

Scratch Pad Instructions

WEAR GLOVES

**THIS APPLICATION BAR IS PATENTED. ANY REPRODUCTION OF THIS
WOULD BE SUBJECT TO PATENT INFRINGEMENT LAW**

1. Lay the appropriate lengths of Scratch Pads end to end with the teeth facing up if Zapping before July 1st, or down for Zapping after July 1st. **(photo #4)**
15' Will use 3 x 64" and 2 channel connectors
20' Will use 3 x 88" no channel connectors
30' Will use 6 x 64" and 3 channel connectors
40' Will use 8 x 64" and 3 channel connectors
44' Will use 6 x 64" 2 x 88"(outside wings) and 3 channel connectors
2. Locate the BLACK C channel connectors that join the Scratch Pad sections together. These are 84" BLACK C channel connectors.
(photo #3)
3. Use (8) 3/8" x 1" carriage bolts to join the Scratch pads to the 84" c. 2 at each end and 4 in the center. **(photo #3)**
4. The C channel connection plates should be evenly spaced over each Scratch Pad and be bolted with the smooth bolt head below the Scratch Pad and the nuts above. There will be 2 bolts used on either side of the seam and 1 additional bolt should be used towards the center of the BLACK C channel connectors. **(photo #3)**
5. Locate the Scratch Pad Hangers. The 15' booms will use (3) , the 20' & 30' booms will use (6) and 40' & 44' booms will use (10) Hangers .
The Hangers will be placed on either the TEETH side of the Scratch Pad or the Smooth side depending on the time of year. They will hang the Scratch Pad from the Large Insulators. Install the Hangers using (2) 3/8" x 1" bolts with the smooth head on the TOP. ONLY FINGER TIGHTEN for now. **(photo #1 & #3)**
6. Thread the Large Insulator onto the Steel Insulator Pin and tighten **(snug)** it.
7. Locate the Insulator Brace. Insert the Steel Insulator PIN through the insulator brace and then through correct vertical hole in the insulator arm. It will be towards the Crop End of the insulator arm. Check the gap between the **BASE** of the Steel Insulator Pin and the Insulator Brace. Add 5/8" washers as shims to fill any gap between the base of the steel insulator pin and the insulator brace. **(photo #2)**
8. Hang the sections from the Insulators in place of the copper pipes. **(photo #2)**
9. Use a drill with a 5/16" drill bit to place a hole in the Scratch Pad towards the inside of the large insulator at each section. Use 1/4" bolts to connect the wing wires and main HV Cable to the Scratch Pads. **(photo #1)**

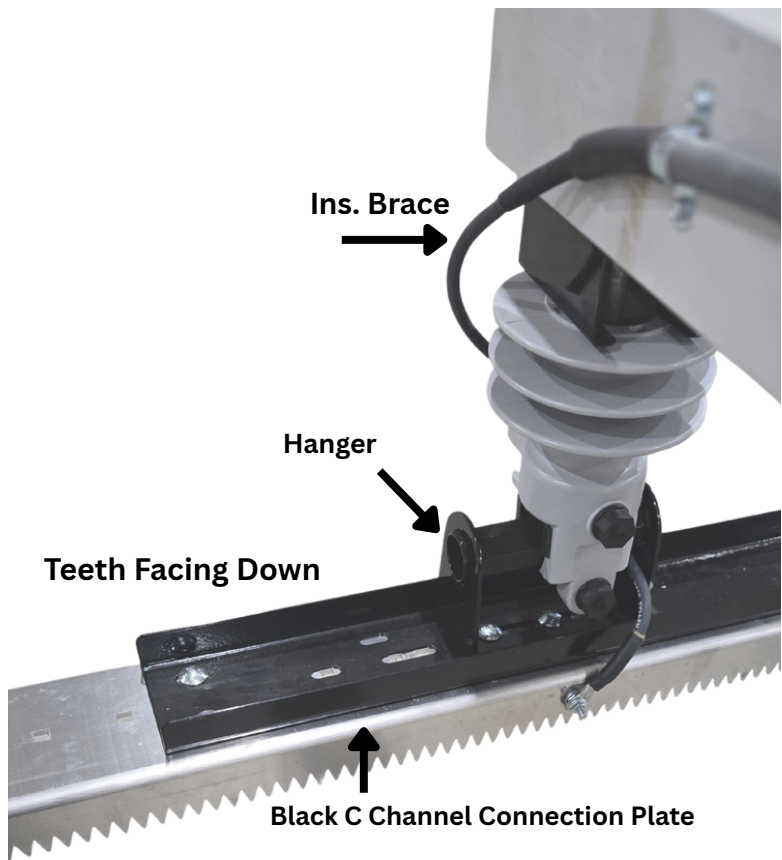


Photo 1



Photo 2

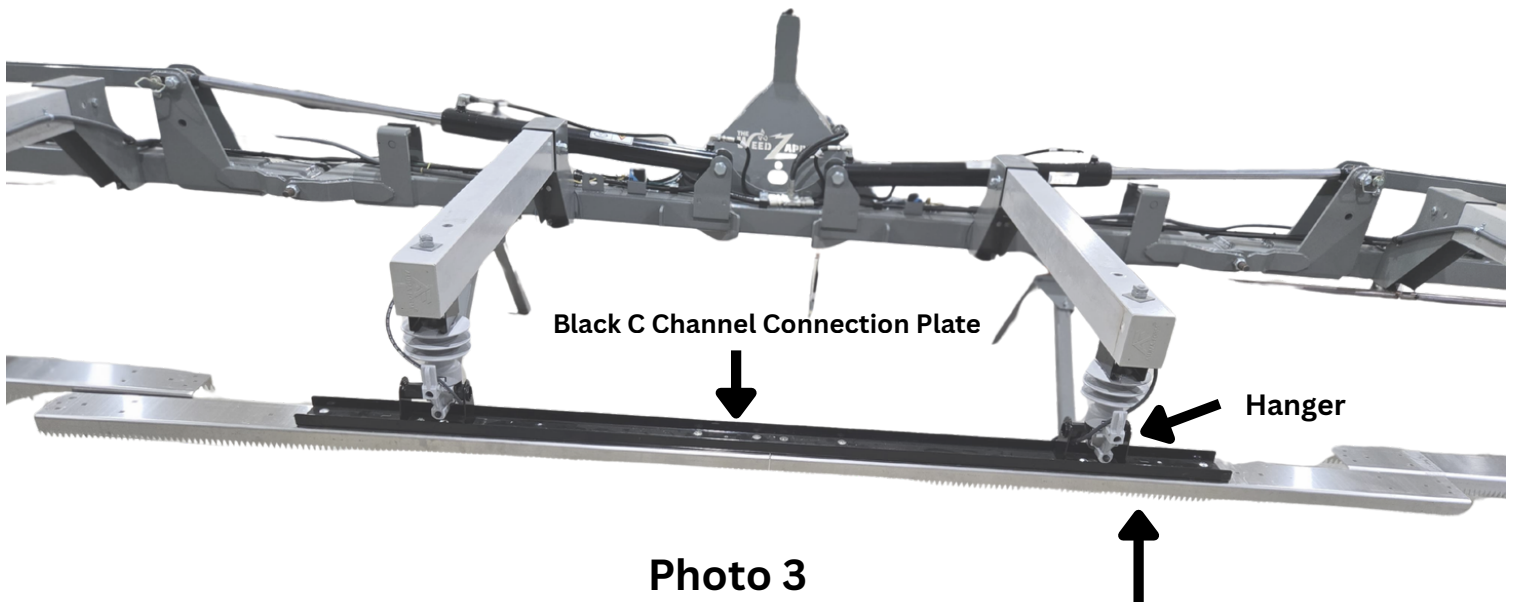
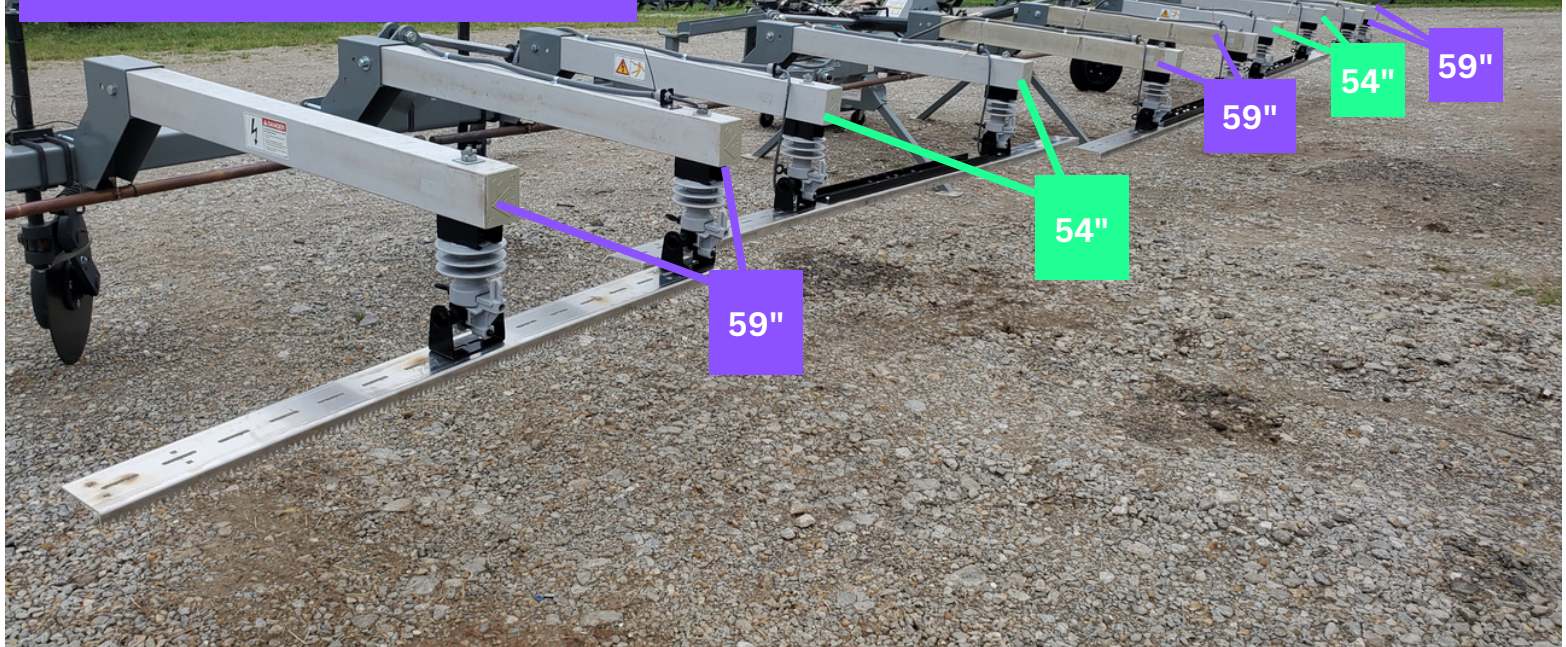


Photo 3

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

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



Upgrading Older Boom

1. To adapt the older boom, cut 4" of the **inner** wing insulator arms on a 40' boom and **outer** wing insulator arms on a 20'/30' boom.
2. Slide the arms that were just cut all the way in the pocket and redrill the hole with a 3/4" bit.
3. Reinstall the 5/8 x 5" bolt and retighten bolts.
4. Start with step #1 of the scratch pad instructions