MODEL ATF™ Support Cap Installation

Part Number 53220

Procedure

DANGER: Always disconnect power to the system when servicing or maintaining the equipment. Failure to disconnect power may cause injury or death.

All electrical wiring must be done by a qualified electrician in accordance with local and national codes.

1. **Make sure power is disconnected from the feeding system!**
2. Remove the anti-roost cable.
3. Remove the lift cables and actuator winch cable if installed.
4. Install plastic bearings, **Figure 1.**
   Note: Make sure bearings snap into place!
5. Position the cap over the anti-roost insulator, **see Figure 2.**
6. Center the drop tube and cap on the feed tube outlet hole.
   Note: Feed may leak if drop tube is not centered on outlet hole!
7. Drill two 7/32" *[5.56 mm]* holes into drop tube through cap top holes.
8. Install two screws (part number 48439) in the top of the cap. This will load the cap and pull the drop tube up to the cap.
   Note: Do not overtighten the screws! See Figure 2.

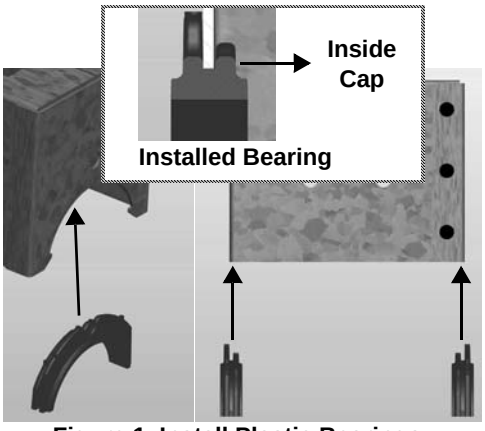
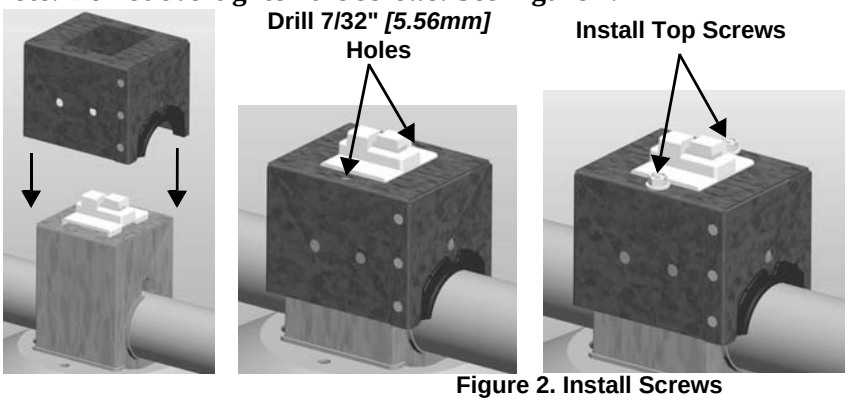


Figure 1. Install Plastic Bearings



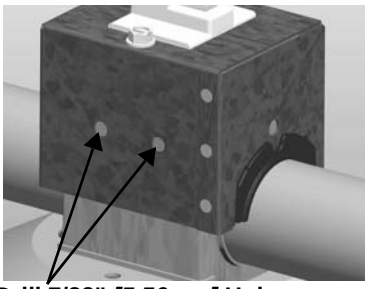


Figure 2. Install Screws

9. Drill two 7/32" *[5.56 mm]* holes in two sides of the cap using the holes in the cap as a guide.
10. Install the remaining four screws (part number 48439) into the sides of the drop tube, **see Figure 2.**
11. Install the feeder stop clips on the feeder tube. Position the stop clips against the drop tube on both sides, **see Figure 3.**
12. Use one band clamp per side to lock the stop clip in place.
13. Drill a 1/4" *[6.35 mm]* diameter hole for the actuator winch cable on both sides of the drop tube. Use the hole in the cap as a template for drilling, **see Figure 3.**

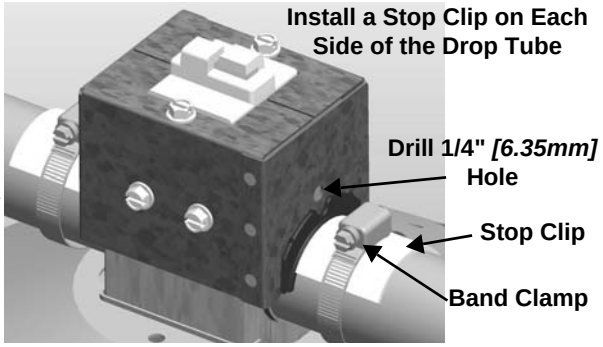


Figure 3. Install Stop Clips and Drill Cable Hole

14. Wrap the first five inches of the actuator cable with tape to stiffen the cable. This will aid in installing the actuator cable though the drop tubes.
15. Reinstall the actuator winch lift cable if previously installed.
16. **If** actuator winch is **not used** reinstall anti-roost cable.

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Actuator Winch Lift Cable Installation

1. Anchor spring to clamp on each side of the actuator winch, **see Figure 4.** Attach the tube clamp/spring assemblies to the feeder line tube at a maximum distance of 100 feet *[30 m]* from the actuator winch.

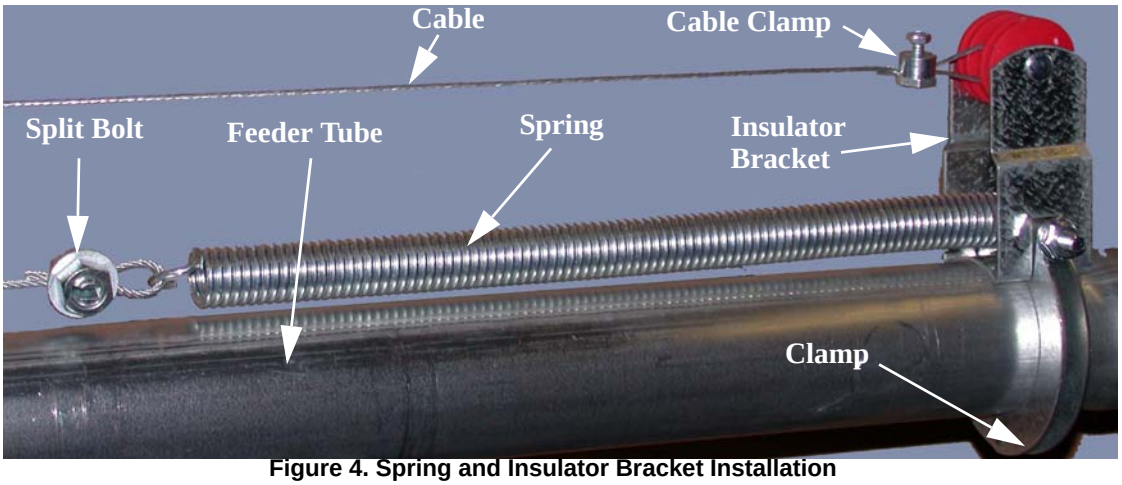

Figure 4. Spring and Insulator Bracket Installation

2. Lay the cable through the center of the winch hub then install the center clamp to the winch hub. Turn the winch to position "A" on the winch drum, **see Figure 5.**

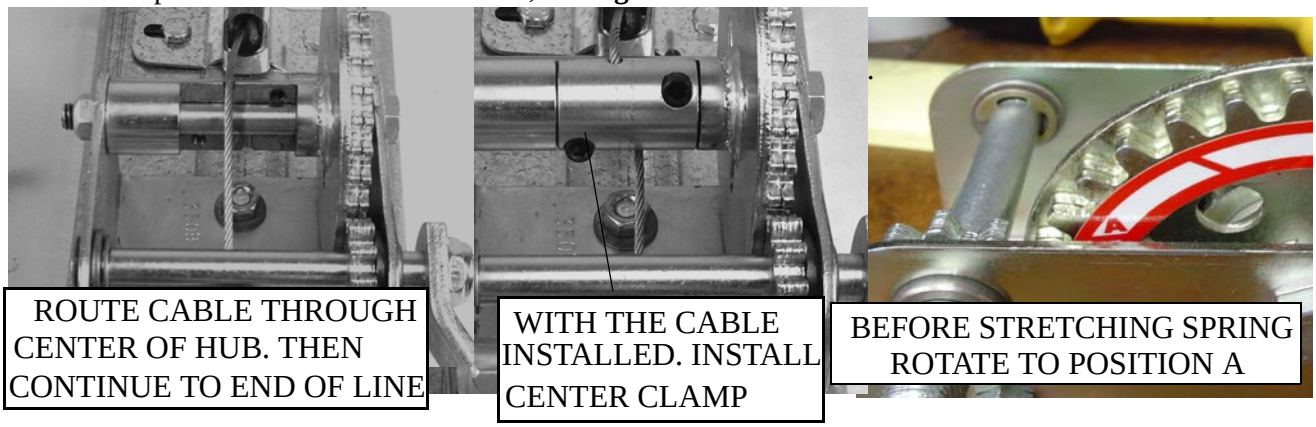

Figure 5. Winch cable wrap

3. Thread the cable through every drop tube to support the cable and keep it in position, **see Figure 6.**
4. Loop the cable around the end of the spring, **see Figure 4.**
5. Stretch the spring 14" *[355.6 mm]* and secure with a split bolt cable clamp, **see Figure 4.**

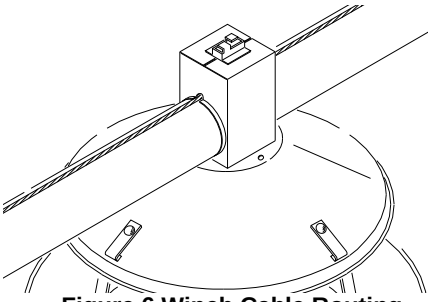

Figure 6.Winch Cable Routing

6. If there is not enough room between the feed hopper and the first feeder pan to attach and stretch the spring. Install the spring in between the first and second pan after the hopper. Then route the cable back to the first pan and attach to the feed tube cable assemblies, **see Figure 7.**

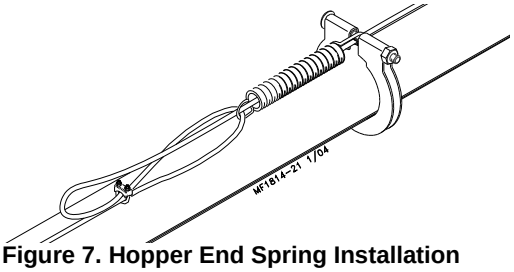

Figure 7. Hopper End Spring Installation

Steel Feed Level Tubes

(Installations with plastic feed level tubes see step 8.)

7. Install two cables at each feed level tube, install the end of the cable through the lower hole from the outside. Then route the cable back through the top hole pulling the cable stop up to the feed cone, as shown in **Figure 9.** The cable stop should be located on the outside of the Feed Level Tube and pulled up tight against the inside.

   Note: After the feeder operates, re-adjustment of the feed level tubes may be done to achieve the desired feed level.

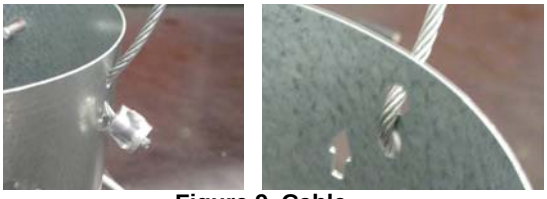

Figure 9. Cable

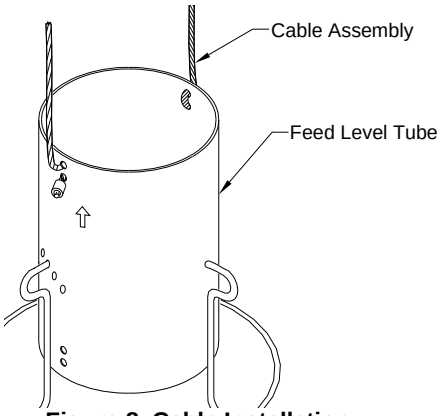

Figure 8. Cable Installation

Plastic Feed Level Tubes

(Installations with steel feed level tubes see step 7.)

8. Install two cables at each feed level tube as shown (if the cable assemblies have not been installed and were previously installed), **see Figure 10.**

   Note: The cable assembly needs to be pulled up tight against the inside.

   Note: After the feeder operates, re-adjustment of the feed level tubes may be done to achieve the desired feed level.

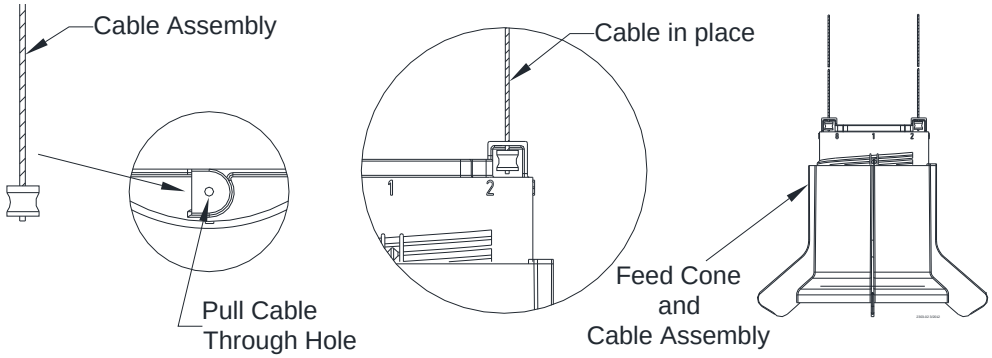

Figure 10.Cable Assembly Installation

9. Thread the cable assemblies through the holes on each side of the pan shield from the underside. Then clamp to the master cable with a cable clamp, **see Figure 11.**

   Note: Before clamping the cable assemblies to the cable, make sure:

   A. The springs at each end of the cable are stretched approximately 14" *[355.6 mm]*.

   B. The feed level tubes are touching the pan with cable assemblies taut.

   C. The stop on the cable assemblies are pulled up against the inside of the feed level tube.

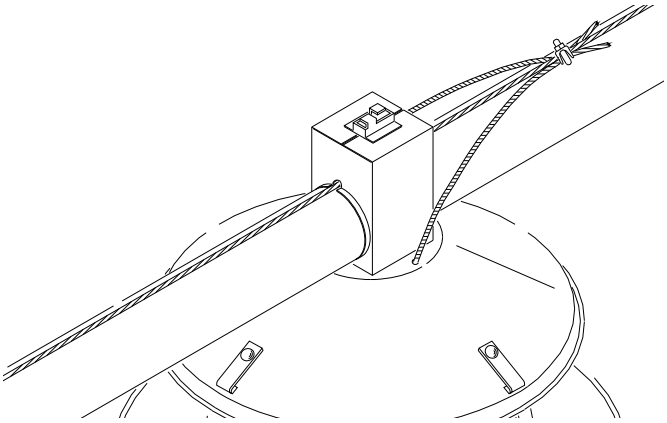

Figure 11. Cable Assembly Installation

10.Check adjustment of the feed level tubes after installation.
- •Winch the feed level tube to the up position.
- •The bottom of the feed level tube should be level with the top edge notched in the drop tube, **see Figure 12.**
- •Operate the actuator winch up and down a few times and adjust cable assemblies as required.

11.Install stop on the actuator winch cable.

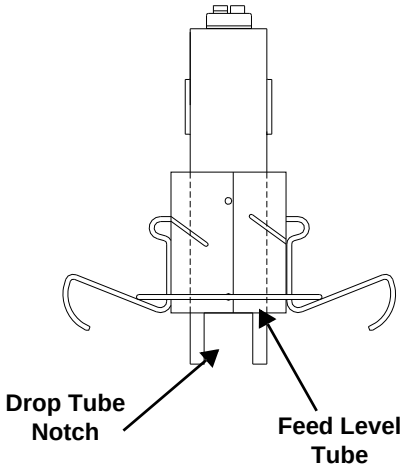

Figure 12. Feed Level Tube Up Position

Actuator Winch Stop

Install a stop on the actuator winch cable to prevent over lifting of the feed level tubes.

1. Use the feed pan closest to the actuator winch. Raise the feed level tube until it is level with the top edge notched in the drop tube, **see Figure 12.**
2. Install one (1) stop on the actuator winch cable as shown, **see Figure 13.**
3. Lower feed level tubes and continue to set the remaining pans.
4. Reinstall anti-roost cable.

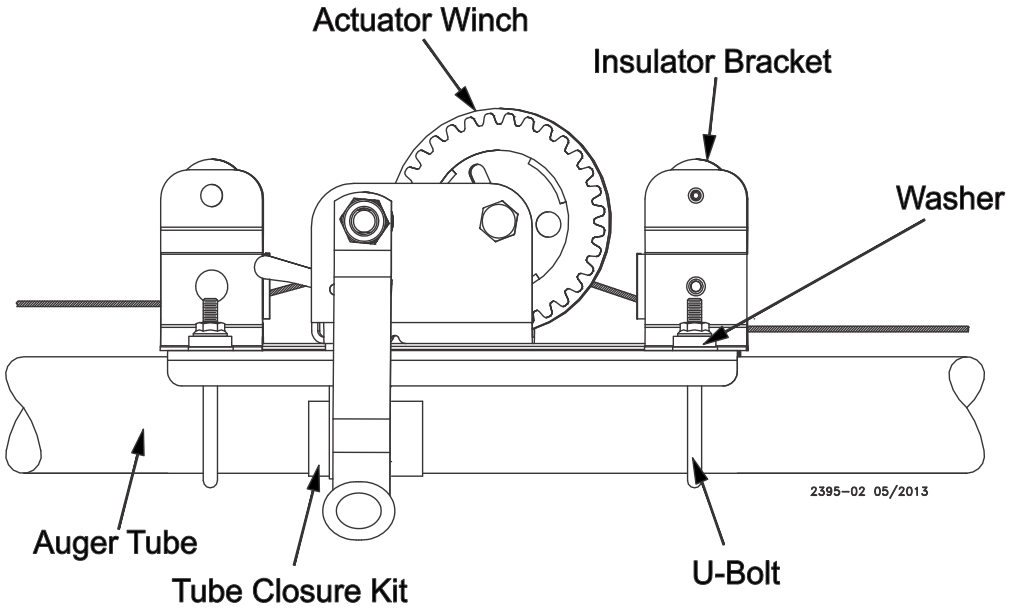

Figure 13. Actuator Winch Stop