



Installation of Valve and Control

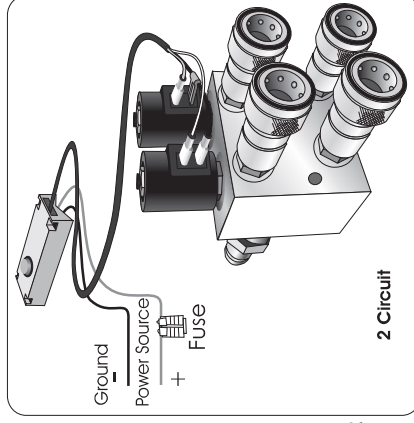
Step 1:

1. Lubricate all threads and O-rings before installing valve body.
2. Install adapter fittings into female quick couplers. Install female quick couplers into the valve body and torque to 20 ft.lbs.
3. Install male tips onto eccentric fittings then install eccentric fitting and male tip as a unit into the valve body with nut towards the valve. (the jam nut is the smaller of the two) Do not tighten jam nut at this time.

Step 2:

Install valve into the tractor's remote outlet by:

1. Adjust the male tips using the eccentric fittings. Insert into the remote outlet.
2. Firmly push valve into place using the SCV release lever where necessary.
3. Tighten the jam nuts to 20 ft.lbs after the valve is seated.



Step 3:

Mount Command Control on the SCV lever that controls the SCV the valve is plugged into then complete the following:

1. Route the grey triplex (the grey triplex carries the white, red, green and black wires.
2. Connect the white wire to the coil of circuit one, the red wire to the coil of circuit two, and the green wire (3 circuit kits) to the coil of circuit three. The terminals in series (black wire) should be connected to the bottom coil spades.
3. Attach the red power wire to a keyed power source that is "hot" only when the engine is running, such as an accessory terminal.
4. Attach the black wire to a clean metallic surface, for a metal to metal ground, such as a clean frame connection.

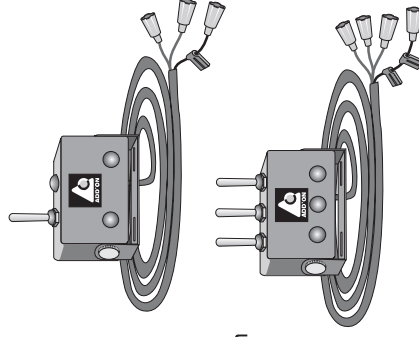
Operation: Switchbox

Wire as stated above.

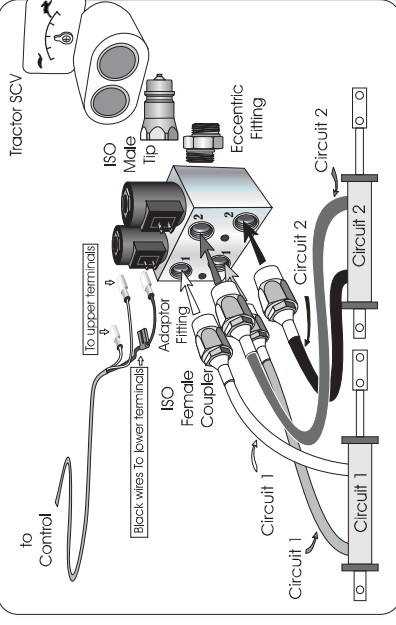
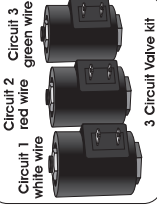
The toggle switch will select either circuit one or two on the two circuit kits, the three circuit kits have a toggle switch to activate each circuit. The tractor remote lever is used to direct the flow of oil.

The push button on the top of the two circuit switchbox "combines" circuits one and two. With the "combine" button activated, both circuits operate simultaneously. In unmatched loads, the lighter load will move first.

Note: The three circuit switchbox does not have the "combine" feature.



Note: There is no right side up to the valve. Solenoid coils will work in any position... up, down, or sideways. Make sure that the top of the solenoids do not contact metal.



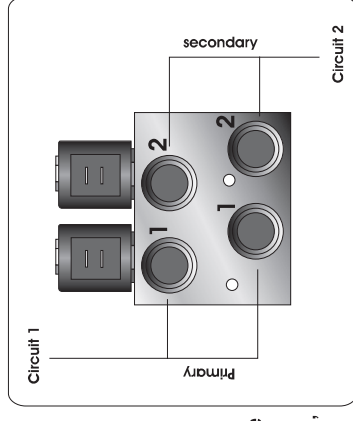
Operation: Command Control

The 2 circuit Command Control switch energizes the primary circuit on the valve as soon as the vehicle's ignition switch is activated by depressing the button on the Command Control. The primary circuit is de-energized and the secondary circuit energized and will remain active as long as the button is depressed. Oil is directed through the energized circuit with the SCV lever.



Do not loosen or remove any fittings or valve cartridge while there is pressure in the system or while the valve is under load.

These valves utilize spool-type cartridge valves for the control of hydraulic oil flow. These cartridges have a minimal amount of internal leakage. Loads held in place for extended periods may eventually settle. When using the valve to control hydraulic motors that experience a continuous amount of flow, the hydraulic oil may become heated. If this becomes a problem, you may elect to run the motor from another remote outlet.



- Over Torquing may cause valve failure
- The valve will not work without a proper ground

WARNING

Troubleshooting

• The valve will not work	• Low or no voltage between the coil terminal and top coil nut. • Not properly grounded	• Use a voltmeter to check between the coil terminal and the outlet. (There should be at least 11 volts). • Check coils for magnification. To check for magnification, place a small metal object on the top of the coil nut. • Check ground connection. Ensure there is metal to metal contact for a secure ground.
• Valve was previously working	• Blown Fuse • Damaged Wiring • Bad Switch	• Check hydraulic connections to see if it was installed correctly. See installation guide for proper instructions. • Inspect tips and couplers for proper mating.
• Only one of the two circuits is working	• Coil may be bad • Cartridge may be contaminated.	• Exchange wires between the working coil and the non-working circuits. If problem persists exchange coils from circuit one to circuit two. • If the problem changes to the opposite circuit, the coil may be bad and need to be replaced. • If the problem remains on the same circuit, exchange the cartridge from circuit one to circuit two. If the problem changes to the opposite circuit, the cartridge may have some contamination. • Visually inspect the cartridge. If no contamination is found the cartridge could be bad and needs to be replaced.



WARNING

Failure, improper selection or improper use of the products and/or systems described herein or related items can cause death, personal injury and property damage. Due the variety of operating conditions and applications for these products or systems, the use, through its own analysis and testing, is solely responsible for making the final selection of the products and systems and assuring that all performance, safety and warning requirements of the application are met.

Limited Warranty

The Add-On Company hereby warrants that it will repair or replace at it's option any part of the unit with which this warranty is enclosed which proves defective by reason of improper workmanship and/or material, without charge for parts or labor, for a period of twelve (12) months. This warranty period commences on the date of original purchase by the Buyer other than for purposes of resale.

To obtain service under this Warranty, you must return your Add-On Company product, properly packaged in it's original container or an equivalent thereof, to The Add-On Company. Permission for any returned parts must be obtained before shipment. All returns must be accompanied by proof of purchase and a written explanation of claimed defects and the circumstances of operated failure. We will replace free of charge all parts shown to be defective by it's inspection, excluding transportation charges and all other costs such as removal and installation expense.

This Warranty applies only if your unit fails to function under normal use within the manufacturer's specifications. This Warranty does apply if, in the sole opinion of the Add-On Company, your unit has been damaged by accident, misuse, neglect, or improper packing, shipping, modifications, or servicing by other than The Add-On Company.

The duration of any implied warranty of merchantability, fitness for particular purpose, or otherwise, on your unit shall be limited to the duration of the express warranty set forth above. In no event shall The Add-On Company or its affiliates be liable for any loss, inconvenience, consequential or otherwise, or whether caused by neglect or other fault resulting from breach of any express or implied warranty of merchantability, fitness for a particular purpose, or otherwise with respect to your unit, except as set forth herein. Some states do not allow for the exclusion of limitation or incidental or consequential damages, so the above limitations and exclusions may not apply to you.

It is the policy of The Add-On Company to improve it's products whenever possible and practical to do so. We reserve the right to make changes, improvements, modifications at any time without incurring the obligation to make such changes, improvements, modifications on any product sold previously. Any product, no matter how well constructed, may fall in service or otherwise become unserviceable due to conditions beyond the control of the manufacturer. This Warranty is not intended as a representation that a failure cannot occur.

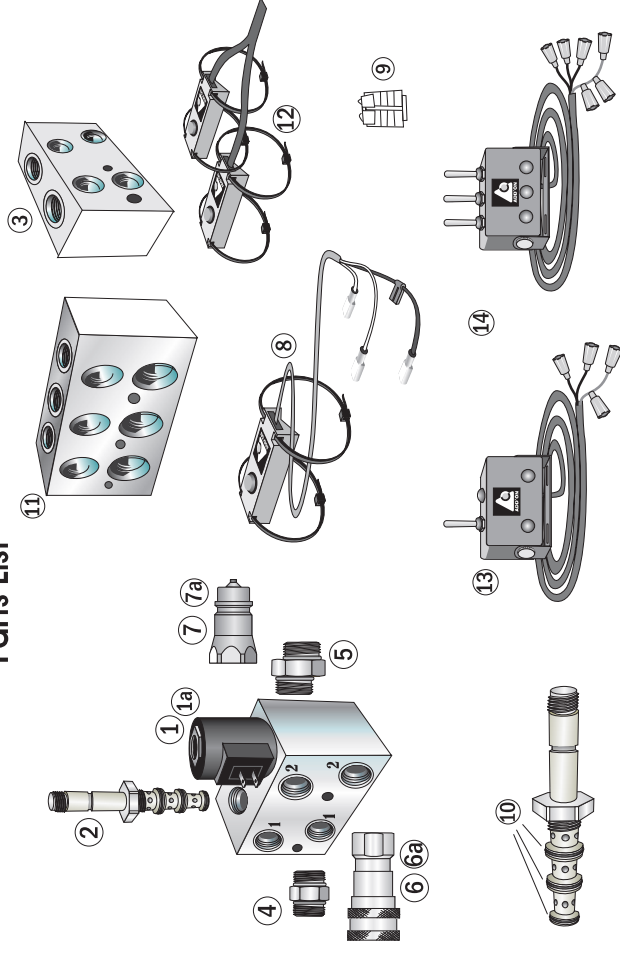
2600 East Highway 30 P.O. Box 2378 Kearney, NE. 68848-2378

Form: 305-024

Marketed Exclusively by Sperry Omega Marketing 800-748-8463

Part Numbers: 12369 12370 14789 14790 14791 16929 18549

Parts List



Ref#	Description	Quantity			Part Number
		2 Circuit	3 Circuit	3 Circuit	
1	Solenoid Coil 12 Volt	2	3		253-012
1a	Solenoid Coil 24 Volt	2	3		253-026
2	Cartridge Valve	2	3		273-004
3	2 Circuit Manifold	1			270-078
4	Adapter Fitting	4	6		210-122
5	Eccentric Fitting	2			210-180
6	ISO Female Coupler	4	6		272-008
6a	Female Coupler JD	4	6		272-011
7	ISO Male Tip	2			272-007
7a	Male Tip JD	2			272-012
8	2 Cir. Command Control	1	2		306-249
9	10 Amp Fuse	1	1		255-053
10	Seal Kit	2	3		274-001
11	3 Circuit Manifold			1	270-078
12	3 Cir. Command Control			1	306-294
13	2 Circuit Switchbox	1			306-250
14	3 Circuit Switchbox			1	306-295