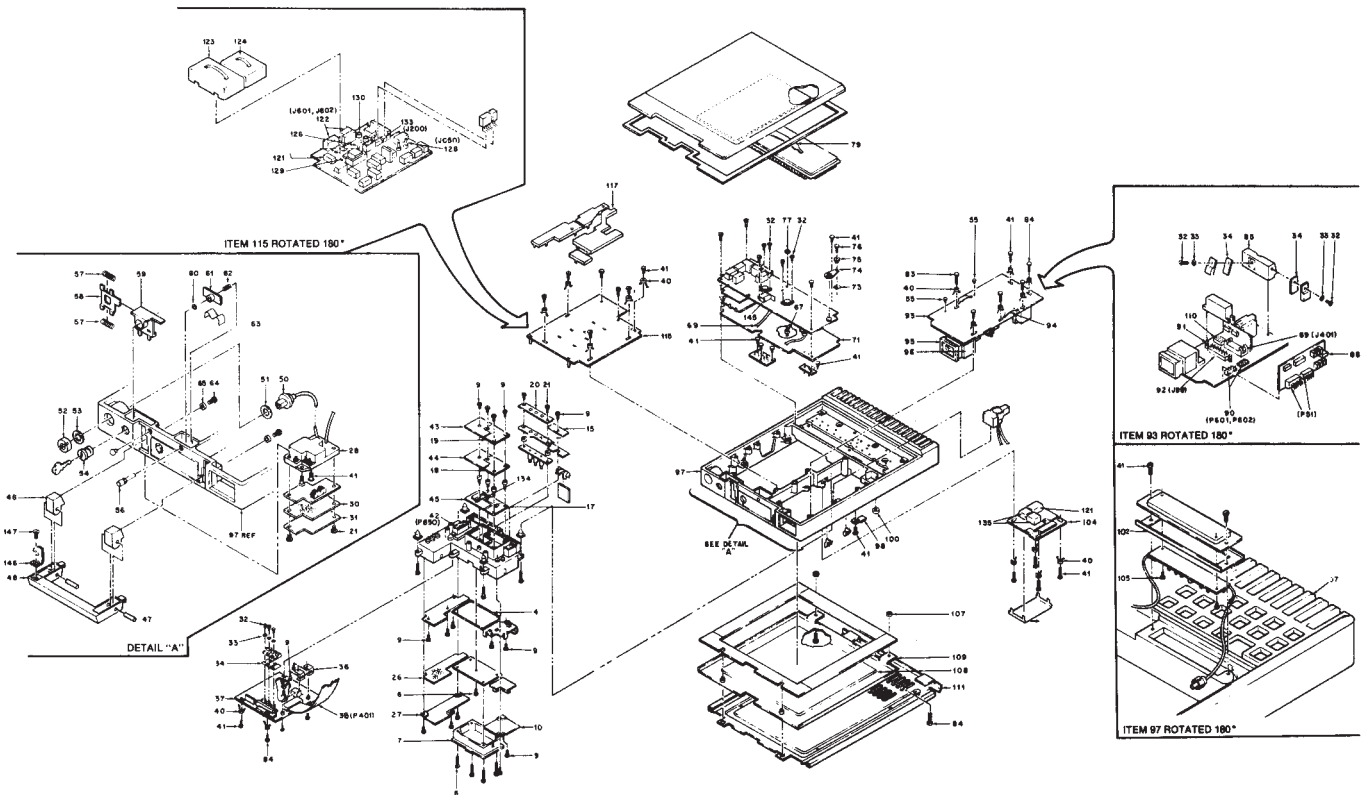


SYNTOR X Series

Parts List



Replacement parts are no longer available

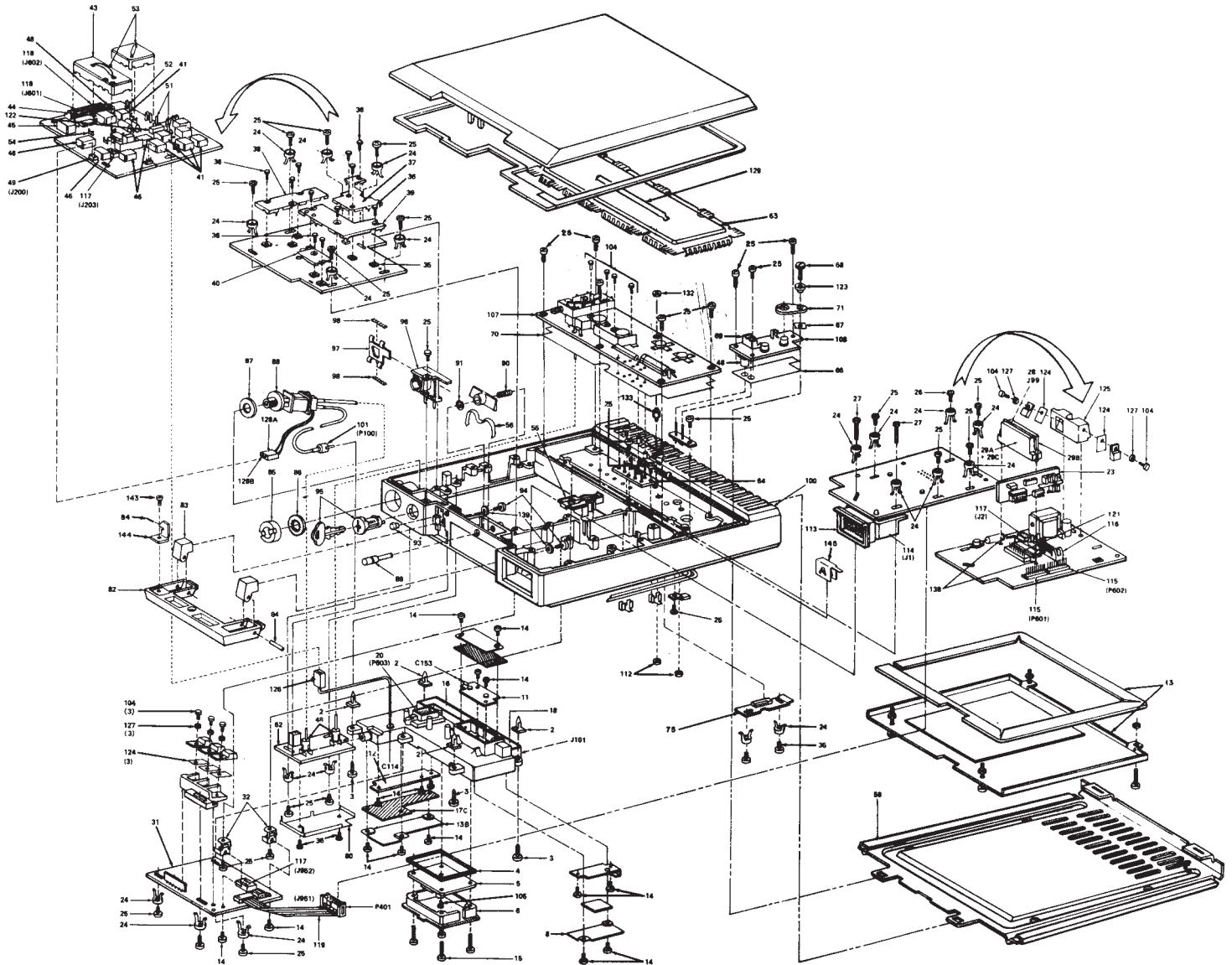
SYNTOR X Series*Parts List***Low Band Assembly**

REF. NO.	PART NO.	DESCRIPTION	REF. NO.	PART NO.	DESCRIPTION
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**Cancelled Product SYNTOR X:
Aftermarket support criteria has
been met for spare parts. Items
are no longer available.**

SYNTOR X Series

Parts List



Replacement parts are no longer available

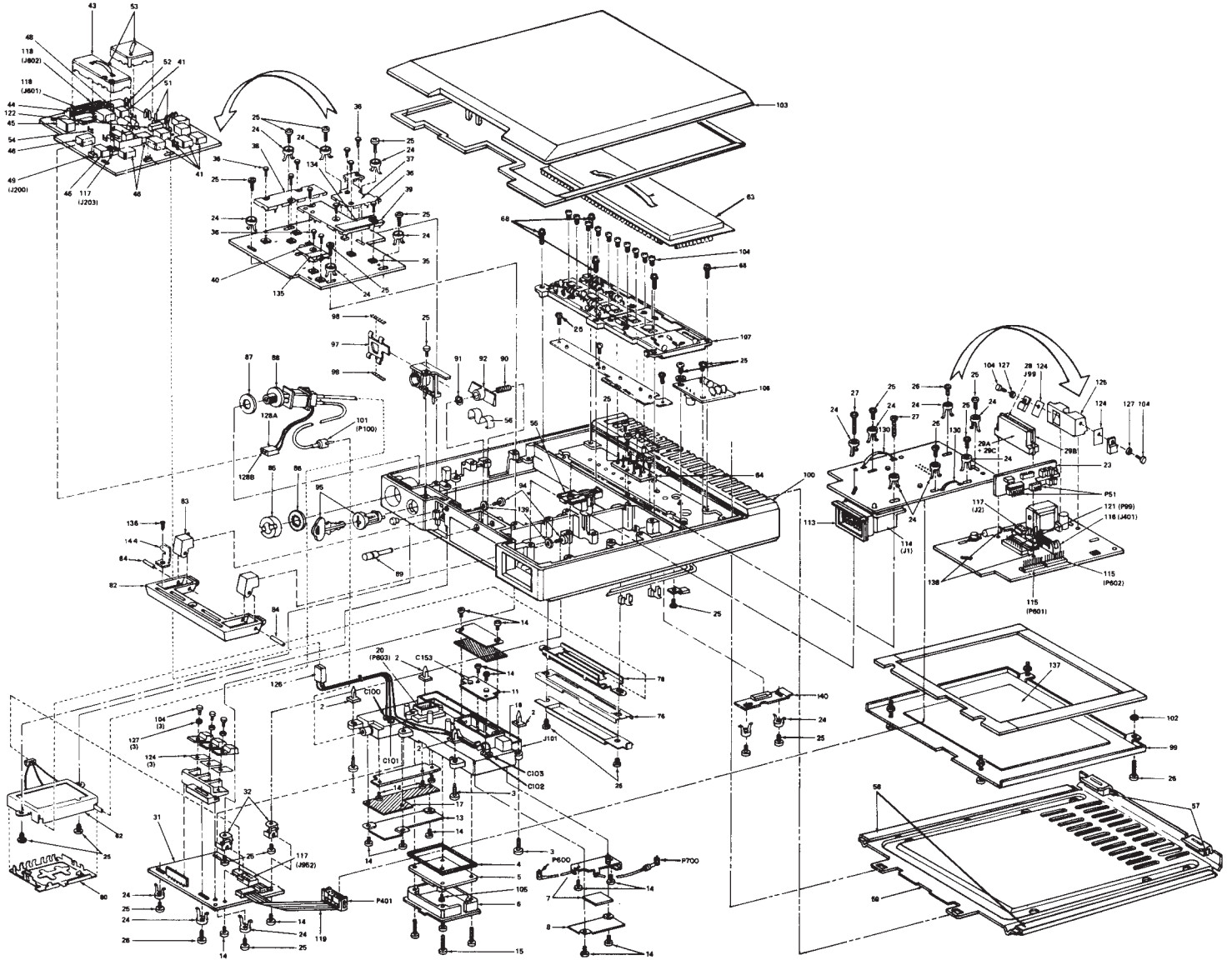
SYNTOR X Series*Parts List***High Band Assembly**

REF. NO.	PART NO.	DESCRIPTION	REF. NO.	PART NO.	DESCRIPTION
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***Cancelled Product SYNTOR X:
Aftermarket support criteria has
been met for spare parts. Items
are no longer available.***

SYNTOR X Series

Parts List



Replacement parts are no longer available

SYNTOR X Series*Parts List***UHF Assembly**

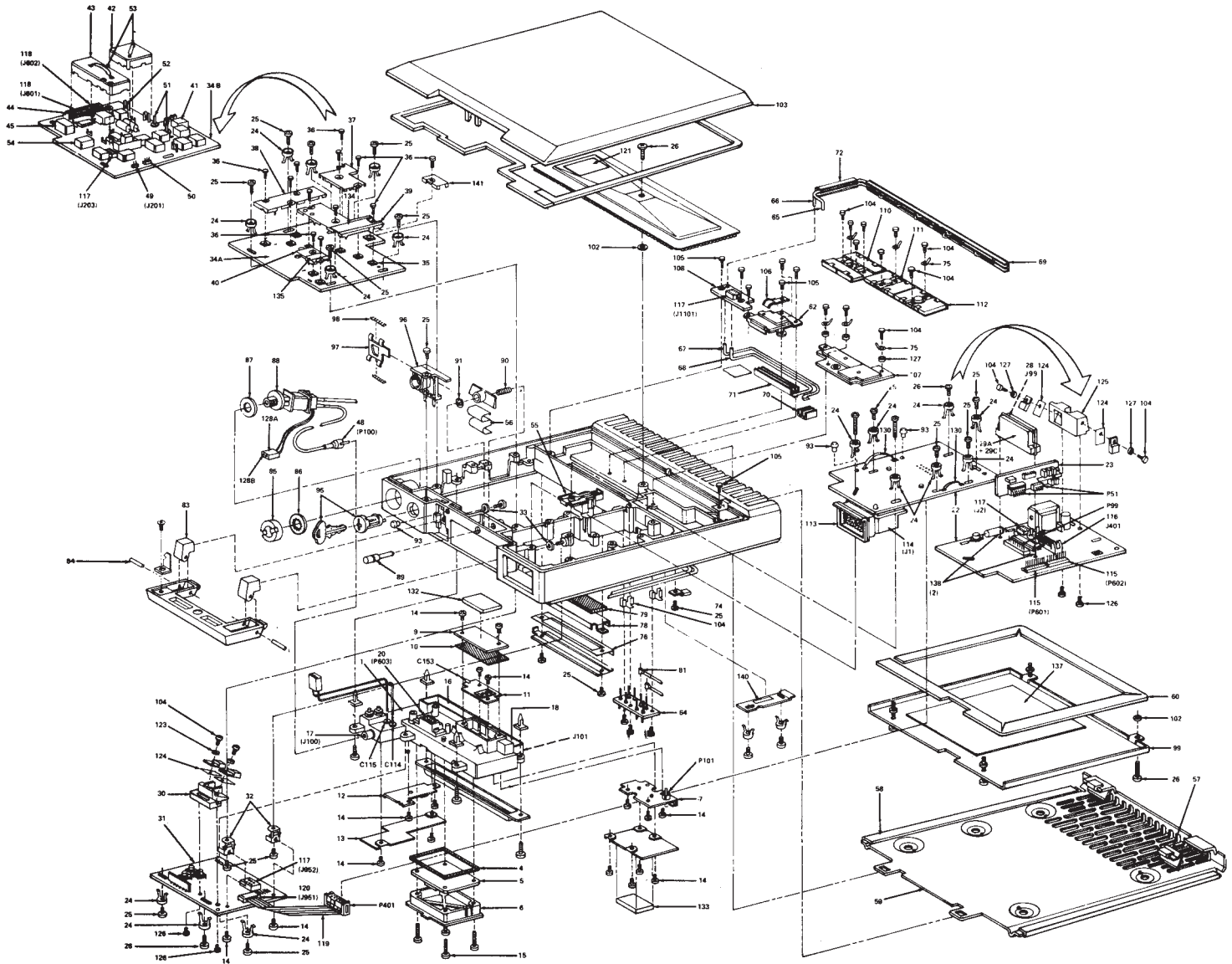
REF.
NO. PART NO. DESCRIPTION

REF.
NO. PART NO. DESCRIPTION

***Cancelled Product SYNTOR X:
Aftermarket support criteria has
been met for spare parts. Items
are no longer available.***

SYNTOR X Series

Parts List



Replacement parts are no longer available

SYNTOR X Series*Parts List***800 MHz Assembly**

REF. NO.	PART NO.	DESCRIPTION	REF. NO.	PART NO.	DESCRIPTION
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***Cancelled Product SYNTOR X:
Aftermarket support criteria has
been met for spare parts. Items
are no longer available.***

SYNTOR X Series

Mobile Accessories

Microphones



HMN1015A

Allows for easy one hand operation. All microphone housings are constructed of durable, shockproof, high impact plastic. The noise cancelling microphone helps to reduce ambient noise from being transmitted.

HMN1015A Microphone, standard palm. Used with Trunked SYNTOR X, X2, X3, SYNTOR X 800 MHz and SYNTOR X high band/UHF.

Speakers

Speakers are enclosed in a strong plastic housing and include their own trunnion bracket for mounting on firewall or dashboard.

HSN4005A Speaker, 15 watts, 8-foot cable. Used with Trunked SYNTOR X, X2, X3, SYNTOR X 800 MHz and SYNTOR X high band/UHF

Power Cables

A variety of cable kits are available for new installation or replacement applications. Multiple vehicles with power cables facilitate quick transfer of radios from one vehicle to another.

HKN4051A Cable and Fuse Kit (30" #8 gauge red battery cable with 40 amp fuse). Used with SYNTOR X 800 MHz and SYNTOR X high band/UHF

TKN6456A Control Head Power Cable. Used with SYNTOR X, X2, X3

TKN6458A Cable and Fuse Kit (24" red battery cable with 40 amp fuse). Used with SYNTOR X, X2, X3

TKN8087A 17' negative ground, all modes except 32. Used with SYNTOR X 800 MHz and SYNTOR X high band/UHF

Installation Kits & Accessories

Installation Kits

HLN4111A VHF Installation Kit, used with SYNTOR X high band/UHF, SYNTOR X, X2, X3

Installation Accessories (Trunked SYNTOR X, X2, X3 only)

0784576B02 Trunnion Bracket Only, for Control Head

SYNTOR X Systems 90•S Accessories

High, UHF, and 800 MHz Conventional Dispatch Bands

Programming Requirements

SYSTEMS 90•S accessory kits will only operate with a SYNTOR X radio unit which is equipped with a correctly programmed memory module. Americas Parts Division offers the R1800 series Digital Analyzer Controller. This instrument and its wide variety of application kits and adapter boards enables field programming of many blank code plugs/memory modules that are used in SYNTOR X non-trunked radios and in various other Motorola communications equipment.

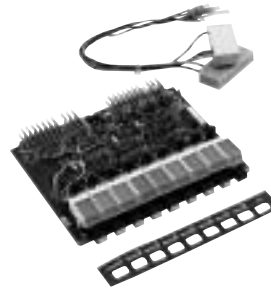
The following blank code plugs/memory modules are available:

SYNTOR X:	Applications Program Kit	Adapter Board	Blank Code Plug/Memory Module Kit
All Modes	RTL4801D	RTL5815A	HLN1125A

SYNTOR X Systems 90•S Modules

Mode-Select Channel-Scan Operation

Channel-Scan allows the operator to monitor alternate channels without missing a call on the priority channel. The Channel-Scan parameters are pre-programmed into the radio memory module and are activated by means of the Mode-Select switch. Channel-Scan operation is greatly simplified since this is the only switch or control that has to be operated. Mode-Select Channel-Scan requires the correct Alternate Control Module (HLN1063A, HLN1065A or HLN1066A) for a complete control unit.



HLN1075A

HLN1075A Mode-Select Channel-Scan, sixteen or thirty-two mode

SYNTOR X Series

Antennas

Mobile Antennas



RAB4013ARA

Part Number: **RAB4012ARA**
Frequency: 30-36 MHz
Power: 100 watts, maximum
Gain: Unity, nominal
VSWR: Less than 1.5:1
Duty: Heavy
Impedance: 50 ohms, nominal
Mounting Kit: Roof Mount with 17' RG58A/U Cable and PL259 Connector

Part Number: **RAB4013ARA**
Frequency: 36-42 MHz
Power: 100 watts, maximum
Gain: Unity, nominal
VSWR: Less than 1.5:1
Duty: Heavy
Impedance: 50 ohms, nominal
Mounting Kit: Roof Mount with 17' RG58A/U Cable and PL259 Connector

Part Number: **RAB4014ARA**
Frequency: 42-50 MHz
Power: 100 watts, maximum
Gain: Unity, nominal
VSWR: Less than 1.5:1
Duty: Heavy
Impedance: 50 ohms, nominal
Mounting Kit: Roof Mount with 17' RG58A/U Cable and PL259 Connector

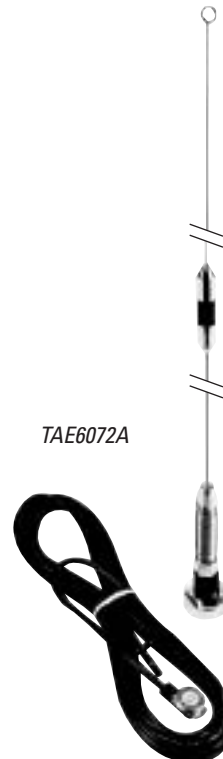
Mobile Antennas



RAD4010ARA

Part Number: **RAD4010ARA**
Frequency: 136-174 MHz
Power: 150 watts, maximum
Gain: 3 dB, nominal
VSWR: Less than 1.5:1
Duty: Heavy
Impedance: 50 ohms, nominal
Mounting Kit: Roof Mount with 17' RG58A/U Cable and PL259 Connector

Part Number: **RAE4014ARA**
Frequency: 440-470 MHz
Power: 150 watts, maximum
Gain: 5 dB, nominal
VSWR: Less than 1.5:1
Duty: Heavy
Impedance: 50 ohms, nominal
Mounting Kit: Roof Mount with 17' RG58A/U Cable and PL259 Connector



TAE6072A

Part Number: **TAE6072A**
Frequency: 450-470 MHz
Power: 150 watts, maximum
Gain: 3.5 dB, nominal
VSWR: Less than 2:1
Duty: Standard
Impedance: 50 ohms, nominal
Mounting Kit: Roof Mount with 14' RG58A/U Cable and PL259 Connector

SYNTOR X Series

Tools, Service Aids

Alignment Tools



RSX4028A

Spanner Tool

Used to remove antenna relay locking nut.

RSX4028A Spanner Tool

Alignment Tool Kits

6684974L01 Tool Kit. Consisting of 6684974L01, UHF Alignment Tool

Service Tools

Screwdrivers

6680344A57 #1 Pozidrive Screwdriver, for Chassis Screws

6680344A58 #2 Pozidrive Screwdriver, for Chassis Screws



6680344A57

Service Aids

Programming Software

Programs new parameters into SYNTOR X Radios as the needs of the user change. Requires R-1801 Digital Analyzer Programmer with expanded RAM.

RTL4801D Software for programming all frequency bands and all channels. Requires adapter, order separately

Programming Software

For trunked SYNTOR X Radios only. Compatible with IBM XT, AT Models 30, 50, 60, and 80. Requires Radio Interface Box and proper cables; order separately.

RVN4069A Programming Software 3-1/2" disk (includes binder and manual)

Radio Test Set Cable

Allows connection of radio metering socket to align transmitter and receiver.

RTK4043A Radio Test Cable



RTK4043A

SYNTOR X Series

Manuals

Manuals

SYNTOR X, X2 and X3 Products

33-50 MHz

6880100W51 SYNTOR X 100W Radio

150-174 MHz

6881111E94 SYNTOR X VHF Test Memory Module

6881060E05 SYNTOR X Systems Radio

406-470 MHz

6880100W45 SYNTOR X 100W

806-870 MHz

6881043E50 35W Trunked SYNTOR X Mobile
T45VBJ5G00AA, AK, T45VBJ5G00AW

6881043E55 10W Trunked SYNTOR X Control Station
L35VBB5174AM, L35RHB517AW

6881047E05 35W Trunked SYNTOR X2 Mobile
T45RHJ5G00AK, AW T45VSJ5G00AA, AK

6881043E50 Instruction Manual Package for Trunked SYNTOR
X2 Mobile with W308 Option

6881060E10 15/35W Trunked SYNTOR X3 Mobile
T35/45VUJ5G00AA, AK (Supplement to
6881047E05)

6881066E80 Trunked SYNTOR X SMARTNET/Dual Operation
806-870 MHz T45VBJ5G11AK

6881110E83 Trunked SYNTOR X Mobile Owner's Manual

6881110E87 SYNTOR X SYSTEMS 90•S Pushbutton Control
Head TCN1350A, 51A, 52A, TLN2267A, 68A

6881110E89 SYNTOR X SYSTEMS 90•S Channel-Scan
TLN2256A-62A

6881110E93 SYNTOR X SYSTEMS 90•S Accessory Group
Installation Instructions

6881111E70 Trunked Communications System SYNTOR X, X2,
and X3 FM Radio Owner's Manual

Manuals

Accessories

6880101W90 Systems 9000 Security Housing Operator's Card

6881102E60 Handset Hang-up Units

6880100W43 Handheld Control Head Radios

6880100W44 Option W388AC DES for Handheld Control
Head Radios

6880100W53 HLN1125A Field Retrofit EEPROM Module

6880100W72 Operating Instruction Card for Handheld Control
Head with Operator Selectable Scan and DPV

6880100W79 Broadband Antenna Match

6880100W86 Diplex Antenna Manual

6880100W89 Supplement to Trunked SMARTNET Dual
Operation FM Two-Way Radios

6880102W04 SYNTOR X 9000 UHF Accessories Supplement

6880102W05 SYNTOR X 9000 Highband Accessories
Supplement

6880101W10 Systems 9000 Siren/PA for SYNTOR X 9000

6880101W13 Systems 9000 Auxiliary Switch Panel

6880101W15 Systems 9000 MDC-600 Option

6880101W20 Systems 9000 Noise Cancelling Microphone

6880101W21 Systems 9000 DTMF/Telephone Interconnect

6880103W09 Systems 9000 Direct Entry Keyboard

6880101W72 SYNTOR X 9000E Dual Operations Radio
Operator's Manual

6880101W73 SYNTOR X 9000E Quick Reference Card

6880101W75 Systems 9000 Security Housing

6880101W97 Systems 9000 Option Expansion Housing