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

PORTABLE
ASTRO® Digital Saber

MOBILES
ASTRO® Digital SPECTRA™
ASTRO® Digital SPECTRA Plus™
SPECTRA
XTL™ 5000 (ASTRO® Control Heads)
Motorola Quality...

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

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

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

What’s more, insisting on Motorola Original® accessories
can help increase your productivity. That’s because you can
count on every accessory to do its job time after time.
If you take a chance on a mismatched battery, a flimsy
headset or an ill-fitting carry case, your radio may not
perform at the moment you have to use it.

We’re pleased to bring you this collection of proven
Motorola Original® accessories for your important business
communication needs. You’ll find remote speaker micro-
phones for more convenient control. Carry cases for ease
when on the move. Earpieces to ensure privacy. Headsets
for hands-free operation. High-capacity batteries to extend
work time, and more. They’re all ready to help you work
smarter, harder, with greater confidence.

How the Book is Organized

Motorola Quality

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The Ear Microphone System may be worn with protective masks without reduction in sound clarity. It’s ideal for high-noise environments. Available in PTT, like the one shown here, or with Voice-Activated Module.
Police
Whether in hot pursuit or investigating a cold case, communication can be made much easier with an Ear Microphone System with PTT and VOX Interface Module.

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

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

Security
From crowd control to answering an alarm signaling illegal entry, a Remote Speaker Microphone lets professionals respond instantly without the need to reach for radio controls.
consistent audio quality while you work in digital and analog...

ASTRO® Digital SABER radios work in both digital and analog environments for communication flexibility. All
models are compatible with trunked systems including SECURENET®, SMARTNET Type II, Stat-Alert™ and SmartZone.

Plus, they accept FLASHport™ software upgrades so you can add features as communication needs evolve.

“Yes sir...
I just hoisted the welding machine up in the air, that should keep it safe tonight.”
In the case.
Out of the case.
In. Out.

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

It's no sweat to
communicate in
humid environments
with a water-resist-
ant UHF Public
Safety Microphone
NMN6227B.
Remote Speaker Microphone (RSM)
This Remote Speaker Microphone is water-resistant and allows talking and listening without removing the radio from the belt or case. It has a coiled cord and Push-to-Talk switch. Clothing clip on the microphone back clips securely onto shirt or collar. Ideal for high-noise environments.

NMN6217B* Remote Speaker Microphone with 6-Foot Cord

UHF Public Safety Microphones (PSM)
These water-resistant microphones have a high/low audio switch and straight cord. The external antenna provides additional antenna height for better radiation pattern.

NMN6227B UHF Public Safety Microphone with 30 Inch Straight Cord
NMN6234B UHF Public Safety Microphone with 24 Inch Straight Cord
NMN6236B UHF Public Safety Microphone with 18 Inch Straight Cord

Note: Not compatible with SABER or Systems SABER radios and not recommended for use with VHF. Utilizes the same antenna as the ASTRO SABER, sold separately.

Microphone Antennas for PSM

8505309N09 400-430 MHz Antenna
8505309N10 440-470 MHz Antenna
8505309N11 470-512 MHz Antenna

Velcro Patch
NLN8410A Velcro Patch Pin Attachment. For speaker/microphone assemblies.

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

RLN4294A Epaulet Strap, Velcro
RLN4295A Epaulet Strap, with Clip

Accessory Connector Cover
NTN7081A Universal Connector Cover

*Intrinsically Safe
Surveillance Kits
Surveillance accessories allow the radio user to privately receive messages with the earpiece. They are ideal when environments require discreet communication.

1-WIRE SURVEILLANCE KIT

2-WIRE SURVEILLANCE KITS

3-WIRE SURVEILLANCE KITS

Surveillance Kit Accessory
Surveillance accessories allow the user to receive audio through the earpiece and are ideal when environments require discreet communication. These accessories require adapter NTN5664D (with keyload capability).

NTN5664D Adapter with Keyload Capability

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. Cloth/clip prevents accessory from being pulled from the ear due to body movement or head rotation. For optimal performance, Extra Loud Earphones are recommended for Noise Kits.

NTN8370A Extreme Noise Kit. Includes 2 foam earplugs. For high-noise environments. Can be used with Clear Comfortable Earpieces. Noise reduction = 24dB.
NTN8371A Low Noise Kit - Clear Acoustic Tube Assembly. Includes 1 rubber earplug. For low noise environments, does not provide hearing protection.
508037E91† Extra Loud Earphone. Black.

SURVEILLANCE REPLACEMENT ACCESSORIES
508038F72 Replacement Foam Plugs. Pack of 50. For use with NTN8370A. Noise reduction = 24dB.

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

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

*Intrinsically Safe
†Extra Loud Earphone (exceeds OSHA limits)
Ear Microphone Systems (EMS)

This compact, lightweight unit picks up sound through bone vibrations in the ear. 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 sound clarity. It's ideal for high-noise environments. Available in PTT or Voice-Activated (VOX). Interface Module required, sold separately.

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

OPTIONAL ACCESSORIES FOR THE EMS

- 0180300E25 Earguard with Adjustable Loop
- 0180305B28 Remote Push-to-Talk Ring Switch
- 0180305B28 Remote Push-to-Talk Body Switch
- 4280369E44 Replacement Belt Clip with Screws

*Intrinsically Safe
When seconds count, Motorola Original® Audio Accessories can help assure critical information gets communicated right the first time — quickly, clearly, and accurately.

Security teams know that for dependability and all-day comfort, the Flexible Ear Receiver BDN6717B goes to the head of the class.

Flexible Ear Receiver
This receive-only earpiece contains a flexible earloop and speaker which rests external to the ear. It plugs directly into adapter NTN5664D or the earjack on speaker microphones.

- BDN6717B Flexible Ear Receiver with 2.5mm Plug
- NTN5664D Adapter with Keyload Capability
- 7580372E11 Replacement Foam Ear Cushion for BDN6717B

Adapter NTN5664D required when used without speaker microphones.
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. Can be worn with a helmet or safety glasses as shown right, sold separately.

NMN6050B* Lightweight Headset with Boom Microphone. Can be worn with a helmet or safety glasses. Requires adapter cable NTN5913A.

NTN5913A* Headset Adapter Cable with Bayonet Jack.

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. Heavy-duty headsets require radio adapter cable BDN6640A, sold separately. Hardhat not included.

BDN6645A Push-to-Talk Headset with Boom Microphone
   Requires adapter cable BDN6645A. Noise reduction rating = 24dB.

BDN6635B* Voice-Activated (VOX) Headset with Boom Microphone
   Requires adapter cable BDN6645A. Noise reduction rating = 24dB.

BDN6636B* Voice-Activated (VOX) Headset with Throat Microphone
   Requires adapter cable BDN6645A. Noise reduction rating = 24dB.

BDN6640A* Radio Adapter Cable

*Intrinsically Safe
Leather Carrying Cases
A variety of carrying accessories are available for comfort and convenience. The carrying cases are available in sizes designed to fit radios with a battery and permit audio to be heard clearly. Motorola carry cases were developed to meet the demands of public safety and other users who operate in the most rigorous of environments.

Leather cases are constructed of top grain, 8 ounce leather and all stainless steel hardware. High-activity cases have a swivel D-ring button and belt loop. To remove case from belt loop, rotate case 180 degrees and slide case upward, out of the holder. Case stays on belt more securely in high-activity applications while allowing the radio to swing freely with body movements.

FOR MEDIUM CAPACITY NiCd BATTERIES
- NTN5578A Leather Standard Snap Case with Belt Loop and D-rings
- NTN5644A Leather Swivel Snap Case with D-rings
- NTN7124A High-Activity Leather Swivel Snap Case with D-rings

FOR ULTRA-HIGH CAPACITY NiCd BATTERIES
- NTN7572A Leather Standard Snap Case with Belt Loop and D-rings
- NTN7573A Leather Swivel Snap Case with D-rings
- NTN7847A High-Activity Leather Swivel Snap Case with D-rings
- NTN7572B Nylon Swivel Snap Case with D-rings

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

Carrying Accessories
- T-STRAP
  - NTN7378A Leather Case T-Strap
  - NTN846A Nylon Case T-Strap

- BELT LOOPS
  - 428271006 2.5 Inch Leather Swivel Belt Loop
  - 4205151801 3 Inch Leather Swivel Belt Loop

- HIGH-ACTIVITY BUTTON
  - PHN841A Removable D Button
    Used in conjunction with high-activity belt loop.

- BELT CLIP
  - NTN7389A Removable Belt Clip Attachment

- CARRYING STRAP
  - NTN7243A Adjustable Black Nylon Carrying Strap
    Attaches to D-ring on cases.
Unlike rigid holders, the universal-fit RadioPAk is lightweight and comfortable. An ideal companion for two-way radios, as well as iDEN® portables and cellular phones.

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

- **HLN6602A** Universal Chest Pack with Radio Holder, Pen Holder and Velcro Secured Pouch
- **150596202** 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
- **150596202** 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
- **42B0384F99** RadioPAk Extension Belt
  For waists larger than 40 inches.

**Waterproof Bag**

- **HLN99838** Waterproof Bag with Large Strap

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

- **TDN927A** Portable Radio Hanger for door panels up to 2.75 inches
- **TDN9373A** Portable Radio Hanger for door panels 2.75 to 3.25 inches
Battery Characteristics

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

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

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

**Batteries**

**PREMIUM NICKEL CADMIUM - NiCd**
- NTN4593DR: NiCd, 1100 mAh 7.5 Volt
- NTN4595DR: NiCd, 1800 mAh 7.5 Volt
- NTN4607AR: NiCd, 1100 mAh 7.5 Volt. CSA.
- NTN4538DR: NiCd, 1100 mAh 7.5 Volt. Intrinsically Safe, Submersible.
- NTN4596DR: NiCd, 1800 mAh 7.5 Volt. Intrinsically Safe, Submersible.
- NTN4992CR: NiCd, 1800 mAh 7.5 Volt. Intrinsically Safe, Submersible.

**PREMIUM NICKEL METAL HYDRIDE - NiMH**
- NTN8251AR: NiMH, 1650 mAh 7.5 Volt

**PREMIUM LITHIUM ION - Li-ion**
- NTN8818AR: Li-ion, 1700 mAh 7.5 Volt

**IMPRES™ NiCd 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.

- HNN9033B: NiCd, 2000 mAh 7.5 Volt
- HNN9034B: NiCd, 2000 mAh 7.5 Volt. Intrinsically Safe.
Single-Unit, Rapid-Rate, Universal Chargers

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
- **WPN4001BR** Universal Charger Base with Transformer, 230 Volt, UK Plug

Motorola Conditioning Chargers (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 in the charger for extended periods of time, without worry of heat buildup. Optional accessories are available that allow the MCC to be used in both AC and DC environments - that’s flexibility.

- **WPN4002BR** Base Charge Unit, 110 Volt AC. Adapter plates sold separately.
- **WPN4003AR** Base Charge Unit, 220 Volt AC. Adapter plates sold separately.
- **WPN4009BR** Adapter Plate Only, 7 Volt
- **WPN4010BR** Charger Kit 110 Volt AC, includes Single-Unit base and 7 Volt adapter plate.
- **WPN4011BR** Multi-Unit Conditioning Charger, 4-Station Base, 110 Volt. Adapter plates sold separately.

Vehicular Mounting

**RLN4814A** Vehicular Mounting Bracket and Hard Wire Cable For Single-Unit Motorola Conditioning Chargers

Includes DC Hard Wire Cable 3080384M21, 3080384M21 DC Hard Wire Cable with 3 AH In-line fuse.

Vehicular Power Adapter

3080384G15 Vehicular Power Adapter

Vehicular Adapter Charging Console

AVA/SVA console kits allow use of the portable radio in a mobile application. Antennas sold separately.

- **NTN7227E** AWA/SVA Charging Console. Includes illuminated front control panel, radio charger, locking mechanism with lock and power cables.
- **NSN054A** 12-Watt External Speaker Ideal for high-noise environments, it allows speaker audio to be adjusted from console control panel.
- **HMN1060D** Microphone, Compact Palm
- **HMN1055C** Microphone, Heavy-duty Palm
- **NMN1950A** Microphone with Full-featured Display For use with all SABER Models except StartSite SABER SST/ATS.
IMPRES™ Smart Energy Systems

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

IMPRES™ Single-Unit Chargers
- WPLN4111AR IMPRES Single-Unit Charger, 110 Volt, US Plug
- WPLN4112AR IMPRES Single-Unit Charger, 220 Volt, Euro Plug
- WPLN4113AR IMPRES Single-Unit Charger, 240 Volt, UK Plug
- 5889254E01 Battery Adapter: Required for NTN4538DR, NTN4593DR, NTN7014BR and NTN8818A batteries.

IMPRES™ Multi-Unit Chargers
- WPLN4108BR IMPRES Multi-Unit Charger, 110 Volt, US Plug
- WPLN4109BR IMPRES Multi-Unit Charger, 220 Volt, Euro Plug
- WPLN4110BR IMPRES Multi-Unit Charger, 240 Volt, UK Plug
- 4385922B01 Battery Adapter: Required for NTN4538DR, NTN4593DR, NTN7014BR and NTN8818A batteries.
- NLN7967A Wall Mount for Multi-Unit Chargers

IMPRES™ Multi-Unit Chargers with Display Modules
Charger Display Modules provide powerful, "real time" analyzing information for IMPRES batteries, including current charge status, battery mAh, percent rated capacity and battery voltage. Readout displays battery kit number, serial number and chemistry and the time remaining to complete the charge for NiCd and NiMH batteries. It also forecasts the number of cycles to next reconditioning and more.
- WPLN4130A IMPRES Multi-Unit Charger with Display Modules, 110 Volt, US Plug
- WPLN4131A IMPRES Multi-Unit Charger with Display Modules, 220 Volt, Euro Plug
- WPLN4132A IMPRES Multi-Unit Charger with Display Modules, 240 Volt, UK Plug
- 4385922B01 Battery Adapter: Required for NTN4538DR, NTN4593DR, NTN7014BR and NTN8818A batteries.
- NLN7967A Wall Mount for Multi-Unit Chargers

IMPRES™ Individual Charger Display Module
This module is compatible with the standard IMPRES™ Multi-Unit Charger WPLN4108BR, WPLN4109BR and WPLN4110BR. Up to 8 modules can be used per charger, one for each charging pocket. Includes detailed installation instructions.
- RLN5382A Charger Display Module for IMPRES Multi-Unit Charger Version 1.3 or Later.

Note: Display Modules compatible with Multi-Unit Charger version 1.2 or earlier require a software flash update. Version number is located on label on the bottom of the IMPRES™ Multi-Unit charger. If no version is shown, it is earlier than version 1.2. Version 1.2 will appear as V1.20, 1.3 will appear as V1.30, etc.

IMPRES™ CD
This CD provides an interactive guide to the IMPRES Charging System. It outlines the benefits and gives examples of application usage.
- 0180305J70 IMPRES CD
Battery Maintenance System™ (BMS™)

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

WPLN4079BR 6-Station BMS™, 110 Volt AC, 50/60 Hz, US Plug
WPN4080BR 6-Station BMS™, 230 Volt AC, 50/60 Hz, Euro Plug
WPN4081BR 6-Station BMS™, 230 Volt AC, 50/60 Hz, UK Plug
WPN4085AR BMS™ Li-ion Field Upgrade Kit
Upgrades WPN4079AR, WPN4080AR, WPN4081AR. Allows units to support Li-ion batteries.

NDN4005B 3-Station BMS, 110 Volt AC, 50/60 Hz
Does not support Li-ion or 3-cell batteries.
NDN4006B 3-Station BMS, 230 Volt AC, 50/60 Hz
Does not support Li-ion or 3-cell batteries.

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

Battery Maintenance System™ (BMS™) Adapters

TDN9450A NiCd Adapter, 7.5 Volt
TDN9434A NiCd Adapter, 7.5 Volt. For use with NTN7058AR (SABER R).
WPPN4087AR NiCd and NiMH Adapter, 7.5 Volt
WPPN4091AR Li-ion Adapter. Compatible with Li-ion batteries only.

Battery Optimizing System II (BOS II)

No other battery analyzer matches the speed, accuracy, versatility and ease-of-use of the BOS II in providing powerful analyzing capabilities. Users can select from 12 pre-programmed service programs making it quick and easy to get up and running. Because the BOS II is programmable, users can create custom programs to perform a wide variety of tasks specific to individual needs. New enhancements include new navigation keys and an improved, more intuitive menu system. Regular use of the BOS II can optimize battery performance and help extend battery life, helping reduce battery replacement costs.

WPLN4124AR BOS II, 4-Station, 90-264 Volt AC, US Plug
Adapter Plates Required.
WPLN4125AR BOS II, 4-Station, 90-264 Volt AC, Euro/UK Plug
Adapter Plates Required.
RL71203 BOS II Ruggedized Battery Adapter
RL72703 BOS II Standard Battery Adapter
For use with NTN7058AR (SABER R).

• 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 100mAh to 4 Amps per station
• Programmable adapters allow customization of maintenance routines
• Proprietary reduction cycle restores NiCd and NiMH batteries
• Printer output for reports and labels with computer interface (Includes both 9-pin serial and 25-pin parallel ports)
• 100-Watt Universal Power Supply (110-240 VAC) provides up to 4 amps of power per station
• Interchangeable adapter plates accommodate nearly all Motorola two-way batteries and other major brands
Motorola Heliflex antennas are specifically engineered for maximum output and the greatest communication coverage.

**VHF BAND ANTENNAS**
- 8505644V01 Helical Antenna, 136-150.8 MHz
- 8505644V02 Helical Antenna, 150-162 MHz
- 8505644V03 Helical Antenna, 162-174 MHz

**UHF BAND ANTENNAS**
- 8505241U01 Helical Antenna, 403-433 MHz
- 8505241U04 Helical Antenna, 435-470 MHz
- 8505241U06 Flexible Whip Antenna, 470-520 MHz

**800 MHz BAND ANTENNAS**
- 8505241U03 Flexible Whip Antenna, 806-870 MHz
- NAD600B Dipole Antenna, 806-870 MHz
- 8505241U06 Stubby Quarterwave Antenna, 806-870 MHz
Public Safety
Keeping people away from potential dangers is a task made easier with Siren and Public Address capabilities on board each vehicle.

Customer Service
One day you’re in the field. The next day has you behind a desk. Control Station Accessories make it easy to convert your radio for inside use.

Private Transportation
Maximizing passenger safety is a number one priority, and an Emergency Switch is a ready solution when an alarm or help message needs to be sent.

Delivery Fleets
Hear one number wrong, and an important package won’t get where it’s needed on time. An External Speaker can help make everything clear under noisy conditions.

Helping keep people away from potential dangers is a task made easier with Siren and Public Address Kit H1336B capabilities on board each vehicle.
convenient operation in both digital and analog environments...

ASTRO® Digital SPECTRA™, ASTRO® Digital SPECTRA Plus™ and SPECTRA mobile radios offer multiple modes of operation in a compact, space-saving footprint. All models support Remote Control operation and accept FLASHport™ software upgrades so you can add features as your communication needs evolve.
**Audio and Control Station**

**Microphones and Accessories**
- HMN1080A Standard Palm Microphone
- HMN1053B DTMF Microphone
- 5084898K0 Noise Cancelling Microphone
- HMN1081A Palm Microphone
  - For use with Astro Digital Spectra W9 radio.
- HLN1220B Handset with Hang Up Box
- HMN1079A Water-Resistant Palm Microphone

**Siren and Public Address Kit**
- H1336B Siren/Public Address Kit
  - Provides controlled tones for hi/low, yelp and airhorn through supplemental housing.

**Siren and Public Address Speakers**
- TDN6251A Siren Speaker
  - Round with Chrome Finish
- TDN6252A Siren Speaker
  - Rectangular with Chrome Finish
- TDN6253A Siren Speaker
  - Underhood with Grey Finish
- TDN6254A Siren Speaker
  - Round with Grey Finish

**External Speaker**
- Provides audio for high ambient noise environments.
- HSN4018B External Speaker
Control Station Accessories

HPN4007A  Control Station Power Supply, High Power
HKN4139A  Power Cable
HLN6042A  Control Station Tray
HMN1050D  Desktop Microphone

Emergency Foot Switch

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

HLN5113B  Emergency Foot Switch

Quick Release Side Mount and Accessories

RLN4074A  Quick Release Side Mount Kit
Includes radio and vehicle mount, mounting hardware.
RLN4075A  Radio Mount with Hardware
RLN4076A  Vehicle Mount with Hardware
RLN4077A  Angle Bracket. Features 20 Degrees Fixed and 50 Degrees Swivel Angle.
RLN4078A  Flat Bracket with 50 Degrees Swivel Angle.

Miscellaneous Hardware

HEN6025A  Key Lock Mount
HEN6003A  Remote Mount Kit with 17-Foot Cable

The Emergency Foot Switch HLN5113B enables the user to send an emergency message to a desktop console.
A communication system is only as good as the mobile antennas used to transmit and receive — so whenever lives are on the line, Motorola Original® accessories should be the go-to choice.

### Antennas

**800 MHz**
- **HAF4002A** 806-900 MHz, 1/4 Wave Roof Mount Antenna
- **RRA4983A** 806-900 MHz, 3dB Roof Mount Antenna

**900 MHz**
- **RRA4935A** 890-960 MHz, 3dB Roof Mount Antenna with 14 ft. Cable
- **RAF4003ARM** 890-960 MHz, 3dB Roof Mount Antenna with 22 ft. Low Loss Cable

**VHF**
- **HAD4006A** 136-144 MHz, 1/4 Wave, Roof Mount Antenna
- **HAD4007A** 144-152 MHz, 1/4 Wave, Roof Mount Antenna
- **HAD4008A** 150.8-162 MHz, 1/4 Wave, Roof Mount Antenna
- **HAD4009A** 162-174 MHz, 1/4 Wave, Roof Mount Antenna
- **RAD4010ARB** 136-174 MHz, 3dB, Roof Mount Antenna

**UHF**
- **HAE4002A** 403-430 MHz, 1/4 Wave, Roof Mount Antenna
- **HAE4003A** 450-470 MHz, 1/4 Wave, Roof Mount Antenna
- **HAE4004A** 470-512 MHz, 1/4 Wave, Roof Mount Antenna
- **HAE4010A** 406-420 MHz, 3.5dB, Roof Mount Antenna
- **HAE4011A** 450-470 MHz, 3.5dB, Roof Mount Antenna
- **HAE4012A** 470-495 MHz, 3.5dB, Roof Mount Antenna
- **HAE4013A** 494-512 MHz, 3.5dB, Roof Mount Antenna
Low Profile Antennas

**UHF**
- RAE4162A White 410-430 MHz, 3dB Gain Antenna
- RAE4163A Black 410-430 MHz, 3dB Gain Antenna
- RAE4164A Black 430-450 MHz, 3dB Gain Antenna
- RAE4165A White 430-450 MHz, 3dB Gain Antenna
- RAE4166A Black 470-490 MHz, 3dB Gain Antenna
- RAE4167A White 470-490 MHz, 3dB Gain Antenna
- RAE4168A Black 450-470 MHz, 3dB Gain Antenna
- RAE4169A White 450-470 MHz, 3dB Gain Antenna

**VHF**
- RAD4207A White 150-168 MHz, Unity Gain Antenna
- RAD4208A Black 150-168 MHz, Unity Gain Antenna
- RAD4209A Black 142-160 MHz, Unity Gain Antenna
- RAD4210A White 142-160 MHz Unity Gain Antenna

**800 MHz**
- RAF4217A White 821-896 MHz, 3dB Gain Antenna
- RAF4218A Black 821-896 MHz, 3dB Gain Antenna
- RAF4219A Black 806-866 MHz, 3dB Gain Antenna
- RAF4220A White 806-866 MHz, 3dB Gain Antenna

Low Profile Antennas Kits
Includes 3/4 Brass Mount and 17-foot RG58U Solid Center Conductor Cable.

**UHF**
- RAE4162ARB White 410-430 MHz, 3dB Gain Roof Mount Antenna
- RAE4163ARB Black 410-430 MHz, 3dB Gain Roof Mount Antenna
- RAE4164ARB Black 430-450 MHz, 3dB Gain Roof Mount Antenna
- RAE4165ARB White 430-450 MHz, 3dB Gain Roof Mount Antenna
- RAE4166ARB Black 470-490 MHz, 3dB Gain Roof Mount Antenna
- RAE4167ARB White 470-490 MHz, 3dB Gain Roof Mount Antenna
- RAE4168ARB Black 450-470 MHz, 3dB Gain Roof Mount Antenna
- RAE4169ARB White 450-470 MHz, 3dB Gain Roof Mount Antenna

**VHF**
- RAD4207ARB White 150-168 MHz, Unity Gain Roof Mount Antenna
- RAD4208ARB Black 150-168 MHz, Unity Gain Roof Mount Antenna
- RAD4209ARB Black 142-160 MHz, Unity Gain Roof Mount Antenna

Antenna Mounts

- 3080384M44 Black Magnetic With 12 ft. of RG58A/U Cable, Mini-UHF Crimp
- 3080384M45 Chrome Magnetic With 12 ft. of RG58A/U Cable, Mini-UHF Crimp
- 3080384M46 Chrome Trunk Mount With 17 ft. of RG58A/U Cable, Mini-UHF Crimp
- 3080384M47 Black Trunk Mount With 17 ft. of RG58A/U Cable, Mini-UHF Crimp
- 3080384M48 3/4 Roof Mount With 17 ft. of RG58A/U Cable, Mini-UHF Crimp
Public Safety
Keeping people away from potential dangers is a task made easier with Siren and Public Address capabilities on board each vehicle.

Customer Service
One day you’re in the field. The next day has you behind a desk. Control Station Accessories make it easy to convert your radio for inside use.

Private Transportation
Maximizing passenger safety is a number one priority, and an Emergency Switch is a ready solution when an alarm or help message needs to be sent.

Delivery Fleets
Hear one number wrong, and an important package won’t get where it’s needed on time. An External Speaker can help make everything clear under noisy conditions.
multiple frequencies aid operation in congested urban areas...

XTL™ 5000 (ASTRO® Control Heads) mobile radios can deliver optimum 512 channel operation in VHF, UHF and 700/800 MHz bands. That's why they're so often the radio of choice under crowded conditions and wider country regions alike. All models are capable of integrated voice and data service and accept FLASHport™ software upgrades so you can add features as your communication needs evolve.
Microphones and Accessories
- HMN1081A Palm Microphone
  For use with W9 Radio.
- HMN1079A Water-Resistant Palm Microphone
- HMN1080A Standard Palm Microphone

Speakers for Siren and Public Address Kits
- TDN6251A Siren Speaker
  Round with Chrome Finish
- TDN6252A Siren Speaker
  Rectangular with Chrome Finish
- TDN6253A Siren Speaker
  Underhood with Grey Finish
- TDN6254A Siren Speaker
  Round with Grey Finish

Sirens/ DEK
- H1359B Mobile Siren/PA (includes DEK)
- H1502B Siren PA (does not include DEK)
- H1399A 8 Status/Message
  Message buttons included, only applicable for Systems 3.X and Earlier.

External Speaker
Provides audio for high ambient noise environments.
- HSN4018B External Speaker
Control Station Accessories

- HMN1050D Desktop Microphone
- HPN4007A Control Station Power Supply
- HKN4139A Power Cable
- HLN6042A Control Station Tray
- HLN5113B Emergency Foot Switch

Emergency Foot Switch

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

Miscellaneous Hardware

- HLN6025A Key Lock Mount
- HLN6008A Remote Mount Kit with 17-Foot Cable

Control Station accessories make the XTL 5000 (ASTRO Control Heads) mobile a desktop command center. From left to right are Desktop Microphone HMN1050D, Control Station Power Supply HPN4007A, High Power Cable HKN4139A and Control Station Tray HLN6042A.
A communication system is only as good as the mobile antennas used to transmit and receive — so whenever lives are on the line, Motorola Original® accessories should be the go-to choice.

### Adapter Cables
These adapter cables allow 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).

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>HKN6158A</td>
<td>Audio Cable Adapter</td>
</tr>
<tr>
<td>HKN6159A</td>
<td>Adapter Cable Data</td>
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</table>

### Power Cables

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>HKN4191B</td>
<td>10-Foot Low-Mid Power Cable</td>
</tr>
<tr>
<td>HKN4192B</td>
<td>20-Foot Low-Mid Power Cable</td>
</tr>
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</table>

### Remote Mount Cables

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
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<tbody>
<tr>
<td>YKN4201A</td>
<td>10-Foot Front Control Head Cable</td>
</tr>
<tr>
<td>YKN4246A</td>
<td>30-Foot Front Control Head Cable</td>
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<tr>
<td>YKN4248A</td>
<td>50-Foot Front Control Head Cable</td>
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<td>YKN4249A</td>
<td>75-Foot Front Control Head Cable</td>
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<tr>
<td>YKN4255A</td>
<td>115-Foot Front Control Head Cable</td>
</tr>
<tr>
<td>YKN4256A</td>
<td>150-Foot Front Control Head Cable</td>
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</table>

### Remote Mount Kits

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>H18003A</td>
<td>Remote to Dash Mounting Kit</td>
</tr>
<tr>
<td>H18004A</td>
<td>Dash to Remote Mounting Kit</td>
</tr>
</tbody>
</table>
### Antennas

**VHF**
- **HAD4006A** 136-144 MHz 1/4 Wave Roof Mount Antenna
- **HAD5007A** 144-152 MHz 1/4 Wave Roof Mount Antenna
- **HAD4008A** 152-162 MHz 1/4 Wave Roof Mount Antenna
- **HAD4009A** 162-174 MHz 1/4 Wave Roof Mount Antenna

**UHF**
- **HAE6012A** 380-420 MHz 1/4 Wave Roof Mount Antenna
- **HAE4003A** 450-470 MHz 1/4 Wave Roof Mount Antenna
- **HAE6010A** 380-420 MHz 3.5dB Gain Roof Mount Antenna
- **HAE4012A** 450-470 MHz 3.5dB Gain Roof Mount Antenna
- **HAE4011A** 380-420 MHz 5.0dB Gain Roof Mount Antenna
- **HAE4014A** 450-470 MHz 5.0dB Gain Roof Mount Antenna
- **HAE6013A** 380-470 MHz Wideband 700/800 MHz Antenna

**700/800 MHz**
- **HAF4013A** 762-870 MHz 3dB Gain Low Profile Antenna
- **HAF4014A** 762-870 MHz 3dB Gain Elevated Feed Antenna
- **HAF4015A** 762-870 MHz 3dB Gain Motorcycle Antenna
- **HAF4016A** 762-870 MHz 1/4 Wave Roof Mount Antenna
- **HAF4017A** 762-870 MHz 3dB Gain Collinear Roof Mount Antenna
- **HAF4018A** 762-870 MHz Low Profile Motorcycle Antenna
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