

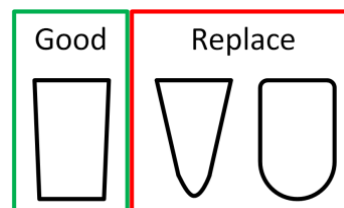
Firmer Replacement Guide

Keep the Six Bushel Boost

Don't overlook your Keeton Seed Firmers when you do your annual planter inspection and maintenance. To get the full "six bushel" boost from your Firmers, they must retain the correct shape and right amount of tension. Conduct these simple tests to determine when it's time to replace your Firmers.

#1 Visual Test

Because Firmers conform to the shape of the seed trench, some Firmers develop a sharp or pointed bottom after a period of time. That changes the way the seed is firmed. Carefully examine the bottom of the Firmer, if you see a change in the shape of the bottom, it's time to replace them. Also, look at the side of the Firmer. The Firmer should have a long curve along the bottom side. If the Firmer looks flat – or has lost height – then the firming angle has changed and it is time to replace it.



#2 Tension Test

Adequate Firmer tension is critical to properly firming seed to the bottom of the seed trench. The tension screw can be adjusted to increase or decrease the amount of down pressure. Too little tension can result in seeds not being properly firmed to the bottom of the trench. And too much tension, especially in sandy soils can result in accelerated wear. For new Firmers, always follow the installation instructions. To test the tension of your Keeton Seed Firmers, place the planter units on a level surface.

(1) Attach a small hanging scale to the firmer near the end.

(2) Lift until the Firmer just comes off of the ground.

(3) Tighten the tension screw until it takes 20 ounces (1 1/4 lbs) to raise the firmer.

To test the tension of your Keeton Seed Firmers, place the planter units on a level surface. (1) Attach a small hanging scale to the firmer near the end. (2) Lift until the Firmer just comes off of the ground.

(3) Tighten the tension screw until it takes 20 ounces (1 1/4 lbs) to raise the firmer.

A quick check is to lift the Firmer tail about two inches and release. (2) You should hear a solid whack as the Firmer snaps back to the ground. (3) If the whack seems lackluster, tighten the tension screw and try again.

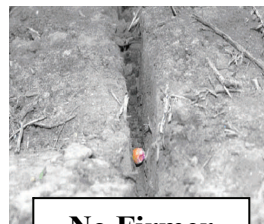
If the adjustment isn't sufficient, it is time to replace the Firmers. As a rule of thumb, adjust the tension screw at least one full revolution after each year of use.



Keep the Six Bushel Advantage that comes from even depth control and uniform germination – keep your Keeton Seed Firmers in shape.



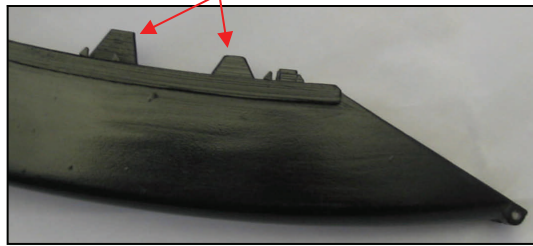
Firmer



No Firmer

Seed Tube Removal Guide

If needed, these ribs can be removed to aid in seed tube removal/installation.



Seed Tube Removal Guide		
	Universal	Kinze
John Deere 7000	-Brkt allows removal of seed tube	Bracket Not Compatible
John Deere 7200,1700	-Seed tube pulls straight out	Bracket Not Compatible
John Deere XP	-Seed tube pulls straight out	Bracket Not Compatible
Kinze 2000	-Brkt allows removal of seed tube	-Update to Universal Brkt or grind sides of shank cover back
Kinze 3000	-Brkt allows removal of seed tube	-Update to Universal Brkt or grind sides of shank cover back
Great Plains YieldPro	Bracket Not Compatible	Bracket Not Compatible
White	-Seed tube pulls straight out	Bracket Not Compatible

With Deere and Kinze firmer brackets, it may be necessary to widen the shank cover to remove the seed tube.

