# ...CONTINUED



## REPLACEMENT PROCEDURE FOR PISTON CUPS

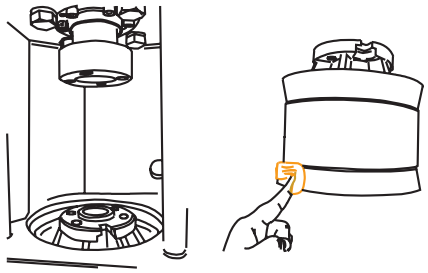
**4.** Using a scraper, clean the water box and barrel of any built-up cream. Apply grease to the beginning of the bore of the barrel and the piston cup. Install the piston cup by using a bar, starting the cup in the bottom of the bore and prying the piston upward and into the barrel. **(See figure 4)**

**5.** Once the piston cup is installed, reinstall the spacer flange with new hardware (M16x45 GR12.9) using blue Loctite and torque it to 220Nm (162ft/lbs). **(See figure 5)**

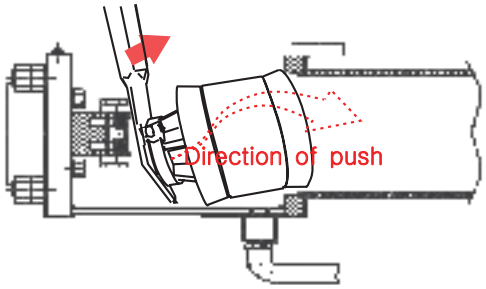
**6.** Close the hydraulic tank air drain. Start the truck, engage into PTO and open the ram change ball valve. Engage the pump with the remote and allow the driver-side ram to come to the top (ensure the pump volume and rpm are low) then turn the pump off. Turn the PTO off, then turn the truck off and drain the hydraulic tank air pressure before the next step. **(Use steps 3-5)**

**7.** Turn the ball valve at the top of the driver-side cylinder back to the open position and reinstall the lock plate, lever and bolt. Close the air drain on the hydraulic tank. Fill the water box with water up to the bottom of the lower hydraulic cylinder retaining bolts. Start the engine, then engage the PTO and test the cylinders to ensure the correct stroke is achieved; if not, ensure all valves were turned back to their original location.

**FIGURE 4**

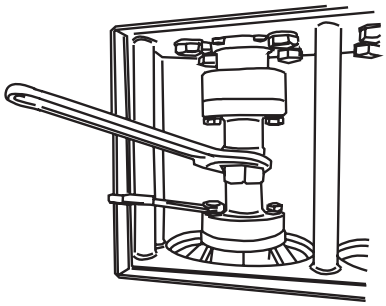


Remove the old ram, clean the bore of the barrel and spread the grease onto the new ram and bore.




Put the bottom side of the ram into the concrete cyl. and push it DOWN ⇨ UP by using the lever.

**FIGURE 5**



Assemble the spacer flange.