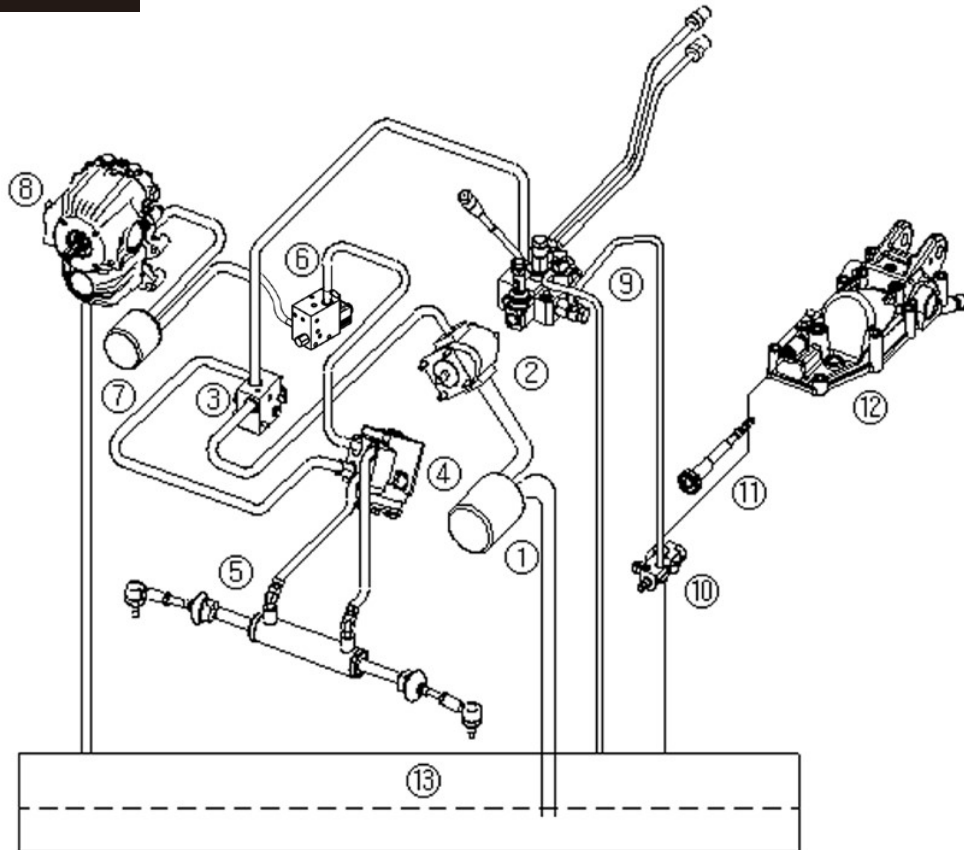


1.2 STRUCTURE AND OPERATING PRINCIPLE

1.2.1 CONSTRUCTION OF HYDRAULIC SYSTEM

The hydraulic system on the **J/XJ MODEL** tractors (HST type) is an open center type with a transmission mounted gear type hydraulic pump. The hydraulic system shares a common transmission case reservoir and suction filter. Oil flows from the hydraulic pump to the priority valve.

HST TYPE: 1 PUMP



J200W601A

- | | | |
|-----------------------|----------------------------|-------------------------------|
| (1) Hydraulic filter | (6) Independent PTO valve | (11) Down speed control valve |
| (2) Pump | (7) HST filter | (12) Lift cylinder |
| (3) Priority valve | (8) HST unit | (13) Oil tank |
| (4) Steering unit | (9) Remote hydraulic valve | |
| (5) Steering cylinder | (10) Up/Down valve | |

The priority valve directs the first 10 lpm (2.64 gpm) of oil flow to the steering valve. Return oil from the steering valve is sent to the independent PTO valve. From the PTO valve oil is routed through the HST filter and sent to the HST unit. The priority valve directs the remainder of the oil flow to the tractor hydraulic system. First to the optional rear remote valve then to the HPL valve or it returns to the reservoir.

CONSTRUCTION OF THE HYDRAULIC SYSTEM

- Oil is commonly using with transmission oil for hydraulic system.
- One pump is working for all hydraulic operation via filter.
- Smooth turn can be achieved if you raise hitch at the same time when tractor is working on the wet field.
- Maximum flow can be discovered at the remote hydraulic because high pressure comes from priority valve.
- 3 point hitch can not move when you are using remote hydraulic. In order to use 3 point hitch, you have to stop remote hydraulic operation.
- For safety reason, we recommend you use remote hydraulic without any implement when valve is in dentent