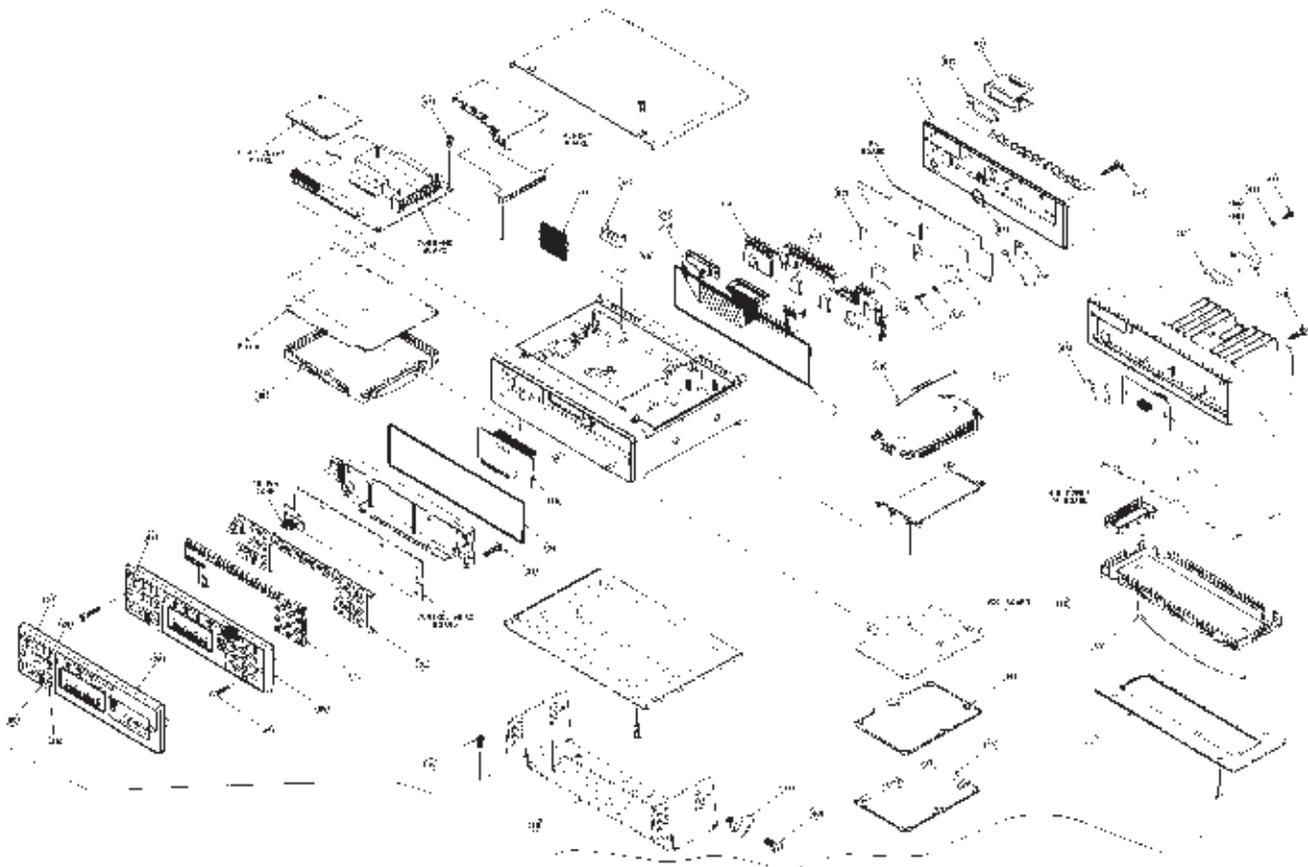




MOTOROLA

SPECTRA Series

Parts List



**MOTOROLA****SPECTRA Series****Parts List**

REF. NO.	PART NO.	DESCRIPTION
1	2680010M02	Heatsink, 30-watt
2	2680009M02	Heatsink, 12-watt
3	2680105N01	Shield, 30-watt PA board
4	2680011M01	Shield, 12-watt PA board
5	1580048N01	Cover, 30-watt PA
6	2680013M01	Shield, power module
8	3280038N01	Gasket, heatsink
11	1580098L01	Shield, receiver front end
12	1580097L01	Cover, VCO board
14	3280247N01	Gasket, VCO
15	1580099L01	Shield, RF board
17	2880260M01	Header, floating
18	4280007M01	Clip, regulator
22	3080239N02	Cable, PA ribbon
25	1580112L01	Housing, front cover, with keypad
26	1580112L02	Housing, front cover, without keypad
27	3805670X04	Pushbutton Rocker, "MODE"
28	3805670X03	Pushbutton Rocker, "VOLUME"
29	3880092J01	Key, "DIM"
30	3880092J02	Key, "HOME"
31	7580189L03	Keypad
33	0310945A14	Screw, tapping; 6 used
34	3280289L02	Gasket, housing
37	0380160E01	Screw, machine, wing (5.0 x 0.8 x 10)
38	0780086N01	Trunnion, mounting
39	0300136756	Screw, tapping, instl hrdwr (10-16 x $\frac{5}{16}$) (6)
40	0310908B08	Screw, machine, instl hrdwr (5.0 x 0.8 x 10) (4)

REF. NO.	PART NO.	DESCRIPTION
41	0310911A11	Screw, machine (3.0 x 0.5 x 8.0); 12W-3 , 30W-5 used
42	0310943M15	Screw, tapping (3.5 x 0.6 x 8.0) (board mtg)
44	0380043L01	Screw, metric (3.0 x 10); 44 used
45	0380077M01	Screw, control head mount; 2 used
46	0380077M02	Screw, hex socket (30-watt); 2 used
47	0380077M03	Screw, hex socket (12-watt); 2 used
48	0380114M01	Screw (3.5 x 0.6 x 46)
49	0400131974	Washer, flat (.130 x .312 x .030); 2 used
50	0480017F01	Washer, pivot; 2 used
51	7582200H01	Pad; 3 used
52	0480217E01	Washer, compression; 3 used
53	0484180C01	Washer, shoulder
55	0980092M01	Connector, POW
56	1480001M01	Insulator, regulator
58	1480179A01	Insulator, alumina
60	2680186M01	Shield, 30-watt PA
61	3280015M01	Gasket, power connector
62	3280088M01	Gasket, accessory connector
64	3880227M04	Cap. On/Off Switch
65	4280016M03	Clip, accessory connector
67	4280265M02	Clip, coax, 12-watt PA; 2 used
69	5584300B01	Handle; 8 used
70	5584300B04	Handle
71	6180017S01	Lightpipe
72	6480108R01	Assembly, PA feedthrough, 30-watt



MOTOROLA

SPECTRA Series

Mobile Accessories

MICROPHONES



HMN1052A

A variety of microphones are available to customize your radio to meet your requirements.

HMN1052A Standard Palm Microphone

HMN1050C Desk Top Microphone (for Control Station Operation)

HMN1053A DTMF Microphone

MOUNTING HARDWARE



HLN6025A

Full mounting flexibility is offered. In addition to the standard key lock mount, remote mount is available. Remote mount allows installation of radio under the seat, in the trunk or anywhere within 17 feet of the control unit.

HLN6025A Key Lock Mount

HLN6008A Remote Mount Kit, with 17 foot Cable

HANDSET

Provides added privacy.

HLN1220B Handset with Hang-Up Box



HLN1220B

Quick Release Slide Mounts

The quick release slide mounts are easy to install and are available with a variety of mounting brackets which allow installation in any location within a vehicle.

RLN4074A Quick Release Slide Mount Kit; Includes Radio Mount (RLN4075A), Vehicle Mount (RLN4076A), and Mounting Hardware.

RLN4075A Radio Mount Only, with Hardware

RLN4076A Vehicle Mount Only, with Hardware

RLN4077A Angle Bracket with 20° Fixed Angle and 50° Swivel

RLN4078A Flat Bracket with 50° Swivel

SPEAKER



HSN4018B

HSN4018B Standard External Speaker

TDN6254A Speaker Siren. Round with Grey Finish

TDN6251A Speaker Siren. Chrome Finish

TDN6252A Speaker Siren. Rectangular with Chrome Finish

TDN6253A Speaker Siren. Underhood with Grey Finish



MOTOROLA

SPECTRA Series

Mobile Accessories

EMERGENCY SWITCH

Emergency Button and Footswitch

Enables user to send an emergency message to a console, where their unit ID can be displayed and an alarm sounded.

HLN5131B External Emergency Button

HLN5113B Emergency Footswitch

AUXILIARY SWITCH PANEL

Supplemental bank of eight switches used to control any of the electrical functions in the vehicle.

HLN1224B Auxiliary Switch Panel

CABLE KITS

HKN4191B Used with VHF, UHF and 900 MHz Dash Mount

HKN4192B Used with VHF, UHF and 900 MHz Remote Mount

HKN4356B 17' Remote Cable with Orange-Green Leads

HLN4952A Fuse Kit for Orange-Green Leads

HKN4051A 40 Amp and Fuse Holder for 110 watt VHF

HKN6039A Used with 110 watt VHF

3080091M01 Ignition Switch Power Cable

CONTROL STATION ACCESSORIES

HPN4001B Control Station Power Supply

HKN4139A Power Cable

HLN6042A Control Station Tray

FIELD RETROFIT KITS

Remote Mounting Kit

H1446A A4, A5, A7 Clear Package

A4, A5, A7 and A9 Model Options

H1336A Electronic Siren/PA (A4, A5, A7, A9)

H1500A Keypad Siren/PA (for A9 Models Only)

H1337A PA Only

H1338A Eight Status/Message

H1339A Eight Status/Eight Message

Direct Mode Entry Field Retrofit Kits

H1615A DEK Modes 1-8

H1616A DEK Modes 9-16

H1617A DEK Modes 17-24



MOTOROLA

SPECTRA Series

Antennas, Service Tools

ANTENNAS



RRA4935A

Part Number: **RRA4935A**
 Frequency: 890-960 MHz
 Power: 150 watts, maximum
 Gain: 3dB, nominal
 VSWR: Less than 1.5:1
 Impedance: 50 ohms, nominal
 Mounting Kit: Roof Mount with 14' RG58A/U Coaxial Cable and Mini-UHF Connector

Part Number: **RRA4934A**
 Frequency: 890-960 MHz
 Power: 150 watts, maximum
 Gain: Unity, nominal
 VSWR: Less than 1.5:1
 Impedance: 50 ohms, nominal
 Mounting Kit: Roof Mount with 14' RG58A/U Cable and Mini-UHF Connector

BATTERY CABLE ADAPTER

6680388A13 Side Mount Battery Cable Adapter



6680388A13

SERVICE TOOLS



RSX4043A

Torque Screwdriver

Measures the amount of torque being applied. Recommended for precise radio assembly. Bits must be ordered separately.

RSX4043A Adjustable Torque Screwdriver

6680387A70 T-6 Torx Bit

6680387A72 T-8 Torx Bit

6680387A74 T-10 Torx Bit

6680387A75 T-15 Torx Bit

6680387A77 T-25 Torx Bit



6680387A70



6680387A74

Magnetic Screwdriver

0180320B16 Magnetic Screwdriver Set with Bits



MOTOROLA

SPECTRA Series

Service Tools, Aids

SERVICE TOOLS



6680163F01

Insertion and Extraction Tool

Installs and/or removes wires from accessory connector.

6680163F01 Insertion and Extraction Tool

Hex L-Shaped Key Set

Recommended for front panel and PA removal/installation. 10 piece set from 1.27mm to 6mm.

0180370B87 Metric Hex L-Shaped Key Set

Crimping Tool

For custom installations requiring crimping of Mini-UHF RF connector

6680388A26 Crimping Tool



6680388A26

Anti-Static Grounding Kit

0180386A82 Anti-Static Grounding Kit

SERVICE AIDS

Programming Software

Utilizing your personal computer, the 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 appropriate cables; must be ordered separately.

Conventional

RVN4001N Programming Software, 3½" Diskette (includes binder and manual)

Railroad

RVN4099B Programming Software, 3½" Diskette (includes binder and manual)



MOTOROLA

SPECTRA Series

Mobile Accessories

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 programming cable, and a 9 volt snap type battery (6082728J01) or wall mount power supply. Order separately.



RLN4008B

RLN4008B Radio Interface Box

Wall Mounted Power Supply

Used to supply power to Radio Interface Box.

0180357A57 Wall Mounted Power Supply (110 volts)

0180358A56 Wall Mounted Power Supply (220 volts)



0180357A57

SERVICE AIDS

Analyzing Accessory

Provides necessary board extension cables for servicing digital and analog modules of the radio.

RPX4725C Analyzing Accessory

RF Service Cables

3080373B25 RF Injection Board Output Cable. Connects to the RX injection output of the VCO assembly for testing RF injection level

3080373B26 BNC (M) to SMB (M) Cable

3080373B41 BNC (F) to Taiko-Denki (M) Cable

3080373B27 BNC (M) to Taiko-Denki (F) Adapter

0180355A28 BNC (F) to Taiko-Denki (F) Adapter

RPX4724B RF Service Cable Kit. Provides interface cables needed to service the RF boards, includes 2884606M01, 3080373B25, 3080373B26, 3080373B41, 3080373B27, and 0180355A28

TKN8531B Key-Variable Loader Cable

5880348B33 SMA to BNC Adapter

5880367B21 Mini-UHF Male to 'N' Female Adapter



MOTOROLA

SPECTRA Series

Mobile Accessories

SERVICE AIDS

Isolation Transformer

Required when making audio measurements due to floating audio output.

SLN6435A Isolation Transformer

Computer Interface Cable

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

3080369B71 Computer Interface Cable, RIB to 25 pin D

3080369B72 Computer Interface Cable, RIB to 9 pin D

Programming Cable

Required to program radio, acts as a link between RIB box and Radio.

3080369B73 Programming Cable

Please refer to the Test Equipment/Shop Supplies Section of the Buyers Source Book for additional Service Aids and Service Tools.

INSTRUCTION MANUALS

6880101W33	SPECTRA Service Manual for "A" Models
6880101W34	SPECTRA Conventional Radio Operator's Manual
6880101W36	SPECTRA Installation Manual
6880101W37	SPECTRA Service Manual
6880101W42	SPECTRA Privacy Plus Operator's Manual
6880101W87	SPECTRA Control Station (Option W665)
6880101W89	SPECTRA Notice
6880102W01	HLN6025A Locking Installation
6880102W61	SPECTRA Service Manual for "B" Models

astro digital spectra/spectra

Microphones

HMN1080A Standard Palm Microphone
HMN1053B DTMF Microphone (not compatible w/astro digital spectra)
5084898K10 Noise Cancelling Microphone
HMN1061A Palm Microphone for use with astro digital spectra W9 radio
HMN1050C Desk Top Microphone (for control station operation)
HLN1220B Handset with Hang Up Box
HMN1079A Water Resistant Palm Microphone



HMN1053C



HLN1220B

Siren

H1500A Siren/Public Address (steady tone operates via button on control head)
H1336A Siren/Public Address, provides hi-lo, yelp, and airhorn tones controlled through supplemental housing
H1337A Public Address Only

Speaker for Siren and Public Address

TDN6251A Siren Speaker Round with Chrome Finish
TDN6252A Siren Speaker Rectangular with Chrome Finish
TDN6253A Siren Speaker Underhood with Grey Finish
TDN6254A Siren Speaker Round with Grey Finish



TDN6253A



TDN6254A



HSN4018B

External Speaker

Provides Audio for High Ambient Noise Environments
HSN4018B External Speaker

Control Station Accessories

HPN4001B Control Station Power Supply
HKN4139A Power Cable
HLN6042A Control Station Tray
HMN1050C Desktop Microphone



HMN1050C



HPN4001B

ORDER TODAY!
1-800-422-4210

Federal Government Customers Call 1-800-826-1913



MOTOROLA

Accessories and Aftermarket Division

Mobile Accessories/Service Manuals

Emergency Switch

Enables user to send an emergency message to a console, where their unit ID can be displayed and an alarm sounded.

HLN5131B External Emergency Button
HLN5113B Emergency Footswitch



HLN5113B



HLN5131B

Quick Release Side Mount

RLN4074A Quick Release Side Mount Kit, includes radio mount, vehicle mount, and mounting hardware

RLN4074A

Quick Release Side Mount Accessories

RLN4075A Radio Mount with Hardware
RLN4076A Vehicle Mount with Hardware
RLN4077A Angle Bracket with 20° Fixed Angle and 50° Swivel
RLN4078A Flat Bracket with 50° Swivel

Miscellaneous Hardware

HLN6025A Key Lock Mount
HLN6008A Remote Mount Kit, with 17 Foot Cable



HLN6025A



RRA4935A



RRA4983A

Antennas

800 MHz

HAF4002A 1/4 Wave, roof top (806-900 MHz)

RRA4983A 3dB, roof top (806-900 MHz)

900 MHz

RRA4935A 3dB, roof top w/14 ft. cable (890-960 MHz)

RAF4003ARM 3dB, roof top w/22 ft. cable (890-960 MHz)

VHF

HAD4006A 1/4 Wave, roof top (136-144 MHz)

HAD4007A 1/4 Wave, roof top (144-152 MHz)

HAD4008A 1/4 Wave, roof top (150.8-162 MHz)

HAD4009A 1/4 Wave, roof top (162-174 MHz)

RAD4010ARB 3dB, roof top (136-174 MHz)

UHF

HAE4002A 1/4 Wave, roof top (403-430 MHz)

HAE4003A 1/4 Wave, roof top (450-470 MHz)

HAE4004A 1/4 Wave, roof top (470-512 MHz)

HAE4010A 3.5dB, roof top (406-420 MHz)

HAE4011A 3.5dB, roof top (450-470 MHz)

HAE4012A 3.5dB, roof top (470-495 MHz)

HAE4013A 3.5dB, roof top (494-512 MHz)

Service Manuals

6881076C20 Astro Digital Spectra Basic Service Manual, VHF, UHF, 800 MHz

6881076C25 Astro Digital Spectra Detailed Service Manual, VHF, UHF, 800 MHz

6880101W33 Spectra Detailed Service Manual

6881074C45 Spectra Service Manual, 800 MHz

6880101W37 Spectra Service Manual, 900 MHz

6881070C95 Spectra Service Manual, VHF

6880101W39 Spectra Service Manual, UHF

6880102W33 Spectra Service Manual, Securenet