



## TECHNICAL SERVICE BULLETIN

<b>NUMBER</b>	<b>16TSB-37</b>	<b>TYPE</b>	<b>UPDATED SERVICE ALERT</b>		
<b>TITLE</b>	<b>V-PLOW WINGS NOT ACTING INDEPENDENTLY V-PLOW STRAIGHT BLADE MODE NOT WORKING</b>				
<b>REV</b>	<b>C</b>	<b>ISSUED</b>	<b>12/31/2009</b>	<b>REVISED</b>	<b>9/7/2010</b>
<b>AFFECTS</b>	VX SERIES PLOWS - SEE BELOW FOR UPDATED INFORMATION				
<b>INFORMATION</b>	A MANUFACTURING DEFECT HAS BEEN IDENTIFIED CAUSING SOME V-PLOW HPUS TO HAVE AN UNACCEPTABLE LEVEL OF CONTAMINATION CAUSING THE S2 AND S3 VALVES TO INTERMITTENTLY STICK. WHILE THE SOURCE OF THE CONTAMINATION HAS BEEN FOUND AND ELIMINATED, SNOWDOGG ENGINEERING HAS REDESIGNED THE TOP BLOCK OF THE POWER UNIT TO ELIMINATE THE S2 AND S3 SPOOL VALVES THAT WERE SENSITIVE TO THE ISSUE. THEY HAVE BEEN REPLACED BY POPPET VALVES.				
<b>IDENTIFICATION</b>	WHEN LEFT EXTEND IS PRESSED, PLOW SCOOPS AND ANGLE LEFT DOESN'T WORK AND/OR WHEN RIGHT EXTEND IS PRESSED, PLOW SCOOPS AND ANGLE RIGHT DOESN'T WORK				
<b>INSTRUCTIONS</b>	<p>ALL VX PLOWS SOLD IN 2009-2010 SHOULD BE UPDATED TO THE 16152000B HPU USING THE 3016553 SERVICE KIT. THIS IS ELIGIBLE FOR 1 HOUR OF WARRANTY LABOR AND IS REQUIRED ON ALL PLOWS.</p> <p>FLUSHING AND S2/S3 VALVE REPLACEMENT ARE ONLY TEMPORARY MEASURES.</p>				



## 3016553 VX HYDRAULIC KIT

### Description:

Kit to upgrade 16152000 to 16152000B VX hydraulic power unit

### Application:

VX plow with intermittent or ongoing S2 and S3 valve sticking due to contamination.

### Identification:

The 16152000 power unit has 9 coils total.

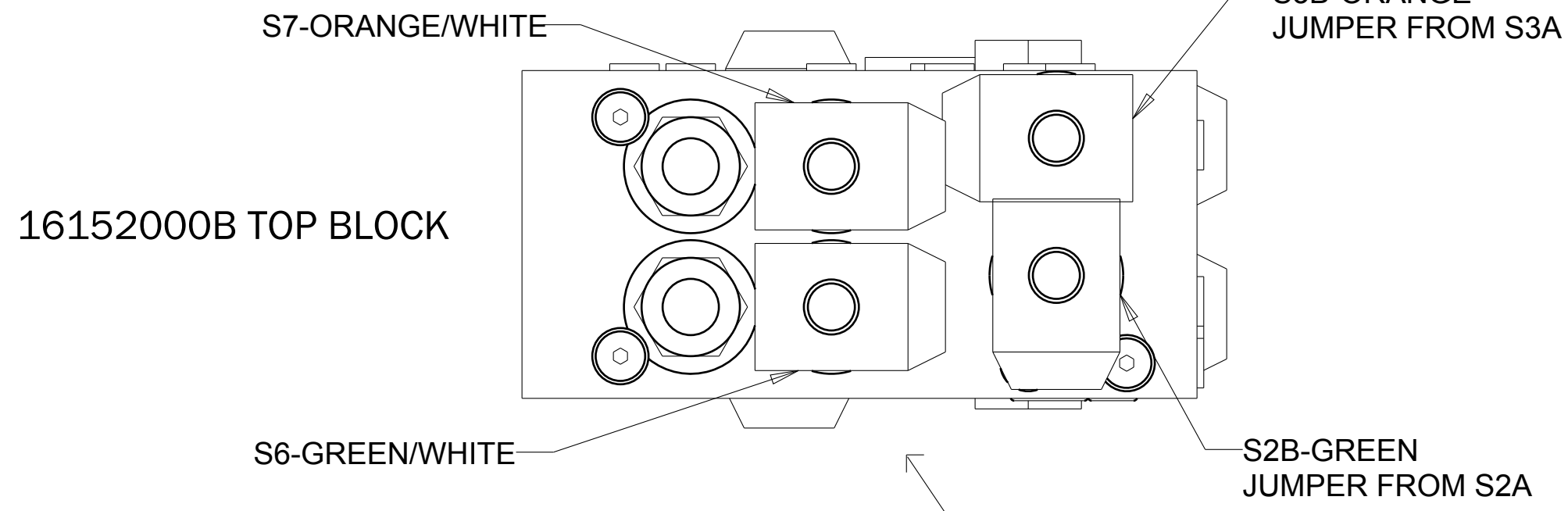
The 16152000B power unit has 11 coils total

All instructions refer to the top ALUMINUM block – nothing is being modified or removed on the center STEEL block.

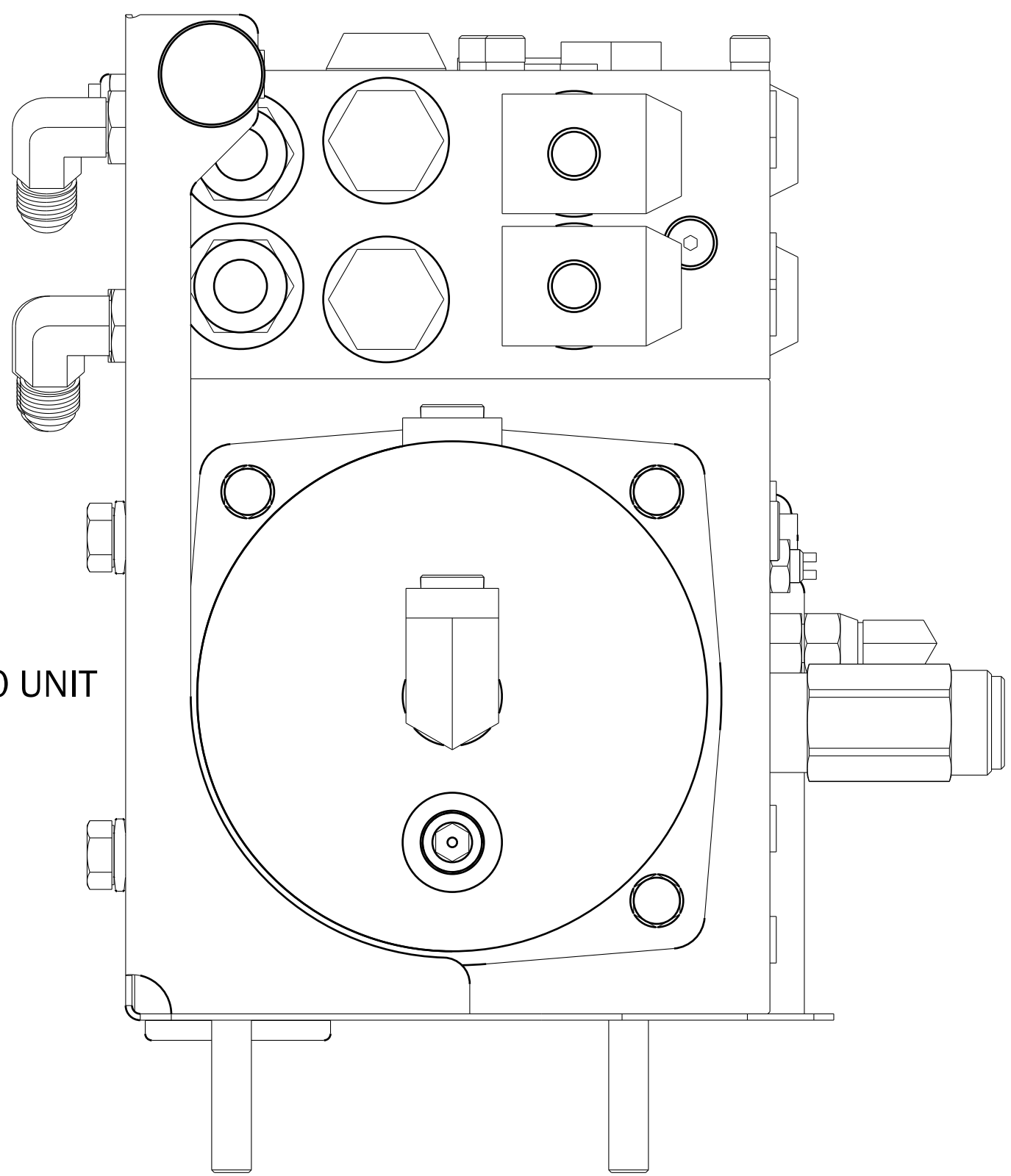
1. Remove all covers from VX power unit.
2. Disconnect wires from all coils on the existing top valve block – note locations.
3. Remove rear angle cylinder hoses and 90 degree fittings (x4). Note the orientation.
4. Remove the 4 bolts mounting the top block to the center block and set aside for reuse.
5. Remove the top block and set aside (this will be returned to BPC)
6. Make sure that both the center block and new top block are free of debris and that the o-rings are still in place and mount the new top block to the center block using the four bolts. Tighten the bolts to ~6 ft-lbs.
7. Assemble the 90 degree fittings to the rear (in the same orientation as before) and secure the hoses.
8. Reconnect the colored and black wires to the coils on the new top block as shown below. Note that S7 and S6 have been moved over in the new block – be sure to connect to the proper coils.
9. The S2A and S2B coils should already be connected to each other with jumpers.
10. The S3A and S3B coils should already be connected to each other with jumpers.
11. Check all connections and operate the plow to check functionality and to ensure all fittings and seals are secure. It may be necessary to add some oil to replace what was lost.
12. Replace the sticker on the lid of the power unit with the included sticker (with updated information).
13. Label old 16152000 top block clearly with provided RMA# and return to BPC for credit. Contact BPC customer service with questions.

If page 2 (power unit diagram) is not attached contact BPC

RESERVOIR SIDE VIEW



EXISTING 16152000 UNIT



MOTOR SIDE VIEW

