

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. Turn the toggle switch ON 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 solenoid 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. If this does not isolate the problem, swap the solenoids, or the valve cartridges.

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.

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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

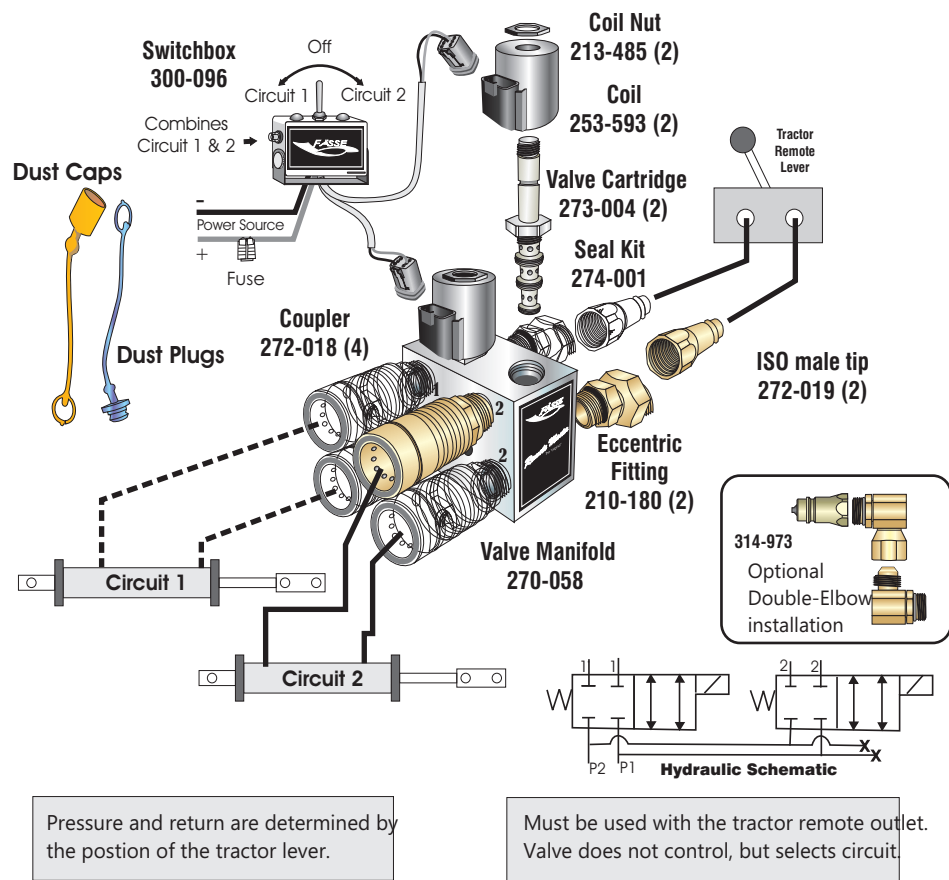
Your new Fasse valve is designed to connect directly to the remote outlet on your tractor using the fitting and coupler kit provided. Or, you can mount it on your equipment using the two holes drilled in the manifold, and connect it to the remote outlet with two hydraulic hoses.

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.



5. Install the dust plugs and caps onto the two male tips and four female couplers. They connect together when the valve is in use to protect the plugs and caps from filling up.
6. The valve can now be plugged in the tractor remote outlet. To connect the valve, push the male tips into the tractor remote outlet firmly so the male tips connect and lock with the tractor remote lever.

INSTALL THE VALVE ON THE EQUIPMENT

1. To mount the valve directly on the equipment or another location on the tractor, use the mounting holes on the manifold. The valve can be mounted in virtually any position, for greater versatility. Make sure the valve is mounted away from moving linkages and is not mounted on a frame member that moves.
2. The manifold ports labeled P1 and P2 connect to the tractor remote outlet and the four ports labeled 1 and 2 connect to the cylinder or motor circuits.

SWITCHBOX INSTALLATION

The switchbox and valve solenoids are designed to operate only on a 12-volt system, positive ground, unless otherwise specified. Connections to any other type of electrical system will likely result in immediate damage to the switchbox and solenoids. 24-volt solenoids and switchboxes are available through your dealership.

1. Mount the switchbox within easy reach of other controls/levers.
2. Route the valve cable from the switchbox to the valve and secure with the provided cable ties.
3. Plug in the grey electrical connectors into the silver valve solenoids. The grey connector with the black and green wires connects to the solenoid above the ports labeled 1. The grey connector with the white and red wires connects to the solenoid above the ports labeled 2. When the remote lever is pressed to the left, circuit 1 is ON, and when pressed to the right, circuit 2 is ON. In the center position, neither circuit is selected.
4. Route the red/black wire from the switchbox to a fuse panel or ignition key switch power source. The red power wire should be connected to the fuse panel or the key switch so that it is protected when the engine is running. This prevents battery drain when the tractor is OFF. Install the fuse on the power wire to protect the wiring in case of an electrical failure. Install the fuse as close to the power source as possible.

5. The switchbox is now ready for operation.

OPERATION

FASSE valve operation is simple. The switchbox contains two toggle switches. The larger switch on top selects circuit 1 or circuit 2. Once the circuit is selected, the tractor remote lever directs the flow of oil. The smaller toggle switch on the side of the switchbox allows you to "combine" circuits 1 and 2, so you can operate both circuits simultaneously. Where there are unequal loads, the heavier load will move first. The FASSE valve is designed to be run continuously or intermittently.

To simply operate circuit 1 or to the right to operate circuit 2, simply press the toggle switch to the left to operate circuit 1 or to the right to operate circuit 2. To operate the tractor remote lever to control the direction of the oil to the cylinder or motor, simply return the tractor remote lever to neutral and return the toggle switch to the middle position.

INSTALL VALVE DIRECTLY TO TRACTOR REMOTE or MOUNT ON EQUIPMENT

All valve ports are SAE 3/4"-16 straight thread. Do not use Teflon tape, pipe dope, etc., on threads. Lubricate the threads and O-rings with hydraulic oil before installing into the valve manifold. Torque all fittings/couplers to 35 ft-lbs.

1. To mount the valve directly to the tractor remote, install the two eccentric fittings into the ports labeled P1 and P2 on the manifold. Install the fittings so the free turning lock nuts are towards the tractor remote. Hand-tighten the fittings only. Make sure both fittings are installed to the same depth into the manifold. Otherwise when the male tips are attached, they will not be the same length, making proper connection to the tractor outlet impossible.
2. Install the male tips onto the eccentric fittings. Tighten and torque them to 35 ft-lbs.
3. Hold the valve with the male tips up to the tractor remote outlet to determine the proper spacing to connect the male tips to the tractor outlet. Rotate the eccentric fittings to achieve proper spacing and then tighten the lock nuts on the fittings. The valve can be mounted in virtually any position, for greater versatility. Do not turn the fittings more than one complete counter-clockwise rotation while aligning the male tips to the tractor outlet.
4. Install the four female couplers into the ports labeled 1 and 2 on the manifold. Tighten and torque them to 35 ft-lbs.