

Congratulations on the purchase of your high gain wideband aerial kit. This aerial has been manufactured to the standard required to get the best reception of digital terrestrial TV services. Check before installation at [www.dtg.org.uk/industry/coverage.html](http://www.dtg.org.uk/industry/coverage.html) to find where your local transmitter is. This kit contains all the items necessary for mounting the aerial to an existing mast or for 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.

This aerial is also 4G ready - the design restricts bandwidth to prevent interference & channel loss on your TV caused by signals from 4G transmitters.

### **⚠ WARNING**

As every aerial installation is different in nature, the fixings (pole mount and pole) supplied with this aerial kit are suitable for loft mounting only. If you plan to mount this aerial in an outside location use either an existing fixing bracket and mast or buy a suitable bracket and mast from your local DIY store.

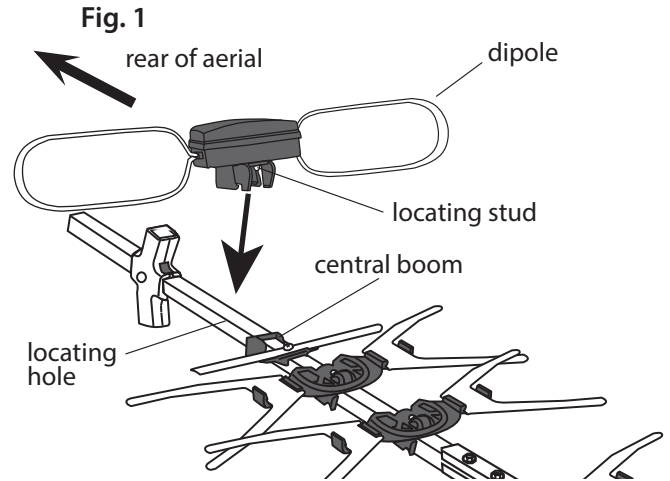
### Main Features

- Wideband – suitable for all UK TV reception areas, covering frequency range 460-790MHz
- Receives digital TV signals
- Suited for moderate and strong signal strength areas

The aerial requires some assembly - please read these instructions carefully before beginning.

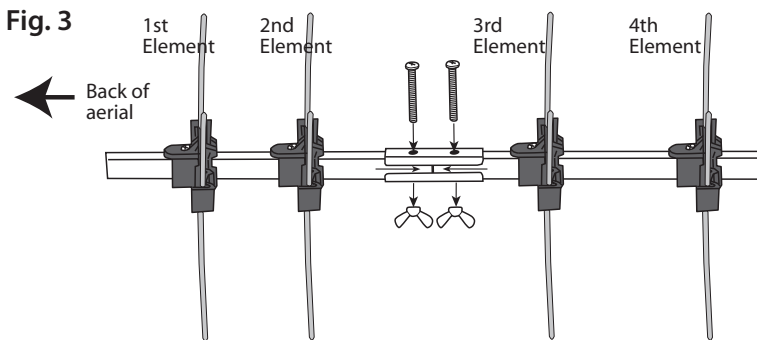
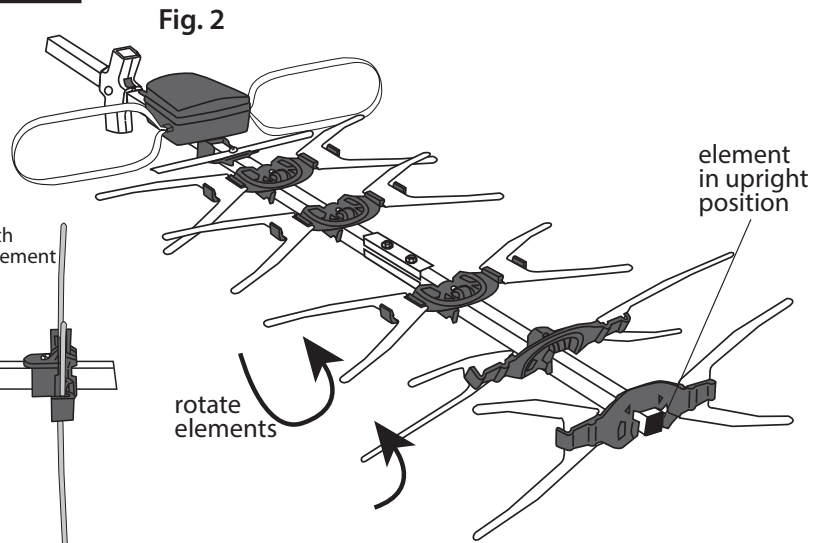
### A. Fitting the dipole assembly

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.



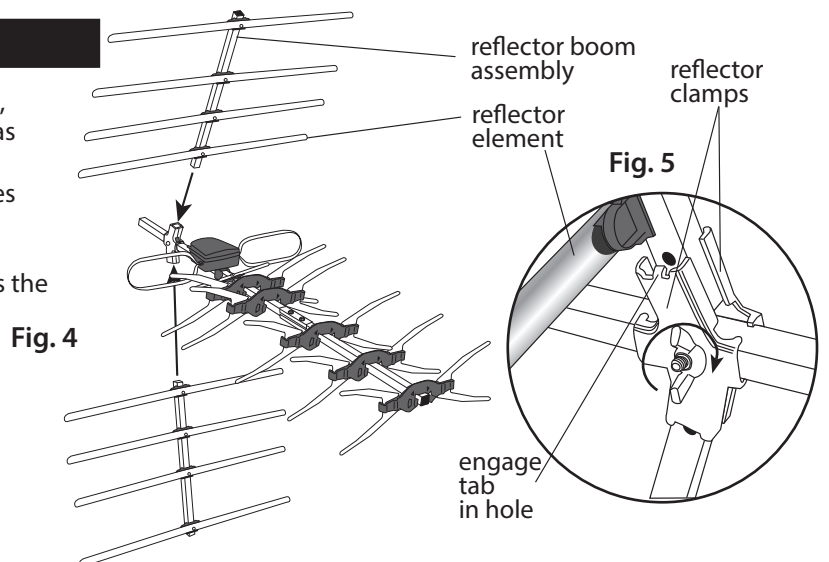
### B. Rotating aerial elements and central boom assembly

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.



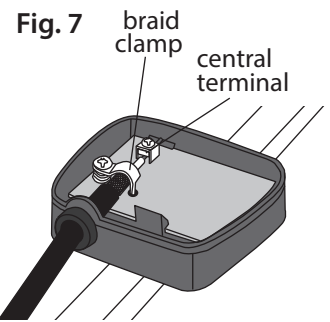
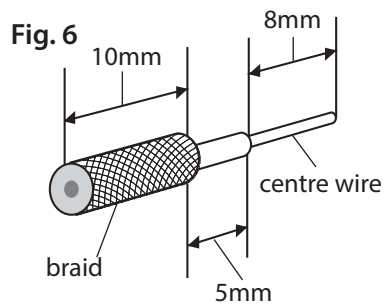
### C. Fitting the reflectors

1. Using the reflector clamps, screw and large wing nut, fix the reflector assemblies to the main aerial boom as shown in Fig. 4 and 5.
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. 5.
3. 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. 6.
3. Feed prepared cable through the braid clamp and thread the centre wire through the hole in the central terminal as shown in Fig. 7.
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.



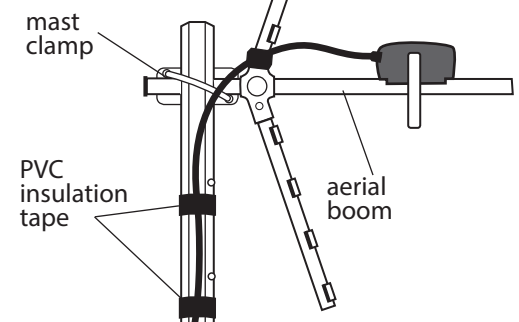
## E. Coax cable routing

For optimum performance it is very important that the coax cable should be routed as shown in Fig. 8.

**DO NOT ALLOW THE CABLE TO TOUCH THE AERIAL BOOM AT ANY POINT.**

PVC insulation tape can be used as shown to hold the cable in place.

Fig. 8



## F. Fixing to a mast

For best results the aerial should be 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. If mounting on an existing mast check that the mast is in good condition and firmly fixed.

1. Using the clamp supplied fix the aerial to the mast - see Fig. 8 & 9.
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 and opposite (figs. 9-10). The pole mount can be fitted to a roof timber (use screws only) or to a suitably sound indoor wall surface.

Fig. 9

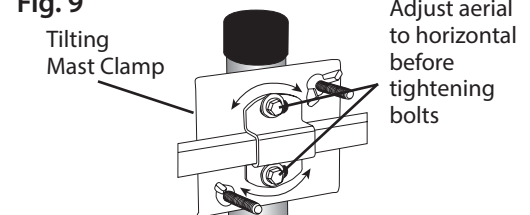
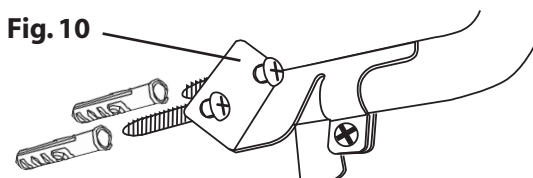


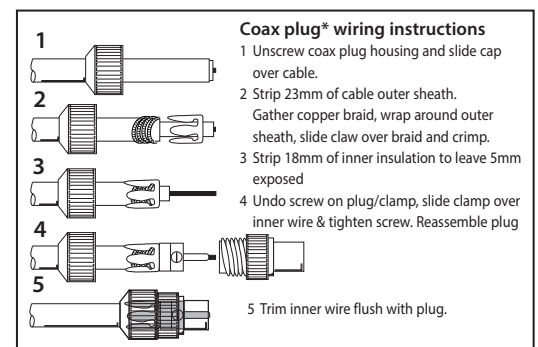
Fig. 10



For wall mounting attach with screws 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.**



## 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.

## Box contents

- 1x Central boom: assembly square aluminium (L) approx 780mm with 5x 'X' type elements
- 2x Reflector booms: Square aluminium (L) approx 330mm with 8x Reflector elements: Curved aluminium (L) approx 500mm
- 1x Bow tie shaped dipole and printed circuit balun
- 1x Tilting aerial clamp
- 1x Loft mounting kit
- 10m Digital coax cable and clips
- 1x Coax plug

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

If in a very weak signal area or for long cable\* runs, installing a masthead amplifier will improve the signal.

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

## Other Useful Websites for Digital Advice:

\*To find out what DTT channels should be available locally and to find out where your nearest transmitter is (distance and compass bearing) visit: **Digital UK Website:** [www.dtg.org.uk/industry/coverage.html](http://www.dtg.org.uk/industry/coverage.html)

**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)