

INSTALLATION

It is recommended to assemble the opener components together before installing it on the shank. This will make assembly quicker and easier.

- Refer to the diagram below to see the install locations of the tip, seed tube and other hardware.
- Install the tip as per the orientation on the diagram.
- Use an impact wrench if possible to tighten the shank bolts during the initial install and torque them to 100 ft-lb. After 4 hours of use it is recommended that you ensure all bolts are still tight and re-torque to 100 ft-lb. This should prepare you for the season.
- Tighten the seed tube bolts during the initial install and torque them to 100 ft-lb.
- Dutch lock nuts have been provided which have a stainless steel insert as opposed to the synthetic insert found in common lock nuts. This will help keep your hardware in place through any condition more effective than a standard lock nut.
- Ensure that Hose Clamp nuts are facing forward so that the hose clamps bite into the plastic hose. This will prevent the hose clamps from sliding off.

USING SHIMS

Why is the operating angle important?

If your equipment is not running at the designed operating angle of 50°, complications may arise such as plugging, excessive breakage, premature wear, or poor seed placement.

How do I know if my shank is 50°?

Ensure that the drill is level and place a piece of flat bar between the two holes at the bottom of the shank. Place a simple angle finder across the piece of flat bar. This angle is the operating angle of your shank.

What do I do if my shank is not 50°?

Shims are available and can be used to alter the operating angle of your equipment. These shims are available in 3°, 4° and 7°. If you are running too steep, place the shim in the bottom bolt hole to raise the tip of the opener. If you are running too flat, place the shim in the top bolt hole to lower the tip of the opener.



6827 (3°)



6826 (4°)

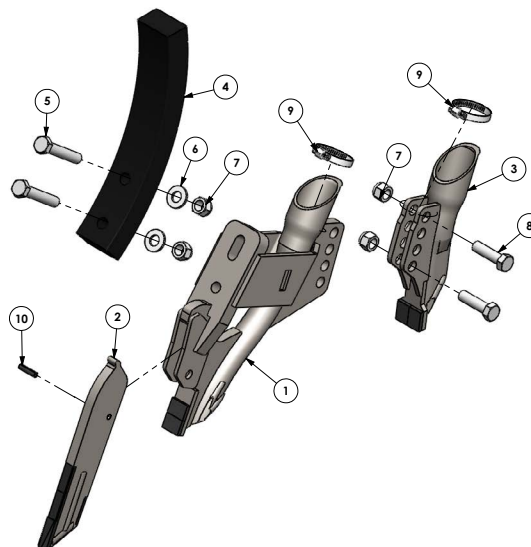


FAKN369 (7°)

ASSEMBLED VIEW



EXPLODED VIEW



PART LIST

ITEM	QTY	PART #	PRODUCT
1	1		Outlaw C-Shank Body
2	1		Outlaw Tip / Point
3	1		Outlaw Seed Tube
4	1		50° C-Shank / Tyne
5	2	HH12234PLC8	Hex Bolt, 1/2 X 2 3/4 GR8
6	2	111015	Sae Flat Washer, 1/2
7	4	111014	Dutch Lock Nut, 1/2
8	2	HH12134PLC8	Hex Bolt, 1/2 x 1 3/4 GR8
9	2	HC114	#20 Hose Clamp, 1/2 - 1 1/2
10	1	RP14114	Roll Pin

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