

Steps

CONNECT - 1: Attach Wear Insert to Seed Firmer (fig. 1). **2:** Connect the IR Tool to the Seed Firmer and the Wear Insert (fig. 2). **3:** Tighten until the Wear Insert is tightly secured (fig. 3).

REMOVAL - 1: Attach IR Tool to the Wear Insert and **UNDER** the Seed Firmer Liquid Tube (fig. 4). **2:** The IR Tool should fasten securely **UNDER** the Liquid Tube (fig. 5) **3:** Tighten IR Tool until Wear Insert becomes loose (fig. 6).

WEAR INSERT - STOPPER



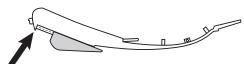


Steps

Wear Insert Stopper - 1: Use a 7/64 drill bit to drill in hole below wear insert on the seed firmer lip, drill no more than about 1/8 inch down (fig. 7), and stop drilling immediately upon sensing resistance of metal. 2: Tighten screw (fig. 8).

WHEN DO I REPLACE THE WEAR INSERT

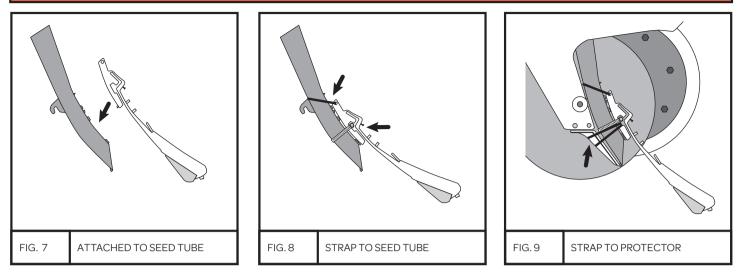
Replace the Wear Insert when the length of the Wear Insert is 1/8 of an inch away from the Firmer Stop.



Firmer Stop.

For questions, ordering, replacing, or any other inquiries please call **1-800-860-1812**

FR100 - INSTALLATION INSTRUCTIONS



Steps

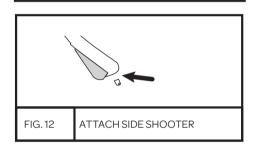
CONNECT - 1: Attach Seed Firmer to seed tube (fig. 7) 2: Attach tie straps steel clamp around Seed Firmer and seed tube (fig. 8) 3: Attach tie straps to seed tube protector (fig. 9)

FR200 - INSTALLATION INSTRUCTIONS FIG. 10 ATTACHED TO FIRMER BRACKET FIG. 11 CONNECT TO FIRMER BRACKET

Steps (SEE NOTICE B>)

CONNECT - 1: Attach Seed Firmer to Universal Firmer Bracket* (fig. 10) 2: Secure Seed Firmer connection. (fig. 11) 2A: When tightening the FR200 screw back off two turns after screw has hit firmer (fig. 11)

SIDE SHOOTER - INSTAL-LATION INSTRUCTIONS



Steps

CONNECT - 1: Push Side Shooter into the Seed Firmer until fastened (fig. 12)

NOTICE B



Thread adjustment has been preset by factory. Do not tighten, loosen, or adjust screw.



From our family to yours, we wish you a safe and prosperous year.

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WARRANTY

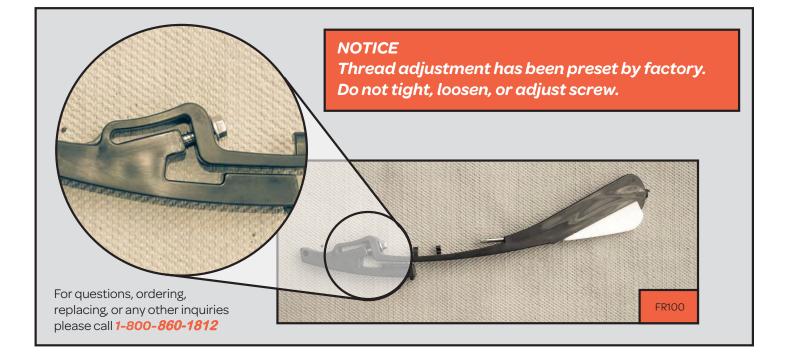
Flo-rite Seed Firmers are warranted to be free of defects in material and workmanship for one year from date of installation. Our obligation under this warranty shall be limited to repairing or replacing, free of charge to the original purchaser, any part that in our judgment shall show evidence of such defect, provided further that such part shall be returned within thirty (30) days from the date of failure - routed through the dealer from whom the purchase was made. Shipping charges prepaid. Patent pending

Flo-rite Seed Firmers shall have no liability of any kind, except for the warranty above, on account of any of its products and shall not be liable for special or consequential damages. Flo-rite Seed Firmers shall not be liable for indirect, incidental or consequential damages or injuries including but not limited to loss of crops, loss of profits, rental of substitute equipment, planting delays, any expense or loss incurred for labor, other commercial loss or for any otherreason. Patent pending.

WARNING: Never backup planter with seed firmers down. This may break and/or damage firmer or wear inserts. *Keeton Universal Firmer Bracket, Keeton is a registered trademark of Precision Planting, Inc.



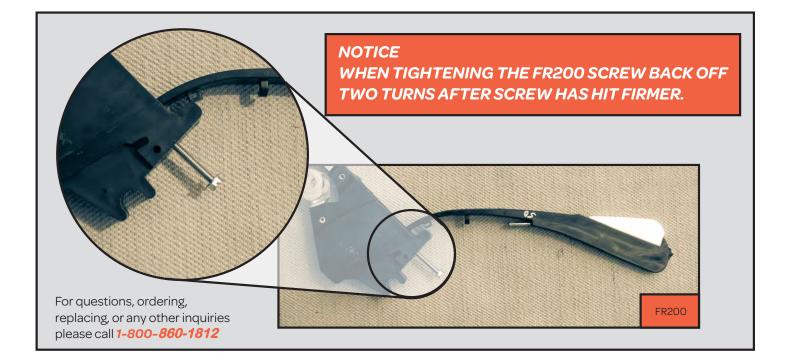
DO NOT AT ANY TIME ATTACH WEAR INSERT OR REMOVE WEAR INSERT FROM SEED FIRMER WHILE ATTACHED TO PLANTER. REMOVE SEED FIRMER WHILE DOING MAINTENANCE. BEWARE OF ALL PINCH POINTS. DO NOT BACKUP PLANTER WHILE FIRMER IS DOWN. **ALWAYS** BE MOVING FORWARD WHEN LOWERING PLANTER.





NOTICE

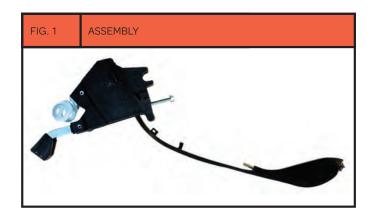
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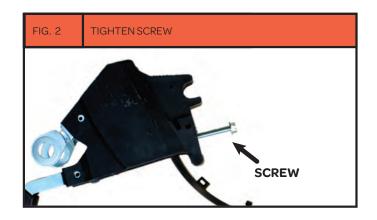




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FR210 Long Low Pro - ASSEMBLY INSTRUCTIONS







Steps

ASSEMBLE - 1: Attach Firmer to the Universal Mounting Bracket (fig. 1). **2:** When tightening the FR210 screw back off two turns after screw has hit firmer. (fig. 2). **3:** Push Side Shooter into the Seed Firmer until fastened (fig. 3).

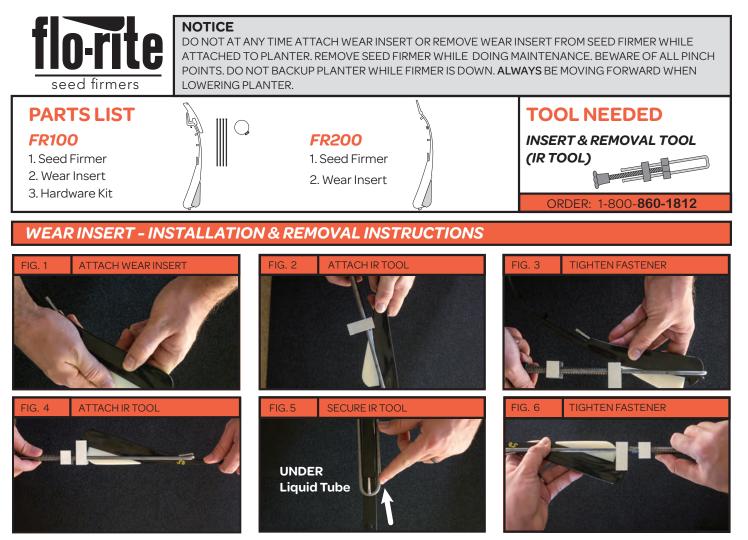


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WARRANTY

Flo-rite[®] Seed Firmers are warranted to be free of defects in material and workmanship for one year from date of installation, any other warranty, such as merchantability or fitness for a particular purpose, is expressly disclaimed. Our obligation under this warranty shall be limited to repairing or replacing, free of charge to the original purchaser, any part that in our judgment shall show evidence of such defect, provided further that such part shall be returned within thirty (30) days from the date of failure – routed through the dealer from whom the purchase was made. Shipping charges prepaid. Patent pending Flo-rite[®] Seed Firmers shall have no liability of any kind, except for the warranty above, on account of any of its products and shall not be liable for special or consequential damages. Flo-rite[®] Seed Firmers shall not be liable for indirect, incidental or consequential damages or injuries including but not limited to loss of crops, loss of profits, rental of substitute equipment, planting delays, any expense or loss incurred for labor, other commercial loss or for any otherreason. Patent pending.

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Steps

CONNECT - 1: Attach Wear Insert to Seed Firmer (fig. 1). **2:** Connect the IR Tool to the Seed Firmer and the Wear Insert (fig. 2). **3:** Tighten until the Wear Insert is tightly secured (fig. 3).

REMOVAL - 1: Attach IR Tool to the Wear Insert and **UNDER** the Seed Firmer Liquid Tube (fig. 4). **2:** The IR Tool should fasten securely **UNDER** the Liquid Tube (fig. 5) **3:** Tighten IR Tool until Wear Insert becomes loose (fig. 6).

WEAR INSERT - STOPPER





Steps

Wear Insert Stopper - 1: Use a 7/64 drill bit to drill in hole below wear insert on the seed firmer lip, drill no more than about 1/8 inch down (fig. 7), and stop drilling immediately upon sensing resistance of metal. 2: Tighten screw (fig. 8).

WHEN DO I REPLACE THE WEAR INSERT

Replace the Wear Insert when the length of the Wear Insert is 1/8 of an inch away from the Firmer Stop.

Firmer Stop.

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IH PLANTER - ASSEMBLY INSTRUCTIONS



Steps

ASSEMBLE - 1: Equipment needed (fig. 1). **2:** Mount IH Planter to the seed boot by bolting seed firmer to the bottom of the seed boot (fig. 2). **3:** Tighten until the Wear Insert is tightly secured (fig. 3).



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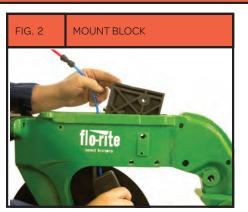
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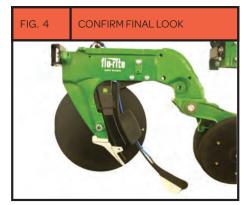
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JOHN DEERE MAXEMERGE 5 - INSTALLATION INSTRUCTIONS









Steps

ASSEMBLE - 1: Start with a 5/16^{ths} bolt in the 3rd hole from the top of the Mounting Bracket. Insert into the top hole of the Mounting Block. The 2nd bolt will be in the fifth hole of the Mounting Bracket (fig. 1). Adjust location of bolts on the Mounting Bracket to fit your pressure and soil conditions.

CONNECT - 1: Attach Mounting Block to frame then attach Mounting Arm. Slide Mounting Block into top of scrapper hole (fig. 2). 2: Use 3/8^{ths} bolts from package to tighten into posistion. (fig. 3). 5: Attach Firmer and Confirm look (fig. 4).

***TUBES ARE NOT INCLUDED**



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WARRANTY

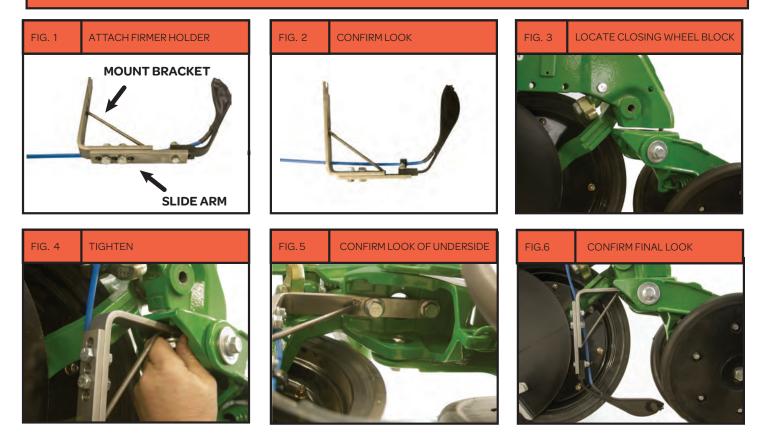
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WARNING: Never backup planter with seed firmers down. This may break and/or damage firmer or wear inserts. *MAXEMERGE is a trademark of DEERE & COMPANY CORPORATION.



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JOHN DEERE EXACTEMERGE - INSTALLATION INSTRUCTIONS



Steps

ASSEMBLE - 1: Attach Firmer to the Slide Arm use the 1/4th inch bolt. Then take the Firmer and Slide Arm and put one 3/8^{ths} bolt in the second hole of the Mounting Bracket and tighten and then put one 3/8^{ths} bolt in the fourth hole of the Slide Arm (fig. 1).
2: Confirm look (fig. 2). Adjust location of bolts on the Slide Arm to fit your pressure and soil conditions.
CONNECT - 3: Locate the closing wheel block and remove front bolt, loosen back bolt (fig. 3). 4: Attach Maxi Merge to wheel

closing block with bolts and tighten (fig. 4). 5: Confirm look of underside (fig. 5). 6: Confirm overall look (fig. 6).

***TUBE IS NOT INCLUDED**



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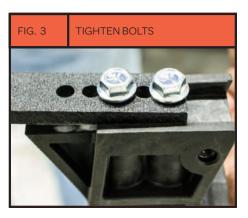


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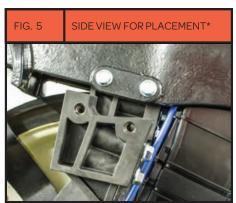
4900 KINZE Planter UPDATE 2016 - Instructions



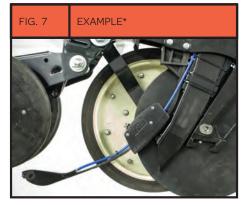












Steps

REMOVE – 1: Remove depth gage wheels, remove scrapper, remove scrapper guards, and disc blades (fig. 1).

ASSEMBLE - 1: Slide Mounting Block into Bracket Arm (fig. 2). **2:** Start with the bolts in the first and third hole from the top of the Bracket Arm as a starting point. Tighten Bolts (fig. 3). Adjust location of bolts on the Mounting Arm to fit your pressure and soil conditions.

CONNECT - 3: Confirm all pieces are securely tightened. Center Mounting Block into planter and tighten bolts **equally** on both sides. Tighten bolts once Mounting block is centered. (fig. 6). **3: Replace factory bolts with Flo-rite bolts to attach firmer & scrapper guards**

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WARNING: Never backup planter with seed firmers down. This may break and/or damage firmer or wear inserts. *Kinze is a registered trademark of Kinze Manufacturing, Inc.



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3600 KINZE Planter - Instructions 420 W Firmer

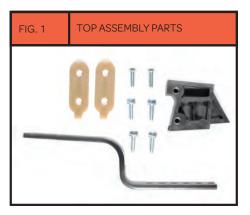


Fig. 1 Above are the parts included in the 3600 Kinzie top assembly.

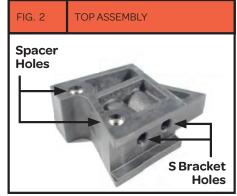


Fig 2 Above highlights the holes on the mounting block before spacers & brackets are connect.

Will work on 2000 Series Planters

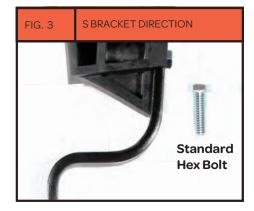


Fig 3 The S Bracket connect direction should be as shown. Connect using 2 Standard Hex Bolts

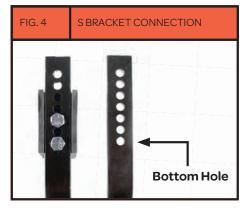


Fig. 4 Use the bottom hole location when attaching the assembly to the Firmer S Bracket.



Fig 5 Above are the Firmer parts included in the 420 W assembly.

FIG. 6 FIRMER CONNECTION

Fig 6 Firmer will slide into the Firmer block as shown.



Fig. 7 Use the bolts and nuts provide to attach the Firmer Block to the S Bracket. Start with bottom hole of Firmer Block.

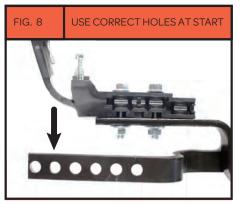


Fig 8 On the S Bracket start with the 2nd hole from the bottom to attach firmer. Adjust to your conditions.



Fig 9 Keep Spacer Tabs pointed on the inside. Use the Hex Washer Bolts on the Spacer Tabs.

FIG. 10 MOCK UP OF COMPLETE SETUP

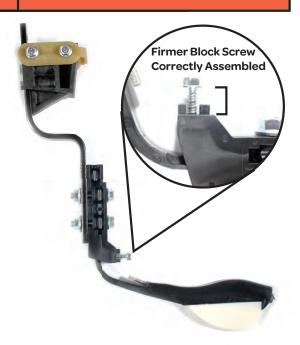


Fig. 10 Above is the complete setup.

Screw Firmer Block Screw in until it hits Firmer. Then, back out the screw 2 full turns. The **Firmer Block Screw is for HOLDING the FIRMER and should <u>NOT</u> be tight.** *Notice the Spacers are for reference only. You will screw Spacer Tabs in Figure 11 & 12.*



Fig. 11 Remove Depth Gauge Wheel on both sides before installation. Using the spacer tab slide the entire setup into your planter.

Fig. 11(continued) The correct direction of the Mounting block is shown above. Use the Flange Head Bolts provided. Notice attaching the firmer on one side without the disk scrapper will allow for a quicker and correct install. **Do Not Tighten** until both Spacer and disk scrappers are assembled.



Fig. 12 Slide in the 2nd Spacer Tab on the opposite side. Place disk scrapper back into position and using the provided Bolts tighten to planter. **Fig. 11** should allow for and easy install, but if you need more space: Loosen the bolts in **Fig. 11**

FIG. 13 FINAL COMPLETE INSTALL

Fig. 13 While tightening final bolts pull back on Firmer to desired upright angle. Adjust the firmer and line up with the seed trench.

Final Tips

Adjust location of bolts on the Mounting Bracket to fit your pressure and soil conditions.



ilo-rite seed firmers

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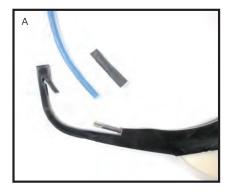
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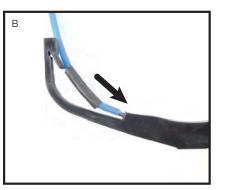


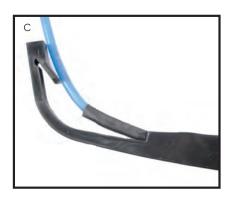
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FIG. 1 LIQUID TUBE CONNECTION TIPS

Fig. 1 If you are having issues/leakage with your liquid tube connection to the firmer try the following steps. A. Cut end of liquid tube to make a flush end. B. Place electrical 5/16 heat shrink tape on the liquid tube, then firmly attach tube onto Firmer. C. Finally, pull heat shrink tape down. The tape should be flush with the Firmer. Heat as recommended by tape manufacture.







The liquid tube size should be 3/16 ID

For questions, ordering, replacing, or any other inquiries: www.flo-rite.com or call 800-860-1812

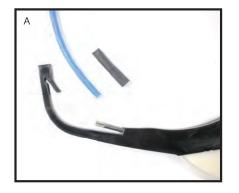


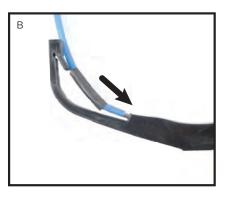
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