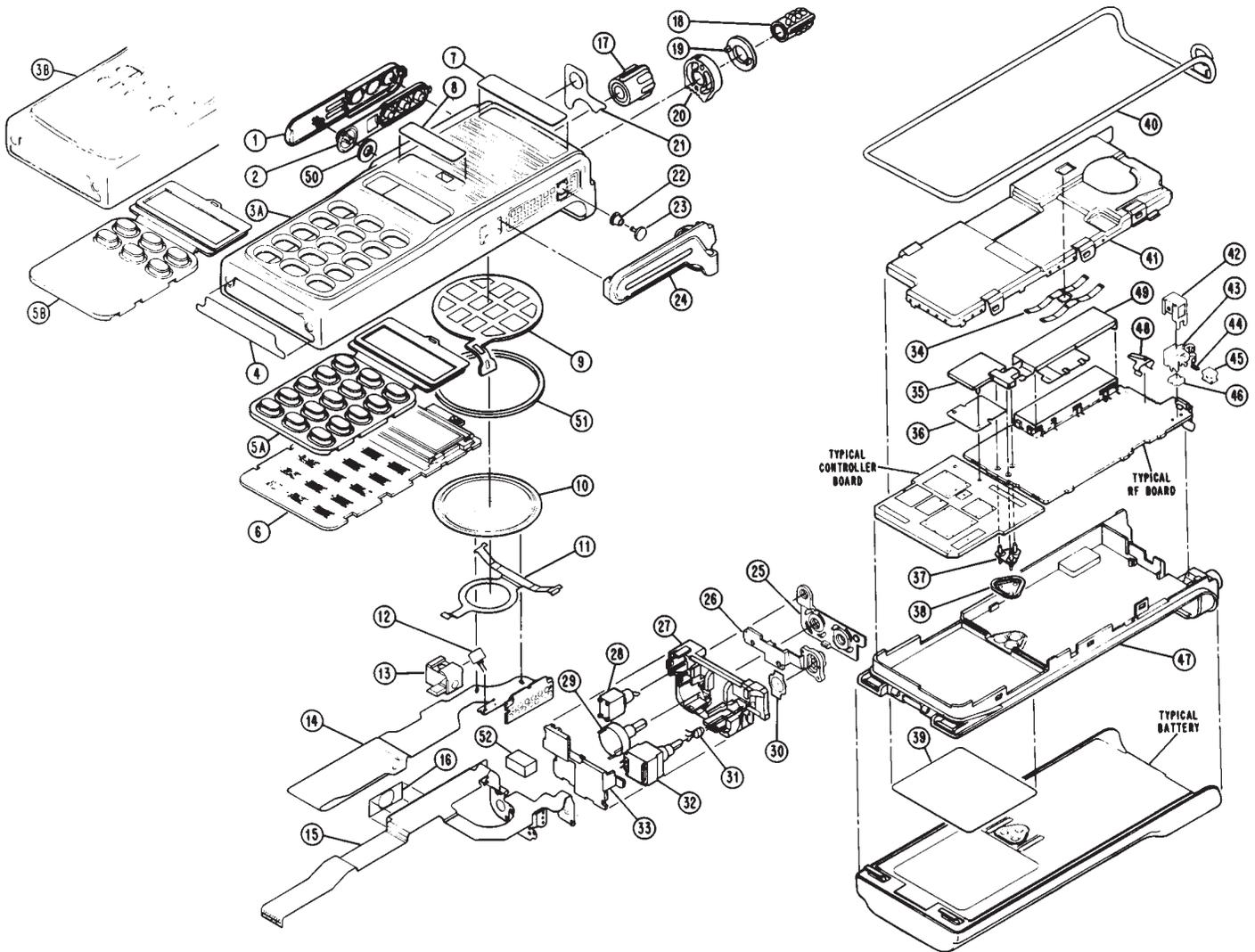




MOTOROLA

MT 2000 Series

Parts List



**MOTOROLA**

MT 2000 Series

Parts List

REF. NO.	PART NO.	DESCRIPTION
1	4505896U01	Lever, PTT
2	3205902U01	Seal, PTT, and Actuator for S404, S405, S406 and S408
3A	1505637V04	Cover, Front; Full Keypad
3B	1505627V04	Cover, Front; Limited Keypad
4	----	Label, Agency Approval; not field replaceable
5A	7505870U01	Keypad, 15-key
5B	7505870U02	Keypad, 6-key
6	5105238U83	Module, Display
7	3305183R55	Label, Motorola
8	3305183R70	Label, MT2000
9	3505535X02	Felt, Speaker
10	See Note 1	Speaker (LS401)
11	0705470V01	Bracket, Speaker Retainer
12	See Note 1	Microphone (MK401)
13	1405330W02	Boot, Microphone
14	8405310W04	FLEX, Front Cover/Display
15	8405333W02	FLEX, Controls
16	3905517V01	Popple, PTT (p/o S406)
17	3605253V01	Knob, On/Off/Volume
18	3605636V01	Knob, Frequency
19	1305633V01	Ring, Concentric; Escutcheon
20	3605635V01	Knob, Concentric Ring
21	1305698V01	Escutcheon, Control Top
22	3205160W01	Seal, Actuator; for S101
23	2205159W01	Pin, Actuator; for S101
24	3205514W01	Seal, Accessory Connector
25	3205177Z01	Seal, Control Top
26	3205178Z01	Seal, Emergency Button
27	2705877U01	Housing, Switch
28	See Note 1	Switch, Toggle (S402)
29	See Note 1	Potentiometer/Switch, On/Off/Volume Control (R401/S403)

REF. NO.	PART NO.	DESCRIPTION
30	3905329W01	Popple, Emergency Button
31	See Note 1	LED (CR702A/CR702B)
32	See Note 1	Switch, Frequency (S401)
33	1505632V01	Cover, Switch Housing
34	----	Spring, PA; not field replaceable, order front shield
35	4205507X01	Strain Relief
36	8405247V01	FLEX, Jumper
37	See Note 2	Plug, Connector, (P404)
38	3205820V01	Seal, Connector Plug
39	----	Label, Rear; Information; not field replaceable
40	3205176Z01	"O" Ring, Contoured/Seal, Antenna
41	2605891U02	Shield, Front
42	0705856V01	Bracket, RF Switch
43	1505520V01	Housing, RF Switch
44	4105266V01	Spring, RF Switch
45	4405524V01	Piston, RF Switch
46	8405523V01	Circuit Board, RF Switch
47	1505892U06	Chassis (Rear Cover)
48	3905838V01	Contact, Antenna Shield Ground (800 MHz and 900 MHz radios only)
49	2605898U01	Shield, PA (800 MHz and 900 MHz radios only)
50	0405717W01	Washer, PTT Seal
51	4305716W02	Spacer, Speaker
52	7505393N33	Pad, Shock

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.



MOTOROLA

MT 2000 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. Rapid rate chargers fully charge the battery in less than three hours. Standard rate chargers fully charge the battery in approximately 16 hours. All chargers are specifically designed to meet the requirements of the radio's batteries.

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*

NTN1172A Compact, 220 Volts (supplied with 2 prong cord)**

NTN1173A Compact, 240 Volts (supplied with 3 flat prong cord)**



NTN1172A

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)**

CHARGERS

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



NTN1177C

Vehicular Charger

TDN9816A Vehicular Charger for Nickel-Cadmium Battery

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 U.K. 3 Prong Line Cord, 240V

*Underwriters Laboratory Approved

**VDE Approved



MOTOROLA

MT 2000 Series

Portable Accessories

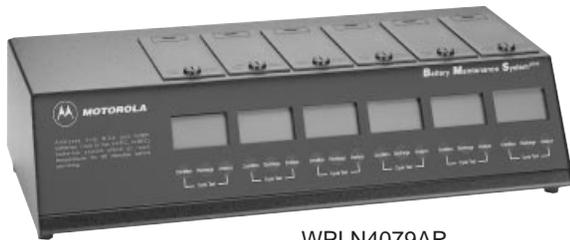
BATTERY MAINTENANCE SYSTEM^{PLUS} (BMS Plus)

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



WPLN4079AR

Adapter

TDN9435C Standard Adapter, MT 2000

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

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

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

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

Adapter

RL-72403 Standard Adapter, MT 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)



MOTOROLA

MT 2000 Series

Portable Accessories

BATTERY DISCHARGE TESTER



RLN4201B

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, MT2000

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

RLN4335A Battery Eliminator, Vehicular

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 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



NTN7247A

Swivel Carrying Cases

NTN7241A Leather Carry Case with 2½" Swivel Belt Loop and T-Strap for High Capacity Battery

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.

NTN8035A Leather Carry Case with High Activity Swivel, 2½" Belt Loop and T-Strap for High Capacity Battery

NTN8036A Leather Carry Case with High Activity Swivel, 2½" Belt Loop and T-Strap for Ultra High Capacity Battery



NTN8036A



MOTOROLA

MT 2000 Series

Portable Accessories

CARRYING ACCESSORIES

NTN8037A Leather Carry Case with High Activity Swivel, 3" Belt Loop and T-Strap for High Capacity Battery

NTN8038A Leather Carry Case with High Activity Swivel, 3" Belt Loop and T-Strap for Ultra High Capacity Battery

NTN8039A 2½" Replacement Swivel Belt Loop for High Activity Swivel Cases



NTN8038A



NTN8039A

NTN8040A 3" Replacement Swivel Belt Loop for High Activity Swivel Cases

NTN1534A High Activity "D" Button and 2½" Belt Loop

NTN1535A High Activity "D" Button and 3" Belt Loop

NTN8063A High Activity "D" Button Replacement

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

Swiveller

TDN9684A Swiveller, includes clip button, holster, and belt

TDN9690A Clip Button, mounts on battery

TDN9688A Holster, compatible with all buttons

TDN9687A 2" Side Nylon Belt



NTN9684A

CARRYING ACCESSORIES

T-Strap

NTN5574A T-Strap for Leather Carry Cases

NTN7376A T-Strap for Nylon Carry Cases



NTN5574A

Belt Loops

4205857B01 Swivel Belt Loop, 2"

4282421J06 Swivel Belt Loop, 2.5"

Belt Clips

4205638V04 Belt Clip, 2.5"

4205638V02 Belt Clip; 3"



4205638V04

Belt

4200865599 Black Leather Belt, 3"



4200865599



NTN5243A

Carrying Strap

NTN5243A Shoulder Carrying Strap allows easy carrying of radio in a case when not wearing a belt.



MOTOROLA

MT 2000 Series

Portable Accessories

CARRYING ACCESSORIES

Chest Pack

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



TDN9326A

TDN9326A Chest Pack

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

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

TDN9327A Portable Radio Hanger for Door Panels up to 2¾"

TDN9373A Portable Radio Hanger for Door Panels 2¾" 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: 6.0' Coiled Cord Assembly, 3.5 mm Earjack, Swivel Clip, and Quick Disconnect Latch.



NMN6193B

NMN6193B Remote Speaker Microphone

NMN6191B Noise Cancelling Remote 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

RLN4294A Epaulet Strap, Velcro

RLN4295A Epaulet Strap, Small Clip



RLN4295A



MOTOROLA

MT 2000 Series

Portable Accessories

AUDIO ACCESSORIES

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

Surveillance Accessories

BDN6664A Beige Earpiece Assembly with Standard Earphone and Urethane Earloop



BDN6664A

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

BDN6666A Beige Earpiece Assembly with Volume Control and Urethane Earloop

BDN6728A Black Earpiece Assembly with Volume Control and Urethane Earloop



BDN6667A

BDN6667A Beige Earpiece Assembly with Microphone and Push-To-Talk Combined

AUDIO ACCESSORIES

BDN6729A Black Earpiece Assembly with Microphone and Push-To-Talk Combined



BDN6668B

BDN6668B 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*

BDN6676B Jack Adapter with Quick Disconnect Latch. Required for use with Above Surveillance 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

Flexible Ear Receiver

BDN6719A Ear Receiver with 3.5 mm threaded plug, requires adapter BDN6676



BDN6719A

Pellet Style Earpieces

BDN6780A Single Earbud with Microphone and Push-To-Talk**

BDN6781A Single Earbud, Receive only**

*Requires BDN6676 adapter

**Factory Mutual approved



MOTOROLA

MT 2000 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

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.

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

*Factory Mutual approved

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



BDN6677A

Interface Module

BDN6708B* Push-To-Talk Interface Module

BDN6671B* Voice-Activated Interface Module

BDN6708B



Optional Accessories

0180358B38* Remote Push-To-Talk Ring Switch

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



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



MOTOROLA

MT 2000 Series

Portable Accessories

AUDIO ACCESSORIES

- 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.



BDN6645A
(shown with BDN6673B)

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



BDN6635B
(shown with BDN6673B)



BDN6636B
(shown with BDN6673B)

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

AUDIO ACCESSORIES

Lightweight Headsets

Lightweight headsets have in-line push-to-talk switch. Requires BDN6676B Audio Adapter.



NMN6245A

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



NMN6246A

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 BDN6676B adapter. FM approved.

NKN6498A Headset Adapter Cable for use with NMN1020A.



MOTOROLA

MT 2000 Series

Antennas

PORTABLE 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"



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"



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"



REPLACEMENT KITS

REX4395A 15 Key Cosmetic Replacement Kit

REX4396A 6 Key Cosmetic Replacement Kit

REX4397A Top Display Cosmetic Replacement Kit

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



MOTOROLA

MT 2000 Series

Batteries

PORTABLE BATTERIES

Nickel-Cadmium

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



NTN7143CR

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



NTN7147AR

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

PORTABLE BATTERIES

Part Number: **NTN7341AR**
Charge: Rapid
Volts: 7.5V
Avg. MAH: 1400
Height: 6"
FM Rating: IS & NI



NTN7341AR

Part Number: **NTN7372AR**
Charge: Rapid
Volts: 7.5V
Avg. MAH: 1300
Height: 6"
FM Rating: IS & NI



WPNN4013A

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)



MOTOROLA

MT 2000 Series

Service Aids

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, RLN4008B

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

SERVICE AIDS

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



RLN4008B

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



MOTOROLA

MT 2000 Series

Service Aids, Manuals

SERVICE AIDS

Test Fixture

Used for trouble shooting 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

REFERENCE MANUALS

6881200C15	Theory and Troubleshooting Manual
6881200C25	Service Manual
6881200C40	Maintenance Manual
6881076C65	Operator Manual

mt2000 / mt32000

HT1000, JT1000, MTX8000 & MTX9000 (Also Compatible)

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



NMN6193B

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



RLN4294A



RLN4295A

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*



BDN6667A

Earpiece Assembly with Microphone and Push-To-Talk Separate (3 Wire)

BDN6668A Beige

BDN6670A Beige*

BDN6730A Black

BDN6732A Black*



BDN6668A

BDN6676D 3.5mm Jack Adapter with Quick Disconnect Latch

*Extra Loud Earphone (exceeds OSHA limits)



1-WIRE



2-WIRE



3-WIRE

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

mt 2000 / mt 32000

HT1000, JT1000, MTX8000, MTX9000 (Also Compatible)

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)



NTN8370A

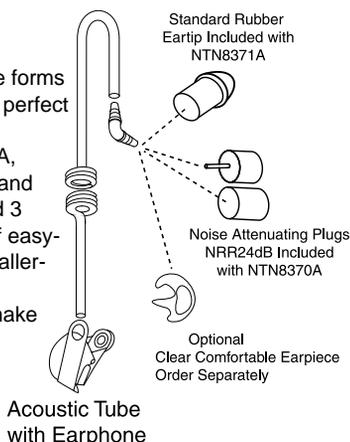
Clear Comfortable Earpiece

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

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 95dB0, black)

BDN6678A* Ear Microphone for Standard Noise Levels

(up to 95dB0, beige)

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

*FACTORY MUTUAL APPROVED



BDN6641A

Interface Module For EMS

BDN6708B* 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 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)



BDN6708B



0180300E25



0180358B33



0180358B38

Flexible Ear Receiver

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



BDN6719A

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 w/speaker microphone

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), Windscreens

(Quantity 2) and Microphone Seal Strips (Quantity 10)

NTN8986A Adhesive Pads (Quantity 90) for secure

attachment to ear

NTN8998A Ear Straps (Quantity 10), for secure attachment to ear

4285838B01 Replacement Collar Clip

4202006A01 Replacement Back Cover Clip



NTN1624A

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.



NMN6245A



NMN6246A

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

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



BDN6645A
(shown with BDN6673B)



BDN6635B
(shown with BDN6673B)



BDN6636B
(shown with BDN6673B)

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mt2000 / mt32000

HT1000, JT1000, MTX8000, MTX9000 (Also Compatible)

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



NTN7247A



NTN8038A

NTN8036A

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 trap 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



420086599

Carrying Strap

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



NTN5243A



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Carrying Accessories

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



TDN9684A



TDN9687A

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-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.

RLN4570A Break-A-Way Chest Pack



RLN4570A

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TDN9327A

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"



RLN4815A

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"

mt2000/mts2000

HT1000, JT1000, MTX8000, MTX9000 (Also Compatible)

Nickel Cadmium

Part Number: NTN7143CR
 Capacity: High
 Avg. mAh: 1200
 Part Number: NTN7144AR
 Capacity: Ultra High
 Avg. mAh: 1400
 Part Number: NTN7146AR
 Capacity: High
 Avg. mAh: 1200
 FM Rating:* IS & NI
 Part Number: NTN7147AR
 Capacity: Ultra High
 Avg. mAh: 1400
 FM Rating:* IS & NI
 Part Number: NTN7149BR
 Capacity: Ultra High
 Avg. mAh: 1400
 FM Rating:* CSA

Part Number: NTN7150AR
 Avg. mAh: 1200
 FM Rating:* MSHA
 Part Number: NTN7341AR
 Capacity: Ultra High
 Avg. mAh: 1400
 FM Rating:* IS & NI
 Part Number: NTN7372AR
 Capacity: Ultra High
 Avg. mAh: 1300
 FM Rating:* IS & NI

FM Rating:*
 IS = Intrinsically Safe
 NI = Non Incendiary CSA-MSHA

Nickel Metal Hydride

Part Number: WPNN4013A
 Capacity: Ultra High
 Avg. mAh: 2000
 FM Rating: (NA)

Part Number: WPNN4037A
 Avg. mAh: 1900
 FM Rating: IS & NI

Alkaline

Part Number: NTN8122AR
 Volts: 9V, 12 Cell Battery Pack



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



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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.



NTN1168A

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

NTN1169A Rapid Rate Desktop Charger, 220V (supplied with 2 prong cord)

NTN1170A Rapid Rate Desktop Charger, 240V (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

NTN1177C



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



WPPN4002AR

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mt2000 / mts2000

HT1000, JT1000, MTX8000, MTX9000 (Also Compatible)



WPLN4079AR

Battery Maintenance System^{Plus} (BMS^{Plus})

Increase the useful life of your batteries.

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

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



TDN9435C

BMS^{Plus} Adapter

TDN9435C Adapter Compatible with NiCd Batteries Only

CDN6364A Adapter Compatible with Both NiCd and NiMH Batteries

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



WPLN4071AR

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"



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