Installation Instructions

100A Series Low Power FM Antenna

Type's: 100A-1M, 100A-2F, 100A-2F-HW, 100A-4F-HW

Notice
The installation, maintenance, or removal of antenna systems requires qualified, experienced personnel. ERI installation instructions are written for such personnel. Antenna systems should be inspected once a year by qualified personnel to verify proper installation, maintenance, and condition of equipment. ERI disclaims any liability or responsibility for the results of improper installation practices.

READ THE INSTRUCTIONS THOROUGHLY BEFORE ASSEMBLY

Preparation
Before beginning the assembly and installation of the 100A Series antenna system, make sure all parts are present.

Tools Required (not included)
- 5/32 Inch Allen wrench
- 9/16 Inch Open-end wrench
- Adjustable wrench (15/16 Inch Capacity)
- Ruler or Tape Measure accurate to 1/32 inch (.03 in)

NOTE: A torque wrench adaptable to tools mentioned above will be helpful in the installation process.

Parts
1. Element Boom Assembly (qty 1)
2. Element Arm Assembly (qty 2)
3. Arm Extender Kit (qty 4)
4. Universal Mounting Clamps (qty 2)
5. Cable Ties (qty 10)

* The parts listed are for the AE-100A-1M.

Please Read the Following before Installing Your Antenna

If your antenna is/was ordered as a "special" or "directional" antenna it may come with additional customized parts and factory tuning. If so, a set of customized drawings are provided for the installation and supersedes these and all other instructions. No additional tuning will be required unless you are willing to attempt an on-site, as-mounted trial and error tuning process (see below, Improving the Match of Your Standard 100 Series Antenna).

Standard 100 Series Information
The 100 Series antenna provides a knock-down kit of components that can be quickly assembled into a basic FM circular polarized broadcast antenna. The element feed consists of a 1/27" pigtail cable terminated in a male 7-16 DIN connector. This cable is rated to handle 1kW. The rating becomes 2kW when the elements are assembled into an array of two or more bays using power dividers. The antenna's optimum operating frequency is established by setting the dipole arm extenders, feed strap position and spacing of elements. The information for setting these variables is charted in the appropriate settings table. When properly adjusted the antenna should provide an acceptably low VSWR, however, please note:

During development the "standard" 100 Series antenna, in all its currently offered configurations, was carefully assembled and adjusted on ERI's test tuning tower to deliver a VSWR match of 1.15:1 or lower when set per chart. It is possible that your match could be sub-optimized due to your specific surroundings and mounting configuration. Nevertheless, your VSWR should never exceed a 1.5:1.

Half-Wave 100 Series Applications
The half-wave spacing of elements provides a practical solution to the problem of downward radiation. Due to the interactions between flipped elements when arranged as half-wave spaced 2-bay or 4-bay arrays, the match is flatter over a wider range of frequencies (typically 6 MHz) than full wave spaced antennas. Therefore the settings table for half-wave antennas is much reduced and only four setting points are charted.

Improving the Match of Your 100 Series Antenna
The antenna was designed to have an optimized match and bandwidth on a small triangular tower or pole. If you desire that the antenna be tuned in its actual environment due to an unacceptable mismatch, follow these steps to attempt to reduce reflected energy.

1.) Reposition the element's feed strap to either one position above and/or below the starting position. Use the best of the three positions and move on to step 2.

2.) Readjust the dipole's arm tip length in 1/4" increments to reach minimal VSWR. Realize that the longer the dipole arm is, the more likely it will shift a null (as indicated on an analyzer sweep) to a lower frequency.

Use the below area to record your purchase for future reference.

100 Series Model Number: ______________________
Operating Frequency: ______________________
When purchased: ______________________
Agents Phone Number: ______________________
Antenna Match: ______________________

Electronics Research, Inc., 7777 Gardner Road, Chandler, IN 47610 USA | www.erin.com | 1 (812) 925-6000
Step 1: Secure the Feed Grounding Ring to the Element Arm
1. To ensure a good electrical connection between the Grounding Ring and the Element Arm, temporarily remove the 5/16 wing-nut, lock-washer and flat-washer from the grounding set-screw.
2. Next, locate your frequency range and antenna type number and find the corresponding grounding ring position on assembly drawing chart.
3. Now slide the Grounding Ring over the spot that corresponds to the correct grounding ring position.
4. Using a 5/32 Allen wrench, tighten the set screw to 11 lb-ft (15 N-m) torque imbedding the screw into the Element Arm.
5. Repeat Step 1 for the remaining Element Arm assemblies.

Step 2: Install Arm Extenders
1. Loosen the 15/16" End Fastener (brass nut found at each end of both element arms) to the point where the Arm Extenders can be freely inserted. NOTE: As shipped, the element arm's 5/16" end fasteners are pre-tightened in order to trap the assemblers' internal compression ring. Caution should be exercised while performing this operation. Removing the nut could result in the loss of the internal compression ring.
2. Insert an Arm Extender into each end of the Element Arm.
3. Locate your frequency range & antenna type number in the Tip Length table & find the corresponding Tip Length "L". NOTE: Be certain that you are using the length that corresponds both to your antenna frequency & type number.
4. Position each Arm Extender so that the exposed length is "L" (from the table). This length is measured from the top of the 5/16" clamping nut to the tip of arm extender. NOTE: The extender tip length is critical and must be set correctly.
5. Once the Arm Extender is set, secure the connection with an adjustable wrench & torque to 15 lb-ft (21 N-m).

Step 3: Mount the Element Arms to the Element Boom
1. Remove the mounting hardware (stainless steel 3/8 flat-washer, lock-washer & nut) from both Boom Cradle Brackets (Step 3a & 3b).
2. Place one Element Arm into each Boom Cradle Bracket with the Grounding Ring Stud pointing up.
3. Secure the arm to the Cradle Bracket using the mounting hardware (stainless steel 3/8 flat-washer, lock-washer and nut).
4. Tighten the cradle nut until the cradle's sharp grounding point is firmly seated into the Element Arm material and the lock washer is compressed, approximately 12 lb-ft (16 N-m) torque.

Step 4: Attach the Feed Strap
1. Loosen the feed insulator wing-nut and swing the strap from the shipped position (perpendicular to the Boom) to where the strap engages the Grounding Ring's protruding threaded studs (set-screws).
2. Fasten the strap to the two threaded studs; a proper connection is obtained when the strap is sandwiched between the two stainless-steel flat washers, lock washer and 5/16 inch wing-nut removed in Step 1. The Grounding Ring Wing-Nut is secured using 8 lb-ft (11 N-m) of torque applied to the wing-nut.
3. Hand tighten the insulator wing nut taking care not to exceed the 3 lb-ft (4 N-m) torque rating.

Step 5: Secure the Antenna to its Support Structure
A Universal Mounting Clamp Kit is included with the antenna for ease of mounting to the tower leg. The Brackets supplied mount to legs ranging from 01.25 thru 05.00. The kit generally eliminates the need for any additional brackets, however chain and "J" bolts can be ordered for larger pole installations.

For Technical Support call 877 ERI-LINE or 1 (812) 925-6000, or visit our website at www.erie.com

All designs, specifications, and availability of products and services presented in this publication are subject to change without notice. Publication 20100328001_AEN Revision 07 (2017-04-27) Copyright © 2016 Electronics Research, Inc. Chandler, IN 47105 USA
A) **ANTENNA INPUT** = 7/16 DIN MALE GAS BLOCK CONNECTOR. MATING LINE MUST HAVE 7/16 DIN FEMALE CONNECTOR. ANTENNA INPUT CONNECTOR IS ATTACHED TO 1/2" FROM CABLE. THIS ANTENNA FEED CABLE, (PIGTAIL) EXTENDS APPROX. 7.5 FT. PAST BOOM. THIS PIGTAIL MUST BE SECURED USING CABLE TIES (ITEM #6).
B) BRACKETS SUPPLIED MOUNT TO LEGS RANGING FROM 01.25 MIN. TO 03.00 MAX.

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**DETAIL A**

**GROUNDING RING POSITION & TIP LENGTH**

**TOP VIEW**

---

**AE-100A-1M CHART**

<table>
<thead>
<tr>
<th>FREQUENCY RANGE</th>
<th>TIP LENGTH - inch</th>
<th>TIP LENGTH - cm</th>
<th>GROUNDING RING POSITION</th>
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**BILL OF MATERIAL**

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<td>BOX (NOT SHOWN)</td>
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<td>AE-100A-N003</td>
<td>ELEMENT BOOM ASSEMBLY</td>
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**TOLERANCES**

OVERALL - NOT CUMULATIVE

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<td>2 PLACE DECIMAL</td>
<td>± .03</td>
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<tr>
<td>3 PLACE DECIMAL</td>
<td>± .010</td>
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**ANGLES**

± .5°

---

**FRACTIONAL**

± 1/16"
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SECTION B-B SCALE 1 / 4

DETAIL A GROUNDING RING POSITION & TIP LENGTH

TOWER LEG

GROUNDING RING POSITION (SEE CHART)

TIP LENGTH

SECTIO N B-B SCALE 1 / 4

GROUNDING RING POSITION & TIP LENGTH

TOWER LEG

TOP VIEW

BAY SPACING (SEE CHART)

BAY 1

BAY 2

ANTENNA INPUT = 7/16 DIN CONNECTOR - FEMALE (MATING LINE MUST HAVE A 7/16 DIN MALE CONN.)

WEEP HOLE THIS END (DOWN)

G.R.P. = GROUNDING RING POSITION**

**G.R.P. = GROUNDING RING POSITION**

BILL OF MATERIAL

<table>
<thead>
<tr>
<th>ITEM</th>
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1. PLACE DECIMAL .5 = .5
2. PLACE DECIMAL .10 = .10
3. PLACE DECIMAL .00 = .00
4. ANGULAR = 37° FRACTIONAL = 1/16"
When Bay 2 is installed, the element is to be facing downward as shown. For proper attachment, the plate must be moved to the opposite side of the boom as shown.

The element feed pigtail is approximately 7.5 ft. long and must be secured using cable ties supplied with Item #1.

Brackets supplied mount to legs ranging from Ø1.25 min. to Ø5.00 max.

Grounding Ring Position:

1. Bend Radius Tip
2. Tip Length
3. Grounding Ring Position

SECTION C-C

Scale 1 / 4

DETAIL A

(Grounding Ring Position & Tip Length)

DETAIL B

Top View

Red Band & Weep Hole

Tower Leg

Az Pattern

Bay 1 Cable Port

Bay 2 Cable Port

Antenna Input

7/16 DIN Connector - Female

(Mating line must have a 7/16 DIN male connector)

Tip Length

(See Chart)

Grounding Ring Position

(See Chart)

Bay 1 Spacing

Bay 2 Spacing

Bay 1 Spacing

Bay 2 Spacing

Bay 1

Bay 2

BAY SPACING (in)

BAY SPACING (cm)

GROUNDING RING POSITION

88.1 - 91.9

PD100A - 4 - 21

6.75

17.15

61.88

157.18

4

92.1 - 95.9

PD100A - 4 - 22

5.13

13.03

56.50

143.51

3

96.1 - 101.9

PD100A - 4 - 23

3.06

7.77

54.44

138.28

2

102.1 - 107.9

PD100A - 4 - 24

3.06

7.77

54.44

138.28

2

Tip Length (in)

Tip Length (cm)

Bay 1 Spacing

Bay 2 Spacing

Bay 1 Spacing Minus 8.45

Bay 2 Spacing Minus 8.45

BAY SPACING (SEE CHART)

GROUNDING RING POSITION (SEE CHART)

Bay 1 Cable Port

Bay 2 Cable Port

Antenna Input

7/16 DIN Connector - Female

(Mating line must have a 7/16 DIN male connector)

Tip Length

(See Chart)

Grounding Ring Position

(See Chart)

Bay 1 Spacing

Bay 2 Spacing

Bay 1 Spacing

Bay 2 Spacing

Bay 1

Bay 2

BAY SPACING (in)

BAY SPACING (cm)

GROUNDING RING POSITION

88.1 - 91.9

PD100A - 4 - 21

6.75

17.15

61.88

157.18

4

92.1 - 95.9

PD100A - 4 - 22

5.13

13.03

56.50

143.51

3

96.1 - 101.9

PD100A - 4 - 23

3.06

7.77

54.44

138.28

2

102.1 - 107.9

PD100A - 4 - 24

3.06

7.77

54.44

138.28

2

Tip Length (in)

Tip Length (cm)

Bay 1 Spacing

Bay 2 Spacing

Bay 1 Spacing Minus 8.45

Bay 2 Spacing Minus 8.45

BAY SPACING (SEE CHART)

GROUNDING RING POSITION (SEE CHART)
SECTION B-B

DETAIL A

GROUNDING RING POSITION & TIP LENGTH

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BRACKETS & HOSE CLAMPS
FOR MOUNTING ARE SUPPLIED
WITH POWER DIVIDER

TOP VIEW

TIP LENGTH
(SEE CHART)

GROUNDING RING
POSITION (SEE CHART)

SEE DETAIL "A"

"BAY SPACING"
(SEE DETAIL "C"

INPUT FROM MIDDLE
POWER DIVIDER

RED BAND & WEEP HOLE
THIS END (DOWN)

OUT TO POWER
DIVIDERS

RED BANDS & WEEP HOLE
THIS END (DOWN)

GROUNDING RING
POSITION (SEE CHART)

BAY 1

BAY 2

BAY 3

BAY 4

Az PATTERN

INPUT FROM MIDDLE
POWER DIVIDER

RED BAND & WEEP HOLE
THIS END (DOWN)

BAYS #3 & #4
CABLE PORTS

3X (32.75)

GENERAL

1 PLACE DECIMAL: ± .03
2 PLACE DECIMAL: ± .03
3 PLACE DECIMAL: ± .010
ANGULAR: ± 0.5°
FRACTIONAL: ± 1/16"
BRACKETS SUPPLIED MOUNT TO LEGS RANGING FROM Ø1.25 MIN. TO Ø5.00 MAX.
ELEMENT FEED PIGTAILS ARE APPROX. 7.5 FT. LONG & MUST BE SECURED USING CABLE TIES SUPPLIED WITH ITEM #1.
WHEN BAY 2 & 3 IS INSTALLED THE ELEMENT IS TO BE FACING DOWNWARD AS SHOWN. FOR PROPER ATTACHMENT THE PLATE MUST BE MOVED TO OPPOSITE SIDE OF BOOM AS SHOWN.

MIN. BEND RADIUS, TYP.

GROUNDING RING POSITION & TIP LENGTH

SEE DETAIL "A" THIS SHEET

TOWER LEG

SEE DETAIL "A" (GROUNDING RING POSITION & TIP LENGTH)

BAY 1 CABLE PORT

BAY 2 CABLE PORT

BAY 3 CABLE PORT

BAY 4 CABLE PORT

GROUNDING RING POSITION (SEE CHART)

RED BAND & WEEP HOLE THIS END (DOWN)

RED BAND & WEEP HOLE THIS END (DOWN)

RED BAND & WEEP HOLE THIS END (DOWN)

RED BAND & WEEP HOLE THIS END (DOWN)

SEE DETAIL "B" SHT. 2

BAY 1

BAY 2

BAY 3

BAY 4

TIP LENGTH (SEE CHART)

.03

3.0" MIN. BEND RADIUS, TYP.

TOWER LEG

BRACKETS SUPPLIED MOUNT TO LEGS RANGING FROM Ø1.25 MIN. TO Ø5.00 MAX.
ELEMENT FEED PIGTAILS ARE APPROX. 7.5 FT. LONG & MUST BE SECURED USING CABLE TIES SUPPLIED WITH ITEM #1.
WHEN BAY 2 & 3 IS INSTALLED THE ELEMENT IS TO BE FACING DOWNWARD AS SHOWN. FOR PROPER ATTACHMENT THE PLATE MUST BE MOVED TO OPPOSITE SIDE OF BOOM AS SHOWN.

MIN. BEND RADIUS, TYP.

GROUNDING RING POSITION & TIP LENGTH

SEE DETAIL "A" THIS SHEET

TOWER LEG

SEE DETAIL "A" (GROUNDING RING POSITION & TIP LENGTH)

BAY 1 CABLE PORT

BAY 2 CABLE PORT

BAY 3 CABLE PORT

BAY 4 CABLE PORT

GROUNDING RING POSITION (SEE CHART)

RED BAND & WEEP HOLE THIS END (DOWN)

RED BAND & WEEP HOLE THIS END (DOWN)

RED BAND & WEEP HOLE THIS END (DOWN)

RED BAND & WEEP HOLE THIS END (DOWN)

SEE DETAIL "B" SHT. 2

BAY 1

BAY 2

BAY 3

BAY 4

TIP LENGTH (SEE CHART)

.03

3.0" MIN. BEND RADIUS, TYP.

TOWER LEG

BRACKETS SUPPLIED MOUNT TO LEGS RANGING FROM Ø1.25 MIN. TO Ø5.00 MAX.
ELEMENT FEED PIGTAILS ARE APPROX. 7.5 FT. LONG & MUST BE SECURED USING CABLE TIES SUPPLIED WITH ITEM #1.
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MIN. BEND RADIUS, TYP.

GROUNDING RING POSITION & TIP LENGTH

SEE DETAIL "A" THIS SHEET

TOWER LEG

SEE DETAIL "A" (GROUNDING RING POSITION & TIP LENGTH)

BAY 1 CABLE PORT

BAY 2 CABLE PORT

BAY 3 CABLE PORT

BAY 4 CABLE PORT

GROUNDING RING POSITION (SEE CHART)

RED BAND & WEEP HOLE THIS END (DOWN)

RED BAND & WEEP HOLE THIS END (DOWN)

RED BAND & WEEP HOLE THIS END (DOWN)

RED BAND & WEEP HOLE THIS END (DOWN)

SEE DETAIL "B" SHT. 2

BAY 1

BAY 2

BAY 3

BAY 4

TIP LENGTH (SEE CHART)

.03

3.0" MIN. BEND RADIUS, TYP.

TOWER LEG

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MIN. BEND RADIUS, TYP.

GROUNDING RING POSITION & TIP LENGTH

SEE DETAIL "A" THIS SHEET

TOWER LEG

SEE DETAIL "A" (GROUNDING RING POSITION & TIP LENGTH)

BAY 1 CABLE PORT

BAY 2 CABLE PORT

BAY 3 CABLE PORT

BAY 4 CABLE PORT

GROUNDING RING POSITION (SEE CHART)

RED BAND & WEEP HOLE THIS END (DOWN)

RED BAND & WEEP HOLE THIS END (DOWN)

RED BAND & WEEP HOLE THIS END (DOWN)

RED BAND & WEEP HOLE THIS END (DOWN)

SEE DETAIL "B" SHT. 2

BAY 1

BAY 2

BAY 3

BAY 4

TIP LENGTH (SEE CHART)

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MIN. BEND RADIUS, TYP.

GROUNDING RING POSITION & TIP LENGTH

SEE DETAIL "A" THIS SHEET

TOWER LEG

SEE DETAIL "A" (GROUNDING RING POSITION & TIP LENGTH)

BAY 1 CABLE PORT

BAY 2 CABLE PORT

BAY 3 CABLE PORT

BAY 4 CABLE PORT

GROUNDING RING POSITION (SEE CHART)

RED BAND & WEEP HOLE THIS END (DOWN)

RED BAND & WEEP HOLE THIS END (DOWN)

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SEE DETAIL "B" SHT. 2

BAY 1

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GROUNDING RING POSITION & TIP LENGTH

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TOWER LEG

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BAY 1 CABLE PORT

BAY 2 CABLE PORT

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GROUNDING RING POSITION (SEE CHART)

RED BAND & WEEP HOLE THIS END (DOWN)

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SEE DETAIL "B" SHT. 2

BAY 1

BAY 2

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BAY 4

TIP LENGTH (SEE CHART)

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3.0" MIN. BEND RADIUS, TYP.

TOWER LEG