



Design III Stir-Ator - Gooseneck and Swivel Replacement Kit Installation

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This complete conversion kit, part # 103A0125, is to be used to replace the center of the yoke weldment used on Design III Stir-Ators. It cannot be made to work on the older Stir-Ators, the Model 171 and Model 179.

1. **Conversion Assembly:** This conversion will require the correct gripper pulley be used. The single and double auger machines require the 12" gripper, part # 103A0049. The triple auger machines require the 14" gripper pulley, part # 105A0101. To install pulley, remove the upper junction box covers and remove the 5/16" bolt. Slide the center drive arm down out of the swivel and remove the upper snap ring and one washer. Slide the gripper pulley onto the shaft with the hub up, then replace the washer and snap ring. Carefully slide the shaft up through the swivel, so the wires are not pinched or nicked inside the swivel. Secure with the 5/16" bolt and nut removed earlier.
2. **Assembly of Conversion to Unit:** Disconnect and lock out power to the Stir-Ator and make sure it cannot be accidentally turned ON while work is being performed.
3. Support the Stir-Ator frame with blocking, chains or other safe support means. This is best done in a full grain bin, otherwise the Stir-Ator may have to be lowered to the bin floor and worked on sitting on sawhorses.
4. Disconnect all wires from the old gooseneck and center pivot junction box.
5. Remove the cable from the center gripper pulley.
6. Cut the extension pipe off 12" from the center of the swivel, being sure NOT to nick or cut the yoke wire that is running inside the yoke tube.
7. Remove the bolt that runs through the main hanger link into the upper box ears.
8. Remove the old gooseneck by removing the cotter pin in the lower pivot pipe.
9. Slide the new swivel into the inboard frame pivot. Re-install the cotter pin in the lower pivot tube.
10. Insert the yoke wires and long yoke extension pipe into the stub pipe of the conversion.
11. Re-install the main hanging bolt removed earlier from the main link.
12. Adjust the length of the extension in the stub pipe to make the cable idler pulleys level, then tighten the set screw in the stub pipe.
13. Re-wire the yoke leads to the swivel extension wires and fasten with wire nuts. Re-wire the junction box connections following the color coded wires.
14. Re-install drive cable and tighten to proper tension.
15. Remove blocking material used to hold-up machine and re-adjust suspension chains, so the frame is 1" to 2" higher at the center of the bin than at the bin wall. Run the trolley in and out a complete cycle to assure it clears everything.
16. All parts for this conversion can be found in the current Design III Owner's manual. The lower weldment only is part # 103A0124.

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