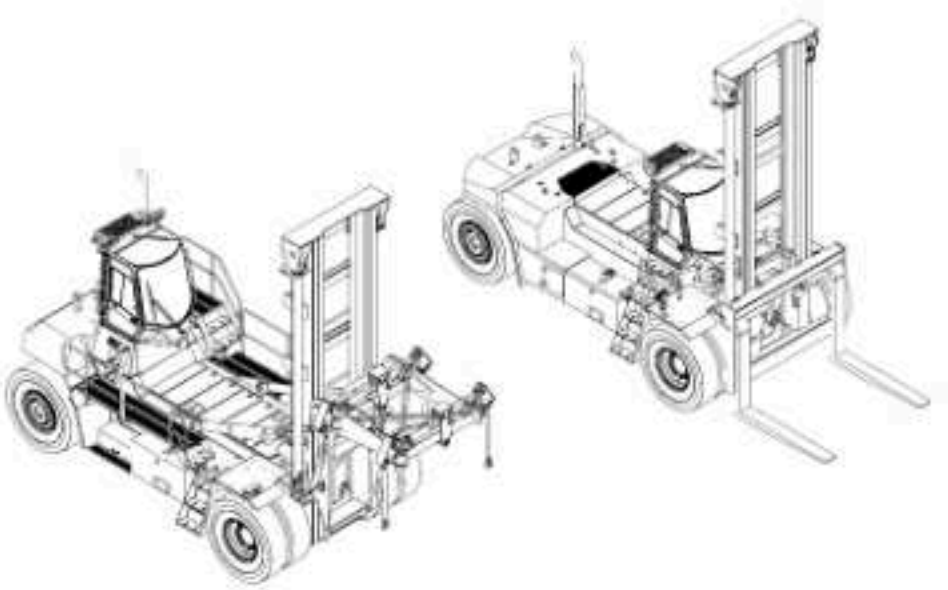
SERVICE MANUAL

G117 (H1050HD-16CH, H1150HD-16CH)



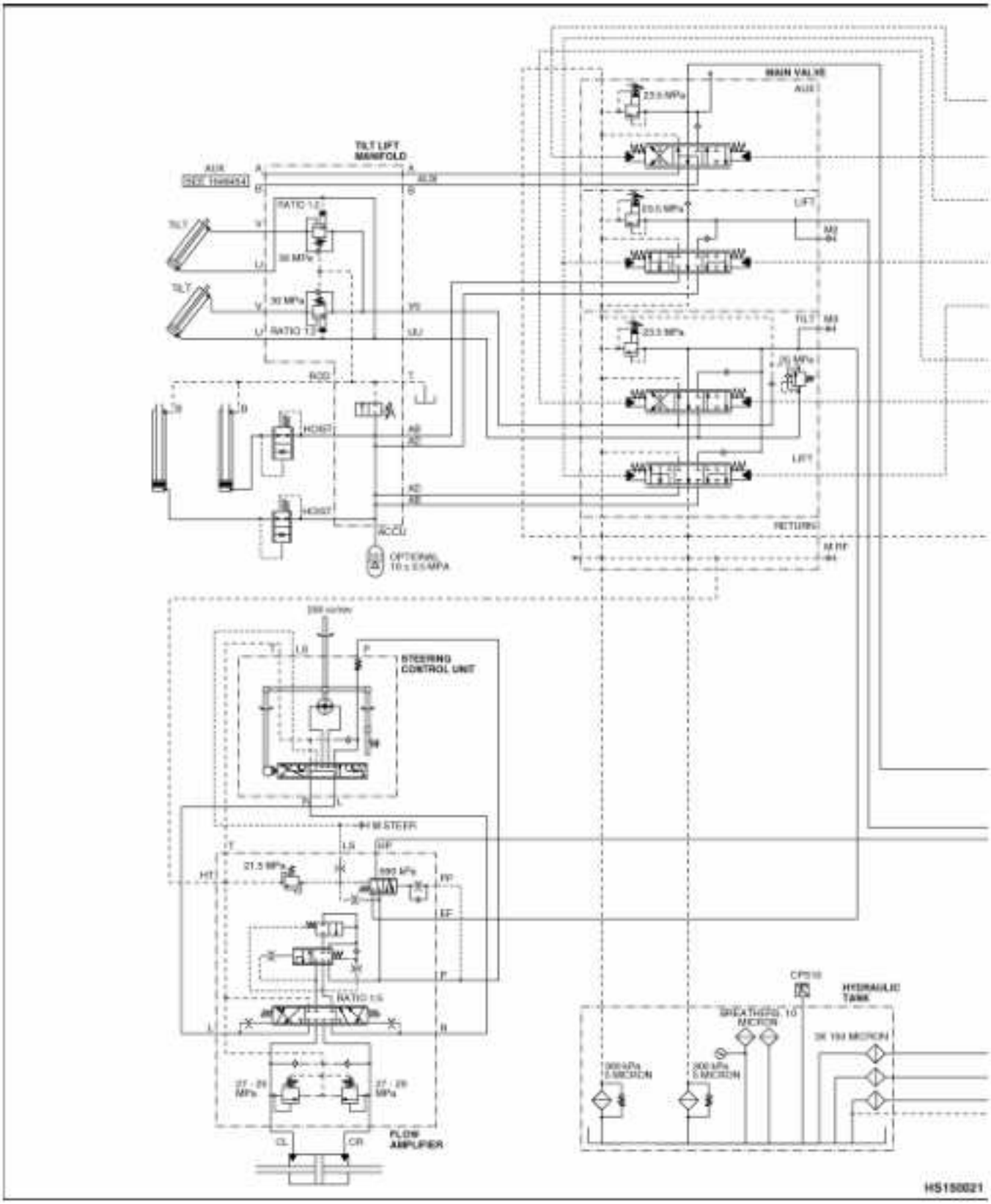
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Troubleshooting

PROBLEM	POSSIBLE CAUSE	PROCEDURE OR ACTION
No movement of the lift cylinders.	Lift control linkage is disconnected.	Connect lift control linkage.
	No oil or not enough oil to the lift cylinders.	Fill tank. Check for leaks.
	Relief valve is set too low or a check valve is bad.	Adjust or install new relief valve or check valve.
	Pilot line is damaged.	Replace pilot line.
	Pilot pressure is not correct.	Adjust pilot pressure.
	Spool in main control valve does not operate correctly.	Repair or replace spool in main control valve.
Slow action of the lift cylinders.	No oil or not enough oil to the lift cylinders.	Fill tank. Check for leaks.
	Lift cylinder seals are damaged.	Replace lift cylinder seals.
	Lift cylinders have internal or external leaks.	Repair leaks. Install new parts.
	The relief pressure at the main control valve is not correct.	Adjust relief pressure.
Rough movement of the mast assembly.	Lift cylinders have internal or external leaks.	Repair leaks.
	Relief pressure at main control valve is not correct.	Adjust relief pressure.
	Air in the hydraulic system.	Bleed system. Check for loose connections or break in lines.
	Damaged cylinder rod(s), bent lift cylinders.	Replace damaged rod(s) or cylinders.
	Mast assembly is damaged or not in alignment.	Repair or align mast assembly.

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2. Raise the carriage and load 1 m (3 ft). If the carriage slowly lowers when the control valve is in the NEUTRAL position, there are leaks inside the hydraulic system. The maximum speed that the carriage is allowed to lower is 50 mm (2 in.) per 10 minutes when the hydraulic oil is 30°C (90°F). If the oil temperature is 70°C (160°F), the maximum speed that the carriage can lower is 150 mm (6 in.) per 10 minutes.

3. Check the lift cylinder for internal leaks. Remove the load from the forks. Install a gate valve in the supply line between the main control valve and the mast. Put a capacity load on the forks again. Raise the carriage 1 m (3 ft). Close the gate valve. If the carriage or mast weldments lower slowly, the seals in the lift cylinders have leaks.

4. If the carriage does not move, open the gate valve and check the movement again. If the carriage lowers when the gate valve is open, check for leaks in the hydraulic lines and fittings. If no leaks are found, the main control valve can have damage. Remove the load from the forks.

TILT SYSTEM

1. Put a capacity load on the forks. Slowly tilt the mast forward. If the mast continues to slowly tilt forward when the control valve is in the NEUTRAL position, there are leaks inside the hydraulic system. The maximum speed that the mast is allowed to tilt forward when there are internal leaks in the lift system is 13 mm (0.5 in.) per 10 minutes (measured at the tilt cylinder). The maximum speed is measured when the hydraulic oil is 30°C (90°F). If the oil temperature is 70°C (160°F), the maximum speed is 39 mm (1.5 in.) per 10 minutes.

2. If the leak rate is greater than the specifications, remove the load from the mast. Install a valve between the port at the front of the tilt cylinder and the hydraulic line. Put the load on the forks again. Close the valve. If the mast tilts slowly forward, the cylinder seals are leaking.

3. If the mast does not move, open the gate valve and check the movement again. If the mast moves forward when the gate valve is open, check for leaks in the hydraulic lines and fittings. If no leaks are found, the tilt lock valves or the main control valve can have damage. Remove the load from the forks.

Pneumatic Tires and Wheels

REMOVE WHEELS FROM LIFT TRUCK

WARNING

The type of tire and tire pressure are shown on the nameplate. Make sure the nameplate is correct for the type of tires on the lift truck.

WARNING

Wheels must be changed and tires repaired by trained personnel only.

Always wear safety glasses.

Completely remove the air pressure from the tire before it is removed from the lift truck. When dual wheels are installed, remove the air pressure from both tires. Air pressure in the tires can cause the tire and wheel parts to explode, causing serious injury or death.

1. Raise the lift truck as described in in this manual.

2. Remove the air from the tire. Remove the valve core to make sure that all of the air is out of the inner tube. Push a wire through the valve stem to make sure that the stem does not have a restriction. If dual tires are installed, remove the air pressure from both tires.

3. Remove the wheel nuts, then remove the wheel and tire from the lift truck. Lift truck tires and wheels are heavy.

REMOVE TIRE FROM WHEEL

Refer to Figure 84 when removing tire from wheel.

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