



## Boom Insulator Arm and Final Assembly Instructions

*Please use the following instructions to aid in the final assembly of your Weed Zapper boom.  
Please see video on our website labeled: Front Applicator Boom Assembly*

1. With the boom hooked to tractor, use hydraulics to slowly lower boom wings to field position (down).
2. Bring bundle or bundles of insulator arms next to boom and remove banding that secures them together.
3. Notice there are 2 different options for insulator arms, the arms themselves will either measure 54" and 59" or the arms will have 2 different VERTICAL bushing locations that are 5" apart.
4. If your Weed Zapper applicator boom is a flex fold it will have either 3 or 5 sections. The 3 section **20'** or **30'** model has Left wing , Right wing and Center section. The 5 section **40'/ 44'** model has outer Left wing, inner Left wing, Center section, inner Right wing and outer Right wing.
5. ON ALL MODELS (3 & 5 sections) The Center Section will use Long **59"** arms, each Left and Right inner wings will use Short arms **54"** .  
On the 5 section boom the OUTER wings will both use **59"** arms
6. Remove 5/8" bolts from boom pockets.
7. Insert insulator arms to the mounting pocket. Slide inward to deepest hole setting possible.
8. Slide pocket spacer plate alongside insulator arm and align with hole in arm. (This may also be done while sliding arm into pocket.)
9. Install 5/8" bolts and tighten until threads are into ny-lock portion of nuts.
10. Please also see the instructions for: "**Flexible Conduit Installation Instructions**".
11. Measure inward from the outside of the arms located next to the wing wires 8" and attach the "Small Black Angle Bracket" there with the screws positioned .
12. Attach each end of flexible conduit to "Small Black Angle Bracket".
13. Using a 1/4" bolt, connect each end of "HV Wing Transfer Cable" to the front electrode.

# Scratch Pad Lengths Per Model

**15'**: 3 x 64" Scratch Pads and 2 x 84" channel connectors

**20'**: 3 x 88" Scratch Pads (1 per section of boom)

**30'**: 6 x 64" Scratch pads (2 per section of boom) and 3 x 84" channel connectors

**40'**: 8 x 64" Scratch Pads (2 per section center, inner left, inner right) and 2 on each of the outer wings. Also included are 3 x 84" channel connectors.

**44'**: 6 x 64" Scratch Pads (2 per section center, inner left, inner right) and 2 84" Scratch Pads on each of the outer wings. Also included are 3 x 84" channel connectors.

## **HV Copper Electrode Length Per Model of applicator boom:**

**1.** Install electrodes on boom insulator arms before installing clamps. This will aid in clamp placement.

**2.** The first measurement given is the electrode lengths.

**3.** The measurements in (parenthesis) are for copper wire clamp placement. These clamps are used to connect both the Wing Wires and HV Cable to the electrodes. Measurements are approximate and are measured from either end of the copper tube to the center of the clamp placement.

**4.** These Electrode measurements are placed in order from the furthest outside of the boom, to center.

**5.** As this is a flexible boom with hinge points, it is necessary to have about 4" of electrode overlap at the hinge points. (About 2" of each electrode.)

**6.** See Page 26 Figure 4 for a picture of the boom and electrodes assembled.

### **40'+ Boom 5 Electrodes**

80" Electrode ( 11" hinge end), 108" Electrode (18"& 27" away from ends), 132" Electrode (2 clamps 39" away from ends), 108" Electrode (18"& 27" away from ends), 80" Electrode ( 11" from hinge end)

### **30'+ Boom 5 Electrodes**

60" Electrode x 1.5" diameter, 80" Electrode (28" away from end), 132" Electrode (34"& 98" away from ends), 80" Electrode (28" away from end), 60" Electrode x 1.5" diameter

### **20'+ Boom 3 Electrodes**

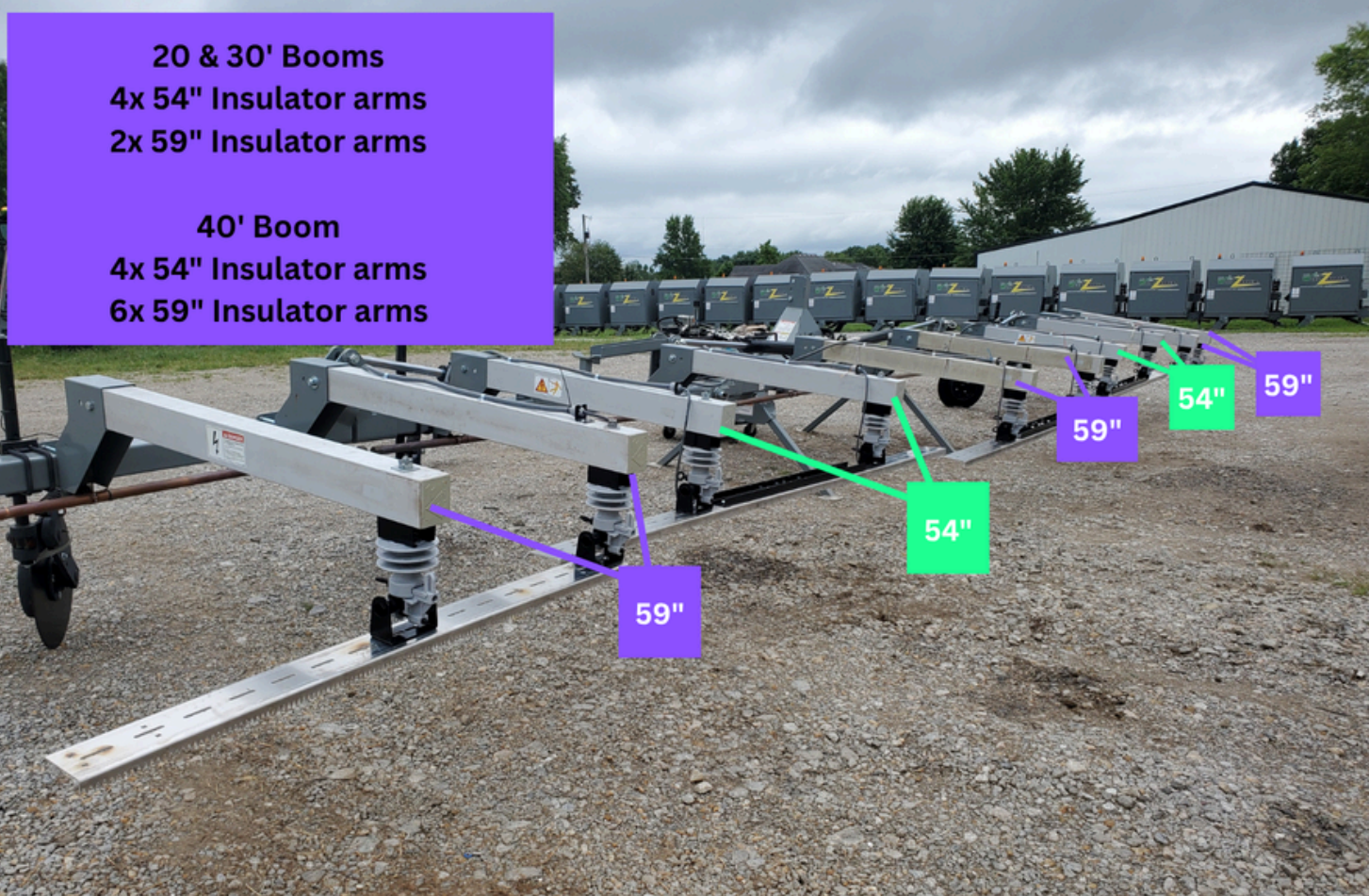
84" Electrode (22" away from end), 96" Electrode (19"& 77" away from ends), 84" Electrode (22" away from end)

### **15'+ Boom 3 Electrodes**

60" Electrode x 1.5" diameter, 132" Electrode (96" away from end), 60" Electrode x 1.5" diameter

**20 & 30' Booms**  
**4x 54" Insulator arms**  
**2x 59" Insulator arms**

**40' Boom**  
**4x 54" Insulator arms**  
**6x 59" Insulator arms**



59"

54"

59"

54"

59"