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<td>0105956M63</td>
<td>Assembly, Frame; includes:</td>
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<td>1505527P01</td>
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<td>3205141Q02</td>
<td>Gasket, “O” Ring</td>
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<td>0405140Q02</td>
<td>Screw, Phillips; 2-56 x 1/4˝</td>
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<td>*Jack (J2), part of item 9</td>
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<td>*Jack (P2), part of item 66</td>
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<td>*Jack (P1), part of item 88</td>
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<td>108</td>
<td>2005123501</td>
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</table>

**NOTE:** *Not field replaceable, order parent Assembly.*
Rapid/Regular Rate Desktop Chargers
A variety of chargers are available to fit the charging capabilities of your batteries. Choose rapid or regular rate, single unit chargers. The rapid chargers are equipped with red and green lights to indicate rapid charging or charge complete. All desktop units will accept any of the three battery sizes, with or without radio attached.

NTN4636A Desktop, Regular Charge Rate, 220V, 50-60 Hz, (supplied with 2 prong plug)

NTN4633C Desktop, Rapid Charge Rate, 117V

NTN4634B Desktop, Rapid Charge Rate, 220V, 50-60 Hz, (supplied with 2 prong plug)

Compact Chargers
The compact charger provides a 16 hour charge rate. The charger’s small size and weight make it ideal for users who occasionally charge their radio at home.

NTN4666B Compact, Regular Charge Rate, 117V

NTN4667A Compact, Regular Charge Rate, 220V, 50-60 Hz, (supplied with 2 prong plug)

NTN4635B Desktop, Regular Charge Rate, 117V

Multi-Unit Chargers
NTN4668B Multi Unit Desktop, Rapid Rate, 117V AC, 50-60 Hz

NTN4922B Multi-Unit 220V, Rapid Rate

VLN7967A Wall Mount for 6 Unit Charger

Vehicular Chargers
NTN5438A* 12V DC, Vehicular Charger (16 hour charge rate) PAC-RT compatible

NKN6428A 12V Cable Kit. (Only required if not used with a PAC-RT/mobile system)

NTN5368A RF Adapter (Utilizes universal connector, incompatible with audio accessories)

NKN6408A RF Cable Kit (Does not include antenna)

*NNot compatible with Kits NKN6149A, NKN6150A and NKN6151A.
**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).

**Adapters**

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

*Motorola BMS Plus is compatible with the STAR Micronics SP200 series printers, available from any STAR Micronics distributor, and other printers with STAR emulation.

**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.

**MCC Multi-Unit Conditioning Chargers**

- **WPPN4009AR** 110V AC Base Charge Unit with Adapter Plate
- **WPPN4010AR** 220V AC Base Charge Unit with Adapter Plate
- **3080384G15** Cigarette Lighter Adapter Cord

**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).

**Adapters**

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

**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).

**Lead**

- **RLN4201B** Single Unit Battery Discharge Tester, Requires Battery Adapter or Cable/Clip Lead
- **RLN4047A** Battery Adapter, HT 600
- **RKN4038A** Cable/Clip Lead, 10V

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

The Battery Eliminator saves battery life by drawing power from the vehicle’s battery while providing overvoltage protection. Use by sliding eliminator onto radio in place of battery and plugging adapter into cigarette lighter.

**RLN4265A Battery Eliminator, Coil Cord, Cigarette Lighter Adapter**

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**CARRYING ACCESSORIES**

**Belt Loops**

- 4282421J06 Swivel Belt Loop, 2 ¼”
- 4205857B01 Swivel Belt Loop, 2”

**Belt Clip**

- NTN4813B Belt Clip, 1 ¼”
- NTN5389B Belt Clip, 2 ¾”
- NTN5602A Public Safety Full 3” Clip, Black Aluminum

**Belt Clip Carry Holder**

- NTN4814C Belt Clip Carry Holder, fits 2 ¼” Belt
- NTN5827A Belt Clip Carry Holder, fits 3” Belt

**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 ¼”
- TDN9373A Portable Radio Hanger, for Door Panels 2¾” to 3 ¼”

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**Carrying Cases**

A variety of carrying accessories are available for your comfort and convenience. The carrying cases are made of top quality leather and are available in sizes designed to fit your radio and battery. Cases are available with standard belt loop or swivel back covers, with a restraining T-strap.

**Standard**

- NTN5460B Leather Carry Case with T-Strap and Spacer, for High or Medium Capacity Battery (Snap)

**Swivel**

- NTN5461B Leather Carry Case with T-Strap, Spacer and 2 ¼” Belt Loop, for High or Medium Capacity Battery (Snap)
- NTN5883A Leather Carry Case with T-strap, Spacer, and Belt Loop, for High or Medium Capacity Battery (Snap), fits 3” Belt
- NTN5450B Leather DTMF Swivel Carry Case, Long (Snap), fits 2 ¼” Belt
- NTN5884A Leather DTMF Carry Case, Long (Snap), fits 3” Belt
CARRYING ACCESSORIES

**Carrying Strap**
- NTN5243A Carrying Strap, Black

**Belt**
- 4200865599 2” Wide Leather Belt, for all models

**T-Straps**
- 4205386S03 T-strap, Nylon for Leather Carrying Cases (Snap)
- 4205386S01 T-strap, Nylon for Leather Carrying Cases (Velcro)

**Spacer**
- Enables light capacity battery to fit in a small case and medium capacity battery to fit in a medium case. Spacer is included in every carry case.
- 4305525R02 Spacer (spare)

**Button Back Cover**
- NTN5497A T-Bar Button Back Cover Kit, Black (order swivel belt loop separately)

CARRYING ACCESSORIES

**Universal Carry Accessories**
- HLN6602A Universal Chest Pack with Radio Holder, Pen Holder and Velcro Secured Pocket
- 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 Microphone**
- NMN6145B Remote Speaker Microphone with Clip, Coil Cord and 2.5 mm Earphone Jack
- NMN6156B Remote Speaker/ Microphone with Clip and Coil Cord
- NTN5493A UHF Public Safety Remote Speaker Microphone with Clip Back and Straight Cord (Order required antenna separately)

http://accesssecure.mot.com/Accesspoint
AUDIO ACCESSORIES

NTN5050A UHF Public Safety Speaker Microphone with velcro back and straight cord (order antenna and velcro patch separately)

**Antennas for Public Safety Microphones**

- 8505355K03 .......400-440 MHz
- 8505355K04 .......440-470 MHz
- 8505309N11 .......470-512 MHz

NLN8410A Velcro pin attachment

**Ear Piece**

- 5083693B01 Earphone and volume control (requires NTN4812B)
- 5083693B04 Earpiece and Volume Control (2.5 mm)
- 5880378B84 2.5 to 3.5 Jack Adapter
- 5880380B35 3.5 to 2.5 Jack Adapter
- NTN4812B Earphone Jack Adapter

**Surveillance**

- ZMN6031A Three wire surveillance accessory with earpiece, microphone and push-to-talk as separate pieces. Factory Mutual Approved. Requires NTN5075B
- ZMN6032A Two wire surveillance accessory with earpiece, microphone and push-to-talk. Microphone and PTT are combined. Factory Mutual Approved. Requires NTN5075B

**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

**Ear Mikes**

Single unit microphone and speaker worn in the ear. Eliminates the need for handheld microphones or conventional headsets. Compact, rugged design allows use under hearing protectors and protective clothing. Order cable separately.

- RMN4001B Ear Mike, EM200
- 0180359A39 Interface Cable for HT600
- 0180359A51 Optional PTT Ring Switch for RMN4001A only
- 0180356B97 Optional PTT Ring Switch for RMN4001B Only
AUDIO ACCESSORIES

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 Modules
BDN6656B* Push To-Talk Interface Module
BDN6657B* Voice-Activated Interface Module

Optional Accessories
0180300E25 Earguard with Adjustable Loop
0180358B38* Remote Push-To-Talk Ring Switch
0180358B32 Earholders, Black, Size Small; Secures microphone in ear
0180358B33 Earholder, Black, Size Medium; Secures microphone in ear
0180358B34 Earholder, Black, Size Large; Secures microphone in ear
0180358B35 Earholder, Clear, Size Small; Secures microphone in ear
0180358B36 Earholder, Clear, Size Medium, Secures microphone in ear
0180358B37 Earholder, Clear, Size Large; Secures microphone 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)

AUDIO ACCESSORIES

Headsets
High noise level headset (up to 125 dB) with noise cancelling microphone and push-to-talk switch located on ear cup. 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 Radio Adapter Cable for BDN6635, BDN6636 and BDN6645

BDN6645A Push-To-Talk Headset with Boom Microphone, Requires Adapter Cable.

BDN6635B Voice-Activated Headset with Boom Microphone, Requires Adapter Cable, Includes 110V Charger

BDN6636B Voice-Activated Headset with Throat Microphone, Requires Adapter Cable, Includes 110V Charger

RMN4015A Lightweight Headset with Swivel Boom Microphone, single speaker and in-line PTT

0180357B05 Spare Vox Headset Charger
6881126E79 Instruction Manual for BDN6645A
6881126E78 Instruction Manual for BDN6635B and BDN6636B

*Factory Mutual approved
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.

**NTN5612A** Basic MVA console, includes Power Cables and Mounting Hardware.

**NSN6054A** 12-watt External Speaker

**HMN1035C** Microphone, Heavy-Duty Palm

**HMN1056D** Microphone, Compact Palm

**HMN3013A** Microphone, DTMF

PORTABLE ANTENNAS

### Heliflex Antenna

Motorola Heliflex antennas are specifically engineered for maximum output and greatest communication coverage.

- **8505816K01** Heliflex Molded, 136-150.8 MHz, 6.5"
- **8505816K03** Heliflex Molded, 150.8-162 MHz, 6"
- **8505816K05** Heliflex Molded, 162-174 MHz, 6"
- **8505816K07** Heliflex Molded, 403-433 MHz, 3"
- **8505816K08** Heliflex Molded, 450-470 MHz, 3"
- **8505816K09** Heliflex Molded, 470-512 MHz, 3"

### Flexible Whip

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.

- **8505247K06** Flexible Whip, 403-512 MHz, 5.5"
PORTABLE BATTERIES

**Nickel-Cadmium**
- **Part Number:** NTN4564B
- **Charge:** Rapid
- **Volts:** 10V
- **Avg. MAH:** 550
- **Height:** 2 7/16”
- **FM Rating:** IS
- **Height:** 2 7/16”

- **Part Number:** NTN4584BR
- **Charge:** Rapid
- **Volts:** 10V
- **Avg. MAH:** 630
- **Height:** 2 7/16”
- **FM Rating:** NI

- **Part Number:** NTN5414BR
- **Charge:** Rapid
- **Volts:** 10V
- **Avg. MAH:** 1100
- **Height:** 3 5/16”
- **FM Rating:** NI

- **Part Number:** NTN5415B*
- **Charge:** Rapid
- **Volts:** 10V
- **Avg. MAH:** 1000
- **Height:** 3 5/16”
- **FM Rating:** IS

**Nickel Metal Hydride**
- **Part Number:** NTN7016A
- **Charge:** Rapid
- **Volts:** 10V
- **Avg. MAH:** 950
- **Height:** 2 7/16”
- **FM Rating:** (NA)

*Factory Mutual approved for Intrinsically Safe Models

ALIGNMENT TOOL

**6605106N01** Tuning Tool, Adjusts Tunable Coils, Preselector, Reference Oscillator Frequency and Trimmer Capacitors

**SERVICE TOOLS**

- **RSX4043A** Torque Screwdriver, Order Bits Separately
- **6680321B86** #0 Phillips Bit for Radio Screws
- **6680321B79** #1 Phillips Power Bit for Radio Screws
- **6680370B95** Spanner Tool Bit for Toggle Switch Nut
- **6680371B34** Spanner Bit for Antenna Bushing
- **6680371B03** Nut Driver Bit for Volume Control and Frequency Select Switch

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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 Battery Eliminator

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

1580368B62 Battery Adapter

Cloning Cable
Enables the frequencies, squelch codes, squelch and deviation settings to be duplicated from one radio to another. Only identical models and sub-models are compatible for cloning.

NKN6376A Cloning Cable

Radio Test and Programming 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

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 a 9 volt snap type battery (6082728J01), order separately.

RLN4008B Radio Interface Box

Computer Interface Cable
Used to connect computer’s serial adapter to radio interface box.

3080369B71 Cable, RIB to 25 pin D
3080369B72 Cable, RIB to 9 pin D

Antenna Adapters
NTN5368A Adapter for HT600
NKN6408A Cable Adapter for HT600
### SERVICE AIDS

**Controller Flex Extender**

Allows access to all electrical points on the controller flex and the interior of the RF board for troubleshooting purposes.  
REN4000A  Controller Flex Extender

**Wall Mounted Power Supply**

Used to supply power to the radio interface box, RLN4008B  
0180357A57  Wall Mounted Power Supply, 110 Volts  
0180358A56  Wall Mounted Power Supply, 220 Volts

**Field Modification Kit**

Allows for quick field modification of RTX4005 “A” test sets to provide operation with the HT600 Radio.  
RPX4665A  Field Modification, RTX4005A

**Programming Aid**

Enables programming of the DTMF pad from outside of HT600 DTMF optioned radios.  
0180358A59  Programming Aid

**Programming Software**

Utilizing your personal computer, this software enables you to add or reprogram frequencies as your requirements change.  Compatible with IBM, XT, AT, Model 30 50, 60 and 80. Requires Radio Interface Box and proper cables, order separately.  
RVN4005G  Programming Software, 3½” diskettes (includes manual and software box)

### SERVICE MANUALS

6881065C75  Service Manual

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