



## TECHNICAL SERVICE BULLETIN

<b>NUMBER</b>	<b>16TSB-46</b>	<b>TYPE</b>	<b>SERVICE ALERT</b>		
<b>TITLE</b>	<b>VPLOW BACKDRAGGING VALVE DAMAGE</b>				
<b>REV</b>	<b>A</b>	<b>ISSUED</b>	<b>1/31/2011</b>	<b>REVISED</b>	-
<b>AFFECTS</b>	ALL VPLOWS				
<b>INFORMATION</b>	<p>UNDER SEVERE BACKDRAGGING IMPACT, HYDRAULIC PRESSURE SPIKES CAN OVERPRESSURIZE THE ROD PORTS OF THE POWER UNIT. THIS CAN CAUSE DAMAGE (SWELLING) TO VALVES S4/S5/S6/S7 OR THE S2/S3 VALVES. TYPICAL SYMPTOMS INCLUDE SLOW WING EXTEND, SLOW STRAIGHT BLADE MODE, LOSS OF INDEPENDENT WING CONTROL.</p>				
<b>INSTRUCTIONS</b>	<p>THE 16152014 SHUNT KIT HAS BEEN DEVELOPED TO PROVIDE A BETTER DRAINAGE PATH FOR THE PORT RELIEF VALVES. THIS HAS BEEN SHOWN TO MORE EFFECTIVELY LIMIT MAXIMUM PRESSURE ON THE ROD SIDE COMPONENTS TO 3000 PSI AS DESIGNED.</p> <p><i>NOTE: IT IS IMPOSSIBLE TO <b>COMPLETELY</b> ELIMINATE ALL PRESSURE SPIKES IN CASES OF SEVERE IMPACT. THIS IS, HOWEVER, A SIGNIFICANT DESIGN IMPROVEMENT THAT SHOULD REDUCE AND ELIMINATE THIS ISSUE FOR NORMAL PLOW USAGE.</i></p> <p>INSTALLATION INSTRUCTIONS ARE ATTACHED - .25 HOURS OF WARRANTY TIME WILL BE PROVIDED FOR THIS. IF THE PLOW IS EXHIBITING SYMPTOMS AS DESCRIBED, THE APPROPRIATE VALVES SHOULD BE REPLACED UNDER WARRANTY (WITH APPROPRIATE LABOR REIMBURSED).</p> <p><b>THIS WARRANTY WORK IS AUTHORIZED ON ALL VX PLOWS CURRENTLY IN THE FIELD OR SOLD IN THE 2008/09-2010/11 SEASONS. IT IS HIGHLY RECOMMENDED THAT THE SHUNT BE INSTALLED ON ALL VX PLOWS AS THEY ARE SERVICED.</b></p> <p><b>QUANTITIES PER ORDER MAY BE LIMITED TO ENSURE ADEQUATE MATERIALS TO ADDRESS CURRENT ISSUES.</b></p>				



## 16152014 SHUNT KIT

### INSTALLATION INSTRUCTIONS

If the ports shown in the diagram do not exist on the power unit being retrofitted, contact SnowDogg tech support at 866-974-3644.

**CAUTION:**  
WEAR EYE PROTECTION  
ALWAYS LOWER THE PLOW TO THE GROUND BEFORE WORKING  
AND ENSURE THAT POWER IS OFF THE CONTROLLER.

#### Tools Required:

*1/8" Hex Key  
1/2" or 13mm Socket or Box End Wrench*

1. LOWER THE PLOW TO THE GROUND BEFORE WORKING
2. ENSURE THAT POWER IS OFF THE CONTROLLER.
3. Remove the top cover of the VX Power Unit
4. Remove the 2 port plugs closest to the bumper as shown using a 1/8" allen key. These may be under slight pressure and some oil will escape once the plug is loosened. The plugs will not be re-used.
5. Wipe the mounting surface to remove any debris.
6. Install the SHUNT KIT, tightening the banjo bolts using a 13mm or 1/2" socket to 2-3 ft-lbs (snug).
7. Operate the plow and check for any leaks.
8. Reinstall the top cover of the VX Power Unit.

