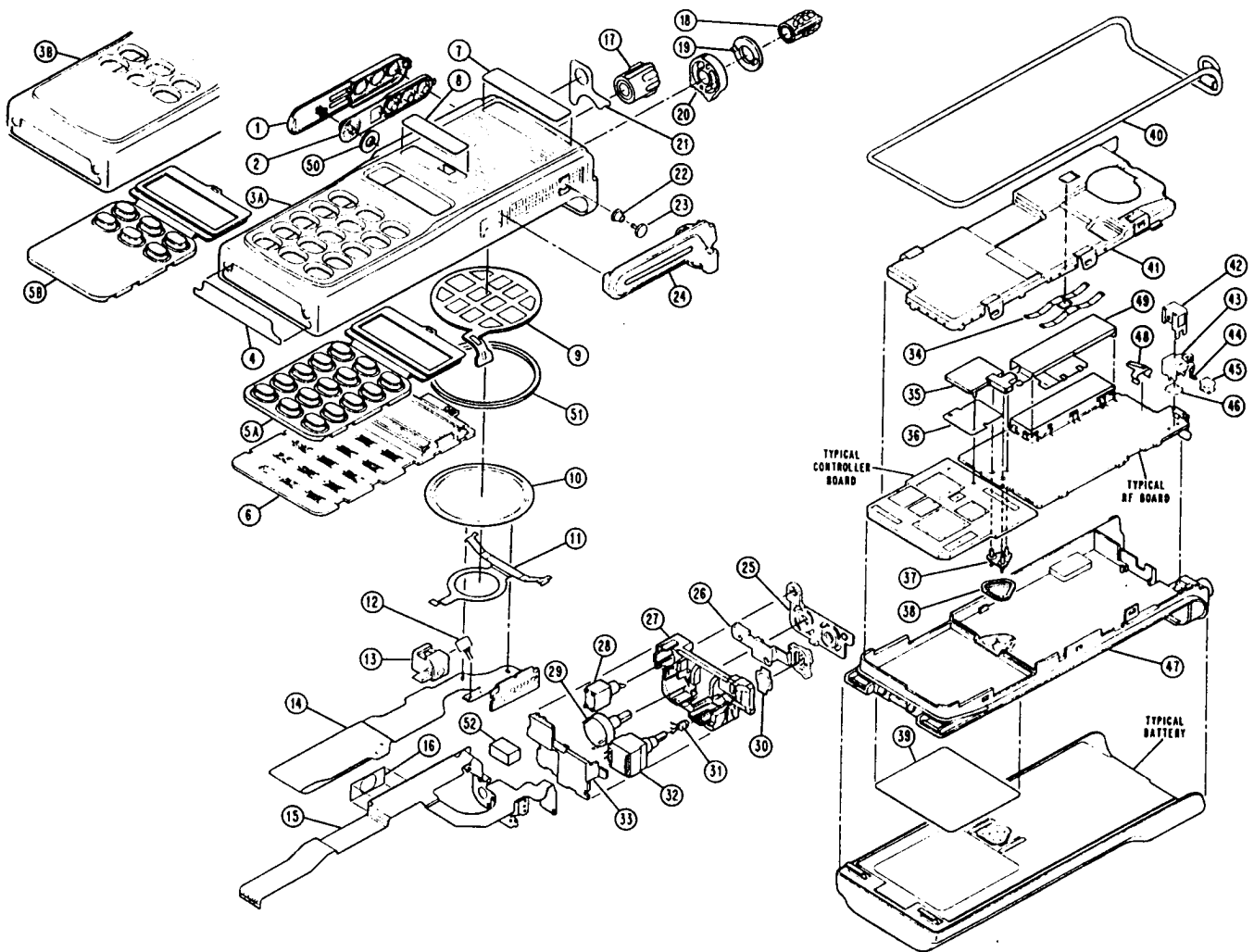


# MTX9000 Series



## Parts List



# MTX9000 Series

## Parts List

REF. NO.	PART NO.	DESCRIPTION	REF. NO.	PART NO.	DESCRIPTION
1	<b>4505896U02</b>	Lever, PTT	30	<b>3905329W01</b>	Popples, Emergency Button
2	<b>3205902U01</b>	Seal, PTT, and Actuator for S404, S405, S406, and S408	31	See Note 1	LED (CR702A/CR702B) – not available
3A	<b>1505637V04</b>	Cover, Front; Full Keypad	32	See Note 1	Switch, Frequency (S401) – not available
3B	<b>1505637V05</b>	Cover, Front; Limited Keypad	33	<b>1505632V01</b>	Cover, Switch Housing
4	----	Label, Agency Approval; not field replaceable	34	----	Spring, PA; not field replaceable, order front shield (item 41)
5A	<b>7505870U01</b>	Keypad, 15-key	35	<b>4205507X01</b>	Strain Relief
5B	<b>7505870U02</b>	Keypad, 6-key	36	<b>8405247V01</b>	FLEX, Jumper
6	<b>5105238U83</b>	Module, Display	37	See Note 2	Plug, Connector (P404) – not available
7	<b>3305183R55</b>	Label, Motorola	38	<b>3205820V01</b>	Seal, Connector Plug
8	<b>3305183R73</b>	Label, MTX9000	39	----	Label, Rear; Information; not field replaceable
9	<b>3305535X02</b>	Felt, Speaker	40	<b>3205176Z01</b>	“O” Ring, Contoured/Seal, Antenna
10	See Note 1	Speaker (LS401) – not available	41	<b>2605891U02</b>	Shield, Front
11	<b>0705470V01</b>	Bracket, Speaker Retainer	42	<b>4005831W01</b>	Bracket, RF Switch
12	See Note 1	Microphone (MK401) – not available	43	----	Housing, RF Switch
13	<b>1405330W02</b>	Boot, Microphone	44	<b>4105266V01</b>	Spring, RF Switch
14	<b>8405310W04</b>	FLEX, Front Cover/Display	45	<b>4405524V01</b>	Piston, RF Switch
15	<b>8405333W03</b>	FLEX, Controls	46	----	Circuit Board, RF Switch
16	<b>3905517V01</b>	Popples, PTT (p/o S406)	47	<b>1505892U06</b>	Chassis (Rear Cover)
17	<b>3605253V01</b>	Knob, On/Off/Volume	48	<b>3905838V01</b>	Contact, Antenna Shield Ground (800 MHz and 900 MHz radios only)
18	<b>3605636V01</b>	Knob, Frequency	49	<b>2605898U01</b>	Shield, PA (800 MHz and 900 MHz radios only)
19	<b>1305633V01</b>	Ring, Concentric; Escutcheon	50	<b>0405717W01</b>	Washer, PTT Seal
20	<b>3605635V01</b>	Knob, Concentric Ring	52	<b>7505393N33</b>	Pad, Shock
21	<b>1305698V01</b>	Escutcheon, Control Top			
22	<b>3205160W01</b>	Seal, Actuator; for S101			
23	<b>2205159W01</b>	Pin, Actuator; for S101			
25	<b>3205177Z01</b>	Seal, Control Top			
26	<b>3905329W01</b>	Seal, Emergency Button			
27	<b>2705877U01</b>	Housing, Switch			
28	See Note 1	Switch, Toggle (S402) – not available			
29	See Note 1	Potentiometer/Switch, On/Off/Volume Control (R401/S403) – not available			

### NOTES:

1. Refer to electrical parts list (miscellaneous) for part number and complete description.
2. Refer to electrical parts list (transceiver board) for part number and complete description.

## MTX9000 Series



## Portable Accessories

### Chargers

Single unit chargers are available in either desktop or compact styles for small system users. Multiple unit chargers can be wall or rack mounted and are ideal for multi-shift operations. All chargers are specifically designed to meet the requirements of batteries manufactured by Motorola. All chargers listed are rapid rate and will fully charge your battery in less than 3 hours.

#### **Single Unit Compact Bi-Chemistry Chargers – Rapid Rate**

The bi-chem charger has the power supply built into the line cord giving the user a smaller base unit for easier storage. It also utilizes an enhanced charging algorithm that will help maximize the life of your batteries. It will rapid rate charge both NiCd and NiMH batteries.

**RPX4747A** Compact Bi-Chem Charger, 110V

**RPX4748A** Compact Bi-Chem Charger, 230V Euro plug

**RPX4749A** Compact Bi-Chem Charger, 230V UK plug

### Chargers

#### **Multiple Unit Charger (MUC)**

Multi-unit chargers offer six pockets that can be used to rapid charge 1 to 6 batteries simultaneously. The batteries can be charged with the radios or separately. They will rapid rate charge both NiCd and NiMH batteries.

**NTN1177D** Six-Pocket, rapid rate 110V

**NTN1178D** Six-Pocket, rapid rate, 220V (supplied with 2 prong cord)

**NTN1179D** Six-Pocket, rapid rate, 240V (supplied with 3 flat prong cord)



NTN1177D

#### **MUC Accessories**

**NLN7967A** Wall Mount

#### **Travel Charger**

**RLN4884A** Travel Charger kit includes a cigarette lighter adapter attached to a rapid charger and mounting bracket. Allows radio to be used while it is charging.



RLN4884A

#### **Travel Charger Mounting Bracket**

**0780384K84** Universal Mounting Bracket for Travel Charger. Includes screws and nylon cord.

#### **Travel Charger AC Transformer**

Travel charger AC transformer adapts onto the cigarette lighter adapter cord to allow it to be plugged into an AC wall outlet for indoor use

**2580600E05** Transformer 120V (US)

**2580600E06** Transformer 230V (Euro)

**2580600E07** Transformer 230V (U.K.)

**2580600E08** Transformer 220V (Argentina)

## MTX9000 Series

## Portable Accessories

### Motorola Conditioning Charger (MCC)

The MCC will help extend battery life and enhance battery operation. It will safely condition and charge your specified nickel cadmium (NiCd) and nickel metal hydride (NiMH) batteries in approximately an hour.

**WPLN4090BR** MCC Kit, 110V AC; includes both base unit and 7V adapter

**WPLN4091BR** MCC Kit, 220V AC; includes both base unit and 7V adapter

**WPPN4002BR** 110V AC Base Charge Unit Only (order adapter plate separately)

**WPPN4006AR** 220V AC Base Charge Unit Only (order adapter plate separately)

**WPPN4065BR** Multi-Unit Conditioning Charger Four Station Base 110V (order adapter plate separately)

**WPPN4004BR** 7 Volt Adapter Only

**3080384G15** Cigarette Lighter Adapter Cord; MCC multi-unit conditioning charger

**RLN4814A** Vehicular Mounting Bracket for single unit Motorola Conditioning Charger

**3080384M21** DC Hard wire cable for vehicular installation (included in RLN4814A)



WPPN4002BR

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

#### Increase the useful life of your batteries.

Using interchangeable battery adapters (sold separately), the BMS<sup>plus</sup> is capable of charging and discharging, analyzing, conditioning and cycle test on batteries; tracking battery voltage and capacity (mAh).

The BMS<sup>plus</sup> offers a 3 year warranty. Its easy-to-use design supports hundreds of 2-way, cellular, and camcorder batteries with printer port\* (Serial-RS-232C port – uses female 9-pin to male 25-pin cable).



WPLN4079BR

**WPLN4079BR** Six-Station, 110V AC, 50/60 Hz

**WPLN4080BR** Six-Station, 230V AC, 50/60 Hz

**WPPN4085AR** BMS Plus field upgrade kit for WPLN4079AR, WPLN4080AR and WPLN4081AR allows these units to support Li-ion battery chemistries

**NDN4005B** Three-Station 110V AC, 50/60 Hz

**NDN4006B** Three-Station 230V AC, 50/60 Hz

#### BMS<sup>plus</sup> Adapter

**TDN9435C** Adapter Compatible with NiCd Batteries Only

**CDN6364A** Adapter Compatible with Both NiCd and NiMH Batteries



TDN9435C

\*Compatible with the STAR Micronics SP200 series printers, available from any STAR Micronics distributor, and other printers with STAR emulation.

## MTX9000 Series

### Portable Accessories

#### Battery Optimizing System II (BOS II)



WPLN4124AR

No other battery analyzer matches the speed, accuracy, and versatility of the Battery Optimizing System II. Ideal for large fleet, public safety, and all other users who rely on their battery performance. Now with increased power, more sophisticated programming options, and easier to use navigation paths, optimizing your batteries was never easier. Key features include:

- Support for NiCd, NiMH, Li-ion, and SLA batteries
- 100 watt power supply and programmable from 100 mA to 4 amps per station
- Interchangeable adapters accommodate all major brands
- Includes a variety of user programs and allows for customizable programming
- Proprietary recondition cycle restores NiCd and NiMH batteries
- Increased processing power and testing resolution – including a three minute Quicktest that measures the batteries State of Health (SoH)
- Printer output for reports and labels
- Three year warranty

**WPLN4124AR** BOS II, Four-Station, 100-240V AC (US line cord)

**WPLN4125AR** BOS II, Four-Station, 100-240V AC (UK/Euro line cords)

#### **BOS II Adapter**

**RL-72403** Standard Adapter

#### impres™ Smart Energy System



WPLN4111AR

The impres smart energy system ensures maximum talk-time and optimized battery cycle life through the use of its advanced charging algorithm and automatic reconditioning features. The smart energy system reconditions impres batteries when they need it, automatically, keeping them in peak condition. It's 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 rob batteries of cycle life. In addition, batteries left on the charger are kept fully charged so they are always ready when you need them. The impres system reconditions batteries when they need it based on their usage pattern. Talk time and cycle life are optimized and the need for manual maintenance programs reduced or eliminated. This rapid-rate tri-chemistry charging system will also charge existing legacy batteries and supports multiple radio platforms including Saber, XTS, and HT1000 series portables.

**WPLN4111AR** impres single unit charger

**WPLN4108BR** impres multi unit charger

#### **impres™ Multi-Unit Charger with Display Modules**

The impres Multi-Unit Charger with Charger Display Modules has a two-line LCD screen for each of its six charger pockets that provides users with a host of valuable battery information. When a calibrated impres battery is inserted into a pocket, it provides the current battery mAh and percent of rated capacity which allows the user to immediately know the status of the battery without having to charge and discharge the battery. Additionally, the unit displays the remaining charge time which lets the user know when the impres battery will be ready for use. Additional information displayed includes: battery serial and part number information, battery chemistry, voltage and charge status including the version of the charger and display modules.

**WPLN4130AR** Multi-Unit Charger with Display Modules

**RLN5382A** Charger Display Module for impres multi-unit charger version 1.3 or later

**RLN5591A** Charger Display Module for impres multi-unit charger version 1.2 or earlier. (Requires unit to be sent to the Rockford Service Center – instruction sheet provided)



WPLN4130AR

## MTX9000 Series

## Portable Accessories

### impres™ Smart Energy System

#### impres™ Bundle Packs

Provide significant savings on the impres products by bundling a charger and batteries together as a smart energy system package.

**RLN5265A** impres™ single unit charger with two HNN9029AR batteries

**RLN5266A** impres™ single unit charger with two HNN9028AR batteries

**RLN5439B** impres™ multi unit charger with six HNN9029AR batteries

**RLN5440B** impres™ multi unit charger with six HNN9028AR batteries

### Vehicular Charger

This 12V DC charger is ideal for mobile customers; it charges portable radio NiCd batteries in rapid charge mode (in less than 3 hours) until full charge is obtained and then switches to trickle charge mode. A microprocessor controls the charge rate. This durable unit comes with a metal mounting bracket and is PAC-RT compatible.



TDN9816A

**TDN9816A** Vehicular Charger

### Carrying Accessories

#### Carrying Cases

A variety of carrying accessories are available for your comfort and convenience. The carrying cases are available in sizes designed to fit your radio & battery and permit audio to be heard clearly.

#### Standard Belt Loop Carrying Cases



NTN7247A

**NTN7238A** Leather Carry Case with Belt Loop and T-Strap for use with high capacity battery

**NTN7239A** Leather Carry Case with Belt Loop and T-Strap for use with ultra-high capacity battery

**NDN4018B** DTMF Leather Carry Case with Belt Loop for use with high and ultra-high capacity batteries

**NTN7247A** Nylon Carry Case with Belt Loop and Strap for use with high and ultra-high capacity batteries

#### High Activity Swivel Carrying Cases

The following carrying cases have a high activity swivel "D" 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 versus standard swivel cases while allowing the radio to swing freely with body movements.

**NTN8035B** Leather Carry Case with 2.5" High Activity Swivel Belt Loop and T-Strap for use with high capacity battery

**NTN8037B** Leather Carry Case with 3.0" High Activity Swivel Belt Loop and T-Strap for use with high capacity battery

**NTN8036B** Leather Carry Case with 2.5" High Activity Swivel Belt Loop and T-Strap for use with ultra-high capacity battery



NTN8036B

# MTX9000 Series

## Portable Accessories

### Carrying Accessories



NTN8038A

**NTN8038B** Leather Carry Case with 3.0" High Activity Swivel Belt Loop and T-Strap for use with ultra-high capacity battery

**NDN4017B** DTMF Leather Carry Case with 3.0" High Activity Swivel Belt Loop and Antenna Strap for use with high and ultra-high capacity battery

#### T-Strap

**NTN7782A** T-Strap for leather Carry Cases

**NTN7376A** T-Strap for nylon carry cases

#### Belt Clips

**4205638V07** 3" Belt clip

**4205638V09** 2.5" Belt clip

#### Belt Loops

**NTN8039B** 2.5" High Activity Swivel Belt Loop

**NTN8040B** 3.0" High Activity Swivel Belt Loop

**NTN1534A** High-activity "D" button and 2.5" belt loop

**NTN1535A** High-activity "D" button and 3.0" belt loop

**NTN8063A** "D" Button, High-activity



4200865599

#### Belt

**4200865599** 1.75" Wide Black Belt



NTN5243A

#### Carrying Strap

**NTN5243A** Shoulder Carry Strap, allows easy carrying of radio in a case when not wearing a belt

#### Waterproof Bag

**HLN9985B** Waterproof bag includes large carrying strap

### Carrying Accessories

#### Swiveller

**TDN9684A** Swiveller, includes clip button, holster and belt



TDN9684A

#### Swiveller Replacement Accessories

**TDN9690A** Clip button, mounts on battery

**TDN9688A** Holster, compatible with all buttons

**TDN9687A** Belt, 2" nylon



TDN9687A

#### Portable Radio Hanger

The portable radio hanger slides over and hangs from the door panel in a vehicle. The radio's belt clip slides onto the portable hanger allowing convenient, easy mounting. Two sizes are available to fit door panels.

**TDN9327A** Portable Radio Hanger for door panels up to 2.75"



TDN9327A

**TDN9373A** Portable Radio Hanger for door panels up to 3.25"

#### Universal Holders

**RLN4943A** Universal holder with gooseneck bracket

**RLN4944A** Wheelchair quick release assembly

**RLN4945A** Universal holder with gooseneck bracket and wheelchair quick release assembly

# MTX9000 Series

## Portable Accessories

### Carrying Accessories

#### Chest Pack

Carry the radio mounted on chest with adjustable straps over shoulders and around waist.

**HLN6602A** Universal Chest Pack with Radio Holder, Pen Holder, and Velcro Secured Pouch

**1505596Z02** Replacement Strap for HLN6602A



HLN6602A

#### Break-A-Way Chest Pack

All of the same features as the original chest pack (HLN6602A) plus break-away tabs that allow the entire pack to be pulled off with approximately 10 lbs. of pressure. Perfect for railroads, manufacturing locations, construction sites and anywhere safety is a concern.

**RLN4570A** Break-A-Way Chest Pack



RLN4570A



#### RadioPAK™

**RLN4815A** Universal RadioPAK™ with Radio Holder. Worn around waist with adjustable belt. Includes attached 6" by 8" zippered pouch for other job necessities.

**4280384F89** Universal RadioPAK™ belt lengthener; fits waists larger than 40"

### Audio Accessories

#### Remote Speaker Microphones (RSM)

Allows you to talk and listen without removing the radio from the belt case or charger. Ideal for high noise level environments. These water resistant microphones include coil cord, 3.5mm earjack, swivel clothing clip and quick disconnect latch.

**\*NMN6193B**

Remote Speaker Microphone

**\*NMN6191C** Noise Cancelling Remote Speaker Microphone



NMN6193B

**0104010J46** Replacement Coil Cord Cable Assembly for Remote Speaker Microphones

**RLN5002A** MicJacket Kit; compatible with NMN6191 and NMN6193 remote speaker microphones

#### Public Safety Speaker Microphones (PSM)

Public Safety Speaker Microphones include straight cord assembly, 3.5mm earjack, swivel clothing clip, quick disconnect latch, antenna connector, and receiver, audio high/low volume push button. Antenna must be ordered separately. Use radio antennas on page 333.

**\*NMN6228C** 30" Noise-Cancelling Public Safety Speaker/Microphone, straight cord

**\*NMN6243B** 18" Noise-Cancelling Public Safety Speaker/Microphone, straight cord

**\*NMN6244B** 24" Noise-Cancelling Public Safety Speaker/Microphone, straight cord

**0104004J29** 30" Public Safety Microphone Cable

**0104004J46** 18" Public Safety Microphone Cable

**0104004J47** 24" Public Safety Microphone Cable

**REX4410C** PTT Paddle Replacement Lit for Remote and Public Safety Microphones

**RLN5004A** MicJacket Kit; compatible with NMN6228, NMN6243 and NMN6244 remote speaker microphones

\* Intrinsically safe



# MTX9000 Series

## Portable Accessories

### Audio Accessories

#### RSM Accessories

##### Epaulet Strap

Black leather epaulet strap secures remote speaker microphone to epaulet straps on shirt or jacket and accommodates back clip in leather cut-outs. Snap closure secures remote speaker microphone cord to allow reliable communications in hostile environments.

**RLN4294A** Epaulet Strap, Velcro

**RLN4295A** Epaulet Strap, small clip



##### Audio Accessories for the RSM

Plugged into the 3.5mm earjack on the RSM audio adapter, these audio accessories will mute the speaker on the RSM allowing the user to discretely hear all incoming messages. Ideal for noisy environments. The following audio accessories can also be plugged directly into the radio with the BDN6676D audio adapter.

**BDN6781A** Pellet Style Earpiece

**BDN6719A** Flexible Ear Receiver

##### Headsets for the RSM and PSM

**RMN4056B** Receive-Only Dual Muff Headband Style Headset; provides 24dB of noise reduction; for use with all Remote and Public Safety Microphones with a 3.5mm threaded jack (can be plugged directly into radio with BDN6676D adapter)

**RMN4057B** Receive-Only Hardhat Mount mounts easily to hardhats with slots and provides 22dB of noise reduction; for use with all Remote and Public Safety Microphones with a 3.5mm threaded jack (can be plugged directly into radio with BDN6676D adapter)

**RLN4923A** Replacement Earseals for RMN4056A and RMN4057A

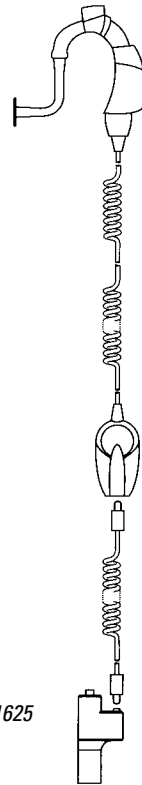


### Audio Accessories

#### CommPort: Integrated Microphone/Receiver System

CommPort system contains a miniature microphone and receiver, and connects to your two-way radio, making it possible to hear and speak under the most adverse conditions.

**\*NTN1624A** Integrated Ear Microphone/Receiver System w/Palm PTT (includes BDN6676D 3.5mm Jack Adapter)



**\*NTN1625A** Integrated Ear Microphone/Receiver System with PTT on radio adapter (includes BDN6676D 3.5mm Jack Adapter)

**\*NTN1663A** Integrated Ear Microphone/Receiver System with Ring PTT (includes BDN6676 3.5mm Jack Adapter)

NTN1625

# MTX9000 Series

## Portable Accessories

### Audio Accessories

- NNTN4186A** CommPort(TM) Integrated Microphone/Receiver with Body PTT
- NTN1736A** CommPort integrated microphone/receiver with snap on side PTT
- NNTN4188A** Replacement Remote Push-to-Talk Body Switch
- NKN6510A** Replacement Cable for NTN1624
- NKN6508A** Replacement Cable for NTN1625
- NKN6512A** Replacement Cable for NTN1663
- NKN6525A** Replacement cable with snap on side PTT
- NTN8821A** CommPort Maintenance Kit, Includes Replacement Ear Tubes (Quantity 10), Windscreens (Quantity 2) and Microphone Seal Strips (Quantity 10)
- NTN8986A** Adhesive Pads (Quantity 90) for secure attachment to ear
- NTN8988A** Ear Straps (Quantity 10), for secure attachment to ear
- 4285838B01** Replacement Collar Clip
- 4202006A01** Replacement Back Cover Clip
- RLN5037A** Replacement Ear tubes (Quantity 10)

### Audio Accessories

#### Surveillance Accessories

Surveillance accessories allow the user to privately receive communications with the earpiece and are ideal when environments require discrete communications.

The following surveillance accessories require the BDN6676D (3.5 mm threaded adapter jack) that attaches to the radio, unless being used with speaker/microphone.

Receive-only Surveillance Kit (1-Wire)

- \***BDN6664A** Beige
- \***BDN6665A** Beige
- BDN6726A** Black
- BDN6727A** Black



Receive-only Surveillance Kit with Volume Control (1-Wire)

- \***BDN6666A** Beige
- BDN6728A** Black



Surveillance Kit with Microphone and Push-To-Talk Combined (2-Wire)

- \***BDN6667A** Beige
- \***BDN6669A** Beige
- BDN6729A** Black
- BDN6731A** Black



Surveillance Kit with Microphone and Push-To-Talk Separate (3-Wire)

- \***BDN6668A** Beige
- \***BDN6670A** Beige
- BDN6730A** Black
- BDN6732A** Black
- \***BDN6676D** 3.5mm Jack Adapter with Quick Disconnect Latch



\* *Intrinsically safe*

# MTX9000 Series

## Portable Accessories

### Audio Accessories

#### Surveillance Kit Replacement Accessories

**5080369E38** Standard Earpiece Assembly, includes earphone, earloop and eartip, beige

**5080370E90** Standard Earpiece Assembly includes earphone, earloop and eartip, black

**5080369E39** Extra Loud Assembly, includes earphone, earloop and eartip, beige

**5080370E91** Extra Loud Earpiece Assembly, includes earphone, earloop and eartip, black

**5080369E40** Plastic Urethane Earloop, beige

**5080370E92** Plastic Urethane Earloop, black

**5080371E69** Small Rubber Eartip, beige, pack of 25

**5080371E71** Small Rubber Eartip, black, pack of 25

**5080371E73** Standard Rubber Eartip, beige, pack of 25

**5080371E75** Standard Rubber Eartip, black, pack of 25

**5880377E06** Plastic Eartip Adapter, pack of 10



5080369E39



5080370E92

#### Surveillance Kits with Extended Wear Earpiece

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

**RLN5311A** Beige Two-Wire Comfort Earpiece with Combined Microphone and Push-to-Talk; requires BDN6676D audio adapter

**RLN5312A** Black Two-Wire Comfort Earpiece with Combined Microphone and Push-to-Talk; requires BDN6676D audio adapter

**RLN5313A** Receive-Only Comfort Earpiece, black

**RLN5314A** Receive-Only Comfort Earpiece, beige

### Audio Accessories

#### Completely Discrete Earpiece

Remain discretely in touch with this miniaturized receiver. All messages received through the user's two-way radio are inductively relayed to the wireless earpiece in the user's ear. Inductive neckloop is easily hidden under the user's clothing for covert operations. Neckloop attaches to the user's Motorola Surveillance Kit providing completely discrete two-way communications. Security operatives, public safety officials, and private investigators can communicate with ease without any visible equipment. Small as it is, it offers a full range of audio functions including automatic squelch, automatic gain control and noise filtering. **Must be used in conjunction with a Motorola Surveillance Kit. Just remove the earpiece on any standard 2- or 3-wire surveillance kit and plug in the neckloop for completely discrete communication.**

**RLN4922A** Completely Discrete Earpiece Kit; includes wireless earpiece, inductive neckloop, 6 spare batteries and 5 spare ear wax guards

**RLN4919A** Ear Wax Guards, 5 per pack

**RNN4005A** 1.4V Battery, 6 per pack



RLN4922A

# MTX9000 Series

## Portable Accessories

### Audio Accessories

#### Noise Kits

Lightweight translucent tube attaches to Motorola surveillance accessories. Clothing clip prevents the accessory from being pulled from the ear due to body movement or head rotation.

**NTN8370A** Extreme Noise Kit, includes 2 foam earplugs for loud environments, provides 24dB noise protection

**NTN8371A** Low Noise Kit, includes rubber eartip for low noise environments

**5080384F72** Replacement Foam Plugs; pack of 50 (for use with NTN8370A)

**5080371E73** Replacement Standard Rubber Eartips; pack of 50 (for use with NTN8371A), beige

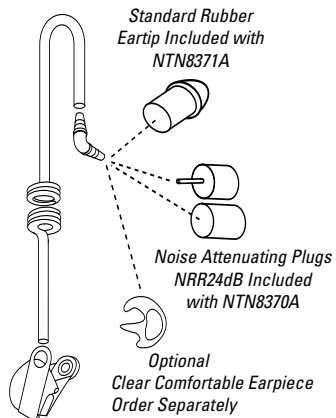


NTN8370A

#### Clear Comfortable Earpiece

The clear comfortable earpiece forms to the inside of your ear and is perfect for low noise environments. Compatible with the NTN8371A, clear acoustic tube assembly, and most surveillance kits (1-, 2- and 3-wire). This earpiece is made of easy-to-clean chemically inert, hypoallergenic material. There are 3 items needed to make this product work:

1. Clear Comfortable Earpiece
2. Clear Acoustic Tube Assembly (NTN8371A)
3. Surveillance Kits



Acoustic Tube with Earphone

**RLN4760A** Small Custom Earpiece, right ear

**RLN4763A** Small Custom Earpiece, left ear

**RLN4761A** Medium Custom Earpiece, right ear

**RLN4764A** Medium Custom Earpiece, left ear

**RLN4762A** Large Custom Earpiece, right ear

**RLN4765A** Large Custom Earpiece, left ear

### Audio Accessories

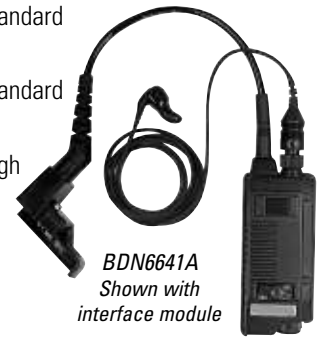
#### Ear Microphone System (EMS)

This compact unit picks up the voice through bone vibrations in the ear canal. The miniature earpiece leaves the hands free and face unobscured when worn by rescue and hazard protection personnel, who still retain the ability for direct hearing and speaking. For personnel required to wear breathing apparatus, communications with protective masks are as clear as communications without. And its high speech clarity under noisy environments makes it ideal for high noise environments. Available in PTT or Voice Activated (VOX). Interface Module needs to be ordered separately for EMS to work

**\*BDN6677A** Ear Microphone for Standard Noise Levels (up to 95dB, black)

**\*BDN6678A** Ear Microphone for Standard Noise Levels (up to 95dB, beige)

**\*BDN6641A** Ear Microphone for High Noise Levels (up to 105dB)



BDN6641A  
Shown with interface module

#### Interface Module For EMS

**\*BDN6708B** Push-To-Talk Interface Module

**\*BDN6671B** Push-To-Talk or Voice-Activated Interface Module



BDN6708B

\* Intrinsically safe

# MTX9000 Series

## Portable Accessories

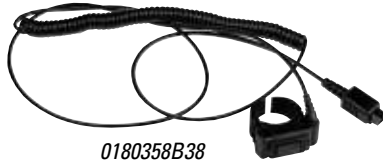
### Audio Accessories

#### Optional Accessories For EMS

**\*0180358B38** Remote Push-To-Talk Ring Switch

**0180300E83** Remote Push-To-Talk Body Switch

**0180300E25** Earguard with Adjustable Loop; secures ear mic in ear



0180358B38



0180358B33

**0180358B32** Earholder, black size small; secures ear mic in ear

**0180358B33** Earholder, black, size medium; secures ear mic in ear

**0180358B34** Earholder, black, size large; secures ear mic in ear

**0180358B35** Earholder, clear, size small; secures ear mic in ear

**0180358B36** Earholder, clear, size medium; secures ear mic in ear

**0180358B37** Earholder, clear, size large; secures ear mic in ear

**4280369E44** Replaceable Belt Clip with Screws

**5080358B28** Eartips, black, size medium (10 per pack)

**5080358B29** Eartips, black, size large (10 per pack)

**5080358B30** Eartips, beige, size medium (10 per pack)

**5080358B31** Eartips, beige, size large (10 per pack)

#### Flexible Ear Receiver

**BDN6719A** Ear Receiver with 3.5 mm Threaded Plug, requires adapter BDN6676D unless being used with speaker microphone

**7580372E11** Replacement Foam Ear Cushions for BDN6719A



BDN6719A

### Audio Accessories

#### Pellet Style Earpieces

**BDN6780A** Single Earbud with Microphone and Push-To-Talk, requires adapter BDN6676D, unless being used with speaker microphone

**BDN6781A** Single Earbud, receive only; requires adapter BDN6676D unless being used with speaker microphone



BDN6780A

**5780372E70** Replacement Foam Ear Cushion for Pellet Earpieces

#### Lightweight Headsets

Lightweight headsets allow for high clarity, hands-free, discrete two-way communication, while adding comfort necessary for extended wear in moderate noise environments. Requires BDN6676D Audio Adapter.

**\*NMN6245A** Single Muff Lightweight Headset with In-line Push-To-Talk Switch (requires BDN6676D adapter)

**\*NMN6246B** Ultralite Headset with Boom Microphone and In-line Push-To-Talk Switch; ear bud style receiver (requires BDN6676B adapter)

**\*NMN1020A** Lightweight Headset with Boom Microphone to be worn on a helmet or safety glasses. Includes NKN6498A adapter cable. Requires BDN6676D adapter. FM approved.

**\*NKN6498A** Headset Adapter Cable for use with NMN1020A

**REX4648A** Replacement Foam Earpad and Windscreen Kit for NMN6245A

**5080574E02** Foam Earpads for use with NMN6245A, 10 per pack

\* Intrinsicly safe

# MTX9000 Series

## Portable Accessories

### Audio Accessories

#### Temple Transducer



**RMN4049A**

The Temple Transducer represents a significant achievement in headset design and functionality. It allows the user to receive audio without covering the ear. The receiver portion of the accessory rests on the temples and it is capable of converting the receive audio from a two-way radio into sound vibration. The sound vibration is transmitted through the surrounding human tissue and bone directly into the

inner ear where it is received by the user. It features an in-line PTT and noise canceling boom microphone. The Temple Transducer enhances communications and safety by not impairing the user's hearing of external sound environment, such as from machinery and equipment, warning and fire alarms, the intercom, traffic, and even casual conversations with their co-workers.

**RMN4049A** Temple Transducer

#### Racing Headset

Motorola is the Official Wireless Equipment supplier of CART®, so whether your customers' playing field is a racetrack, construction site or other challenging environment, they can count on this Racing Headset for superior comfort and dependable operation.

**RMN5015A** Racing Headset  
(Requires radio adapter cable BDN6673B)



**RMN5015A**

### Audio Accessories

#### Medium Weight Headsets

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

**\*NMN6258A** Medium Weight Headset, over the head with In-Line PTT, Noise Reduction Rating = 24dB

**\*NMN6259A** Medium Weight Headset, behind the head with In-Line PTT, Noise Reduction Rating = 24dB

**7580376E34** Replacement Foam Earseals, 1 pair

**1580376E32** Replacement Cloth Covers for Earseals, 1 pair

**5080548E02** Replacement Windscreen for Boom Microphone

**3280376E35** Replacement O-ring for Windscreen

**4204004K01** Replacement Adjustable Headstrap for NMN6259A

**RMN4051A** Hardhat Mount Headset mounts easily to hardhats with slots and provides 22dB of noise reduction; requires RKN4095A adapter cable, hardhat not included

**RKN4095A** Radio Adapter Cable with In-Line PTT for use with RMN4051A



**NMN6258A**

# MTX9000 Series

## Portable Accessories

### Audio Accessories

#### Tactical Medium Weight Headsets



RMN4052A

Same high-clarity sound and additional hearing protection as our standard medium weight headsets while including two microphones on the outside of each earcup which reproduces the ambient sound back into the headset. Harmful sounds are suppressed to a safe level and low sounds are amplified up to 5 times but never more than 82dB. Includes on/off volume control on ear cups.

**RMN4052A** Tactical Headband Style Headset, grey; provides 24dB of noise reduction and requires RKN4095A adapter cable

**RMN4053A** Tactical Hardhat Mount Headset mounts easily to hardhats with slots; provides 22dB of noise reduction and requires RKN4095A adapter cable, hardhat not included

**RKN4095A** Radio Adapter Cable with In-Line PTT for use with RMN4051A and RMN4053A

**RLN4923A** Two Replacement Snap-in Earseals; Recommended replacement interval is once every six months to ensure constant level of attenuation hygiene and comfort for RMN4051A, RMN4052A, and RMN4053A.

### Audio Accessories

#### Heavyduty Headsets

Heavyduty headsets include noise-cancelling boom microphones and can be worn with or without a hardhat. Headsets are for use in noise levels up to 125 dB. The Push-To-Talk switch is located on the earcup. The VOX module is contained within the headset on voice activated units. Heavyduty headsets require radio adapter cable BDN6673B, to be ordered separately.



BDN6645A

**\*BDN6645A** Push-To-Talk Headset with Boom Microphone; requires adapter cable BDN6673B; noise reduction rating = 24dB

**\*BDN6635B** Voice-activated Headset with Boom Microphone; requires adapter cable BDN6673B; noise reduction rating = 24dB



BDN6635B



BDN6636B

**\*BDN6636B** Voice-activated Headset with Throat Microphone; requires adapter cable BDN6673B; noise reduction rating = 24dB

**\*BDN6673B** Radio Adapter Cable

\* Intrinsically safe

# MTX9000 Series



## Antennas, Miscellaneous Accessories

### Portable Antennas

#### Flexible Whip Antennas

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

##### 8505241U05

Flexible Whip, 403-520MHz, 6"

##### 8505241U03

Flexible Whip, 806-870MHz, 7"

##### 8505241U04

Flexible Whip, 896-941MHz, 7"



8505241U05

#### Helical Antennas

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

##### 8505644V01

Helical, 136-151MHz, 6"

##### 8505644V02

Helical, 151-162MHz, 6"

##### 8505644V03

Helical, 162-174MHz, 6"

##### 8505644V04

Helical, 403-435MHz, 3"

##### 8505644V05

Helical, 435-470MHz, 3"

##### 8505644V06

Helical, 470-520MHz, 3"



8505644V01



8505644V03



8505644V04

### Portable Antennas

#### Dipole Antennas

Dipole molded 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.

##### NAF4000B

Dipole, 806-869MHz, 8"

##### 8505884R02

Dipole, 896-941MHz, 8"



NAF4000B

8505884R02

#### Wideband Antenna

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

**8505518V01** Wideband, 136-174MHz, 6"

#### Stubby Antenna

This quarterwave stubby antenna is ideal when radio is worn on the belt because the short antenna is non-obtrusive. This is a broadband antenna that can be used for both 800MHz and 900MHz applications.

##### \*8505241U06

Stubby, 806-941MHz, 4"



8505241U06

### Miscellaneous Accessories

#### Replacement Kit

**REX4398A** 2/8/16 Channel Cosmetic Replacement Kit

#### Public Safety Tilt Switch

An external emergency switch that is activated when the unit is tilted at a greater than 60 degree angle. Delay times are factory programmed for 8 seconds and are not field programmable. The emergency feature must be programmed into the radio to enable the tilt switch option. FM approved. Not compatible with the JT1000.

**NTN7660A** Public Safety Tilt Switch

\*8505241U06 is a broadband antenna that operates in the 800/900 MHz band





# MTX9000 Series

## Batteries

### Portable Batteries

#### Nickel-Cadmium Premium

Part Number: **NTN7143CR**  
 Volts: 7.5  
 Avg. mAh: 1200  
 Height: 6"  
 Intrinsically Safe: No



NTN7143CR

Part Number: **NTN7144CR**  
 Volts: 7.5  
 Avg. mAh: 1500  
 Height: 6"  
 Intrinsically Safe: No

Part Number: **NTN7146AR**  
 Volts: 7.5  
 Avg. mAh: 1200  
 Height: 6"  
 Intrinsically Safe: Yes

Part Number: **NTN7147AR**  
 Volts: 7.5  
 Avg. mAh: 1300  
 Height: 6"  
 Intrinsically Safe: Yes



NTN7147AR

Part Number: **NTN7149BR**  
 Volts: 7.5  
 Avg. mAh: 1300  
 Height: 6"  
 Intrinsically Safe: Yes  
 CSA: Yes

Part Number: **NTN7150AR**  
 Volts: 7.5  
 Avg. mAh: 1200  
 Height: 6"  
 Intrinsically Safe: Yes  
 MSHA: Yes

### Portable Batteries

Part Number: **NTN7341AR**  
 Volts: 7.5  
 Avg. mAh: 1400  
 Height: 6"  
 Intrinsically Safe: Yes



NTN7341AR

Part Number: **NTN7372AR**  
 Volts: 7.5  
 Avg. mAh: 1200  
 Height: 6"  
 Intrinsically Safe: Yes

#### Nickel Metal Hydride Premium

Part Number: **WPNN4013A**  
 Volts: 7.5  
 Avg. mAh: 2000  
 Height: 6"  
 Intrinsically Safe: No



WPNN4013A

Part Number: **WPNN4037A**  
 Volts: 7.5  
 Avg. mAh: 1900  
 Height: 6"  
 Intrinsically Safe: Yes

#### Nickel-Cadmium impres™

Part Number: **HNN9028AR**  
 Volts: 7.5  
 Avg. mAh: 1500  
 Height: 6"  
 Intrinsically Safe: No

Part Number: **HNN9029AR**  
 Volts: 7.5  
 Avg. mAh: 1500  
 Height: 6"  
 Intrinsically Safe: Yes

# MTX9000 Series

## Service Aids, Manuals

### Service Aids

#### Battery Eliminator

The Battery Eliminator acts like a battery with a cable to access a DC external power supply. It is ideal to inspect transmitters and receivers on incoming radios. Reverse supply polarity protection and input fuse protection are provided.

**RLN1014A** Battery Eliminator



RLN1014A



0180357A57

#### Wall Mounted Power Supply

Used to supply power to radio interface box, RLN4008E

**0180357A57** Wall Mounted Power Supply, 110 Volts

**0180358A56** Wall Mounted Power Supply, 220 Volts

#### Radio Test and Programming Cable

Used with Portable Radio Test Set, RTX4005, for transmitter, receiver alignment and performance checks. Also used in programming radio.

**RKN4035D** Radio Test and Programming Cable

#### Radio Interface Box

Links radio programming cable and computer interface together. Provides required voltage shift to enable communications between radio and computer. Requires computer interface cable, radio test and programming cable, and 9 volt snap type battery (6082728J01), order separately.

**RLN4008E** Radio Interface Box



RLN4008E

### Service Aids

#### Cloning Cable

Allows another radio to be duplicated from a master radio by transferring programmed data from one radio to another.

**RKN4036D** Cloning Cable

#### Computer Interface Cable

Used to connect computer's serial port to Radio Interface Box.

**3080369B71** Cable, RIB to 25 pin D

**3080369B72** Cable, RIB to 9 pin D



3080369B71

#### Programming Software

Utilizing your personal computer, this software enables you to add or reprogram frequencies as your requirements change. Requires interface box and appropriate cables, must be ordered separately.

**RVN4176M** Programming Software

### Manuals

- 6881200C15** Theory and Troubleshooting Manual
- 6881200C25** Service Manual
- 6881200C40** Maintenance Manual
- 6881076C65** Operator Manual
- 0180305J46** Ear Microphone System and Temple Transducer CD-ROM
- 0180305J70** impres™ System CD-ROM