



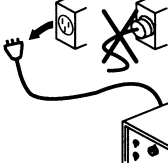
Cooling Bypass Solenoid Valve Kit
HD4070
Field Service Bulletin

804890 – Revision 1 – June, 2004

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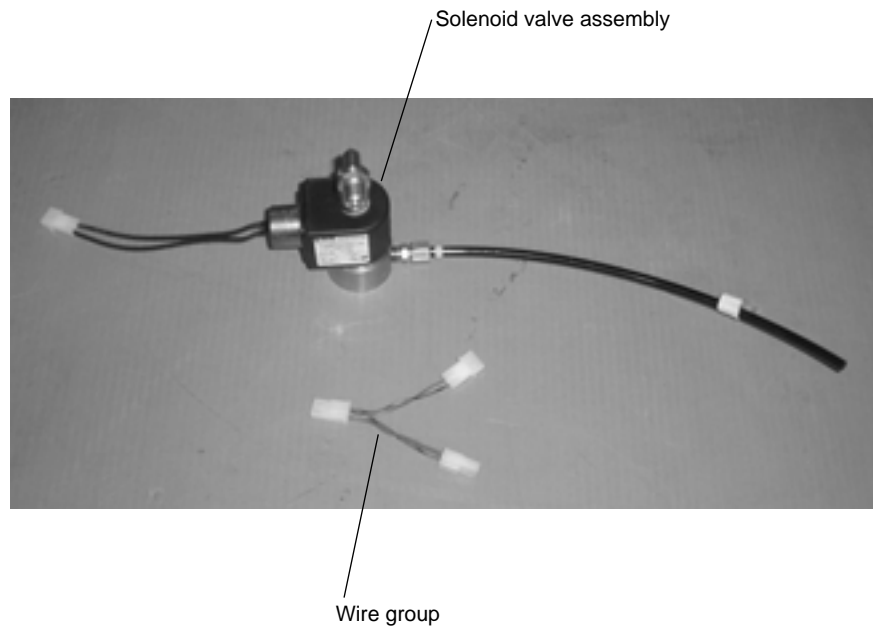
		<p>WARNING ELECTRIC SHOCK CAN KILL</p>
	<p>Disconnect electrical power before performing any maintenance. See <i>Section 1</i> of the systems Instruction Manual for more safety precautions.</p>	

Introduction

Purpose – This kit provides the parts needed to increase coolant flow through the flow-switch.

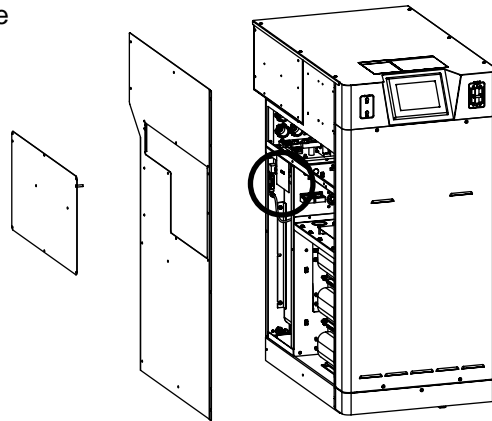
128936 – Kit Contents

Part Number	Description	Qty
229037	Wire group	1
229038	Solenoid valve assembly	1

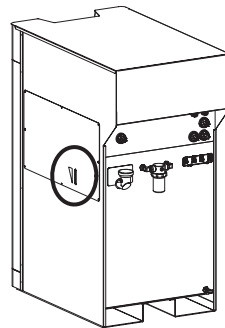


COOLING BYPASS SOLENOID VALVE KIT

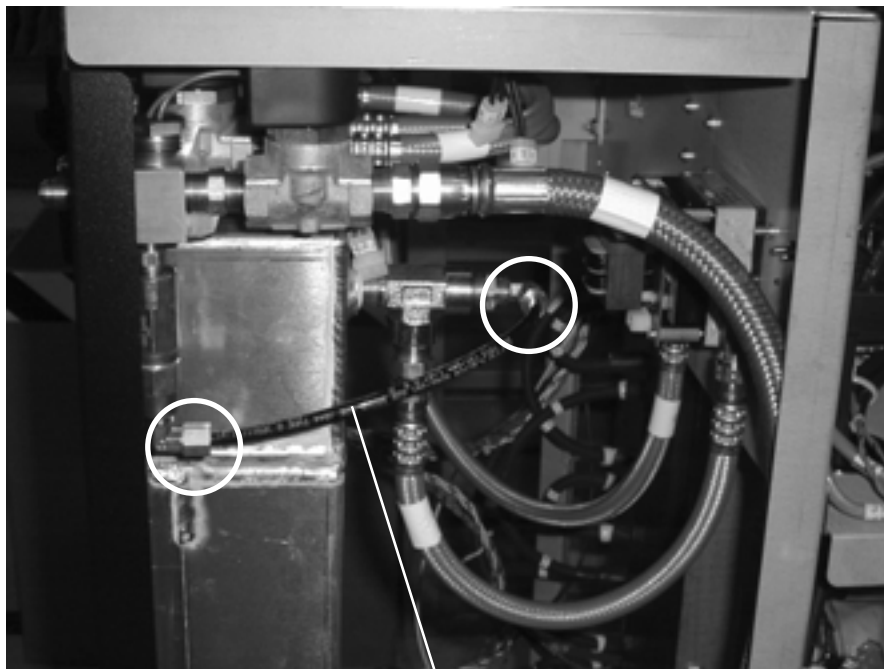
1. Disconnect power to the power supply and remove left side access panels.



2. Drain coolant until sight glass shows half empty, minimum.

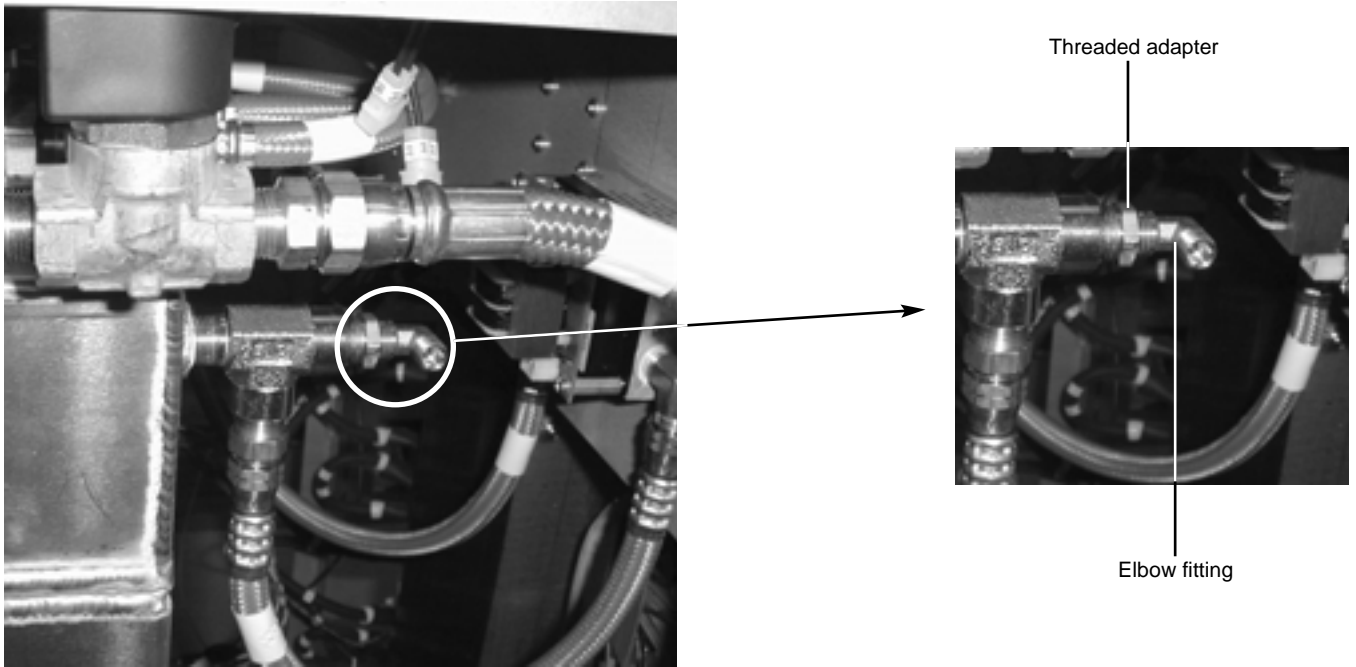


3. Use a 1/2" wrench to disconnect the black by-pass hose at both ends. Save 1 nut. Discard hose and ferrules.

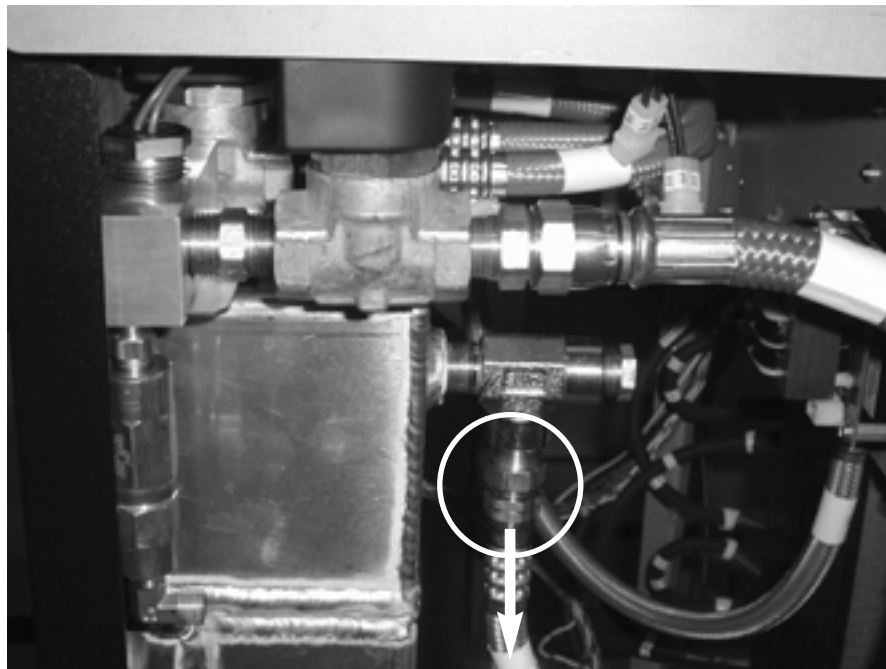


black bypass hose

4. Remove elbow fitting using a 3/8" wrench. Hold threaded adapter with a 11/16" wrench.

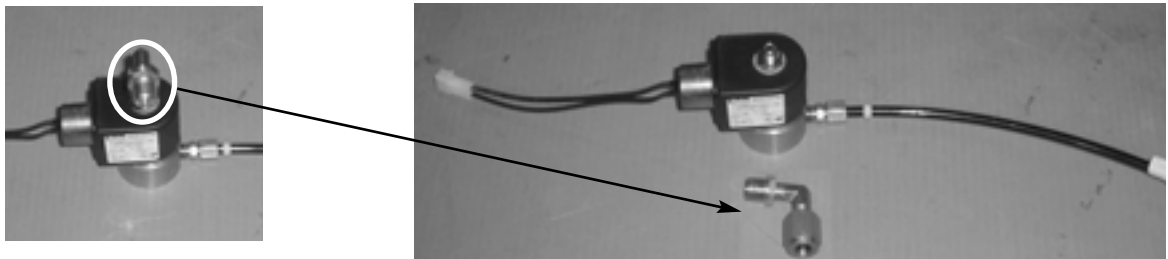


5. Use an 11/16" wrench to disconnect the blue return hose.

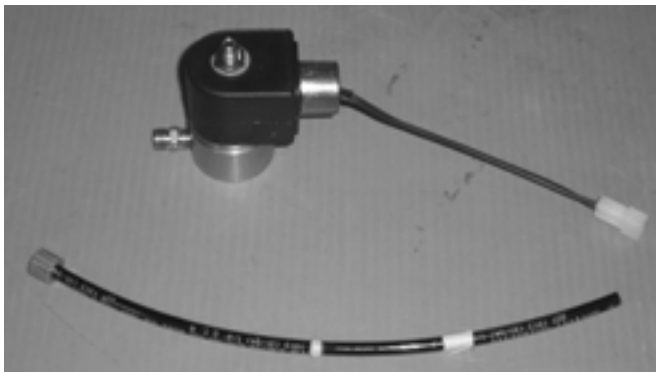


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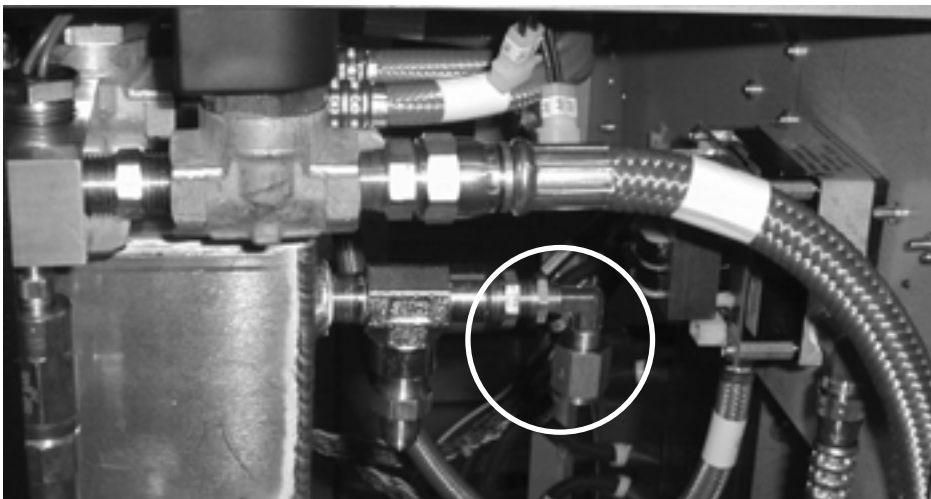
6. Use an 11/16" wrench to remove the outlet elbow from the new valve in this kit.



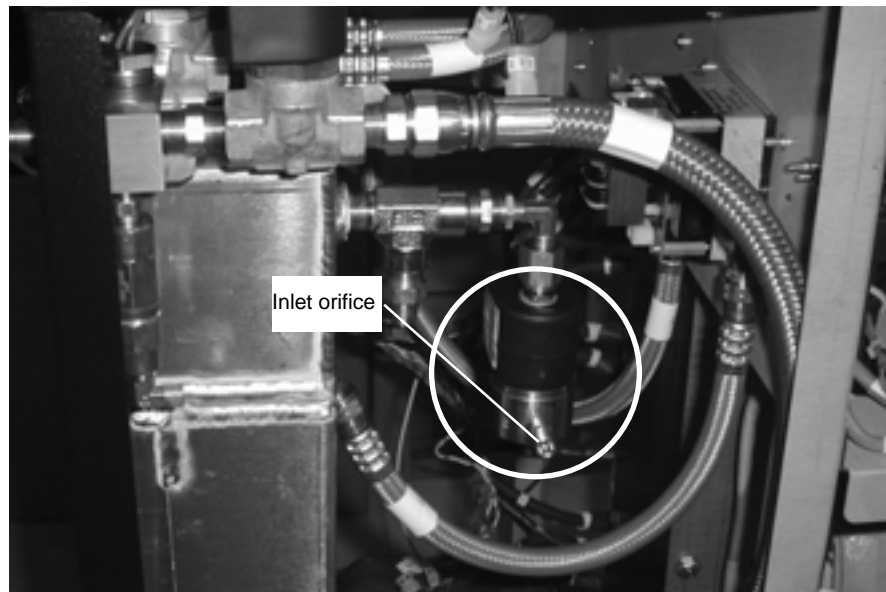
7. Use a 1/2" wrench to remove the black hose from the new valve in this kit.



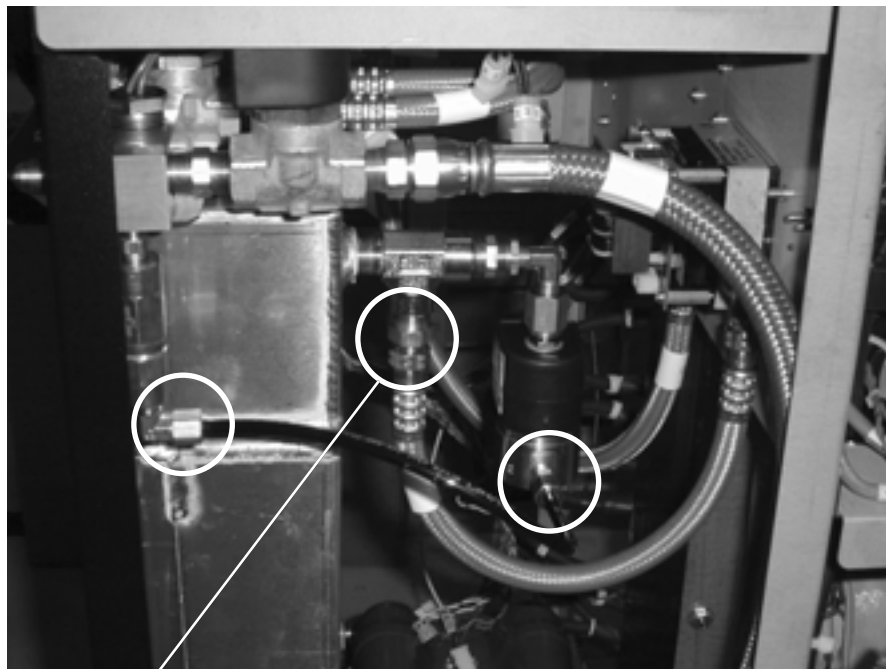
8. Apply thread sealer (Loctite or equivalent) to fitting and install outlet elbow into power supply.



9. Install new valve on the outlet elbow, hand tight, with inlet orifice pointing at you.



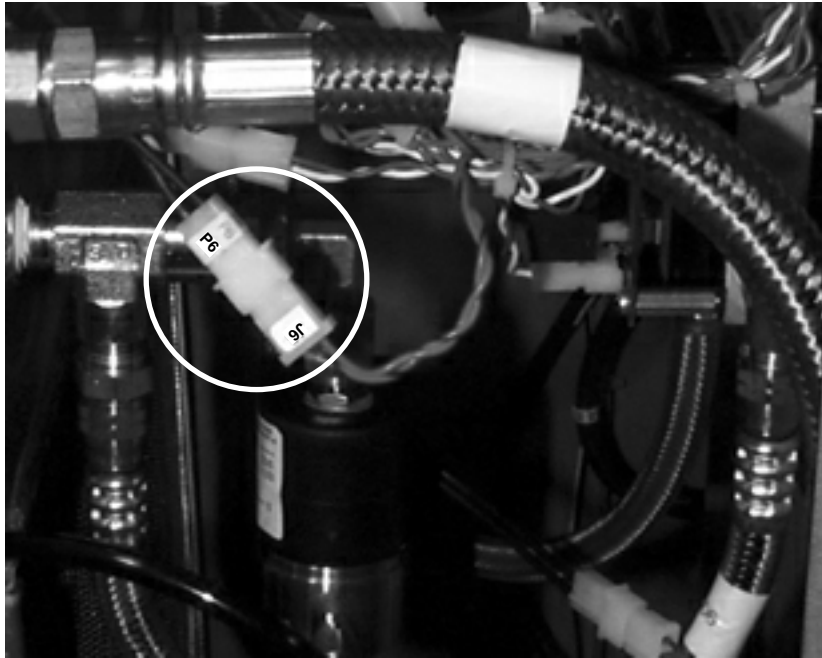
10. Install new by-pass hose. Use the nut that was saved in step 3. Tighten with 1/2" wrench.



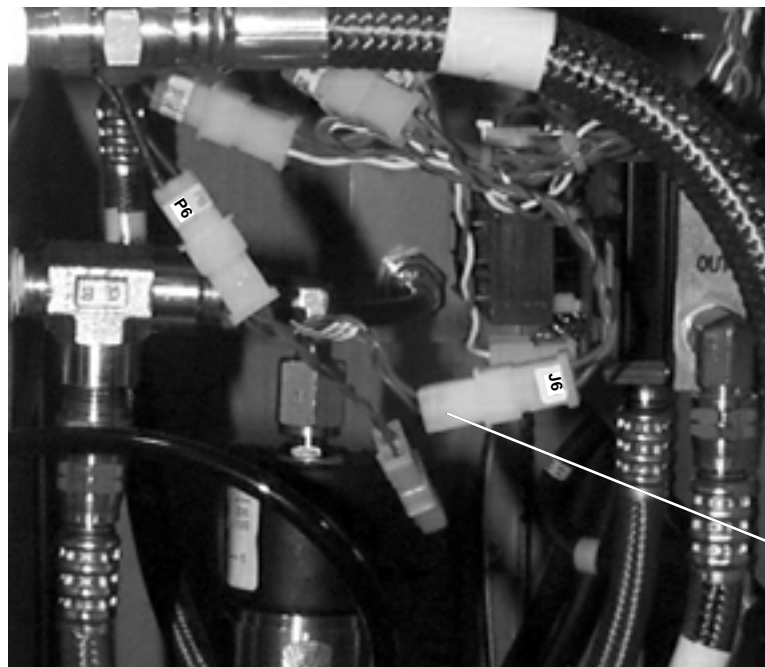
11. Reconnect the blue return hose and Tighten with an 11/16" wrench.

COOLING BYPASS SOLENOID VALVE KIT

12. Unplug valve (connector P6) from wiring harness (connector J6).



13. Plug in jumper to P6. Female ends (sockets) connect to solenoid valves. Male end (pins) connects to harness.



Connects to
wire harness

14. Add coolant until the system is full (see *filling the power supply with coolant* in the instruction manual) and replace side panels.

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