

Fig. 15 - Hydraulically Extending A Single-Acting Cylinder  
1. Piston End Port 2. Breather

hydraulic control valve. Attach the remaining end of the hose to the port in the "piston" end of the cylinder, if it is to be "extended" by hydraulic pressure, see Fig. 15. If the cylinder is to be "retracted" by hydraulic pressure, attach the hose to the port in the "rod" end of the cylinder. If this is done, the "breather" must be removed from the port in the "rod" end and installed in the port in the "piston" end of the cylinder, see Fig. 16. If the double hose and coupler kit is not used, the "drop" or forward port of the control valve will not be used and must be plugged to prevent oil from discharging when the control lever is moved to the drop position, and prevent the entrance of foreign material. Before attempting to operate a single-acting cylinder, the switch valve, No. 1, Fig. 14, located directly below the valve spool, will have to be screwed "out" to provide proper fluid flow through the valve.

## OPERATION

### OPERATING DOUBLE-ACTING CYLINDERS

To produce an oil flow through the auxiliary valve to operate one double-acting cylinder,

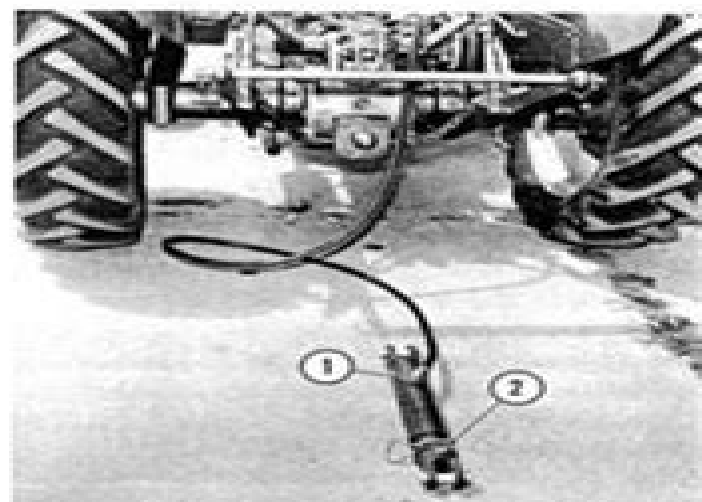


Fig. 16 - Hydraulically Retracting A Single-Acting Cylinder  
1. Rod End Port 2. Breather

pull rearward on the valve spool control lever, if the cylinder is to be "extended" for lift by hydraulic pressure. If the cylinder is to be "retracted" for drop by hydraulic pressure, push forward on the valve spool control lever.

### OPERATING SINGLE-ACTING CYLINDERS

To operate one single-acting cylinder, pull rearward for lift on the valve spool control lever to produce an oil flow to activate the single-acting cylinder. Push forward for drop on the valve spool control lever to return the oil from the single-acting cylinder to the reservoir.

### VALVE SPOOL CONTROL LEVER

#### DETENT POSITIONS

Adjustable, spring-loaded detents hold the valve spool in either lift or drop positions against the force of the centering spring. When extending or retracting a hydraulic cylinder to its maximum stroke, the valve spool control lever may be retained in its rearward or forward detent position, allowing the hydraulic cylinder to extend or retract to its maximum stroke. After the cylinder has reached its maximum stroke, the internal kick-out cartridge will automatically return the valve spool

# Mf165 Hydraulic System Repair Manual

**JL Elias**



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