



# Product Support Bulletin 2003-008

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## Maintenance of Way ~ Work Equipment Bulletin

**DATE:** October 28, 2003

**SUBJECT:** Propulsion Valve Make-up Check Valve Failures

**RATING:**  **DIRECTIVE**  
(Action is required)

**ALERT**  
(Potential Problem)

**INFORMATION**  
(Action is optional)

**PRODUCT IMPROVEMENT**  
(Enhance Product)

**MACHINE MODEL(S):** Super B Spike Drivers  
Hydra-Hammer A & B

**SERIAL NUMBER(S):** Super B Spike Drivers: All  
Hydra-Hammer A & B: 1001-1043

**SUMMARY:** Replace the Make-up Check Valves in the Propulsion Valves, p/n **83404824 (Manually Operated Valve)** and **83404836 (Electrically Operated Valve)** with a **Plug, p/n 23164405**.

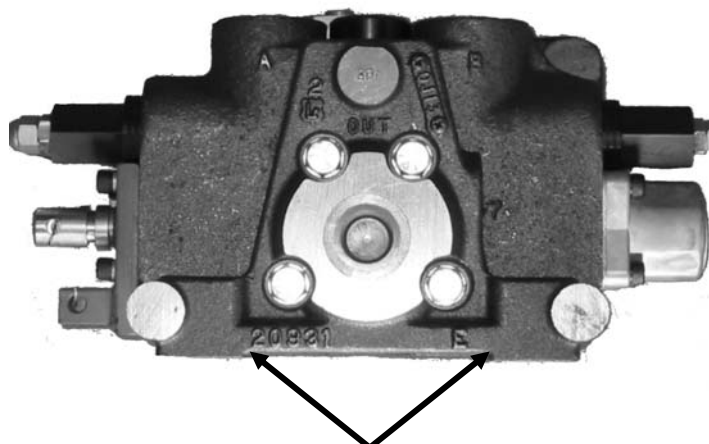
**OPERATIONAL IMPACT:** There are 2 Make-up Check Valves in each Propulsion Valve. These check valves help to prevent cavitation of the travel motor when the machine is coasting. If one of the check valves fails, the machine will not propel in one direction. Replacing the check valves with these plugs will eliminate the check valve. Because there is an external make-up check valve added into the hydraulic system, the internal check valves are not required and may be removed with no damage to the motor.

**ACTION:** The Propulsion Valve must be removed from the machine. The 2 check valves are removed and replaced with the plugs. The Propulsion Valve is then reinstalled on the machine. It should take about 2 hours to make the change. See Page 2 for check valve location.

**WARRANTY:** None



Check Valve Location



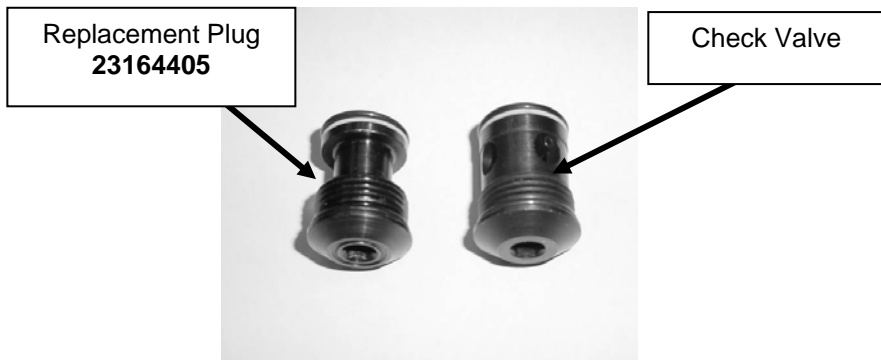
Check Valves Located on Bottom Surface of Valve  
Manual Valve Shown – Electric Valve is Similar



Valve Mounting  
Holes

Replace These Check  
Valves with Plugs

Bottom Surface of Valve



Replacement Plug  
23164405

Check Valve