Product Support Bulletin 2007-013A

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Maintenance of Way ~ Work Equipment Bulletin
NOTE – THIS BULLETIN REPLACES BULLETIN 2007-013

DATE:        April 12, 2008

SUBJECT:    Pump Outlet Ball Valve Kit – 98410237 & 98450041
            Brake Valve Filter Plate Kit - 98410238

RATING:      DIRECTIVE
            (Action is required)

            INFORMATION
            (Action is optional)

            ALERT
            (Potential Problem)

            PRODUCT IMPROVEMENT
            (Enhance Product)

MACHINE MODEL(S):

- CX Hammer
- C-CX Hammer Conversion
- Model C Spiking Machine
- 99C Spiking Machine
- Hydra-Spiker Model 44
- Hydra-Hammer Model B-2
- SP2R Spike Puller
- Grabber LS-2 Spike Puller
- Grabber Conversion
- Anchor Remover Model 67
- Anchor Applicator Model E and Model F
- Super Claws LS-1 Spike Puller
- Super Claws Conversion
- Production Screw Spiker
- M3 Machines
- SS Spiker
- Two-Tie Screw Spiker

See Page 2 for Machine Serial Numbers
Contamination in the hydraulic system may become trapped in the Brake Valve of these machines, which might prevent the brakes from applying normally.

To help keep contamination out of the Brake Valve, a Brake Valve Filter Plate Kit, p/n 98410238, has been designed and is now available. See Figure 1 on Page 3. The SS Spiker uses a different type of brake valve than the rest of the listed machines and does not require the Filter Plate.

Also, there have been instances of the brakes not being applied when the Emergency Stop Pushbutton was pressed and the Brake Valve was stuck in the released position. This was due to pressure being held in the Brake Cylinders by the Check Valve installed on the outlet of the main pump.

This Check Valve was installed to allow the Emergency Pump to be operated without back feeding through the main pump. A Ball Valve replaces the original Check Valve on the pump outlet port. This Ball Valve is opened for normal operation and closed when the Emergency Pump is being used.

There are 2 different sizes of Ball Valves used, depending on the machine and the hydraulic pump installed on that machine. Model C Spiking Machines, 99C Spiking Machines, Grabber Spike Pullers, Anchor Removers, Production Screw Spikers and some M3s are equipped with a Vickers model PVH131 or PVM131 pump and use Ball Valve Kit 98450041. All other listed machines are equipped with a Vickers model PVH57 or PVM57, model PVH74 or PVM74 or model PVH98 or PVM98 pump and use Ball Valve Kit 98410237. Please refer to the chart on Page 4 to determine which Ball Valve you will need for your particular machine.

The 98410238 Filter Plate Kit will help prevent contamination from entering the Brake Valve from the Pump and also from the Brake Cylinders which could cause the valve to stick in the released position.

The 98450041 or 98410237 Ball Valve Kit will allow the pump pressure to quickly bleed out of the Brake Cylinders in the event the Emergency Stop Pushbutton is pressed.
ACTION:
The Filter Plate is installed directly under the existing Brake Valve. See Figure 2 on Page 3. Remove the 4 screws holding the Brake Valve to the manifold. Place the Filter Plate in position on the manifold and reinstall the Brake Valve using the longer mounting screws included with the Filter Plate Kit. **The Filter Plate is NOT required on SS Spiker machines.**

The Ball Valve replaces the pump outlet Check Valve. Remove the 4 capscrews holding the Outlet Hose and Check Valve to the pump. Remove the Check Valve. Install the Ball Valve on the Pump with the O-ring toward the Pump and the Operating Shaft toward the engine. Reinstall the Outlet Hose using the bolts supplied with the Ball Valve Kit. See Figure 3 on Page 4 and refer to the chart on Page 4 to determine which Ball Valve Kit you need for your particular machine. **Make sure to follow all Lock Out/Tag Out procedures when installing the Filter Plate and Ball Valve.**

WARRANTY:
Filter Plate Kits and Ball Valve Kits will be supplied under warranty for all machines built in 2006 or 2007. Please contact the Nordco Service Department at 1-800-445-9258 to see if your machine is covered under this warranty.
**Figure 3**
Typical Ball Valve Kit Installation
Install with Operating Shaft toward Engine

### Pump Ball Valve Kit Selection Chart

<table>
<thead>
<tr>
<th>MACHINE</th>
<th>SERIAL NUMBERS</th>
<th>PUMP</th>
<th>BALL VALVE KIT</th>
</tr>
</thead>
<tbody>
<tr>
<td>CX Hammer</td>
<td>410500-410783</td>
<td>PVH98 or PVM98</td>
<td>98410237</td>
</tr>
<tr>
<td>C-CX Conversions</td>
<td>410010RBUG-410424RBUG</td>
<td>PVH98 or PVM98</td>
<td>98410237</td>
</tr>
<tr>
<td>Model C Spiking Machine</td>
<td>410100-410199 (except RBUG)</td>
<td>PVH131 or PVM131</td>
<td>98450041</td>
</tr>
<tr>
<td>Model 99C Spiking Machine</td>
<td>410200-410424 (except RBUG)</td>
<td>PVH131 or PVM131</td>
<td>98450041</td>
</tr>
<tr>
<td>Hydra-Spiker Model 44</td>
<td>440001-440008</td>
<td>PVH131 or PVM131</td>
<td>98450041</td>
</tr>
<tr>
<td>Hydra-Hammer Model B-2</td>
<td>1044-1093</td>
<td>PVH131 or PVM131</td>
<td>98450041</td>
</tr>
<tr>
<td>SP2R Spike Puller</td>
<td>310001-310101</td>
<td>PVH98 or PVM98</td>
<td>98410237</td>
</tr>
<tr>
<td>Grabber LS-2 Spike Puller</td>
<td>330600-331001</td>
<td>PVH131 or PVM131</td>
<td>98450041</td>
</tr>
<tr>
<td>Grabber Conversion</td>
<td>330101RBUG-330599RBUG</td>
<td>PVH98 or PVM98</td>
<td>98410237</td>
</tr>
<tr>
<td>Anchor Remover</td>
<td>670001-670029</td>
<td>PVH131 or PVM131</td>
<td>98450041</td>
</tr>
<tr>
<td>Anchor Applicator Model E &amp; F</td>
<td>680232-680325</td>
<td>PVH57 or PVM57</td>
<td>98410237</td>
</tr>
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<td>Super Claws LS-1 Spike Puller</td>
<td>350500-350548</td>
<td>PVH74 or PVM74</td>
<td>98410237</td>
</tr>
<tr>
<td>Super Claws Conversion</td>
<td>350101RBUG-350499RBUG</td>
<td>PVH74 or PVM74</td>
<td>98410237</td>
</tr>
<tr>
<td>Production Screw Spiker</td>
<td>400100RBUG-400111RBUG</td>
<td>PVH131 or PVM131</td>
<td>98450041</td>
</tr>
<tr>
<td>M3*</td>
<td>562-589, 450001-450242</td>
<td>PVH74 or PVM74</td>
<td>98410237</td>
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<tr>
<td>M3*</td>
<td>562-589, 450001-450242</td>
<td>PVH98 or PVM98</td>
<td>98410237</td>
</tr>
<tr>
<td>M3*</td>
<td>562-589, 450001-450242</td>
<td>PVH131 or PVM131</td>
<td>98450041</td>
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<td>SS Spiker</td>
<td>390001-390245</td>
<td>PVH98 or PVM98</td>
<td>98410237</td>
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<tr>
<td>Two-Tie Screw Spiker</td>
<td>400101-400103</td>
<td>PVH131 or PVM131</td>
<td>98450041</td>
</tr>
</tbody>
</table>

*Check your particular machine to determine pump model used.*