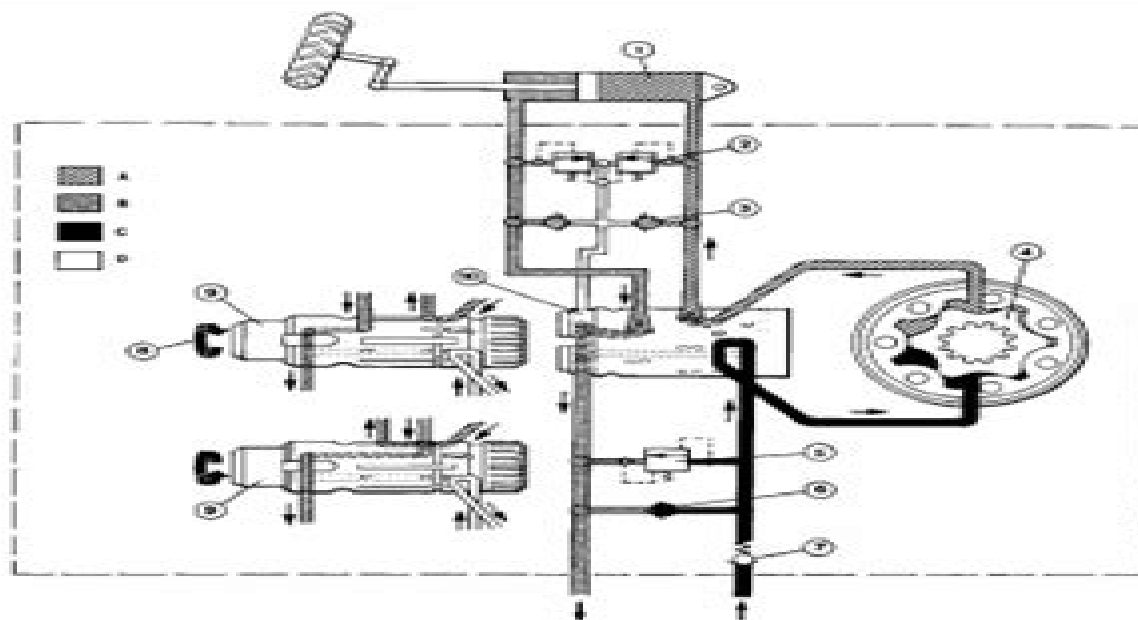


# Hydraulic Steering



TL 672

Fig.2 Hydrostatic steering unit circuit – Wheel turning with engine running

## Key to Fig.2

1. Steering cylinder
2. Shock valves
3. Suction valves
4. Metering valve
5. Relief valve
6. Non return valve
7. Check valve
8. Steering wheel connection
9. Spool valve
10. Sleeve valve
- A. Suction line
- B. Steering line
- C. Return oil
- D. Return oil

## Wheel Turning with Engine Running. Fig.2

First movement of the steering wheel moves the spool against the leaf springs. This opens the closed centre pressure port and aligns slots in the spool with holes in the sleeve, allowing oil to pass to the metering valve. Further movement of the steering wheel continues to turn the metering valve, sleeve and wheel. Simultaneously the metering valve meters the oil flow and directs it back into the sleeve and spool. The oil re-entering is then directed by slots in the spool which align with holes in the sleeve, to direct oil to the head side or road side of the steering cylinder (the direction is controlled by the steering wheel movement). The oil returning from the steering cylinder is directed, by the slots in the spool valve aligning with holes in the sleeve into the return line.

In the line between the inlet and the spool valve situated internally in the steering unit, is a relief valve. Its function is to protect the pump from excessive pressures. For example, when on full lock, or when the road wheels are against an obstruction.

A check valve is fitted in the steering unit in the path of the oil entering from the pump. This is a one way valve preventing induced peak pressure generated from the road wheels returning to the main pump when steering.

# Massey 4345 Service Manual

**Chris Jaworski**



## **Massey 4345 Service Manual:**

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