

This procedure is for the ANKOM DELTA and A2000 and can be used for the replacement of any or all of these parts and assemblies.



F26 Packing Set Assembly



F28 Agitator with
Packing Set Assembly



DELTA01

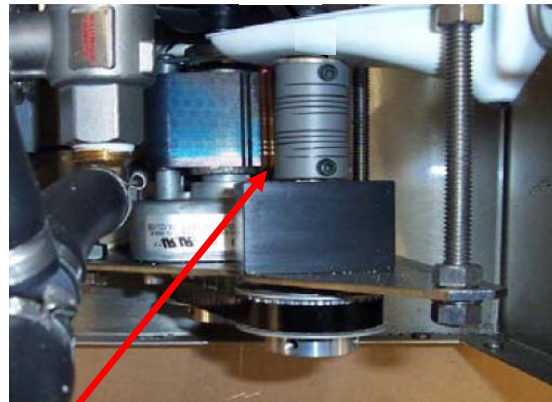
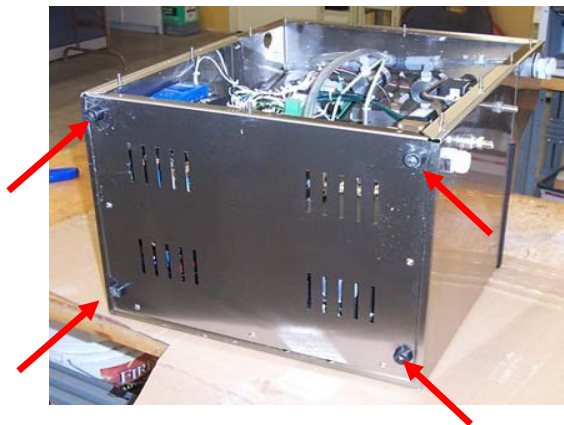


632 Helical Coupler



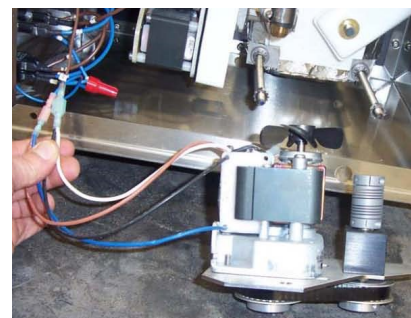
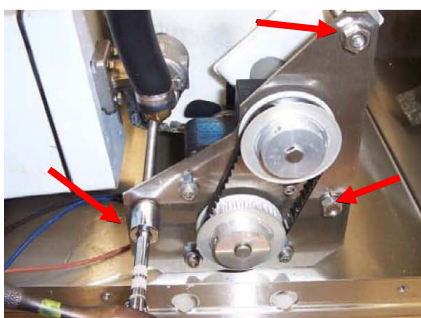
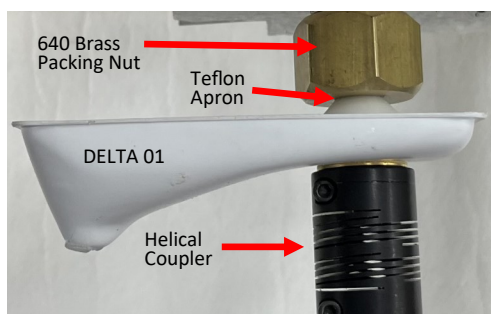
640 Brass Packing Nut

1. Turn off the power to the machine and unplug the DELTA/A2000 instrument to be serviced.
2. Place cardboard on a table. Lay the DELTA/A2000 on its front. Remove the nuts that secure the clear back panel. Remove the panel. Remove the feet and mounting screws, then remove the bottom panel.
3. Inspect the Helical Coupler. If this is broken, order part #632 for replacement.

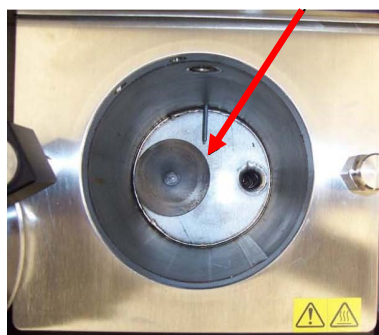


632 Helical Coupler

4. Loosen the Brass Packing Nut until it is finger loose.
5. Loosen the upper set screw on the Helical Coupler.
6. Remove the three nuts that secure the motor bracket in place.
7. Set the motor with bracket aside. Wires can be disconnected at the quick disconnect terminals if needed.
8. Remove the DELTA01 Maintenance Alert Inner Assembly (drip tray, Teflon apron and brass washer) and set aside. If any of these parts are damaged or worn, replace the DELTA01.



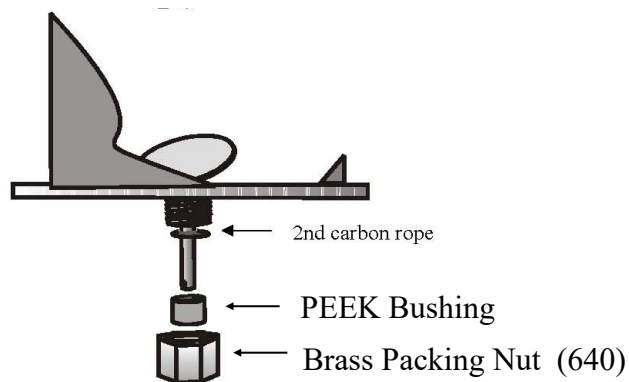
9. Twist and pull up to remove the agitator.
10. Check the agitator for wear and pitting in the shaft surface. The surface should be very smooth without grooves, pits or a thinned diameter.



11. A new F28 Agitator with packing set can be installed if needed.
12. Follow subsequent steps and, if necessary, replace the agitator that comes with the F28 Assembly.
13. Remove the Brass Packing Nut and PEEK bushing.

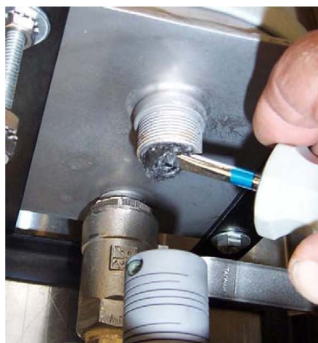
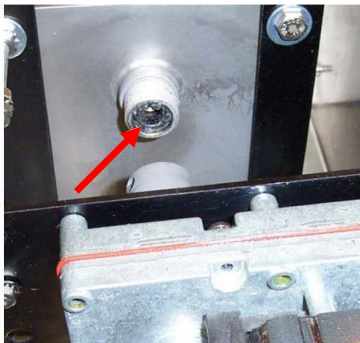


Brass Packing Nut (640)



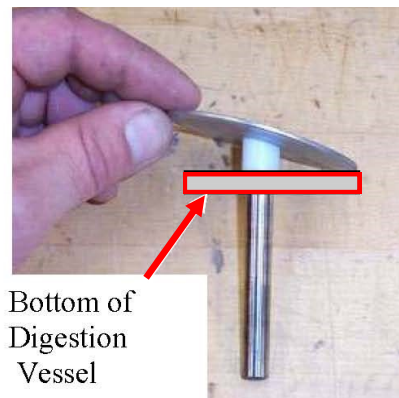
Replacing the Packaging

14. Using a screwdriver, remove the two carbon ropes and one compressed graphite cylinder. When removed, it will look similar to figure 1. **Ensure both ropes are removed or the new packing will not fit.**

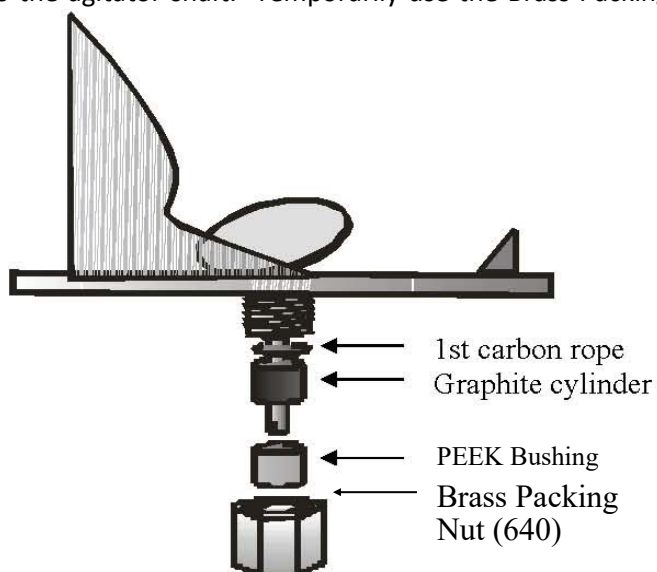
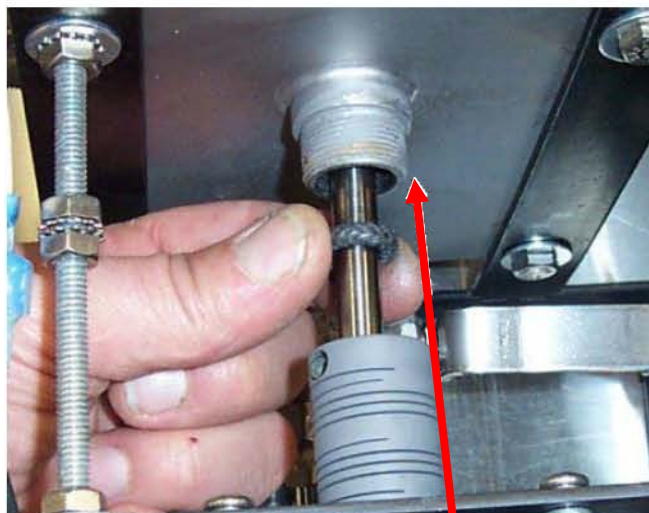


15. Obtain either the new agitator (part of the F28 assembly) or the original one and insert the agitator into the vessel.

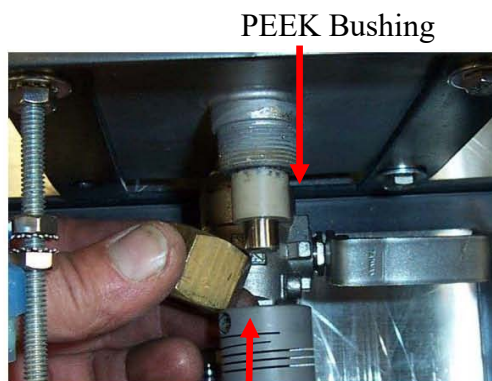
Note:
 The Agitator
 Teflon Collar
 must rest
 against the
 bottom of the
 Digestion Vessel
 when installed.



16. Using the 1st new carbon rope (from the F26 or F28 assembly) wrap this around the shaft and push into the nipple. Push the graphite cylinder into the nipple as far as it will go.
17. Install the PEEK Bushing and Brass Packing Nut onto the agitator shaft. Temporarily use the Brass Packing Nut (part #640) to compress the packing.

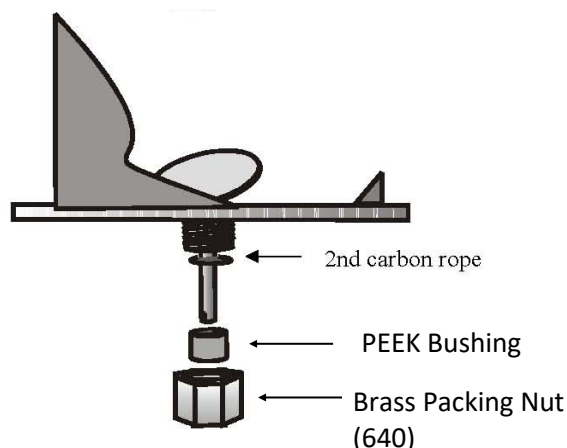


18. Remove the Brass Packing Nut and PEEK bushing. Now install the 2nd carbon rope. Reinstall the PEEK bushing and the Brass Packing Nut. Confirm that the agitator is resting against the bottom of the vessel before final tightening of the Brass Packing Nut. Tighten the Brass Packing Nut. The packing is compressed enough when the bushing top is flush with the nipple bottom after the 2nd rope is installed.

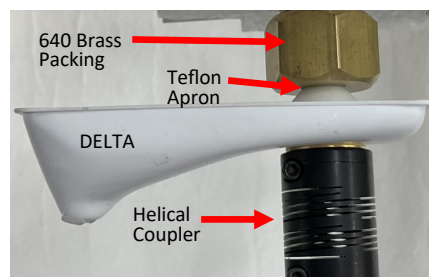


PEEK Bushing

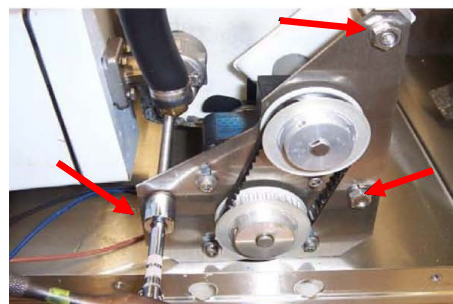
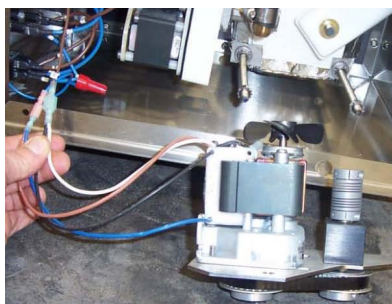
Brass Packing Nut (640)



19. Reinstall DELTA01 Maintenance Alert Inner Assembly (Teflon apron, drip tray, and brass washer), either a new one or the original assembly removed earlier. Finger tighten the two nuts against the drip tray on the left threaded rod.



20. Reconnect the wiring and install the motor assembly. Stand the DELTA/A2000 on its feet and turn the instrument on.



Tighten the Packing

21. Turn the agitation on. For the DELTA instrument this is done in the diagnostics mode, select and turn on agitator. For the A2000, select "FLUSH" mode.
22. With the agitator and motor turning, tighten the packing nut until you can hear a change in the sound of the motor. Loosen the nut slightly.
23. Check the packing nut after four hours of use and adjust if necessary. If assistance is needed, call ANKOM Technology at 315-986-8090 or www.ankom.com/contact/technical-services.

