

## STEERING CONTROL VALVES

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## General

Several models of steering control valves are used in these tractors depending on the following:

1. The larger the size of tractor the greater the pump displacement in the steering control valve.
2. All other tractors have two steering control in the steering control valve.
3. Tractors for European markets require steering control valves with internal check for relief valves.

There is an inlet check valve (21b) in the control valve which prevents reverse oil flow. A relief port (21c or 21d) on the control valve directs the steering signal pressure through the signal check to the power pump compensation port.

## Description

The steering control valve is of the hydrostatic steering type. The unit consists of an integral relay control section and single or double metering pump section. The control section directs the signals through the metering section and out to the filter or LPS cylinder port. The control section also directs the return oil back the steering control valve to the charge/discharge circuit. The metering section meters a fixed amount of oil to the steering cylinder. Depending on the rotation of the steering wheel and the amount of resistance in turning the wheel.

If the oil flow from the power pump fails, the steering control valve acts automatically as a pump and manual steering (emergency steering) of the tractor is maintained. In steering control valves with a double metering pump section, only one section is used for manual steering to reduce operator effort.

The steering control valve is a load sensing design which works with a Pressure Flow Compensating (PFC) pump and a priority valve. The PFC pump has a compensator that causes the pump output to meet a specified pressure differential across the power pump outlet and any signal port. An increased demand from the pump causes a temporary drop in the pressure differential, causing the compensator to increase pump output necessary to regain the pressure differential. A reduction in the system demand flow causes a temporary increase of the differential pressure which causes the compensator to decrease the pump and to maintain the correct differential pressure.

## Key to Diagram

- (21) Relief/pressure setting
- (21a) Metering
- (21b) Emergency steering check valve
- (21c) Return
- (21d) Relief
- (21e) Inlet port check valve
- (21f) Drive shaft
- (21g) Metering pump stop
- (21h) Metering section

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## STEERING CONTROL VALVE

DIAGRAM 1

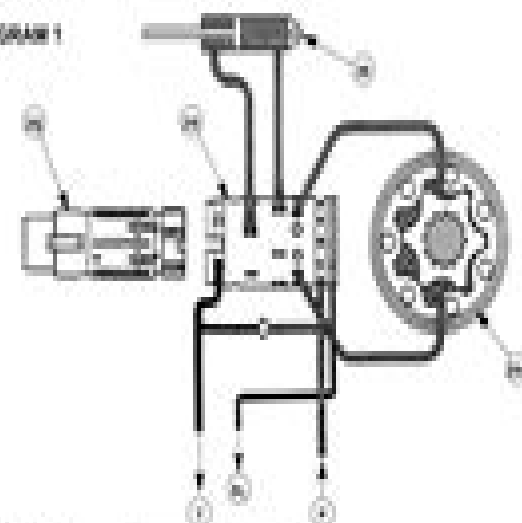
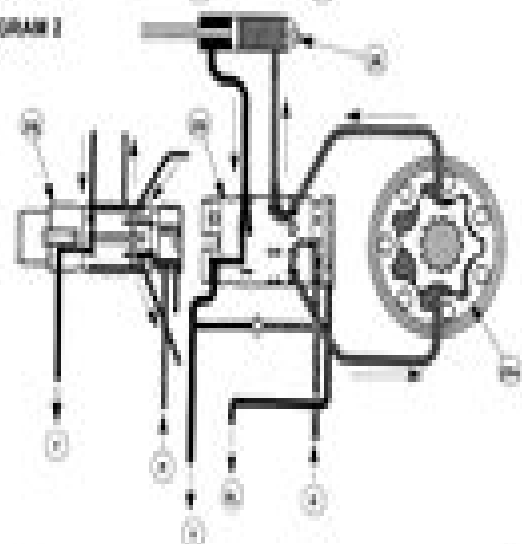


DIAGRAM 2



# **Mx100c Service Manual Case**

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