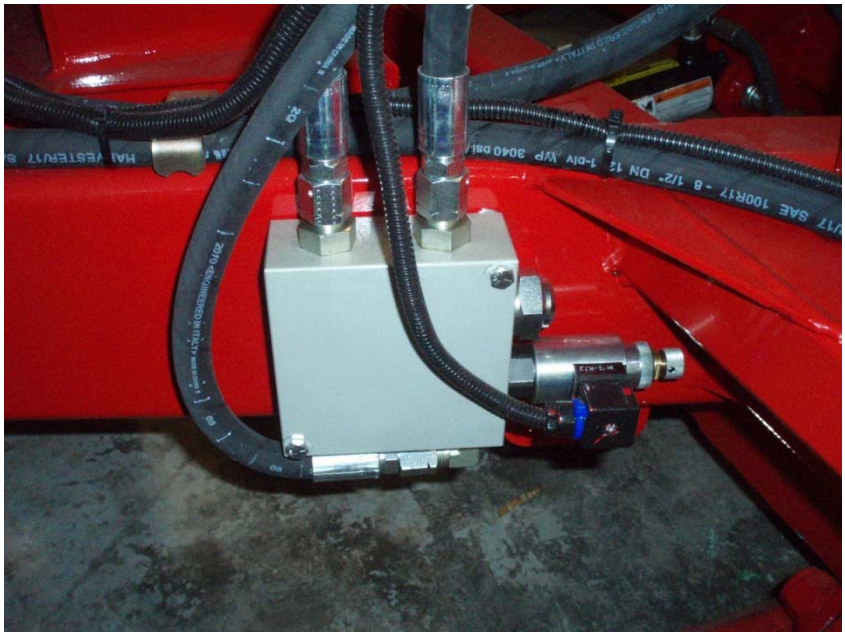
PROCEDURE REF# A-IND-006

Proportional valve test

Testing voltage



This valve controls the flow of the oil throughout the hydraulic system. When in manual mode (using the levers of the machine) this valve is fully open. When in automatic wrapping mode, the computer sends a specific current to the solenoid of the valve to push the spool into the valve and limit the hydraulic flow for different stages of the wrapping cycle. These stages are noted below with their approximate flow (voltage sent to valve).

Note: more voltage = more restriction on the flow through this valve.

- Table rotation (full) : .5 to 2 Volts
- Table rotation slow (when beginning or finishing a wrap cycle): 6.5 to 7 Volts
- Dumping table: 3 to 4 Volts

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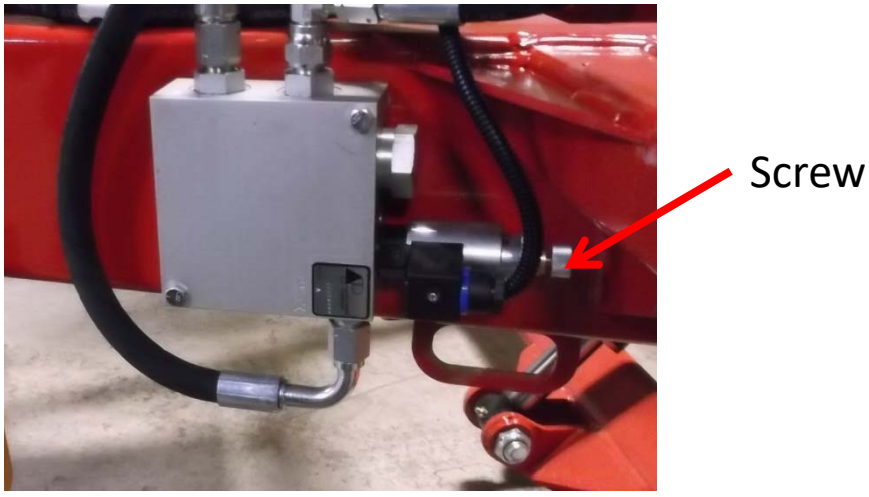
Proportional valve test

Problems with the proportional valve.
There are two problems that lead to the proportional valve:

If experiencing slow functions of the wrapper and you have checked the Honda engine RPM and the pump flow to be ok the problem may be in this valve. Be sure that the screw at the end of the valve is fully screwed out. If this is already the case you may have a problem with the spool of the valve itself.



If you have received Hydraulic Error on the remote control and you have already verified the encoder, the hydraulic fluid level and the battery of the wrapper; also the machine works well manually you may have a problem with this valve. The next section shows you how to check the voltage going to the solenoid of the proportional valve. This will allow you to find the problem in this system. Whether it be with the computer, the electrical connection going to the valve or the valve itself.

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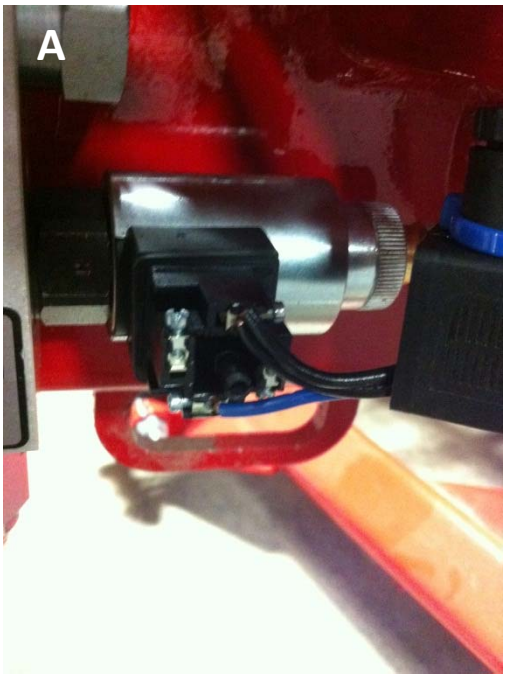
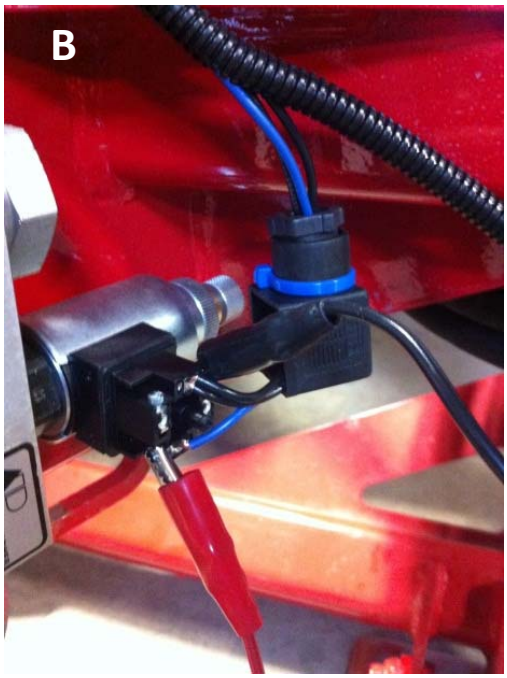
Proportional valve test

To make sure that the voltage sent from the computer is getting to the valve you will have to first remove the black casing around the connector (A) to have access to the blue and black wires. Connect your voltmeter as you see in the image (B).





When your voltmeter is connected you can run the machine in Automatic mode and watch the voltage. If the voltage going to the valve is ok, you may need to check the spool or replace the valve. Be sure that the screw at the end of the spool is unscrewed totally. If there is no Voltage going to the valve you need to check the wire harness going to it and the computer.