# Diaphragm Replacement Notes for GE-0401D, GE-0401N, GE-0451D and GE-0501D Pumps

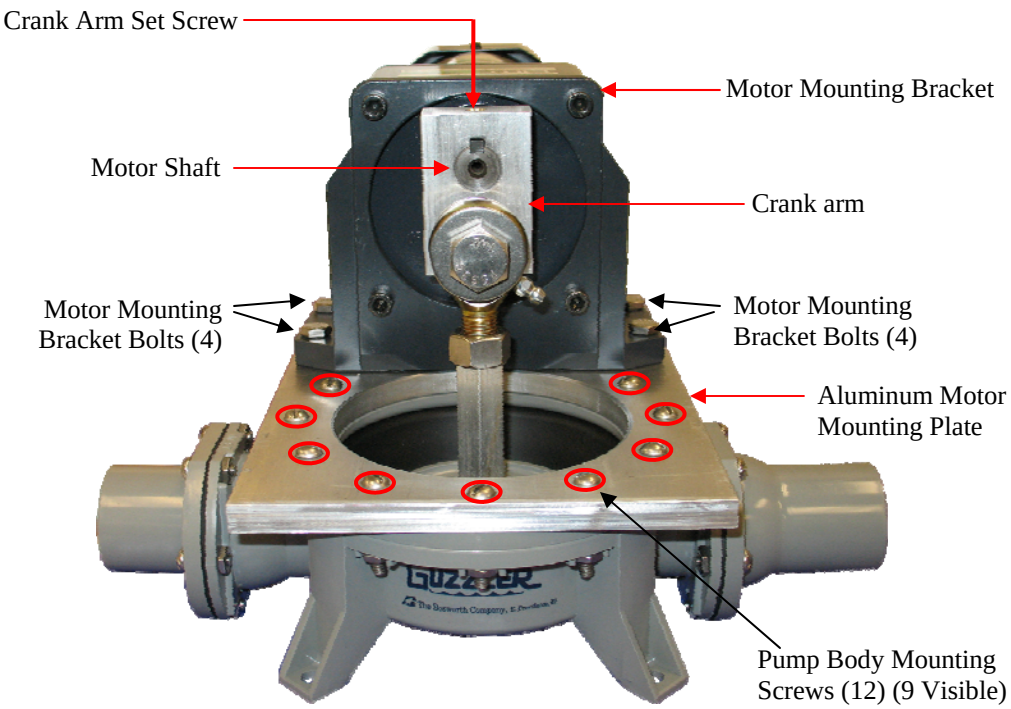



Figure 1

## Removing the Diaphragm

1. Loosen Crank Arm Set Screw, and slide Crank Arm off motor shaft.
2. Remove the four (4) Motor Mounting Bracket Bolts, holding bracket to Aluminum Motor Mounting Plate.
3. Remove the 12 Pump Body Mounting Screws attaching Pump Body and Intermediate Ring to Aluminum Motor Mounting Plate. Lift diaphragm out of groove in pump body. (See Figure 2)
4. Remove Diaphragm from Diaphragm-Connecting Rod-Rod End-Crank Arm Subassembly by unscrewing Diaphragm screw at bottom of Assembly. (See Figure 3.)


Figure 3

Bottom of Diaphragm Subassembly

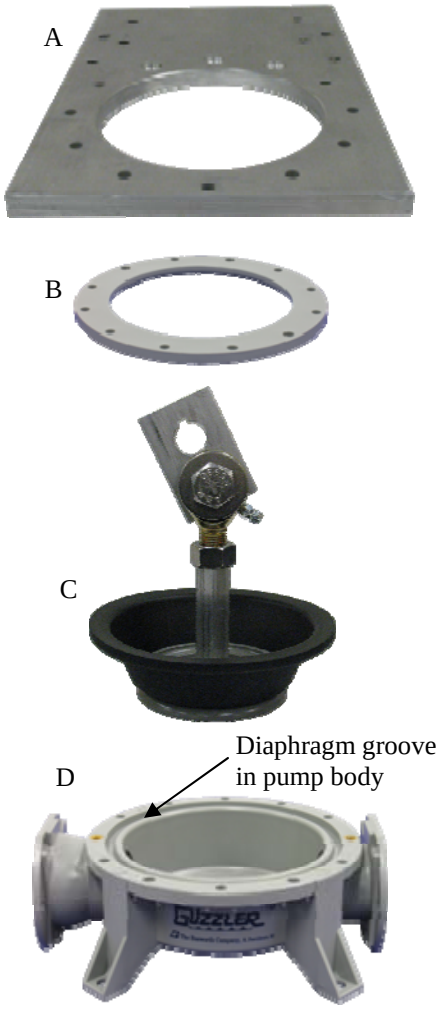



Figure 2

(A) Aluminum Motor Mounting Plate
(B) Intermediate Ring
(C) Diaphragm-Connecting Rod-Rod End-Crank Arm Subassembly
(D) Pump Body

930 Waterman Avenue
East Providence, RI 02914
(401) 438-1110 • fax (401) 438-2713
toll-free (888) 438-1110 • www.thebosworthco.com





Doc M-09-05-GE-0nn1D-021813

## Replacing the Diaphragm

1. Install the new diaphragm between the Upper and Lower Buttons.
2. Insert Diaphragm Screw through Lower Stainless Steel Washer, Lower Button, Diaphragm, Upper Button, Upper Stainless Steel Washer and into Connecting Rod, as shown in Figure 4a, and tighten.

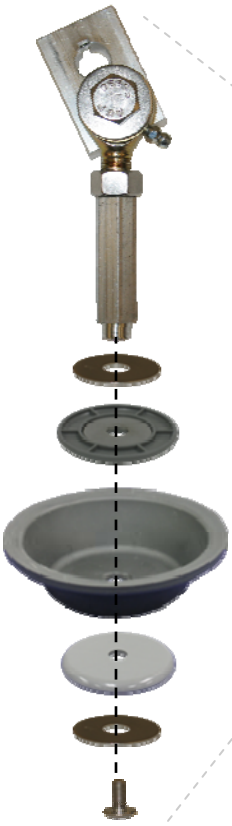


Figure 4a

Diaphragm Subassembly


Figure 4b

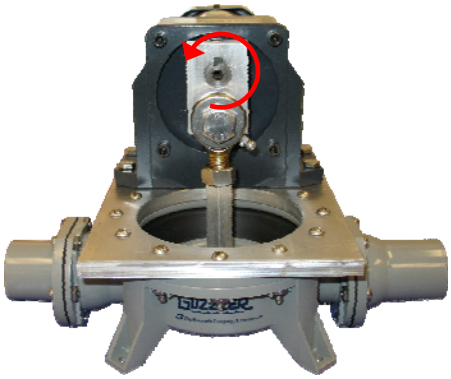
3. Install the Diaphragm Subassembly into the pump body by inserting the lip of the diaphragm into the diaphragm groove in the top of the pump body, making sure that the diaphragm is seated properly in the groove.
4. Attach the pump body to the Intermediate Ring and the Aluminum Mounting Plate, using the 12 pump body screws removed in Step 3 of page 1.
5. Reattach the 4 Motor Mounting Bracket Bolts removed in Step 2 of page 1.
6. Slide the Crank Arm over the Motor Shaft and tighten the Crank Arm Set Screw.

### NOTE:

Prior to starting the pump motor, test the pump by rotating the crank arm by hand through a full 360° degree rotation.

This is done to ensure that the diaphragm assembly does not strike the bottom of the pump bowl on the downstroke and that it does not overly stretch the diaphragm on the top of the upstroke.

At the height of the upstroke, the diaphragm should be somewhat flexible.




930 Waterman Avenue
East Providence, RI 02914
(401) 438-1110 • fax (401) 438-2713
toll-free (888) 438-1110 • www.thebosworthco.com





Doc M-09-05-GE-0nn1D-021813