

# High Gain Wideband Digital Aerial Kit

27887D/01



## USER GUIDE

Congratulations on the purchase of your high gain wideband aerial kit which is designed to receive both analogue and digital terrestrial signals. 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 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.

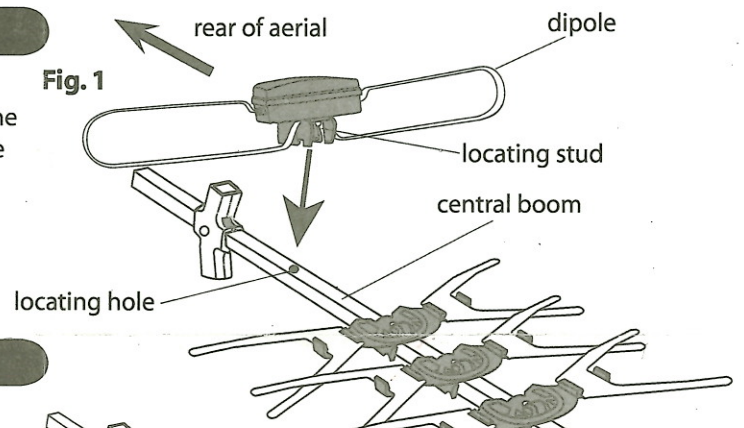
### Main Features

- Wideband – suitable for all UK TV reception areas, covering UHF channels 21 to 68
- Receives both digital and analogue 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.

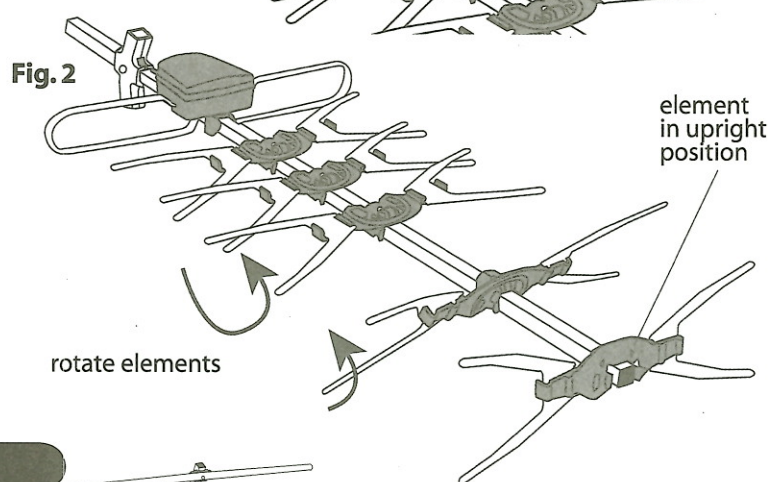
### A. Fitting the dipole assembly

1. 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.



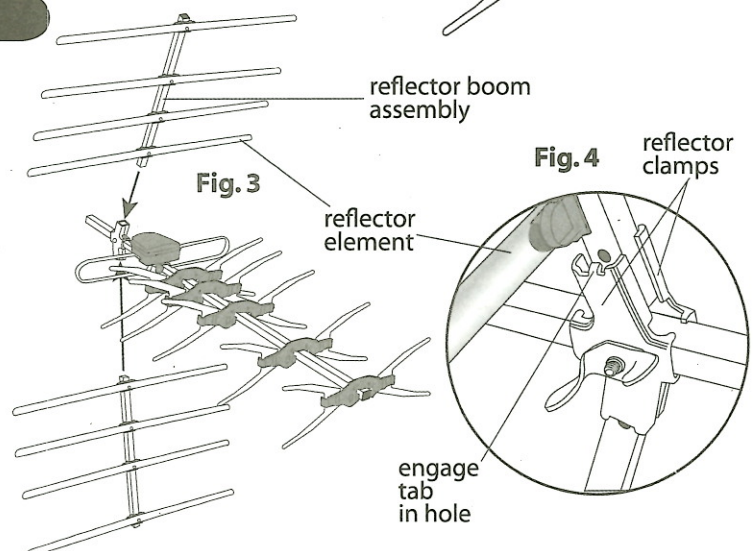
### B. Rotating the aerial elements

1. Rotate the elements about the central fixing clip until they 'snap' into an upright position as shown in Fig. 2.



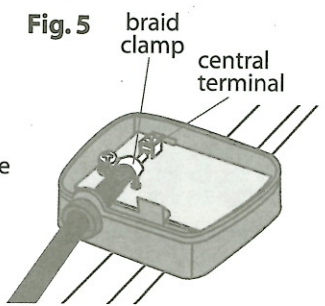
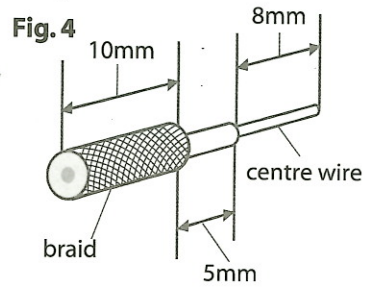
### C. Fitting the reflectors

1. Using the reflector clamps, screw and large wing nut, fix the reflector assemblies to the main aerial boom as shown in Fig. 3.
2. Check that the reflector clamp tabs locate in the holes of the reflector boom sections and that the wing nut is tight as shown in Fig. 4.
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. 4.
3. Feed prepared cable through the 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.



## E. Coax cable routing

For optimum performance it is very important that the coax cable should be routed as shown in Fig. 6.

**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.

## 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. 6 & 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. 7-8). The pole mount can be fitted to a roof timber (use screws only) or to a suitably sound indoor wall surface

Fig. 6

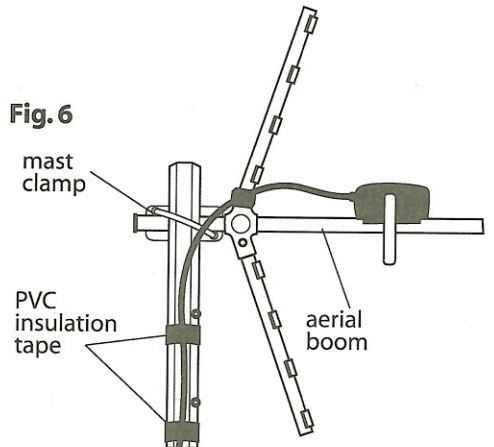


Fig. 7

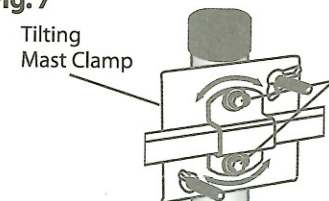
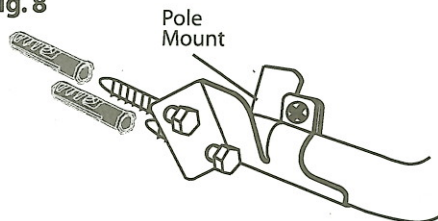


Fig. 8



Attach with bolts and wallplugs supplied on both sides of mount (far side not shown)

**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

**Customer Careline: 08457 573 479**

Local rate UK number, Monday to Friday 9am-5pm

**Technical Website:** <http://technical.philex.com>

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

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.

1x Aerial clamp

1x Loft mounting kit

10m Digital coax cable and clips

1x Coax plug



Waste electrical and electronic products must not be disposed of with household waste.

Please recycle where facilities exist.

Check with your Local Authority or Retailer for recycling advice.

## Other 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 and to find out where your nearest transmitter is (distance and compass bearing) visit: [www.dtg.org.uk/retailer/coverage.html](http://www.dtg.org.uk/retailer/coverage.html)

