

## TROUBLESHOOTING

Blown fuses, damaged wiring or bad switches are the main causes of valve malfunction, so check these first. If this is a new installation, check the hydraulic connections to make sure that the valve has been installed as shown in the diagram. Also inspect the tips and couplers for proper mating. Incompatible couplers will not permit the ball to seat properly and will prevent good hydraulic connections.

### **ELECTRICAL TROUBLESHOOTING**

A simple test will tell you if the solenoid is working properly. Press the push button switch and touch the large mounting nut on top of the solenoid with the tip of a screwdriver. If the solenoid magnetizes and attracts the screwdriver blade, then the solenoid is ON and working correctly. The valve will also create a faint clicking sound that also confirms the solenoid is working properly. The clicking sound is the cartridge energizing inside the manifold. If the screwdriver does not stick to the solenoid, unplug the grey connector from the solenoid and check the voltage between the grey connector pins (pin 1 & 2). If the voltage is at least 11 volts, the solenoid has power. If the voltage is low, check it at the source where the power wire for the switchbox is connected.

### **HYDRAULIC TROUBLESHOOTING**

If electrical troubleshooting does not resolve the issue, check to see if the supply connections from the tractor remote to the valve are correct. Make sure the cylinders and/or motors are connected to the valve as shown in the diagram. You may need to remove the valve and connect the cylinder or motor directly to the remote outlet to confirm that the supply hoses and tips are working properly. If only one circuit works, swap the hoses between the working and non-working circuit.

## LIMITED WARRANTY

Fasse Valves hereby warrants that it will repair or replace at its 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, provided warranty registration card is returned within fifteen (15) days of purchase. This Warranty period commences on the date of the original purchase by the Buyer, other than purchases for resale, and this Warranty applies only if such original purchase was made in the United States.

To obtain service under this Warranty, you must return your Fasse product, properly packaged in its original container or an equivalent, to Fasse Valves. Permission to return any parts must be obtained before shipment. All returns must be accompanied by a written explanation of claimed defects and the circumstances of the operational failure. We will replace free of charge all parts shown to be defective by our inspection, excluding transportation charges and all other costs, such as removal and installation expenses.

THE DURATION OF ANY IMPLIED WARRANTY IF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR OTHERWISE, ON YOUR UNIT SHALL BE LIMITED TO THE DURATION OF THE EXPRESS WARRANTY SET FORTH ABOVE. IN NO EVENT SHALL FASSE VALVES OR ITS AFFILIATES BE LIABLE FOR ANY LOSS, INCONVENIENCE, OR DAMAGE, WHETHER DIRECT, INCIDENTAL, CONSEQUENTIAL OR OTHERWISE. OR WHETHER CAUSED BY NEGLIGENCE 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.

It is the policy of Fasse Valves to improve its products whenever possible and practical to do so. We reserve the right to make changes, improvements and modifications at any time without incurring the obligation to make changes, improvements, and modifications on any equipment or product sold previously. Any product no matter how well constructed may fail 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. You may request further information and assistance by contacting Fasse Valves at the address listed on this installation guide.

### **Fasse Valves**

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## **Installation Guide**

THANK YOU for purchasing this FASSE VALVE. To register and receive the warranty on your valve, please take a few moments to complete and return the enclosed warranty registration card. Please mail it within 15 days from date of purchase.

If you have a technical problem, question about operation, or need information about our other products, contact your local dealer or call us at: 1-800-345-7745

The Fasse product line includes hydraulic valves, controls, and accessories for nearly all makes and sizes of tractors. Please check out our many fine products, quality engineered to fit your needs.

## **INSTALLATION WARNINGS & CAUTIONS**

1. Read the installation guide.
2. Turn off the tractor or equipment.
3. Relieve all pressure from the hydraulics.
4. Have the tractor or equipment on level ground.
5. Wear proper eye protection.

## **HYDRAULIC VALVE INSTALLATION**

You can mount it on your equipment using the two holes drilled in the manifold, and connect it to the remote outlet with two hydraulic hoses. Use the two integral mounting holes to attach valve body to existing framework. All ports in the valve are -10 SAE O-ring. Do not use Teflon tape, pipe dope, etc on threads in this body. The valve can be mounted with solenoid up, down, or horizontal.

## **MAINTENANCE**

Periodic maintenance will increase the life and trouble-free operation of your valve. Regularly inspect exposed electrical connections for corrosion or other damage. Inspect the cable from switchbox to valve and make sure it has not shifted to a place where it could be kinked or worn by contact with moving parts of the tractor or attached equipment. If the cable is in such a place, move it to a safer spot and secure it. Replace any damaged or worn parts.

Inspect all hydraulic hoses connected to the valve. Wipe the body of the valve clean and check for leaks, tighten or replace any fitting you suspect of leaking, and inspect the hydraulic hoses for any signs of leaking, cracking or bulging. Replace hoses that show any of these signs of possible failure.

Dust Plugs and Dust Caps will keep dirt and other contaminants out of your valve and are a very inexpensive addition. Available in six colors, these caps and plugs have their own built-in loop to attach to the valve so they will always be there when you need them to protect your couplers.

## ELECTRICAL INSTALLATION

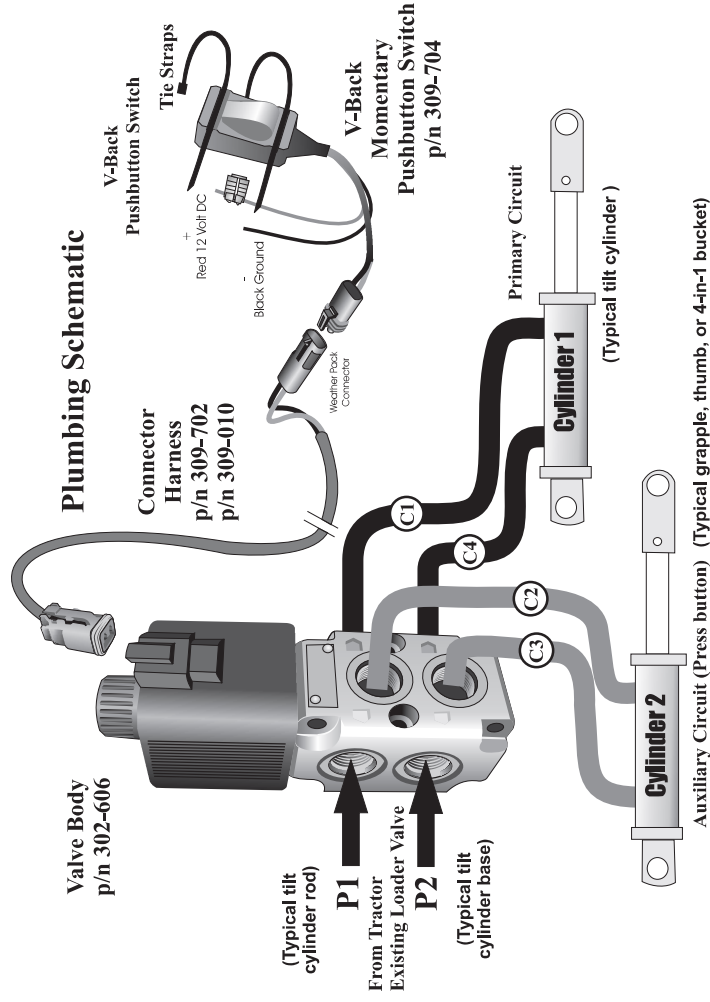
The V-Back Pushbutton switch is mounted to an existing control handle such as the SCV lever. Mount the switch to the handle with the tie straps so that the button can be easily pressed while operating the lever. Route wiring from the switch to the valve and secure it with the cable ties provided.

**CAUTION:** The valve should be mounted and connected to the wire harness before the control switch is connected to a power source. This will prevent accidental shorting of the control wires to ground. Power should be taken from a location at the fuse panel or key switch that is only “hot” when the engine is running. This is to prevent the battery from being drained when tractor is not in use. The power connection (red wire) **MUST BE FUSED** (provided in kit) to protect the wiring in case of a short. Locate the fuse as close to the source of power as possible. Connect the black wire to the chassis for ground.

### TYPICAL HYDRAULIC ROUTING (for loaders)

Disconnect the bucket cylinder hoses from the loader control valve at the hydraulic steel lines. Install the fittings on the diverter valve. Install the disconnected hydraulic cylinder hose to P2 (tilt cylinder base) and the P1 (tilt cylinder rod) ports on the diverter valve. Install hydraulic hoses (dealer supplied) from the C4 port (tilt cylinder base) and the C1 port (tilt cylinder rod) to the corresponding loader steel lines. The hydraulic hoses from the 4 in 1 bucket or grapple assembly should be connected to the C3 and C2 ports on the diverter valve. The illustration top right can be used for quick reference as well.

Safety check all connections before reconnecting the negative cable to the battery.



## OPERATION

In the neutral state, the flow path to the primary circuit (C1, C4) is open. By pressing the V-Back pushbutton the operator de-energizes the primary circuit and energizes the auxiliary circuit (C2, C3) for as long as the button is pressed. By energizing either circuit the operator can direct hydraulic oil down that circuit with the existing control valve. This valve selects the circuit, the existing lever extends and retracts the cylinder.

This valve uses spool-type cartridge valves for controlling the flow of oil. These cartridges have a small amount of internal leakage. Loads held in place for extended periods of time may eventually settle.

**CAUTION:** Do not loosen or remove any fittings or the valve cartridge while there is pressure in the system or a load is being held up by the valve.