

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 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.

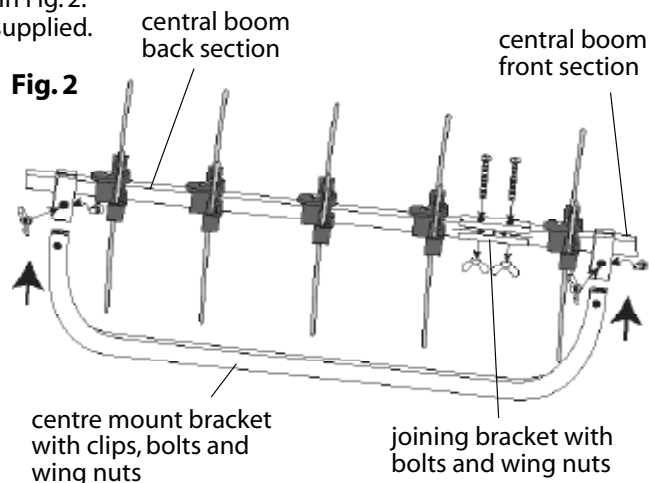
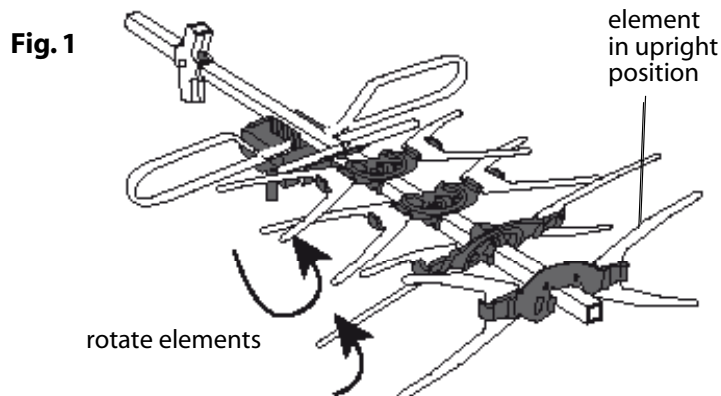
WARNING Every aerial installation is different in nature. To fit suitable brackets, fixings and poles/masts you need to take into consideration:
 a.) The state and type of surface being mounted to. b.) The weight of the assembly to be mounted. c.) The exposure to and effect of prevailing winds. Fixings 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 UHF channels 21 to 60
 - Receives all digital TV signals on 470 - 790MHz
 - 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.**

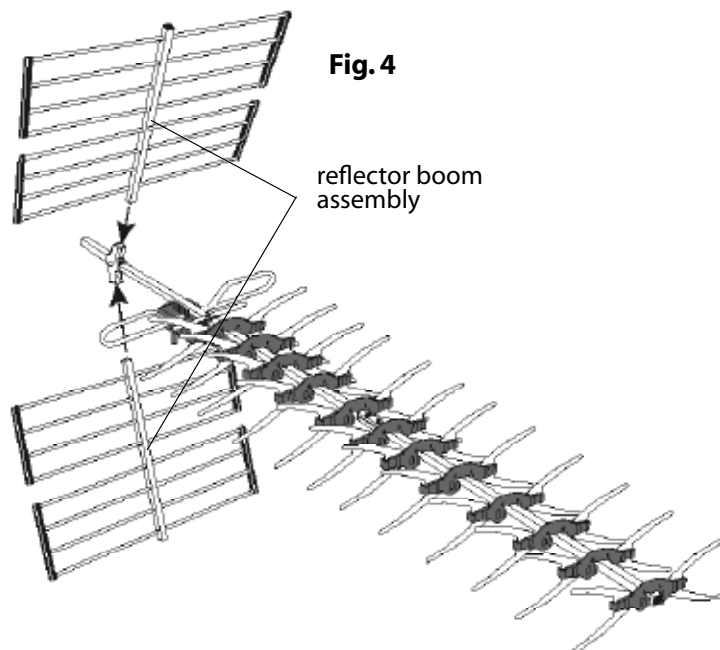
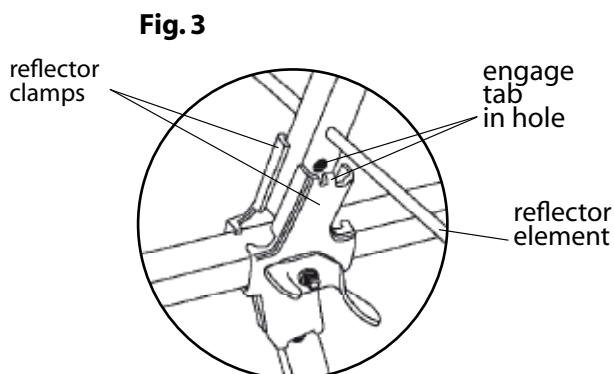
A. Rotating aerial elements, central boom and centre mount assembly

1. Rotate the elements about the central fixing clip until they 'snap' into an upright position as shown in Fig. 1.
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. 2.
3. Attach centre mount bracket in the position shown using the clips supplied.



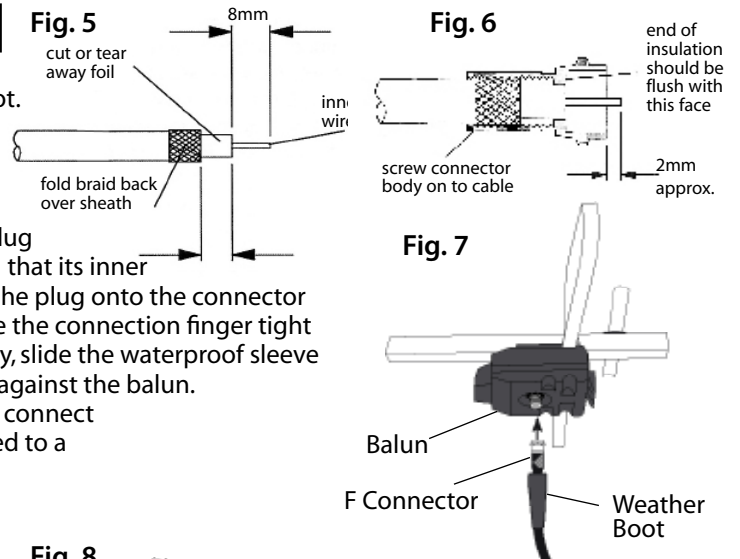
B. Fitting the reflectors

1. Using the reflector clamps, screw and large wing nut, fix the reflector assemblies to the main aerial boom see Fig. 4.
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. 3.



C. Connecting coax cable

1. Before preparing and stripping cable ready for connection, feed the aerial end of the coax cable through the weather boot.
2. Prepare cable as shown in Fig. 5. Fold the braid wires of the cable back over the sheath and twist the F plug supplied on to the cable. The inner wire of the cable should protrude about 2 mm beyond the nut end of the plug see Fig. 6
3. To connect the cable to the aerial, offer up the cable, with 'F' plug attached to the F socket on the bottom of the balun, ensuring that its inner wire enters the socket's centre contact. Screw the nut part of the plug onto the connector body and tighten gently with a spanner (11 mm). Do not leave the connection finger tight but do not over tighten as this could damage the balun. Finally, slide the waterproof sleeve as far as it will go over the connector body, so that it butts up against the balun.
4. The other end of your cable can be fitted with a coax plug* to connect to a TV/set top box etc. (see wiring instructions below), or wired to a wall outlet* following manufacturers instructions. *Not supplied.



D. 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 Fig. 8. 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 the mast bracket to find the most evenly balanced position, this will minimise the strain on aerial, bracket and mast.

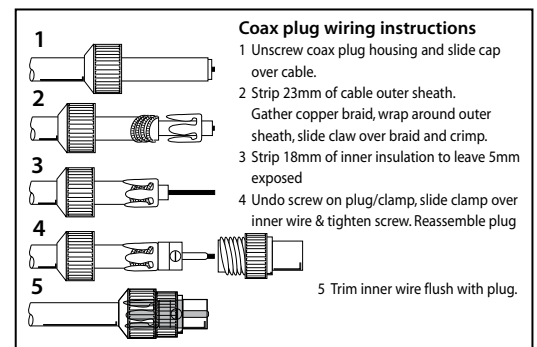
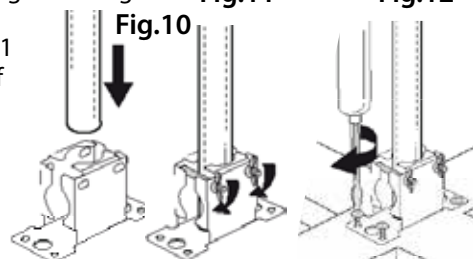
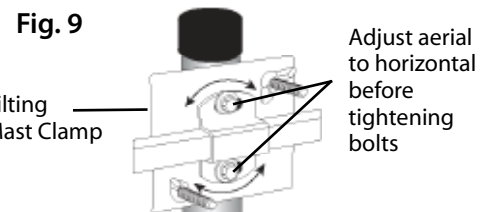
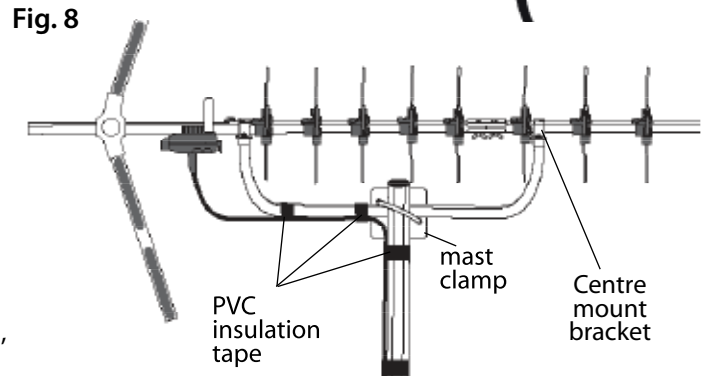
Before mounting check that the mast is in good condition and firmly fixed.

1. Using the clamp supplied fix the aerial to the mast - see Fig. 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, if there is enough space, your aerial can be loft mounted, although this will cause some loss of signal strength.

Assemble the pole mount and mast clamp as shown opposite (Figs 10, 11, 12). The pole mount can be fitted to a roof timber (using screws provided) or to a suitably sound wall surface.

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.

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, with 11x rotating 'X' type elements
- 2x Reflector booms: square aluminium with 8x reflector elements
- 1x Centre mount bracket with clips: assembly square aluminium
- 1x Bow tie shaped dipole & printed circuit balun with F connection
- 1x Tilting Mast Clamp
- 1x Loft mounting kit
- 1x Twist-on F plug with weather boot
- 10m Coax cable

Useful Websites for Digital Advice

*To find out what DTT channels should be available locally go to: <http://www.dtg.org.uk/industry/coverage.html> and enter postcode. To view your local transmitter's distance and compass bearing select "Trade view" from top bar.

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

Technical Website: www.philex.com/support

E-mail Support: technical@philex.com