



















Established in 1976 Barrett Communications designs, manufactures and markets HF and VHF radio equipment for specialised, autonomous, medium and long distance radio communications. HF and VHF radio communications is “free to air”; having no recurring usage charges once the communications network has been installed.

Barrett radio networks are capable of providing voice, email, data, fax, and tracking solutions for fixed base station, mobile and manpack portable applications. Our global distribution and customer support network provides easy access and backup for our customer base in over 150 countries globally.

This catalogue covers the Barrett tactical range of products including all related equipment.

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**Notes:-**

1. Specifications are typical. Equipment descriptions and specifications are subject to change without notice or obligation
2. For complete technical specifications please refer to your business development manager
3. Net weights provided are indicative and are subject to variation, they are provided as guide for operational use of products only.  
Packed weight will be determined based on orders once received and as such are not indicated in this catalogue.

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# **PRC-4090 HF SDR Packages**



	Part Number	Net Weight
PRC-4090 HF SDR Tactical manpack package	4090-00-10	

## Standard features:-

- 1000 channels with frequency range 1.5 to 30 MHz
- Power output 10 - 30 W PEP
- Software defined core & DSP
- Digital Selective Calling & Telcall - 4 & 6 digit
- GPS & RS232 interface
- Meets MIL-STD 810G for shock, temperature, vibration, dust and immersible to 1 m for 1 hr

## Optional Features\*:-

- ECCM Options (COMSEC/TRANSEC)
  - MIL-STD 188-141B ALE (JITC certified)
  - Internal fit high speed modem
- \* For additional options and accessories, please see relevant section detail.

**Note:-** See brochure for more detailed information.  
 - IEC mains cord (UK, European, AUS and US style\* Selected at point of order)



## Includes:-

1	PRC-4090 HF Tactical manpack transceiver	4090-00-01
2	PRC-4090 Control handset	4090-01-09
3	PRC-4090 Handset Cradle and Molle strap	4090-05-04
4	Control Handset cable 1.2 metres	4090-01-12
5	H-250 Tactical Handset	4090-01-14
6	PRC-4090 Li-ion Battery Pack 16Ah	4090-03-05
7	Collapsible Whip 3m - for PRC-4090	4090-02-10
8	Gooseneck - for PRC-4090	4090-02-11
9	Counterpoise earth kit - single wire	4090-02-09
10	Long wire throw out antenna	4090-02-06
11	AC/DC Mains Adapter for use with 4090-03-05 Battery Pack	4090-03-04
12	Daypack - colour Multicam	4090-01-36
13	PRC-4090 operating and installation manual	4090-00-02

	Part Number	Net Weight
PRC-4090 HF SDR Tactical mobile package	4091-00-10	N/A

## Standard features:-

- 1000 channels with frequency range 1.5 to 30 MHz
- Power output 10 - 150 W PEP,
- Power input 12- 24 VDC nominal
- Software defined core & DSP
- Digital Selective Calling & Telcall - 4 & 6 digit
- GPS & RS232 interface
- Meets MIL-STD 810G for shock, temperature, vibration, dust and immersible to 1 m for 1 hr

## Optional Features\*:-

- ECCM Options (COMSEC/TRANSEC)
- MIL-STD 188-141B ALE (JITC certified)
- Internal fit high speed modem
- Cooling fan

\* For additional options and accessories, please see relevant section detail.

**Note:-** See brochure for more detailed information.



## Includes:-

1	PRC-4090 HF Tactical manpack transceiver	4090-00-01	
2	PRC- 4090 Control handset	4090-01-09	
3	Control Handset cable 1.2 metres	4090-01-12	
4	4090 Handset cradle docking station	4090-05-03	
5	H-250 Tactical Handset	4090-01-14	
6	PRC-4090 System docking station (SDS)	4090-05-00	
7	Anti-vibration mounting plate	4090-05-07	
8	DC power cable and connector (6.0 metres)	4090-03-06	
9	Tactical installation kit	4090-05-08	
10	RF Cable	SA-49169	
11	PRC-4090 operation and installation manual	4090-00-02	

	Part Number	Net Weight
PRC-4090 HF SDR Tactical base package	4092-00-10	N/A

## Standard features:-

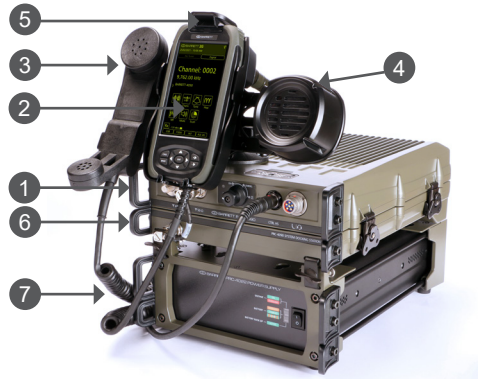
- 1000 channels with frequency range 1.5 to 30 MHz
- Power output 10 - 150 W PEP, power input 24 VDC (with SDS and 24V power supply)
- Software defined core & DSP
- Digital Selective Calling & Telcall - 4 & 6 digit
- GPS & RS232 interface
- Meets MIL-STD 810G for shock, temperature, vibration, dust and immersible to 1 m for 1 hr

## Optional Features\*:-

- ECCM Options (COMSEC/TRANSEC)
- MIL-STD 188-141B ALE (JITC certified)
- Internal fit high speed modem
- Cooling Fan

\* For additional options and accessories, please see relevant section detail.

**Note:-** See brochure for more detailed information.



## Includes:-

1	PRC-4090 HF Tactical manpack transceiver	4090-00-01	
2	PRC-4090 Control handset	4090-01-09	
3	Control handset cable 1.2 metres	4090-01-12	
4	4090 Handset cradle docking station	4090-05-03	
5	H-250 Tactical Handset	4090-01-14	
6	PRC-4090 System Docking Station (SDS)	4090-05-00	
7	PRC-4022 AC Power supply module - 24 VDC	4090-06-01	
8	DC Power Cable PRC-4022 to System Docking Station	4090-03-02	
9	RF Cable	SA-49169	
10	IEC Mains power cable (UK, European, AUS and US style. Selected at point of order)	SA-00020	
11	PRC-4090 operation and installation manual	4090-00-02	

	Part Number	Net Weight
PRC-4090 HF SDR Tactical transceiver	4090-00-01	N/A

**Standard features:-**

- 1000 channels with frequency range 1.5 to 30 MHz
- Software defined core & DSP
- Digital Selective Calling & Telcall - 4 & 6 digit
- GPS & RS232 interface
- Meets MIL-STD 810G for shock, temperature, vibration, dust and immersible to 1 m for 1 hr

**Optional Features\*:-**

- ECCM Options (COMSEC/TRANSEC)
- MIL-STD 188-141B ALE (JITC certified)
- Internal fit high speed modem

\* For additional options and accessories, please see relevant section detail.

**Note:-** See brochure for more detailed information.

**Includes:-**

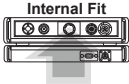
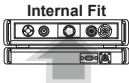

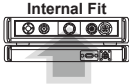
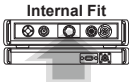
- 1 PRC-4090 HF Tactical manpack transceiver
- 2 PRC-4090 Control handset
- 3 Barrett PRC-4090 operation and installation manual
- 4 Control handset cable 1.2 metres


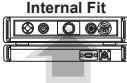
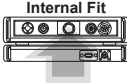


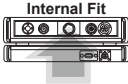





# **HF Hardware and Software Options**





	Part Number	Net Weight
<b>Frequency hopping (export license required)</b>  25 or 5 hops per second - no central synchronisation station, no net entry delay or late entry delay.  <b>Note:-</b> GPS/ESU to be purchased separately. This option requires an Australian Department of Defence Export Licence.	4090-01-01	N/A
		
<b>Secure Call</b>  A point to point or point to multipoint Secure Call system initiated by the entry of a scramble key and the transmission of a Secure Call Selcall.	4090-01-02	N/A
		
<b>2G Automatic link establishment (ALE)</b>  MIL-STD 188-141B 2G / FED-STD 1045 ALE  <b>Includes:-</b> - 2G ALE Operation manual P/N BCM40524  <b>Note:-</b> When using ALE, at least one ALE fill program is required by the system administrator to set up the ALE network - this fill program is included in the 4000 series programming kit P/N BCA40001.	4090-01-03	N/A
		
<b>3G Automatic link establishment (ALE)</b>  3rd generation to STANAG 4538.  <b>Includes:-</b> - 2G/3G ALE Operation manual P/N BCM40524  <b>Note:-</b> One transceiver must be fitted with GPS per network to allow ALE3G synchronous operation.	4090-01-04	N/A
		
<b>GPS Push</b>  Enables the PRC-4090 to automatically push GPS transmissions to a receiver program such as 4077 HF Map & Track (BC407700).	4090-01-48	N/A
		

	Part Number	Net Weight
Free Scroll Tx	4090-01-28	N/A
<div> <div>Allows voice transmission while using the Free Scroll Rx feature of the PRC-4090 transceiver.</div> <div> <div>Internal Fit</div>  </div> </div>		
Digital voice module: DV	4090-01-42	N/A
<div> <div>Digital Voice Vocoder Module 700/1200/2400 bps</div> <div> <div>Includes:-</div> <ul style="list-style-type: none"> <li>- "TWELP" Vocoder</li> <li>- Clear Digital Voice</li> </ul> <div>Notes:-</div> <ul style="list-style-type: none"> <li>- Factory internal fit only</li> <li>- Does not include encryption</li> <li>- Can be implemented with Mil Data standards</li> </ul> </div> <div> <div>Internal Fit</div>  </div> </div>		
Secure digital voice module with DES 56 encryption - SDV-56	4090-01-41	N/A
<div> <div>Secure digital voice module auto vocoder 700/1200/2400 with DES 56 encryption</div> <div> <div>Includes:-</div> <ul style="list-style-type: none"> <li>- "TWELP" Vocoder</li> <li>- Clear Digital Voice</li> </ul> <div>Notes:-</div> <ul style="list-style-type: none"> <li>- Factory internal fit only</li> <li>- This option requires key management and Configuration Load software</li> <li>- Can be implemented with MIL Data standards</li> <li>- <b>This option does not require an Australian Government Export Licence</b></li> </ul> </div> <div> <div>Internal Fit</div>  </div> </div>		

	Part Number	Net Weight
Secure digital voice module with AES 256 encryption - SDV-256	4090-01-40	N/A
Secure digital voice module auto vocoder 600/1200/2400 with AES 256 encryption		
<b>Includes:-</b> <ul style="list-style-type: none"> <li>- "TWELP" Vocoder</li> <li>- Clear Digital Voice</li> </ul>		
<b>Notes:-</b> <ul style="list-style-type: none"> <li>- Factory internal fit only</li> <li>- This option requires key management and Configuration Load software</li> <li>- Can be implemented with MIL Data standards</li> <li>- <b>This option requires an Australian Government Export Licence</b></li> </ul>		
		
4090 HF Programming Kit	4090-01-30	0.10 kg
<b>Includes:-</b> <ul style="list-style-type: none"> <li>- Software (Operating manual included on the USB) P/N USB-40001</li> </ul>		
		
<b>Note: Interface Pack Required</b> <b>See Page 25</b>		
4000 Series HF Remote Control Software (Windows)	BCO40516	0.80 kg
Enable control of a 4000 series transceiver from a Windows desktop computer.		
<b>Includes:-</b> <ul style="list-style-type: none"> <li>- 4000 Series Programming Software on USB</li> <li>- Buddy desktop microphone P/N BCA40017</li> <li>- Desktop headphone P/N BCA40018</li> </ul>		
  		
Key Management and Configuration Load software AES 256	4090-01-50	N/A
For use SDV-256 - P/N BCO20520		
Compatible with 4038 TAC Message (P/N 4090-04-38) and 4078 TAC Command (P/N 4090-04-78) software.		
<b>Includes:-</b> <ul style="list-style-type: none"> <li>- Key Management and Configuration Load - AES 256 software P/N BCUSB40520</li> </ul>		
		
<b>Note: Interface Pack Required</b> <b>See Page 25</b>		

## Key Management and Configuration Load software DES 56

Part Number

Net Weight

4090-01-51

N/A

For use with SDV-56 - P/N BCO20521

Compatible with 4038 TAC Message (P/N 4090-04-38) and 4078 TAC Command (P/N 4090-04-78) software.

### Includes:-

- Key Management and Configuration Load - DES 56 software P/N BCUSB40521



**Note: Interface Pack Required**  
See Page 25

## Wifi Adaptor Kit

BCO40508

0.01 kg

This option enables you to use external devices such as tablets and smartphones to control the transceiver using Barrett apps (iOS / Android).

### Includes:-

- 4000 Series IP Connectivity Networking Guide P/N BCM40507
- Penguin adaptor



For Use with 4090/4050 Control Handset, requires:

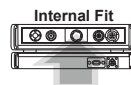
- PRC-4090 Handset USB Interface (4090-01-27)

## ARINC Selcall encoder

BCO40509

N/A

Enables transmission of aviation ARINC standard selcall.



## 4077 HF Map & Track

BC407700

0.20 kg

### Includes:-

- 4077 HF Map & Track Software on USB
- 4077 HF Map & Track Manual P/N BCM407700



### Requires:-

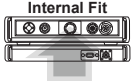

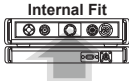
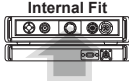

- GPS Receiver P/N BCA40009
- GPS Push Option P/N BCO40518

**Note: Interface Pack Required**  
See Page 25

## **HF Data options**





	Part Number	Net Weight
<b>Clover 2000 internal modem with internet and fax gateway software</b>  Operates with the supplied Barrett 2020 HF data system software providing full email facilities and connection to the Internet email and international fax system.  <b>Includes:-</b> <ul style="list-style-type: none"> <li>- Internal fit modem PCB P/N PO-07426</li> <li>- Barrett 2020 HF email and fax gateway software P/N USB-409002</li> </ul>	4090-04-02	N/A
	  	
	<b>Note: Interface Pack Required</b> <b>See Page 25</b>	
<b>Clover 2500 Modem internal fit PCB</b>  4000 series clover modem PCB utilises the Clover 2500 waveform for data transfer.  Compatible with: <ul style="list-style-type: none"> <li>- Barrett 4020 HF Radio Mailbox (BCA402000)</li> </ul>	4090-04-25	N/A
		
<b>3G Packet Data Modem (9600bps)</b>  <b>Includes:-</b> Internal Fit modem, 9600bps  <b>Notes:-</b> Requires 3G Automatic link establishment (P/N 4090-01-04).	4090-04-04	N/A
		
<b>Internal Fit Data Modem with Mil 110A/B Waveform</b>  <b>Includes:-</b> <ul style="list-style-type: none"> <li>- HF MIL110B 9600bps Modem</li> <li>- Barrett DataPoint 110A/B Interface software</li> </ul> <b>Note:-</b> <ul style="list-style-type: none"> <li>- Requires third party HF Data communications software for file/chat data transfer between HF stations</li> </ul>	4090-04-26	0.20 kg
	  <b>Note: Interface Pack Required</b> <b>See Page 25</b>	

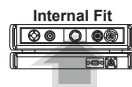
Part Number	Net Weight
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### Internal Fit Data Modem with Mil 110A/B/F ISB Waveform

4090-04-27	0.20 kg
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#### Includes:-

- HF MIL110B/F 75-19200bps Modem
- Barrett DataPoint 110A/B/F Interface software



**Note: Interface Pack Required**  
See Page 25

#### Note:-

- Requires third party HF Data communications software for file/chat data transfer between HF stations
- Compatible with 2G ALE (P/N) and RC50-B Communications Software Suite (P/N 4090-04-66)

### RC50-B Communications software suite (Win)

4090-04-66	0.20 kg
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#### Includes:-

- RC-50B STANAG 5066 based communications suite



**Note: Interface Pack Required**  
See Page 25

#### Note:-

- Requires: 2G Automatic link establishment (ALE) P/N 4090-01-03,
- Requires MIL 110 A/B Waveform (75-9600bps) P/N 4090-04-26
- See also 4090-01-50/51 AES/DES Encryption options

### 4038 3G TAC Message Software (Win)

4090-04-38	0.25 kg
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4038 3G TAC Message is designed with strategic and naval HF operators in mind. 4028 3G TAC Message provides HF communications with a familiar smartphone-like user experience on a PC or Laptop. Chat Messaging and File Transfer are available from a convenient and easy to use interface. Email messages can be sent and received using well known email clients such as MS Outlook™. Data communications on the HF network benefit from the robust STANAG 4538 3G packet modem.



**Note: Interface Pack Required**  
See Page 25

#### Includes:-

- PC Software for 4038 3G TAC Message
- Key Management Software
- System Configuration Software
- Configuration Load Software

#### Notes:-

- Requires 3G HF Packet Data modem (STANAG 4538)
- Requires BCO40502 3G ALE - Automatic Link Establishment option for Link Set up
- See also BCO40526/7 DES/AES Encryption options

### 4078 3G TAC Command Software (Win)

4078 3G TAC Command is designed with military commanders in mind. The software is designed for touch-screens and lends itself to be used on rugged tablets. Situational Awareness using NATO standardised symbols provides the operator with a view of friendly unit positions (Blue Force Tracking), enemy contacts, reference points and geo-fences. Chat Messaging, Email Messaging, Form Messaging and File Transfer is also provided.

#### Includes:-

- TAC Command Tracking and Message Gateway
- Key Management Software
- System Configuration Software
- Configuration Load Software

#### Notes:-

- Requires 3G Packet Data Modem (9600bps)  
P/N 4090-04-04
- Requires BCO40502 3G ALE - Automatic Link Establishment option for Link Set up
- See also 4090-01-50/51 AES/DES Encryption options

Part Number

Net Weight

4090-04-78

0.25 kg



**Note: Interface Pack Required**  
See Page 25

### 4079 3G TAC Command Centre (Win)

4079 3G TAC Command Centre is designed with military commanders in mind. The software is designed for touch-screens and lends itself to be used on rugged tablets. Situational Awareness using NATO standardised symbols provides the operator with a view of friendly unit positions (Blue Force Tracking), enemy contacts, reference points and geo-fences. Chat Messaging, Email Messaging, Form Messaging and File Transfer is also provided.

#### Includes:-

- TAC Command Centre Tracking and Message Centre Gateway
- Key Management Software
- System Configuration Software
- Configuration Load Software

#### Notes:-

- Requires 3G Packet Data Modem (9600bps)  
P/N 4090-04-04
- Requires BCO40502 3G ALE - Automatic Link Establishment option for Link Set up
- 3G Packet Data Modem (9600bps) P/N 4090-04-04
- See also 4090-01-50/51 AES/DES Encryption options

4090-04-79

0.25 kg



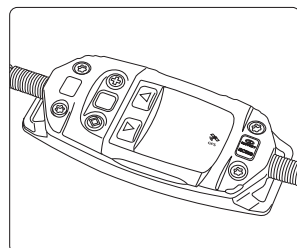
**Note: Interface Pack Required**  
See Page 25

	Part Number	Net Weight
Barrett PRC-2066 HF Tactical In-line Voice and Position Encrypter	2066-00-01	0.5 kg

The Barrett range of In-Line Voice and Position Encryptors are high performance, digital, in-line secure voice modems with built-in GPS. They are suitable for first responders, security agencies, governmental and paramilitary users with voice privacy and asset tracking. Easily integrating with HF radio transceivers via the audio or accessory interface, the units are suitable for use with hand-held, man-pack and vehicular radio equipment. NATO green.

## Connector options:

1. Speaker Microphone
2. H250 Handset
3. Headset with Microphone

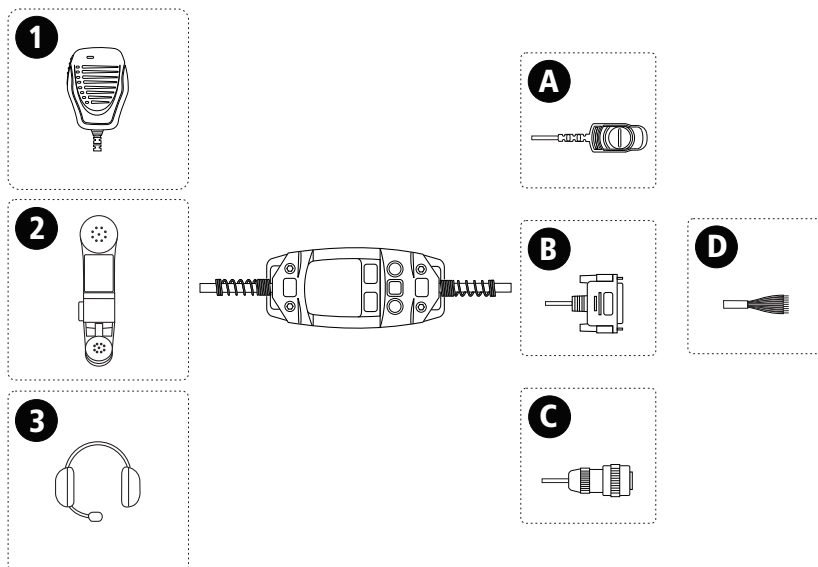


A. Hotshoe connector for connection to a 4090/PRC-4090 HF Transceiver

B. DB-25 connector for connection to a 4050 HF SDR Transceiver

C. Mil Connector for connection to a 2090/PRC-2090 Transceiver

D. Underminated connection



### Barrett PRC-2067 HF Tactical Vehicular/Base Voice and Position Encrypter

Part Number

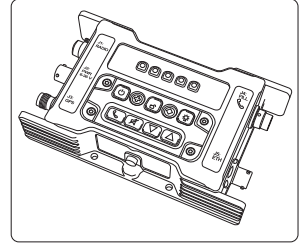
Net Weight

2067-10-70

0.55 kg

The Barrett Voice and Position Encrypters are high performance, digital, secure voice modems. They are suitable for first responders, security agencies, governmental and paramilitary users with voice privacy and asset tracking. Easily integrating with HF radio transceivers via the audio or accessory interface, the units are suitable for use with base station and vehicular radio installations.

Please contact Barrett Communications for further information.



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# Interface Packs





	Part Number	Net Weight
Interface Pack A	4090-01-49	

For IP connectivity with PRC-4090 in Mobile or Base Station setup.

- Includes:
- Ethernet cable 2m



Interface Pack B	4090-01-32	0.08 kg
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Provides serial connection to a PC from a PRC-4090 Manpack.

- Includes:
- PRC-4090 Hotshoe to USB Cable



Interface Pack C	4090-01-27	0.02 kg
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USB Interface Unit to suit a PRC-4090 Control Handset.






- Includes:
- Handset USB Interface (4090-01-27)



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# **HF Hardware accessories**



	Part Number	Net Weight
<b>PRC-4090 Control Handset</b>  Control Handset for PRC-4090 HF Transceiver. Full colour LED touch screen display. Full radio control.  Requires PRC-4090 Control Handset Cable (4090-01-12)	4090-01-09	0.26 kg
		
<b>PRC-4090 Control Handset Cable</b>  Interface cable between the PRC-4090 Control Handset and the transceiver. Hotshoe secured with screws. ODU connector.	4090-01-12	0.15 kg
		
<b>PRC-4090 Control Handset Extender Cable - 6.0 metres</b>  Extension cable that securely fastens between the PRC-4090 Control Handset Cable (P/N 4090-01-12) and the PRC-4090 Transceiver (P/N 4090-00-01). - 6m	4090-01-13	0.25 kg
		
<b>PRC-4090 Handset Cradle</b>  Cradle to suit a PRC-4090 Control Handset (P/N 4090-01-09). Black.	4090-05-01	0.06 kg
		
<b>PRC-4090 Molle Mount</b>  Molle mount attaches to the rear of the PRC-4090 Control Handset Cradle for attachment to webbing. Designed to fit with standard webbing configurations.	4090-05-02	0.15 kg
		

### PRC-4090 Handset Cradle with Molle Strap

Strap attaches to the rear of the PRC-4090 Control Handset Cradle for attachment to webbing. Designed to fit with standard webbing configurations.

Part Number

Net Weight

4090-05-04

0.06 kg



### PRC-4090 Control Handset Docking Station

A dash mounted handset docking station. Configurable for both horizontal and vertical handset use.

#### Includes:

- Cradle (P/N 4090-05-01)
- Ext. Speaker (P/N 4090-01-33)
- RAM Mount (P/N PW-33334)
- Universal bracket Assembly (P/N MW-49049)
- USB interface (P/N SA-49053)

4090-05-03

0.55 kg



### Magnetic Car Mount

Control Handset magnetic mount for vehicle installations. Attaches to dashboard with choice of magnetic plate.

BCA40507

0.05 kg



### External Speaker

Rugged external speaker used in conjunction with the PRC-4090 Handset docking station.

4090-01-33

0.15 kg



### H-250 Tactical Handset

Standard H-250 tactical handset. Provides simplified transmit/receive functionality.

4090-01-14

0.35 kg





### PRC-4090 Li-ion Battery Pack 16Ah

Part Number

Net Weight

4090-03-05

2.50 kg

Lightweight Li-ion 16Ah battery pack. Compatible with PRC-4090 transceiver.



### PRC-4090 System Docking Station (SDS)

4090-05-00

1.80 kg

Specifically designed for base station and mobile installations, the System Docking station allows the PRC-4090 transceiver to operate at an increased power output of 150W. Allows for secondary handset functionality and ethernet connectivity.



### PRC-4090 Anti-Vibration Mounting Plate

4090-05-07

2.55 kg

Reduces vibration for vehicle mounted units. Over-centre latches attach the Anti-vibration mount to the System Docking Station.



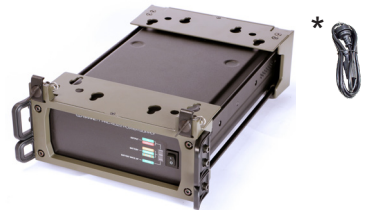
### PRC-4022 AC Power Supply

4090-06-01

4.60 kg

PRC-4022 power supply provides 24V AC power to the PRC-4090 transceiver System Docking Station. Plastic end-caps ensure a sturdy configuration when stacking transceiver and System Docking station. Securely fastens to System Docking Station via over centre latches.

\* (UK, European, AUS and US style. Selected at point of order)



### PRC-4090 Hotshoe to GPS/CW Cable

4090-01-31







0.06 kg






Hotshoe connection between top of PRC-4090 transceiver and a GPS or CW key connection.






Connects to external 7 pin GPS receiver or CW key.

Length 0.3 metres



	Part Number	Net Weight
<b>PRC-4090 Hotshoe to USB Cable</b>  Hotshoe interface between top of PRC-4090 transceiver and USB. Length 1.5 metres	4090-01-32	0.08 kg
		
<b>PRC-4090 Hotshoe to Unterminated</b>  Hotshoe interface for a PRC-4090 with an unterminated end. Length 1.5 metres	4090-01-34	0.08 kg
		
<b>3 Port Accessory Hub</b>  Hotshoe interface for a PRC-4090 with GPS, CW key and USB connectors. Length 60cm	4090-01-39	0.17 kg
		
<b>PRC-4090 Handset USB Interface</b>  USB interface to rear of the PRC-4090 Control Handset. Provides an access point for WiFi dongles and USB programming.  Attaches via hotshoe connector.	4090-01-27	0.02 kg
		
<b>USB to Ethernet Adapter</b>  USB adapter allowing ethernet and wireless network communications when using a Barrett PRC-4090 in manpack configuration.  Used in conjunction with PRC-4090 Handset USB Interface (P/N 4090-01-27)	BCA40505	0.02 kg
		
<b>Daypack - multicam</b>  The Day Pack provides a compact carry bag solution for the PRC-4090 and 2081 systems. Adaptable fastenings to provide secure positioning within bag. External MOLLE points for handset and accessory attachment.	4090-01-36	1.00 kg
		

	Part Number	Net Weight
<b>GPS/ESU receiver</b>  Combined receiver / antenna. <b>Includes:-</b> - 4 metres cable and connector.  For use with PRC-4090, Hotshoe to GPS/CW cable (P/N 4090-01-31) required.	4090-01-24	0.15 kg
		
<b>GPS/ESU extender cable 8m</b>  8m GPS Extension cable with bulkhead connector for extending Barrett external GPS/ESU.	4090-01-23	0.15 kg
		
<b>External Battery Adapter</b>  Used to connect the PRC-4090 Transceiver to a BB series battery via a Battery adaptor to BB series battery cable. - Black.	4090-03-11	0.03 kg
		
<b>BB-2590 Battery</b>  Lightweight Li-ion external battery able to power the PRC-4090 transceiver via the External Battery Adaptor and Battery adaptor to BB series battery cable.	BB-2590	1.35 kg
		
<b>Cable, Battery adaptor to BB series battery</b>  Cable specifically to connect a BB series battery to the External Battery adaptor.	4090-03-08	0.14 kg
		

	Part Number	Net Weight
<b>RF cable (Transceiver to SDS)</b>  Provides the RF connection between the PRC-4090 transceiver and the System Docking Station.	SA-49169	0.04 kg
		
<b>AC/DC Mains Adapter</b>  For use with PRC-4090 Battery Pack (P/N 4090-03-05) Includes: - Adapter - IEC mains cord (available in UK, European, AUS and US styles. Selected at point of order)	4090-03-04	0.50 kg
		
<b>Fan unit to suit PRC-4090 Transceiver</b>  Used to cool the transceiver. Automatically begins cooling the system when an internal temperature of 45 C is detected. Suggested for high duty cycle data transfer networks. - Black.	4090-01-11	0.2 kg
		
<b>CW key - lightweight tactical - with leg strap</b>  Lightweight brass CW key with leg strap and MIL-STD 6 pin connector.  For use with PRC-4090, Hotshoe to GPS/CW cable (P/N 4090-01-31) required.	2090-01-07	0.4 kg
		
<b>Lightweight tactical headset (under helmet)</b>  Lightweight tactical headset, suited to under helmet mounting, with amphenol 15 pins connector, speaker, microphone and clip on Press-To-Talk (PTT) button. Colour black.	4090-01-38	0.28 kg
		

	Part Number	Net Weight
Installation kit	BCA40004	0.2 kg

**Includes:-**

- Large selection of screws to accommodate most installations
- Cable ties
- Adhesive cable clips
- Screw driver attachment to suit screws for drill
- Rubber amalgamation tape
- Standard insulation tape
- Power cable lugs
- ATC fuse holder and 25 Amp fuses

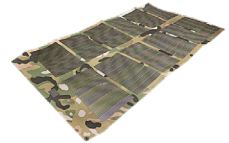


Rapid deployment solar panel - colour Multicam	2090-03-08	1.3 kg
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Solar power supply pack - for charging and operating the manpack transceiver.

**Includes:-**

- Compact lightweight tactical foldout solar panel 24 VDC @ 1.2 Amps normal
- Folds to 37 cm x 22 cm x 4 cm package, with lead and plug to suit PRC-4090 and PRC-2081+
- Solar panel bag - colour Multicam P/N 2090-01-31



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# **HF Antenna options**





	Part Number	Net Weight
<b>Rapid deployment wire dipole antenna - 150 W</b>	See below	2.1 kg
<p>Operates from 2 to 30 MHz - 150 W PEP max. Frequency markers attached to Kevlar radiators.</p> <p><b>Includes:-</b></p> <ul style="list-style-type: none"> <li>- Lanyards wound on reusable spools with throw and securing weights</li> <li>- 10 metres of RG-58AU coaxial cable, with water proof BNC and UHF coaxial connectors</li> <li>- Carry bag - colour black</li> </ul>		
With 10m RG-58 coaxial cable	2090-02-01	
With 20m RG-58 coaxial cable	2090-02-11	
<b>Rapid deployment broadband dipole antenna - 150 W</b>	See below	1.85 kg
<p>Operates from 2 to 30 MHz without adjustment - 150 W PEP max. Can be deployed as full length broadband dipole or in compact form. Manufactured with Kevlar radiators and UV resistant Dacron cords.</p> <p><b>Includes:-</b></p> <ul style="list-style-type: none"> <li>- Radiators and loads wound on reusable spools</li> <li>- Lanyards wound on reusable spools with throw and securing weights</li> <li>- RG-58AU coaxial cable, with water proof BNC and UHF coaxial connectors</li> <li>- Carry bag - colour black</li> </ul>		
With 10m RG-58 coaxial cable	2090-02-03	
With 20m RG-58 coaxial cable	2090-02-14	
<b>Rapid deployment mast</b>	2090-02-04	5.2 kg
<p>Portable 5 metres mast kit for tactical broadbands and dipoles - rapid deployment.</p> <p><b>Includes:-</b></p> <ul style="list-style-type: none"> <li>- 7 pieces mast</li> <li>- Guys on winders, earth pegs, guy pegs and hammer</li> <li>- Carry bag - colour black</li> </ul> <p><b>Note:-</b> Not recommended for use with base station antennas.</p>		



	Part Number	Net Weight
Long wire throw out antenna	4090-02-06	0.4 kg

For manpack operation with an adaptor to suit the whip stud on PRC-4090.

**Includes:-**

- Winding hub, antenna wire and throw weight
- Carry bag - colour black



Counterpoise earth kit - single wire	4090-02-09	0.2 kg
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Recommended to increase the efficiency of the PRC-4090 operating with whip antennas below 3MHz.

**Includes:-**

- Winding hub, wire earth radial and peg



Rapid deployment two wire broadband dipole antenna - 150 W PEP	2090-02-20	3.2 kg
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Operates from 2 to 30 MHz without adjustment – 150W PEP max. Provides omnidirectional coverage with strong near vertical radiation for NVIS communications and also good signal strength at lower angles for medium and longer range communications.

Rugged construction is rugged with Kevlar radiator wires and robust extruded-alloy balun housing.



**Compatible masts:**

- 10m Rapid deployment mast (P/N 2090-02-21)
- 10m air transportable Aluminium mast- nylon guys (P/N BC90205)
- Rapid Deployment Composite Mast 9.4m (P/N 2090-02-24)

**Includes:-**

- Throw Cord and securing weight wound on reusable spool - Carry bag - colour black
- 20 metres of RG-58AU coaxial cable, waterproof
- C32-21 UHF type coaxial connector
- UHF-BNC adaptor

**Note:-** Minimum recommended install height is 6m.

Collapsible Whip 3m - for PRC-4090	4090-02-10	0.20 kg
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Used to connect the whip antenna to the PRC-4090 transceiver. Threaded to Bayonet fitting. Adjustable angle.



### Gooseneck - for PRC-4090

Part Number	Net Weight
4090-02-11	0.20 kg

Used to connect the whip antenna to the PRC-4090 transceiver.  
Threaded to Bayonet fitting. Adjustable angle.



### Barrett 4049 Tactical Automatic Tuning Mobile HF Antenna

4049-00-11	5.5 kg
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#### Features:-

- Frequency range 1.5 to 30 MHz
- Fast tuning - typically less than 2 seconds
- Extremely robust Nylon-66 glass-filled casing
- Two piece MIL-SPEC whip and spring
- Immersible to 1 metre for 1 hour
- Meets MIL-STD 810G for shock, temperature, vibration and dust
- Built in GPS



**Note:-** See brochure for more detailed information.

Includes:-

#### Barrett 4049 Tactical Automatic Tuning Mobile HF Antenna

Standard spring - black

Interface cable 6 m - integral coaxial/control with connectors to suit PRC-4090 SDS

Fibreglass split whip top section and bottom section - Length 1610 mm

4049-00-01

2019-00-04

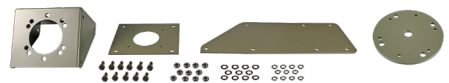
4019-00-02

2019-00-03

### Antenna Mounting Bracket Package

2090-02-22	3.5 kg
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Mounting bracket for mobile whip antenna or 4049 antenna.



### NVIS Whip

2019-01-10	1 kg
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The Barrett Near Vertical Incidence Skywave (NVIS) antenna whip is designed to enhance the short range communications efficiency of the Barrett 4049 Automatic Tuning Mobile HF Antenna.





The usable frequencies for NVIS communications are between 2 MHz and 15 MHz.

Length 4000 mm



#### Includes:-

- NVIS Gutter mount bracket P/N 4019-01-12
- Carry bag - colour black P/N BG-00011
- NVIS kit installation guide P/N BCM401910

	Part Number	Net Weight
<b>NVIS Magnetic base</b>  The NVIS Kit Magnetic Mounting Base is designed to provide fast and convenient mounting of the end of the NVIS antenna whip (P/N BCA401910). The three powerful magnet feet are covered with silicone rubber to prevent damage to painted surfaces.	2019-01-11	0.4 kg
		
<b>Includes:-</b> - NVIS kit installation guide P/N BCM401910		
<b>NVIS Gutter mount bracket</b>  Gutter mount bracket for NVIS whip.	2019-01-12	0.16 kg
		
<b>Includes:-</b> - NVIS kit installation guide P/N BCM401910		
<b>Fibreglass split whip top section and bottom section</b>	2019-00-03	0.55 kg
		
<b>Includes:-</b> - one middle and one top MIL-SPEC Whip sections (colour black) - Length 1610 mm		
<b>Standard spring black</b>  Standard spring - colour black.	2019-00-04	0.7 kg
		
<b>Antenna control cable extension adapter kit to suit ATU inter-face cables</b>	BCA401914	0.2 kg
		
<b>Includes:-</b> - 7 Way Female/Male Mil connector adapter - SO239 UHF Female/Female coaxial adapter		
<b>Control Cable to 2050 Transceiver Adaptor</b>	BCA201915	0.2 kg
		
<b>Compatible with 4019-00-02, 4019-00-05 and 4019-00-07 control cable connectors. Suits 2050 transceiver.</b>		

### 4047 Tactical HF ATU base antenna

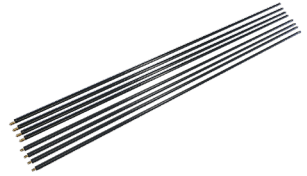
Part Number

Net Weight

4047-00-01

7 kg

The Barrett 4047 is a compact base antenna solution for installations in areas with space limitations where normal wire broadband antennas are not practical. Full Coverage from 2~30MHz. Omni directional Radiation, Can be installed on wide range of masts & poles  
Recommended height 6 ~ 10 metres  
Max installed length 5.7 metres  
Compact packaging for Air Shipment  
Built in GPS



#### Includes:-

- 30 metres of integral RF control cable and connectors P/N 4017-01-01

**Note:-** See brochure for more detailed information

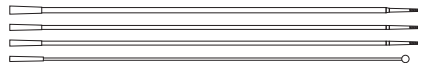
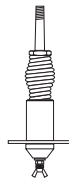
### Barrett 4045 Tactical Automatic HF Antenna Tuner with mobile whip and base package

4045-00-11

11.1 kg

#### Features:-

Frequency Range: 1.5 - 30MHz tunable  
Power Rating: 150 Watts PEP  
Polarisation: Vertical  
Memory tune in <100ms,  
Non-Memory tune in <1.5 sec  
Built in GPS  
ALE compatible  
Frequency-hopping compatible  
MIL-STD-810F Waterproof, Vibration, and Dust  
Base Mounting: NATO 6 or 3 hole pattern /  
USA 4 hole pattern



#### Includes:-

Barrett 4045 Tactical Automatic HF Antenna Tuner

4045-00-01

Interface cable 6 m - integral coaxial/control with connectors to suit 4090 SDS

4019-00-02

Military HF antenna and base sourced from Trival Antene

AP-4/M

Antenna whip sections overall length 4.8m

AD-4/1-4

Anti-Vibration mount for 4045

BC404502

	Part Number	Net Weight
Barrett 4045 Tactical Automatic HF Antenna Tuner	4045-00-01	3.2 kg

Suits land mobile, base station and marine installations.

### Features:-

Frequency Range: 1.5 - 30MHz tunable  
 Power Rating: 150 Watts PEP  
 Memory tune in <100ms,  
 Non-Memory tune in <1.5 sec  
 ALE compatible  
 Frequency-hopping compatible  
 MIL-STD-810F Waterproof, Vibration, and Dust



**Note:-** See brochure for more detailed information.

Anti-Vibration mount for 4045	BC404502	1 kg
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For mounting a Barrett 4045 Tactical Automatic HF Antenna Tuner into an armoured or other shock heavy vehicle



912 Multi-wire broadband dipole (2 to 30 MHz) - 150 W PEP stainless steel	2090-02-10	N/A
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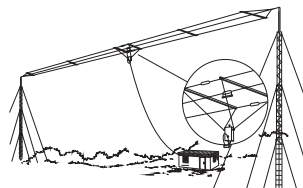
27 metres stainless steel, fibreglass spreaders and encapsulated baluns and loads.

### Includes:-

- 30 metres of RG-58AU coaxial cable with waterproof C32-21 type UHF coaxial connectors.

### Compatible masts:-

- 10m Rapid deployment mast (P/N 2090-02-21)
- 10m air transportable Aluminium mast- nylon guys (P/N BC90205)



**Note:-** Masts supplied separately.

Lightning arrestor kit 400 W	2090-05-09	2.05 kg
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### Includes:-

- 1 x Surge arrestor with PL259/UHF (female) connectors
- 1 x 5 metres length of RG58 Coaxial cable with UHF (male)
- 1 x Steel dolly
- 1 x 3 metres earth braid
- 1 x Brass cable clamp assembly
- 1 x Copper plated steel earth rod



### Grounding kit

Part Number

Net Weight

BCA90056

N/A

#### Includes:-

- 1 x Steel dolly
- 1 x 3 metres earth braid
- 1 x Brass cable clamp assembly
- 1 x Copper plated steel earth rod

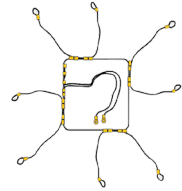


### Radial earth mat / ground plane

BCA20026

N/A

Counterpoise to use with whip in fixed high power base station applications 12 x 10 metres radials.



### 30 metres Coaxial cable RG-58

BCA90047

1.20 kg

30 metres of RG-58 coaxial cable with high quality "UHF" type connectors.



### Coaxial cable RG-213 (per metre)

BCA90045

0.15 kg

High quality RG-213 coaxial cable.



### Coaxial connector - UHF - Suit RG-213

BCA90046

0.20 kg

High quality waterproof "UHF" type coaxial connector - to suit RG-213 coaxial cable above.



Halyard and pulley kit suit 912 broadband antennas

Part Number

Net Weight

2090-02-16

1.15 kg

- Includes:-**
- 2 galvanised pulleys
  - 100 m of standard nylon halyard



Offset bracket and pulley

2090-02-17

2.2 kg

To facilitate mounting of 912 broadbands or 915 wire dipoles in an inverted "V" configuration on either 902 winch-up towers or 902 telescopic masts.  
Pulley to suit 4 mm halyard.





# Masts



Part Number	Net Weight
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## 10 Metre Mast - With Nylon Guys for Ground Mounting

BC90205	27 kg
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This air transportable mast consists of 5 x 2m aluminium sections inserted on top of each other with a 1.5 m antenna support outrigger on the top section. There are 3 sets of 2 guy ropes and one back-stay guy rope to counter the weight of the antenna. Pegs, shackles and pins for the base plate are supplied.

### Compatible Barrett antennas

912 HF Single-wire broadband dipole 150W

P/N: BC91201

912 HF Multi-wire broadband dipole 150W

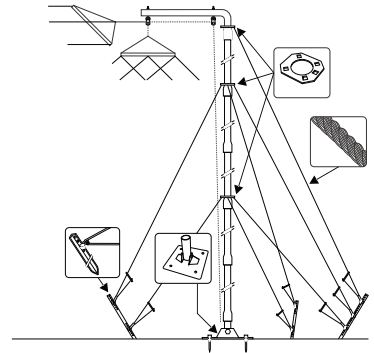
P/N: BC91200

912 HF Multi-wire broadband dipole 500W

P/N: BC91202

4047 Automatic tuning horizontal dipole 150W

P/N BC404701



### Specifications

Packed dimensions: 2000mm x 200mm x 350mm

Wind rating: 120 kph

## 10 Metre Mast - With Nylon Guys for Flat Roof Mounting

BC90205FR	27 kg
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This air transportable mast consists of 5 x 2m aluminium sections inserted on top of each other with a 1.5 m antenna support outrigger on the top section. There are 3 sets of 2 guy ropes and one back-stay guy rope to counter the weight of the antenna. Cleats, shackles and masonry anchors are supplied.

### Compatible Barrett antennas

912 HF Single-wire broadband dipole 150W

P/N: BC91201

912 HF Multi-wire broadband dipole 150W

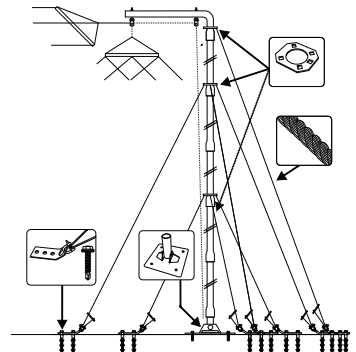
P/N: BC91200

912 HF Multi-wire broadband dipole 500W

P/N: BC91202

4047 Automatic tuning horizontal dipole 150W

P/N BC404701



### Specifications

Packed dimensions: 2000mm x 200mm x 350mm

Wind rating: 120 kph

## 10 Metre Mast - With Nylon Guys for Pitched Roof Mounting

**Part Number**
**Net Weight**
**BC90205PR**
**27 kg**

This air transportable mast consists of 5 x 2m aluminium sections inserted on top of each other with a 1.5 m antenna support outrigger on the top section. There are 3 sets of 2 guy ropes and one back-stay guy rope to counter the weight of the antenna. Cleats, shackles and screws appropriate for tin roofs are supplied.

### Compatible Barrett antennas

912 HF Single-wire broadband dipole 150W

P/N: BC91201

912 HF Multi-wire broadband dipole 150W

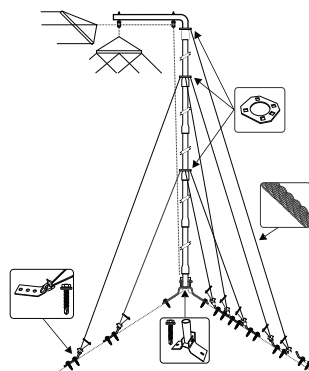
P/N: BC91200

912 HF Multi-wire broadband dipole 500W

P/N: BC91202

4047 Automatic tuning horizontal dipole 150W

P/N BC404701



### Specifications

Packed dimensions: 2000mm x 200mm x 350mm

Wind rating: 120 kph

## 10 Metre Mast - With Stainless steel Guys for Ground Mounting

**BC90206**
**32 kg**

This air transportable mast consists of 5 x 2m aluminium sections inserted on top of each other with a 1.5 m antenna support outrigger on the top section. There are 3 sets of 2 stainless steel guywires and one back-stay guywire to counter the weight of the antenna. Pegs, shackles and pins for the base plate are supplied.

### Compatible Barrett antennas

912 HF Single-wire broadband dipole 150W

P/N: BC91201

912 HF Multi-wire broadband dipole 150W

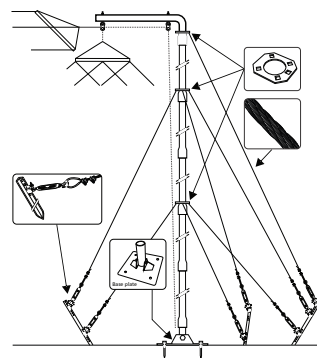
P/N: BC91200

912 HF Multi-wire broadband dipole 500W

P/N: BC91202

4047 Automatic tuning horizontal dipole 150W

P/N BC404701



### Specifications

Packed dimensions: 2000mm x 200mm x 350mm

Wind rating: 120 kph

Part Number	Net Weight
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### 10 Metre Mast - With Stainless steel Guys for Flat Roof Mounting

**BC90206FR**
**32 kg**

This air transportable mast consists of 5 x 2m aluminium sections inserted on top of each other with a 1.5 m antenna support outrigger on the top section. There are 3 sets of 2 stainless steel guywires and one back-stay guywire to counter the weight of the antenna. Cleats, shackles and masonry anchors are supplied.

#### Compatible Barrett antennas

912 HF Single-wire broadband dipole 150W

P/N: BC91201

912 HF Multi-wire broadband dipole 150W

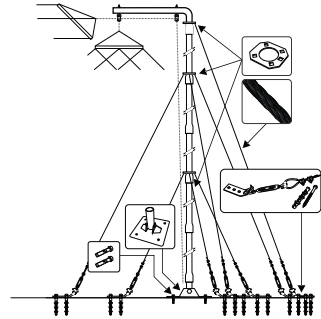
P/N: BC91200

912 HF Multi-wire broadband dipole 500W

P/N: BC91202

4047 Automatic tuning horizontal dipole 150W

P/N BC404701



#### Specifications

Packed dimensions: 2000mm x 200mm x 350mm

Wind rating: 120 kph

### 10 Metre Mast - With Stainless steel Guys for Pitched Roof Mounting

**BC90206PR**
**27 kg**

This air transportable mast consists of 5 x 2m aluminium sections inserted on top of each other with a 1.5 m antenna support outrigger on the top section. There are 3 sets of 2 stainless steel guy wires and one back-stay guy rope to counter the weight of the antenna. Cleats, shackles and screws appropriate for tin roofs are supplied.

#### Compatible Barrett antennas

912 HF Single-wire broadband dipole 150W

P/N: BC91201

912 HF Multi-wire broadband dipole 150W

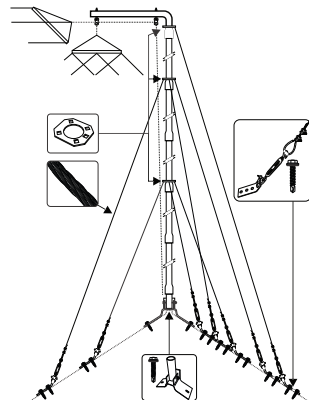
P/N: BC91200

912 HF Multi-wire broadband dipole 500W

P/N: BC91202

4047 Automatic tuning horizontal dipole 150W

P/N BC404701



#### Specifications

Packed dimensions: 2000mm x 200mm x 350mm

Wind rating: 120 kph

## 6 Metre Mast - With Nylon Guys for Ground Mounting

**Part Number**
**Net Weight**
**BC90209**
**20 kg**

This air transportable mast consists of 3 x 2m aluminium sections inserted on top of each other with a 0.5m, 50mm diameter vertical top section. There are 2 sets of 3 rope guys. Pegs, shackles and pins for the base plate are supplied.

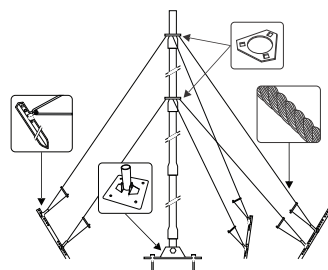
### Compatible Barrett antenna

4047 Automatic tuning horizontal dipole 150W  
P/N BC404701

### Specifications

Packed dimensions: 2000mm x 200mm x 200mm

Wind rating: 120 kph



## 6 Metre Mast - With Nylon Guys for Flat Roof Mounting

**BC90209FR**
**20 kg**

This air transportable mast consists of 3 x 2m aluminium sections inserted on top of each other with a 0.5m, 50mm diameter vertical top section. There are 2 sets of 3 rope guys. Cleats, shackles and masonry anchors are supplied.

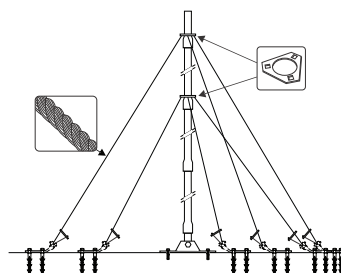
### Compatible Barrett antenna

4047 Automatic tuning horizontal dipole 150W  
P/N BC404701

### Specifications

Packed dimensions: 2000mm x 200mm x 200mm

Wind rating: 120 kph



## 6 Metre Mast - With Nylon Guys for Pitched Roof Mounting

**BC90209PR**
**20 kg**

This air transportable mast consists of 3 x 2m aluminium sections inserted on top of each other with a 0.5m, 50mm diameter vertical top section. There are 2 sets of 3 rope guys. Cleats, shackles and screws appropriate for tin roofs are supplied.

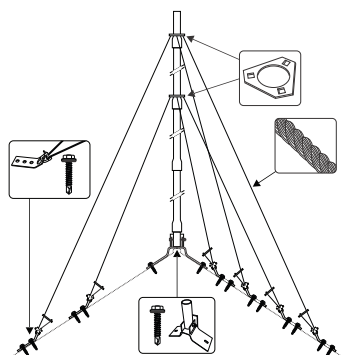
### Compatible Barrett antenna

4047 Automatic tuning horizontal dipole 150W  
P/N BC404701

### Specifications

Packed dimensions: 2000mm x 200mm x 200mm

Wind rating: 120 kph

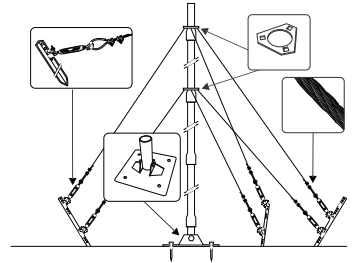


Part Number	Net Weight
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## 6 Metre Mast - With Stainless Steel Guys for Ground Mounting

BC90208	24 kg
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This air transportable mast consists of 3 x 2m aluminium sections inserted on top of each other with a 0.5m, 50mm diameter vertical top section. There are 2 sets of 3 stainless steel wire guys. Pegs, shackles and pins for the base plate are supplied.



### Compatible Barrett antenna

4047 Automatic tuning horizontal dipole 150W  
P/N BC404701

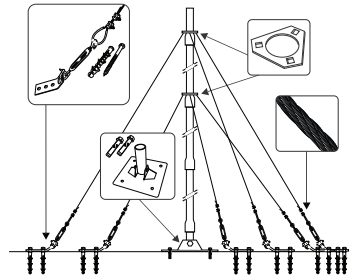
### Specifications

Packed dimensions: 2000mm x 200mm x 200mm  
Wind rating: 120 kph

## 6 Metre Mast - With Stainless Steel Guys for Flat Roof Mounting

BC90208FR	24 kg
-----------	-------

This air transportable mast consists of 3 x 2m aluminium sections inserted on top of each other with a 0.5m, 50mm diameter vertical top section. There are 2 sets of 3 stainless steel wire guys. Cleats, shackles and masonry anchors are supplied.



### Compatible Barrett antenna

4047 Automatic tuning horizontal dipole 150W  
P/N BC404701

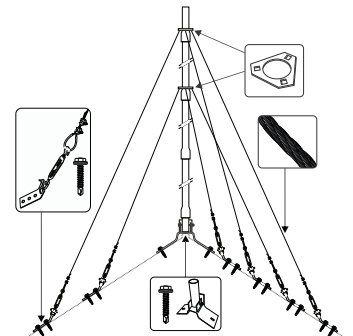
### Specifications

Packed dimensions: 2000mm x 200mm x 200mm  
Wind rating: 120 kph

## 6 Metre Mast - With Stainless Steel Guys for Pitched Roof Mounting

BC90208PR	24 kg
-----------	-------

This air transportable mast consists of 3 x 2m aluminium sections inserted on top of each other with a 0.5m, 50mm diameter vertical top section. There are 2 sets of 3 stainless steel wire guys. Cleats, shackles and screws appropriate for tin roofs are supplied.



### Compatible Barrett antenna

4047 Automatic tuning horizontal dipole 150W  
P/N BC404701

### Specifications

Packed dimensions: 2000mm x 200mm x 200mm  
Wind rating: 120 kph

**10 Metre Rapid Deployment Mast**
**Part Number**
**Net Weight**
**2090-02-21**
**24 kg**

This rapid deployment air transportable 10m mast consists of 2.1 metre aluminium sections with collared end joints, inserted on top of each other. Lower heights are achievable by using fewer sections. A tubular horizontal mounting arm, with pulleys, attaches to the top of the mast to enable large wire antennas to be raised in place once the mast is erected. The supplied 1 metre vertical extension can be added at the top of the mast to increase the maximum height to 11 metres. This extension enables more than one antenna to be easily mounted.

**Compatible Barrett antennas**

HF 912 Single-wire broadband dipole 150 W

P/N: BC91201

HF 912 Multi-wire broadband dipole 150 W

P/N: BC91200

HF 912 Multi-wire broadband dipole 500 W

P/N: BC91201

4047 Automatic tuning horizontal dipole 150W

P/N BC404701

(HF Rapid deployment wire dipole 150W

P/N: 2090-02-01

HF Rapid deployment broadband dipole 150 W

P/N: 2090-02-03

HF Rapid deployment two wire broadband dipole

150 W P/N: 2090-02-20

VHF Tactical rapid deployment antenna

P/N: 2086-02-10

VHF Tactical rapid deployment antenna

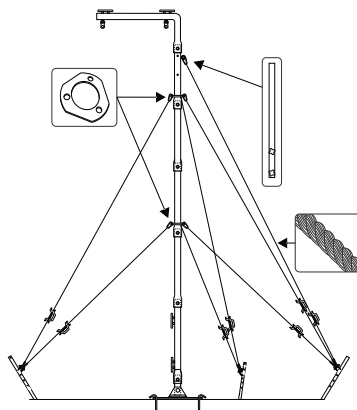
P/N: 2086-02-10

VHF 30 to 108 MHz elevated wideband antenna

P/N: 2083-02-03

VHF 30 to 108 MHz centre-fed whip antenna

P/N: 2083-02-01





**5 Metre Rapid Deployment Mast**
**Part Number**
**Net Weight**
**2090-02-04**
**5.8 kg**

The Barrett Rapid deployment mast is a lightweight, transportable pole construction kit for use as a temporary 5m tower solution in the field.

**Compatible Barrett antennas**

HF-Rapid deployment wire dipole antenna 150 W

P/N: 2090-02-01

HF-Rapid deployment broadband dipole antenna

150 W P/N: 2090-02-03

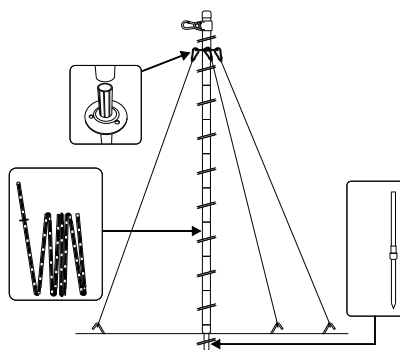
HF-Long wire throw out antenna P/N: 2090-02-06

**Specifications**

Mast material: 25mm round aluminium tube, NATO Green.

Packed dimensions: L-720mm x W-220mm x  
H-130mm

Packed Weight: 5.8kg


**10 Metre Rapid Deployment Composite Mast**
**2090-02-24**
**8.6 kg**

This rapid deployment mast consists of 7 sections (including the offset bracket) of composite tube which extend telescopically with locking levers. The mast can be erected to any desired height. The last extension at the top of the mast (thinnest section) is only suitable for very light head loads.

Guy ropes are supplied on winding spools to facilitate rapid deployment of the mast. The mast is supplied with all components required for deployment. The complete mast kit is contained in a rugged canvas carry-bag. Please note a halyard for raising an antenna is not included.

**Compatible Barrett antennas**

- VHF 30 to 108 MHz elevated wideband VHF antenna

P/N: 2083-02-03

- HF-Rapid deployment wire dipole antenna 150 W

P/N: 2090-02-01

- HF-Rapid deployment broadband dipole antenna 150W

P/N: 2090-02-03

- HF-Long wire throw out antenna P/N: 2090-02-06

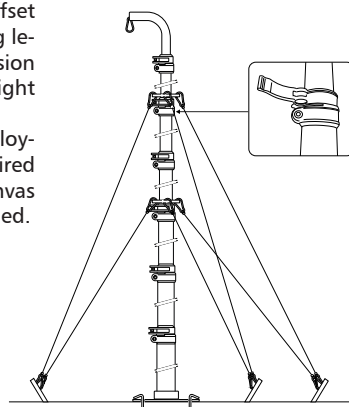
- HF Rapid deployment two wire broadband dipole 150W

P/N: 2090-02-20

**Specifications**

Retracted eight: 1960mm,

Mast material: Composite telescopic tube, Black.



Part Number	Net Weight
-------------	------------

Lattice Tower ready kit - H:12.7 metres Guyed	BC90216	100 kg
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Tower Ready Kit - 12.7m guyed steel lattice mast.

**Includes:-**

- 8 X Tower Mounting Platform Kit / D: 260 / H: 1500 (4 X RV10080)
- 1 X Tower Mounting Top Kit (1 X RV10079)
- 1 X Tower Mounting Base Kit (1 X RV10078)
- 170m Steel Rope 3mm Hot-Dip Galvanized, Din 3055, Construction 6x7
- 12 X Turnbuckle M8 (Eye/Eye)
- 72 X Rope Clamp 3 Mm
- 12 X Shackle M10 (10mm)
- 6 X Concrete Anchor 12m X 200mm
- 12 X Thimble 4-5mm

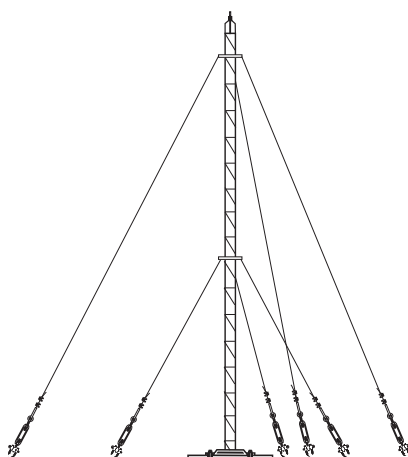


**Note:-**

- Due to the volumetric shipping nature of masts and cost of airfreight we strongly recommend antenna masts are sourced locally at destination.
- Mast depicted is a representation only.

**Compatible Barrett antennas**

All Barrett antennas are compatible with this mast.



# Interoperability



## 2063 HF-VHF Crossgate

Part Number

Net Weight

2063-00-01

1.2 kg

Enables interoperability between Barrett HF and Barrett VHF communication systems. Allows deployed troops to communicate directly with far distant command and control centres. Reduces delays in communicating time critical information.

### Includes:-

HF and VHF cables



## 2064 Radio Voice Bridge

2064-10-10

1.0 kg

Voice bridge between Barrett and third-party radios.

### Includes:-

- Tactical Voice Bridge
- H-250 type handset
- Radio Cables (see below)
- User Manual



### Cables to be selected at point of order:

- 2064 to 25 way serial connector 4050 HF SDR Transceiver cable, 1m (2064-10-11)
- 2064 to H250 connector for PRC-2080+ VHF Handheld Transceiver and PRC-4090 HF SDR Transceiver, 1m (2064-10-12)
- 2064 to unterminated cable for OEM radio, 1m (2064-10-13)
- 2064 to 25 way serial connector 4050 HF SDR Transceiver cable, 5m (2064-10-14)
- 2064 to H250 connector for PRC-2080+ VHF Handheld Transceiver and PRC-4090 HF SDR Transceiver, 5m (2064-10-15)
- 2064 to unterminated cable for OEM radio, 5m (2064-10-16)



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# Transportable Systems





	Part Number	Net Weight
PRC-4075 Tactical 500 Watt HF Amplifier	4090-08-05	N/A

The Barrett 500W Tactical HF Amplifier is a compact easily deployed communications solution developed for tactical base station applications. The amplifier comes with our 4075 linear amplifier and power supply. and interconnecting cables all pre connected in rugged 19" 5RU rack mount cases. Note: this system is only powered by a mains power connection.



**Features:-**

- AC Mains power
- Optional HF data transmission
- Multiple voice and data security options
- Stackable transportable and base station deployable

## PRC-4090 HF Rapid Field Deployment System (RFDS)

Part Number

Net Weight

4090-08-01

N/A

The Tactical PRC-4090 RFDS base unit is a rapidly deployable HF option for field personnel with the unit being operational within minutes. Its highly ruggedized exterior allows this system to be transported over rough terrain with no damage being taken by the interior equipment. The front and rear lids allow for quick and efficient access to the system making it suitable for field or station requirements.



### Features:-

- Field operational in minutes
- AC Mains and/or DC power
- Internal battery with on board charging
- Optional HF data transmission
- Multiple voice and data security options
- Stackable transportable, base station and vehicle/field deployable

## PRC-2080+ VHF Rapid Field Deployment System (RFDS)

2089-08-01

N/A

The Tactical PRC-2080+ RFDS base unit is a rapidly deployable VHF option for field personnel with the unit being operational within minutes. Its highly ruggedized exterior allows this system to be transported over rough terrain with no damage being taken by the interior equipment. The front and rear lids allow for quick and efficient access to the system making it suitable for field or station requirements.



### Features:-

- Field operational in minutes
- AC Mains and/or DC power
- Internal battery with on board charging
- Optional VHF data transmission
- Multiple voice and data security options
- Stackable transportable, base station and vehicle/field deployable

## PRC-4075 Tactical 500 Watt HF Transmitter

4090-08-10

N/A

The Barrett 500W Tactical HF Transmitter is a compact easily deployed communications solution developed for tactical base station applications. The transmitter comes as a complete package with our PRC-4090 exciter, power supply, 4075 linear amplifier, and interconnecting cables all pre connected in rugged 19" 5RU rack mount cases.

### Features:-

- AC Mains power
- Optional HF data transmission
- Multiple voice and data security options
- Stackable transportable and base station deployable



# **VHF Tactical Packages**



	Part Number	Net Weight
PRC-2080+ 5 W VHF Tactical handheld package	2085-00-10	3.55 kg

### Standard features:-

- 10 preset - 25 kHz (2304 Channels)
- 150 Hz tone squelch in legacy mode (AFF) (STANAG 4204, PRC-77 compatible)
- Advanced module diagnostics & error conditions
- Meets MIL-STD 810G for shock, temperature, vibration, dust and immersible to 1 m for 1 hr

### Optional Features:-

- ECCM parameters
- COMSEC - Encrypted fixed frequency
- TRANSEC - Digital encryption, Frequency hopping, free channel search

For additional options and accessories, please see relevant section detail.

**Note:-** See brochure for more detailed information.



### Includes:-

- 1 PRC-2080+ VHF Transceiver
- 2 Rechargeable 6.5 Ah Li-Ion battery pack
- 3 Tactical handset with keypad
- 4 5 W Gooseneck
- 5 Collapsible whip 1.8 metres
- 6 Tape whip antenna
- 7 Webbing pouch - Multicam
- 8 Battery charger with adaptor and plate
- 9 Barrett PRC-2080+ operation manual

2085-00-00
2085-03-05
2080-01-11
2085-02-01
2085-02-02
2085-02-03
2080-01-13
2085-03-09
2085-60-10

	Part Number	Net Weight
PRC-2081+ 25 W VHF Tactical manpack package	2086-00-10	10.9 kg

### Standard features:-

- 10 preset - 25 kHz (2304 Channels)
- 150 Hz tone squelch in legacy mode (AFF) (STANAG 4204, PRC-77 compatible)
- Advanced module diagnostics & error conditions
- Meets MIL-STD 810G for shock, temperature, vibration, dust and immersible to 1 m for 1 hr

### Optional Features:-

- ECCM parameters
- COMSEC - Encrypted fixed frequency
- TRANSEC - Digital encryption, Frequency hopping, free channel search

For additional options and accessories, please see relevant section detail.

**Note:-** See brochure for more detailed information.



### Includes:-

1	PRC-2080+ VHF Transceiver	2085-00-00	
2	Tactical handset with keypad	2080-01-11	
3	VHF 25 Watt docking station	2086-00-00	
4	Battery pack 14.4 V 10 Ah Li-Ion	2090-03-05	
5	Daypack - colour Multicam	4090-01-36	
6	25 W Gooseneck	2086-02-01	
7	Collapsible whip 1.8 metres	2085-02-02	
8	Tape whip antenna	2085-02-03	
9	Coax cable between transceiver and docking station	2087-00-05	
10	Universal AC/DC adaptor	2090-03-01	
11	Barrett PRC-2080+ operation manual	2085-60-10	

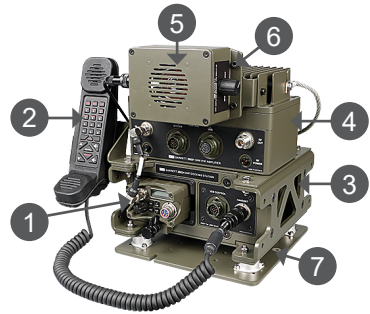
	Part Number	Net Weight
PRC-2082+ 50 W VHF Tactical mobile package	2087-00-10	12.8 kg

### Standard features:-

- 10 preset - 25 kHz (2304 Channels)
- 150 Hz tone squelch in legacy mode (AFF) (STANAG 4204, PRC-77 compatible)
- Advanced module diagnostics & error conditions
- Meets MIL-STD 810G for shock, temperature, vibration & dust

### Optional Features:-

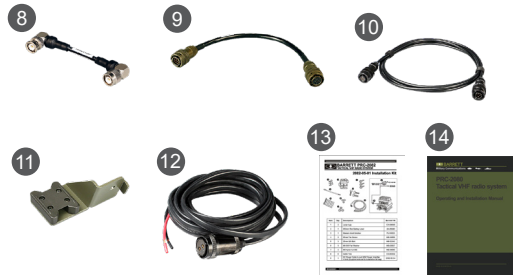
- ECCM parameters
- COMSEC - Encrypted fixed frequency
- TRANSEC - Digital encryption, Frequency hopping, free channel search



For additional options and accessories, please see relevant section detail.

### Notes:-

- See brochure for more detailed information.
- Suitable antenna to be ordered separately.



### Includes:-

1	PRC-2080+ VHF Transceiver	2085-00-00	
2	Tactical handset with keypad	2080-01-11	
3	Vehicle docking station for docking of PRC-2080+ Transceiver	2087-00-01	
4	50 W VHF Amplifier	2087-00-02	
5	Rugged external mount speaker	2082-01-33	
6	VHF Speaker mounting bracket	2082-01-34	
7	Anti-vibration mount	2082-00-08	
8	Coax cable between transceiver and VHF amplifier	2087-00-05	
9	Interconnecting control cable 0.3m between 50 W VHF amplifier and vehicle docking station	2082-00-03	
10	Speaker cable	2082-10-32	
11	VHF Handset mounting bracket	2082-01-32	
12	DC Power cable suit 50 W amplifier	2090-03-06	
13	Installation kit	2082-05-01	
14	Barrett PRC-2080+ operation manual	2085-60-10	

	Part Number	Net Weight
PRC-2084+ 50 W VHF Tactical base package	2089-00-10	17.3 kg

### Standard features:-

- 10 preset - 25 kHz (2304 Channels)
- 150 Hz tone squelch in legacy mode (AFF) (STANAG 4204, PRC-77 compatible)
- Advanced module diagnostics & error conditions
- Meets MIL-STD 810G for shock, temperature, vibration & dust

### Optional Features:-

- ECCM parameters
- COMSEC - Encrypted fixed frequency
- TRANSEC - Digital encryption, Frequency hopping, free channel search

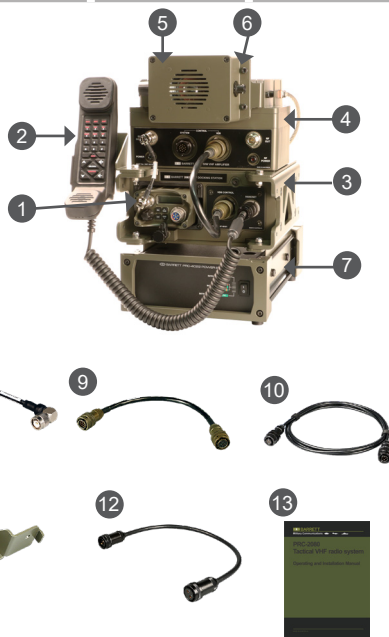
For additional options and accessories, please see relevant section detail.

### Notes:-

- See brochure for more detailed information.
- Suitable antenna to be ordered separately.

### Includes:-

1	PRC-2080+ VHF Transceiver	2085-00-00	
2	Tactical handset with keypad	2080-01-11	
3	Vehicle docking station for docking of PRC-2080+ Transceiver	2087-00-01	
4	50 W VHF Amplifier	2087-00-02	
5	Rugged external mount speaker	2082-01-33	
6	VHF Speaker mounting bracket	2082-01-34	
7	AC power supply module - 13.8 VDC	2089-01-00	
8	Coax cable between transceiver and VHF amplifier	2087-00-05	
9	Interconnecting control cable 0.3m between 50 W VHF amplifier and vehicle docking station	2082-00-03	
10	Speaker cable	2082-10-32	
11	VHF Handset mounting bracket	2082-01-32	
12	Vehicle docking station to power supply connecting cable	2089-06-06	
13	Barrett PRC-2080+ operation manual	2085-60-10	





Part Number	Net Weight
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PRC-2083+ 50 W VHF Tactical re-broadcast system	2088-00-10	33.5 kg
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### Standard features:-

- 10 preset - 25 kHz (2304 Channels)
- 150 Hz tone squelch in legacy mode (AFF) (STANAG 4204, PRC-77 compatible)
- Advanced module diagnostics & error conditions

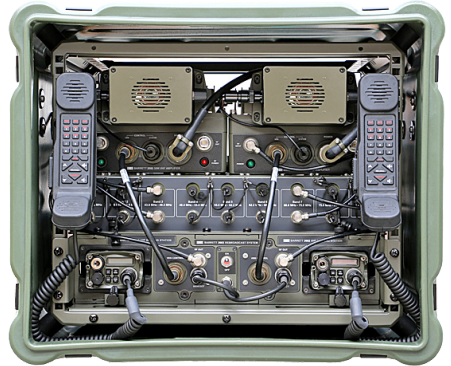
### Optional Features:-

- ECCM parameters
- COMSEC - Encrypted fixed frequency
- TRANSEC - Digital encryption, Frequency hopping, free channel search

For additional options and accessories, please see relevant section detail.

### Notes:-

- Suitable antenna and power supply (if required) to be ordered separately.
- If fitted to a vehicle will require 2 x DC Power cable P/N 2082-00-04
- See brochure for more detailed information.



### Includes:-

PRC-2080+ VHF Transceiver x 2	2085-00-00	
Combined vehicle docking station for PRC-2080+ Transceiver	2088-00-21	
50 W VHF Amplifier x 2	2087-00-02	
Tactical handset with keypad x 2	2080-01-11	
VHF Speaker mounting bracket x 2	2082-01-34	
Interconnecting control cable 0.3m between 50 W VHF amplifier and vehicle docking station x 2	2082-00-03	
Coax cable 0.6 m BNC to BNC vehicle docking station to 50 W VHF amplifier x 2	SA-20832	
Coax cable 0.55 m TNC to BNC vehicle docking station to 50 W VHF amplifier x 2	SA-20879	
Bandpass filter panel	2088-00-01	
Barrett PRC-2080+ operation manual	2085-60-10	
Transportation casing	2083-00-03	
Rugged external mount speaker x 2	2082-01-33	
Cable speaker to PRC-2082+ Transceiver x 2	2082-10-32	

	Part Number	Net Weight
PRC-2080+ VHF Tactical transceiver	2085-00-00	1.1 kg

**Standard features:-**

- 10 preset - 25 kHz (2304 Channels)
- 150 Hz tone squelch in legacy mode (AFF) (STANAG 4204, PRC-77 compatible)
- Advanced module diagnostics & error conditions
- Meets MIL-STD 810G for shock, temperature, vibration & dust

**Optional Features:-**

- ECCM parameters
- COMSEC - Encrypted fixed frequency
- TRANSEC - Digital encryption, Frequency hopping, free channel search



For additional options and accessories, please see relevant section detail.

**Notes:-**

- See brochure for more detailed information.

**Includes:-**

PRC-2080+ VHF Transceiver	2085-00-00	
Barrett PRC-2080+ operation manual	2085-60-10	

# VHF Hardware and Software Options



	Part Number	Net Weight
Security options	2080-01-02	N/A

**Security options includes:-**

- Analogue Voice - Fixed Frequency (fitted as standard to all PRC-2080+’s)
- Digital Unencrypted Data - Fixed Frequency (fitted as standard to all PRC-2080+’s)
- Digital Encrypted Voice - Fixed Frequency (DEFF)
- Digital Encrypted Voice - Free Channel Search (DEFCs)
- Digital Encrypted Data - Fixed Frequency



Frequency hopping options	2080-01-01	N/A
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**Frequency hopping options includes:-**

- Analogue Voice - Fixed Frequency ( fitted as standard to all PRC-2080+’s)
- Digital Unencrypted Data - Fixed Frequency (fitted as standard to all PRC-2080+’s)
- Digital Encrypted Voice - Fixed Frequency (DEFF)
- Digital Encrypted Voice - Frequency Hopping (DEFH)
- Digital Encrypted Voice - Free Channel Search (DEFCs)
- Digital Encrypted Data - Fixed Frequency
- Digital Encrypted Data - Frequency Hopping



**Note:-** This option requires an Australian Defence Export Licence.

Programming Software Package	2085-04-02	0.2 kg
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Microsoft Windows compatible (Windows XP or later) programming software package to suit all PRC-2080+’s.

**Includes:-**

- Programming cable P/N 2085-04-04
- Installation software P/N BCUSB20801
- USB to serial adaptor P/N BCA92318



	Part Number	Net Weight
<div>Fill gun programming unit and programming software</div> <div>           Fill gun programming unit to fill 2080+ VHF Transceiver with programming data. Can be destroyed for security reasons in the field.         </div> <div> <b>Includes:-</b> <ul style="list-style-type: none"> <li>- Bench programming unit, with USB connector P/N 2080-04-10</li> <li>- Programming software P/N BCUSB20801</li> </ul> </div>	2085-04-11	0.6 kg
		
<div>Fill gun</div> <div>           Fill gun to fill 2080+ VHF Transceiver with programming data. Can be destroyed for security reasons in the field.         </div>	2080-04-05	0.1 kg
		
<div>Fill gun and fill gun programming unit package</div> <div>           Fill gun to fill 2080+ VHF Transceiver with programming data. Can be destroyed for security reasons in the field.         </div> <div> <b>Includes:-</b> <ul style="list-style-type: none"> <li>- Fill gun P/N 2080-04-05</li> <li>- Bench programming unit, with USB connector P/N 2080-04-10</li> <li>- Programming software P/N BCUSB20801</li> </ul> </div>	2085-04-10	0.8 kg
		

# **VHF Data options**





	Part Number	Net Weight
Messaging and data transfer software	2080-01-09	0.2 kg

Enables transmission of data between PRC-2080+ VHF Transceivers.

**Includes:-**

- USB messaging and data transfer software  
P/N 2080-04-06
- Serial data cable P/N 2085-04-04
- USB to serial adaptor P/N BCA92318



Cloning cable	2080-04-04	0.15 kg
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Allows cloning of channel settings between PRC -2080+'s.



Serial data cable	2085-04-04	0.1 kg
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Serial data cable to enable data operation.



## Barrett PRC-2068 VHF Tactical In-line Voice and Position Encrypter

Part Number

Net Weight

2068-00-01

0.5 kg

The Barrett range of In-Line Voice and Position Encryptors are high performance, digital, in-line secure voice modems with built-in GPS. They are suitable for first responders, security agencies, governmental and paramilitary users with voice privacy and asset tracking. Easily integrating with VHF radio transceivers via the audio or accessory interface, the units are suitable for use with hand-held, man-pack and vehicular radio equipment. NATO green.

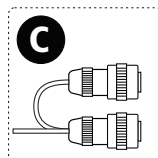
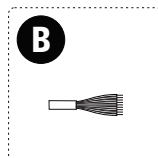
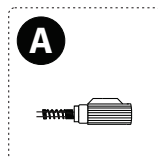
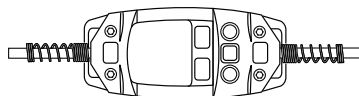
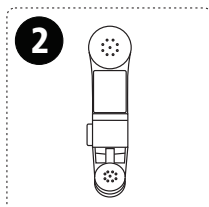
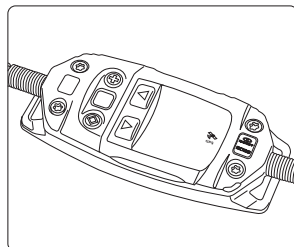
Connector options (selected upon point of order):

1. Speaker Microphone
2. H250 Handset
3. Headset with Microphone

A. H250 Connector for connection with a 2080+ VHF Manpack Transceiver

B. Unterminated connection

C. Dual Mil-connectors for connection to a 2082+/2084+ VHF Vehicle or Base Station setup



Barrett PRC-2069 VHF Tactical Vehicular/Base Voice and Position Encrypter

Part Number

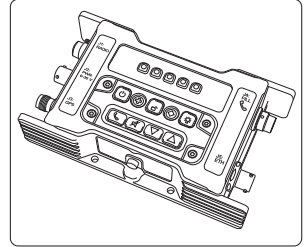
Net Weight

2069-10-70

0.55 kg

The Barrett Voice and Position Encrypters are high performance, digital, secure voice modems. They are suitable for first responders, security agencies, governmental and paramilitary users with voice privacy and asset tracking. Easily integrating with VHF radio transceivers via the audio or accessory interface, the units are suitable for use with base station and vehicular radio installations.

Please contact Barrett Communications for further information.



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# **VHF Hardware Accessories**



	Part Number	Net Weight
Li-Ion Battery charger/Programming base	2085-03-09	0.6 kg

For charging 6.5Ah Li-Ion battery pack and programming 2080+ VHF Transceiver

**Includes:-**

- AC Power supply cable P/N SA-00020\* (Selected at point of order)
- Battery charger adaptor P/N 2085-03-10
- Battery charger plate



Rechargeable 6.5 Ah Li-Ion battery pack	2085-03-05	0.6 kg
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6.5 Ah Li Ion rechargeable battery.



Multiway 6 pocket Li-Ion Battery charger/Programming Base	2085-03-11	5.8 kg
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For charging multiple 6.5 Ah Li-Ion batteries and programming up to 4 x 2080+ VHF Transceivers. Universal 110 – 250 V AC input. DC 24V input

**Includes:-**

- AC Power supply cable s P/N SA-00020\* (Selected at point of order)
- USB to mini USB programming cable P/N 2085-04-03



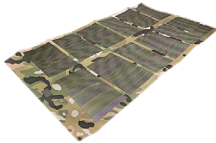




**Note:-** Battery backup cable ordered separately P/N 2090-06-08

10 Ah, 14.4 V Lithium Ion battery pack	2090-03-05	1.25 kg
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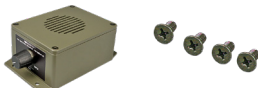
Battery cartridge - for PRC-2081+ brigade radio.








- 14.4 V 10 Ah Lithium Ion battery



	Part Number	Net Weight
<b>Rapid deployment solar panel - colour Multicam</b>  Solar power supply pack - for charging and operating the manpack transceiver.  <b>Includes:-</b> <ul style="list-style-type: none"> <li>- Compact lightweight tactical foldout solar panel 24 VDC @ 1.2 Amps normal</li> <li>- Folds to 37 cm x 22 cm x 4 cm package, with lead and plug to suit PRC-4090 and PRC-2081+</li> </ul>	2090-03-08	1.3 kg
		
<b>Universal AC/DC adaptor</b>  Universal AC/DC power adaptor - for charging and operating the 25 W brigade radio when either mains power between 100 and 254 VAC or DC power between 11 and 18 VDC is available.  <b>Includes:-</b> <ul style="list-style-type: none"> <li>- AC power cords to suit most world power outlets* (Selected at point of order)</li> <li>- DC power lead that has clips and adaptors to plug into either a vehicle cigarette lighter outlet, vehicle power outlet or 12 V battery</li> </ul>	2090-03-01	1.8 kg
		
<b>DC Power cable</b>  DC Power Cable for dual battery charger with clips and adaptors to plug into either a vehicle cigarette lighter outlet, vehicle power outlet or 12 V battery.	2080-03-02	0.14 kg
		
<b>Tactical handset with keypad</b>  Tactical handset with waterproof MIL-SPEC connector, speaker, microphone, Press-To-Talk (PTT) button and backlit control keypad for use with advanced software features such as Selcall, Groupcall, key entry and front panel programming.	2080-01-11	0.4 kg
		
<b>Lightweight tactical headset (under helmet)</b>  Lightweight tactical headset, suited to under helmet mounting, with MIL-SPEC connector, speaker, microphone on a gooseneck and clip on Press-To-Talk (PTT) button.	2080-01-04	0.2 kg
		



	Part Number	Net Weight
<b>Tactical installation kit</b>	2082-05-01	0.2 kg
<b>Includes:-</b> <ul style="list-style-type: none"> <li>- Large selection of screws to accommodate most installations</li> <li>- Cable ties</li> <li>- Rubber amalgamation tape</li> <li>- Power cable lugs</li> <li>- Manual circuit breaker</li> <li>- Braided earth lead with lugs</li> </ul>		
		
<b>VHF Lightning arrestor kit</b>	2080-05-01	2.05 kg
<b>Includes:-</b> <ul style="list-style-type: none"> <li>- 1 x Surge arrestor with 'N' type (female) connectors</li> <li>- 1 x 5 metres length of RG58 Coaxial cable with 'N' type (male)</li> <li>- 1 x Steel dolly</li> <li>- 1 x 3 m earth braid</li> <li>- 1 x Brass cable clamp assembly</li> <li>- 1 x Copper plated steel earth rod</li> </ul>		
		
<b>Canvas backpack - Multicam</b>	2080-01-12	0.6 kg
<p>Canvas Backpack to suit the PRC-2080+ VHF Tactical Handheld Package or VHF 5 W Tactical Transceiver with standard battery. The lightweight backpack design is suited to back mounting the transceiver (transceiver not included), mounting either a short or long antenna.</p>		
<p><b>Note:-</b> Also available in Olive green colour P/N 2080-01-05</p>		
		
<b>Webbing pouch - Multicam</b>	2080-01-13	0.1 kg
<p>Webbing pouch to suit PRC-2080+ 5 W Tactical handheld. Colour - Multicam</p>		
<p><b>Notes:-</b></p> <ul style="list-style-type: none"> <li>- Also available in Olive green colour P/N 2080-01-14</li> <li>- Transceiver not included.</li> </ul>		
		
<b>Rugged external mount speaker</b>	2082-01-33	0.6 kg
<p>External mount speaker for the PRC-2082+ 50 W VHF transceiver when used in a mobile, or the PRC-2084+ as a base or within a rebroadcast system.</p>		
<p><b>Note:-</b> Cable part number 2082-10-32 is required to connect the speaker.</p>		
		

	Part Number	Net Weight
<b>Daypack - multicam</b>  The Day Pack provides a compact carry bag solution for the 2090 manpack transceiver. With storage for essential items like antenna's, solar panel, GPS as well as a separate pouch for a water bladder and small rugged tablet. There are external MOLLE fixing points if user specific pouches want to be added.	2090-01-36	1
		
<b>VHF Speaker mounting bracket</b>  Speaker bracket for mounting the rugged external speaker to the vehicle docking station.	2082-01-34	0.08 kg
		
<b>Cable speaker</b>  Cable to connect the rugged external mount speaker to the PRC-2082+ 50 W VHF amplifier when used in a mobile, or the PRC-2084+ as a base or within a rebroadcast system.	2082-10-32	0.06 kg
		
<b>Vehicle docking station to power supply cable</b>  Cable to connect vehicle docking station to AC power supply.	2089-06-06	0.25 kg
		
<b>VHF Handset mounting bracket</b>  Bracket to mount handset to the PRC-2082+ 50 W VHF Transceiver when use in a mobile, as a base or within a rebroadcast system.	2082-01-32	0.06 kg
		
<b>Vehicle docking station</b>  Vehicle docking station to connect PRC-2080+ VHF Transceiver to vehicle/ base amplifier or direct to external VHF antenna. Provides DC supply, Audio/ RS-232 and RF connectors.	2087-00-01	3.10 kg
<b>Note:-</b> Any required cables to be ordered separately.		
<b>50 W VHF Amplifier</b>  30 - 88 MHz, provides 50 W power output for PRC-2080+ docked in vehicle docking station.	2087-00-02	4.15 kg
<b>Note:-</b> Any required cables to be ordered separately.		

	Part Number	Net Weight
<b>Mass matched vibration mounting platform for Land application</b>  For mounting a Vehicle Docking Station into an armoured or other shock-heavy vehicle.  <b>Note:-</b> Includes transition plate.	2082-00-08	2.3 kg
<b>Coaxial cable 0.1 metres</b>  Coaxial cable 5 W to 25 W docking station or 50 W VHF amplifier.	2087-00-05	0.04 kg
<b>Coaxial cable 0.4 metres</b>  Coaxial cable BNC to BNC 0.4 metres vehicle docking station to 50 W VHF amplifier for PRC-2083 50 W VHF Tactical re-broadcast system.	SA-20832	0.04 kg
<b>Control cable 0.3 metres</b>  Interconnecting control cable 0.3 metres between 50 W VHF amplifier and vehicle docking station.	2082-00-03	0.1 kg
<b>DC Power cable</b>  DC Power cable to suit 50 W amplifier.	2090-03-06	0.95 kg
<b>Battery backup cable</b>  AC Power supply battery backup cable.	2090-06-08	1.20 kg
<b>VHF Rebroadcast Interface</b>  <b>Includes:-</b> - VHF Rebroadcast Interface guide P/N BCM20802	2080-01-20	N/A





	Part Number	Net Weight
Transportation casing	2083-00-03	22.2 kg

High impact polyester transportation casing with 8 RU shock mounted rack.



## **VHF Antenna options**



	Part Number	Net Weight
Collapsible whip 1.8 metres	2085-02-02	0.2 kg
Collapsible 1.8 metres whip - colour black.		
<b>Note:-</b> Requires 5 W Gooseneck P/N 2085-02-01 or 25 W Gooseneck P/N 2086-02-01 to connect the whip antenna to the transceiver.		
		
5 W Gooseneck	2085-02-01	0.35 kg
5 W Gooseneck for connecting collapsible whip antenna P/N 2085-02-02 or tape whip antenna P/N 2085-02-01 to the PRC-2080+ 5 W VHF Tactical transceiver.		
		
25 W Gooseneck	2086-02-01	0.35 kg
25 W Gooseneck for connecting collapsible whip antenna P/N 2085-02-02 or tape whip antenna P/N 2085-02-01 to the PRC-2081+ 25 W VHF Tactical manpack.		
		
Tactical rapid deployment antenna with RG-58 coaxial cable and connectors	See below	1.8 kg
Field deployable broadband 30 - 88 MHz antenna complete with 20 metres RG-58 coaxial cable, TNC adaptor and N-type connectors.		
		
With 20m of RG-58 Coaxial cable	2086-02-10	1.50 kg
With 10 metres RG-58 coaxial cable	2086-02-11	0.75 kg

	Part Number	Net Weight
Military VHF 30-88 MHz aluminium whip and base antenna	2087-02-11	3.1 kg

Sourced from Trival Antene this wideband 30 to 88 MHz VHF antenna mainly intended for use in heavy-duty mobile applications. The antenna is composed of four main parts: antenna base, lower, middle and upper radiating element. Stainless steel spring absorbs the shocks and the vibrations. Elements are made of composite materials enabling outstanding strength and ruggedness. The antenna base has four mounting holes which complies with NATO standard. The antenna radiator is painted with military green (RAL-6014) two-component UV resistant paint. Deployed length 3.4m



**Includes:-**

- Military VHF whip antenna and base P/N AD-18/D3-BNC
- 5 metres coaxial cable P/N 2082-00-07

Military VHF 30-88 MHz fibreglass whip and base antenna	2087-02-10	4.95 kg
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Military grade fibreglass whip antenna is a ruggedly, constructed VHF centre-fed whip antenna. Deployed length 3.45 metres.



**Includes:-**

- Military VHF whip antenna P/N 2087-02-01
- Military VHF antenna base P/N 2087-02-02
- 5 metres coaxial cable P/N 2082-00-07

RG-58 coaxial cable with "N" type connectors 20 metres	2084-02-02	0.4 kg
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20 metres of RG-58 coaxial cable with "N" type connectors.



RG-213 coaxial cable with "N" type connectors 20 metres	2084-02-01	3.4 kg
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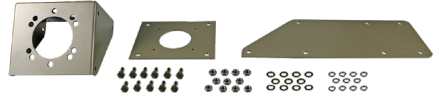
20 metres Coaxial cable for connecting military VHF 30-88 MHz whip antenna to PRC-2080+ series.





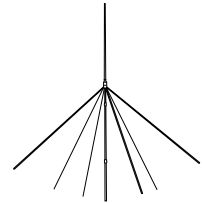
	Part Number	Net Weight
Antenna mounting bracket	2090-02-19	3.3 kg

Mounting bracket for VHF mobile whip antenna.



30 to 108 MHz elevated wideband VHF antenna	2083-02-03	2.9 kg
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Rugged broadband antenna designed for high performance in the VHF frequency range 30 - 108 MHz. Used for tactical applications using a portable mast or, for base-station mounting on towers or other fixed platforms. 4.8 metres height, with 3.2 metres width, wind rating of 170 Kph and is NATO green.



**Compatible masts:-**

- Rapid Deployment Composite Mast 9.4m (P/N 2083-02-02)
- 10m Rapid deployment mast (P/N 2090-02-21)

**Notes:-**

- Requires 20 metres RG-58 coaxial cable P/N 2084-02-02
- Recommended for temporary use only

30 to 108 MHz centre-fed ground independent whip with stand-off bracket to suit composite masts	2083-02-01	3.7 kg
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Frequency range 30 - 108 MHz, power input 100 Watt, gain -6 dBi - +2 dBi , length 3 m, environmentally designed to comply with MIL-STD 810G.

**Compatible masts:-**

- 10m Rapid deployment mast (P/N 2090-02-21)
- 10m air transportable Aluminium mast- nylon guys (P/N BC90205)

**Note:-** Requires 20 metres RG-213 coaxial cable P/N 2084-02-01



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# Maintenance



	Part Number	Net Weight
PRC-4090 Micro Complete <b>SDR Micro board complete.</b>	4090-60-01	N/A
PRC-4090 PA complete on chassis The PA board is supplied fitted to the chassis	4090-60-02	N/A
PRC-4090 Interface Board PCB Interface board complete.	4090-60-03	N/A
PRC-4090 ATU Board PCB ATU board complete.	4090-60-04	N/A
PRC-4090 Component Spares kit Discrete component spares based on one transceiver for 5 years operation.	4090-60-00	N/A
PRC-4090 Control Handset Complete Complete PRC-4090 Control Handset setup.	4090-60-05	N/A
PRC-2080 5 W VHF Squad radio component spares kit Component spares kit to maintain 5 x PRC-2080 5 W VHF Squad radios for a 5 year period	2085-60-00	N/A
PRC-2080 Bench test / programming unit Bench mount unit used with programming software to program and test RF power output of PRC-2080	2085-60-15	N/A

	Part Number	Net Weight
<b>PRC-2080 5 W VHF Squad radio module spares kit</b> Module spares kit to maintain 5 x PRC-2080 5 W VHF Squad radios for a 5 year period	2085-60-01	N/A
<b>PRC-2081 25 W VHF Brigade radio component spares kit</b> Component spares kit to maintain 5 x PRC-2081 25 W VHF Brigade radios for a 5 year period  <b>Note:-</b> this spares kit does not include spares associated with the docked PRC-2080 5 W VHF squad radio, these should be ordered separately.	2086-60-00	N/A
<b>PRC-2081 25 W VHF Brigade radio module spares kit</b> Component spares kit to maintain 5 x PRC-2081 25 W VHF Brigade radios for a 5 year period  <b>Note:-</b> this spares kit does not include spares associated with the docked PRC-2080 5 W VHF squad radio, these should be ordered separately.	2086-60-01	N/A
<b>PRC-2082 50 W VHF Mobile radios component spares kit</b> Component spares kit to maintain 5 x PRC-2082 VHF Mobile radios for a 5 year period  <b>Note:-</b> this spares kit does not include spares associated with the docked PRC-2080 5 W VHF squad radio, these should be ordered separately.	2087-60-00	N/A
<b>PRC-2082 50 W VHF Mobile radio module spares kit</b> Component spares kit to maintain 5 x PRC-2082 VHF Mobile radios for a 5 year period  <b>Note:-</b> this spares kit does not include spares associated with the docked PRC-2080 5 W VHF squad radio, these should be ordered separately.	2087-60-01	N/A

# Training





	Part Number	Net Weight
<b>Training package 5 days - min. 2 students per course</b>  Various HF and VHF course syllabuses are available - details on request. Courses can be conducted at Barrett Communications' training facility in Perth Western Australia or at Barrett Europe's training facility in Whiteley United Kingdom. Alternatively they can be held at the customer's own facilities.  <b>Note:-</b> In either case the course does not include airfares and accommodation for the students when travelling to Western Australia and the United Kingdom or for our instructors if they travel to the customer's facilities.	BCT20001	N/A
<b>Training package 10 days - min. 2 students per course</b>  Various HF and VHF course syllabuses are available - details on request. Courses can be conducted at Barrett Communications' training facility in Perth Western Australia or at Barrett Europe's training facility in Whiteley United Kingdom. Alternatively they can be held at the customer's own facilities.  <b>Note:-</b> In either case the course does not include airfares and accommodation for the students when travelling to Western Australia and the United Kingdom or for our instructors if they travel to the customer's facilities.	BCT20002	N/A
<b>Training package Day Rate - min. 2 students per course</b>  Various HF and VHF course syllabuses are available - details on request. Courses can be conducted at Barrett Communications' training facility in Perth Western Australia or at Barrett Europe's training facility in Whiteley United Kingdom. Alternatively they can be held at the customer's own facilities.  <b>Note:-</b> In either case the course does not include airfares and accommodation for the students when travelling to Western Australia and the United Kingdom or for our instructors if they travel to the customer's facilities.	BCT20008	N/A

