

# PK's Loop Antennas ABN 76 271 051 082

## Remote Tuned Shielded Magnetic LW Loop Antenna – 130 to 450 KHz

CODE: C-LOOP-HDREMLW



### Description:

This is our HD Series Shielded Longwave Loop Antenna featuring a remote controlled tuning system. Mount the Loop outdoors (on a rotator) and remotely control the tuning with ease indoors beside your radio. The Loop's High-Q tuning response gives a nice signal peak right on station, pushing adjacent signals right down in level, reducing unwanted splatter from nearby stations and lowering the residual noise.

This Antenna has been designed with Longwave Enthusiast in mind; we hope to greatly increase your Stations Log and the quality of your listening experience!

**Note:** Longwave reception is subject to the effects of signal propagation, the time of day and is greatly influenced by local interference from Electronic and Electrical Appliances.

### Specifications:

- Frequency coverage – Your choice on order of 185 to 525 KHz, 130 to 450 KHz or Custom range (POA)
- High stability, voltage and temperature compensated tuning system
- Dimensions - 40cm / 15" diameter antenna made from 32mm IP56 Rated UV Stabilized PVC Tube
- High performance frequency compensated amplifier with diode protection, fitted with BNC connectors and output impedance matched to 50 or 75 Ohm Cable, recommended Belden 8259 or RG-58C/U or RG6 Quad
- Versatile power requirements and low power consumption. (<25mA @ 13.8v DC)
- Our products are proudly designed and manufactured in Australia.

### Supplied accessories:-

- 1x Loop Antenna and instructions
- 1x Control Box, with Manual Tuning control
- 1x Australian 240 volts AC to 12 volts DC Plug Pack (Australian Customers Only)
- 1x 2.0m RG-58C/U BNC to PL-259 Connector Cable for connection to your receiver
- 1x Mounting bracket including 2x Screws for loop base

### Available Options:-

- 1x 1.5m DC Power Lead with 2.5mm EIAJ Connector to open ends.
- 2x 10m RG-58C/U BNC to BNC cables to connect Loop to Control Box.
- 2x 10m RG-6 Quad Shield Cable fitted with Compression BNC Connectors
- Internal twin 9volt Battery holder (batteries not included)
- BNC to open ends cable
- BNC Connector to RCA / 3.5mm phono jack cable
- Fused Cigarette Lighter power lead
- Tuning Presets for 2-4 stations
- Custom made control systems
- Longer remote cable sets
- Light Duty Antenna Rotator and Control Box

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### Operation:

1. Connect the long BNC Cables marked “Loop/Tune” and “Loop/Pwr” to the matching connectors on the Loop Antenna and the Control box. Note: If these cables are inadvertently swapped over, no damage should occur; the antenna will simply not function, however it's best to not to swap them.
2. Connect your Receiver to the BNC connector marked “RADIO” on the control box. There is also a second output marked Hi-Fi, which is for receivers with Loop Terminals or a Hi Impedance input.  
**Warning: NEVER connect your receiver to the Loop/Power connector on the control box as there is DC present and you will cause damage.**
3. Insert the Power Lead connector into the DC Jack on the rear of the Control box and apply power.
4. Tune your radio to the desired stations frequency that is within the tuning range of the antenna.
5. Slowly turn the Manual Tune control to the point of strongest reception.
6. Orientate the Loop Antenna to obtain the clearest reception, noting that the two nulls in the antenna pattern can be used to eliminate interference.

### Customised Control Boxes



with Internal Battery Holder



Car / Mobile



with RF Gain Control

### Notes:

- 1/ Customised control boxes vary from the above pictures as this is dependant on ordered options.
- 2/ To obtain the best results always use good quality coaxial cables, as some cables have poor screening and unwanted signals may be picked up by the cable.
- 3/ DC operation will give the best signal to noise performance of your receiver and the loop system.

Please enjoy listening to the bands using your new Remote Tuned Loop Longwave Antenna !

Regards  
Paul Karlstrand

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