<table>
<thead>
<tr>
<th>REF. NO.</th>
<th>PART NO.</th>
<th>DESCRIPTION</th>
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<tbody>
<tr>
<td>1</td>
<td>4505896U01</td>
<td>Lever, PTT</td>
</tr>
<tr>
<td>2</td>
<td>3205902U01</td>
<td>Seal, PTT, and Actuator for S404, S405, S406, and S408</td>
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<tr>
<td>3A</td>
<td>1505637V04</td>
<td>Cover, Front; Full Keypad</td>
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<tr>
<td>3B</td>
<td>1505637V05</td>
<td>Cover, Front; Limited Keypad</td>
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<td>4</td>
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<td>Label, Agency Approval; not field replaceable</td>
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<td>5A</td>
<td>7505870U01</td>
<td>Keypad, 15-key</td>
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<tr>
<td>5B</td>
<td>7505870U02</td>
<td>Keypad, 6-key</td>
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<td>6</td>
<td>5105238U83</td>
<td>Module, Display</td>
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<td>7</td>
<td>3305183R55</td>
<td>Label, Motorola</td>
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<td>8</td>
<td>3305409X05</td>
<td>Label, MTS2000</td>
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<td>9</td>
<td>3505535X02</td>
<td>Felt, Speaker</td>
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<td>11</td>
<td>0705470V01</td>
<td>Bracket, Speaker Retainer</td>
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<td>13</td>
<td>1405330W02</td>
<td>Boot, Microphone</td>
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<td>14</td>
<td>8405310W04</td>
<td>FLEX, Front Cover/Display</td>
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<tr>
<td>15</td>
<td>8405333W02</td>
<td>FLEX, Controls</td>
</tr>
<tr>
<td>16</td>
<td>3905517V01</td>
<td>Popple, PTT (p/o S406)</td>
</tr>
<tr>
<td>17</td>
<td>3605253V01</td>
<td>Knob, On/Off/Volume</td>
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<tr>
<td>18</td>
<td>3605636V01</td>
<td>Knob, Frequency</td>
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<td>19</td>
<td>1305633V01</td>
<td>Ring, Concentric; Escutcheon</td>
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<td>20</td>
<td>3605635V01</td>
<td>Knob, Concentric Ring</td>
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<td>21</td>
<td>1305698V01</td>
<td>Escutcheon, Control Top</td>
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<td>22</td>
<td>3205160W01</td>
<td>Seal, Actuator; for S101</td>
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<td>23</td>
<td>2205159W01</td>
<td>Pin, Actuator; for S101</td>
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<td>25</td>
<td>3205177Z01</td>
<td>Seal, Control Top</td>
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<td>26</td>
<td>3205177Z01</td>
<td>Seal, Emergency Button</td>
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<td>27</td>
<td>2705877U01</td>
<td>Housing, Switch</td>
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<td>30</td>
<td>3905329W01</td>
<td>Popple, Emergency Button</td>
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<td>33</td>
<td>1505632V01</td>
<td>Cover, Switch Housing</td>
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<td>Spring, PA; not field replaceable, order front shield (item 41)</td>
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<td>35</td>
<td>4205507X01</td>
<td>Strain Relief</td>
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<td>36</td>
<td>8405247V01</td>
<td>FLEX, Jumper</td>
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<td>38</td>
<td>3205820V01</td>
<td>Seal, Connector Plug</td>
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<td>3205176Z01</td>
<td>“O” Ring, Contoured/Seal, Antenna</td>
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<td>0705856V01</td>
<td>Bracket, RF Switch</td>
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<td>43</td>
<td>1505520V01</td>
<td>Housing, RF Switch</td>
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<td>44</td>
<td>4105266V01</td>
<td>Spring, RF Switch</td>
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<td>45</td>
<td>4405524V01</td>
<td>Piston, RF Switch</td>
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<td>46</td>
<td>8405523V01</td>
<td>Circuit Board, RF Switch</td>
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<td>47</td>
<td>REX4575A</td>
<td>Chassis (Rear Cover)</td>
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<td>48</td>
<td>3905838V01</td>
<td>Contact, Antenna Shield Ground (800 MHz and 900 MHz radios only)</td>
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<tr>
<td>49</td>
<td>2605898U01</td>
<td>Shield, PA (800 MHz and 900 MHz radios only)</td>
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<td>50</td>
<td>0405717W01</td>
<td>Washer, PTT Seal</td>
</tr>
<tr>
<td>52</td>
<td>7505393N33</td>
<td>Pad, Shock</td>
</tr>
</tbody>
</table>
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. Rapid rate chargers fully charge the battery in less than three hours. Standard rate chargers fully charge the battery in approximately 16 hours.

**Single Unit Chargers, Rapid Rate**
- NTN1168A Enhanced Desktop, 117 Volts*
- NTN1169A Enhanced Desktop, 220 Volts (supplied with 2 prong cord)**
- NTN1170A Enhanced Desktop, 240 Volts (supplied with 3 flat prong cord)**
- NTN1171A Compact, 117 Volts*

**Single Unit Chargers, Standard Rate**
- NTN1174A Desktop, 117 Volts*
- NTN1175A Desktop, 220 Volts (supplied with 2 prong cord)**
- NTN1176A Desktop, 240 Volts (supplied with 3 flat prong cord)**

**Multiple Unit Chargers**
- NTN1177C Six Pocket, Rapid Rate, 117 Volts
- NTN1178A Six Pocket, Rapid Rate, 220 Volts (supplied with 2 prong cord)
- NTN1179A Six Pocket, Rapid Rate, 240 Volts (supplied with 3 flat prong cord)
- NLN7967A Wall Mount

**Enhanced Charger Line Cords**
Cords can be used on any Enhanced Single or Multiple Unit Rapid Charger to provide versatility for Domestic or International charging capability.
- 3060665A04 Exchangeable Line Cord, 110V
- 3060665A05 Exchangeable European 2 Prong Line Cord, 220V
- 3002120F02 Exchangeable United Kingdom 3 Prong Line Cord 240V

**Vehicular Charger**
- TDN9816A Vehicular Charger for Nickel-Cadmium Battery; includes mounting bracket

*Underwriters Laboratory Approved

**VDE Approved
BATTERY MAINTENANCE SYSTEM Plus (BMS Plus)

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

WPLN4079AR Six Station, 110V AC, 50/60 Hz
WPLN4080AR Six Station, 230V AC, 50/60 Hz

Adapters

TDN9435C Standard Adapter, MTS 2000, NiCd
CDN6364A Standard Adapter, MTS 2000, NiCd and NiMH

BATTERY OPTIMIZING SYSTEM (BOS)

The Battery Optimizing System accommodates NiCD, NiMH, Li-Ion, and SLA. Four independent stations for simultaneous service of 4 batteries. Reads battery capacity in percentage of nominal rating; verifies voltage; measures battery temperature and displays battery impedance in milliohms. (Adapter sold separately).

WPLN4071AR 4 Station, 110V AC, 50/60 Hz
WPLN4073AR 4 Station, 230V AC, 50/60 Hz

Adapters

RL-72403 Standard Adapter, MTS 2000

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.

WPPN4002AR 110V AC Base Charge Unit only
WPPN4006AR 220V AC Base Charge Unit only
WPPN4004AR 7 Volt Adapter only
WPLN4090AR MCC Kit, 110V AC; includes both base unit and 7V adapter
WPLN4091AR MCC Kit, 220V AC; includes both base unit and 7V adapter
3080384G15 Cigarette Lighter Adapter Cord

MCC Multi-Unit Conditioning Charger
WPPN4065AR Four-station Base, 110V. (Order adapter plates separately)

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

Tester determines a battery’s delivered capacity by discharging a fully charged battery. ‘LED’ indicates cycle status by turning “ON” when fully charged battery is placed in adapter and “OFF” when discharge is complete. Plug-in adapters allow one console to discharge most batteries. No AC power source required (console is powered by discharging battery).

RLN4201B Single Unit Battery Discharge Tester, Requires Battery Adapter or Cable/Clip Lead
RLN4048A Battery Adapter, MTS 2000
RKN4037A Cable/Clip Lead, 7.5V

VEHICULAR BATTERY ELIMINATOR

The battery eliminator saves useful battery life by drawing power from a vehicle’s battery. Simply replace the portable battery with the battery eliminator and plug in the cigarette lighter adapter.

RLN4335A Vehicular Battery Eliminator

CARRYING ACCESSORIES

Carrying Cases

Carrying cases provide a convenient way to carry your radio while protecting it from the environment. Cases are designed to fit your radio and are determined by the type of battery you select. You may select from durable leather or nylon construction, standard or swivel attachment and a variety of other accessories. The swivel attachment allows the radio to swing freely with body movements.

Standard Carrying Cases

NTN7238A Leather Carry Case with Belt Loop and T-Strap, for High Capacity Battery
NTN7239A Leather Carry Case with Belt Loop and T-Strap for Ultra High Capacity Battery
NTN7247A Nylon Carry Case with Belt Loop for High and Ultra High Capacity Batteries
NDN4018B DTMF Leather Carry Case with Belt Loop for use with high and ultra-high capacity batteries

Swivel Carrying Cases

NTN7241A Leather Carry Case with 2½” Swivel Belt Loop and T-Strap for High Capacity Battery
NTN7242A Leather Carry Case with 2½” Swivel Belt Loop and T-Strap for Ultra High Capacity Battery
NTN7244A Leather Carry Case with 3” Swivel Belt Loop and T-Strap for High Capacity Battery
NTN7245A Leather Carry Case with 3” Swivel Belt Loop and T-Strap for Ultra High Capacity Battery
<table>
<thead>
<tr>
<th>CARRYING ACCESSORIES</th>
<th>CARRYING ACCESSORIES</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>The following carry cases have a new, high activity swivel “D” button and belt loop. Case stays on belt more securely. To remove case from belt loop, rotate case 180° and slide case upward, out of the holder.</strong></td>
<td><strong>MTS 2000 Series</strong></td>
</tr>
<tr>
<td><strong>NTN8035A</strong> Leather Carry Case with High Activity Swivel, 2½” Belt Loop and T-Strap for High Capacity Battery</td>
<td><strong>Portable Accessories</strong></td>
</tr>
<tr>
<td><strong>NTN8036A</strong> Leather Carry Case with High Activity Swivel, 2½” Belt Loop and T-Strap for Ultra High Capacity Battery</td>
<td><strong><a href="http://accesssecure.mot.com/Accesspoint">http://accesssecure.mot.com/Accesspoint</a></strong></td>
</tr>
<tr>
<td><strong>NTN8037A</strong> Leather Carry Case with High Activity Swivel, 3” Belt Loop and T-Strap for High Capacity Battery</td>
<td><strong>223</strong></td>
</tr>
<tr>
<td><strong>NTN8038A</strong> Leather Carry Case with High Activity Swivel, 3” Belt Loop and T-Strap for Ultra High Capacity Battery</td>
<td><strong>3/99</strong></td>
</tr>
<tr>
<td><strong>NTN8039A</strong> 2½” Replacement Swivel Belt Loop for High Activity Swivel Cases</td>
<td><strong>CARRYING ACCESSORIES</strong></td>
</tr>
<tr>
<td><strong>NDN4017B</strong> DTMF Leather Carry Case with High Activity Swivel Belt Loop for use with high and ultra-high capacity batteries</td>
<td><strong>T-Strap</strong></td>
</tr>
<tr>
<td><strong>NTN8040A</strong> 3” Replacement Swivel Belt Loop for High Activity Swivel Cases</td>
<td><strong>NTN5574A</strong> T-Strap for Leather Carry Cases</td>
</tr>
<tr>
<td><strong>NTN1534A</strong> High Activity “D” Button and 2½” Belt Loop</td>
<td><strong>NTN7376A</strong> T-Strap for Nylon Carry Cases</td>
</tr>
<tr>
<td><strong>NTN1535A</strong> High Activity “D” Button and 3” Belt Loop</td>
<td><strong>Belt Loops</strong></td>
</tr>
<tr>
<td><strong>NTN8063A</strong> High Activity “D” Button Replacement</td>
<td><strong>4205857B01</strong> Swivel Belt Loop, 2”</td>
</tr>
<tr>
<td><strong>NTN5243A</strong> Shoulder Carrying Strap Allows Easy Carrying of Radio When Not Wearing a Belt</td>
<td><strong>4205857B01</strong></td>
</tr>
<tr>
<td><strong>NTN5243A</strong> Black Leather Belt, 3”</td>
<td><strong>4282421J06</strong> Swivel Belt Loop, 2½”</td>
</tr>
<tr>
<td><strong>NTN5243A</strong></td>
<td><strong>Belt</strong></td>
</tr>
<tr>
<td><strong>NTN5243A</strong></td>
<td><strong>4205638V04</strong> Belt Clip, 2½”</td>
</tr>
<tr>
<td><strong>NTN5243A</strong></td>
<td><strong>4205638V02</strong> Belt Clip, 3”</td>
</tr>
<tr>
<td><strong>NTN5243A</strong></td>
<td><strong>Belt Clips</strong></td>
</tr>
<tr>
<td><strong>NTN5243A</strong></td>
<td><strong>4200865599</strong> Black Leather Belt, 3”</td>
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<tr>
<td><strong>NTN5243A</strong></td>
<td><strong>Carrying Strap</strong></td>
</tr>
<tr>
<td><strong>NTN5243A</strong></td>
<td><strong>NTN5243A</strong> Shoulder Carrying Strap Allows Easy Carrying of Radio When Not Wearing a Belt</td>
</tr>
</tbody>
</table>
**CARRYING ACCESSORIES**

**Chest Pack**
Carry the radio mounted in a pouch on the chest. Adjustable straps go over shoulders and around waist.

TDN9326A Chest Pack

HLN6602A Universal Chest Pack with Radio Holder, Pen 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”

**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 2¼”

TDN9373A Portable Radio Hanger for Door Panels 2¼” to 3¼”

**AUDIO ACCESSORIES**

**Remote Speaker/Microphones**
Remote Speaker/Microphone allows remote transmit and receive capabilities conveniently while radio remains in the case. These microphones include: 6’ Coiled Cord Assembly, 3.5 mm Earjack, Swivel Clip, and Quick Disconnect Latch.

NMN6193B Remote Speaker/Microphone

NMN6191B Noise Cancelling Remote Speaker Microphone

**Public Safety Speaker/Microphones**
Public Safety Speaker/Microphones include 4.5’ Straight Cord Assembly, 3.5 mm Earjack, Swivel Clip, Quick Disconnect Latch, Antenna Connector, and Receive Audio High/Low Volume Push Button. Antenna must be ordered separately.

NMN6228C Noise-Cancelling Public Safety Speaker/Microphone

**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

### Surveillance Accessories
- **BDN6676B** 3.5 mm Threaded Jack Adapter with Quick Disconnect Latch. Required for use with Above Surveillance Accessories
- **BDN6664A** Beige Earpiece Assembly with Standard Earphone and Urethane Earloop*
- **BDN6726A** Black Earpiece Assembly with Standard Earphone and Urethane Earloop*
- **BDN6665A** Beige Earpiece Assembly with Extra Loud Earphone (exceeds OSHA limits) and Urethane Earloop*
- **BDN6727A** Black Earpiece Assembly with Extra Loud Earphone (exceeds OSHA limits) and Urethane Earloop*
- **BDN6666A** Beige Earpiece Assembly with Volume Control and Urethane Earloop*
- **BDN6728A** Black Earpiece Assembly with Volume Control and Urethane Earloop*
- **BDN667A** Beige Earpiece Assembly with Microphone and Push-To-Talk Combined*
- **BDN6729A** Black Earpiece Assembly with Microphone and Push-To-Talk Combined*
- **BDN6668A** Beige Earpiece Assembly with Microphone and Push-To-Talk Separate*
- **BDN6730A** Black Earpiece Assembly with Microphone and Push-To-Talk Separate*
- **BDN6669A** Beige Extra Loud Earpiece (exceeds OSHA limits) with Microphone and Push-To-Talk Combined*
- **BDN6731A** Black Extra Loud Earpiece (exceeds OSHA limits) with Microphone and Push-To-Talk Combined*
- **BDN6670A** Beige Extra Loud Earpiece (exceeds OSHA limits) with Microphone and Push-To-Talk Separate*
- **BDN6732A** Black Extra Loud Earpiece (exceeds OSHA limits) with Microphone and Push-To-Talk Separate*
- **5080369E38** Standard Earpiece Assembly (Earphone, Earloop, Eartip)
- **5080369E39** Extra Loud Earpiece Assembly (Earphone, Earloop, Eartip)
- **5080369E40** Plastic Urethane Earloop
- **5080369E41** Wire Earloop
- **5080371E69** Small Rubber Eartip
- **5080371E73** Standard Rubber Eartip

*Requires BDN6676 adapter
**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
- **NTN8371A** Low Noise Kit, includes rubber eartip for low noise environments
- **5080384F72** Replacement Foam Plugs. Pack of 50 (for use with NTN8370A)

**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.
- **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

**Flexible Ear Receiver**
- **BDN6719A** Ear Receiver with 3.5 mm threaded plug, to be used with adapter BDN6676

**Pellet Style Earpieces**
- **BDN6780A** Single Earbud with Microphone and Push-To-Talk
- **BDN6781A** Single Earbud, Receive only

**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** 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

**Interface Module**
- **BDN6708B** Push-To-Talk Only Interface Module
- **BDN6671B** Push-To-Talk/Voice-Activated Interface Module

*Factory Mutual approved
**Audio Accessories**

**Optional Accessories**

- 0180358B38* Remote Push-To-Talk Ring Switch
- 0180300B83 Bodyswitch, Push-To-Talk Accessory
- 0180300E25 Earguard with Adjustable Loop; secures ear mic in ear
- 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)

**Heavyduty Headsets**

Heavyduty headsets include Noise-Cancelling 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 Radio Adapter Cable
- BDN6645A Push-To-Talk Headset with Boom Microphone; Requires Adapter Cable BDN6673B
- BDN6635B Voice-activated Headset with Boom Microphone; Requires Adapter Cable BDN6673B

**Access point**

http://accesssecure.mot.com/Accesspoint
### Audio Accessories

**BDN6636B** Voice-activated Headset with Throat Microphone, Requires Adapter Cable BDN6673B

- **Lightweight Headsets**
  - Lightweight headsets have In-Line Push-to-Talk Switch
  - Requires BDN6676B Audio Adapter

- **NMN6245A** Single Speaker Lightweight Headset with In-Line Push-To-Talk Switch
  - Requires BDN6676B adapter

- **NMN6246A** Ultralite Headset with Boom Microphone and In-Line Push-To-Talk Switch
  - Requires BDN6676B adapter

- **NMN1020A** Lightweight Headset with Boom Microphone to be worn on a helmet or safety glasses.
  - Includes NKN6498A adapter cable. Requires BDN6676B adapter. FM approved.

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

### 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.

  - **8505241U05**
    - Flexible Whip, 403-520 MHz, 6”

- **Helical Antennas**
  - Helicals are sturdy and dependable for years of fail safe 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”

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

  - **8505518V01**
    - Wideband, 135-174MHz, 6”

### Replacement Kits

- **REX4395A** 15 Key Cosmetic Replacement Kit
- **REX4396A** 6 Key Cosmetic Replacement Kit
- **REX4397A** Top Display Cosmetic Replacement Kit
## Nickel-Cadmium

- **Part Number:** NTN7143CR  
  - Charge: Rapid  
  - Volts: 7.5V  
  - Avg. MAH: 1200  
  - Height: 6”  
  - FM Rating: (NA)

- **Part Number:** NTN7144AR  
  - Charge: Rapid  
  - Volts: 7.5V  
  - Avg. MAH: 1400  
  - Height: 6”  
  - FM Rating: (NA)

- **Part Number:** NTN7146AR  
  - Charge: Rapid  
  - Volts: 7.5V  
  - Avg. MAH: 1200  
  - Height: 6”  
  - FM Rating: IS & NI

- **Part Number:** NTN7147AR  
  - Charge: Rapid  
  - Volts: 7.5V  
  - Avg. MAH: 1400  
  - Height: 6”  
  - FM Rating: IS & NI

- **Part Number:** NTN7149BR  
  - Charge: Rapid  
  - Volts: 7.5V  
  - Avg. MAH: 1400  
  - Height: 6”  
  - FM Rating: CSA

- **Part Number:** NTN7150A  
  - Charge: Rapid  
  - Volts: 7.5V  
  - Avg. MAH: 1200  
  - Height: 6”  
  - FM Rating: MSHA

## Nickel Metal Hydride

- **Part Number:** WPNN4013A  
  - Charge: Rapid  
  - Volts: 7.5V  
  - Avg. MAH: 2000  
  - Height: 6”  
  - FM Rating: (NA)

- **Part Number:** WPNN4037A  
  - Charge: Rapid  
  - Volts: 7.5V  
  - Avg. MAH: 1900  
  - Height: 6”  
  - FM Rating: IS & NI

## Alkaline

- **Part Number:** NTN8122AR  
  - Charge: (NA)  
  - Volts: 9V  
  - Avg. MAH: (NA)  
  - Height: 6”  
  - FM Rating: (NA)
**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.

*RLN4008B* Radio Interface Box

**Wall Mounted Power Supply**
Used to supply power to radio interface box, RLN4008B.

*0180357A57* Wall Mounted Power Supply, 110 Volts

*0180358A56* Wall Mounted Power Supply, 220 Volts

**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

**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

**Radio Test and Programming Cable**
Used with Portable Radio Test Set, RTX4005B, for transmitter, receiver alignment and performance checks. Also used in programming radio.

*RKN4035D* Radio Test and Programming Cable
# MTS 2000 Series
## Service Aids, Manuals

### 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

#### Test Fixture
Used for troubleshooting radio when housing is removed.

**RLN1018A** Test Fixture

#### 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.

**RVN4097M** Programming Software

#### Key Loader Interface Cable
Interfaces Key Loader to radio for programming.

**TDN9390D** Key Loader Interface Cable

### Reference Manuals

- **6881200C15** Theory and Troubleshooting Manual
- **6881200C25** Maintenance Manual
- **6881200C40** Maintenance Manual
- **6881072C15** Operator Manual I
- **6881072C45** Operator Manual II, III

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[http://accesssecure.mot.com/Accesspoint](http://accesssecure.mot.com/Accesspoint)
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 6.0’ coil cord assembly, 3.5mm earjack, swivel clip and quick disconnect latch.
NMN6193B Remote Speaker Microphone
NMN6191B Noise Cancelling Remote Speaker Microphone

Public Safety Speaker Microphones (PSM)
Public Safety Speaker Microphones include straight cord assembly, 3.5mm earjack, swivel clip, quick disconnect latch, antenna connector, and receiver, audio high/low volume push button. Antenna must be ordered separately. Use radio antennas on page 34.
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

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

Surveillance Kits
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.

Earpiece Assembly with Standard Earphone and Urethane Earloop (1 Wire)
BDN6664A Beige
BDN6665A Beige
BDN6726A Black
BDN6727A Black

Earpiece Assembly (receive only) with Volume Control and Urethane Earloop (1 Wire)
BDN6666A Beige
BDN6728A Black

Earpiece Assembly with Microphone and Push-To-Talk Combined (2 Wire)
BDN6667A Beige
BDN6669A Beige
BDN6729A Black
BDN6731A Black

Earpiece Assembly 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
*Extra Loud Earphone (exceeds OSHA limits)

Surveillance Kit Accessories
5080369E38 Standard Earpiece Assembly (earphone, earloop, eartip)
5080369E39 Extra Loud Earpiece Assembly (earphone, earloop, eartip)
5080369E40 Plastic Urethane Earloop
5080369E41 Wire Earloop
5080371E69 Small Rubber Eartip
5080371E73 Standard Rubber Eartip

http://AccessSecure.mot.com/Accesspoint
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 ear tip for low noise environments
5080384F72 Replacement Foam Plugs; pack of 50 (for use with 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
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

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

BDN6670B* Ear Receiver with 3.5 mm Threaded Plug, requires adapter BDN6676D unless being used with speaker microphone
BDN6671B* Ear Receiver with Voice Activated (VOX), requires adapter BDN6676D unless being used with speaker microphone

Flexible Ear Receiver
BDN6719A Ear Receiver with 3.5 mm Threaded Plug, requires adapter BDN6676D unless being used with speaker microphone
BDN6719A Ear Receiver with Voice Activated (VOX), requires adapter BDN6676D unless being used with speaker microphone

Flexible Ear Receiver with 3.5 mm Threaded Plug, requires adapter BDN6676D unless being used with speaker microphone
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 w/speaker microphone

Optional Accessories For EMS
0180358B38* Remote Push-To-Talk Ring Switch (see photo below)
0180300E83* Remote Push-To-Talk Body Switch
0180300E25 Earguard with Adjustable Loop; secures ear mic in ear
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 Ear tips, black, size medium (10 per pack)
5080358B29 Ear tips, black, size large (10 per pack)
5080358B30 Ear tips, beige, size medium (10 per pack)
5080358B31 Ear tips, beige, size large (10 per pack)
0180358B38 Earholder, black, size small; 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

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

BDN6670B* Push-To-Talk Interface Module
BDN6671B* Push-To-Talk or Voice-Activated Interface Module
*FACTORY MUTUAL APPROVED

Optional Accessories For EMS
0180358B38* Remote Push-To-Talk Ring Switch (see photo below)
0180300E83* Remote Push-To-Talk Body Switch
0180300E25 Earguard with Adjustable Loop; secures ear mic in ear
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 Ear tips, black, size medium (10 per pack)
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5080358B31 Ear tips, beige, size large (10 per pack)

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BDN6670B* Push-To-Talk Interface Module
BDN6671B* Push-To-Talk or Voice-Activated Interface Module
*FACTORY MUTUAL APPROVED
Audio Accessories

CommPort: Integrated Microphone/Receiver System
The 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 (includes BDN6676D 3.5mm Jack Adapter)
- NKN6510A Replacement Cable for NTN1624
- NKN6508A Replacement Cable for NTN1625
- NTN8821A CommPort Maintenance Kit, Includes Replacement Ear Tubes (Quantity 10), Windscreen (Quantity 2) and Microphone Seal Strips (Quantity 10)
- NTN8996A Adhesive Pads (Quantity 90) for secure attachment to ear
- NKN8998A Ear Straps (Quantity 10), for secure attachment to ear
- 4285389801 Replacement Collar Clip
- 4202006A01 Replacement Back Cover Clip

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

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 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
- BDN6636B Voice-activated Headset with Throat Microphone; requires adapter cable BDN6673B; noise reduction rating=24dB
- BDN6673B Radio Adapter Cable

Lightweight Headsets
Lightweight headsets have in-line push-to-talk switch. Requires BDN6676D Audio Adapter.

- NMN6245A Single Muff Lightweight Headset with In-Line Push-To-Talk Switch (requires BDN6676B adapter)
- NMN6246A 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

Heavyduty Headsets
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- BDN6636B Voice-activated Headset with Throat Microphone; requires adapter cable BDN6673B; noise reduction rating=24dB
- BDN6673B Radio Adapter Cable

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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 and battery and permit audio to be heard clearly.

Standard Belt Loop Carrying Cases
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
NTN8038B Leather Carry Case with 2.5” High Activity Swivel Belt Loop and T-Strap for use with ultra-high capacity battery
NDN4017B Leather Carry Case with 3.0” High Activity Swivel Belt Loop and T-Strap for use with high and ultra-high capacity battery

Carrying Case Accessories
T-Strap
NTN7782A T-Strap for leather Carry Cases
NTN7376A T-S strap for nylon carry cases

Belt Loops
NTN8039B 2.5” High Activity Swivel Belt Loop
NTN8040B 3.0” High Activity Swivel Belt Loop

Belt
4200865599 3.0” Wide Black Belt

Carrying Strap
NTN5243A Shoulder Carry Strap, allows easy carrying of radio in a case when not wearing a belt
Swiveller
TDN9684A Swiveller, includes clip button, holster and belt

Swiveller Replacement Accessories
TDN9690A Clip button, mounts on battery
TDN9688A Holster, compatible with all buttons
TDN9687A Belt, 2" nylon

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

Break-A-Way Chest Pack
All of the same features as the original chest pack (HLN6602A) plus break-a-way 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.

RadioPAK™
RLN4831A 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"

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

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### Nickel Cadmium

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### Nickel Metal Hydride

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### Alkaline

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<tbody>
<tr>
<td>NTN8122AR</td>
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### Vehicular Battery Eliminator

The battery eliminator saves useful battery life by drawing power from a vehicle's battery. Simply replace the portable battery with the battery eliminator and plug in the cigarette lighter adapter. RLN4335A Battery Eliminator, vehicular
Batteries and Chargers

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 Desktop Chargers—Rapid Rate

The desktop charger has the power supply built into the base unit and will charge both NiCd and NiMH batteries.

- NTN1168A Rapid Rate Desktop Charger, 110V (supplied with 2 prong cord)
- NTN1169A Rapid Rate Desktop Charger, 220V (supplied with 3 flat prong cord)

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

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.

- NTN1177C Six Pocket, rapid rate, 110V
- NTN1178C Six Pocket, rapid rate, 220V (supplied with 2 prong cord)
- NTN1179C Six Pocket, rapid rate, 240V (supplied with 3 flat prong cord)

MUC Accessories

- NLN7967A Wall Mount

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.

- WPPN4002AR 110V AC Base Charge Unit Only (order adapter plate separately)
- WPPN4006AR 220V AC Base Charge Unit Only (order adapter plate separately)
- WPPN4065AR Multi-Unit Conditioning Charger Four Station Base 110V (order adapter plate separately)

WPPN4004AR 7 Volt Adapter Only

WPLN4090AR MCC Kit, 110V AC; includes both base unit and 7V adapter

WPLN4091AR MCC Kit, 220V AC; includes both base unit and 7V adapter

3080384G1S Cigarette Lighter Adapter Cord; MCC multi-unit conditioning charger

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http://AccessSecure.mot.com/Accesspoint
Battery Maintenance SystemPlus (BMSPlus)
Increase the useful life of your batteries.

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

The BMSPlus 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).

WPLN4079AR Six Station, 110V AC, 50/60 Hz
WPLN4080AR Six Station, 230V AC, 50/60 Hz

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

Battery Optimizing System (BOS)

No other battery analyzer matches the speed, effectiveness, accuracy, versatility and ease-of-use of the Battery Optimizing System. Best of all, the Battery Optimizing System helps lower your battery costs because you will get the maximum performance possible from each battery when it is maintained by the Battery Optimizing System.

- Accommodates NiCd, NiMH, Li-Ion and SLA
- Impedance test checks battery condition in six seconds
- Proprietary recondition cycle restores NiCd and NiMH batteries
- Printer output for reports and labels, computer interface
- High power—programmable from 100mA to 2 amp per station
- Interchangeable adapters accommodate all major batteries
- Simple, intuitive user interface with keypad (adapter sold separately)

WPLN4071AR Four Station, 110V AC, 50/60 Hz
WPLN4073AR Four Station, 230V AC, 50/60 Hz

BMSPlus Adapter
TDN9435C Adapter Compatible with NiCd Batteries Only
CDN6364A Adapter Compatible with Both NiCd and NiMH Batteries

BOS Adapter
RL-72403 Standard Adapter

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Chargers and Antennas

Injection molded for rugged environments. Each antenna is tested and tuned to give maximum power and performance.

**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, 806-869MHz, 7”
- **8505241U04** Flexible Whip, 896-941MHz, 7”

**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”

**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”

**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 broad band antenna that can be used for both 800MHz and 900MHz applications.

- **8505241U06** Stubby, 806-941MHz, 4”

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