

- **1.5 MHz to 30 MHz frequency coverage**
- **Compact size**
- **150 Watt (digital, voice and data)**
- **Built in memory tune**
- **ALE 2G/3G compatible**
- **Mil-STD 810G**

Designed and manufactured in Australia, the Barrett 411 (P/N BC411001) automatic antenna tuner is designed for operation in land mobile and base station installations with Barrett and OEM radio products.

Housed in a fully weatherproof enclosure, the 411 will efficiently tune long wire antennas up to a length of 20 metres, wire loop antennas or whip antennas over a frequency range of 1.5 to 30 MHz. Tuning is rapid, typically less than 1.5 seconds from the first time RF is applied, either whilst the operator is talking or when the "Tune" control is activated on the transceiver.

The 411 tuner features a memory facility that stores the configuration required to tune to a frequency. On any subsequent use of a frequency, the 411 reconfigures to the stored settings in typically less than 200 milliseconds.

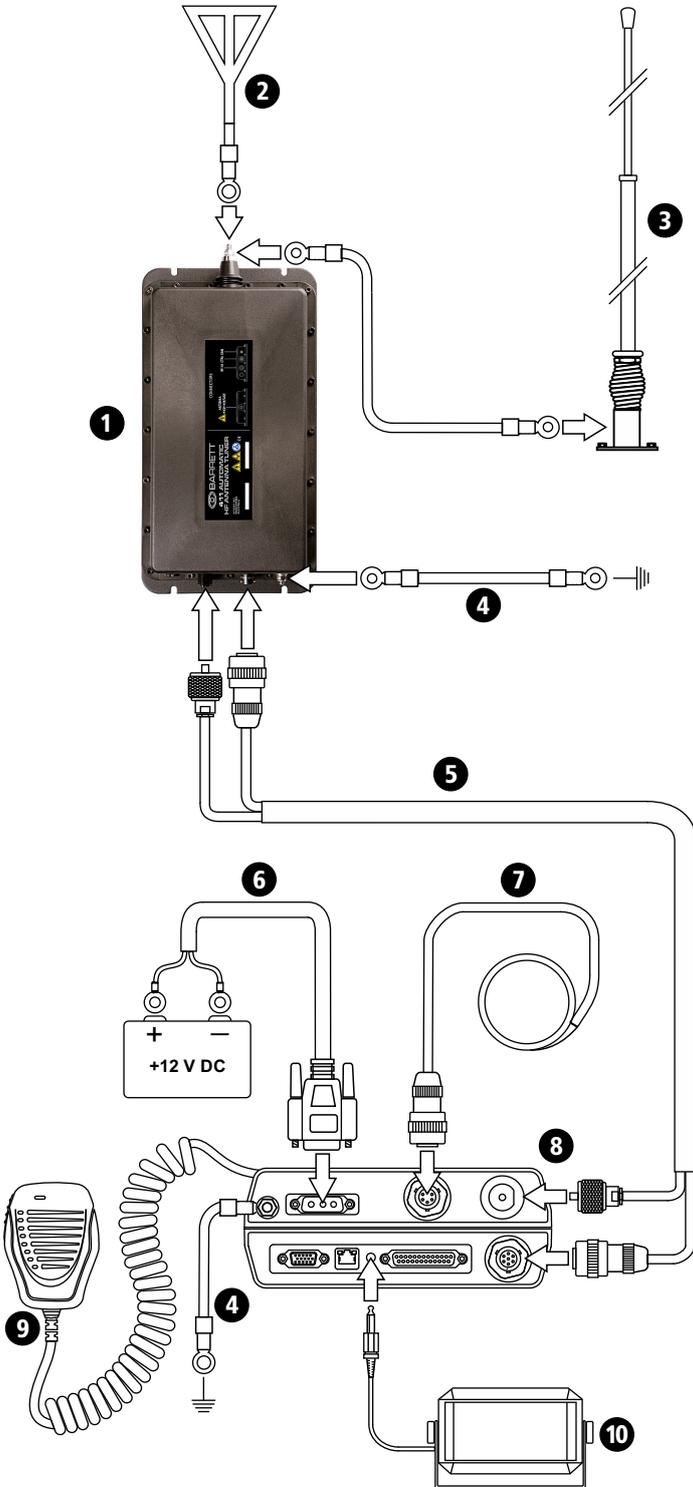
A 10 metre RF control cable is available as an optional accessory to order (P/N 4019-00-05) as an extension adapter kit (P/N BCA401914).



## 411 ATU - General Specifications

<b>Frequency Range:</b>	1.5 - 30 MHz (continuous) with 10 m or longer longwire / whip antenna 1.8 - 30 MHz (continuous) 7 m or longer longwire / whip antenna 2 - 30 MHz (continuous) with 3.5m whip or longer longwire / whip antenna
<b>Input Impedance:</b>	50 ohms
<b>Power Rating:</b>	150W PEP (Digital, voice and data)
<b>DC input requirements</b>	12 - 13.8 V DC (derived from transceiver)
<b>Power consumption</b>	Tuned Typically 400mA
<b>Tuning</b>	<800mA
<b>Tuning time</b>	Less than 1.5 seconds - typical from memory - Less than 200 mS typical
<b>Memory addresses</b>	1000
<b>Ingress Protection</b>	To IP67 (dust and water)
<b>Protection</b>	Open circuit antenna Short circuit antenna High VSWR Voltage transients
<b>VSWR</b>	Typically less than 2:1
<b>Case construction</b>	Moulded Nylon-66 glass-filled with Aluminum base
<b>Colour</b>	Black
<b>Weight</b>	2.10kg

## Basic Configuration - Base Station and Mobile



- 1 Barrett 411 Automatic antenna tuner (P/N BC411001)
- 2 Base station whip or long wire antenna
- 3 Mobile whip antenna
- 4 Ground (Earth)
- 5 Control cable 6 m - integral coaxial/control with connectors to suit 4000 series (P/N 4019-00-02)
- 6 DC Power cable and 12 V battery
- 7 External GPS receiver option (P/N BCA40009)
- 8 Barrett 4050 HF SDR Transceiver(rear) (P/N BC405000)
- 9 Microphone (P/N BCA40010)
- 10 Extension speaker supplied with transceiver (P/N BCA40015)