

**Service Procedure Rev. 0**

Service Department

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## **Cleaning or Replacing the Down Valve**

With all internal power units the following steps are required to replace or clean the down valve.

1. If the machine is operable, raise the machine and place the maintenance devices into position as show in the owner's manual. If the lift is inoperable, manually raise the lift and insert the maintenance devices as shown in the owner's manual.
2. Remove the nut on the end of the valve stem that holds the solenoid on the valve. slide the solenoid off from the down valve.
3. Unscrew the valve stem (plunger) from the hydraulic pump body.
4. To clean the valve, the rubber washer and o-ring must be removed first. This will allow you to remove the tapered screen. Remember that the o-ring goes closest to the screen. Be careful not to damage the washer and o-ring at the time of removal.
5. With the screen removed, examine the four ports for contamination. With a pen pressing (in) through the hole on the end can manually operate the plunger. ( The valve will only move approximately an 1/8 of an inch) Any good cleaning solvent will be adequate for cleaning this valve.
6. Install in the reverse manner as stated above.
7. Do not tighten the nut holding the solenoid more than 6 ft. lbs. Or the stem may be damaged.

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Caution: Before performing any service on a machine read and understand all safety instructions in the service manual. Manuals are available free of charge, if you do not have one please call the Customer Service Department at the toll free number above.