

FE4R AIR SEEDER

For “Highboy” Cover Crop Applications

By:

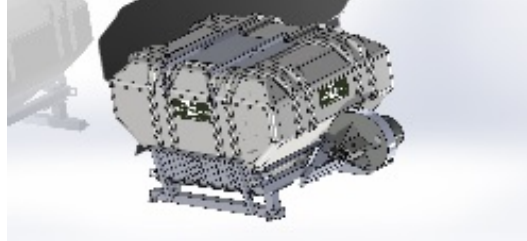

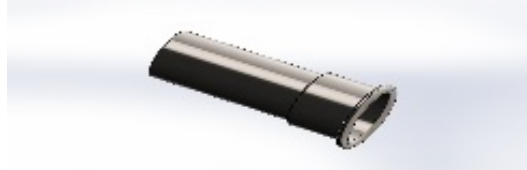
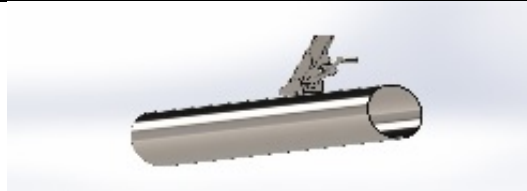
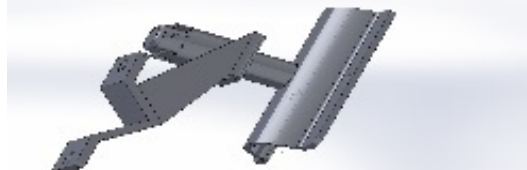
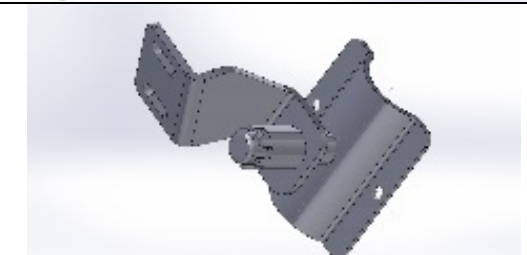
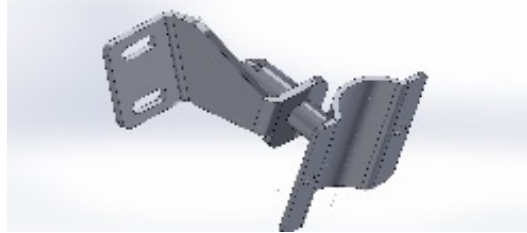
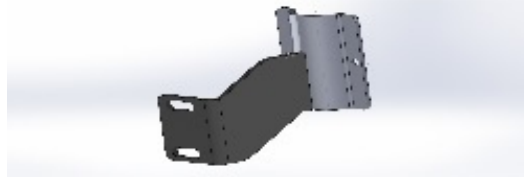
Fennig Equipment

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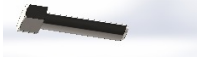

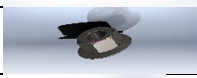





419-953-4500

Qty.	Part Number	Picture	Description
1	FE4R Tank		Main tank assembly to go on frame.
37	B-02-01		16" Drop Hose
6	B-16-01		Female Quick Disconnect
6	B-16-02		Male Quick Disconnect
6	B-H-1-3		Standard swivel drop 1.25"
2	B-H-1-4-R		Swivel drop for outside booms
2	B-H-1-4-L		Swivel drop for outside booms
1	B-H-1-5-R		Drop 31

1	B-H-1-5-L		Drop 7
6	B-H-1-1		Fixed Drop Holder
12	B-H-1-2		Standard swivel drop 1.5"
1	B-H-1-6-R		Drop 16
1	B-H-1-6-L		Drop 22
4	B-H-1-6-2		Backing plate for Tower and Drop
1	B-H-1-7-1		Left side of center Boom
1	B-H-1-7-2		Right side of center Boom
6	B-14-01		Tower

6	B-15-01-01		6 Outlet Head
6	B-15-02		Rubber cap for 6 Outlet Head
2	B-H-1-8-1		Tower 2 and 5 mounting bracket
1	B-H-1-8-2R		Tower 1 Mounting bracket
1	B-H-1-8-2L		Tower 6 Mounting Bracket
1	B-H-1-8-4R		Tower 3 Mount Bracket
1	B-H-1-8-4L		Tower 4 Mount Bracket
1	B-13-01		'Y' Splitter

37	B-10-02		Female Banjo Coupler for drop tubes
37	B-01-01		Drop tube holder
18	B-03-01		Boom clamp 1.5"
6	B-03-02		Boom clamp 1.25"
37	B-08-01		Drop tube deflector
37	B-20-01		Drop tube

86	HW-5/16-1.25		5/16" bolt 1-1/4" long
61	HW-5/16-1		5/16" bolt 1" long
4	HW-5/16-2		5/16" bolt 2" long
164	HW-5/16-FN		5/16" Flange nut
12	HW-3/8-2.5		3/8" bolt 2-1/2" long
12	HW-3/8-FN		3/8" Flange nut
6	HW-5/16-2.5-4.5-UB		5/16" 'U' Bolt 2-1/2 x 4-1/2
25	HW-2-9/16-3-1/2		Hose clamp ranging from 2-9/16 to 3-1/2
119	HW-13/16-1-3/4		Hose clamp ranging from 13/16 to 1-3/4

Drop Layout (Drop 1 is farthest left when sitting in the cab)

Drop Position	Part Number
1	B-H-1-3
2	B-H-1-3
3	B-H-1-4-L
4	B-H-1-3
5	B-H-1-4-R
6	B-H-1-2
7	B-H-1-5-L
8	B-H-1-1
9	B-H-1-2
10	B-H-1-2
11	B-H-1-1
12	B-H-1-1
13	B-H-1-2
14	B-H-1-2
15	B-H-1-2
16	B-H-1-6-L
17	
18	B-H-1-7-1
19	
20	
21	B-H-1-7-2
22	B-H-1-6-R
23	B-H-1-2
24	B-H-1-2
25	B-H-1-2
26	B-H-1-1
27	B-H-1-1
28	B-H-1-2
29	B-H-1-2
30	B-H-1-1
31	B-H-1-5-R
32	B-H-1-2
33	B-H-1-4-L
34	B-H-1-3
35	B-H-1-4-R
36	B-H-1-3
37	B-H-1-3

Introduction

These are step by step instructions however the FE4R system is capable of fitting many different sprayer models. Because of this the pictures used as examples may not be exactly how the system should be installed on all models, slight modifications may be necessary.

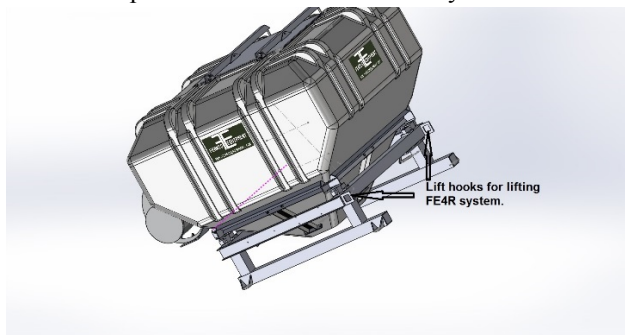
FE4R Installation Instructions

I. Removing Wet Tank

1. Drain wet tank and foaming system.
2. Unfold booms on machine.
3. Disconnect wet lines and strap to machine for storage.
4. Make sure all wiring harnesses, hydro lines and wet hose are stored out of the working area.
5. Remove side rail from machine on right side.
6. Unbolt tank (4 Bolts).
7. Remove tank by lifting off of machine.

II. Placing FE4R Tank

8. Make sure all wiring and hose is removed from the working area.
9. Attach straps / chains to lift hooks on system and attach to lifting equipment



10. Lift FE4R system up over side of the machine and put into place with fan to the rear of the machine. (May be a tight fit for some machines.)
11. Attach FE4R system to frame using the 4 bolts removed from wet tank and tighten.
12. Plumb the 6 2-1/2" hose to the meter and secure with HW-2-9/16-3-1/2. Once attached to the meter hoses are run along the right side of the cab towards the boom and cut off at the boom. Be sure to have the arrow on the hose pointing away from the meter. (the flow of the product)
13. Repeat until all meter outlets have a hose.



14. When plumbing hoses at the meter, the hoses going the farthest distance must be in the center. Thus when standing under the cab looking back at the meter the far left outlet goes to tower 4, the next one right goes to tower 5, then tower 6. The other side is the similar. Starting at the far right is tower 3 the next one left goes to tower 2 and then tower 1.



15. Insert B-16-02 into the end of the 6 hoses and clamp with HW-2-9/16-3-1/2.

III. Boom Parts

16. Attach front tool bar depending on the make and model of the machine.
17. Find and mark center of machine.
18. From that mark measure and mark 15" to the left and the right of the center mark.
19. From these marks measure and mark on boom 30" in each direction.

20. Number each mark from 1 to 37 with 1 being the far left when sitting in the seat and 37 being the far right.
21. Attach B-H-1-3 to marks 1, 2, 4, 32, 34 and 36 with B-03-02. (Use HW-5/16-1 and HW-5/16-FN unless otherwise noted).
22. Attach B-H-1-4-R to marks 5 and 35. (Use existing bolts on the boom)
23. Attach B-H-1-4-L to marks 3 and 33. (Use existing bolts on the boom)
24. Attach B-H-1-5-R to mark 31. (Use existing bolts on the boom)
25. Attach B-H-1-5-L to mark 7. (Use existing bolts on the boom)
26. Attach B-H-1-1 to marks 8, 11, 12, 26, 27 and 30 with B-03-01.
27. Attach B-H-1-2 to marks 6, 9, 10, 13, 14, 15, 23, 24, 25, 28, 29 and 32 with B-03-01.
28. Attach B-H-1-6-R to mark 22. (Use HW-3/8-2.5 and HW-3/8-FN)
29. Attach B-H-1-6-L to mark 16. (Use HW-3/8-2.5 and HW-3/8-FN)
30. Attach B-H-1-7-1 to marks 17, 18 and 19.
31. Attach B-H-1-7-2 to marks 20 and 21.

IV. Install Towers and Hose

32. Install B-15-01 and B-15-02 onto B-14-01.



33. Install B-14-01 between drops 4-5, 10-11, 15-16, 21-22, 27-28 and 33-34.
34. Towers 1 and 6 use B-H-1-8-2 as brackets and HW-5/16-1.
35. Towers 2-5 use B-H-1-8-1 as brackets and use HW-5/16-2.
36. Run hoses from B-14-01 to the hoses that were cut off in step 12. Hose clamp at hose to B-14-01 with HW-2-9/16-3-1/2. (Allow room for boom to lift and fold by using sweeps around the hinge points, example shown below)



37. Insert B-16-01 in hoses ran in the previous step and clamp with HW-2-9/16-3-1/2.

38. Connect B-16-02 and B-16-01.



V. 1/2 Rate

39. Mount B-13-01 to the upper right of the center transit using HW-5/16-1.
40. Attach 1-1/4" hose to one outlet on Tower #4 using hose clamp HW-1-5/16-2-1/4. (1 being the far left when sitting in the seat.)
41. Attach other end of hose to the single end of B-13-01 with HW-1-5/16-2-1/4.
42. Run a hose from each side of the 'Y' along the boom to each end (one going each way). Then zip tie. Attach to 'Y' with HW-1-5/16-2-1/4.



VI. Tower Hose

43. Shortest hose for each tower must be no shorter than at least 50% the length of the longest hose per tower. **DO NOT COIL HOSES.** Allow for boom to lift and fold when running hoses.
44. Run hoses from tower 1 to drops 2-7.



(Towers 2-6 are similar to tower 1)

45. Run hoses from tower 2 to drops 8-13.
46. Run hoses from tower 3 to drops 14-19.
47. Run hoses from tower 4 to drops 20-24.
48. Run hoses from tower 5 to drops 25-30.
49. Run hoses from tower 6 to drops 31-36.
50. Once ran the hoses from the towers get inserted at least 2" into B-02-01 and clamped with B-01-01 and HW-5/16-1.25.



51. Zip tie hoses to boom.
52. Lift and fold boom to make sure there are no pinch points in any hoses.

VII. Drops

53. Install B-10-02 into B-02-01 and hose clamp with HW-13/16-1-3/4.
54. Attach B-08-01 to the straight end of B-09-01 with HW-1-5/16-2-1/4.
55. Unlock B-10-02 (if necessary), and insert the other end of B-09-01 into B-10-02. Once inserted lock B-10-02.
56. Repeat steps 48-51 until all 37 drops are assembled.

VIII. Attaching Wire Harness

57. See GPS Control System



Completed installation of FE4R Air Seeder.