

## TROUBLE SHOOTING

TROUBLE	POSSIBLE CAUSE	TROUBLE	POSSIBLE CAUSE
Implement Will Not Lift	<ol style="list-style-type: none"> <li>1. PTO Shaft not in Gear</li> <li>2. Badly Scored or Binding Ram Cylinder</li> <li>3. Binding Control Valve</li> <li>4. Binding Pump Side Plate Valves</li> <li>5. Broken Control Valve Stem</li> <li>6. Blown Old Type Flat Gasket</li> <li>7. Relief Valve Spring Very Weak</li> <li>8. Broken Ram Cylinder</li> <li>9. Split or Leaky Riser Tube</li> <li>10. Congealed Oil due to Extreme Cold</li> <li>11. Control Valve Unhooked from Vertical Fork</li> <li>12. Loose Cap Screws on Valve Chamber</li> </ol>	Pump Noisy or Knocking	<ol style="list-style-type: none"> <li>1. Foaming Oil</li> <li>2. Worn or Broken Pump Cams</li> <li>3. Improper PTO Shifter Housing to Pump Side Plate Clearance</li> <li>4. Improperly Aligned Pump</li> <li>5. Starved Pump due to Improper Quadrant Setting</li> </ol>
Implement Will Not Lower	<ol style="list-style-type: none"> <li>1. Seized Ram due to a Scored or Binding Cylinder</li> <li>2. Binding Control Valve</li> <li>3. Cap Screws on Lift Arms too Tight</li> </ol>	Implement Jerks When in Raised Position	<ol style="list-style-type: none"> <li>1. Check Chain Anchors Installed Upside Down</li> <li>2. Twisted Check Chain</li> <li>3. Reversed Lower Links</li> <li>4. Improperly Seated Safety Valve</li> <li>5. Weak Fork Retractor Spring</li> <li>6. Leaking Riser Tube</li> </ol>
Slow or Erratic Action	<ol style="list-style-type: none"> <li>1. Badly Scored or Binding Ram Cylinder</li> <li>2. Binding Control Valve</li> <li>3. Broken Control Valve</li> <li>4. Weak Retraction Spring</li> <li>5. Leaking Gaskets</li> <li>6. Side Chamber Valves Binding on Guide Rod</li> <li>7. Loose or Split Riser Tube</li> <li>8. Scored Pump Pistons</li> <li>9. Oil Contains Dirt or Abrasive Substance</li> <li>10. Valves Assembled Upside Down in Pump Chambers</li> <li>11. Binding Control Valve Oscillator Drive</li> </ol>	Implement Fails to Lift at Idle Speed	<ol style="list-style-type: none"> <li>1. Loss of Oil Pressure Between Pump and Ram Cylinder</li> <li>2. Relief Valve Spring</li> </ol>
Implement Lifts But Falls When Pump is Stopped		Implement Lifts But Falls When Pump is Stopped	<ol style="list-style-type: none"> <li>1. Improperly Seated Relief Valve</li> <li>2. Scored Ram Cylinder</li> <li>3. Faulty or Worn Ram Piston Rings</li> <li>4. Loss of Oil Pressure Between Pump and Ram Cylinder</li> <li>5. Sticking Control Valve</li> </ol>
Implement Will Not Maintain Desired Working Depth		Implement Will Not Maintain Desired Working Depth	<ol style="list-style-type: none"> <li>1. Implement Out of Adjustment</li> <li>2. Dull Tools</li> <li>3. Quadrant Maladjusted</li> </ol>

## FERGUSON SYSTEM

### TROUBLE

### POSSIBLE CAUSE

4. Implement Has too Much Suck
5. Soil Texture Varies
6. Binding Automatic Control Linkage
7. Sticking Control Valve
8. Top Link Improperly Adjusted

PTO Shift Lever  
Binds or Sticks.

1. Drive Shaft to PTO Retainer Assembly (TO-708)

### TROUBLE

### POSSIBLE CAUSE

- Clearance Incorrect
2. Drive Shaft-PTO Shifter Rail (TO-719) Clearance Incorrect. Flashings on the Drive Shaft not Ground to Give Proper Clearance

Pump Does Not  
Function After  
Assembly in  
Tractor

1. Air Lock in Pump in Side Chambers