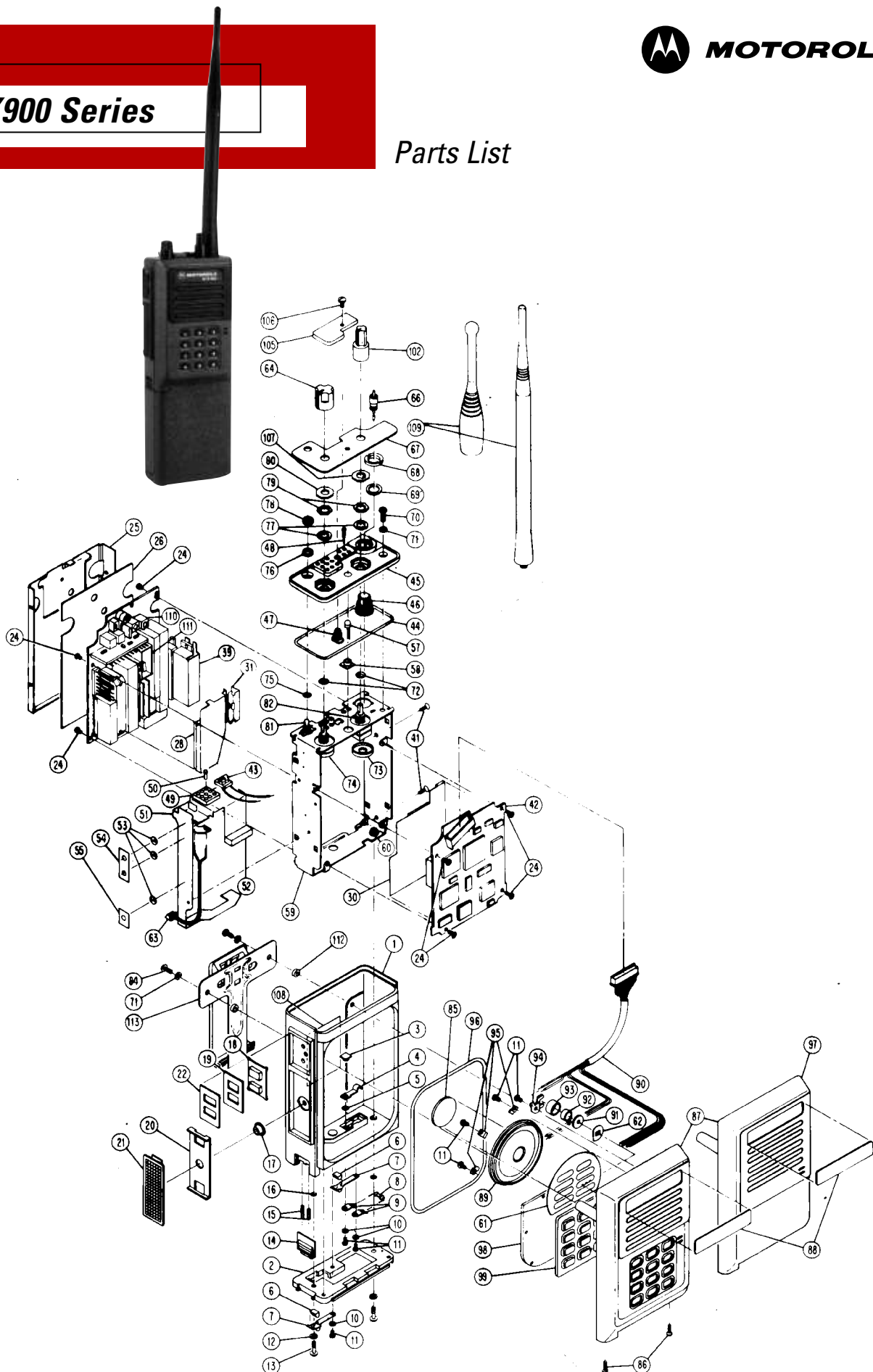


# MTX900 Series



## Parts List



**Replacement parts are no longer available**

**MTX900 Series***Parts List*

REF.  
NO. PART NO. DESCRIPTION

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REF.  
NO. PART NO. DESCRIPTION

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***Cancelled Product MTX900:  
Aftermarket support criteria has  
been met for spare parts. Items  
are longer be available.***

# MTX900 Series

## Portable Accessories

### Chargers

A variety of chargers are available to fit the charging capabilities of your batteries. Choose rapid or regular rate, single, multiple or compact units.

#### Single Unit

**NTN4633C** Single Unit, Rapid Rate Charge, 117V

**NTN4634B** Single Unit, Rapid Rate Charge, 220V

**NTN4636A** Single Unit, Regular Rate Charge, 220V



NTN4633C



NTN4666B

#### Compact

**NTN4666B** Compact, Regular Rate Charge, 117V

**NTN4667A** Compact, Regular Rate Charge, 220V

#### Multiple Unit

**NTN4668C** Multi-Unit Charger, Rapid Rate, 117V

**NLN7967A** Wall Mount for Six Unit Charger



NTN4668C



NTN5438A

#### Vehicular Charger

**NTN5438A** Vehicular Charger 12V DC (16 Hour Charge Rate)

**NKN6428A** 12V Cable Kit. (Only required if not used with PAC•RT)

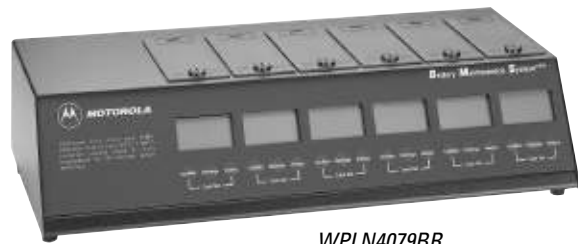
### Battery Maintenance System<sup>plus</sup> (BMS<sup>plus</sup>)

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

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



WPLN4079BR

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

**TDN9441A** Standard Adapter, MTX-900

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

## MTX900 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-71173** Standard Adapter, MTX900

### 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.

**WPPN4009BR** 110V AC Base Charge Unit with adapter plate

**3080384G15** Cigarette Lighter Adapter Cord

**RLN4814A** Mounting Bracket for single unit conditioning chargers



**WPPN4009BR**

# MTX900 Series

## Portable Accessories

### 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.



NTN5460B

#### Standard

**NTN5460B** Leather Carrying Case, Spacer and T-Strap, for High or Medium Capacity Batteries (Snap)

#### Swivel

**NTN5461B** Leather Carrying Case with T-Strap, Spacer and Belt Loop, for High or Medium Capacity Batteries (Snap)



NTN5461B

**NTN5450B** Leather DTMF Swivel Long (Snap)



NTN4814C

#### Belt Clip Carry Holder

**NTN4814C** Belt Clip Carry Holder

### Carrying Accessories

#### T-Straps

**4205386S03** T-Strap, Snap

**4205386S01** T-Strap, Velcro



4205386S01

**4205447R03** T-Strap for Belt Clip Carry Holder, Snap



4205447R03



HLN6602A

#### Chest Pack

**HLN6602A** Universal Chest Pack with Radio Holder and Velcro Secured Pocket

**1505596Z02** Replacement Strap for HLN6602A

#### 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"

**RLN4570A** Break-A-Way Chest Pack; all of the same features as the original chest pack (HLN6602A) plus break-a-way tabs that allow that allow the entire pack to be pulled off with approximately 10 lbs of pressure.

# MTX900 Series

## Portable Accessories

### Carrying Accessories

#### Spacer

**4305525R02** Spacer for Carrying Cases



4305525R02

#### Belt Clips

**NTN4916B** Belt Clip, 1-1/2"

**NTN4924B** Belt Clip, 2-1/4"

**NTN5602A** Public Safety Full 3" Clip Black Aluminum



NTN4916B

#### Belt Loops

**4282421J06** Swivel Belt Loop, 2-1/2"

**4205857B01** Swivel Belt Loop, 2"



4282421J06

#### Button Back Cover Kit

**NTN5497A** T-Bar Button Back Cover Kit, Black



NTN5497A

#### Belt

**4200865599** 2" Wide Leather Belt, for all models



4200865599

#### 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 2-3/4"

**TDN9373A** Portable Radio Hanger for Door Panels 2-3/4" to 3-1/4"



TDN9327A

### Audio Accessories

#### Remote Speaker/ Microphone

**NMN6156B** Remote Speaker Microphone with Coil Cord, Clip Back



NMN6156B

**NMN6145B** Remote Speaker Microphone with Clip, Coil Cord, and 2.5 mm Earphone Jack

**NMN6129B** UHF Public safety microphone (Antenna and velcro patch must be ordered separately)

**NLN8410A** Velcro Pin Patch Attachment



RLN4294A

#### Epaulet Strap

Black leather epaulet straps secure remote speaker microphones to epaulet of shirts or jackets and attach around cord. Allows reliable communications in hostile environments with Velcro or clip style strap.

**RLN4294A** Epaulet Strap, Velcro

**RLN4295A** Epaulet Strap, Small Clip



RLN4295A

# MTX900 Series



## Portable Accessories

### Audio Accessories

#### Earpiece

**5083693B01** Earpiece and Volume Control (requires NTN4812B)

**5083693B04** Earpiece and Volume Control (3.5 mm)

#### Ear Receiver

**BDN6717B** Ear receiver with 3.5 mm plug, to be used with adapter NTN4812B

#### NTN4812B

Earphone Jack Adapter



BDN6717B

#### Ear Microphone System

This compact unit picks up the voice through bone vibrations in the ear canal. Ideal for use in high noise environments. Available in PTT or Voice-activated (VOX) capabilities for total hands free communications. Order Interface Module separately.



BDN6677A

\***BDN6677A** Ear Microphone for Standard Noise Levels (up to 95 db), Black

\***BDN6678A** Ear Microphone for Standard Noise Levels (up to 95 db), Beige

\***BDN6641A** Ear Microphone for High Noise Levels (up to 105 db), Grey



BDN6641A

(Shown with BDN6680B)

#### Interface Module

\***BDN6679B** Push-To-Talk Interface Module

\***BDN6680B** Voice-Activated Interface Module

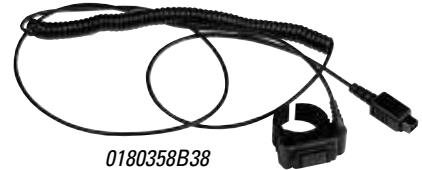
### Audio Accessories

#### Optional Accessories

##### \*0180358B38

Remote Push-To-Talk Ring Switch

**0180300E25** Earguard with Adjustable Loop



0180358B38

**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



0180358B33

**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)

#### Optional Surveillance

**ZMN6031A** Three wire surveillance accessory with earpiece, microphone and push-to-talk as separate pieces. Factory Mutual Approved. Requires NTN5075B.



ZMN6031A

\* Intrinsically safe

# MTX900 Series

## Portable Accessories

### Audio Accessories

**ZMN6032A** Two-wire surveillance accessory with earpiece microphone and push-to-talk. Microphone and PTT are combined. Factory Mutual Approved. Requires NTN5075B



ZMN6032A

**NTN5075B** Hirose Adapter for two-and three-wire Surveillance Accessories.

### Noise Kits

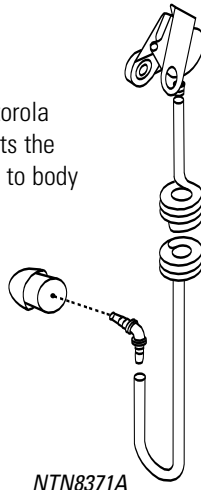
Lightweight translucent tube attaches to Motorola surveillance accessories. Clothing clip prevents the accessory from being pulled from the ear due to body movement or head rotation.

**NTN8370A** Extreme Noise Kit, includes 2 foam earplugs for loud environments

**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 25 (for use with NTN8371A), beige



NTN8371A



RLN4763A

### 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

**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

#### Headsets

All headset accessories include radio cables and can be plugged directly into radio. No additional equipment is required.

#### Low to Moderate Noise Levels (Up to 90 dB)

Lightweight headset with electret condenser microphone and single speaker.

*Not for use with headgear.*

**BDN6477A** In-Line Push-To-Talk

**BDN6478A** Pendant-Thumb Push-To-Talk



BDN6478A

#### High Noise Levels (to 115 dB)

Noise-attenuating headset with military noise-cancelling microphone and dual speaker.

*Not for Use With headgear*

**BDN6482A** Pendant-Thumb Push-To-Talk

**BDN6485A** In-Line Push-To-Talk

*Can be worn with or without hardhat or helmet*

**BDN6486A** Pendant-Thumb Push-To-Talk



# MTX900 Series

## Portable Accessories

### Audio Accessories

#### High noise level headset (up to 125 db)

Heavy-duty headset with noise cancelling microphone and push-to-talk switch located on earcup. VOX module contained within headset on voice activated units. Factory Mutual Approved. *NOTE:* Can be worn with or without hard hat or fire helmet.

**BDN6639A** Adapter Cable

**BDN6645A** Push-To-talk Headset with Boom Microphone, Requires Adapter Cable



*BDN6645A  
(Shown with adapter cable BDN6639A)*

**BDN6635B** Voice-Activated Headset with Boom Microphone, Requires Adapter Cable



*BDN6635B  
(Shown with adapter cable BDN6639A)*

**BDN6636B** Voice-Activated Headset with Throat Microphone, Requires Adapter Cable

#### Lightweight Headset

**RMN4015A** Lightweight Headset with Swivel Boom Microphone, Single Speaker and In-line PTT



*RMN4015A*

### Audio Accessories

#### Helmet Accessories

All helmet and face mask kits require a radio cable assembly.

#### Industrial Helmet Accessories

Hardhat kit includes military noise-cancelling microphone. Choice of single or dual speaker, for use with the Bullard 302/303. Requires one of the following cable kits.

#### Single Speaker

**BDN6275A** Helmet Kit

#### Police Helmet Accessories

Police helmet kit has military noise-cancelling microphone with choice of single or dual speaker.

#### Single Speaker

**BDN6362A** Bell SD600 (BT600) 1/2 Shell Helmet Kit

**BDN6277A** Seer 1601,1602 Helmet Kit

#### Dual Speaker

**BDN6363A** Bell SD600 (BT600) 1/2 Shell Helmet Kit

**BDN6492A** Cable Kit, Includes transmit switch, volume control, microphone electronics, and remote push-to-talk jack built into a belt-mounted control box

**BDN6292A** Handlebar PTT switch for belt mounted control box (For use with BDN6492 Cable Kit)

# MTX900 Series

## Portable Accessories, Antennas

### Vehicular Adapter

The Basic MVA console kits may be ordered separately. These items allow use of the portable radio in a mobile application. Order antenna separately.

**NSN6054A** 12-Watt External Speaker



NSN6054A

**HMN1056D** Microphone, Compact Palm

**HMN1035C** Microphone, Heavy-Duty Palm

**HMN3013A** Microphone, DTMF



HMN1056D

### Portable Antennas

#### Flexible Whip Antenna

Flexible Whip antennas have a one-piece finish and steel core for optimal radiation characteristics. Provides more comfort when radio is worn on the belt.

**8505241U04**

Flexible Whip, 896-941MHz, 7"

#### Vehicular Antenna Kit

Allows user to convert their portable radio into a mobile application. Comes complete with Mobile Antenna, Cable, Custom Adapter and Connector.

**RAF4001ARG**

Vehicular Antenna Kit

#### Dipole Antenna

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.

**8505884R02**

Dipole, 896-941MHz, 8"



8505884R02

#### Stubby Antennas

This quarterwave stubby antenna is ideal when radio is worn on the belt because the short antenna is non-obtrusive.

**\*8505241U06**

Stubby, 806-941MHz, 4"



8505241U06

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

# MTX900 Series

## Batteries, Service Aids

### Portable Batteries

#### Nickel-Cadmium Premium

Part Number: **NTN4823BR**  
 Volts: 10  
 Avg. mAh: 550  
 Height: 2-7/16"  
 Intrinsically Safe: Yes



NTN4823BR

Part Number: **NTN5447BR**  
 Volts: 10  
 Avg. mAh: 1100  
 Height: 3-5/16"  
 Intrinsically Safe: No

Part Number: **NTN5448BR**  
 Volts: 10  
 Avg. mAh: 1000  
 Height: 3-5/16"  
 Intrinsically Safe: Yes

#### Nickel Metal Hydride Premium

Part Number: **NTN7015A**  
 Volts: 10  
 Avg. mAh: 950  
 Height: 2-7/16"  
 Intrinsically Safe: No

#### Alkaline

Part Number: **NTN4870B**  
 Volts: (NA)  
 Avg. mAh: 2100  
 Height: 3-5/16"  
 Intrinsically Safe: No

### 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.



RTL4226B

**RTL4226B** Battery Eliminator

#### 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

**RLN4008E** Radio Interface Box

#### Computer Interface Cable

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



3080369B71

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

**3080369B72** Cable to 9 pin D

#### Wall Mounted Power Supply

Used to supply power to radio interface box, RLN40008E

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

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

# MTX900 Series

## Service Aids, Tools, Manuals

### Service Aids

#### Radio Test and Programming Cable

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

**RTK4205C** Test and Programming Cable

#### Battery Adapter



1580368B62

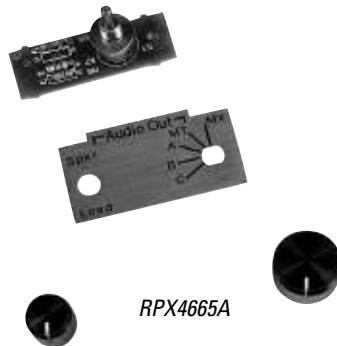
Replaces radio housing during servicing and provides easy mounting for battery eliminator, RTL4226B.

**1580368B62** Battery Adapter

#### Field Modification Kit

Allows for quick field modification of RTX4005 "A" test sets to provide operation with MTX800 Radios.

**RPX4665A** Field Modification Kit RTX4005A



RPX4665A

### Service Tools

#### SMA to BNC Adapter

**5880384G68** SMA to BNC Adapter

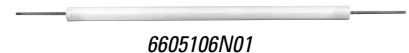
#### Programming Software

Utilizing your personal computer, this software enables you to add/or reprogram frequencies as your requirements change. Requires Radio Interface Box and proper cables, order separately.

**RVN4033J** Programming Software, 3-1/2" diskette (includes manual and storage box)

#### Tuning Tool

**6605106N01** Tuning Tool, Adjusts Tunable Coils and Potentiometers



6605106N01



RSX4043A

#### Torque Screwdriver

**RSX4043A** Torque Screwdriver, Order Bits Separately

**6680371B34** Spanner Bit, for Antenna Bushing Nut

**6680371B03** Hex Nut Driver Bit, for Volume Pot and Rotary Switch Nuts

**6680370B95** Spanner Bit, for Toggle Switch Spanner Nut

**6680321B86** Phillips Bit #0 for Housing and Chassis Screws

**6680342A66** Spanner Bit for Antenna Retainer Connector



6680321B86

### Manuals

**6881069C30**

Service Manual

**6881054C40**

Theory/Maintenance Manual

**6881054C35**

Operating Conventional Manual/Trunked Manual

**0180305J46**

Ear Microphone System and Temple Transducer CD-ROM