TECHNICAL SERVICE BULLETIN

NUMBER 16TSB-46  TYPE SERVICE ALERT

TITLE VPLOW BACKDRAGGING VALVE DAMAGE

REV A  ISSUED 1/31/2011  REVISED -

AFFECTS ALL VPLOWS

INFORMATION

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.

INSTRUCTIONS

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.

NOTE: IT IS IMPOSSIBLE TO COMPLETELY ELIMINATE ALL PRESSURE SPIKES IN CASES OF SEVERE IMPACT. THIS, HOWEVER, IS A SIGNIFICANT DESIGN IMPROVEMENT THAT SHOULD REDUCE AND ELIMINATE THIS ISSUE FOR NORMAL PLOW USAGE.

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).

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.

QUANTITIES PER ORDER MAY BE LIMITED TO ENSURE ADEQUATE MATERIALS TO ADDRESS CURRENT ISSUES.
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
½” 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 ½” 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.