

Congratulations on the purchase of your high gain wideband aerial kit which is designed to receive digital terrestrial signals. This aerial is also 4G ready - the design restricts bandwidth to prevent interference & channel loss on your TV caused by signals from 4G transmitters. This aerial has been manufactured to the standard required to get the best reception of digital terrestrial TV services (such as Freeview™). If the aerial is to be used for DTT reception check before installation at [www.dtg.org.uk/retailer/coverage.html](http://www.dtg.org.uk/retailer/coverage.html) to confirm that your home is in a coverage area and to find out where your local transmitter is. This kit contains all the items necessary for central mounting the aerial to an existing mast or for rear mounting externally to eaves or a wall or mounting in a loft. This kit also contains 10m of digital type coax cable to ensure good reception.

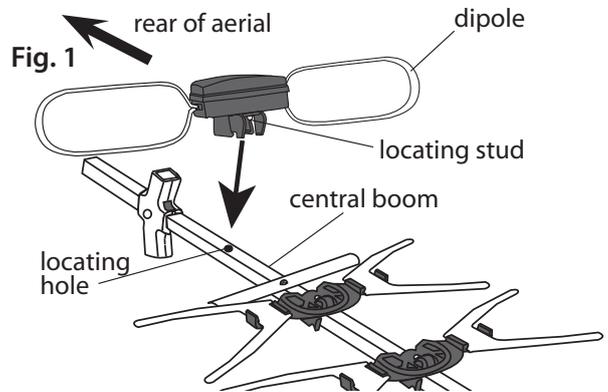
**WARNING** Every aerial installation is different in nature. To fit suitable brackets, fixings and poles/masts you need to take into consideration: a.) The state and type of surface being mounted to. b.) The weight of the assembly to be mounted. c.) The exposure to and effect of prevailing winds. Fixings and brackets supplied with this product may not be suitable for your particular installation. **The pole mount bracket and pole supplied with this product are recommended for loft mounting only.** If in doubt please consult a CAI registered installer.

### Main Features

- Wideband - suitable for all UK TV reception areas, covering frequency range 460-790MHz
  - Receives digital TV signals
  - Perfect for use in the majority of locations although in very high strength signal areas an attenuator may be required, or for very weak strength signal areas an amplifier may be needed
- The aerial requires some assembly - please read these instructions carefully before beginning.

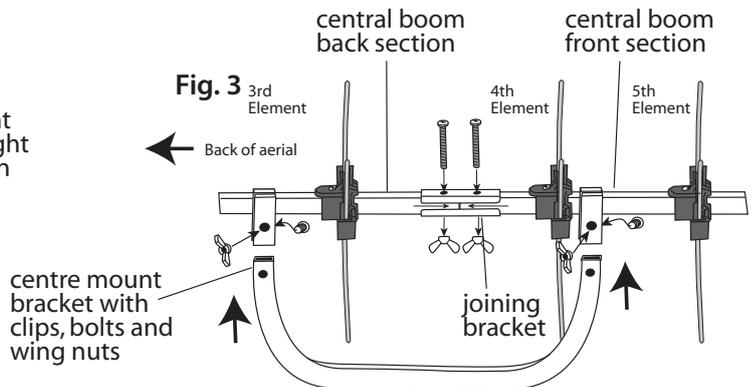
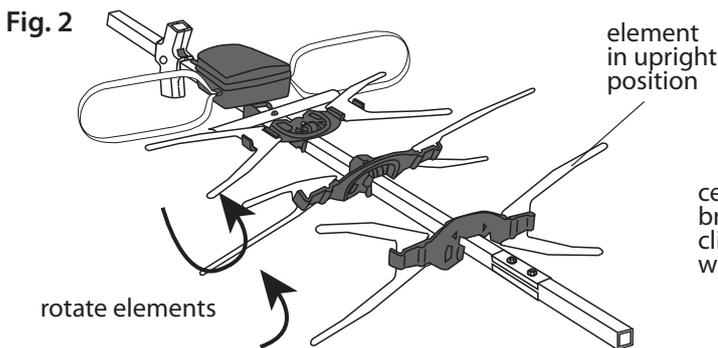
#### A. Fitting the dipole assembly

The dipole clips onto the central boom. Ensure that the cable exit hole (from the terminal box) faces the rear of the aerial and that the locating stud fits into the locating hole on the boom as shown in Fig. 1.



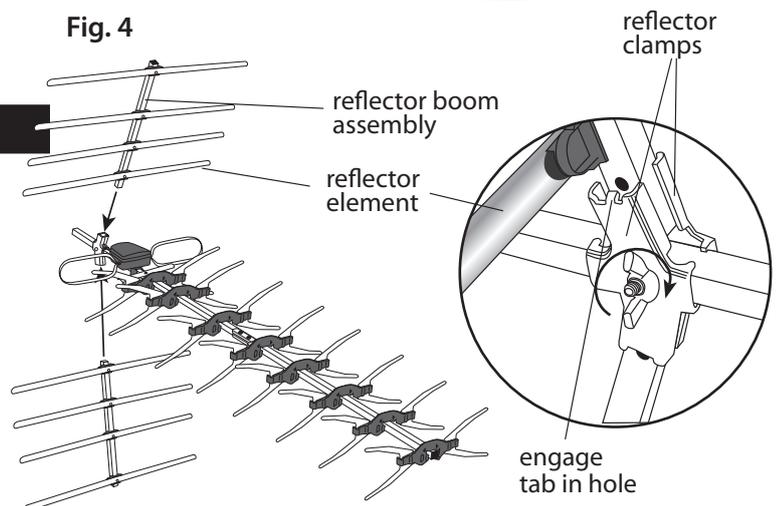
#### B. Rotating aerial elements, central boom and centre mount assembly

1. Rotate the elements about the central fixing clip until they 'snap' into an upright position as shown in Fig. 2.
2. The central boom comes in two sections using the bracket supplied and the holes drilled in the boom sections join these two sections as shown in Fig. 3.
3. Attach centre mount bracket in the position shown using the clips supplied.



#### C. Fitting the reflectors

1. Using the reflector clamps, screw and large wing nut, fix the reflector assemblies to the main aerial boom.
2. Check that the reflector clamp tabs locate in the holes of the reflector boom sections and that the wing nut is tight - see Fig. 4.
2. Ensure that the reflector elements are facing towards the front of the aerial (convex surface forward).



## D. Connecting coax cable

1. Before preparing and stripping the cable ready for connection, feed the coax cable through the hole in the terminal cover.
2. Prepare cable as shown in Fig. 5.
3. Feed prepared cable through braid clamp and thread the centre wire through the hole in the central terminal as shown in Fig. 5.
4. Clamp the cable braid securely first, then tighten the screw on the central terminal. Trim any stray braid that might come into contact with the centre wire or central terminal.
5. Replace terminal cover carefully and securely making sure that the cable is not trapped or kinked.

Fig. 5

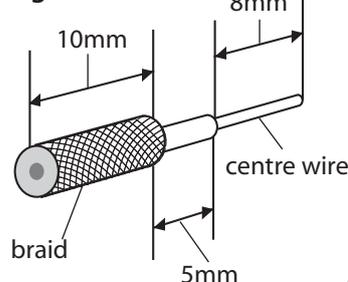
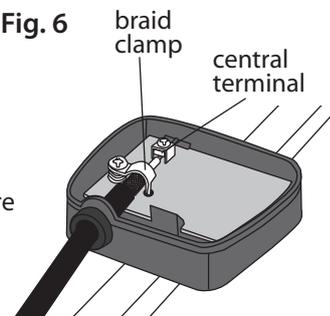


Fig. 6



## E. Coax cable routing and fixing aerial to a mast

For optimum performance it is very important that the coax cable should be routed as shown in the diagrams opposite. Fig. 7 shows cable run for this aerial. PVC insulation tape can be used as shown to hold the cable in place.

For best results the aerial should be centre mounted on an outdoor aerial mast and pointed in the direction of the nearest transmitter\* making sure it is in a position where the transmitter signal will not be obstructed by nearby trees and buildings. If you are in any doubt about the direction in which the aerial should be pointing or the orientation of the aerial (horizontal for main transmitter, vertical for relay transmitter) check your neighbours' aerials.

When centre mounting, slide the aerial mount back and forth through mast bracket to find the most evenly balanced position, this will minimise the strain on aerial, bracket and mast.

Before mounting check that the mast is in good condition and firmly fixed.

1. Using the clamp supplied fix the aerial to the mast - see Fig. 7 & 8.
2. After the aerial direction has been fine tuned for best reception tighten the bolts firmly until the aerial is securely fixed to the mast.

Alternatively for loft mounting, assemble the pole mount and mast clamp as shown below (figs. 9 & 8). The pole mount can be fitted to a roof timber (using screws provided) or to a suitably sound wall surface.

Fig. 7

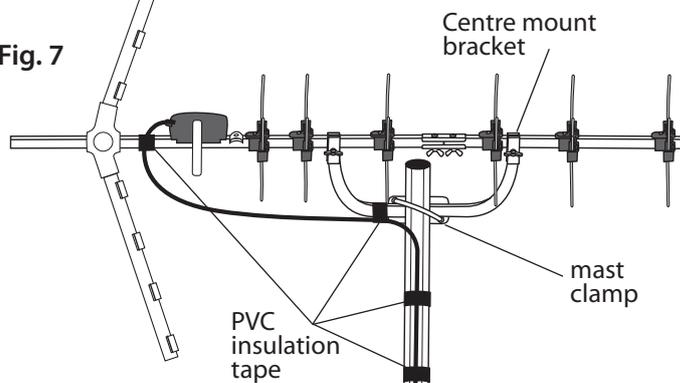


Fig. 8

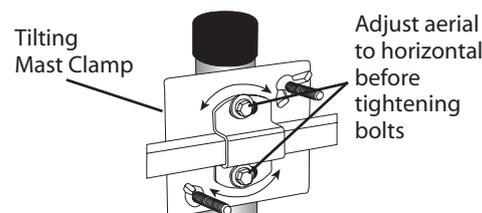
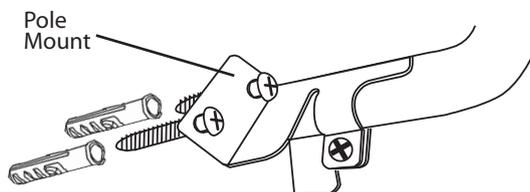


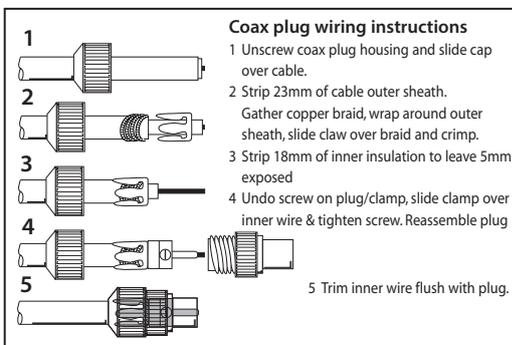
Fig. 9



For wall mounting attach with bolts and wallplugs supplied on both sides of mount (far side not shown)

Pole mount and pole are only suitable for loft mounting this aerial - not suitable for outside mounting

**CAUTION: When mounting the assembled aerial, always observe safety precautions and use the correct equipment. Unless you are competent in the use of ladders and other access equipment, do not work outdoors at roof height. If in any doubt, refer to a qualified aerial installer.**



### Coax plug wiring instructions

- 1 Unscrew coax plug housing and slide cap over cable.
- 2 Strip 23mm of cable outer sheath. Gather copper braid, wrap around outer sheath, slide claw over braid and crimp.
- 3 Strip 18mm of inner insulation to leave 5mm exposed
- 4 Undo screw on plug/clamp, slide clamp over inner wire & tighten screw. Reassemble plug
- 5 Trim inner wire flush with plug.

## Troubleshooting

**No picture:** Check all connections from aerial to TV.

**Poor picture:** Check all connections from aerial to TV.

Check aerial is properly aligned to the correct transmitter.

If the aerial has been loft mounted try mounting outside.

Make sure new digital coax cable has been used throughout the installation.

Check the transmitter signal is not obstructed by nearby trees or buildings.

If in a weak signal area or for long cable runs, installing a mast-head amplifier will improve the signal.

If in a strong signal area the signal strength may need to be reduced by fitting an attenuator.

## Box contents

- 1x Central boom: assembly square aluminium in 2 sections joined (L) approx 1240mm with 8x 'X' type elements
- 2x Reflector booms: Square aluminium (L) approx 330mm with 8x Reflector elements: Curved aluminium (L) approx 500mm
- 1x Centre mount bracket with clips: assembly square aluminium
- 1x Bow tie shaped dipole and printed circuit balun
- 1x Tilting Mast Clamp

## Useful Websites for Digital Advice

\*To confirm that your home is in a coverage area, to find out what DTT channels should be available locally:

<http://www.dtg.org.uk/industry/coverage.html>

and enter postcode.

To find out your nearest transmitter's distance and compass bearing select Trade view from the top bar.

**Customer Careline: 08457 573 479** (Local rate UK only)

**Technical Website:** [www.philex.com/support](http://www.philex.com/support)

**E-mail Support:** [technical@philex.com](mailto:technical@philex.com)