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TECHNICAL SUPPORT

Technical support is available by:

» Telephone: (585) 242-3561
» Toll Free: (866) 264-8040
» Fax: (585) 242-4483
» Email: rfcsrvc@harris.com
» Web: www.rfcomm.harris.com/support
The AN/PRC-150(C) is the most advanced and integrated HF radio in the world. The radio features Automatic Link Establishment (ALE), data rates up to 9600 bps with advanced error-free protocols, MELP digital voice, Citadel encryption, digital ECCM, and a built-in Internet Protocol (IP) interface. Covering the 1.6 to 60 MHz spectrum in 10 Hz steps, it goes beyond the standard HF band, making it a highly versatile HF-SSB/VHF FM transceiver. The built-in multi-waveform modem and 600/2400 bps vocoders provide high data throughput and secure digital voice over the most challenging HF channels.
AN/PRC-150(C) MANPACK

AN/PRC-150(C)

The AN/PRC-150(C) is an advanced, nomenclatured HF/VHF manpack radio that provides reliable tactical communications through U.S. government Type-1 encryption for enhanced secure voice and data performance, reduced size/weight, and extended battery life. The removable Keypad Display Unit enables operation on the move with the transceiver stowed in the user’s backpack. The AN/PRC-150(C) HF-SSB/VHF-FM transceiver covers 1.6 to 60 MHz at 20 watts PEP/Average for HF and 10 watts for VHF. Modes include USB, LSB, CW, AME, and FM. Two types of encryption are included in this radio, U.S. government Type-1 and coalition encryption. A simple, menu-driven, man-machine interface makes operation easy. Seventy-five user-defined net presets provide complete radio configuration, including radio operating mode, modem settings, COMSEC and TRANSEC keys. This unit is interoperable with non-Type-1 radios in secure mode with radios that include standard Citadel encryption in both the HF and VHF bands. The unit is also interoperable in non-secure mode in fixed frequency and ALE with other HF and VHF radio systems. Additional standard features include a removable Keypad Display Unit, 24 VDC or self-contained battery operation, and RS-232 ASCII remote control. Finish/Color: CARC Green 383

Features

ENCRYPTION

Two types of embedded encryption are included in this radio: U.S. government Type-1 and Coalition. The Type-1 encryption is interoperable with KY-99, KY-100, and KG-84 ciphers for HF systems and KY-57 cipher for VHF systems. Coalition encryption is based on the Harris Citadel encryption and can be used to interoperate with RF-5800H radio systems in secure mode.

ENHANCED FREQUENCY HOPPING (ECCM)

A proprietary serial tone, ECCM provides digital voice and data performance comparable to single-channel serial tone modem.

HIGH-SPEED MODEM WAVEFORMS

The embedded modem waveform suite offers the most advanced HF data capability available in the tactical radio marketplace. The supported MIL-STD-188-110B waveforms include the serial tone (2400 bps) modem, high data rate (9600 bps) modem, parallel tone (2400 bps) modem, as well as a set of narrowband FSK waveforms. Also included are the STANAG 4285 and STANAG 4415 serial tone waveforms. Adaptive excision filtering and equalization improve the data modem performance in fading and noisy channels, and counteract jamming.

MELP AND LPC-10, 600/2400 BPS DIGITAL VOICE

The digital voice mode utilizes the latest military MELP and LPC-10 algorithms for high-quality secure narrowband voice at 2400 bps. The Harris 600 bps vocoders extend the communication range beyond conventional 2400 bps systems.

MIL-STD-188-141B, APPENDIX A AUTOMATIC LINK ESTABLISHMENT (ALE)

ALE allows the transceiver to automatically locate the best available channel and link with a desired station or net. The radio also provides AL-1 Linking Protection.

STANAG 4538 THIRD GENERATION HF LINK AUTOMATION

The latest integrated high-performance Automated Link Establishment (ALE) and data link protocols provide superior linking and error-free data performance. Fast link setup (FLSU) protocol suite is supported.

TACTICAL INTERNET

Tactical Internet is an embedded wireless networking capability that provides the ability to connect outside IPv4 devices and applications over HF circuits. It utilizes third generation HF Link Automation to efficiently route secure IP-based traffic.

SOFTWARE OPTIONS

<table>
<thead>
<tr>
<th>Product Number</th>
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<td>10535-8010-0002</td>
<td>LPI/LPD Option</td>
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ANCILLARY ITEMS

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<tr>
<td>10515-0117-0001</td>
<td>Operator Manual</td>
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<tr>
<td>10515-0103-4100</td>
<td>Operator Card</td>
<td>1</td>
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<tr>
<td>10372-0240-02</td>
<td>OE-505 Manpack Antenna Kit</td>
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<tr>
<td>10372-1260-01</td>
<td>Antenna Assembly Adapter</td>
<td>1</td>
</tr>
<tr>
<td>10075-1399</td>
<td>H-250/U Lightweight Handset (Modified)</td>
<td>1</td>
</tr>
<tr>
<td>10513-4800-02</td>
<td>Battery Box</td>
<td>1</td>
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<tr>
<td>10511-0704-012</td>
<td>KDU Cable</td>
<td>1</td>
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<tr>
<td>10303-1008-01</td>
<td>Ground Stake Kit</td>
<td>1</td>
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<tr>
<td>RF-6550H</td>
<td>Radio Programming Application</td>
<td>1</td>
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<tr>
<td>10535-0775-A006</td>
<td>Simultaneous Control &amp; Data Cable Assembly</td>
<td>1</td>
</tr>
<tr>
<td>RF-6551H</td>
<td>Tactical Chat Comms Software</td>
<td>1</td>
</tr>
<tr>
<td>RF-5930-CA002</td>
<td>Falcon II Ranger Bag</td>
<td>1</td>
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### R/T SPECIFICATIONS

<table>
<thead>
<tr>
<th>Function</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>GENERAL</strong></td>
<td></td>
</tr>
<tr>
<td>Frequency Range</td>
<td>Single Sideband (SSB): Upper Sideband (USB) and Lower Sideband (LSB), and Amplitude Modulation Equivalent (AME) Modes: 1.6 MHz to 29.99999 MHz, in 100 Hz steps from the front panel and in 10 Hz steps from the REMOTE port. Frequency Modulation (FM) Modes: 20 MHz to 59.99999 MHz in 100 Hz steps from the front panel and in 10 Hz steps from the REMOTE port.</td>
</tr>
<tr>
<td>Frequency Stability</td>
<td>1.0 x 10^-6 for not less than 30 days</td>
</tr>
<tr>
<td>Radio Frequency (RF) Input/Output (I/O) Impedance</td>
<td>50 ohms</td>
</tr>
<tr>
<td>Power Input</td>
<td>+26 VDC nominal; normal operations from +23 to +32 VDC, +34.5 VDC Li-ION; when battery voltage reaches 21 VDC, the radio shuts down. Reduced power output by -6 dB of full power 21 VDC to 23 VDC (if power output is set -6 dB of full power.</td>
</tr>
<tr>
<td>Receiver Sensitivity</td>
<td>-113 dBm for 10 dB Signal + Noise + Distortion/Noise + Distortion (SINAD) [SSB], 2.7 kHz IF Bandwidth [BW] -98 dBm for 10 dB SINAD AME, 6.0 kHz BW, 30% modulation -117 dBm for 10 dB SINAD (Continuous Wave [CW], 0.25 kHz BW -107 dBm for 10 dB SINAD (FM, 22 kHz, 8 kHz deviation)</td>
</tr>
<tr>
<td>Audio Output</td>
<td>≥15 mW into a 1000-ohm load</td>
</tr>
<tr>
<td>Image Rejection</td>
<td>First Intermediate Frequency (IF): &gt;80 dB Second IF Image: &gt;60 dB</td>
</tr>
<tr>
<td>Intermediate Frequency (IF) Rejection</td>
<td>First IF: &gt;80 dB Second IF: &gt;70 dB 1.6 to 2.4 MHz, 80 dB 2.4 to 60 MHz</td>
</tr>
<tr>
<td>Internally Generated Spurious Signals</td>
<td>Below -112 dBm on 99% of 3 kHz USB/LSB channels over 1.6 to 60 MHz</td>
</tr>
<tr>
<td>Transmitter Power Output</td>
<td>High: 20 W Peak Envelope Power (PEP)/Average SSB; 10 W Average FM Medium: 5 W PEP/Average SSB or FM Low: 1 W PEP/Average SSB or FM</td>
</tr>
<tr>
<td>Carrier Suppression</td>
<td>&gt;60 dB below PEP</td>
</tr>
<tr>
<td>Undesired Sideband Rejection</td>
<td>&gt;60 dB below PEP</td>
</tr>
<tr>
<td>Transmit Intermodulation Distortion</td>
<td>1.6 to 29.99999 MHz: -24 dB (3rd order or higher) 30 MHz to 59.99999 MHz: -18 dB (3rd order or higher)</td>
</tr>
<tr>
<td>Receiver Spurious Responses</td>
<td>Down at least 55 dB when 2.5% to 30% from center frequency</td>
</tr>
<tr>
<td>Audio Input</td>
<td>1.5 mV rms with 150-ohm source impedance</td>
</tr>
<tr>
<td>Dimensions (with battery box)</td>
<td>10.43 W x 13.31 D x 3.2 H in (26.5 W x 33.8 D x 8.1 H cm)</td>
</tr>
<tr>
<td>Weight (with battery box and two BB-590/U batteries)</td>
<td>17.2 lbs (7.8 kg)</td>
</tr>
</tbody>
</table>

Note: BA-5390/U and BA-5590/U batteries are primary cells.
RF-5800H-V001

AN/PRC-150 MANPACK RADIO

AUDIO CABLE (10497-5035-01)

HANDSET (H-250/U) (10075-1399)

RF-5833H-PA001 POWER AMPLIFIER

COAXIAL CABLE ASSEMBLY (10497-5015-01)

PA CONTROL CABLE (10535-0720-B17)

RF-5382H or RF-382A

NOTE: PART NUMBERS VARY WITH INSTALLATION

COUPLER PURCHASED SEPARATELY

DC POWER CABLE (10181-3826-020) TO VEHICLE ALTERNATOR/BATTERY SYSTEM

TO VHF ANTENNA

10181-9823-XXX (RF-382)* or 12020-1460-AXXX (RF-5382)*

10181-9624-###*

Falcon II® AN/PRC-150(C) Application Guide
Falcon II® AN/PRC-150(C) Application Guide

System Interconnect Diagrams

RF-5800H-V002

- AUDIO CABLE (10497-5036-01)
- HANDSET [H-250/U] (10075-1399)
- COAXIAL CABLE ASSEMBLY (10497-5015-01)
- RF-5833H-PA002 POWER AMPLIFIER
- PA CONTROL CABLE (10535-0720-B17)
- RF-5833H-PA002 POWER AMPLIFIER (REAR VIEW)
- TO GROUND
- TO VHF ANTENNA
- DC POWER CABLE (10181-9825-020) TO VEHICLE ALTERNATOR/BATTERY SYSTEM
- FAN POWER CABLE

*NOTE: PART NUMBERS VARY WITH INSTALLATION
*COPPER PURCHASED SEPARATELY
RF-5800H-V003

AN/PRC-150 MANPACK RADIO

TO GROUND

DC POWER CABLE
(10181-9828)
TO VEHICLE BATTERY-ALTERNATOR POWER SYSTEM

R/T-PA COAX CABLE
(10181-9821)

RF-5834H-PA POWER AMPLIFIER

TO GROUND

RF-382A ANTENNA COUPLER

PA TO COUPLER CONTROL CABLE
(10181-9823)

PA TO COUPLER RF COAX CABLE
(10181-9825 OR 10181-9824)

*COUPLER AND CABLES PURCHASED SEPARATELY
**System Interconnect Diagrams**

**RF-5800H-V004**

**Handset (H-250/U)**

(10075-1399)

**AN/PRC-150 Manpack Radio**

**R/T-PA RF Cable Assy**

(10181-9821)

**RF-5832H-PA Power Amplifier**

**RF-382A or RF-5382 Antenna Coupler**

**RF-5832H-PA DC Power Cable**

(10181-9826)

**R/T-PA Control Cable**

(10535-0720)

**PA-Coupler Control Cable**

10181-9823-XXX or
12020-1460-AXXX (RF-5382)

**PA-Coupler Coaxial Cable**

(10181-9825 or 10181-9824)

*COUPLER PURCHASED SEPARATELY*
NOTES:
ENSURE THAT THE VEHICULAR SHOCK MOUNTS ARE GROUNDED PER INSTRUCTIONS GIVEN IN MANUAL.

*COUPLER PURCHASED SEPARATELY*
RF-5800H-B001

AN/PRC-150 MANPACK RADIO

DC POWER CABLE
(10181-9823-XXX)

RF-5382W or RF-382A

10181-9624-###*

*NOTE: PART NUMBERS VARY WITH INSTALLATION
*COUPLER AND CABLES PURCHASED SEPARATELY

TO AC POWER
90-300 VAC, 47-400 Hz

TO GROUND

FAN POWER CABLE

10181-9883-004

DC POWER CABLE

TO VHF ANTENNA

TO GROUND

AUDIO CABLE
(10497-5036-01)

HANDSET
(H-250/U)
(10075-1369)

RF-5833H-PA001 POWER AMPLIFIER

RF-5833H-PA001
(REAR VIEW)

POWER AMPLIFIER

COAXIAL CABLE ASSEMBLY
(10497-5015-01)

TO AC POWER
90-300 VAC, 47-400 Hz

AC POWER CABLE
(10181-9831-009)

TO AC POWER
90-300 VAC, 47-400 Hz

TO GROUND

FAN POWER CABLE

10181-9833-004

DC POWER CABLE

TO VHF ANTENNA

TO GROUND

AUDIO CABLE
(10497-5036-01)

HANDSET
(H-250/U)
(10075-1369)

RF-5833H-PA001 POWER AMPLIFIER

RF-5833H-PA001
(REAR VIEW)

POWER AMPLIFIER

COAXIAL CABLE ASSEMBLY
(10497-5015-01)

TO AC POWER
90-300 VAC, 47-400 Hz

AC POWER CABLE
(10181-9831-009)

TO AC POWER
90-300 VAC, 47-400 Hz

TO GROUND

FAN POWER CABLE

10181-9833-004

DC POWER CABLE

TO VHF ANTENNA

TO GROUND

AUDIO CABLE
(10497-5036-01)

HANDSET
(H-250/U)
(10075-1369)

RF-5833H-PA001 POWER AMPLIFIER

RF-5833H-PA001
(REAR VIEW)

POWER AMPLIFIER

COAXIAL CABLE ASSEMBLY
(10497-5015-01)

TO AC POWER
90-300 VAC, 47-400 Hz

AC POWER CABLE
(10181-9831-009)

TO AC POWER
90-300 VAC, 47-400 Hz

TO GROUND

FAN POWER CABLE

10181-9833-004

DC POWER CABLE

TO VHF ANTENNA

TO GROUND

AUDIO CABLE
(10497-5036-01)

HANDSET
(H-250/U)
(10075-1369)

RF-5833H-PA001 POWER AMPLIFIER

RF-5833H-PA001
(REAR VIEW)

POWER AMPLIFIER

COAXIAL CABLE ASSEMBLY
(10497-5015-01)

TO AC POWER
90-300 VAC, 47-400 Hz

AC POWER CABLE
(10181-9831-009)

TO AC POWER
90-300 VAC, 47-400 Hz

TO GROUND

FAN POWER CABLE

10181-9833-004

DC POWER CABLE

TO VHF ANTENNA

TO GROUND

AUDIO CABLE
(10497-5036-01)

HANDSET
(H-250/U)
(10075-1369)

RF-5833H-PA001 POWER AMPLIFIER

RF-5833H-PA001
(REAR VIEW)

POWER AMPLIFIER

COAXIAL CABLE ASSEMBLY
(10497-5015-01)

TO AC POWER
90-300 VAC, 47-400 Hz

AC POWER CABLE
(10181-9831-009)

TO AC POWER
90-300 VAC, 47-400 Hz

TO GROUND

FAN POWER CABLE

10181-9833-004

DC POWER CABLE

TO VHF ANTENNA

TO GROUND

AUDIO CABLE
(10497-5036-01)

HANDSET
(H-250/U)
(10075-1369)

RF-5833H-PA001 POWER AMPLIFIER

RF-5833H-PA001
(REAR VIEW)

POWER AMPLIFIER

COAXIAL CABLE ASSEMBLY
(10497-5015-01)

TO AC POWER
90-300 VAC, 47-400 Hz

AC POWER CABLE
(10181-9831-009)

TO AC POWER
90-300 VAC, 47-400 Hz

TO GROUND

FAN POWER CABLE

10181-9833-004

DC POWER CABLE

TO VHF ANTENNA

TO GROUND

AUDIO CABLE
(10497-5036-01)

HANDSET
(H-250/U)
(10075-1369)

RF-5833H-PA001 POWER AMPLIFIER

RF-5833H-PA001
(REAR VIEW)

POWER AMPLIFIER

COAXIAL CABLE ASSEMBLY
(10497-5015-01)

TO AC POWER
90-300 VAC, 47-400 Hz

AC POWER CABLE
(10181-9831-009)

TO AC POWER
90-300 VAC, 47-400 Hz

TO GROUND

FAN POWER CABLE

10181-9833-004

DC POWER CABLE

TO VHF ANTENNA

TO GROUND

AUDIO CABLE
(10497-5036-01)

HANDSET
(H-250/U)
(10075-1369)

RF-5833H-PA001 POWER AMPLIFIER

RF-5833H-PA001
(REAR VIEW)

POWER AMPLIFIER

COAXIAL CABLE ASSEMBLY
(10497-5015-01)

TO AC POWER
90-300 VAC, 47-400 Hz

AC POWER CABLE
(10181-9831-009)

TO AC POWER
90-300 VAC, 47-400 Hz

TO GROUND

FAN POWER CABLE

10181-9833-004

DC POWER CABLE

TO VHF ANTENNA

TO GROUND

Audio Cable
(10497-5036-01)

Handset
(H-250/U)
(10075-1369)
NOTE: BE SURE TO GROUND SYSTEM FROM THE GROUNDING STUD PROVIDED ON THE SYSTEM MOUNT.
Falcon II® AN/PRC-150(C) Application Guide

**System Interconnect Diagrams**

RF-5800H-B004

- **SPEAKER**
  - RF-5980-SA001

- **SPEAKER CABLE ASSEMBLY**
  - (10535-0707)

- **AN/PRC-150 MANPACK RADIO**

- **R/T-PA**
  - CONTROL CABLE
  - (10535-0720)

- **RF-5832H-PA POWER AMPLIFIER**

- **AC POWER CABLE**
  - (10181-9831)

- **AC POWER**

- **TO GROUND**

- **RF COAX CABLE**
  - (10181-9825 OR 10181-9824)

- **R/T-PA COAX CABLE**
  - (10181-9821)

- **SPEAKER CABLE ASSEMBLY**
  - (10535-0706)

- **POWER AMPLIFIER**
  - RF-5051PS-125

- **POWER SUPPLY**
  - RF-382 or RF-5382

- **PA COUPLER**
  - CONTROL CABLE
  - 10181-9823-XXX or 12020-1460-AXXX (RF-5382)

- **PA TO COUPLER RF COAX CABLE**
  - (10181-9824)

- **PA DC POWER INTERCONNECT CABLE**
  - (10181-9833)

- **HANDSET**
  - (H-250/U)
  - (10075-1399)

- **NOTE: BE SURE TO GROUND SYSTEM FROM THE GROUNDING STUD PROVIDED ON THE SYSTEM MOUNT.**

- ***COUPLER AND CABLES PURCHASED SEPARATELY**
VEHICULAR SYSTEMS

20-WATT HF-SSB/VHF-FM VEHICULAR ADAPTER

RF-5800H-V006

The RF-5800H-V006 provides the equipment complement necessary to transform the transceiver to a 20-watt HF-SSB (10-watt VHF-FM) vehicular system using the internal power amplifier. The adapter facilitates rapid conversion to a manportable configuration. This system is recommended for vehicular applications where the radio-to-antenna separation is greater than 3.3 feet (~1 meter).

Features

» A distribution unit on shock mount that provides power conditioning and switched auxiliary power output for a speaker or other accessories
» 1.6-60 MHz frequency range
» Separate ports for HF and VHF antennas
» Fully ruggedized per MIL-STD-810F
» Matches standard 8-ft. (~2.4-m), 10-ft. (~3-m), 16-ft. (~5-m), and 35-ft. (~11-m) whip antennas
» Operation from 26.5 VDC nominal with external coupler
» Overload protection
» Built-In Test (BIT)

The RF-5800H-V006 includes:

<table>
<thead>
<tr>
<th>Product Number</th>
<th>Product Name</th>
<th>Qty</th>
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</thead>
<tbody>
<tr>
<td>RF-5211VSM</td>
<td>R/T Vehicular Shock Mount with Distribution Unit</td>
<td>1</td>
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<tr>
<td>12045-5700-A30</td>
<td>RT to Distribution Box Cable</td>
<td>1</td>
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<tr>
<td>10181-9826-020</td>
<td>Power Cable Assembly</td>
<td>1</td>
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<tr>
<td>10515-0289-4200</td>
<td>20-Watt System Installation Manual</td>
<td>1</td>
</tr>
</tbody>
</table>


125-WATT HF-SSB VEHICULAR ADAPTER

RF-5800H-V004

The RF-5800H-V004 provides the equipment complement necessary to transform the transceiver into a 125-watt PEP/Average HF-SSB vehicular system. The adapter facilitates rapid conversion to a manportable configuration. Color: Green.

Note: The Receiver/Transmitter is not included and must be ordered separately.

Features

» USB, LSB, CW, and AME operation in the 1.6-30 MHz HF frequency band
» Solid-state, broadband RF power amplifier
» Small size and weight
» Fully ruggedized and submersible per MIL-STD-810F
» Overload protection
» Operates from 26.5 VDC nominal
» Built-In Test (BIT)

The RF-5800H-V004 includes:

<table>
<thead>
<tr>
<th>Product Number</th>
<th>Product Name</th>
<th>Qty</th>
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</thead>
<tbody>
<tr>
<td>RF-5211VSM</td>
<td>R/T Vehicular Shock Mount</td>
<td>1</td>
</tr>
<tr>
<td>RF-5071VSM-03</td>
<td>PA Vehicular Shock Mount</td>
<td>1</td>
</tr>
<tr>
<td>RF-5832H-PA001</td>
<td>125-Watt PA</td>
<td>1</td>
</tr>
<tr>
<td>10181-9821-020</td>
<td>Coax Cable Assembly</td>
<td>1</td>
</tr>
<tr>
<td>10181-9826-020</td>
<td>Power Cable Assembly</td>
<td>1</td>
</tr>
<tr>
<td>10515-0124-4200</td>
<td>125-Watt Installation Manual</td>
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<tr>
<td>10535-0720-A020</td>
<td>Control Cable Assembly, PA-RT</td>
<td>1</td>
</tr>
<tr>
<td>10400-1136-A006</td>
<td>Ground Strap</td>
<td>1</td>
</tr>
</tbody>
</table>

Note: Configuration is for HF communications only and will not operate in the 30 to 60 MHz frequency band.
150-WATT HF/VHF VEHICULAR ADAPTER

RF-5800H-V001

The RF-5800H-V001 provides the equipment complement necessary to transform the transceiver into a 150-watt PEP/Average HF-SSB (60-watt VHF-FM) vehicular system. The adapter facilitates rapid conversion to a manportable configuration.

Color: Green.

Note: The Receiver/Transmitter is not included and must be ordered separately.

Features

- USB, LSB, CW, AME, and FM operation from 1.6-60 MHz frequency band
- Solid-state, broadband RF power amplifier
- Built-in loudspeaker
- Separate HF and VHF RF outputs
- Small size and weight
- Fully ruggedized per MIL-STD-810F
- Heatsink and fan for continuous keydown
- Overload protection
- Operates from 26.5 VDC
- Built-In Test (BIT)

The RF-5800H-V001 includes:

<table>
<thead>
<tr>
<th>Product Number</th>
<th>Product Name</th>
<th>Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>10497-0200-01</td>
<td>PA Vehicular Shock Mount</td>
<td>1</td>
</tr>
<tr>
<td>RF-5833H-PA001</td>
<td>150-Watt PA</td>
<td>1</td>
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<tr>
<td>10497-5020-A08</td>
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<td>150-Watt Installation Manual</td>
<td>1</td>
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<tr>
<td>10535-0720-B17</td>
<td>Control Cable Assembly (PA-RT)</td>
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</tr>
<tr>
<td>7147-1167-3</td>
<td>Ground Strap</td>
<td>1</td>
</tr>
</tbody>
</table>
**Vehicular Systems**

**150-WATT HF/VHF VEHICULAR ADAPTER WITH COLLOCATION FILTERING**

The RF-5800H-V002 provides the equipment complement necessary to transform the transceiver to a 150-watt PEP/Average HF-SSB (60-watt VHF-FM) vehicular system. The adapter includes the RF-5245 Pre/postselector and an HF low-pass filter for the attenuation of unwanted signals in collocated applications. The adapter facilitates the rapid conversion to a manportable configuration.

Color: Green.

*Note: The Receiver/Transmitter is not included and must be ordered separately.*

**Features**

- USB, LSB, CW, AME, and FM operation from 1.6-60 MHz frequency band
- Solid-state, broadband RF power amplifier
- Built-in loudspeaker
- Built-in pre/postselector provides attenuation of unwanted signals at frequencies 10% or greater from the carrier
- Integral low-pass filter provides additional attenuation of unwanted signals at frequencies greater than 35 MHz
- Separate HF and VHF RF outputs
- Small size and weight
- Fully ruggedized per MIL-STD-810F
- Heatsink and fan for continuous keydown
- Operates from 26.5 VDC

<table>
<thead>
<tr>
<th>Product Number</th>
<th>Product Name</th>
<th>Qty</th>
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</thead>
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<tr>
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<td>PA vehicular shock mount</td>
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<tr>
<td>RF-5833H-PA004</td>
<td>150-Watt PA with RF-5245</td>
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<tr>
<td>10497-0360-02</td>
<td>25 MHz Low Pass Filter</td>
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<td>Coax Cable Assembly</td>
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</tr>
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<td>10497-5036-01</td>
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<td>Power Cable Assembly</td>
<td>1</td>
</tr>
<tr>
<td>10515-0122-4200</td>
<td>150-Watt Installation Manual</td>
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<td>10535-0720-B17</td>
<td>Control Cable Assembly (PA-RT)</td>
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<td>7147-1167-3</td>
<td>Ground Strap</td>
<td>1</td>
</tr>
</tbody>
</table>

**400-WATT HF-SSB VEHICULAR ADAPTER**

The RF-5800H-V003 provides the equipment complement necessary to transform the transceiver into a 400-watt PEP/Average HF-SSB vehicular system. The adapter facilitates rapid conversion to a manportable configuration. Configuration is for HF communications only and will not operate in the 30 to 60 MHz frequency band.

Color: Green.

*Note: The Receiver/Transmitter is not included and must be ordered separately.*

**Features**

- SSB, LSB, CW and AME operation in the 1.6-30 MHz HF frequency band
- Solid-state, broadband RF power amplifier
- Small size and weight
- Fully ruggedized per MIL-STD-810F
- Overload protection
- Operates from 26.5 VDC nominal
- Built-In Test (BIT)
The RF-5800H-V003 includes:

<table>
<thead>
<tr>
<th>Product Number</th>
<th>Product Name</th>
<th>Qty</th>
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<tbody>
<tr>
<td>RF-5834H-PA001</td>
<td>400-Watt Power Amplifier</td>
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<tr>
<td>10181-5074-03</td>
<td>PA Vehicular Shock Mount</td>
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</tr>
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<td>RF-5211VSM</td>
<td>R/T Vehicular Shock Mount</td>
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<td>Coax Cable Assembly</td>
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<td>400-Watt Installation Manual</td>
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</tr>
<tr>
<td>10535-0720-A020</td>
<td>Control Cable Assembly, PA-RT</td>
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<tr>
<td>7147-1167-3</td>
<td>Ground Strap</td>
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</table>

AN/VRC-104(V)3 150-WATT VEHICULAR SYSTEM

RF-5800H-V002
The AN/VRC-104(V)3 provides the equipment complement necessary to transform the transceiver to a 150-watt PEP/Average HF-SSB (60-watt VHF-FM) vehicular system. The adapter includes the RF-5245 Pre/postselector and an HF low-pass filter for the attenuation of unwanted signals in collocated applications. The adapter facilitates the rapid conversion to a manportable configuration. This system includes everything needed for a Humvee installation including antenna and coupler.

Color: Green.

Note: The Receiver/Transmitter is not included and must be ordered separately.

Features

- 150-watt PEP/Average
- 1.6 to 30 MHz
- 30 to 60 MHz FM Operation
- Internal ALE and 3rd Generation ALE
- Internal High Speed Modem
- Internal Type I Encryption
- Internal Digital Voice
- 26.6 VDC Operation
- See System Interconnect Diagrams for equipment list

Part Number | Description                                           |
-------------|-------------------------------------------------------|
10181-5178-06| Mounting Kit, Humvee Ant                             |
10497-0200-01| Shk Mt Assy, RF-5073 Vm, CARC Green 383              |
10535-0960-01| Ancillary Items, RF-5800H-V001                       |
10540-0900-01| Ancillary Items, 150 Watt Vehicle Sys (20 Ft Cplr Cbl) |
11080-3970-01| DC Switch Assy, 150w, CARC Green 383                 |
RF-3120-AT360 | Antenna, 35 Ft. Locking, Tilt, Hv, Green            |
RF-382A-15   | RF-382A-15, CARC Green                               |
RF-384VM-03  | Shock Mount, O.D. CARC                                |
RF-5833H-PA004| Falcon II 150W PA WCosit & Prepost                   |
The RF-5800H-B004 provides the equipment complement necessary to transform the transceiver to a 125-watt PEP/Average HF-SSB base station system. The adapter facilitates the rapid conversion to a manportable configuration. A U.S. power connector (NEMA5-15P) is supplied as the standard AC power connector.

Color: Green.

Note: The Receiver/Transmitter is not included and must be ordered separately.

Features

- USB, LSB, CW, and AME operation in the 1.6-30 MHz HF frequency band
- Solid-state, broadband RF power amplifier
- Small size and weight
- Integrated loudspeaker
- Fully ruggedized per MIL-STD-810F
- Overload protection
- 115 or 230 VAC, 47-400 Hz power operation
- Built-In Test (BIT)
- Removable Radio Tray

The RF-5800H-B004 includes:

<table>
<thead>
<tr>
<th>Product Number</th>
<th>Product Name</th>
<th>Qty</th>
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<tr>
<td>RF-5832H-PA101</td>
<td>Falcon II 125-Watt PA</td>
<td>1</td>
</tr>
<tr>
<td>RF-5051-PS001</td>
<td>Power Supply</td>
<td>1</td>
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<tr>
<td>RF-5980-SA001</td>
<td>Loudspeaker</td>
<td>1</td>
</tr>
<tr>
<td>10535-0707-A003</td>
<td>Speaker Audio Cable Assembly</td>
<td>1</td>
</tr>
<tr>
<td>10535-0706-A015</td>
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<tr>
<td>10181-9821-015</td>
<td>Coax Cable Assembly</td>
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<tr>
<td>10181-9833-004</td>
<td>DC Power Cable Assembly</td>
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<td>125-Watt Installation Manual</td>
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<td>Control Cable Assembly, PA-RT</td>
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<tr>
<td>10181-9831-009</td>
<td>AC Power Cable (NEMA 5-15P) P/O RF-5051-PS001</td>
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<tr>
<td>10400-1136-A006</td>
<td>Ground Strap</td>
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Note: Configuration is for HF communications only and will not operate in the 30 to 60 MHz frequency band.
150-WATT HF/VHF BASE STATION ADAPTER

RF-5800H-B001 consists of:

<table>
<thead>
<tr>
<th>Product Number</th>
<th>Product Name</th>
<th>Qty</th>
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<tbody>
<tr>
<td>10497-0850-03</td>
<td>Stack Bracket (Black)</td>
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<tr>
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<td>Power Amplifier - 150 Watts PEP/Average</td>
<td>1</td>
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<tr>
<td>RF-5051-PS001</td>
<td>Power Supply</td>
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</tr>
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<td>Coax Cable Assembly</td>
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<td>10497-5036-01</td>
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<td>1</td>
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<td>10515-0122-4200</td>
<td>150-Watt Installation Manual</td>
<td>1</td>
</tr>
<tr>
<td>10535-0720-B17</td>
<td>Control Cable Assembly, (PA/RT)</td>
<td>1</td>
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<tr>
<td>10181-9833-004</td>
<td>DC Power Cable Assembly</td>
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<tr>
<td>10181-9831-009</td>
<td>AC Power Cable (NEMA 5-15P) P/O RF-5051-PS001</td>
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<tr>
<td>10400-1136-A006</td>
<td>Ground Strap</td>
<td>1</td>
</tr>
</tbody>
</table>

A U.S. power connector (NEMA 5-15P) is supplied as the standard AC power connector.

RF-5800H-B001 provides the equipment complement necessary to transform the transceiver to a 150-watt PEP/Average HF-SSB (60-watt VHF-FM) Base Station system. The adapter facilitates the rapid conversion to a manportable configuration. A U.S. power connector (NEMA 5-15P) is supplied as the standard AC power connector. Order UK or EU cord separately.

Color: Green.

Note: The Receiver/Transmitter is not included and must be ordered separately.

Features

- USB, LSB, CW, AME, and FM operation from 1.6-60 MHz frequency band
- Solid-state, broadband RF power amplifier
- Built-in loudspeaker
- Separate HF and VHF RF outputs
- Small size and weight
- Fully ruggedized per MIL-STD-810F
- Heatsink fan for continuous keydown
- Overload protection
- 115 or 230 VAC, 47-400 Hz power operation
- Built-In Test (BIT)
150-WATT HF/VHF BASE STATION ADAPTER WITH COLLOCATION FILTERING

RF-5800H-B002

The RF-5800H-B002 provides the equipment complement necessary to transform the transceiver to a 150-watt PEP/Average HF-SSB (60-watt VHF-FM) base station system. The adapter includes the RF-5245 Pre/postselector and an HF low-pass filter for the attenuation of unwanted signals in collocated applications. The adapter facilitates rapid conversion to a manportable configuration.

Color: Green.

Note: The Receiver/Transmitter and the UK or EU Cord are not included and must be ordered separately.

Features

- USB, LSB, CW, AME, and FM operation from 1.6-60 MHz frequency band
- Solid-state, broadband RF power amplifier
- Built-in loudspeaker
- Built-in pre/postselector provides attenuation of unwanted signals at frequencies 10% or greater from the carrier
- Integral low-pass filter provides additional attenuation of unwanted signals at frequencies greater than 35 MHz
- Separate HF and VHF RF outputs
- Small size and weight
- Fully ruggedized per MIL-STD-810F
- Heatsink fan for continuous keydown
- Overload protection
- 115 or 230 VAC, 47-400 Hz power operation
- Built-In Test (BIT)

The RF-5800H-B002 includes:

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<thead>
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<th>Product Name</th>
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<td>150-Watt PA with RF-5245</td>
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<tr>
<td>10497-0360-02</td>
<td>25 MHz Low Pass Filter</td>
<td>1</td>
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<td>10299-5051-03</td>
<td>Power Supply</td>
<td>1</td>
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<tr>
<td>10497-5015-01</td>
<td>Coax Cable Assembly</td>
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<td>10497-5036-01</td>
<td>Audio Cable Assembly</td>
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<td>10181-9831-009</td>
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<tr>
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<td>Ground Strap</td>
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</table>
400-WATT HF-SSB BASE STATION ADAPTER

Features

- USB, LSB, CW, and AME operation in the 1.6-30 MHz HF frequency band
- Solid-state, broadband RF power amplifier
- Small size and weight
- Integrated loudspeaker
- Fully ruggedized per MIL-STD-810F
- Overload protection
- 115 or 230 VAC, 47-400 Hz power operation
- Built-In Test (BIT)

The RF-5800H-B003 includes:

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<th>Product Name</th>
<th>Qty</th>
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<tbody>
<tr>
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<td>400-Watt Power Amplifier</td>
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<tr>
<td>10558-2000-03</td>
<td>Base Station Mount</td>
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</tr>
<tr>
<td>RF-5051-PS001</td>
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<td>RF-5980-SA001</td>
<td>Tactical Loudspeaker</td>
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<td>10535-0706-A015</td>
<td>Speaker Power Cable Assembly</td>
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<td>10181-9821-015</td>
<td>Coax Cable Assembly</td>
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Note: Configuration is for HF communications only and will not operate in the 30 to 60 MHz frequency band.

RF-5800H-B003

The RF-5800H-B003 provides the equipment complement necessary to transform the transceiver to a 400-watt PEP/Average HF-SSB base station system. The adapter facilitates the rapid conversion to a manportable configuration.

Color: Green.

Note: The Receiver/Transmitter and the UK or EU Cord are not included and must be ordered separately.
TRANSPORTABLE SYSTEMS

125-WATT HF-SSB MINI-TRANSIT CASE ADAPTER

RF-5800H-TM004
The RF-5800H-TM004 provides the equipment complement necessary to transform the transceiver to a 125-watt PEP/Average HF-SSB Mini-Transit Case system. The transit case adapter provides the durability of a base station with the transport flexibility and portability of a vehicular system. A clip on each corner of the case can be used to clamp the cases together to create a portable rack. If the cases are installed in a shelter and the system needs to be removed, it is easy to separate the cases from each other. Storage of all interface cables in the cases facilitates easy equipment deployment. The adapter facilitates the rapid conversion to a manportable configuration. Note: Configuration is for HF communications only and will not operate in the 30 to 60 MHz frequency band.

Note: The Receiver/Transmitter and the UK or EU Cord are not included and must be ordered separately.

Features

» USB, LSB, CW, and AME operation in the 1.6-30 MHz HF frequency band
» Solid-state, broadband RF power amplifier
» Black double-ended environmentally sealed cases
» Weight: Less than 80 lbs. (~36.3 kg) per case
» Integrated loudspeaker
» Fully ruggedized per MIL-STD-810F
» Overload protection
» 115 or 230 VAC

The RF-5800H-TM004 includes:

<table>
<thead>
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<th>Product Name</th>
<th>Qty</th>
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<td>125-Watt PA</td>
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<tr>
<td>10400-0562-04</td>
<td>Black Mini-Transit Cases</td>
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<tr>
<td>10558-2000-04</td>
<td>Base Station Mount</td>
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<td>RF-5051-PS001</td>
<td>Power Supply</td>
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<td>RF-5980-SA001</td>
<td>Loudspeaker</td>
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<tr>
<td>10535-0707-A003</td>
<td>Speaker Audio Cable Assembly</td>
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<td>AC Power Cable (NEMA 5-15P) P/O RF-5051</td>
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<tr>
<td>10400-1136-A006</td>
<td>Ground Strap</td>
<td>1</td>
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</table>
150-WATT HF/VHF MINI-TRANSIT CASE ADAPTER

RF-5800H-TM001

The RF-5800H-TM001 provides the equipment complement necessary to transform the transceiver to a 150-watt PEP/Average HF-SSB/VHF-FM Mini-Transit Case system. The transit case adapter provides the durability of a base station with the transport flexibility and portability of a vehicular system. A clip on each corner of the case can be used to clamp the cases together to create a portable rack. If the cases are installed in a shelter and the system needs to be removed, it is easy to separate the cases from each other. Storage of all interface cables in the cases facilitates easy equipment deployment. The adapter facilitates the rapid conversion to a manportable configuration.

Color: Black.

Note: The Receiver/Transmitter and the UK or EU Cord are not included and must be ordered separately.

Features

» USB, LSB, CW, AME, and FM operation from 1.6-60 MHz
» Solid-state, broadband RF power amplifier
» Built-in loudspeaker
» Built-in Pre/Postselector provides attenuation of unwanted signals at frequencies 10% or greater from the carrier
» Integral low-pass filter provides additional attenuation of unwanted signals at frequencies greater than 35 MHz
» Separate HF and VHF RF outputs
» Small size and weight
» Fully ruggedized per MIL-STD-810F
» Heatsink fan for continuous keydown
» Overload protection
» 115 or 230 VAC, 47-400 Hz power operation
» Built-In Test (BIT)

The RF-5800H-TM001 includes:

<table>
<thead>
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<th>Product Name</th>
<th>Qty</th>
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<td>10400-0532-04</td>
<td>Black Mini-Transit Cases</td>
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<td>RF-5051-001 Power Supply</td>
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<td>Coax Cable Assembly</td>
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<td>10497-5036-01</td>
<td>Audio Cable Assembly</td>
<td>1</td>
</tr>
<tr>
<td>10535-0720-B17</td>
<td>Control Cable Assembly (PA-RT)</td>
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<tr>
<td>10181-9833-004</td>
<td>DC Power Cable Assembly</td>
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<td>AC Power Cable</td>
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<tr>
<td>10515-0122-4200</td>
<td>150-Watt Installation Manual</td>
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</tr>
<tr>
<td>10400-1136-A006</td>
<td>Ground Strap</td>
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</tr>
</tbody>
</table>
150-WATT HF/VHF MINI-TRANSIT CASE ADAPTER WITH COLLOCATION FILTERING

RF-5800H-TM002
The RF-5800H-TM002 provides the equipment complement necessary to transform the transceiver to a 150-watt PEP/Average HF-SSB/VHF-FM mini-transit case system. The adapter includes the RF-5245 Pre/postselector and an HF low-pass filter for the attenuation of unwanted signals in collocated applications. The transit case adapter provides the durability of a base station with the transport flexibility and portability of a vehicular system. A clip on each corner of the case can be used to clamp the cases together to create a portable rack. If the cases are installed in a shelter and the system needs to be removed, it is easy to separate the cases from each other. Storage of all interface cables in the cases facilitates easy equipment deployment. The adapter facilitates the rapid conversion to a manportable configuration.

**Note:** The Receiver/Transmitter and the UK or EU Cord are not included and must be ordered separately.

**Features**
- USB, LSB, CW, AME, and FM operation in the 1.6-60 MHz frequency band
- 150-watt HF/SSB 1.6-30 MHz; 60-watt VHF-FM 30-60 MHz
- Built-in pre/postselector provides attenuation of unwanted signals in collocated applications
- Integral low-pass filter provides attenuation of unwanted signals at frequencies greater than 25 MHz
- Solid-state, broadband RF power amplifier
- Separate HF and VHF RF outputs
- Heatsink fan for continuous keydown operation
- Black double-ended environmentally sealed cases
- Weight: Less than 80 lbs. (~36.3 kg) per case
- Integral loudspeaker
- Fully ruggedized per MIL-STD-810E
- Overload protection
- 115 or 230 VAC, 47-400Hz power operation

The RF-5800H-TM002 includes:

<table>
<thead>
<tr>
<th>Product Number</th>
<th>Product Name</th>
<th>Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>RF-5833H-PA004</td>
<td>150-Watt PA with RF-5245 Pre/postselector</td>
<td>1</td>
</tr>
<tr>
<td>10400-0562-04</td>
<td>Black Mini-Transit Cases</td>
<td>2</td>
</tr>
<tr>
<td>RF-5051-PS001</td>
<td>Power Supply</td>
<td>1</td>
</tr>
<tr>
<td>10497-5015-01</td>
<td>Coax Cable Assembly</td>
<td>1</td>
</tr>
<tr>
<td>10497-5036-01</td>
<td>Audio Cable</td>
<td>1</td>
</tr>
<tr>
<td>10181-9833-004</td>
<td>DC Power Cable</td>
<td>1</td>
</tr>
<tr>
<td>10515-0122-4200</td>
<td>150-Watt Install Manual</td>
<td>1</td>
</tr>
<tr>
<td>10535-0720-B17</td>
<td>Control Cable Assembly, PA-RT</td>
<td>1</td>
</tr>
<tr>
<td>10181-9831-009</td>
<td>AC Power Cable</td>
<td>1</td>
</tr>
<tr>
<td>10497-0360-02</td>
<td>25 MHz Low-Pass Filter</td>
<td>1</td>
</tr>
<tr>
<td>10400-1136-A006</td>
<td>Ground Strap</td>
<td>1</td>
</tr>
</tbody>
</table>
400-WATT HF-SSB MINI-TRANSIT CASE ADAPTER

RF-5800H-TM003
The RF-5800H-TM003 provides the equipment complement necessary to transform the transceiver to a 400-watt PEP/Average HF-SSB mini-transit case system. The transit case adapter provides the durability of a base station with the transport flexibility and portability of a vehicular system. A clip on each corner of the case can be used to clamp the cases together to create a portable rack. If the cases are installed in a shelter and the system needs to be removed, it is easy to separate the cases from each other. Storage of all interface cables in the cases facilitates easy equipment deployment. The adapter facilitates the conversion to a manportable configuration. Note: Configuration is for HF communications only and will not operate in the 30 to 60 MHz frequency band.

Note: The Receiver/Transmitter and the UK or EU Cord are not included and must be ordered separately.

Features

- USB, LSB, CW, and AME operation in the 1.6-30 MHz HF frequency band
- Solid-state, broadband RF power amplifier
- Black double-ended environmentally sealed cases
- Weight: Less than 80 lbs. (~36.3 kg) per case
- Integrated loudspeaker
- Fully ruggedized per MIL-STD-810F
- Overload protection
- 115 or 230 VAC, 47-400 Hz power operation
- Built-In Test (BIT)

The RF-5800H-TM003 includes:

<table>
<thead>
<tr>
<th>Product Number</th>
<th>Product Name</th>
<th>Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>RF-5834H-PA001</td>
<td>400-Watt Power Amplifier</td>
<td>1</td>
</tr>
<tr>
<td>RF-5072VSM</td>
<td>Dual Shock Mount</td>
<td>1</td>
</tr>
<tr>
<td>10181-9836-002</td>
<td>DC Power Jumper Cable</td>
<td>1</td>
</tr>
<tr>
<td>10400-0562-04</td>
<td>Transit Case</td>
<td>1</td>
</tr>
<tr>
<td>10400-1136-A12</td>
<td>Ground Strap, (12 in; ~30.5 cm)</td>
<td>2</td>
</tr>
<tr>
<td>10400-1136-A24</td>
<td>Ground Strap, (24 in; ~61 cm)</td>
<td>4</td>
</tr>
<tr>
<td>RF-5051-PS001</td>
<td>AC Power Supply</td>
<td>2</td>
</tr>
<tr>
<td>RF-5074VSM</td>
<td>Shock Mount</td>
<td>1</td>
</tr>
<tr>
<td>10181-9834-004</td>
<td>Transit Case</td>
<td>1</td>
</tr>
<tr>
<td>RF-5980-SA001</td>
<td>Tactical Loudspeaker</td>
<td>1</td>
</tr>
<tr>
<td>10181-9804</td>
<td>Ground Strap</td>
<td>1</td>
</tr>
<tr>
<td>10181-9821-008</td>
<td>Coax Cable Assembly</td>
<td>1</td>
</tr>
<tr>
<td>10400-0422-02</td>
<td>Transit Case</td>
<td>1</td>
</tr>
<tr>
<td>10400-0585-01</td>
<td>Base Mount</td>
<td>4</td>
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<tr>
<td>10400-0586-01</td>
<td>Bracket Base Plate</td>
<td>2</td>
</tr>
<tr>
<td>10391-9999-01</td>
<td>Handset/Mic Bracket</td>
<td>1</td>
</tr>
<tr>
<td>10488-1226-01</td>
<td>Pouch Case</td>
<td>1</td>
</tr>
<tr>
<td>10535-0707-A002</td>
<td>Speaker Audio Cable Assembly</td>
<td>1</td>
</tr>
<tr>
<td>10535-0706-A008</td>
<td>Speaker Power Cable Assembly</td>
<td>1</td>
</tr>
<tr>
<td>10588-1017-01</td>
<td>Mounting Plate</td>
<td>1</td>
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<tr>
<td>10588-1018-01</td>
<td>Speaker Bracket</td>
<td>1</td>
</tr>
<tr>
<td>10588-1019-01</td>
<td>Speaker Support</td>
<td>1</td>
</tr>
<tr>
<td>10588-1020-01</td>
<td>Mounting Plate</td>
<td>1</td>
</tr>
<tr>
<td>10515-0123-4200</td>
<td>400-Watt Installation Manual</td>
<td>1</td>
</tr>
<tr>
<td>10535-0720-A008</td>
<td>Control Cable Assembly, PA-RT</td>
<td>1</td>
</tr>
</tbody>
</table>
**150-WATT ANTENNA COUPLER MINI-TRANSIT TWO-CASE SET**

RF-5382H-TM001

The RF-5382H-TM001 is a set of two cases designed to complement the RF-5800H-TM001, -TM002, and -TM004 transit mini-case systems. Case 1 contains the antenna coupler, ruggedly mounted on a removable tray. A whip antenna mount is located on the coupler tray. Case 2 is used to store the control and coax cable assemblies that interface to the radio system.

Color: Black.

The RF-5382H-TM001 includes:

<table>
<thead>
<tr>
<th>Product Number</th>
<th>Product Name</th>
<th>Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>RF-5382H</td>
<td>Antenna Coupler</td>
<td>1</td>
</tr>
<tr>
<td>N/A</td>
<td>Whip Antenna Mount</td>
<td>1</td>
</tr>
<tr>
<td>12020-1460-A250</td>
<td>Control Cable</td>
<td>1</td>
</tr>
<tr>
<td>10181-9824-250</td>
<td>Coax Cable</td>
<td>1</td>
</tr>
</tbody>
</table>

**Case 1:**
60 lbs. (~27.2 kg)
22.5 W x 22.5 D x 14.5 H in. (~57.2 W x 57.2 D x 36.8 H cm)

**Case 2:**
20 lbs. (~9 kg)
22.5 W x 22.5 D x 24.5 H in. (~57.2 W x 57.2 D x 62.2 H cm)

Also included with the RF-5382H-TM001 is the following:

- 250-foot (approximately 76 meters) Control Cable
- 250-foot (approximately 76 meters) Coax Cable

**400-WATT ANTENNA COUPLER MINI-TRANSIT TWO-CASE SET**

RF-382A-15TM

The RF-382A-15TM is a set of two cases designed to complement the RF-5800H-TM003 400-watt transit mini-case system. Case 1 contains the antenna coupler, ruggedly mounted on a removable tray. A whip antenna mount is located on the coupler tray. Case 2 is used to store the control and coax cable assemblies that interface to the radio system.

Color: Black.

The RF-382A-15TM includes:

<table>
<thead>
<tr>
<th>Product Number</th>
<th>Product Name</th>
<th>Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>RF-382A-15</td>
<td>Antenna Coupler</td>
<td>1</td>
</tr>
<tr>
<td>N/A</td>
<td>Whip Antenna Mount</td>
<td>1</td>
</tr>
<tr>
<td>10181-9823-250</td>
<td>Coupler Control Cable</td>
<td>1</td>
</tr>
<tr>
<td>10181-9824-250</td>
<td>Coax Cable</td>
<td>1</td>
</tr>
</tbody>
</table>

**Case 1:**
65 lbs. (~29.5 kg)
22.5 W x 22.5 D x 14.5 H in. (~57.2 W x 57.2 D x 36.8 H cm)

**Case 2:**
20 lbs. (~9 kg)
22.5 W x 22.5 D x 24.5 H in. (~57.2 W x 57.2 D x 36.8 H cm)
ANTENNA COUPLERS

150-WATT HF FAST-TUNE ANTENNA COUPLER

RF-5382H-CU001
The RF-5382H automatically matches the output of transceivers and power amplifiers to a wide variety of whip, dipole, and longwire antennas over the frequency range of 1.6 to 30 MHz. The coupler features BIT, overload, and lightning surge protection and is designed to handle 150 watts PEP/Average and includes a 50-ohm output connector (type N female) for applications where it is desirable to quickly change from tuning a whip antenna to tuning a 50-ohm antenna. It provides automatic switching to the 50-ohm port for VHF (30 to 60 MHz) operation. Typical tune time is 150 msec after an initial learning tune cycle of typically less than one second. When used in 125-watt and 150-watt configurations, the antenna coupler requires lengths of 10181-9824 coaxial cable and 12020-1460 control cable. Standard lengths are 25, 75, 150, and 250 feet (~7.6, 23, 46, and 76 meters). Use the RF-5800H-V006 Vehicular Adapter for 20-watt configurations with lengths of 10369-7211 Coaxial Cable and 12020-1460 Control Cable. The antenna coupler must be installed onto RF-5384-VM-01 shock mount when deployed in mobile applications.

Finish/Color: CARC Green 383

The RF-5382H-CU001 includes:

<table>
<thead>
<tr>
<th>Product Number</th>
<th>Product Name</th>
<th>Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>RF-5382H-CU001</td>
<td>Coupler Unit</td>
<td>1</td>
</tr>
<tr>
<td>10515-0008-4300</td>
<td>Intermediate Maintenance Manual</td>
<td>1</td>
</tr>
<tr>
<td>12020-0003-01</td>
<td>Ground Strap</td>
<td>1</td>
</tr>
<tr>
<td>12020-1350-02</td>
<td>High Voltage Safety Shield</td>
<td>1</td>
</tr>
</tbody>
</table>

HF FAST-TUNE AUTOMATIC ANTENNA COUPLER

RF-382A-15
The RF-382A-15 automatically matches the output of transceivers and power amplifiers to a wide variety of whip, dipole, and longwire antennas over the frequency range of 1.6 to 30 MHz. The coupler features BIT, overload, and lightning surge protection. It includes a 50-ohm output connector (type N female) for applications where it is desirable to quickly change from tuning a whip antenna to tuning a 50-ohm antenna. Its tune time is 200 msec after an initial learning tune cycle of typically less than three seconds. This antenna coupler requires lengths of 10181-9824 Coaxial Cable, and 10181-9823 Control Cable. Standard lengths are 25, 75, 150, and 250 feet (~7.6, 23, 46, and 76 meters).

Finish/Color: CARC Green 383

The RF-382A-15 includes:

<table>
<thead>
<tr>
<th>Product Number</th>
<th>Product Name</th>
<th>Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>RF-382A-15</td>
<td>Coupler Unit</td>
<td>1</td>
</tr>
<tr>
<td>10515-0008-4300</td>
<td>Intermediate Maintenance Manual</td>
<td>1</td>
</tr>
<tr>
<td>10208-0009</td>
<td>Ground Strap</td>
<td>1</td>
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</table>
ANTENNA COUPLER OPTIONS AND ACCESSORIES

<table>
<thead>
<tr>
<th></th>
<th>RF-5382H-CU001</th>
<th>RF-382A-15</th>
</tr>
</thead>
<tbody>
<tr>
<td>Coax RF Cable</td>
<td>10181-9824-XXX (125-watt and 150-watt systems)</td>
<td>10181-9824-XXX</td>
</tr>
<tr>
<td></td>
<td>10369-7211-XXX (20-watt systems)</td>
<td></td>
</tr>
<tr>
<td>Control Cable</td>
<td>12020-1460</td>
<td>10181-9823-XXX</td>
</tr>
<tr>
<td>Sun Shield</td>
<td>12020-1194-01</td>
<td>10330-9250</td>
</tr>
<tr>
<td>Safety Cover</td>
<td>12020-1350-02 (included with RF-5382H)</td>
<td>10208-0014-01</td>
</tr>
<tr>
<td>Shock Mounts</td>
<td>RF-5384-VM-01</td>
<td>RF-383VM-01 (tracked vehicle)</td>
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<td></td>
<td></td>
<td>RF-384VM-03 (wheeled vehicle)</td>
</tr>
<tr>
<td>Mounting Plate</td>
<td></td>
<td>RF-285-04</td>
</tr>
<tr>
<td>Siting Kits</td>
<td>RF-5351-AT Series</td>
<td>RF-5351-AT Series</td>
</tr>
<tr>
<td>Transit Case Systems</td>
<td>RF-5382H-TM001</td>
<td>RF-382A-15TM</td>
</tr>
</tbody>
</table>

AUDIO AND SPEAKER CABLES

SPEAKER POWER, RF-5980/RF-5850

11068-0018-AXXX
Speaker power cable for connection between the RF-5980-SA001 Tactical Amplified Speaker and RF-5850-PS series power supplies. Standard length is 9 feet (~2.7 meters).

Specify cable length by replacing ‘AXXX’ above:
- A009 9 ft. (~2.7 m) A020 20 ft. (~6 m)
- A015 15 ft. (~4.6 m) A075 75 ft. (~23 m)

POWER AMPLIFIER CONTROL CABLES

REMOTE AND PA CONTROL “Y” CABLE

10535-0730-AX
This cable allows for simultaneous operation of the radio RS-232 ASCII remote control interface and control of the HF power amplifiers. Since both of these interfaces are present on the J6 accessory port, this cable is in a “Y” configuration. The A1 configuration provides for a 10-foot (~3-meter) separation between the R/T and power amplifier and 10 feet (~3 meters) between the R/T and DTE. The A2 configuration provides for a 2-foot (~0.6-meter) separation between the R/T and power amplifier and 7 feet (~2.1 meters) between the R/T and DTE. The data terminal connection utilizes a 9-pin D-connector. Overall length is 10 feet (~3 meters).

PA CONTROL CABLE

10535-0720-AXXX
Cable that interconnects the HF R/T and various power amplifiers, including the RF-5832H-PA101, RF-5833H-PA series, and the RF-5834H-PA001. A version of this cable is included with each RF-5800H-V series vehicular adapter and RF-5800H-B series base station adapter. It is not recommended for lengths greater than 150 feet (~46 meters). Standard length is 20 feet (~6 meters).

Specify cable length by replacing ‘AXXX’ above:
- A002 2 ft. (~0.6 m) A020 20 ft. (~6 m)
- A004 4 ft. (~1.2 m) A024 24 ft. (~7 m)
- A006 6 ft. (~1.8 m) A030 30 ft. (~9 m)
- A008 8 ft. (~2.4 m) A040 40 ft. (~12 m)
- A010 10 ft. (~3 m) A050 50 ft. (~15 m)
- A012 12 ft. (~3.7 m) A060 60 ft. (~18.3 m)
- A015 15 ft. (~4.6 m)
### COUPLER CONTROL CABLES

#### COUPLER CONTROL CABLE, RF-5382H-CU001

**12020-1460-AXXX**

Coupler control cable for the RF-5382H-CU001 150-Watt HF Fast-Tune Antenna Coupler. Maximum recommended length is 250 feet (~76 meters).

Specify cable length by replacing ‘AXXX’ above:

<table>
<thead>
<tr>
<th>Length (ft)</th>
<th>Length (~m)</th>
</tr>
</thead>
<tbody>
<tr>
<td>A003</td>
<td>3 ft. (~0.9 m)</td>
</tr>
<tr>
<td>A010</td>
<td>10 ft. (~3 m)</td>
</tr>
<tr>
<td>A020</td>
<td>20 ft. (~6 m)</td>
</tr>
<tr>
<td>A025</td>
<td>25 ft. (~7.6 m)</td>
</tr>
<tr>
<td>A030</td>
<td>30 ft. (~9 m)</td>
</tr>
<tr>
<td>A040</td>
<td>40 ft. (~12 m)</td>
</tr>
<tr>
<td>A050</td>
<td>50 ft. (~15 m)</td>
</tr>
<tr>
<td>A075</td>
<td>75 ft. (~23 m)</td>
</tr>
<tr>
<td>A100</td>
<td>100 ft. (~30 m)</td>
</tr>
<tr>
<td>A150</td>
<td>150 ft. (~46 m)</td>
</tr>
<tr>
<td>A200</td>
<td>200 ft. (~60 m)</td>
</tr>
<tr>
<td>A250</td>
<td>250 ft. (~76 m)</td>
</tr>
</tbody>
</table>

#### COUPLER CONTROL CABLE, RF-382A-15

**10181-9823-XXX**

Coupler control cable for the RF-382A-15 400-Watt HF Fast-Tune Antenna Coupler. Maximum recommended length is 250 feet (~76 meters). Specify cable length by replacing ‘XXX’ above:

<table>
<thead>
<tr>
<th>Length (ft)</th>
<th>Length (~m)</th>
</tr>
</thead>
<tbody>
<tr>
<td>A003</td>
<td>3 ft. (~0.9 m)</td>
</tr>
<tr>
<td>A010</td>
<td>10 ft. (~3 m)</td>
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<tr>
<td>A020</td>
<td>20 ft. (~6 m)</td>
</tr>
<tr>
<td>A025</td>
<td>25 ft. (~7.6 m)</td>
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<tr>
<td>A030</td>
<td>30 ft. (~9 m)</td>
</tr>
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<td>A040</td>
<td>40 ft. (~12 m)</td>
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<td>A050</td>
<td>50 ft. (~15 m)</td>
</tr>
<tr>
<td>A075</td>
<td>75 ft. (~23 m)</td>
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<tr>
<td>A100</td>
<td>100 ft. (~30 m)</td>
</tr>
<tr>
<td>A150</td>
<td>150 ft. (~46 m)</td>
</tr>
<tr>
<td>A200</td>
<td>200 ft. (~60 m)</td>
</tr>
<tr>
<td>A250</td>
<td>250 ft. (~76 m)</td>
</tr>
</tbody>
</table>

### COAXIAL CABLES

#### COAXIAL CABLE, RG-213, TYPE N TO BNC

**10369-7211-XXX**

Preassembled M17/74-RG213 coaxial cable assembly with one type N male and one BNC male connector end. Due to losses at higher frequencies, this cable is not recommended at lengths greater than 100 feet (~30 meters) for VHF High and UHF.

Specify cable length by replacing ‘XXX’ above:

<table>
<thead>
<tr>
<th>Length (ft)</th>
<th>Length (~m)</th>
</tr>
</thead>
<tbody>
<tr>
<td>007</td>
<td>7 ft. (~2.1 m)</td>
</tr>
<tr>
<td>009</td>
<td>9 ft. (~2.7 m)</td>
</tr>
<tr>
<td>010</td>
<td>10 ft. (~3 m)</td>
</tr>
<tr>
<td>0015</td>
<td>15 ft. (~4.6 m)</td>
</tr>
<tr>
<td>20</td>
<td>20 ft. (~6 m)</td>
</tr>
<tr>
<td>25</td>
<td>25 ft. (~7.6 m)</td>
</tr>
<tr>
<td>30</td>
<td>30 ft. (~9 m)</td>
</tr>
<tr>
<td>040</td>
<td>40 ft. (~12 m)</td>
</tr>
<tr>
<td>050</td>
<td>50 ft. (~15 m)</td>
</tr>
</tbody>
</table>

#### COAXIAL CABLE, RG-213, BNC TO BNC

**10369-7212-XXX**

Preassembled M17/74-RG213 coaxial cable assembly with BNC male connectors. Due to losses at higher frequencies, this cable is not recommended at lengths greater than 100 feet (~30 meters) for VHF High and UHF.

Specify cable length by replacing ‘XXX’ above:

<table>
<thead>
<tr>
<th>Length (ft)</th>
<th>Length (~m)</th>
</tr>
</thead>
<tbody>
<tr>
<td>005</td>
<td>5 ft. (~1.5 m)</td>
</tr>
<tr>
<td>010</td>
<td>10 ft. (~3 m)</td>
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<tr>
<td>0015</td>
<td>15 ft. (~4.6 m)</td>
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<tr>
<td>020</td>
<td>20 ft. (~6 m)</td>
</tr>
<tr>
<td>025</td>
<td>25 ft. (~7.6 m)</td>
</tr>
<tr>
<td>030</td>
<td>30 ft. (~9 m)</td>
</tr>
<tr>
<td>040</td>
<td>40 ft. (~12 m)</td>
</tr>
<tr>
<td>050</td>
<td>50 ft. (~15 m)</td>
</tr>
<tr>
<td>060</td>
<td>60 ft. (~18.3 m)</td>
</tr>
</tbody>
</table>
COAXIAL CABLE, LOW LOSS, TYPE N TO TYPE N

10513-0810-AXXX

Low-loss preassembled coaxial cable, with type N male connectors, especially designed for antenna runs in an outdoor environment. The cable is designed for 20-year outdoor use, incorporating a UV resistant jacket and waterproofing compound inside the jacket. The shielding is typically 90 dB versus 40 dB typical for single shielded cables, making it ideal for reducing interference in multi-radio environments. Typical attenuation is 0.7 dB/100 feet (~30 meters) at 30 MHz and 2.7 dB/100 feet (~30 meters) 450 MHz.

Specify cable length by replacing ‘AXXX’ above:
A006  6 ft. (~1.8 m)  A100  100 ft. (~30 m)
A010  10 ft. (~3 m)   A150  150 ft. (~46 m)
A025  25 ft. (~7.6 m) A200  200 ft. (~60 m)
A050  50 ft. (~15 m) A250  250 ft. (~76 m)
A075  75 ft. (~23 m)

COAXIAL CABLE, LOW LOSS, TYPE N TO BNC

10513-0811-AXXX

Low-loss preassembled coaxial cable, with one type N male and one type BNC connector, especially designed for antenna runs in an outdoor environment. The cable is designed for 20-year outdoor use, incorporating a UV resistant jacket and waterproofing compound inside the jacket. The shielding is typically 90 dB versus 40 dB typical for single shielded cables, making it ideal for reducing interference in multi-radio environments. Typical attenuation is 0.7 dB/100 feet (~30 meters) at 30 MHz and 2.7 dB/100 feet (~30 meters) 450 MHz.

Specify cable length by replacing ‘AXXX’ above:
A010  10 ft. (~3 m)   A100  100 ft. (~30 m)
A025  25 ft. (~7.6 m) A150  150 ft. (~46 m)
A030  30 ft. (~9 m)   A200  200 ft. (~60 m)
A050  50 ft. (~15 m) A250  250 ft. (~76 m)
A085  85 ft. (~26 m)

COAXIAL CABLE, LOW LOSS, BNC TO BNC

10513-0812-AXXX

Low-loss preassembled coaxial cable, with type BNC male connectors, especially designed for antenna runs in an outdoor environment. The cable is designed for 20-year outdoor use, incorporating a UV resistant jacket and waterproofing compound inside the jacket. The shielding is typically 90 dB versus 40 dB typical for single shielded cables, making it ideal for reducing interference in multi-radio environments. Typical attenuation is 0.7 dB/100 feet (~30 meters) at 30 MHz and 2.7 dB/100 feet (~30 meters) 450 MHz.

Specify cable length by replacing ‘AXXX’ above:
A010  10 ft. (~3 m)   A100  100 ft. (~30 m)
A025  25 ft. (~7.6 m) A150  150 ft. (~46 m)
A030  30 ft. (~9 m)   A200  200 ft. (~60 m)
A050  50 ft. (~15 m) A250  250 ft. (~76 m)
A085  85 ft. (~26 m)

COAXIAL CABLE, RG-213, TYPE N TO N

10181-9824-XXX

M17/74-RG213 cable with type N male connectors. Commonly used to interconnect RF-5832H-PA101, RF-5834H-PA001, or RF-5835H-PA001 HF Power Amplifiers to the RF-382A-15 or RF-5832H-CU001 antenna couplers, but can be used in other applications. Maximum recommended length is 250 feet (~76 meters).

Specify cable length by replacing ‘XXX’ above:
002  2 ft. (~0.6 m)  030  30 ft. (~9 m)
004  4 ft. (~1.2 m)  040  40 ft. (~12 m)
005  5 ft. (~1.5 m)  050  50 ft. (~15 m)
006  6 ft. (~1.8 m)  070  70 ft. (~20 m)
008  8 ft. (~2.4 m)  075  75 ft. (~23 m)
010  10 ft. (~3 m)   080  80 ft. (~24 m)
012  12 ft. (~3.7 m) 100  100 ft. (~30 m)
013  13 ft. (~4 m)   120  120 ft. (~37 m)
015  15 ft. (~4.6 m) 150  150 ft. (~46 m)
016  16 ft. (~4.9 m) 165  165 ft. (~50 m)
020  20 ft. (~6 m)   200  200 ft. (~60 m)
025  25 ft. (~7.6 m) 250  250 ft. (~76 m)
COLLOCATION AND FILTERING

DIGITAL PRE/POSTSELECTOR OPTION FOR THE RF-5833H 150-WATT POWER AMPLIFIER

RF-5245

The RF-5245 is an internal, compact solution to collocation filtering for RF-5833H 150-watt HF/VHF radio systems. Used in high interference or collocated environments, the pre/postselector provides superior radio system performance. Built-in test of this option is provided by the comprehensive BITE of the standard RF-5800H radio system.

Features

- 1.6-30 MHz frequency range
- 25 dB of attenuation of unwanted signals at frequencies 10% or greater from the carrier
- Fully automatic tuning and switching with no operator control required
- Ruggedized for reliable operation in extreme environments
- Rapid tune time of 20 ms or less
- Fully protected against signals up to 300 VRMS
- Embedded in the RF-5833H-PA002 150-Watt Power Amplifier

The RF-5245 includes:

<table>
<thead>
<tr>
<th>Product Number</th>
<th>Product Name</th>
<th>Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>10497-1800-01</td>
<td>Digital Pre/Postselector Module</td>
<td>1</td>
</tr>
<tr>
<td>10497-1802-01</td>
<td>Support Block</td>
<td>1</td>
</tr>
<tr>
<td>10497-1131-01</td>
<td>Cable Assembly, BNC to SMB</td>
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<tr>
<td>10497-1132-03</td>
<td>Cable Assembly, SMB to SMB</td>
<td>1</td>
</tr>
</tbody>
</table>

200-WATT LOW PASS FILTER KIT FOR THE RF-5832H 125-WATT POWER AMPLIFIER

10497-0340-01

The 10497-0340-01 low-pass filter kit is used to reduce transmitter and receiver signals from 25 MHz and above. Its ultimate stop band is greater than -60 dB from 25 to 90 MHz.

Finish/Color: CARC Green 383.

The kit contains all items necessary to mount to the low-pass filter to a flat surface:

<table>
<thead>
<tr>
<th>Product Number</th>
<th>Product Name</th>
<th>Qty</th>
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</thead>
<tbody>
<tr>
<td>10497-0350-01</td>
<td>Low-Pass Filter, 200 watts</td>
<td>1</td>
</tr>
<tr>
<td>10497-0358-01</td>
<td>Ground Strap</td>
<td>1</td>
</tr>
<tr>
<td>10497-0356-01</td>
<td>Mounting Plate</td>
<td>1</td>
</tr>
</tbody>
</table>

200-WATT LOW PASS FILTER KIT FOR THE RF-5833H 150-WATT POWER AMPLIFIER

10497-0360-02

The 10497-0360-02 low-pass filter kit is used to reduce transmitter and receiver signals from 25 MHz and above. Its ultimate stop band is greater than -60 dB from 25 to 90 MHz. The 10497-0360-02 is included in the RF-5800H-V002 Vehicular Adapter, RF-5800H-B002 Base Station Adapter, and the RF-5800H-TM002 Transit Case Adapter.

Finish/Color: CARC Green 383

The unit contains all items necessary to attach to the RF-5833H-PA:

<table>
<thead>
<tr>
<th>Product Number</th>
<th>Product Name</th>
<th>Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>10497-0350-01</td>
<td>Low-Pass Filter, 200 watts</td>
<td>1</td>
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<tr>
<td>10497-0357-01</td>
<td>Ground Strap</td>
<td>1</td>
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<tr>
<td>10497-0363-01</td>
<td>Coax Cable, N to N</td>
<td>1</td>
</tr>
</tbody>
</table>
500-WATT LOW PASS FILTER KIT FOR THE RF-5834H 400-WATT POWER AMPLIFIER AND THE RF-5800H-V003 400-WATT VEHICULAR ADAPTER

10286-0900-01

The 10286-0900-01 low-pass filter kit is used to reduce transmitter and receiver signals from 25 MHz and above. Its ultimate stop band is greater than -60 dB from 25 to 90 MHz.

Finish/Color: CARC Green 383.

The kit contains all items necessary to mount to the low-pass filter in the RF-5800H-V003 Vehicular Adapter:

<table>
<thead>
<tr>
<th>Product Number</th>
<th>Product Name</th>
<th>Qty</th>
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</thead>
<tbody>
<tr>
<td>10564-1720-05</td>
<td>Low Pass Filter, 500 watts</td>
<td>1</td>
</tr>
<tr>
<td>10181-9825-002</td>
<td>Coax Cable, N to N</td>
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</tr>
<tr>
<td>10400-1136-A30</td>
<td>Ground Strap</td>
<td>1</td>
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<tr>
<td>10286-1162-01</td>
<td>Bracket</td>
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</tbody>
</table>

500-WATT LOW PASS FILTER KIT FOR THE RF-5834H 400-WATT POWER AMPLIFIER AND THE RF-5800H-B003 400-WATT BASE STATION ADAPTER

10286-0900-02

The 10286-0900-02 low-pass filter kit is used to reduce transmitter and receiver signals from 25 MHz and above. Its ultimate stop band is greater than -60 dB from 25 to 90 MHz.

Finish/Color: CARC Green 383.

The kit contains all items necessary to mount to the low-pass filter in the RF-5800H-B003 Base Station Adapter:

<table>
<thead>
<tr>
<th>Product Number</th>
<th>Product Name</th>
<th>Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>10564-1720-05</td>
<td>Low Pass Filter, 500 watts</td>
<td>1</td>
</tr>
<tr>
<td>10181-9825-001</td>
<td>Coax Cable, N to N</td>
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</tr>
<tr>
<td>10400-1136-A09</td>
<td>Ground Strap</td>
<td>1</td>
</tr>
</tbody>
</table>

DIGITAL PRE/POTSELECTOR

RF-5845H-PP101

The Pre/postselector provides significant attenuation of both unwanted receive signals and spurious transmitter outputs for 125-watt and 400-watt systems. The RF-5845H-PP101 is utilized with the RF-5800H-MP.

Used in high-interference or collocated environments, the Pre/postselector provides greater than 40 dB attenuation of unwanted signals at frequencies 10% removed from the carrier frequency. Built-in test (BIT) and all operational controls are from the transceiver front panel.

**Features**

- 1.6 to 30 MHz frequency range
- Fully automatic tuning and switching with no operator controls required
- Ruggedized for reliable operation in extreme environments; MIL-STD-810D compliant
- Rapid tune time of less than 20 msec
- Fully protected against signals up to 300 volts RMS

Unit price includes manual and all interconnecting cables. Use the RF-5072VSM-03 for wheeled vehicular applications, RF-5075VM for tracked vehicular applications, or the 10299-0580 Base Station Extension when stationary.

Finish/Color: CARC Green 38
SITING KITS

DIPOLE ANTENNA 20-METER REMOTE SITING KIT FOR THE RF-5382H ANTENNA COUPLER
RF-5351-AT001
The RF-5351-AT001 is a complete kit designed to allow a vehicle-based RF-5382H Antenna Coupler to disconnect from the vehicle and be remotely located up to 20 meters (approximately 66 feet) away. The mounting plate provides the ability to connect to the strain relief on a dipole antenna. It provides the mounting plate, extender cables on winders, ground rod, anchor stakes, and a carrying bag for the loose parts. It does not include the vehicular shock mount assembly (RF-5384VM-01 recommended).
Finish/Color: CARC Green 383

DIPOLE ANTENNA 50-METER REMOTE SITING KIT FOR THE RF-5382H ANTENNA COUPLER
RF-5351-AT002
The RF-5351-AT002 is a complete kit designed to allow a vehicle-based RF-5382H Antenna Coupler to disconnect from the vehicle and be remotely located up to 50 meters (approximately 164 feet) away. The mounting plate provides the ability to connect to the strain relief on a dipole antenna. It provides the mounting plate, extender cables on a reel, ground rod, anchor stakes, and a carrying bag for the loose parts. It does not include the vehicular shock mount assembly (RF-5384VM-01 recommended).
Finish/Color: CARC Green 383

WHIP AND DIPOLE ANTENNA 20-METER REMOTE SITING KIT FOR THE RF-5382H ANTENNA COUPLER
RF-5351-AT003
The RF-5351-AT003 is a complete kit designed to allow a vehicle-based RF-5382H Antenna Coupler to disconnect from the vehicle and be remotely located up to 20 meters (approximately 66 feet) away. The mounting plate provides a whip antenna base as well as the ability to connect to the strain relief on a dipole antenna. A 32-foot (approximately 10-meter) whip antenna is included in the kit. The kit includes the mounting plate with hinged antenna base for SB-V series whip antenna, extender cables on a reel, ground rod, radials, guys and stakes, anchor stakes, and a carrying bag for the whip antenna and loose parts. It does not include the vehicular shock mount assembly (RF-5384VM-01 recommended).
Finish/Color: CARC Green 383

WHIP AND DIPOLE ANTENNA 50-METER REMOTE SITING KIT FOR THE RF-5382H ANTENNA COUPLER
RF-5351-AT004
The RF-5351-AT004 is a complete kit designed to allow a vehicle-based RF-5382H Antenna Coupler to disconnect from the vehicle and be remotely located up to 50 meters (approximately 164 feet) away. The mounting plate provides a whip antenna base as well as the ability to connect to the strain relief on a dipole antenna. A 32-foot (approximately 10-meter) whip antenna is included in the kit. The kit includes the mounting plate with hinged antenna base for SB-V series whip antenna, extender cables on a reel, ground rod, radials, guys and stakes, anchor stakes, and a carrying bag for the whip antenna and loose parts. It does not include the vehicular shock mount assembly (RF-5384VM-01 recommended).
Finish/Color: CARC Green 383

WHIP AND DIPOLE ANTENNA SITING KIT FOR THE RF-5382H AND RF-382A ANTENNA COUPLERS
RF-5351-AT005
The RF-5351-AT005 is a siting kit designed for temporary installations of dipole or whips systems utilizing the RF-5382H or RF-382A antenna couplers. The mounting plate provides a whip antenna base as well as the ability to connect to the strain relief on a dipole antenna. The kit includes the mounting plate, ground rod, radials, guys and stakes, anchor stakes, and a carrying bag for the loose parts. It does not include extender cable assemblies.
Finish/Color: CARC Green 383
## RF-5351 SITING KIT MODELS

<table>
<thead>
<tr>
<th>Part RF-5351</th>
<th>AT001</th>
<th>AT002</th>
<th>AT003</th>
<th>AT004</th>
<th>AT005</th>
<th>AT006</th>
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<th>AT012</th>
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<tr>
<td>Antenna Coupler</td>
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<td>RF-5382H</td>
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<td>RF-5382H</td>
<td>RF-5382H</td>
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<td>RF-382A</td>
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<td>Whip Antenna Base</td>
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<td>32-foot (~9.8-meter) Whip Antenna</td>
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<td>Whip Antenna Guy Assemblies</td>
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<td>Bag for Accessories</td>
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<td>Bag for Whip and Accessories</td>
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</tbody>
</table>
MOUNTING SYSTEMS

MOUNTING SYSTEMS R/T SHOCK MOUNT

RF-5211VSM
The RF-5211VSM is a short profile vehicular mount for the RF-5800H-MP manpack that is used specifically for vehicles with space constraints. The RF-5800H-MP is mounted directly to the shock mount without the battery case. Power is supplied to the transceiver via a Power Amplifier Control Cable connected between the RF-5800H-MP and the external power amplifier. The transceiver can be removed from this mount and connected to a battery case with batteries for "Jerk-and-Run" operation.

Finish/Color: Black

SECURITY LOCKING KIT FOR THE RF-5211VSM
10372-0874-01
The 10372-0874-01 attaches to the RF-5211VSM shock mount to prevent unauthorized removal of the radio transceiver from the shock mount. The 10372-0874-01 requires the use of a padlock, which is not included.

ADJUSTABLE SHOCK MOUNT FOR THE RF-5800H-MP WITH BATTERIES OR BATTERY ELIMINATOR

RF-5870-VM001
The RF-5870-VM001 is an adjustable shock mount that mounts the RF-5800H Manpack Transceiver for use on mobile systems when the use of the full Vehicular Adapter Kit is not required. It is adjustable to mount the manpack when used with the battery pack, RF-5850-PS001 Power Supply, or RF-5851-AD001 DC Adapter.

Finish/Color: Black

SECURITY LOCKING KIT FOR THE RF-5870-VM001
RF-5870-VM002
The RF-5870-VM002 Security Lock attaches to the RF-5870-VM001 Shock Mount to prevent unauthorized removal of the radio transceiver from the shock mount. The RF-5870-VM002 requires the use of a padlock, which is not included.

SINGLE SHOCK MOUNT FOR RF-5832H 125-WATT POWER AMPLIFIER OR RF-5051-PS001 POWER SUPPLY

RF-5071VSM-03
The RF-5071VSM-03 is a single shock mount for the RF-5832H-PA or the RF-5051-PS001 to provide isolation from high-impact shock and vibration in vehicular installations.

Finish/Color: Black
**Mounting Systems**

**DUAL SHOCK MOUNT FOR TWO RF-5832H POWER AMPLIFIERS, TWO RF-5051-PS001 POWER SUPPLIES, OR RF-5845H PRE/POSTSELECTORS**

**RF-5072VSM-03**
The RF-5072VSM-03 is a dual shock mount for two RF-5832H-PA or two RF-5051PS-125s. The RF-5072VSM may also be used to mount one RF-5845H-PP Digital Pre/Postselector. The unit provides isolation from high-impact shock and vibration in vehicular installations.

Finish/Color: Black

**SYSTEM SHOCK MOUNT FOR RF-5833H 150-WATT POWER AMPLIFIER**

**RF-5073VSM**
System shock mount for RF-5833H-PA.

Finish/Color: CARC Green 383

**SECURITY LOCKING KIT FOR THE 150-WATT SYSTEM**

10497-0870-01
The 10497-0870-01 is a locking kit containing locking mechanisms for securing the RF-5800H to the RF-5833H-PA Power Amplifier and a mechanism to lock the RF-5833H-PA to the RF-5073VSM shock mount. It prevents unauthorized removal of the radio transceiver from the shock mount. Requires the use of two padlocks, which are not included.

Finish/Color: Black

**SINGLE SHOCK MOUNT FOR RF-5834H-PA 400-WATT POWER AMPLIFIER**

**RF-5074VSM-03**
The single shock mount provides isolation from high-impact shock and vibration in vehicular installations.

Finish/Color: Black

**SHOCK MOUNT FOR RF-5382H ANTENNA COUPLER**

**RF-5384VM-01**
This quick-release shock mount for the RF-5382H Antenna Coupler is designed to provide isolation from the high-impact shock and vibration encountered in wheeled and tracked vehicles. The shock mount incorporates a quick release feature that allows rapid relocation of the RF-5382H between the vehicle and the RF-5351 series of siting kits.

Finish/Color: Black
SHOCK MOUNT FOR RF-382A-15 ANTENNA COUPLER  
FOR TRACKED VEHICLES

RF-383VM-01
This quick release shock mount for the RF-382A-15 Antenna Coupler is designed to provide isolation from the shock and vibration of tracked vehicles such as MB Tanks, APCs, and SPGs. The shock mount incorporates a quick release feature that allows rapid interchangeability between the vehicle and the RF-5351 series of siting kits. Must be mounted horizontally.

Finish/Color: CARC Green 383

SHOCK MOUNT FOR RF-382A-15 ANTENNA COUPLER  
FOR WHEELED VEHICLES

RF-384VM-03
This quick release shock mount for the RF-382A-15 Antenna Coupler is designed to provide isolation from the high-impact shock and vibration encountered in wheeled vehicles such as military Humvees. The shock mount incorporates a quick release feature that allows rapid relocation of the RF-382 between the vehicle and the RF-5351 series of siting kits.

Finish/Color: CARC Green 383
AC/DC POWER SUPPLY

RF-5051-PS001 (Green), RF-5051-PS005 (Tan)
RF-5054-PS001 (Green), RF-5054-PS005 (Tan)

The RF-5051-PS001 is a high performance, regulated, switching power supply that provides +28 VDC at up to 30 amps. It is intended for use with the Falcon II/Falcon III series systems in base station, shipboard or transportable configurations. The unit features advanced output capabilities and will automatically recover from many error conditions once the fault has been corrected. Two RF-5051-PS001 units may be connected in parallel as an RF-5054-PS001, using a DC/DC Jumper cable assembly, to provide power for 400-watt Falcon series systems. The RF-5054-PS001 provides +28 volt DC at up to 60 amps.

Finish/Color: Powder Coat Green 383

Features
» High Reliability
» Configurations for 50, 125 and 400-watt systems
» Ruggedized packaging
» Automatic self fault recovery

ANCILLARY KIT, AC/DC POWER SUPPLY
12045-4005-01

The 12045-4005-01 Ancillary Kit is for use with the RF-5051-PS001 and RF-5054-PS001 AC/DC power supplies and includes:

<table>
<thead>
<tr>
<th>Product Number</th>
<th>Product Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>10181-9831-009</td>
<td>AC Power Cable, US NEMA 5-15P supplied as standard</td>
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<tr>
<td>12045-4006-A12</td>
<td>AC Ground Cable Assembly</td>
</tr>
<tr>
<td>10515-0153-4100</td>
<td>Operator Card</td>
</tr>
</tbody>
</table>

AC/DC POWER SUPPLY

RF-5055PS

The RF-5055PS AC/DC power supply provides a regulated 26.4 volts DC at 18 amps in a low-profile package for use with the RF-5833HPA 150-watt power amplifiers in tactical installations with duty cycles up to 20%. When used with the RF-5056PS DC/DC converter, the RF-5055 is designed to supply power to the auxiliary input of the RF-5056PS to conserve vehicular battery life when AC power is available. A 9-foot (~3-meter) AC power cable is included. The RF-5055PS may be mounted on the RF-5071VSM-03 Shock Mount for use in the most severe environments. The unit price includes a 9-foot (~3-meter) AC power cable.

Finish/Color: Green 383

Features
» Input automatically accepts 115 or 230 VAC, 47 to 63 Hz input
» Compact size
» Ruggedized construction; MIL-STD-810F
» Submersible
» 16 amp continuous output at 25 degrees Celsius ambient (77 degrees Fahrenheit)
» 12 amp continuous output at 70 degrees Celsius ambient (158 degrees Fahrenheit)

A U.S. power connector (NEMA 5-15P) is supplied as the standard AC power connector. European connector (CEE 7) and UK/Ireland connector (BS 1363) are available at no additional charge if specified at time of order.

AC AND DC CABLES FOR THE POWER SUPPLY

<table>
<thead>
<tr>
<th>Product Number</th>
<th>Product Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>10181-9814-009</td>
<td>AC Power Cable, 9 feet (~2.7 m)</td>
</tr>
<tr>
<td>10181-9809-009</td>
<td>EU (CEE 7)</td>
</tr>
<tr>
<td>10181-9831-XXX</td>
<td>AC Input Power Cable Assembly</td>
</tr>
<tr>
<td>10181-9836-XXX*</td>
<td>DC/DC Jumper Cable</td>
</tr>
<tr>
<td>10181-9834-XXX^</td>
<td>DC Power Cable</td>
</tr>
</tbody>
</table>

*10181-9836 should be used for RF-5054-PS001 Configurations
^10181-9834 should be used for RF-5051-PS001 Configurations
RF-5850-PS001
The RF-5850-PS001 Power Supply may be used in place of a wide body Falcon II battery box to provide operation of the manpack transceiver from 85 to 270 VAC, 47 to 440 Hz, or 9 to 36 VDC. The power supply contains a battery to permit radio operation for short time (less than one hour) periods without external prime power. The battery is recharged when external prime power is reapplied. For use with RF-5800H, RF-5800M, AN/PRC-117F(C), AN/PRC-150(C) and RF-6010 manpack transceivers. The resulting system may be mounted for mobile operation using the RF-5870-VM001 shock mount and optional RF-5870-VM002 security lock.

Color: Green 383

The RF-5850-PS001 includes:

<table>
<thead>
<tr>
<th>Product Number</th>
<th>Product Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>10513-5850-01</td>
<td>Power Supply</td>
</tr>
<tr>
<td>10513-0515-A1</td>
<td>6-foot (~2-meter) AC power cable</td>
</tr>
<tr>
<td>10513-0516-A1</td>
<td>6-foot (~2-meter) DC power cable with alligator clips</td>
</tr>
<tr>
<td>Z52-0003-006</td>
<td>Universal AC plug adapter</td>
</tr>
<tr>
<td>10515-0304-4100</td>
<td>Instruction manual</td>
</tr>
</tbody>
</table>

RF-5851-AD001
The RF-5851-AD001 Adapter provides DC voltage limiting and filtering to permit operation of several models of Falcon II radio transceivers directly from 22 to 32 VDC vehicle power when use of the full vehicular adapter kit is not required. It is designed to meet MIL-STD-1275 for vehicular power. The Adapter mounts directly to the rear of the transceiver in place of the standard battery box and can be used with the RF-5800H, RF-5800M, AN/PRC-117F(C), AN/PRC-150(C) and RF-6010 manpack transceivers. The resulting radio system may be used with the RF-5870-VM001 shock mount and optional RF-5870-VM002 security lock to provide vehicular mounting. Order power cable, 12027-0205-A020 (20 feet; ~6 meters), separately.

Finish/Color: Green 383
RF-5910-PS003
The RF-5910-PS003 Power Supply may be used in place of a wide body Falcon II battery box to provide operation of the manpack transceiver from 95 to 270 VAC at 47 to 440 Hz or 11 to 36 VDC. The power supply contains a Li Ion battery (BB-2590) to permit short term operation (nominal capacity, 6.2 amp. hours) of the radio without external power. The battery is recharged when the external power is applied. The RF-5910-PS003 is for use with the RF-5800H, RF-5800M, AN/PRC-117F(C), AN/PRC-150(C) and RF-6010 transceivers. The resulting system may be mounted on a RF-5870-VM001 shock mount for mobile operation.

Color: Green 383

The unit includes:

<table>
<thead>
<tr>
<th>Product Number</th>
<th>Product Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>10513-0600-01</td>
<td>Power Supply w/Lithium Ion Battery</td>
</tr>
<tr>
<td>10513-0604-A1</td>
<td>6-foot (~2-meter) DC power cable with alligator clips</td>
</tr>
<tr>
<td>10513-0604-A1</td>
<td>6-foot (~2-meter) AC power cable with US NEMA 5-15P plug</td>
</tr>
<tr>
<td>Z52-0003-006</td>
<td>Universal AC plug adapter</td>
</tr>
<tr>
<td>10515-0301-4100</td>
<td>Instruction manual</td>
</tr>
</tbody>
</table>

DC/DC POWER SUPPLY

12/24 VOLT DC/DC CONVERTER

RF-5056PS
The RF-5056PS DC/DC converter provides a regulated 26.5 volts at 20 amps peak when supplied with 12, 24, or 28 volts from a vehicle DC system. It permits operation of the RF-5833H-PA 150-watt power amplifiers in tactical installations with duty cycles up to 20%. This DC/DC converter will also accept an auxiliary input from the RF-5055PS AC/DC power supply. While power is present at the auxiliary input, the DC/DC converter shuts its regulator down to conserve vehicular battery life. The DC/DC converter’s low-profile design allows mounting under the RF-5032PA-125E or RF-5832H-PA001 Power Amplifiers and RF-5056PS and sharing the same shock tray. The RF-5056PS may be mounted on the RF-5071VSM-03 Shock Mount for use in the most severe environments. No mating cables or connectors are included. A 15-foot (~4.6-meter) DC power cable assembly, 10373-0030, is included. Finish/Color: Green 383

Features

» Output capable of sustained voice and multi-tone data operation and intermittent FSK for 150-watt HF systems and continuous duty for 10 or 50 watt VHF systems

» Input automatically accepts DC input from 12, 24, 28 VDC systems

» Compact size

» Ruggedized construction; MIL-STD-810E

» Submersible

» 16 amp output
DC/DC CONVERTER

RF-5061-PS001
The RF-5061-PS001 is a 12 VDC to 28 VDC DC/DC converter intended for use in 12 VDC vehicles. The RF-5061-PS001 is capable of providing 30 amps at 28 VDC, making it compatible with the Falcon II family of products. The RF-5061-PS001 is qualified for tactical environments and does not require shock tray mounting. The unit includes an ancillary kit and 11081-5009-01 DC input cable. A DC output cable must be ordered separately.

Color: Black

Features

- 30 amp output
- Ruggedized construction for tactical environments
- Compact size
- Immersion tolerant

The ancillary kit includes:

<table>
<thead>
<tr>
<th>Product Number</th>
<th>Product Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>7147-1167-3</td>
<td>Ground strap</td>
</tr>
<tr>
<td>Miscellaneous</td>
<td>Mounting Hardware</td>
</tr>
<tr>
<td>10515-0288-4100</td>
<td>Instruction Manual</td>
</tr>
</tbody>
</table>
REMOTE CONTROLS

SHORT-DISTANCE REMOTE KIT

12027-0050-075

This kit provides remote control of the RF-5800H-MP, RF-5800M-MP, RF-5800V-MP, AN/PRC-117(C) and AN/PRC-150(C) families of manpack radios and of the vehicular and base station systems using these manpacks as Receivers-Transmitters (RTs). The Remote Kit is capable of operating to a distance of 75 feet (~23 meters) from the RT. It provides control of all radio functions that can be controlled by the radio Keyboard/Display Unit (KDU) as well as providing key line and audio interconnect, and audio level control. Note that selection of clear text, cipher text, zeroizes, and other functions related to encryption must be selected from the RT front panel and cannot be remotely controlled. There is no encryption at the remote kit and all audio and/or data to and from the kit is RED audio.

The KDU provided with the radio may be unplugged and remoted by the cable provided in the kit. A separate KDU is not provided. Standard handsets, microphones, or headsets using standard U-329/U connectors may be connected to one of the two six-pin audio connectors on the remote amplifier speaker. The remote speaker may be used or its volume may be turned down and the handset used.

The kit requires 24 VDC to operate. The power cable supplied includes a standard military four-pin power connector on the power end which may be connected to a vehicle power bus, RF-5051 power supply, or similar source of DC power, or may be cut off to provide pigtail leads to the power source. See separate description of the 10181-5180-01 Amplifier Speaker.

Options

<table>
<thead>
<tr>
<th>Product Number</th>
<th>Product Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>10181-5180-01</td>
<td>Amplifier Speaker</td>
</tr>
<tr>
<td>10511-0704-150</td>
<td>Cable, KDU Extension</td>
</tr>
<tr>
<td>10535-0706-A075</td>
<td>Cable, Speaker Power</td>
</tr>
<tr>
<td>10535-0707-A075</td>
<td>Speaker Cable, Audio</td>
</tr>
</tbody>
</table>

SYSTEMS AND UNITS

UNIVERSAL REMOTE CONTROL SYSTEM

RF-7800R-RC

The RF-7800R-RC Remote Control provides full remote control capability for the AN/PRC-117F(C) and AN/PRC-150(C) Falcon II radios, plus Falcon III capabilities to support the AN/PRC-117G and AN/PRC-152 radios. The package includes two remote control units whose modular design allow either unit to function as the Local Control Unit (LCU) or the Remote Control Unit (RCU). All radio functions controlled by the Keypad Display Unit (KDU) can be controlled by the RF-7800R, including Automatic Link Establishment (ALE), frequency hopping and modem selections. The system provides TX/RX, data and control legacy functions using field wire, but also adds fiber optic and Ethernet capabilities. An external media converter is required for fiber and is not included.

The RF-7800R includes:

<table>
<thead>
<tr>
<th>Product Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 Remote Control Units (same on both ends)</td>
</tr>
<tr>
<td>2 Battery Boxes</td>
</tr>
<tr>
<td>1 H-250 Handset</td>
</tr>
<tr>
<td>Radio specific cables</td>
</tr>
<tr>
<td>Operator Card</td>
</tr>
</tbody>
</table>

Ordering Options:

<table>
<thead>
<tr>
<th>Product Number</th>
<th>Product Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>RF-7800R-RC001</td>
<td>Falcon II Manpack (includes cable)</td>
</tr>
<tr>
<td>RF-7800R-RC002</td>
<td>AN/PRC-152 (includes cable and KDU)</td>
</tr>
<tr>
<td>RF-7800R-RC003</td>
<td>AN/PRC-117G (includes cable and KDU)</td>
</tr>
</tbody>
</table>

Height: 3.2 in. (8.1 cm)
Depth: 8.9 in. (22.6 cm)
Width: 7.8 in. (19.8 cm)
Weight: ~ 3.5 pounds (1.6 kg), Remote Control without KDU
**LOCAL CONTROL UNIT**

RF-7800R-RC502
The RF-7800R-RC502 Local Remote Unit (LCU) is included with the RF-7800R series of remote control systems. The LCU is placed on the radio in place of the Keypad/Display Unit (KDU) and is powered from the radio.

Finish: CARC Green 383.

**REMOTE CONTROL SYSTEM WITH HIGH-SPEED INTERFACE (HSI)**

RF-7800R
The RF-7800R-RC511 Remote Control System with high-speed interface provides full remote control capability for the Falcon II family of manpack radios. It provides remote transmit and receives audio, data, and control, up to a distance of 3.5 km (~2.2 miles) using standard field wire or RS-449 digital interface. Radios supported are RF-5800H-MP, RF-5800V-MP, and RF-5800M-MP.

The RF-7800R-RC511 consists of a Remote Control Unit (RCU) and a Local Control Unit (LCU) and two High-Speed Interfaces. The LCU is placed on the radio in place of the KDU and is powered from the radio. The HSI is connected to the LCU with the data cable provided. The KDU from the radio is placed on the Remote Control Unit (RCU), which is powered from a single manpack battery or battery eliminator. The second HSI is then connected to the RCU with the data cable provided. The HSI is intended to interface to a COTS transmission medium (F/O or modem) via a simplified RS-422/V.36 protocol on a RS-449 37-pin D connector.


The RF-7800R includes:

<table>
<thead>
<tr>
<th>Product Number</th>
<th>Product Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>12028-3000-01</td>
<td>High-speed interface kit</td>
</tr>
<tr>
<td>10075-1399</td>
<td>Lightweight Handset - H-250 (Modified)</td>
</tr>
<tr>
<td>12028-0700-A18</td>
<td>Interconnecting Cable from the LCU to the radio</td>
</tr>
<tr>
<td>10515-0305-4200</td>
<td>Operation Manual</td>
</tr>
<tr>
<td>10515-0296-4100</td>
<td>Operator Card, RCU</td>
</tr>
<tr>
<td>10515-0296-4101</td>
<td>Operator Card, LCU</td>
</tr>
<tr>
<td>12028-0026-01</td>
<td>Carrying Bag</td>
</tr>
</tbody>
</table>
ACCESSORIES

KDU GIMBALED MOUNT

RF-5940-MT001
The RF-5940-MT001 KDU Gimbaled Mount is used for remote mounting of the Keypad Display Unit (KDU) from the Falcon II Manpack radios. The mount can be used in vehicles or on a desktop and can be easily repositioned by loosening a thumbscrew, reorienting the KDU, and retightening the thumbscrew. The KDU is easily unlatched from the radio and latched to the Gimbaled Mount for installation. It is just as easily reattached to the radio for “jerk-and-run” operation. The Gimbaled Mount can be used with the 10511-0704-012 six-foot (approximately 1.8 meter) KDU Extension Cable. It can also be used with the 75-foot (approximately 23 meter) 12027-0050-075 short distance remoting kit, which includes cables and a remote amplifier speaker with handset connections and volume control, to form a complete remote control position. Three 10 x 32 x 0.75 inch (approximately 25 x 81 x 2-centimeter) hex mounting bolts, with washers and locking nuts, and five black cable ties are included to facilitate installation. KDU and cables not included.

Color: Black
BATTERY OVERVIEW

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Nominal Capacity (Ah)</td>
<td>11.1</td>
<td>7.5</td>
<td>4.9</td>
<td>2.2</td>
<td>6.2</td>
<td>4.7</td>
</tr>
<tr>
<td>Chemistry</td>
<td>Li-MNO2</td>
<td>Lithium</td>
<td>NiMH</td>
<td>NiCd</td>
<td>Li ion</td>
<td>Li ion</td>
</tr>
<tr>
<td>Type</td>
<td>Disposable</td>
<td>Disposable</td>
<td>Rechargeable</td>
<td>Rechargeable</td>
<td>Rechargeable</td>
<td>Rechargeable</td>
</tr>
<tr>
<td>Weight pounds (kg)</td>
<td>2.3 (1)</td>
<td>2.3 (1)</td>
<td>3.8 (1.8)</td>
<td>3.4 (1.5)</td>
<td>3.1 (1.4)</td>
<td>0.9 (0.4)</td>
</tr>
<tr>
<td>Size</td>
<td>Manpack</td>
<td>Manpack</td>
<td>Manpack</td>
<td>Manpack</td>
<td>Manpack</td>
<td>Handheld</td>
</tr>
</tbody>
</table>

BATTERIES AND BATTERY Charger COMPATIBILITY

<table>
<thead>
<tr>
<th></th>
<th>BB-390B/U</th>
<th>BB-590/U</th>
<th>BB-2590/U</th>
<th>12041-2100</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ruggedized Charger</td>
<td>•</td>
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<td>•</td>
<td></td>
</tr>
<tr>
<td>RF-5058-CH002</td>
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<td>•</td>
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<tr>
<td>RF-5058-CH006</td>
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<td>•</td>
<td></td>
</tr>
<tr>
<td>Tactical Charger</td>
<td>•</td>
<td>•</td>
<td>•</td>
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</tr>
<tr>
<td>RF-5902-CH008</td>
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<tr>
<td>Solar Charger</td>
<td>•</td>
<td>•</td>
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<td></td>
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<tr>
<td>RF-5900-CH001</td>
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<tr>
<td>RF-5903-CH001</td>
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<tr>
<td>RF-5904-CH001</td>
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<td></td>
</tr>
<tr>
<td>Vehicular</td>
<td>•</td>
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<td></td>
</tr>
<tr>
<td>RF-5852-CH001</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td></td>
</tr>
<tr>
<td>Hand Crank</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td></td>
</tr>
<tr>
<td>RF-5901-CH001</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td></td>
</tr>
</tbody>
</table>

Note: BA-5390/U and BA-5590/U batteries are primary cells.
NOTE: The following diagrams are for comparison purposes only. They show typical transmit range capabilities for each antenna assuming that appropriate power levels and transmit frequencies are selected.

### TYPICAL HF MANPACK ANTENNA RANGES

<table>
<thead>
<tr>
<th>Groundwave</th>
<th>Skywave</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>0-80 km</td>
<td>NVIS 0-500 km</td>
<td>Med. Range 500-2000 km</td>
</tr>
<tr>
<td>10372-0245-01 &quot;OE-505&quot;</td>
<td>10372-0240-02</td>
<td>RF-1940 Dipole</td>
<td></td>
</tr>
<tr>
<td>RF-1940/41 in &quot;L&quot; configuration</td>
<td>RF-1940/41 in sloping configuration</td>
<td>RF-1944 (no coupler needed)</td>
<td></td>
</tr>
</tbody>
</table>

### TYPICAL HF VEHICULAR ANTENNA RANGES

<table>
<thead>
<tr>
<th>Groundwave</th>
<th>Skywave</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>0-80 km</td>
<td>NVIS 0-500 km</td>
<td>Med. Range 500-2000 km</td>
</tr>
<tr>
<td>SB-V16F</td>
<td>SB-V35F</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SB-V35F</td>
<td>SB-V35F</td>
<td>SB-V16/35 tilted with tilt whip adapter on RF-1980-AT003 spring base</td>
<td>RF-1936V-10, RF-1938AT-10</td>
</tr>
<tr>
<td></td>
<td>RF-1942-AT001 Antenna Kit</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### TYPICAL HF TRANSPORTABLE ANTENNA RANGES

<table>
<thead>
<tr>
<th>Groundwave</th>
<th>Skywave</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>0-80 km</td>
<td>NVIS 0-500 km</td>
<td>Med. Range 500-2000 km</td>
</tr>
<tr>
<td>RF-1937</td>
<td>RF-1937</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SB-V16 (B/C)</td>
<td>SB-V35F</td>
<td>SB-V16/35 tilted with tilt whip</td>
<td></td>
</tr>
<tr>
<td>SB-V35 (B/C)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>RF-1936/38 with Monopole Conversion Kit</td>
<td>RF-1912 in Dipole configuration</td>
<td>RF-1912 in Monopole configuration</td>
<td></td>
</tr>
<tr>
<td>RF-1950-AT001</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>RF-1912 in Monopole configuration</td>
<td>Special Order LPA Antennas</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
HF MANPACK ANTENNAS

OE-505 MANPACK HF/VHF WHIP ANTENNA KIT

10372-0245-01

This antenna kit is a standard lightweight, collapsible whip antenna kit for the RF-5800H-MP radio. The 10372-0245-01 is capable of 20-watt operation from 2 to 60 MHz and is utilized for groundwave communications. The antenna is automatically tuned by the radio’s internal coupler. Color: Green

The kit is supplied with the RF-5800H-MP radio and includes:

» Collapsible whip antenna
» Flexible base
» Base adapter
» Antenna bag

PORTABLE HF DIPOLE ANTENNA

RF-1940-AT001

The RF-1940-AT001 is a lightweight, durable portable dipole antenna capable of 400-watt maximum operation from 3 to 30 MHz. It is utilized for NVIS communications and can be configured for other requirements. The antenna is stored on self-contained flat spools that form an integral part of the antenna. During operation, the spool is unwound to the appropriate frequency marker and deployed; the unused portion of wire remains on the spool. Each spool contains throwing weights for connection to trees, buildings, or masts. The RF-1940-AT001 can be directly connected to the RF-5800H-MP radio using the built-in antenna coupler or connected to an external antenna coupler for ALE operation. The RF-1940-AT001 can be configured as a dipole, sloping dipole, or a sloping vee. The antenna bag has clip points to attach to a military rucksack.

The antenna includes:

» Heavy-duty carrying bag
» 33-ft. (~10-m) RG-58 coaxial cable with BNC male connectors
» BNC to type N adapter
» Instruction Card

Deployed size: 150 ft. (~46 m)
Transport size: 6.0 W x 12 H x 3 D in.
(~15 x 30 x 8 cm)
Weight: 5 lbs. (~2 kg)
Color: Green with black winders

Accessories

TECHNICAL MANUAL

<table>
<thead>
<tr>
<th>Product Number</th>
<th>Product Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>10515-004-4200</td>
<td>Instruction Manual</td>
</tr>
</tbody>
</table>
**PORTABLE HF DIPOLE ANTENNA**

**RF-1941**

The RF-1941 is a lightweight, durable portable dipole antenna. The antenna is capable of 400 watt maximum operation from 2 to 30 MHz. It is utilized for NVIS communications and can be configured for other communications. It is stored on self-contained flat spools that form an integral part of the antenna. During operation, the spool is unwound to the appropriate frequency marker and deployed; the unused portion of wire remains on the spool. Each spool contains throwing weights for connection to trees, buildings or masts. The RF-1941 can be directly connected to the RF-5800H-MP radio using the built-in antenna coupler or connected to an external antenna coupler for ALE operation. The RF-1941 can be configured as a dipole, sloping dipole, or a sloping vee. The antenna bag has clip points to attach to a military rucksack.

The antenna includes:

- Heavy-duty carrying bag
- 33-ft. (~10-m) RG-58 coaxial cable with BNC male connectors
- BNC to type N adapter
- Instruction Manual

**Deployed max size:** 250 ft. (~76 m)
**Transport size:** 6.0 W x 12 H x 3 D in. (~15 x 30 x 8 cm)
**Weight:** 5 lbs. (~2 kg)
**Color:** Green with black winders

**20-WATT MANPORTABLE BROADBAND INVERTED VEE ANTENNA**

**RF-1944-AT020**

The RF-1944-AT020 antenna is a lightweight, manportable broadband dipole antenna that provides radiation patterns ideal for HF skywave communications from zero to 500 miles (~800 km). Used for up to 20 watts, the RF-1944-AT020 supports a rugged, yet simple design that allows quick installation into its primary inverted vee configuration. The antenna does not include a mast.

The RF-1944-AT020 includes:

- Balun
- Dipole radiating elements (2)
- Terminating loads (2)
- Ground stakes (2)
- Coaxial cable with male BNC connectors for direct balun attachment
- Weighted throwing line
- Carrying bag
- Instruction Card

**Deployed length:** 164 ft. (~59.9 m)
**Transport size:** 12 W x 7 H x 3 D in. (~30 x 20 x 8 cm)
**Weight:** 4 lbs. (~2 kg)
**Color:** Green

### Accessories

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HF VEHICULAR ANTENNAS

FEED-THROUGH BASE 16-FOOT HF WHIP ANTENNA

SB-V16B
The SB-V16B is a self-supporting, fiberglass whip antenna that is easily assembled and raised. The antenna is capable of 1 kW maximum operation from 2 to 30 MHz. It provides an omni-directional, low angle radiation pattern for groundwave propagation. This antenna requires the use of an antenna coupler. The antenna sections are constructed by embedding the RF conductor in a sheath of woven fiberglass that produces an exceptionally tough, but flexible, antenna. For vehicular applications, it mounts directly to the RF-292-01 Universal Antenna Mount via a 2-inch (~5-centimeter) hole adapter plate, included with the RF-292-01 (must be ordered separately).

The antenna consists of:

- Feed-through base
- Tapered 4-ft. (~1-m) sections, extendable to 16 ft. (~4.8 m)
- Mounting hardware
- Instruction manual

Deployed size: 16 ft. (~4.8 m)
Weight: 5 lbs. (~2 kg)
Color: Green

Accessories

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SPRING BASE 16-FOOT HF WHIP ANTENNA

SB-V16F
The SB-V16F is a self-supporting, fiberglass whip antenna that is easily assembled and raised. The antenna is capable of 1 kW maximum operation from 2 to 30 MHz. It provides an omni-directional, low angle radiation pattern for groundwave propagation. An antenna coupler is required. The antenna sections are constructed by embedding the RF conductor in a sheath of woven fiberglass that produces an exceptionally tough, but flexible, antenna. The SB-V16-F mounts directly to a NATO standard 4.5-inch (~11-centimeter) bolt circle (mount must be ordered separately).

The antenna consists of:
- Spring base
- Four tapered 4-ft. (~1-m) sections, extendable to 16 ft. (~4.8 m)
- Mounting hardware
- Instruction manual

Deployed size: 16 ft. (~4.8 m)
Weight: 14 lbs. (~6.4 kg)
Color: Green

SELF-SUPPORTING 16-FOOT HF WHIP ANTENNA

SB-V16T
The SB-V16T is a coated metal whip antenna capable of 400-watt maximum operation from 2 to 30 MHz. It provides an omnidirectional, low angle radiation pattern for groundwave propagation. This antenna requires the use of an antenna coupler. The SB-V16T can be affixed to an RF-292-01 Universal Antenna Mount (must be ordered separately), via a 2-inch (~5-centimeter) hole adapter plate included with the RF-292-01. The SB-V16T antenna may not be used with any of the RF-1980-AT001 series tilt whip adapters.

The antenna consists of:
- Feed-through base
- Five 3-ft. (~0.9-m) metallic sections, extendable to 16 ft. (~4.8 m)
- Mounting hardware for attachment to RF-292-01 Universal Antenna Mount
- Instruction manual

Deployed size: 16 ft. (~4.8 meters)
Weight: 5 lbs. (~2 kg)
Color: Green
SPRING BASE 16-FOOT HF TILT WHIP ANTENNA

RF-1980F-AT003 CARC Green
RF-1980F-AT004 CARC Tan

The RF-1980-AT003 is a self-supporting, fiberglass whip antenna that is easily assembled. The antenna is capable of 1 kW maximum operation from 2 to 30 MHz. It provides an omnidirectional, low-angle radiation pattern for groundwave communication or can be tilted over for skywave communication. This antenna requires the use of an antenna coupler.

The RF-1980F-AT003 antenna sections are constructed by embedding the RF conductor in a sheath of woven fiberglass that produces an exceptionally tough, but flexible, antenna. The tilt adapter mechanism allows the antenna to tilt at 0 degrees (vertical), 50 degrees, 70 degrees, and 90 degrees (horizontal). This unique capability allows a groundwave whip to tilt over and become ideal for NVIS communications on the move. The RF-1980F-AT003 bolts directly to a NATO standard 4.5-inch (~11-centimeter) bolt circle. Antenna mount must be ordered separately.

The antenna consists of:

- Spring base
- Tilt whip adapter
- Four tapered 4-ft. (~1.2-m) sections, extendable to 16 ft. (~5 m)
- Instruction manual

Deployed size:  16 ft. (~4.8 m)
Weight:   25 lbs. (~11kg)

Accessories

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SB-V35B

The SB-V35B is a self-supporting fiberglass whip antenna that is capable of 1 kW maximum operation from 2 to 30 MHz. It provides an omnidirectional, low-angle radiation pattern for groundwave and skywave propagation. This antenna requires the use of an antenna coupler. The antenna sections are constructed by embedding the RF conductor in a sheath of woven fiberglass that produces an exceptionally tough, but flexible, antenna. For vehicular applications, the SB-V35B mounts directly to the RF-292-01 Universal Antenna Mount (must be ordered separately) only, via a 2-inch (~5-centimeter) hole adapter plate included with the RF-292-01.

The antenna consists of:

» Feed-through base
» Four straight 4-ft. (~1-m) sections, extendable to 32.5 ft. (~9.91 m)
» Four tapered 4-ft. (~1-m) sections, extendable to 32.5 ft. (~9.91 m)
» Mounting hardware
» Instruction manual

Deployed size: 32 ft. (~9.7 m)
Weight: 11 lbs. (~3.4 kg)
Color: Green

SB-V35C

The SB-V35C is a self-supporting, fiberglass whip antenna that is designed for stationary applications. The antenna is capable of 1 kW maximum operation from 2 to 30 MHz. The antenna provides an omnidirectional, low-angle radiation pattern for groundwave and skywave propagation. This antenna requires the use of an antenna coupler. The antenna sections are constructed by embedding the RF conductor in a sheath of woven fiberglass that produces an exceptionally tough, but flexible, antenna. The SB-V35C may be guyed.

The antenna consists of:

» Flange base
» Four straight 4-ft. (~1-m) sections, extendable to 32.5 ft. (~9.91 m)
» Four tapered 4-ft. (~1-m) sections, extendable to 32.5 ft. (~9.91 m)
» Mounting hardware
» Instruction manual

Deployed size: 32 ft. (~9.8 m)
Weight: 15 lbs. (~6.8 kg)
Color: Green

Accessories

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LOCKING SPRING BASE 32-FOOT HF WHIP ANTENNA

SB-V35F

The SB-V35F is a self-supporting, fiberglass whip antenna with a locking spring base. The antenna is capable of 1 kW maximum operation from 2 to 30 MHz. It provides an omnidirectional, low-angle radiation pattern for groundwave and skywave propagation. This antenna requires the use of an antenna coupler. The spring base permits the flexible spring to be locked in either a rigid vertical position (stationary operations) or left in a flexible mode (mobile or NVIS operations). The antenna sections are constructed by embedding the RF conductor in a sheath of woven fiberglass that produces an exceptionally tough, but flexible, antenna. The SB-V35F mounts directly to a NATO standard 4.5-inch (11-centimeter) bolt circle. Antenna mount must be ordered separately.

The antenna consists of:

» Spring base
» Four straight 4-ft. (~1-m) sections, extendable to 32.5 ft. (~9.91 m)
» Four tapered 4-ft. (~1-m) sections, extendable to 32.5 ft. (~9.91 m)
» Mounting hardware

Deployed size: 32 ft. (~9.91m)
Weight: 20 lbs. (~9 kg)
Color: Green

SHIPBOARD FLANGE BASE 35-FOOT HF WHIP ANTENNA

SB-V35S

The SB-V35S is a heavy-duty fiberglass whip antenna intended for shipboard or stationary use. The antenna is capable of 5 kW maximum operation from 2 to 30 MHz or 1 kW maximum operation from 1.6 to 2.0 MHz. It provides an omnidirectional, low angle radiation pattern for groundwave and skywave propagation. This antenna requires the use of an antenna coupler. The SB-V35S mounting flange uses four bolts around a 6-inch (~15-centimeter) bolt circle. The SB-V35S is not compatible with the RF-1980-AT001 series of tilt whip adapters.

The antenna consists of:

» Flange base
» Two sections, extendable to 35 ft. (~11 m)
» Instruction manual

Deployed size: 35 ft. (~11 m)
Weight: 65 lbs. (~30 kg)
Color: Navy Gray

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Falcon II® AN/PRC-150(C) Application Guide
HF NVIS LOOP ANTENNA

RF-3134-AT003 (for RF-382A couplers)
RF-3134-AT005 (for RF-5382 couplers)

The RF-3134-AT00X Full Loop Antenna is designed for HF near vertical incident skywave (NVIS) communications. It is a Hi-Q magnetic loop antenna with an extremely narrow bandwidth, making it optimal for NVIS and for operation where multiple antennas are co-located. The RF-3134-AT00X provides limited groundwave capability to maintain line-of-sight (LOS) links. It works with the RF-382A and RF-5382 couplers, differing only in the associated power and control cable. Its light weight and loop profile make it easy to install and uninstall from the standard RF-292 Antenna Mount for quick interchange to other types of antennas. It does not depend on a ground plane and can be mounted on most vehicles, masts/tripods, or fixed installations. In vehicular installations, it can provide NVIS Communications-on-the-Move (COTM), dependent on the vehicles’ attitude dynamics over terrain.

The RF-3134-AT00X includes:

» HF magnetic full loop antenna elements and tower
» Protective boot
» Coupler/PA cable
» High voltage cable installation kit
» Operator’s manual

SHIPBOARD FLANGE BASE 24-FOOT HF WHIP ANTENNA

RF-1930CHD

The RF-1930CHD is a heavy-duty fiberglass whip antenna intended for shipboard or stationary use. The antenna is capable of 1 kW maximum operation from 2 to 30 MHz. The antenna provides an omnidirectional, low-angle radiation pattern for groundwave and skywave propagation. This antenna requires the use of an antenna coupler. The RF-1930CHD mounting flange uses four bolts around a 5-inch (13-centimeter) bolt circle. The RF-1930CHD is not compatible with the RF-1980-AT001 series of tilt whip adapters.

The antenna consists of:

» Feed-through base
» Two sections, extendable to 24 ft. (7 m)
» Instruction manual

Deployed size: 24 ft. (~7.3 m)
Weight: 8 lbs. (~4 kg)
Color: White

PORTABLE VEHICLE MOUNTED HF CROSSED DIPOLE ANTENNA

RF-1936V-10 CARC Green
RF-1936V-20 CARC Tan
RF-1936V-30 Green

The RF-1936V-10 is a portable, vehicle-mounted, rapid-deployment crossed dipole antenna. It is designed for NVIS communications up to 420 miles (~680 km) and is capable of 400-watt maximum operation from 2 to 30 MHz. This 12-pound (~5.5-kg) antenna is easy to carry and can be raised by two people in five minutes. The RF-1936V-10 is
RF-1942-AT001 HF antenna kit includes all accessories needed for quick deployment of mobile and stationary configurations. The antenna is capable of 1 kW maximum operation from 2 to 30 MHz and requires use of an antenna coupler.

The RF-1942-AT001 is a combination of antennas that can be configured into:

- 32-foot whip for exceptionally efficient groundwave and low-angle skywave
- 16-foot tilt whip for on-the-move NVIS communications
- Inverted vee for enhanced skywave performance

The antenna is stowed in a canvas bag for transportability. The RF-1942-AT001 mounts to a standard NATO 4.5-inch (~11-centimeter) bolt circle pattern. The RF-292-01 Universal Antenna Mount (must be ordered separately) can be used to mount the antenna to a vertical surface.

The RF-1942-AT001 includes:

- Whip sections
- Locking Spring Base
- Stakes (3)
- Antenna Tie-down
- Dipole Kit
- Guy Assembly
- Tilt whip adapter
- Canvas bag
- Instruction manual
HF TRANSPORTABLE ANTENNAS

HF FAN DIPOLE ANTENNA RADIATING ELEMENT

The RF-1912E-AT001 is a fan dipole antenna radiating element capable of 1 kW maximum operation from 1.6 to 30 MHz. The RF-1912E-AT001 has been optimized for both NVIS communications between 1.6 and 10 MHz and medium-range skywave out to 746 miles (~1200 km) for 10 to 30 MHz. The element length and height above ground have been designed to optimize take-off-angle for HF skywave propagation. The antenna can also be configured as a top-loaded monopole for short-range groundwave and long-range skywave. It achieves near 100% radiation efficiency because it does not contain any resistive loads. Broadband operation requires an antenna coupler. Antenna mast is not included.

The RF-1912E-AT001 includes:

- Radiating elements
- 24 ft. (~7.3 m) of vertical feedline
- 100 ft. (~30 m) of rope for attaching to mast
- Instruction manual

Deployed size: 105 L x 26 W x 30 H ft. (~32 x 7.9 x 9 m) typical
Actual width and height are determined by customer-provided mast system.

Transport size: 18.0 L x 8 W x 4 H in. (~206 x 20 x 10 cm)
Weight: 7 lbs. (~3 kg)
Color: Radiating element is black

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HF FAN DIPOLE ANTENNA WITH SECTIOINAL MAST

RF-1912T-AT002 (with green storage bags)
RF-1912T-AT001 (with tan storage bags)

The RF-1912T-AT00X is a transportable fan dipole antenna with lightweight mast sections that includes all the components needed to transport and temporarily install the antenna. The antenna is capable of 1 kW maximum operation from 1.6 to 30 MHz, and has been optimized for both NVIS communications between 1.6 and 10 MHz and medium-range skywave out to 746 miles (~1200 km) for 10 to 30 MHz. The element length and height above ground have been designed to optimize take-off-angle for HF skywave propagation. The antenna can also be configured as a top-loaded monopole for short-range groundwave and long-range skywave. It achieves near 100% radiation efficiency because it does not contain any resistive loads. Broadband operation requires an antenna coupler.

The RF-1912T-AT00X includes all materials for transportable construction:

» Aluminum masts (2)
» Guy assemblies
» Halyards
» Ground stakes
» Pre-constructed radiating element assembly
» Vertical feedline
» Transportable storage bags (2)

Deployed size: 105 L x 26 W x 30 H ft. (~32 x 7.9 x 9 m)
Transport size: 81 L x 11 W x 7 H in. (~206 x 28 x 20 cm) and 23 L x 14 W x 12 H in. (~58 x 35 x 30 cm) (two bags)
Weight: 135 lbs. (~61.4 kg)
Color: Radiating element is black.

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HF FAN DIPOLE ANTENNA WITH TELESCOPING MASTS

RF-1912T-AT101 (with tan storage bags)
RF-1912T-AT102 (with green storage bags)

The RF-1912T-AT101 is a transportable fan dipole antenna with telescoping mast that includes all the components needed to transport and temporarily install the antenna. The antenna is capable of 1 kW maximum operation from 1.6 to 30 MHz and has been optimized for both NVIS communications between 1.6 and 10 MHz and medium-range skywave out to 1200 km for 10 to 30 MHz. The element length and height above ground have been designed to optimize take-off-angle for HF skywave propagation. It can also be configured as a top-loaded monopole for short-range groundwave and long-range skywave. It achieves near 100% radiation efficiency because it does not contain any resistive loads. Broadband operation requires an antenna coupler.
The RF-1912T-AT101 antenna includes:

- 30-ft. (~9-m) fiberglass telescoping masts (2)
- Guy assemblies
- Halyards
- Ground stakes
- Pre-constructed radiating element assembly
- Vertical feedline
- Transportable storage bags
- Instruction manual

Deployed size: 30-ft. L x 3.3-in. diameter base (~9 m x 8.4 cm)
Transport size: Bag 1: 23 L x 14 W x 12 H in. (~58 x 36 x 30 cm)
(in 3 bags)
Bag 2: 79 L x 8 W x 8 H in. (~2m x 20 x 20 cm)
Bag 3: 79 L x 8 W x 8 H in. (~2m x 20 x 20 cm)
Weight: 100 lbs. (~50 kg)
Color: Radiating element is black, masts are green

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<td>10515-0665-4100</td>
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</table>
The RF-1937 is a transportable, vertically-raised, ground stake antenna designed around the SB series whip antennas. The antenna is capable of 1 kW maximum operation from 2 to 30 MHz and is intended for use for groundwave or long distance skywave communications. It can be set up with whip heights between 16 feet (~5 meters) and 32 feet (~10 meters), and requires the use of antenna coupler. The RF-1937 is designed for ground-level mounting. The base mount is installed on a base stake driven into the ground. One man can easily carry this antenna.

The kit contains:

- Guy rope assembly
- Ground radials on wheels (4)
- Canvas carrying bag
- Instruction manual

Deployed size: 61 L x 61 W x 15 H ft. (~19 x 19 x 5 m)
Transport size: 7-in. diameter x 26 in. (~20-cm diameter x 66 cm)
Weight: 15 lbs. (~6.8 kg)
The RF-1944-AT150 and RF-1944-AT151 are low-profile, lightweight, tactical broadband dipole antennas for operation in an inverted vee configuration. The antennas are capable of 150 watts maximum operation from 1.6 to 30 MHz and is utilized for NVIS communications. The RF-1944-AT150 and RF-1944-AT151 antennas provide instantaneous bandwidth performance over the entire frequency range by properly terminating the dipole ends. This bandwidth makes the RF-1944-AT150 and RF-1944-AT151 antennas an excellent choice when operating with frequency-agile waveforms because an antenna coupler is not required. Antenna masts are not included.

The RF-1944-AT150 includes:
- Balun
- Dipole elements
- Termination resistors
- 33-ft. (~10-m) coaxial cable
- Halyard
- Ground stakes
- Canvas bag
- Instruction manual

The RF-1944-AT151 includes:
- All of the above, plus a sledge hammer

Deployed size: 164 ft. (~49.9 m)
Transport size: 12 L x 20 W x 3 H in. (~30 x 50 x 8 cm)
Weight: (RF-1944-AT150): 11 lbs. (~4.9 kg)
          (RF-1944-AT151): 14 lbs (~6.3 kg)
Color: Green
**Accessories**

**TECHNICAL MANUAL**

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**400-WATT TRANSPORTABLE HF BROADBAND INVERTED VEE ANTENNA**

**RF-1944-AT400**

The RF-1944-AT400 is a low-profile, lightweight, tactical broadband dipole antenna for operation in an inverted vee configuration. The antenna is capable of 400 watt maximum operation from 1.6 to 30 MHz and is utilized for NVIS communications. The RF-1944-AT400 antenna provides instantaneous bandwidth performance over the entire frequency range by properly terminating the dipole ends. This bandwidth makes the RF-1944-AT400 antenna an excellent choice when operating with frequency-agile waveforms because an antenna coupler is not required. Antenna mast is not included.

The RF-1944-AT150 includes:

- Balun
- Dipole elements
- Termination resistors
- 33-ft. (~10-m) coaxial cable
- Halyard
- Canvas bag
- Instruction manual

Deployed size: 164 ft. (~49.9 m)
Transport size: 12 L x 20 W x 3 H in. (~30 x 50 x 8 cm)
Weight: 13 lbs. (~5.9 kg)
Color: Green

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**HF LONG-WIRE ANTENNA KIT**

**SB-A150**

The SB-A150 includes all materials required to construct a 150-foot (~46-meter) long-wire antenna. The antenna is capable of 1 kW maximum operation from 1.6 to 30 MHz. The antenna is intended to be used for groundwave or long-distance skywave communications and can be cut to a specific frequency for single channel operation or used with an antenna coupler for broadband operation.

The SB-A150 kit includes:

- Ground rod
- Insulators
- Wire
- Nylon braided support rope
- Instruction sheet

Deployed size: Up to 150 ft. (~46 m)
Transport size: 6 ft. (~2 m) ground rod with wire spool
Weight: 5 lbs. (~2 kg)
Color: Copper
HF FIXED INSTALLATION ANTENNAS

FIXED HF FAN DIPOLE ANTENNA

RF-1912B-AT001
The RF-1912B-AT001 is a fixed-installation fan dipole antenna that includes all the components needed to transport and permanently install the antenna. The antenna is capable of 1 kW maximum operation from 1.6 to 30 MHz and has been optimized for both NVIS communications between 1.6 and 10 MHz and medium-range skywave out to 746 miles (~1200 km) for 10 to 30 MHz. The element length and height above ground has been designed to optimize take-off-angle for HF skywave propagation. It can also be configured as a top-loaded monopole for short-range groundwave and long-range skywave. The antenna achieves near 100% radiation efficiency because it does not contain any resistive loads. Broadband operation requires an antenna coupler.

The RF-1912B-AT002 includes:
» Masts (2)
» Guy assemblies
» Halyards
» Guy anchors
» Pre-constructed radiating element assembly
» Vertical feedline
» Antenna coupler base plate
» Installation kit
» Spare parts kit

ROOF-MOUNTED INVERTED VEE HF DIPOLE ANTENNA

RF-1950-AT001
The RF-1950-AT001 is a roof-mounted inverted vee dipole antenna designed to be installed without penetrating the roof. The antenna is capable of 1 kW maximum operation from 2 to 30 MHz. The RF-1950-AT001 has been optimized for both NVIS communications from 1.6 to 10 MHz and medium-range skywave out to 746 miles (~1200 km) for 10 to 30 MHz. It incorporates galvanized steel bases and a fiberglass mast to support the antenna elements. One platform holds the fiberglass mast and four small platforms support the guys and elements. The large platform allows direct bolting of the required RF-382A-15 or RF-2601 antenna couplers.

The RF-1950-AT001 includes:
» Mast sections
» Guy assembly
» Roof mount
» Mast support frame with guy
» Instruction manual

| Deployed size: 50 L x 33 W x 26 H ft. (~15 x 10 x 7.9 m) | Weight: 580 lbs. (~260 kg) with shipping crate |
| Transport size: 83.5 L x 21.5 W x 17.25 H in. (~212 x 55 x 44 cm) | Color: Green |

Accessories

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