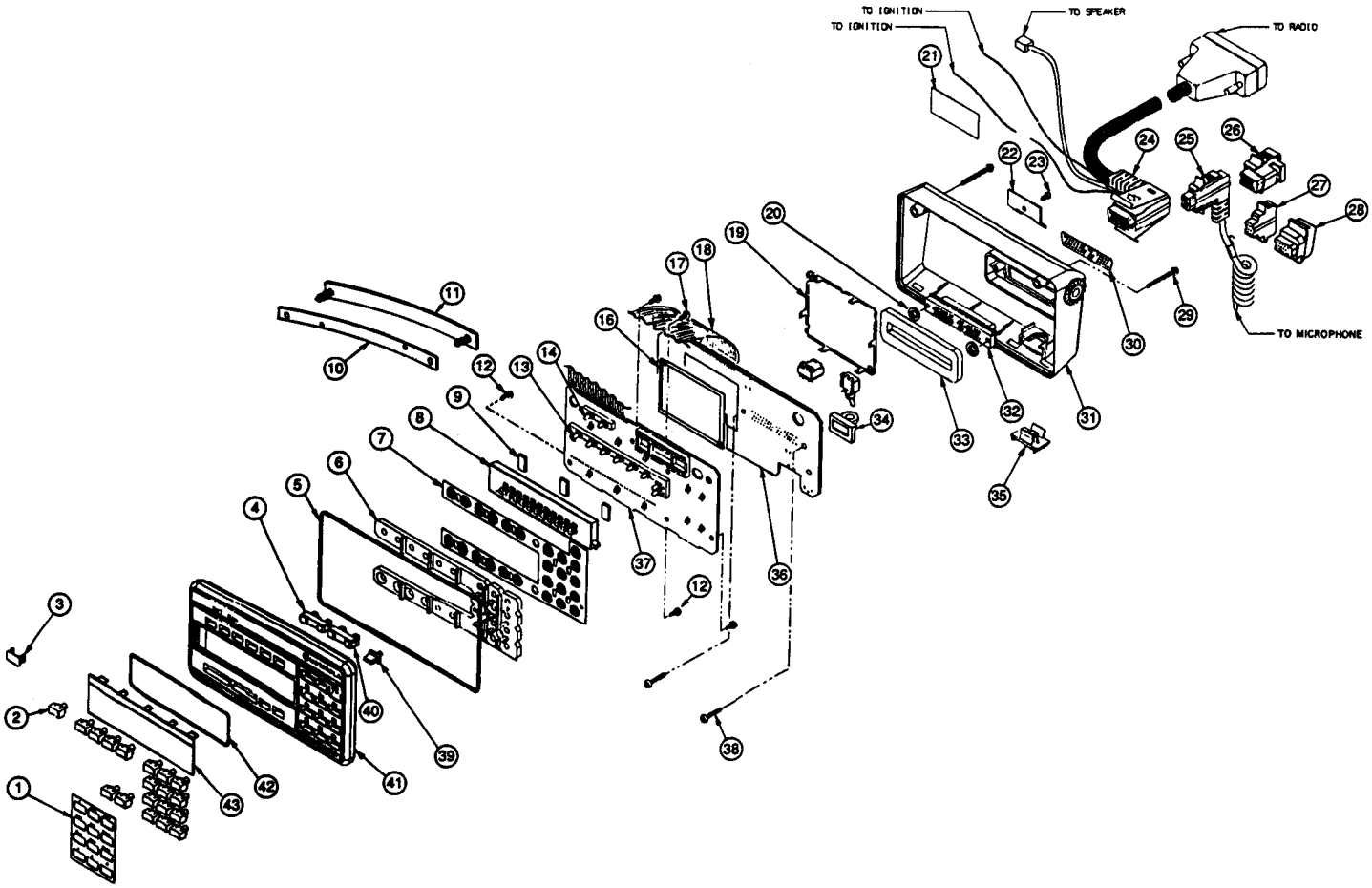
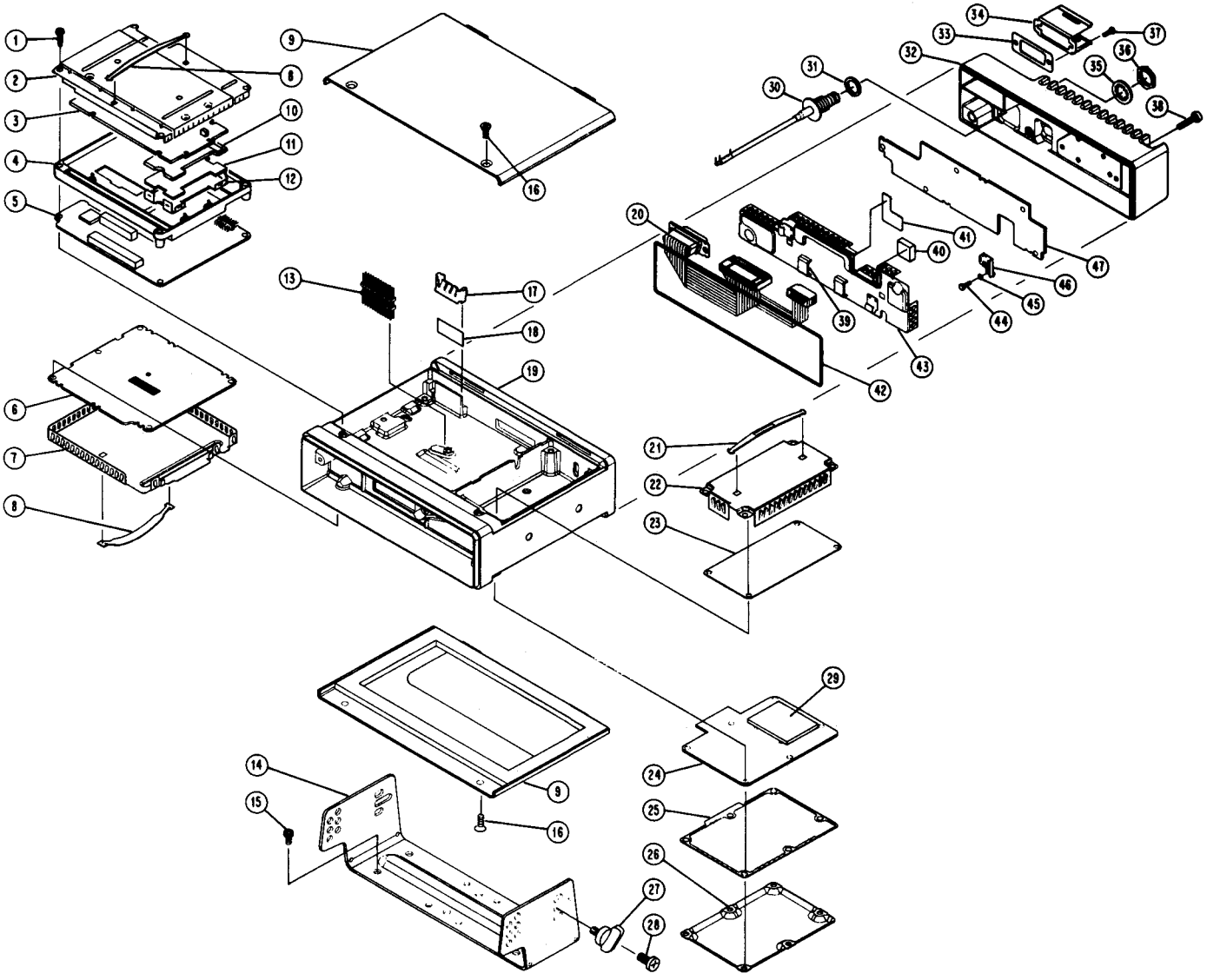
Parts List



Control Head

REF. NO.	PART NO.	DESCRIPTION
1	**1380087J01**	Escutcheon
2	**3805672X26**	Button, emergency
	3805672X45	Button, dir
	3805672X03	Button, scan
	3805672X61	Button, srch
	3805672X12	Button, call
	3805672X63	Button, page
	3805672X41	Button, RPGM
	3805672X36	Button, site
	3805672X44	Button, PHON
	3805672X10	Button, H/L
	3805672X62	Button, lock
	3805672X14	Button, RCL
	3805672X31	Button, SQL
	3805672X17	Button, del
	3805672X39	Button, home
	3805672X18	Button, sel
	3805672X01	Button, blank
3	**3880253K01**	Plug
4	**3805670X04**	Pushbutton, rocker mode
6	**6105126X01**	Lightpipe, keypad
8	**7280242J01**	Display, VF
9	**7580094M05**	Pad, shock; 3 used
17	**0310945A11**	Screw, tapping; 5 used
19	**2680190P02**	Shield, component side
20	**3205082E90**	"O" Ring "D" Connector; 2 used
21	**3380178M01**	Nameplate
22	**0784323C01**	Bracket, strain relief
23	**0310908A18**	Screw, machine
24	**HKN4356B**	Cable, radio
25	**HMN1032B**	Microphone Kit
or	**HMN1050C**	Microphone Kit
or	**HMN1052A**	Microphone Kit
or	**HMN1053A**	Microphone Kit
or	**HMN1061A**	Microphone Kit
26	**1580221J01**	Housing, connector VIP (optional)
27	**7502118Z01**	Cover, rubber dust (MIC)
28	**0180756T47**	Cover, rubber dust (VIP)
29	**0310908A33**	Screw, machine; 2 used
30	**3205198X01**	Gasket, face
31	**1505199X01**	Housing, back
32	**2805778W01**	Connector, mini "D", 50 contact
35	**3880128J01**	Key, on/off
38	**0310945A14**	Screw, tapping; 2 used
39	**3880092J05**	Key, blank
40	**3805670X03**	Pushbutton, rocker volume
42	**3205144X01**	Gasket, lens

Parts List

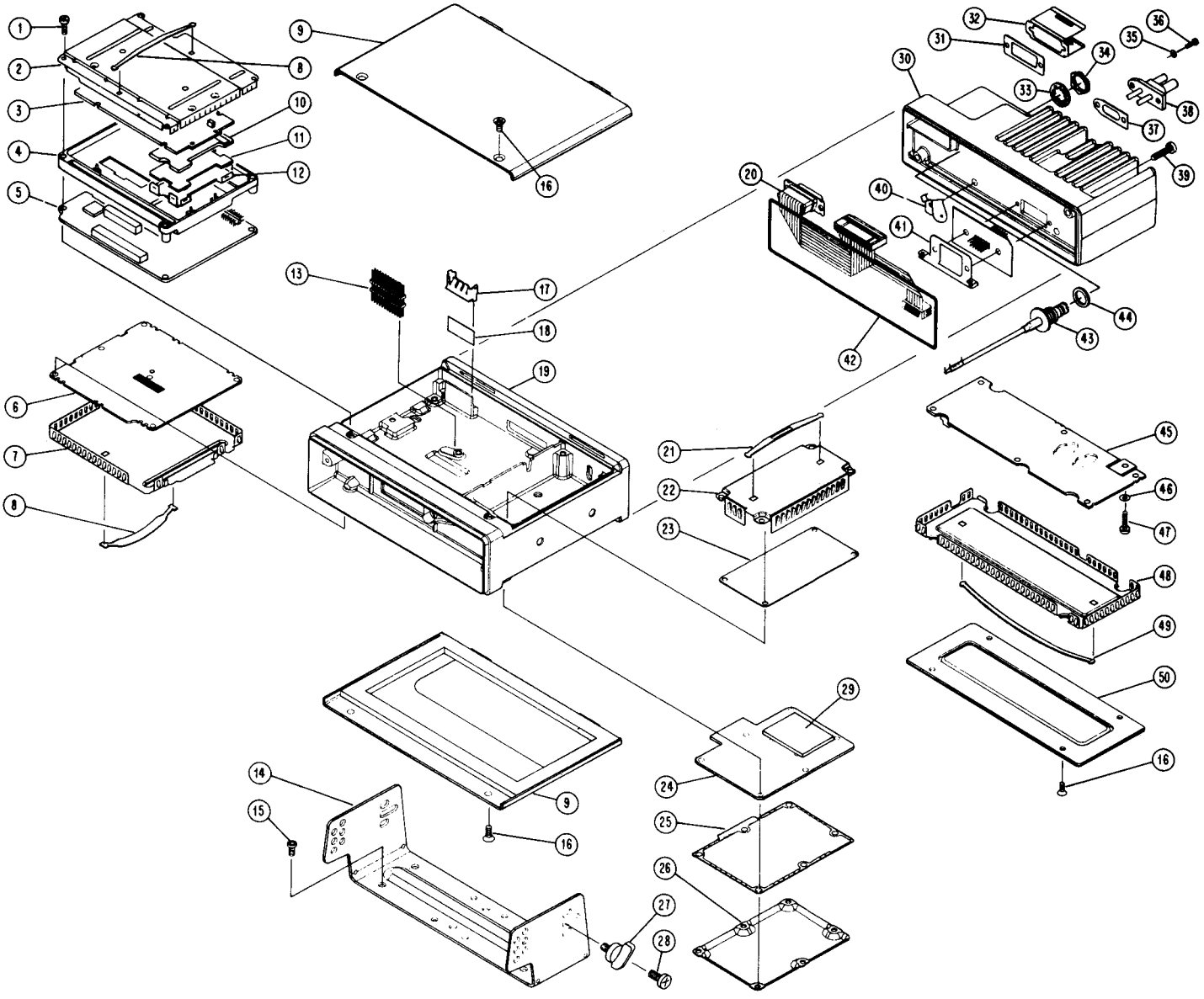


Parts List

REF. NO.	PART NO.	DESCRIPTION
1	**0312016A27**	Screw, tapping (3.5 x 0.6 x 22) (board mounting)
2	**2605704V02**	Shield, top
3	**HLN6458E**	Board Kit, controller
4	**2705703V02**	Casting, controller
5	**HLN5558D**	Board Kit, command
6	**HRN6019A**	Board Kit, RF (800 MHz)
7	**1580099L01**	Shield, RF board
8	**5584300B01**	Handle; 2 used
10	**2605131X01**	Shield, encryption board (optional)
11	---	Board, encryption (optional)
12	**4205566W01**	Clip, encryption board (optional)
13	**2880260M01**	Header, floating
14	**0780086N01**	Trunnion, mounting
15	**0312002B14**	Screw, self-drilling (10-16 x 10); 4 used
16	**0380102P01**	Screw, tapping (3.5 x 0.6 x 10); 8 used
17	**4280007M01**	Clip, regulator
18	**1480001M01**	Insulator, regulator
19	**2780082N01**	Chassis, consolidated
20	**3080239N02**	Cable, PA ribbon
21	**5584300B01**	Handle; 2 used
22	**1580098L01**	Cover, front-end receiver
23	**HRF6004B**	Board Kit, front-end receiver (800MHz)
24	**H1289A**	VCO Board and Hybrid
25	**3280247N01**	Gasket, VCO
27	**0380160E01**	Screw, wing (5.0 x 0.8 x 10); 4 used
28	**0380114M02**	Screw, machine (5.0 x 0.8 x 10); 8 used
29	**1580223N02**	Cover, VCO Hybrid
30	**3080261M01**	Cable, mini (includes items 35 and 36)
31	**3280089M02**	Gasket, antenna
32	**2680009M02**	Heatsink
33	**3280088M01**	Gasket, accessory connector
34	**4280016M03**	Clip, accessory connector
35	**0400132718**	Lockwasher, internal tooth
36	**0280143M01**	Nut, hex, 7⁄16″
37	**8380043L01**	Screw, metric (3.0 x 10); 4 used
38	**0380077M03**	Screw, hex socket; 2 used
39	**4280265M02**	Clip, coax PA; 2 used
40	**4380104N01**	Spacer, PA shield
41	**1480143M01**	Insulator, shield
42	**3280053P01**	Gasket, heatsink
43	**2680011M01**	Shield, PA board
44	**0310911A11**	Screw, machine (3.5 x 0.5 x 8.0)
45	**0480217E01**	Washer, compression
46	**2680187N02**	Heatsink
47	**HLF6078B**	Board Kit, low-power amplifier (PA) (15W; 800MHz)

NON-REFERENCED ITEMS

	3080091M01	Cable, speaker
	7505295B01	Pad, crystal
	7580094M05	Pad, shock VF display; 3 used

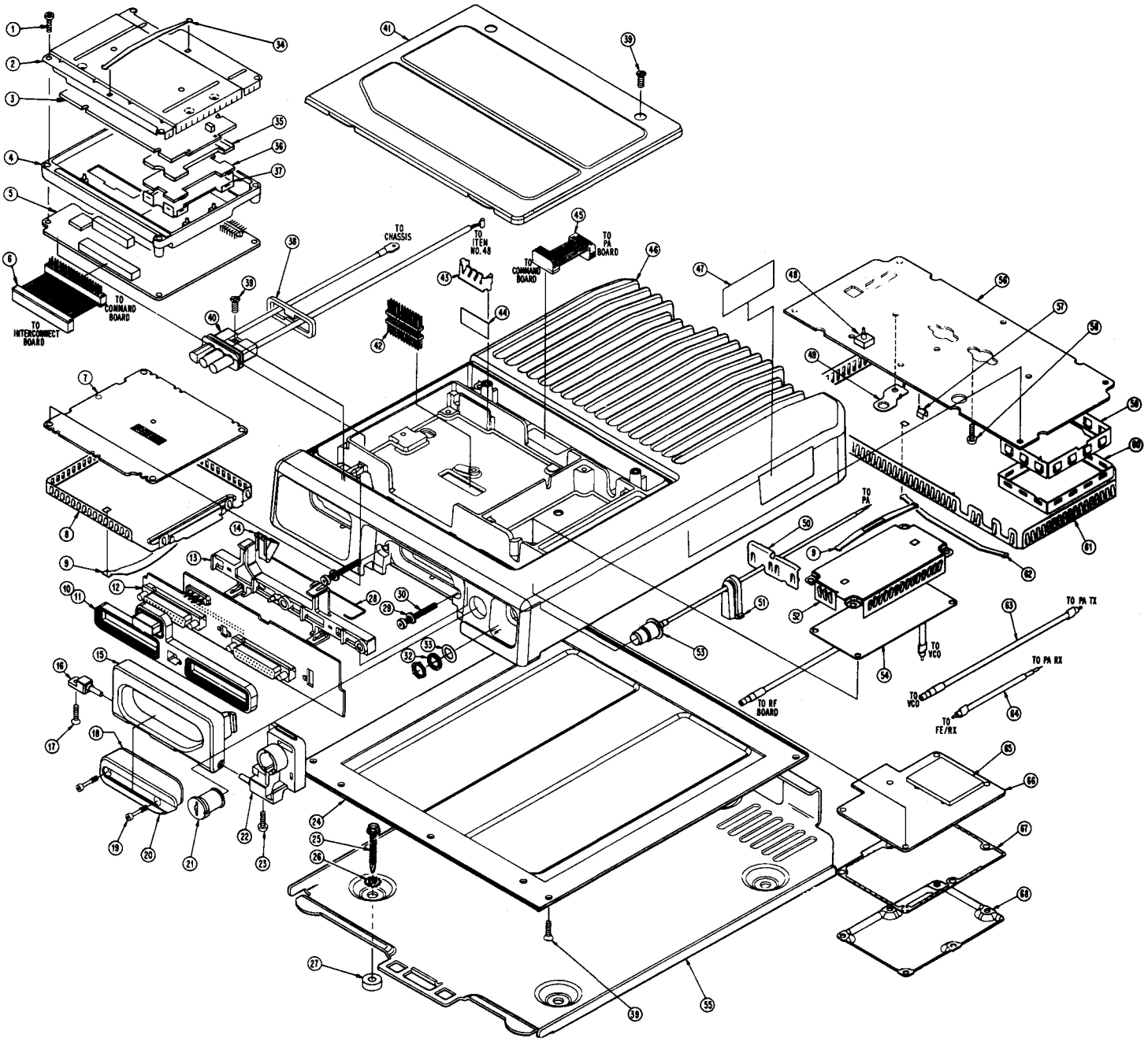

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Parts List

REF. NO.	PART NO.	DESCRIPTION
1	**0312016A27**	Screw, tapping (3.5 x 0.6 x 22) (board mounting)
2	**2605704V02**	Shield, top
3	**HLN6458**	Board Kit, controller
4	**2705703V02**	Casting, controller
5	**HLN5558**	Board Kit, command
6	---	Consult basic service manual
7	**1580099L01**	Shield, RF board
8	**5584300B01**	Handle; 2 used
9	**1580246N01**	Cover (includes gasket)
10	**2605131X01**	Shield, encryption board (optional)
11	---	Board, encryption (optional)
12	**4295566W01**	Clip, encryption board (optional)
13	**2880260M01**	Header,floating
14	**0780086N02**	Trunnion, mounting
15	**0312002B14**	Screw, self-drilling (10-16 x 10); 4 used
16	**0380102P01**	Screw, tapping (3.5 x 0.6 x 10); 8 used
17	**4280007M02**	Clip, regulator
18	---	Insulator, regulator
19	**2780082N04**	Chassis, consolidated
20	**3080239N02**	Cable, PA ribbon
21	**5584300B01**	Handle; 2 used
22	**1580098L01**	Cover, front-end receiver
23	---	Consult basic service manual
24	---	Consult basic service manual
25	**3280247N01**	Gasket, VCO
27	**0380160E01**	Screw, wing (5.0 x 0.8 x 10); 4 used
28	**0380114M02**	Screw, machine (5.0 x 0.8 x 10); 8 used
29	**1580223N02**	Cover, VCO hybrid
30	**2680010M02**	Heatsink, mid-power amplifier (PA)
31	**3280088M01**	Gasket, accessory connector
32	**4280016M03**	Clip, accessory connector
33	**0401032718**	Lockwasher, internal tooth
34	**0280142M01**	Nut, hex, 7/16″
35	**0400131974**	Washer, flat
36	**0380043L01**	Screw, metric (3.0 x 10); 4 used
37	**3280015M01**	Gasket, power connector
38	**0980272N02**	Connector, power
39	**0380077M02**	Screw, hex socket; 2 used
40	**4280264M02**	Clip, coax PA
41	**4280192N01**	Clip, coax
42	**3280053P01**	Gasket, heatsink
43	**3080261M01**	Cable, mini (includes items 33 and 34)
44	**3280089M02**	Gasket, antenna
45	---	Consult basic service manual
46	**0480217E01**	Washer, compression
47	**0310911A11**	Screw, machine (3.5 x 0.5 x 8.0)
48	**2680186M01**	Shield, PA
49	**5584300B04**	Handle
50	**1580048N01**	Cover, mid-power PA

NON-REFERENCED ITEMS

	3080091M01	Cable, speaker
	7505295B01	Pad, crystal
	7580094M05	Pad, shock VF display; 3 used


TO CHASSIS
TO ITEM NO. 48
TO PA BOARD
TO COMMAND BOARD
TO INTERCONNECT BOARD
TO COMMAND BOARD
TO PA
TO VCO
TO RF BOARD
TO PA TX
TO PA RX
TO VCO
TO FE/RX

Parts List

REF. NO.	PART NO.	DESCRIPTION
1	**0312016A27**	Screw, tapping (3.5 x 0.6 x 22) (board mounting)
2	**2605704V02**	Shield, top
3	**HLN6458**	Board Kit, controller
4	**2705703V02**	Casting, controller
5	**HLN5558**	Board Kit, command
6	**3030211R01**	Cable, command board to interconnect board ribbon
7	---	Consult basic service manual
8	**1580099L01**	Shield, RF board
9	**5584300B01**	Handle; 2 used
10	**3280206R01**	Gasket, connector
11	**3280206R02**	Gasket, connector SECURENET
12	**HLN5558**	Board Kit, interconnect
13	**4380110R01**	Spacer, interconnect board
14	**4280232R01**	Clip, interconnect board
15	**5580102R01**	Handle
16	**4780176P01**	Pin, pivot
17	**0310943R55**	Screw, tapping
18	**3280118R01**	Cover, gasket
19	**0380214R01**	Screw, captive
20	**3880122R01**	Connector
21	**5580370A01**	Lock
22	**1580218R01**	Housing, lock
23	**0380043L01**	Screw, tapping
24	**1580216R01**	Cover, bottom
25	**0312002A28**	Screw, self-drilling
26	**0400007688**	Lockwasher
27	**4382292M01**	Bushing, spacer
29	**0405171J03**	Washer, fiber
30	**0310908A97**	Screw, machine
32	**0400132718**	Lockwasher, internal tooth, 7/16˝
33	**0480285R01**	Washer, special
34	**5584300B01**	Handle
35	**2605131X01**	Shield, encryption board (optional)
37	**4205566W01**	Clip, encryption board (optional)

REF. NO.	PART NO.	DESCRIPTION
38	**3205457V01**	Gasket, power connector
39	**0380102P01**	Screw, tapping
40	**3080114R02**	Connector, power
41	**1580217R01**	Cover, top
42	**2880260M01**	Header, floating
43	**4280007M02**	Clip, regulator
44	---	Insulator, regulator
45	**3080212R01**	Cable, command board to PA board ribbon
46	**2780133P02**	Chassis
47	**3380080E01**	Nameplate, FCC
48	**0780255R01**	Bracket, feedthrough
49	**2680201R01**	Heatsink, diode-bracket
50	**4280261R01**	Clip, antenna coaxial
51	**3280120R01**	Gasket, mini-internal connector
52	**1580098L01**	Shield, front-end receiver
53	**3080261M03**	Cable, mini
54	---	Consult basic service manual
55	**1580132P01**	Tray, mounting
56	---	Consult basic service manual
57	**4280202R01**	Clip, coaxial
58	**0310911A11**	Screw, machine
59	**2680139P01**	Shield, harmonic filter
60	**1580208R01**	Cover, harmonic shield
61	**2680138P02**	Shield, power amplifier (PA)
62	**5584300B04**	Handle, PA shield
63	**3080152M15**	Cable, coaxial transmitter
64	**3080037R12**	Cable coaxial receiver
65	**1580223N02**	Cover, VCO hybrid
66	---	Consult basic service manual
67	**3280247N01**	Gasket, VCO

NON-REFERENCED ITEMS

	3080091M01	Cable, speaker
	7505295B01	Pad, crystal
	7580094M05	Pad, shock VF display; 3 used

Mobile Accessories

Microphones



HMN1053B

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

HMN1050D Desk Top Microphone (for control station operation)

HLN1220B Handset with Hang Up Box

HMN1079A Water Resistant Palm Microphone



HLN1220B

Sirens

H1336A Siren/Public Address, provides hi-lo, yelp, and airhorn tones controlled through supplemental housing

H1337A Public Address Only

Speakers

Speaker for Siren and Public Address



TDN6253A

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

External Speaker

Provides Audio for High Ambient Noise Environments

HSN4018B External Speaker



TDN6254A



HSN4018B

Mobile Accessories

Control Station Accessories

HPN4001B Control Station Power Supply

HKN4139A Power Cable

HLN6042A Control Station Tray

HMN1050D Desktop Microphone



HMN1050D



HPN4001B

Emergency Switch



HLN5113B

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

Mounting Hardware

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



HLN6025A

Miscellaneous Hardware

HLN6025A Key Lock Mount

HLN6008A Remote Mount Kit, with 17 Foot Cable

MOTOROLA
intelligence everywhere™

Antennas, Service Aids

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

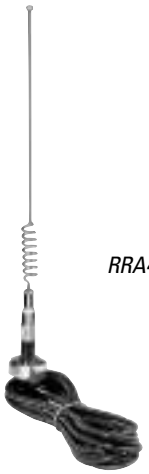
HAD4006A 1/4 Wave, roof top (136-144 MHz)

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)



RRA4935A



HAE4003A

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 Aids

Computer Interface Cable

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

3080369B71 Computer Interface Cable; RIB to 25 pin D

3080369B72 Computer Interface Cable; RIB to 9 pin D

Radio Interface Box



RLN4008E

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.

RLN4008E Radio Interface Box



0180357A57

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)

Programming Software

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.

RVN4100F Programming Software, includes 3-1/2˝ diskette, manual, binder, and storage box.

Program/Test Cable

Acts as a link between RIB and radio; required to program radio.

0180300B10 Program/Test Cable, High Power

3080369B73 Program/Test Cable, Low/Mid Power

RKN4047A Radio Flash Programming Cable

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

Insertion and Extraction Tool

Installs and/or removes wires from accessory connector.

6680163F01 Insertion and Extraction Tool



6680163F01

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

Analyzing Accessory

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

RPX4725C Analyzing Accessory

Service Tools

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 SMB (F) Cable

RF Service Cable Kit

TKN8531C Key-Variable Loader Cable

5880384G68 SMA to BNC Adapter

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

0180320B16 Magnetic Screwdriver Set with Bits

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