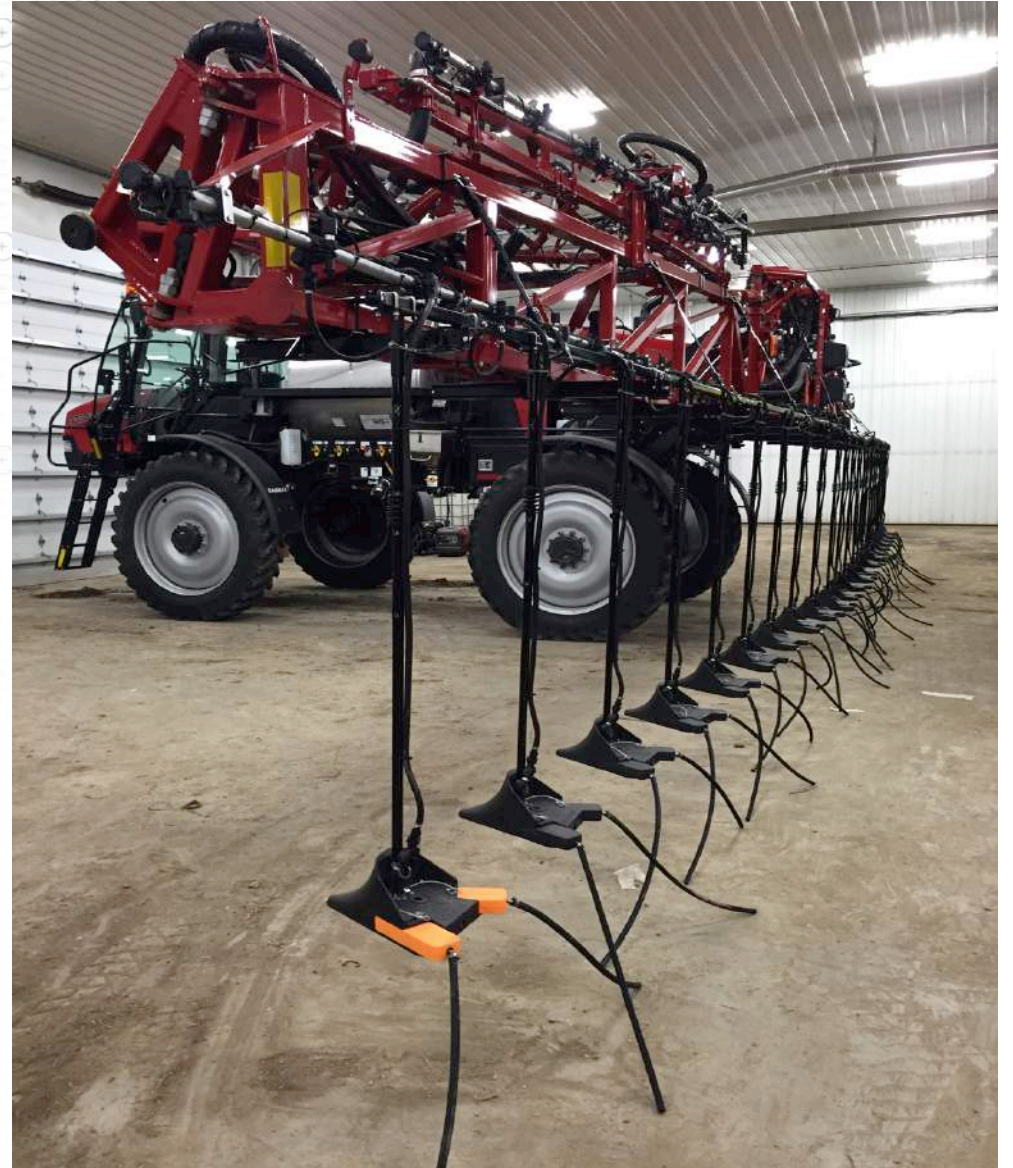




2015 360 Y-DROP ASSEMBLY INSTRUCTIONS

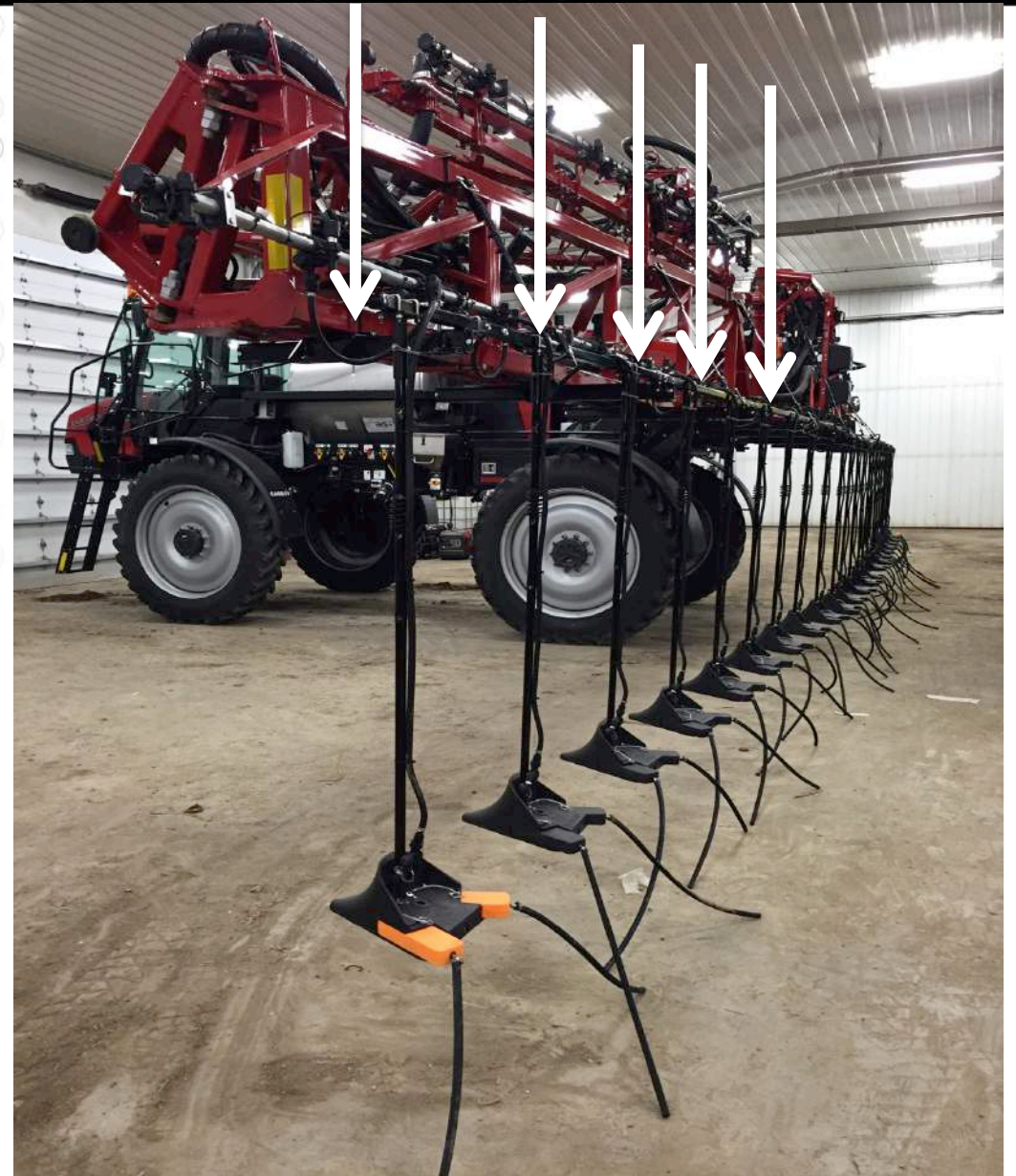
CASE 120' BOOM

It's important to know where each mounting bracket fits up, relative to the row spacing of the crop that will be serviced. The first position a 360 Y-DROP & 360 UNDERCOVER unit should be placed is the very center of the machine. This is critical in understanding the assembly of the system to the sprayer. This will give good guidance for mounting the system to your sprayer boom. There are, however, numerous permutations of booms among all sprayer models; it could very well be that your sprayer is not identical to the model in the following steps of the guide and pictures may differ from yours. While these steps will help you install most of your 360 Y-DROP system, you may need to custom fit some components, based on your particular boom.



1. From center of the machine, there are five (5) mounting zones on each of the primary side booms (first fold) in which the mounting brackets will be installed. This depends on the width of your boom and account for both 20" & 30" row spacing. **Extend the right and left primary booms (first fold) and measure from machine center, marking both ends of each of the following zones on both right and left primary booms:**

1. Zone 1: 80"-90" from center
2. Zone 2: 120"-140" from center
3. Zone 3: 180"-200" from center
4. Zone 4: 240"-260" from center
5. Zone 5: 300"-320" from center



2. **Assemble mounting bracket in Zone 1 on the boom and leave loose**, shown in Fig 2. The longer top and bottom plates are required to span the full boom section, front to back.

1. One (1) 6" z-slider bracket
2. Two (2) 19" plates
3. Two (2) 3" x 3/16" shim plates
4. Two (2) 3/8" x 5" bolts
5. Four (4) 3/8" flat washers
6. Two (2) 3/8" lock washers
7. Two (2) 3/8" nuts.

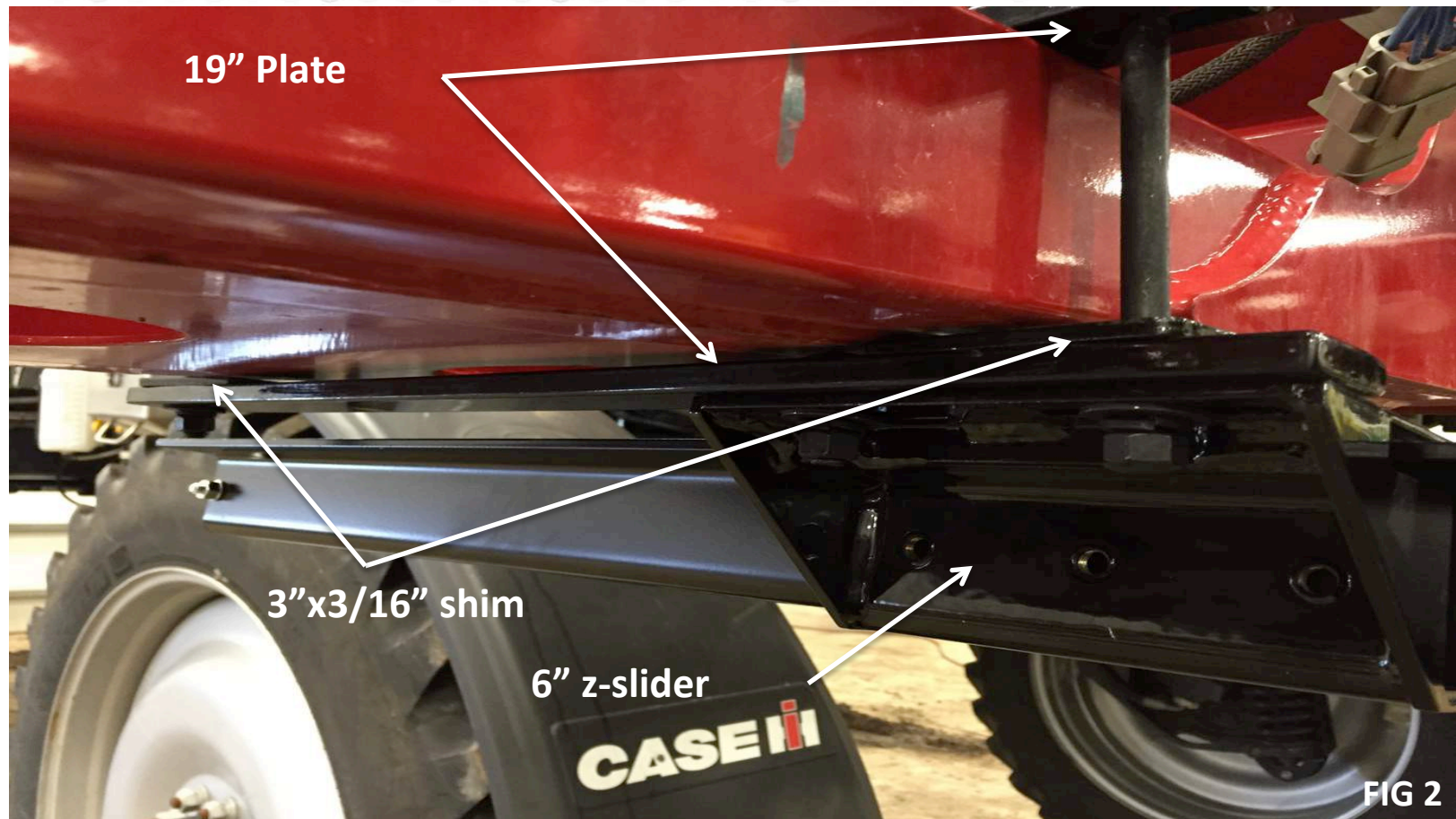


FIG 2

3. Install remainder of the mounting brackets in Zones 2 through 5 and leave loose, shown in FIG 3:

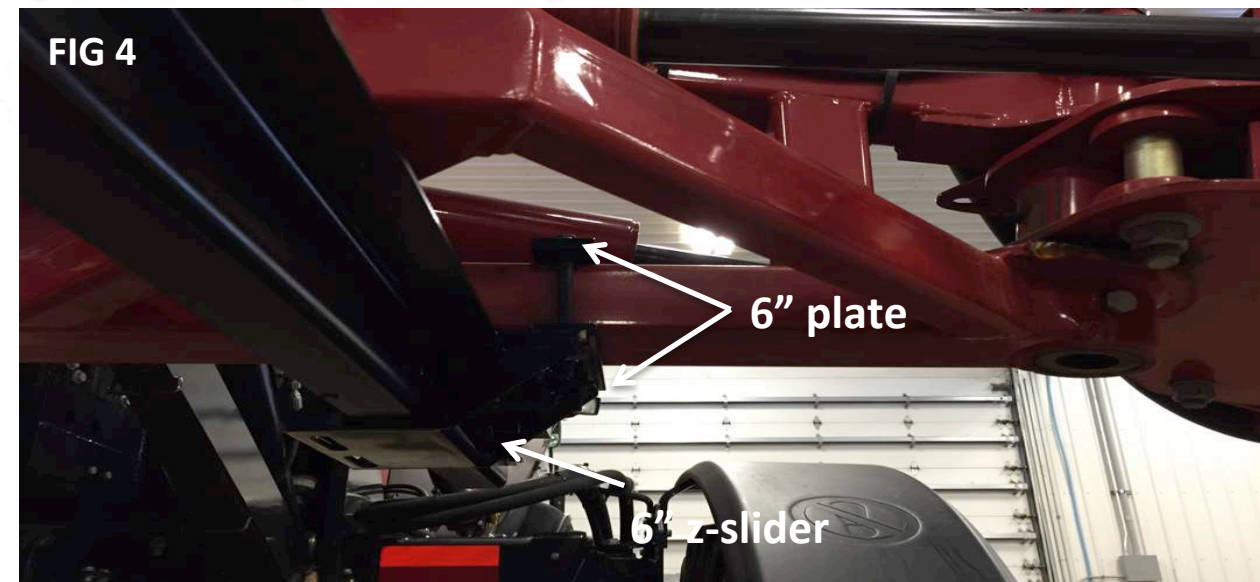
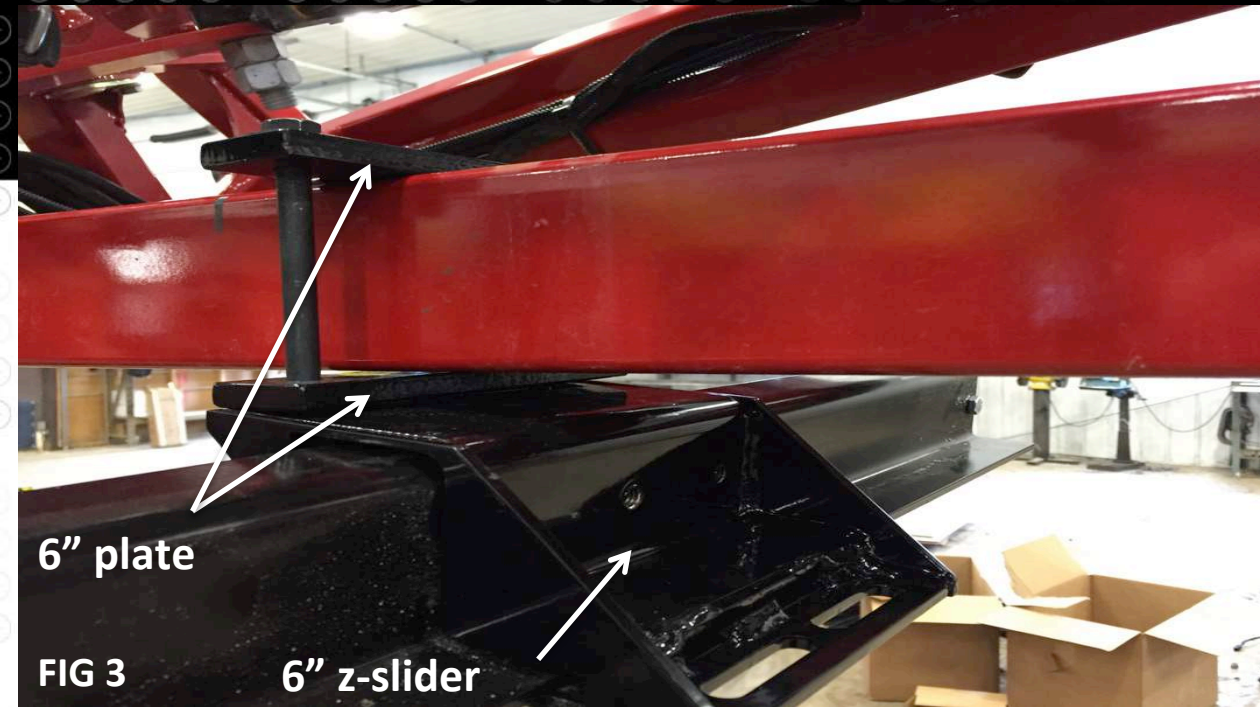
1. One (1) 6" z-slider bracket
2. Two (2) 6" plates
3. Two (2) 3/8" x 5" bolts
4. Four (4) 3/8" flat washers
5. Two (2) 3/8" lock washers
6. Two (2) 3/8" nuts

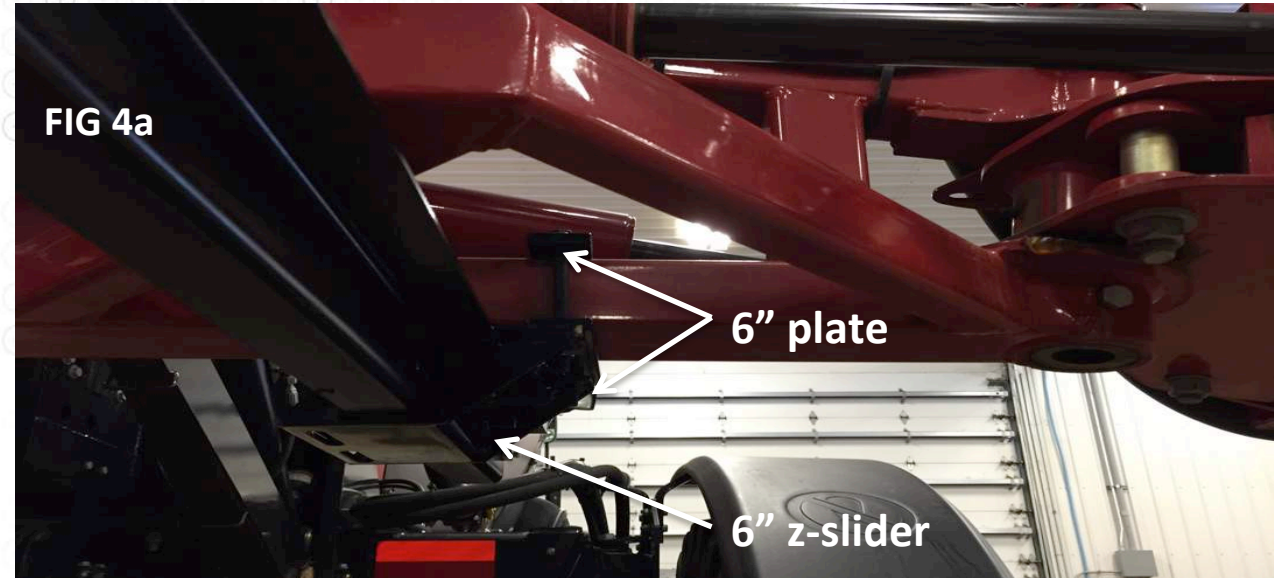
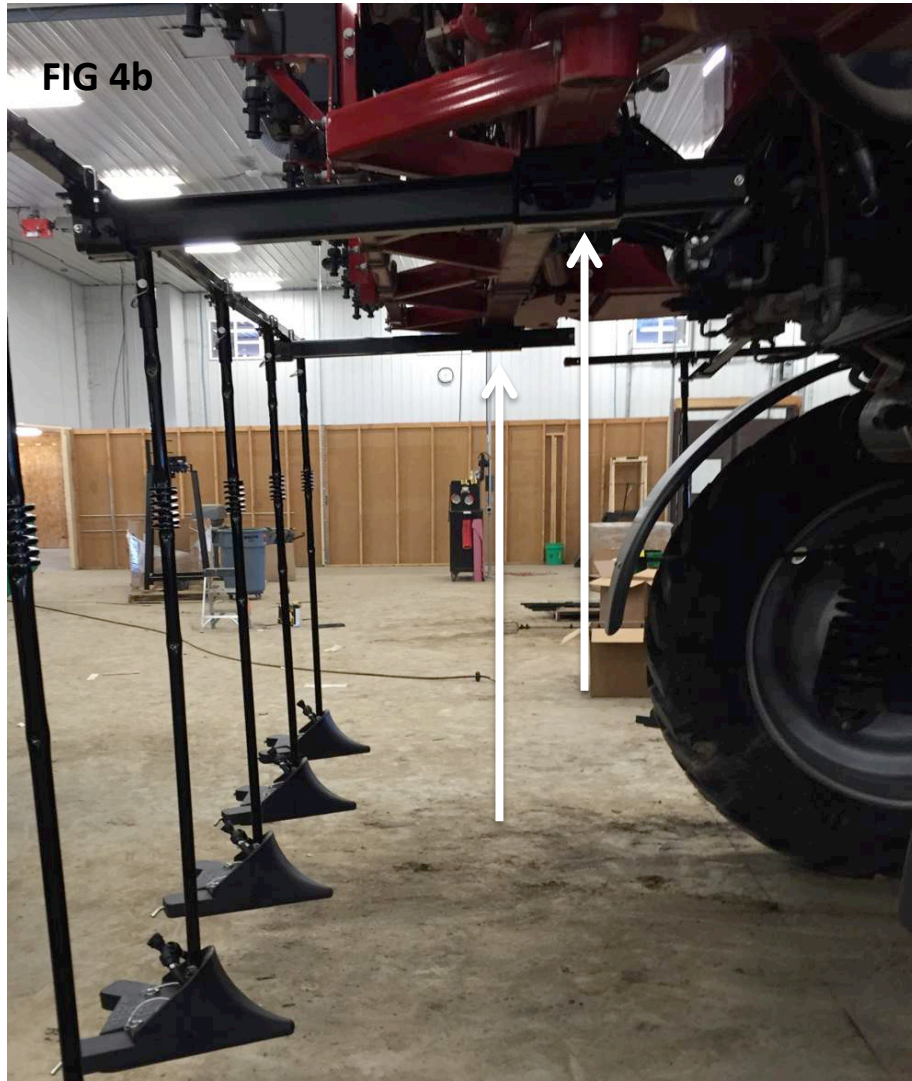
4. Space all five sets of mount brackets nominally 60" apart and tighten. Distances between brackets may vary, depending on your specific boom. Be sure to take into account where your drops will fall.

5. Repeat STEPS 2 - 4 on the other boom fold.

6. Install two (2) mounting brackets on center section and tighten, right side is shown in FIG 4:

1. Two (2) 6" z-slider brackets
2. Four (4) 6" plates
3. Four (4) 4" bolts
4. Eight (8) 3/8" flat washers
5. Four (4) 3/8" lock washers
6. Four (4) 3/8" nuts





6. Install two (2) mounting brackets on center section and tighten, right side is shown in FIG 4a, both in FIG 4b:

1. Two (2) 6" z-slider brackets
2. Four (4) 6" plates
3. Four (4) 4" bolts
4. Eight (8) 3/8" flat washers
5. Four (4) 3/8" lock washers
6. Four (4) 3/8" nuts

7. **Install z-bars in all 12 z-brackets, leave loose and *carefully fold sprayer booms into cradle to adjust fore/aft locations.***

1. Twelve (12) 38" z-bars

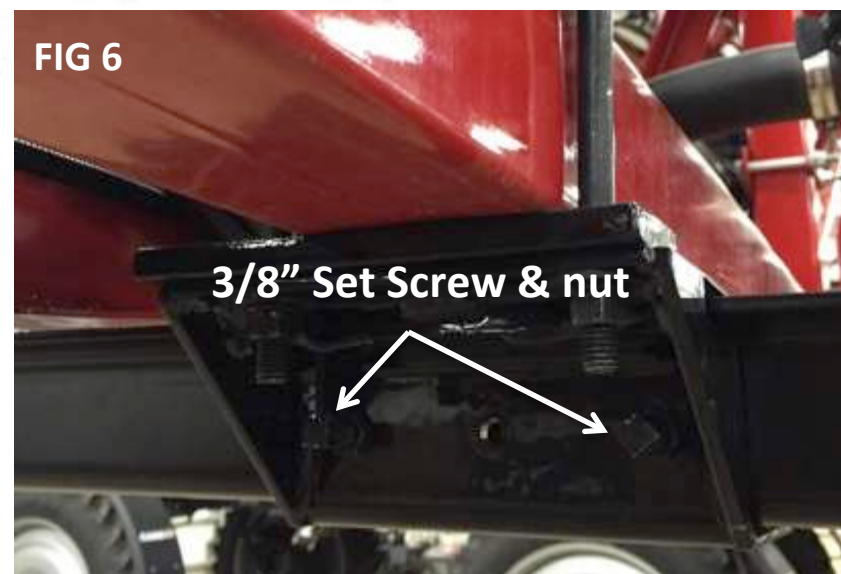
8. **Install 3" z-slider brackets on all z-bars, shown in FIG 5:**

1. Twelve (12) 3" z-slider brackets



9. **Install and tighten 3/8" set screws with jam nuts in all z-slider brackets, shown in FIG 6 (three per 6" z-slider, two per 3" z-slider):**

1. (60) 3/8" set screws
2. (60) 3/8" jam nuts



10. On both the left and right boom wings, assemble four (4) 5' boom sections with 8" connector bars using provided hardware. Another 5' boom section will need to be field cut in half to extend the length needed for all 24Rx30" or 36Rx20" drops. Assemble this shorter section to the inner part of both boom folds. In total, the 360 Y-DROP boom should span 22-1/2 feet, example shown in FIG 7. The center section will take (2.5) 5' boom sections. Cap the ends of boom sections with rubber cap.

1. 5 Foot Boom Section
2. 8" connector bar
3. 3/8" x 1-3/4" stainless steel flange bolt
4. 3/8" flat washer
5. 3/8" lock washer
6. 3/8" nut
7. 1-1/4" square rubber cap



To be installed on upper
sprayer boom

11. **Assemble (6) 2-Section Yokes** to be used as support straps from 360 Y-DROP boom to left & right upper sprayer boom, shown in FIG 9a & 9b.
Note: Length will need to be adjusted to fit distance between booms.

- 10. (2) 23" Yoke straps
- 11. (2) Yoke ends
- 12. (1) Welded bracket
- 13. (5) 3/8" x 1-1/4" carriage bolts
- 14. (1) 3/8" x 1-1/4" bolt
- 15. (6) 3/8" flat washers
- 16. (6) 3/8" lock washers
- 17. (6) 3/8" nuts
- 18. (1) 2.5" locking clip pin
- 19. (1) 3.5" locking clip pin

12. **Assemble (2) 3-Section yokes** to be used as support straps from 360 Y-DROP boom to left & right upper sprayer boom, shown in FIG 9a & 9b.
Note: Length will need to be adjusted to fit distance between booms.

- 10. (3) 23" Yoke straps
- 11. (2) Yoke ends
- 12. (1) Welded bracket
- 13. (6) 3/8" x 1-1/4" carriage bolts
- 14. (1) 3/8" x 1-1/4" bolt
- 15. (7) 3/8" flat washers
- 16. (7) 3/8" lock washers
- 17. (7) 3/8" nuts
- 18. (1) 2.5" locking clip pin
- 19. (1) 3.5" locking clip pin

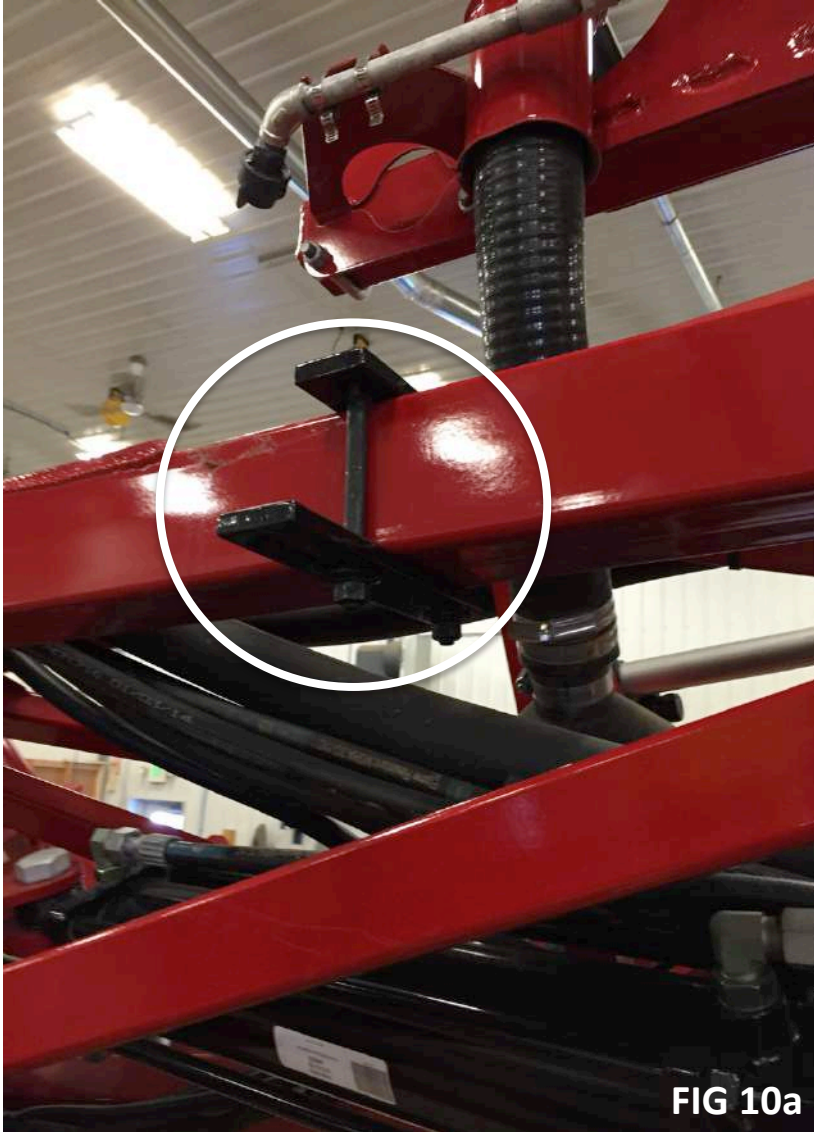


FIG 9a



FIG 9b

13. Install (3) 2-Section Yokes to both left & right hand sprayer boom and 360 Y-DROP boom, as shown in FIG 10a & 10b, spaced evenly along each side. Install upper and lower slotted plates as shown in FIG 10a, then connect the Yoke assembly with 2.5" locking clip pin. Adjust length of each Yoke as required to support the square 360 Y-DROP boom. Secure with 3.5" locking clip pin at bottom of yoke.





2-Section Yokes

FIG 11

14. Assemble (2) 3-Section yokes to center sprayer boom to 360 Y-DROP boom, shown in FIG 12. Note: Length will need to be adjusted to fit distance between booms.

- 10. (3) 23" Yoke straps
- 11. (2) Yoke ends
- 12. (1) Welded bracket
- 13. (6) 3/8" x 1-1/4" carriage bolts
- 14. (1) 3/8" x 1-1/4" bolt
- 15. (7) 3/8" flat washers
- 16. (7) 3/8" lock washers
- 17. (7) 3/8" nuts
- 18. (1) 2.5" locking clip pin
- 19. (1) 3.5" locking clip pin

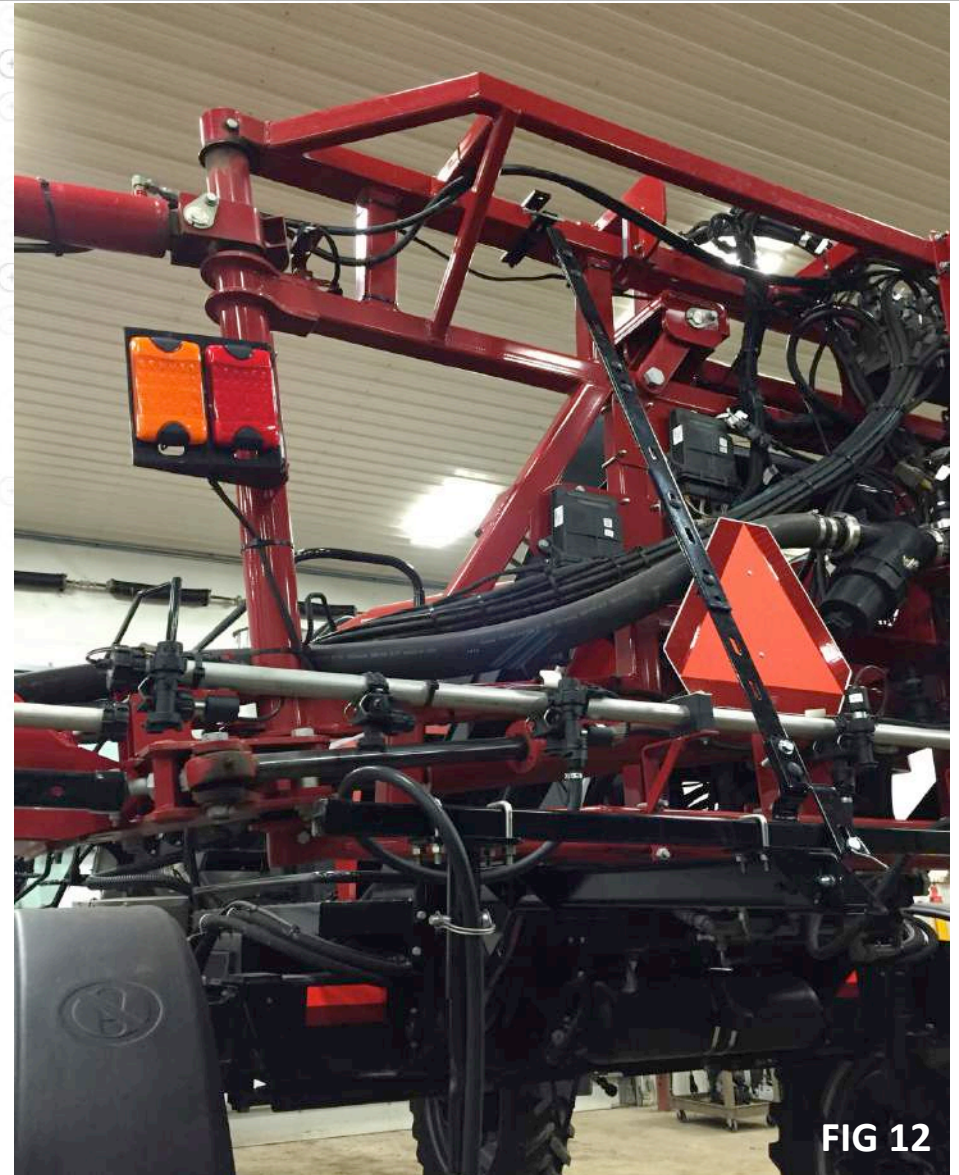


FIG 12

3-Section Yokes



FIG 13

15. **Assemble riser mount brackets to square boom with stainless steel hardware provided and leave loose, shown in FIG 8. Quantity and spacing will depend on your system configuration and application profile.**

1. Riser mount brackets
2. 5/16" x 1-3/8" U-Bolts
3. 5/16" flat washers
4. 5/16" lock washers
5. 5/16" nuts

16. **From center of machine, measure appropriate distance, based on row spacing and tighten u-bolts on riser mount brackets.**

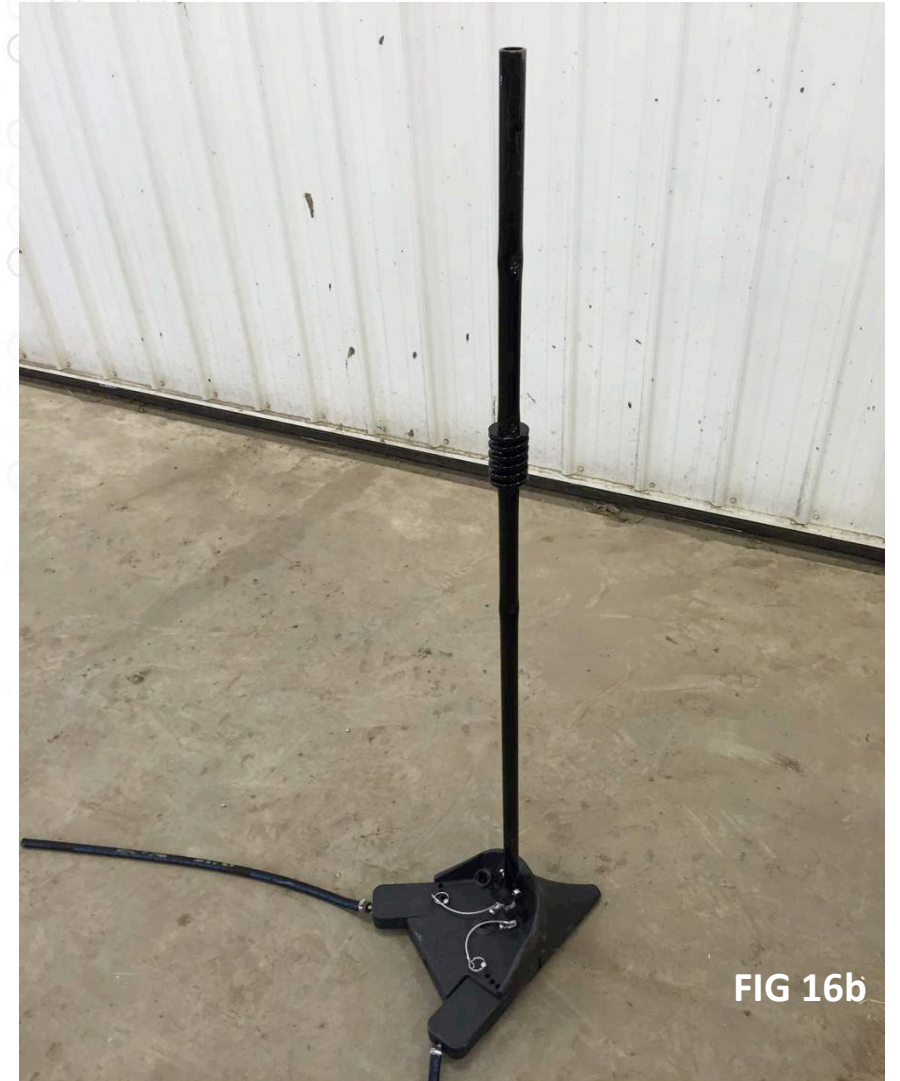


17. **Assemble drag hoses to 360 Y-DROP base unit, shown in FIG 15,** using hose clamps provided.



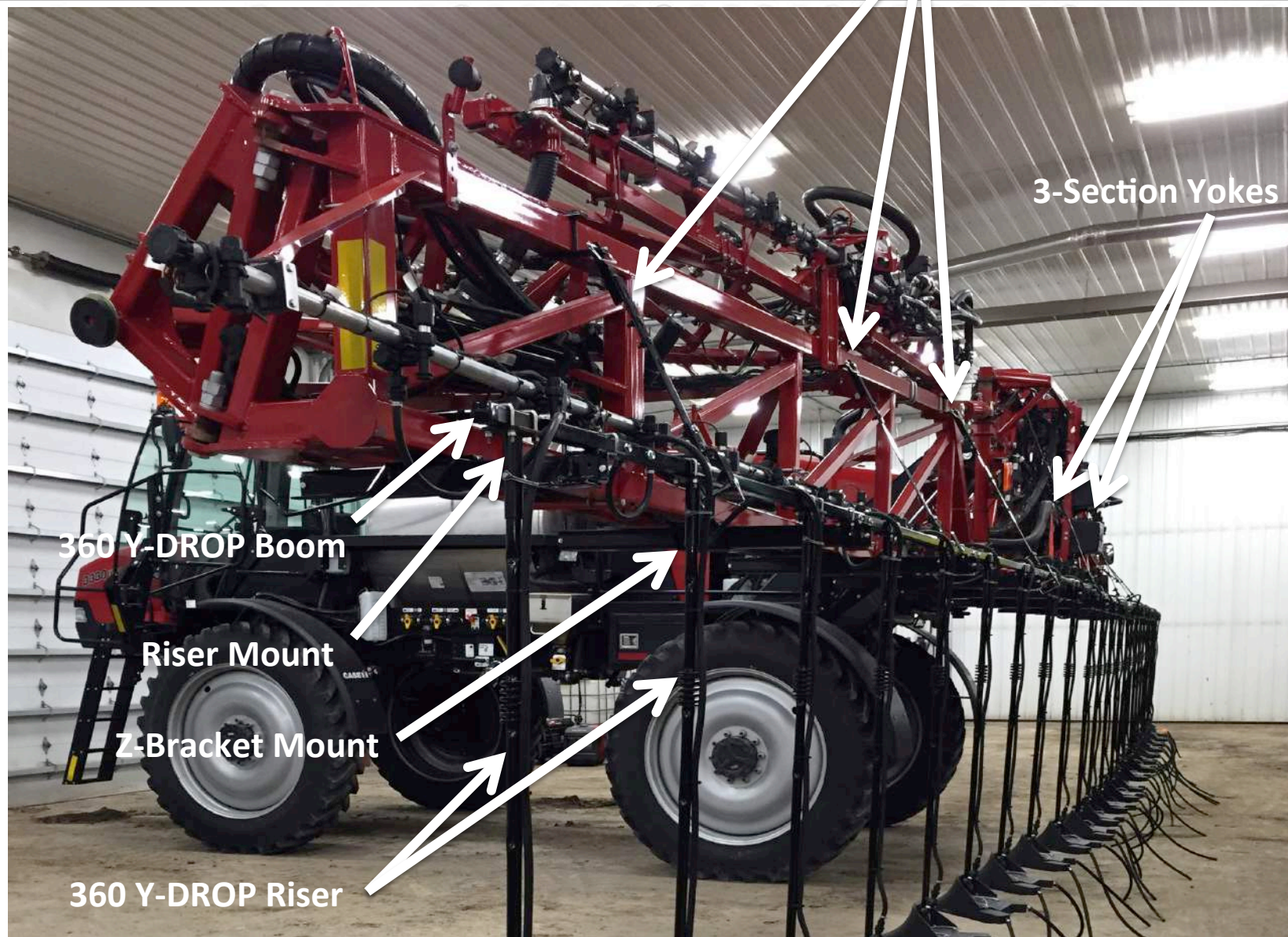
FIG 15

18. **Attach Riser Tube Assembly to 360 Y-DROP base unit using stainless steel wire lock pin, shown in FIG 16a & 16b. Repeat for every drop.**



19. **Attach riser tube assembly / 360 Y-DROP to riser mount bracket on the 360 Y-DROP boom with stainless steel wire lock pin, as shown in FIG 17a & 17b. Repeat for every drop.**
20. **Connect and route riser hoses from 360 Y-DROP base unit up riser and connect to sprayer nozzle body. Zip tie hoses at least every 18" along riser tube.**





2-Section Yokes

3-Section Yokes

360 Y-DROP Boom

Riser Mount

Z-Bracket Mount

360 Y-DROP Riser