FARMALL® 30B
FARMALL® 35B

Tractor

SERVICE MANUAL

Part number 84542385

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CASE IH AGRICULTURE

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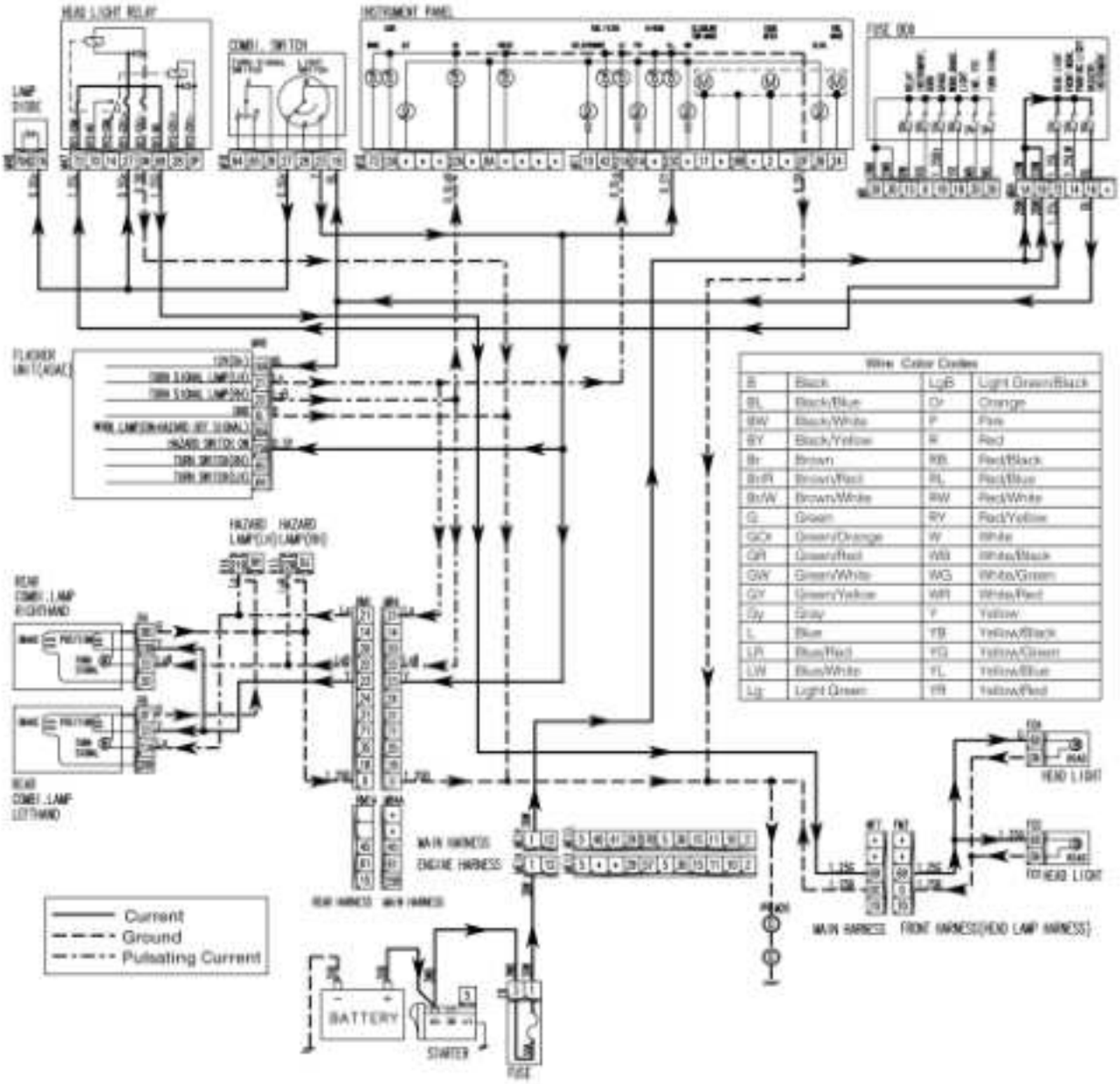
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ELECTRICAL POWER SYSTEM - Electrical schematic frame 11 - Road lights



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LUBRICATION SYSTEM - Troubleshooting

Problem	Possible Cause	Correction
Inoperative low oil pressure indicator light	Blown #2, 10-amp fuse	Check fuse and replace if necessary
	Improper ground circuit	Check oil pressure indicator light circuit connections and circuit grounds and repair as necessary.
	Malfunctioning oil pressure switch	Test oil pressure switch and replace as necessary .
Low oil pressure indicator will not shut off	Engine oil pressure below **41.4 kPa (6.0 psi)**.	Shut off engine, investigate cause of low oil pressure
	Malfunctioning oil pressure switch	Test oil pressure switch and replace as necessary .
	Short circuit to ground between oil pressure switch and instrument panel.	Check wiring harness for damage, repair as necessary.

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Pump - General specification Model number - HVFD23F-R35-P

Pump - Variable displacement

Pump displacement - **0-23.4 cm³/rev**

Motor displacement - **23.4 cm³/rev**

Pump high pressure relief valve - **34323 kPa** (**4978 psi**)

Output speed - **2510 RPM** @ **14700 kPa** (**2132 psi**)

Output torque - **84 N·m** (**62 lb ft**) @ **30992 kPa** (**4495 psi**)

Charge pump relief valve - **490 kPa** (**71 psi**) @ **2800 RPM**

Pump swash plate angle - Zero plus or minus - **18 °**

Motor swash plate angle - **18 °**

Weight - **20 kg**

Maximum rated input speed - **2900 RPM**

Maximum output speed (Theoretical) - **0 - 2900 RPM** (**0 - 2900 RPM**)

HST case pressure - < **98 kPa** (**14 psi**)

Bolt torques

Hydrostatic transmission cover screws
2 - 2.5 N·m (**1 - 2 lb ft**)

Hydrostatic port block retaining bolts
31 - 38 N·m (**23 - 28 lb ft**)

Hydrostatic transmission buckle up bolts, two bolts .
10x50 mm torque **49 - 53 N·m** (**36 - 39 lb ft**)
and two bolts
10x70 mm torque **49 - 53 N·m** (**36 - 39 lb ft**)

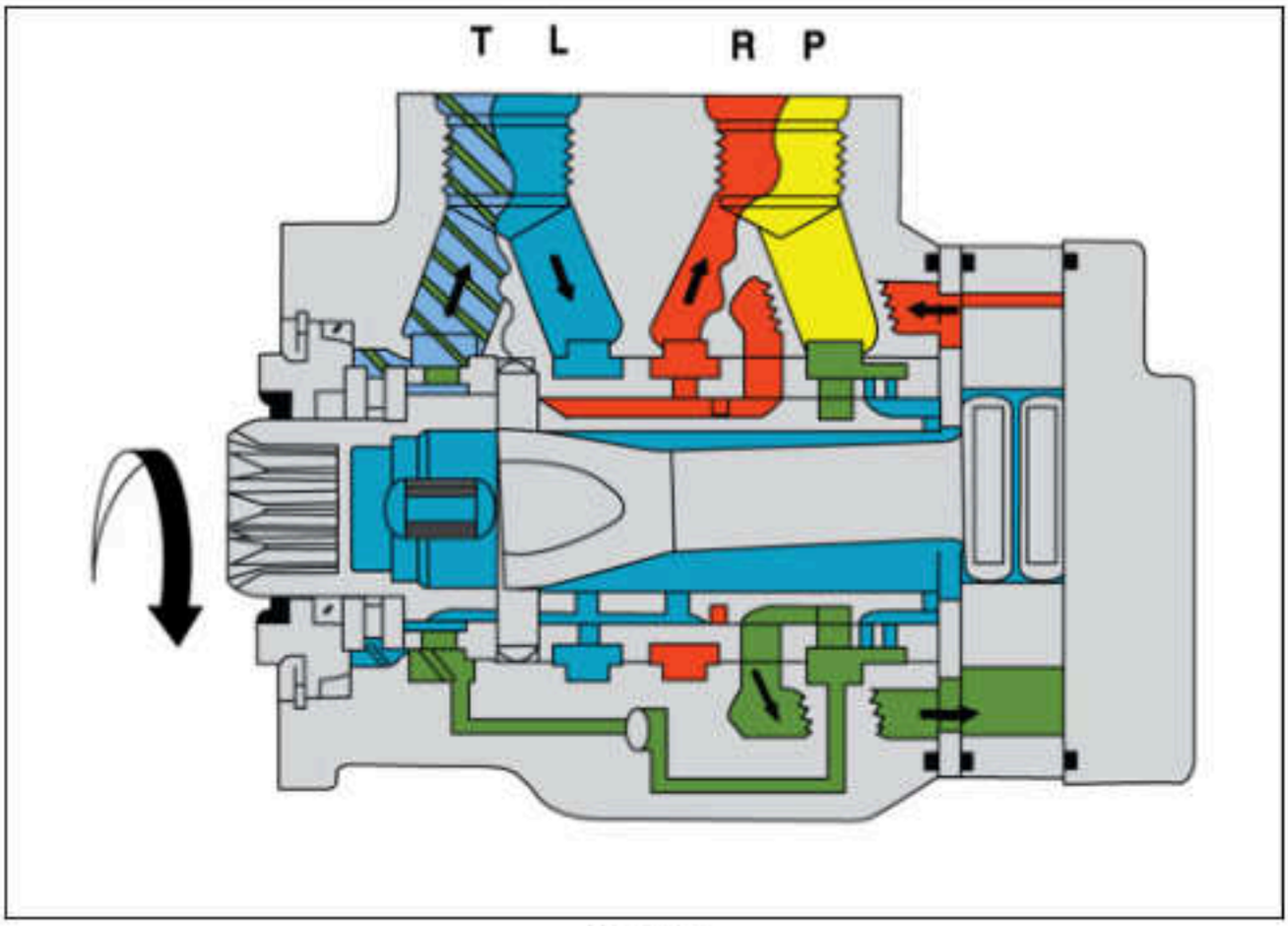
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Emergency operation

⚠ WARNING

Loss of control hazard!
Because of the slow responsiveness of the steering in this condition, you should not travel at high speeds or on downhill roads.
Failure to comply could result in death or serious injury.

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Emergency mode steering manually

(T) - Tank
(L) - Left steer port
(R) - Right steer port
(P) - Pump discharge

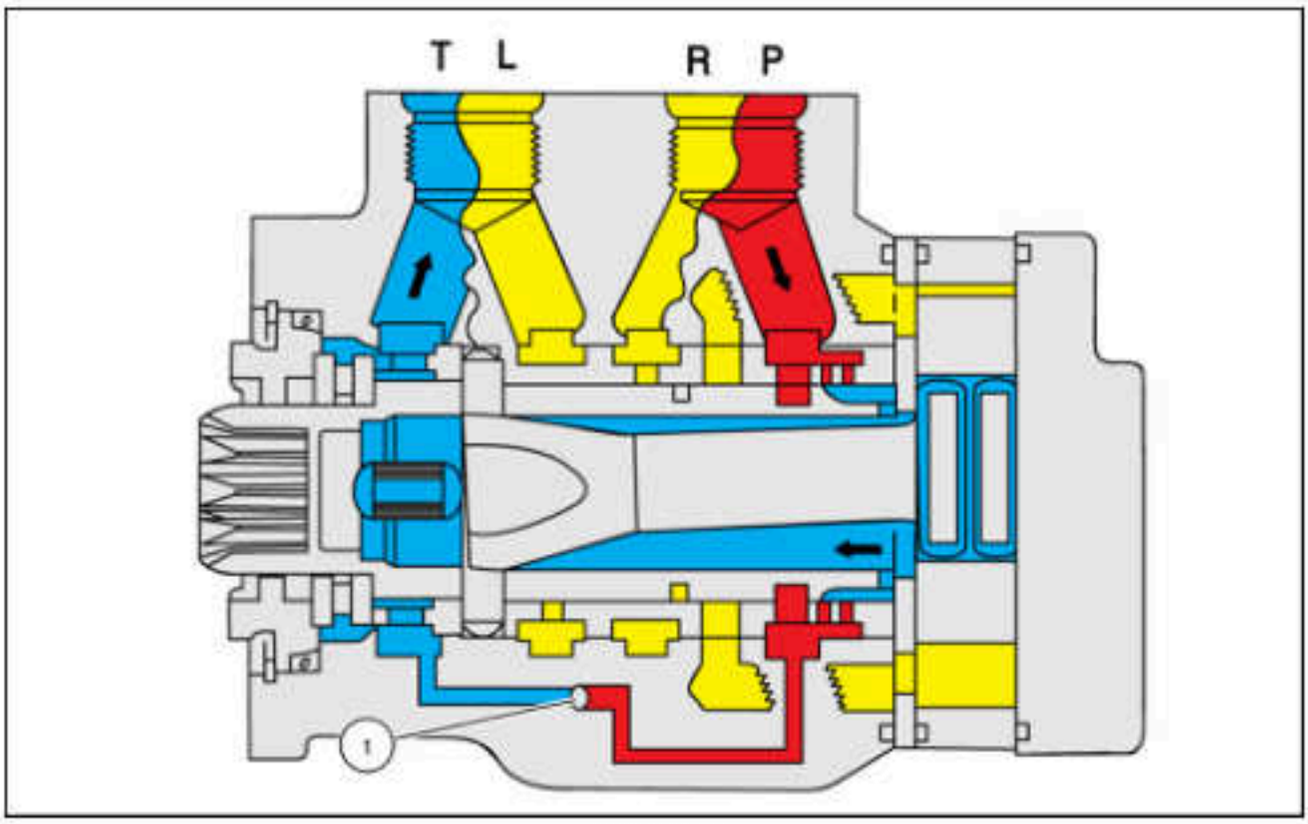
- Pressurized oil from pump
- Oil from rotor
- Discharge
- Suction
- Suction or discharge
- Neutral

NOTICE: *In the EMERGENCY manual steering mode, if steering becomes difficult to do, STOP and transport the tractor by trailer.*

If hydraulic pressure is not generated by the hydraulic pump, the "Rocker" inside the valve serves as a hand pump, and allows the steering cylinder to operate.
The oil returning to the port **(T)** is sent to the rotor **(1)** through the check valve and the rotor sends oil to the cylinder. At this time, the oil in the opposite side returns to the port **(T)** again and repeats the procedure previously described.

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Neutral position



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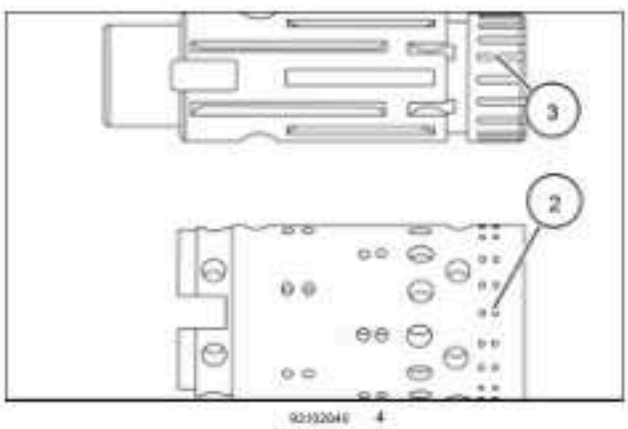
Neutral position

(T) - Tank
(L) - Left steer port
(R) - Right steer port
(P) - Pump discharge

Pressurized oil from pump
Oil from rotor
Discharge
Suction
Suction or discharge
Neutral

Pressurized oil from the pump flows to the port **(P)**, seating the check valve **(1)**, preventing oil from flowing to the port **(T)**.

The port **(2)** coincides with the groove **(3)** and oil flows out to the port **(T)** through the center of rotation valve.



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