



## ASSEMBLY INSTRUCTIONS

### MODEL AE409L

### High Gain 477 MHz Colinear Type Mobile Antenna

The AE409L can be assembled as either a 6 dBi or a 9 dBi mobile antenna.

Please confirm that all components have been supplied in the package without loss or damage, according to the parts list overleaf.

#### ASSEMBLING 6 dBi ANTENNA

1. Refer to Fig 1. Locate Element A, identified by the black phasing coil.
2. Insert Element A on to Element B and tighten the Allen Screw using the Allen Key provided.

#### ASSEMBLING 9 dBi ANTENNA

1. Refer to Fig 2. Locate Elements C and D, identified by the Blue phasing coils.
2. Insert Element C in to Element B and tighten Allen Screw.
3. Insert Element D on to Element C and tighten Allen Screw.

#### MOUNTING

A range of optional mounting brackets are available from your local GME Retailer.

#### TUNING

Tuning should not normally be required. However, marginal adjustment can be made using the following methods:

- **6 dBi Antenna:** Loosen the Allen screw shown in Fig.1 and move Element A up or down on Element B. Re-tighten Allen screw when adjusted.
- **9 dBi Antenna:** Loosen the Allen screws shown in Fig. 2 and move Elements C and D up or down. Re-tighten Allen screws when adjusted.

#### GENERAL

Your AE409L can be folded down by loosening the knurled tubing above the base coil, (Fig.1) and sliding up. The antenna can now be folded down.

Keep the Allen Keys in the car glove box should you require to remove or adjust the antenna at a later date.

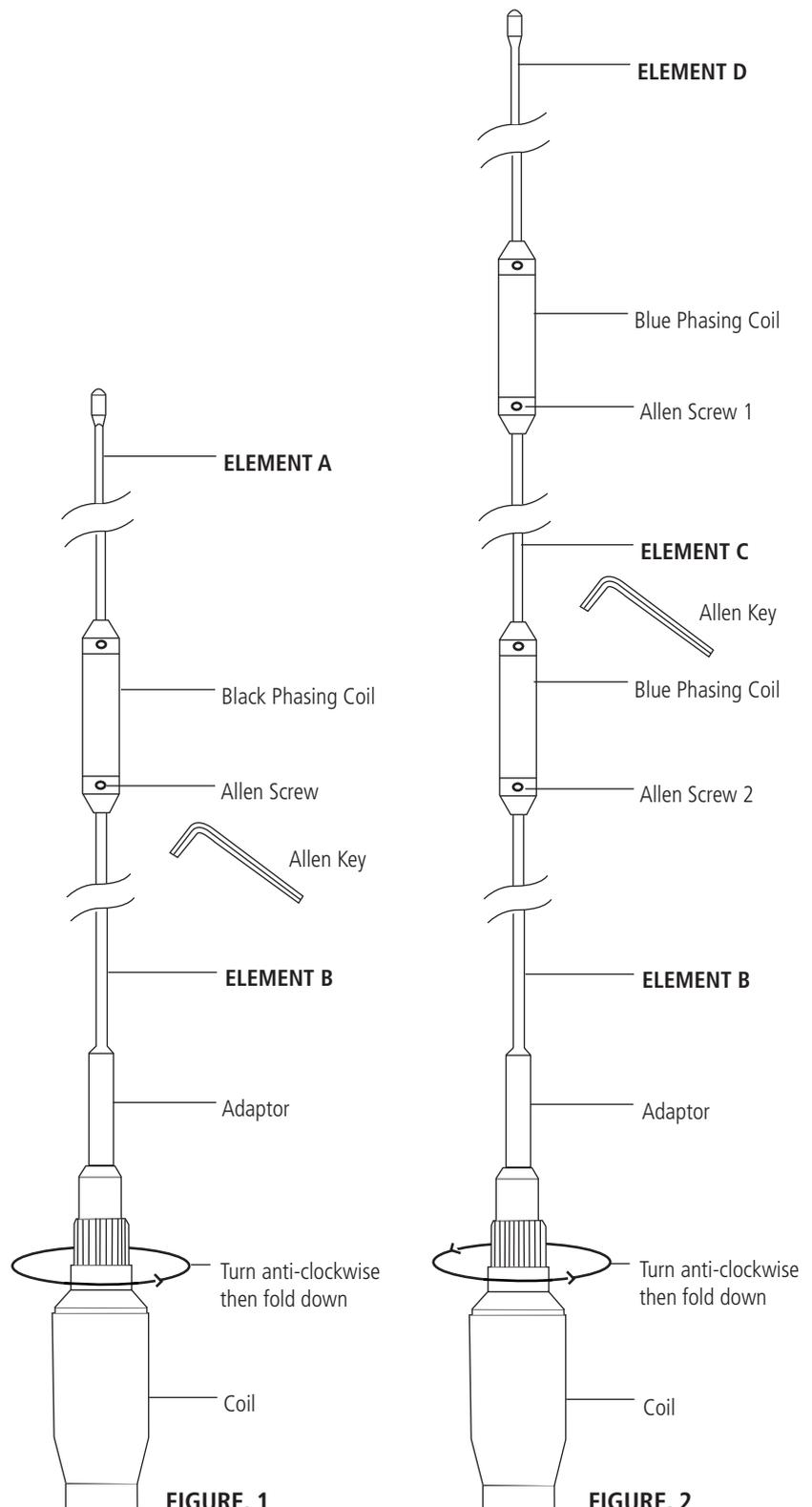


FIGURE 1

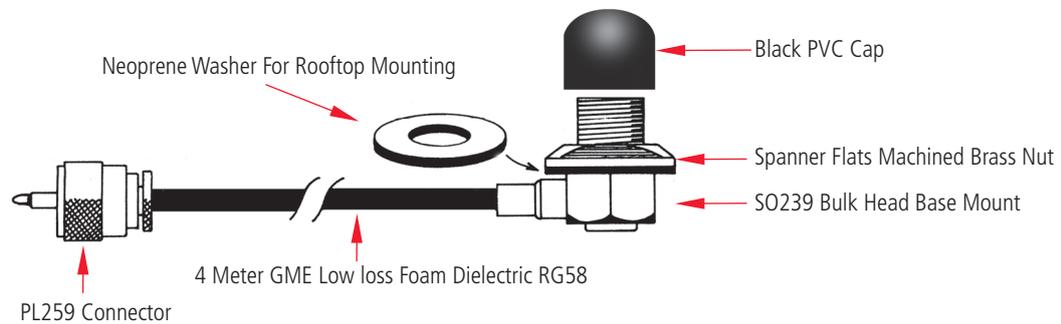
FIGURE 2

## SPECIFICATIONS

	6 dBi	9 dBi
Model	5/8 X 2 Colinear	5/8 X 3 Colinear
Frequency	477 MHz	477 MHz
Impedance	50 Ohms	50 Ohms
VSWR	Less than 1.5	Less than 1.5
Max. Input Power	25 W	25 W
Length	825 mm	1285 mm
Weight	187 g (Elements A and B)	222 g (Elements B, C and D)

## PARTS LIST

Bag Name	Use For	Description	Qty
CA409	6 dBi Kit	Element A with Black Phasing Coil	1
CA409-1	9 dBi Kit	Element C with Blue Phasing Coil	1
		Element D with Blue Phasing Coil	1
AW002	Base Stub Assembly	Coil with Spanner Flats Machined Base Stub	1
		Element B with Adaptor	1
		2 mm L Type Allen Key	1
		CAUTION Instruction Sheet	1
ABL005	Lead Assembly	PL259 Connector	1
		4m GME Low Loss RG58 Coaxial Cable	1
		SO239 Bulk Head base Mount	1
		Neoprene Sealing Washer	1
		Spanner Flats Machined brass Nut	1
		Black PVC Cap (13.5φx17mm)	1
P/N. 310334	Assembly Instructions	Drawing No. 42704-3 Assembly Instructions	1



### ABL005 LEAD ASSEMBLY

## CAUTION

The AE409 UHF antenna is supplied with spanner flats machined onto the base below the large black matching coil cover. The antenna should be firmly tightened onto its base and cable assembly using a suitable **SPANNER**. ( See Diagram 1).

**DO NOT** tighten the antenna by gripping the large matching coil cover, as this may damage the matching coil connection causing poor performance and voiding the warranty.



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[www.gme.net.au](http://www.gme.net.au)

DIAGRAM. 1

