



Gooseneck and Swivel Replacement 1965 to Present

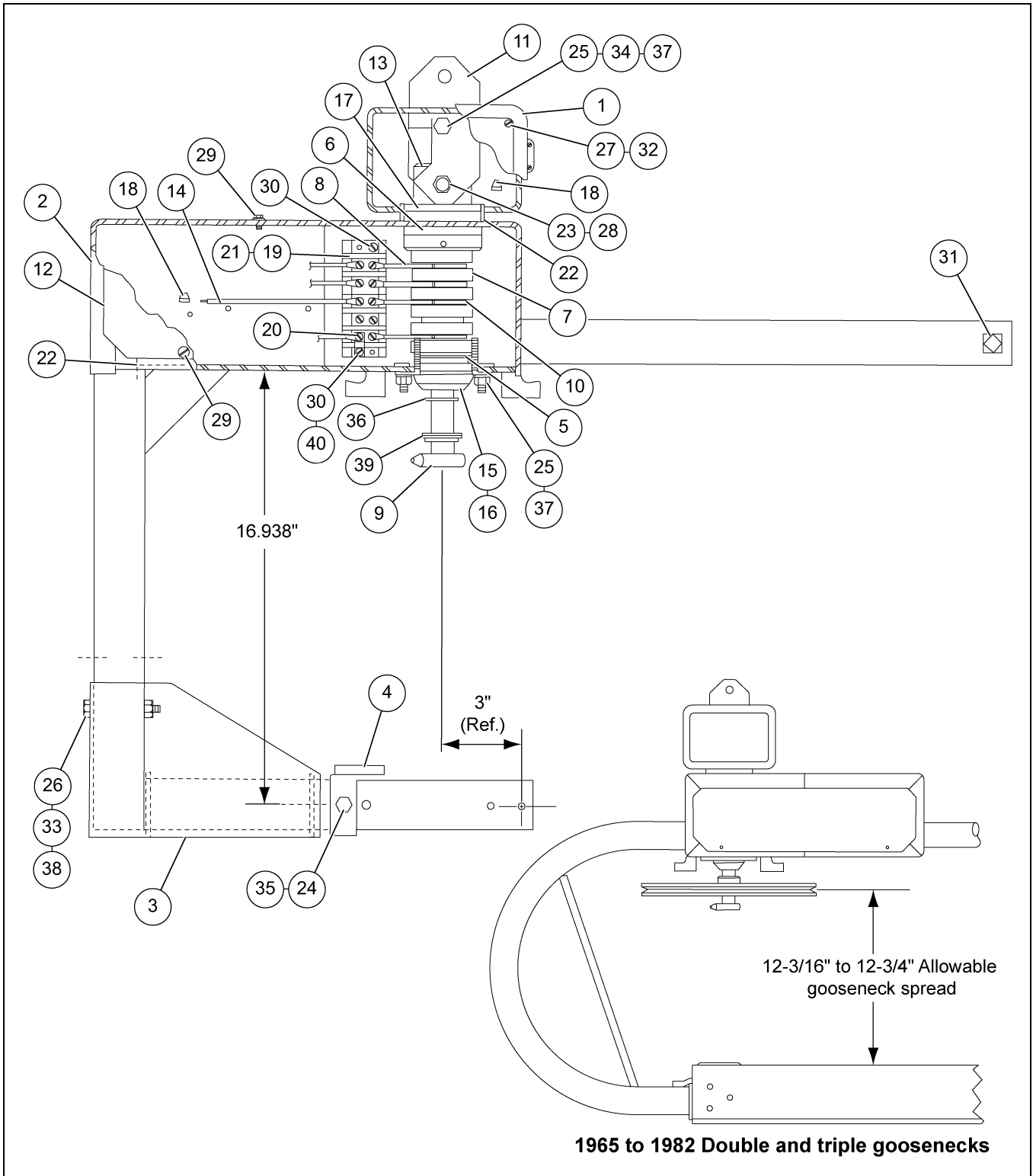


Figure 1

Date: 10-13-17 V1.0



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

Ref #	Part #	Description	Qty
1	103A0003	Junction Box Cover	2
2	103A0127	Gooseneck and Swivel Convection	1
3	103A0128	Gooseneck - Pivot Tube	1
4	103A0129	Gooseneck - Pivot Stop	1
5	103E0012	Washer - Insulating, 2" O.D.	2
6	104A0015	Bearing, Thrust, Swivel	1
7	104E2005	Swivel - Electric, 3 PH	1
8	104E0020	Strap - Swivel, 9.35" OAL	4
9	105A0030	Center Drive Arm and Shaft	1
10	105A0097	Swivel Spring Clip	4
11	105A0099	Junction Box Assembly	1
12	106A052	Cover - Swivel Box	2
13	106A055	Bushing - Flanged, Swivel	1
14	106A032	Tube - Extension	4
15	PT0235	Ball, Bearing Bronze 7/8" I.D. x 2" O.D.	1
16	PT0421	Flange, Three Hole Plated 3-3/4" O.D.	2
17	PT0808	Seal, for 2-1/4" Shaft	1
18	1EL0557	Connector, 3M Scotchlok B/G+	8
19	1EL0885	Connector, Terminal Block 5P 55A 600V	1
20	1EL0895	Connector, Terminal Block- Jumper	1
21	1EL0897	Terminal Block Insulating Strip	1
22	MS0372	Silicone Rubber Sealent (RTV 108) (Caulk between welds)	A/R
23	1FH0728	Nylock Nut 1/2"-20 Plated Grade 2	2
24	1FH0735	Hex Lock Nut 5/16"	1
25	1FH0764	Hex Nut 5/16"	4
26	1FH0765	Hex Nut 3/8"	2
27	1FH0783	Hex Machine Screw Nut 10-24	4
28	2FH0435	Bolt, Stud Clinch 1/2"-20 x 1-1/2" ZN Grade 8	2
29	2FH0475	Slotted Hex Washer Head Self-Tapping Screw 10 x 1/2" Type F	6
30	2FH0478	Slotted Hex Washer Head Self-Tapping Screw 10 x 1" Type F	2
31	2FH0617	Screw, Set 3/8"-16 x 3/4" SKT HD ZN Cup Point	1
32	2FH0740	Screw, MS #10-24 x 5" RHS ZN	4
33	2FH0863	Hex Bolt 3/8" x 3"	2
34	2FH1083	Hex Bolt 5/16" x 1-3/4" Grade 5	1
35	2FH1087	Hex Bolt 5/16" x 2-3/4" Grade 5	1
36	3FH0568	Retaining Ring, 7/8" External E-Type Black	2
37	3FH0790	Lock Washer 5/16"	4
38	3FH0791	Lock Washer 3/8"	2
39	3FH0829	Bushing, Machinery Bushing 1-3/8" x 7/8" x 14 Gauge	2
40*	3FH0962	Rivet Washer 3/16"	1

* NOTE: Put between 1EL0896 and 1EL0885.

Gooseneck and Swivel Replacement Kit Installation Instructions (103A0126)

This conversion will now cover either a conversion of the swivel on the 1965-1967 Stir-Ators or a replacement of damaged goosenecks on 1968-1982 Stir-Ators which were not compatible to the Stir-Guard before. (See your dealer for Stir-Guard information.)

1. **Conversion Assembly:** Be sure the correct size pulley was ordered. To install it, remove the junction box covers and remove the 5/16" bolt. Slide the center drive arm out of the swivel and remove the upper snap ring and one washer. Slide the pulley onto the shaft with the hub up, then replace the washer and snap ring. (See Chart on Page 4.) Carefully slide the shaft up through the swivel so the wires are not pinched or nicked inside the swivel. Secure with the 5/16" hardware. Check the distance between the pivot tube and center of the drive pulley. Adjust it if needed by removing the two bolts in the rectangular tube. (See Chart on Page 4 and See Figure 2 to determine narrow or wide spacing.) Measure the inboard frame pivot, if it is 6" long, bolt the pivot stop in the back hole. If it is 4" long, bolt the pivot stop in the front hole, and cut off 1-1/4" of the pivot tube, leaving about 3/8" past the inside small hole for the cotter pin. (See Figure 3.)

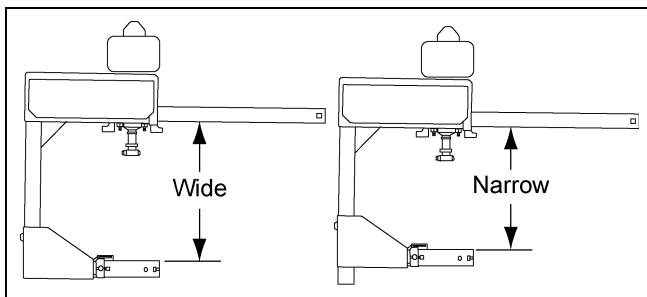


Figure 2

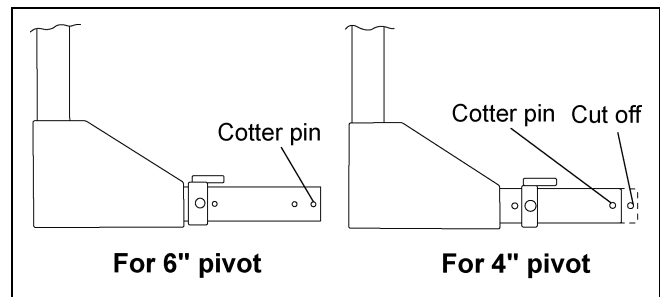


Figure 3

2. **Assembly of Conversion to Unit:** Disconnect power to the Stir-Ator and be sure it cannot be accidentally turned ON while work is being performed.
3. Support the bridge frame with blocking 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 drive pulley.
6. Cut the extension pipe off 14" from the center of the swivel being sure NOT to nick or cut the yoke wire running inside the tube.
7. Remove the main suspension clevis bolt.
8. Remove the old gooseneck by removing the cotter pin at the inboard frame pivot.
9. Slide the new swivel into the inboard frame pivot. Re-install the cotter pin and ring (if necessary) at the inboard frame pivot.
10. Insert the yoke wires and extension pipe into the stub pipe of the swivel (on single auger Stir-Ators, the kick-in stop will have to be modified to fit over the stub pipe).
11. Re-install the main suspension clevis bolt.
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.

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

13. Re-wire the yoke leads to the swivel extension wires and fasten with wire nuts. (See Figure 4.) Rewire the junction box connections following the color coded wires. If you have a single phase unit cap off the red swivel wire.

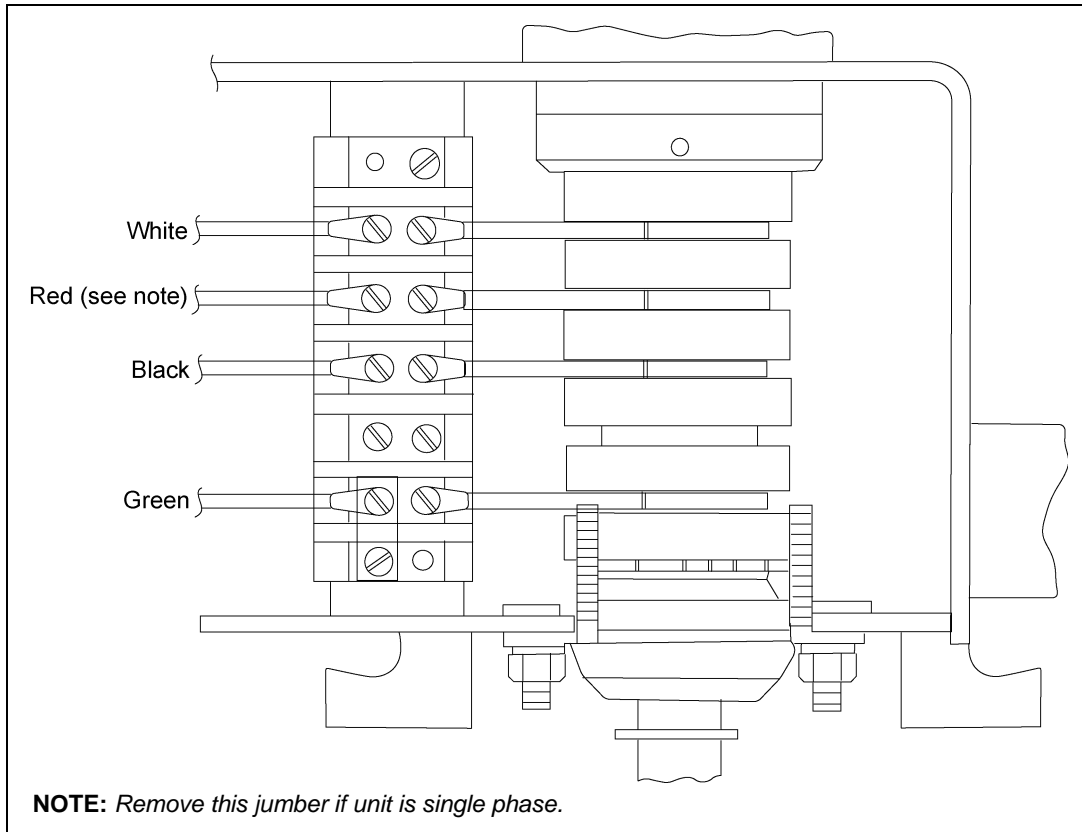


Figure 4

14. Put the cable back on and tighten to proper tension.
15. Remove the blocking and re-adjust the suspension chains so the bridge 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 be sure it clears everything. Check the adjustment of the tilt-in and tilt-out stops at this time also.

Drive Pulley Selection Chart

Production Year	# of Augers	Drive Pulley	Part #	Pulley to Frame space	Pivot Tube Length
1965-1969	1	10"	103A0048	Narrow	6"
1970-1982	1	10"	103A0048	Narrow	4"
1965-1966	2	12"	103A0049	Narrow	6"
1966-1969	2	14"	105A0101	Wide	6"
1970-1982	2	12"	103A0049	Wide	4"
1970-1982	3	14"	105A0101	Wide	4"