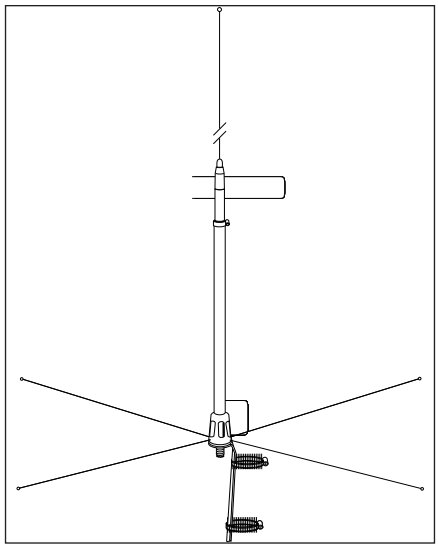
FB1136
Fixed Base Station Antenna

SPECIFICATIONS

Frequency:	136 - 230 MHz
Gain:	3.6 dBd
Type:	5/8 over 1/2 Wave
VSWR:	<1.5:1
Power:	200 watts
Windload:	100 mph
Height:	96″ max.
Weight:	2.3 lbs
Feed Conn.:	UHF Female



The FB1136 Fixed Base antenna can be easily adjusted for any one operating frequency. The frequency should be adjusted with the antenna elevated as high as practical above the ground before mounting the antenna on the tower or mast. When properly assembled and adjusted, the FB1136 will give a 3.6 dBd gain over a quarter wave antenna and will have a VSWR of less than 1.5:1 over a 1 MHz bandwidth at any frequency setting.

Pulse warrants to every user of a Larsen product that it will perform to its specified ratings and will be free of defects in materials and workmanship.

Pulse will repair or replace without charge any Larsen product which fails to meet this warranty within one year of the purchase date. Excluded is failure due to misuse such as striking objects, improper installation, and use beyond specifications.

Pulse will not be responsible for any incidental or consequential damages due to failure of a Larsen product under this warranty or any implied warranty.

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Kulglass® Series U.S. Patent #4,764,773; KGB Series U.S. Patent #5,099,252; #5,155,494 - 11/99

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PI00042, Rev. E, 04/19, 5190.4015

TUNE FOR SPECIFIC OPERATING FREQUENCY

1. Select frequency from the Adjustment Chart and begin tuning your antenna at Section A (see Figure 1).

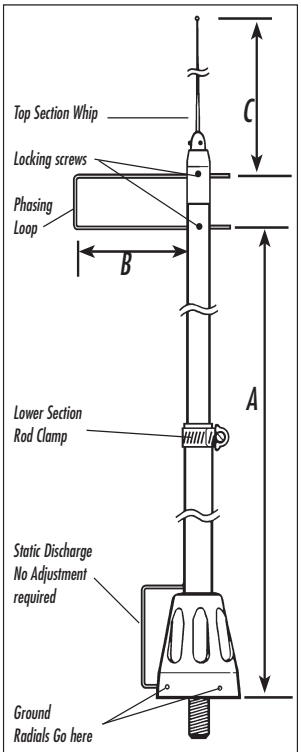

Figure 1 - See Adjustment Chart

2. To set the length of the aluminum lower Section A, measure from the lower rod of the phasing loop to the bottom of the base mount. Tighten lower section rod clamp securely.

3. To set the phasing loop (B), measure the length (according to the Adjustment Chart) from the aluminum tube to the vertical part of the phasing loop. Tighten the set screws using the enclosed Allen wrench.

4. Tune the top whip (C) by cutting to the appropriate length for the frequency desired (in conjunction with sections A & B). Allowance has been made in the chart for seating the rod in the upper insulator. Tighten the set screw firmly using the enclosed Allen wrench. **Note: Section C may be trimmed for fine tuning between the specified frequencies. Trim bottom section of whip.**

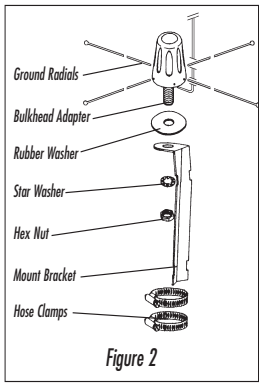

Figure 2

5. Remove hex nut, star washer and rubber washer from threaded bulkhead adapter on bottom of antenna (see Figure 2).

6. Insert ground radials into holes on base of antenna. Tighten set screws on underside of antenna base. Reinstall the rubber washer onto the base of the antenna.

7. Attach the heavy duty mounting bracket by sliding over threaded adapter, followed by star washer and hex nut. Tighten firmly.

8. Attach coax connector (not included) to threaded barrel adapter.

9. Slide enclosed hose clamps onto bracket. Then slide entire antenna onto mast. (Hose clamps are designed to fit any mast 3/4" to 1 1/2" in diameter.)

ADJUSTMENT CHART

FB1136 Antenna - All Dimensions in Inches

	A	B	C
Operating Frequency	Lower Section	Phasing Loop	Top Rod Section
136 MHz	40	8	54
138 MHz	39 1/2	7 3/4	53
140 MHz	39 1/4	7 5/8	51
144 MHz	39 1/16	7 9/16	47 7/8
148 MHz	37 15/16	7 5/16	46 9/16
152 MHz	36 15/16	7 1/16	45 3/8
156 MHz	36 1/16	6 13/16	44 3/16
160 MHz	35 1/16	6 1/4	43
164 MHz	34 1/8	6	42
168 MHz	33 9/16	5 3/8	40 1/2
172 MHz	32 3/4	5 1/8	40
176 MHz	32 1/8	5	39 3/16
180 MHz	31 3/16	4 7/8	38
184 MHz	30 1/2	4 3/4	37 7/16
188 MHz	29 3/4	4 1/2	36 5/8
192 MHz	29 1/4	4	35 7/8
196 MHz	28 3/4	3 3/4	35
200 MHz	27 3/4	3 5/8	34 1/4
204 MHz	27 1/2	3 1/2	33 3/4
208 MHz	26 1/2	3 3/8	33
212 MHz	26 1/4	3	32
216 MHz	25 1/4	2 7/8	31 1/8
220 MHz	25 1/8	2 3/4	30 3/4
224 MHz	25	2 5/8	30 1/2
228 MHz	24 3/4	2 1/4	29 3/4
232 MHz	24 1/4	2	29 1/4