FOREWORD

H-series CPCD40 , CPCD45, CPCD50, CPQD40, CPQD45, CPQD50, CPYD40, CPYD45, CPYD50 and CPQYD40, CPQYD45, CPQYD50 internal combustion counterbalanced forklift trucks-material handling machines that are driven by front axle, and steered by rear axle. Trucks are used for materials handling, loading and discharging, and piling piece cargo at the goods yard, station, port, building site and plant, also used to transport in short distance.

For such features: Luxury exterior, fine streamline, low noise and pollution, flexible operation, wide view mast, safety and reliability, shock absorption, dustproof, fine tractate and traveling ability, fine riding comfort, trucks are regarded as ideal equipments to accomplish the mechanization of loading and unloading.

There will have a wider use if trucks are fitted with all kinds of the attachments (such as side shift, rotator, paper roll clamps, fork petitioners and so on).

This manual describes the performance, construction, operation and maintained of the above trucks. Before putting the forklift trucks into use, please read the manual carefully in order to ensure the proper operation of the forklift trucks.

To improve our forklift trucks, absorb your valuable suggestion, please send to us suggestion content.

We also ask your understanding for the fact that, due to on-going improvement of parts and equipment, the numerical values given in the manual are subject to change without notice.

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	Model			CPCD40-M2	CPCD45-M2	CPCD50-M2
2.2	Engine	Model		S6S		
		Type		6-cylinder, water-cooled Diesel Engine		
		Total Displacement	mL	4966		
		Rated Power/speed	kW/rpm	52/2300		
		Max. torque/speed	Nm/rpm	248/1700		
2.3	Hydraulic System	Rated pressure	MPa	19		
		Pump Model		CBKa-G425-ATφL CBKa-G425-ATφ		
		valve mode	mL/r	25×2		
		Control valve model		CDB-F20U		
		Diameter×Stroke(lift)	mm	70×1495		
		Diameter×Stroke(tilt)	mm	90×188		
2.4	Tyre	Front wheel		8.25-15-14PR	300-15-20PR	
		Pneumatic	Pa	8.3×10^5		
		Rear wheel		2-7.00-12-14PR		
		Pneumatic	Pa	8.6×10^5		
2.5	Steering Valve	Model		BZZ1-160		
		Displacement	mL/r	160		
2.6	Steering Axle	Steering angle (inner wheel)		78°42′		
		Steering angle (outer wheel)		54°36′		

outer circumferences encase to insure oil sealing during operation. The piston has a check ball to prevent dragging.

The clutch surface and gear bushings are always lubricated with oil to prevent seizure. When replacement of any clutch disk is needed, the mating steel plate should also be changed.

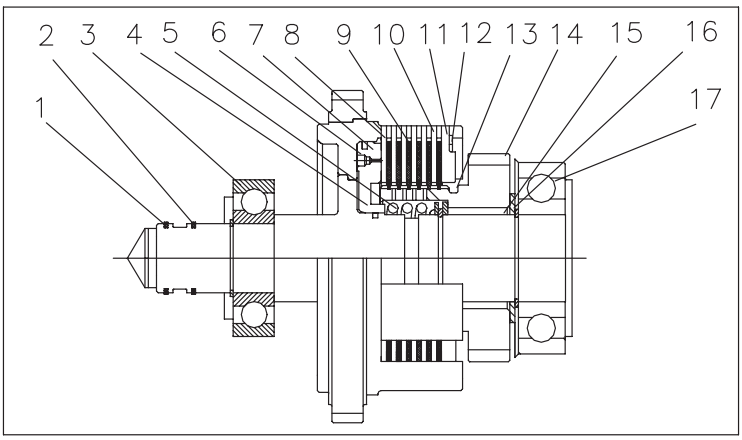

Fig.2-3 Clutch group

1. Seal ring	2. Seal ring	3. Ball bearing	4. Seal ring
5. Return spring	6. Piston	7. Seal ring	8. Conical plate
9. clutch plate	10. Steel plate	11. End plate	12. Snap ring
13. Thrust washer	14. Gear	15. Needle bearing	16. Thrust washer
17. Ball bearing			

2-4 CONTROL VALVE

The control valve consists primarily of the directional selector valve, regulator valve, accumulator piston , directional selector electromagnetic valve, Speed electromagnetic valve and including valve. The accumulator piston, interlocked with the directional selector valve. Is actuated by the operation of the directional selector spool.

The oil picked up by the gear pump flows into the control valve and flow regulated by the orifice while its pressure is regulated to the specified pressure(12～15kg/cm2).

When the directional selector electromagnetic valve is placed in the forward or reverse position, the pressure regulated oil is sent to the forward or reverse clutch pack by the directional selector valve, while the accumulator piston is moved by the oil so that the shock induced by clutch engagement is alleviated by operation of the accumulator along with the orifice.

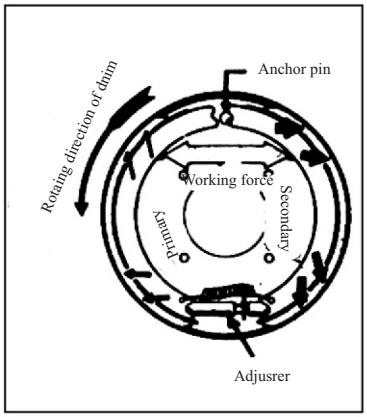

Fig.4-3 In Forward

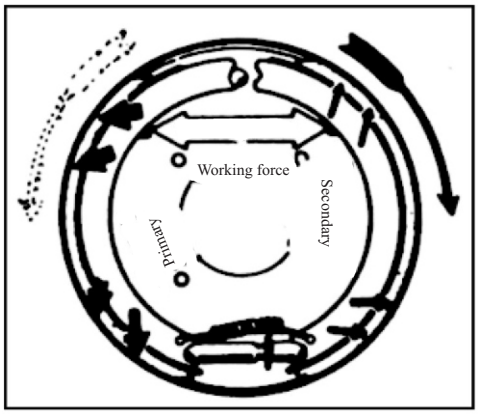

Fig.4-4 In Reverse

4-4 PARKING BRAKE

The parking brake consists of the parking brake lever and cable as shown in Fig.4-5. The brake shoes and brake drum are commonly used with the wheel brake system. The brake lever is a toggle type which allows the adjustment of braking force with the adjuster at the tip or the lever.

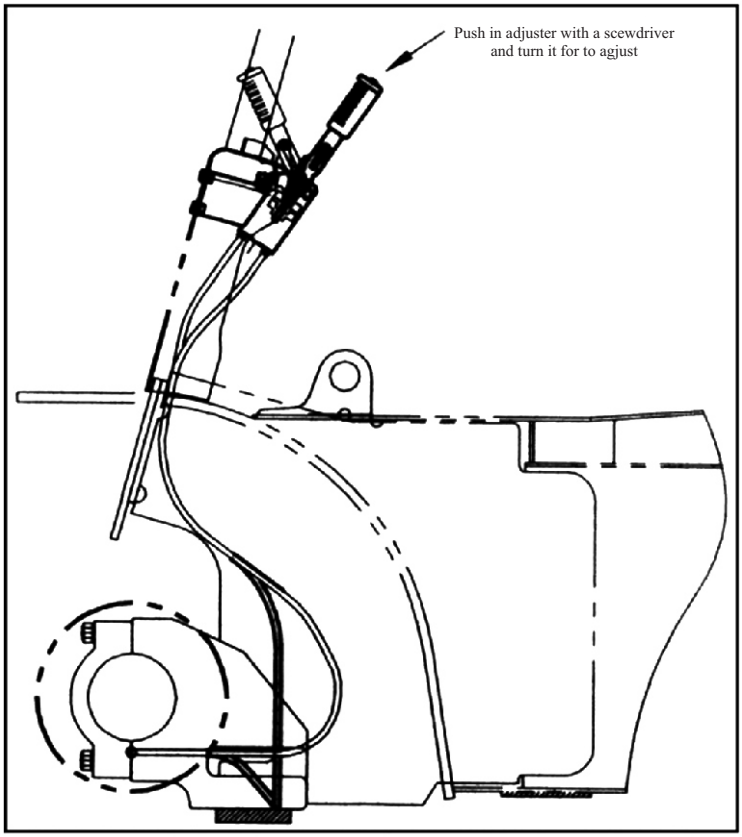

Fig.4-5 Parking Brake

4-5 AUTOMATIC CLEARANCE ADJUSTER

4-8 TROUBLE SHOOTING OF THE BRAKE SYSTEM

Problem	Probable cause	Remedy
Poor braking	1.Fluid leaks from brake system	Repair
	2.Maladjustment of brake shoe clearance	Check and adjust adjuster
	3.Overheated brake	Check for dragging
	4.Poor contact between brake drum and lining	Adjust contact
	5.Foreign matter adhered to lining	Repair or replace
	6.Foreign matter mixed in brake fluid	Check brake fluid level
	7.Maladjustment of brake pedal	Adjust
Noisy brake	1.Hardened lining surface or foreign matter adhered	Repair or replace
	2.Deformed backing plate or defective bolts	Repair or replace
	3.Deformed or improperly installed shoe	Repair or replace
	4.Uneven wear of lining	Replace
	5.Defective wheel bearing	Replace
Uneven braking	1.Contaminated lining	Repair or replace
	2.Maladjustment of brake shoe clearance	Check and adjust adjuster
	3.Malfunctioning wheel cylinder	Repair or replace
	4.Defective shoe return spring	Replace
	5.Run out of drum	Repair or replace
	6.Improper in pressure of tire	Adjust
Soft or spongy brake	1.Brake fluid leaks from system	Repair
	2. Maladjustment of brake shoe clearance	Check and adjust adjuster
	3.Air mixed in brake system	Bleed air out of system
	4. Maladjustment of brake pedal	Adjust

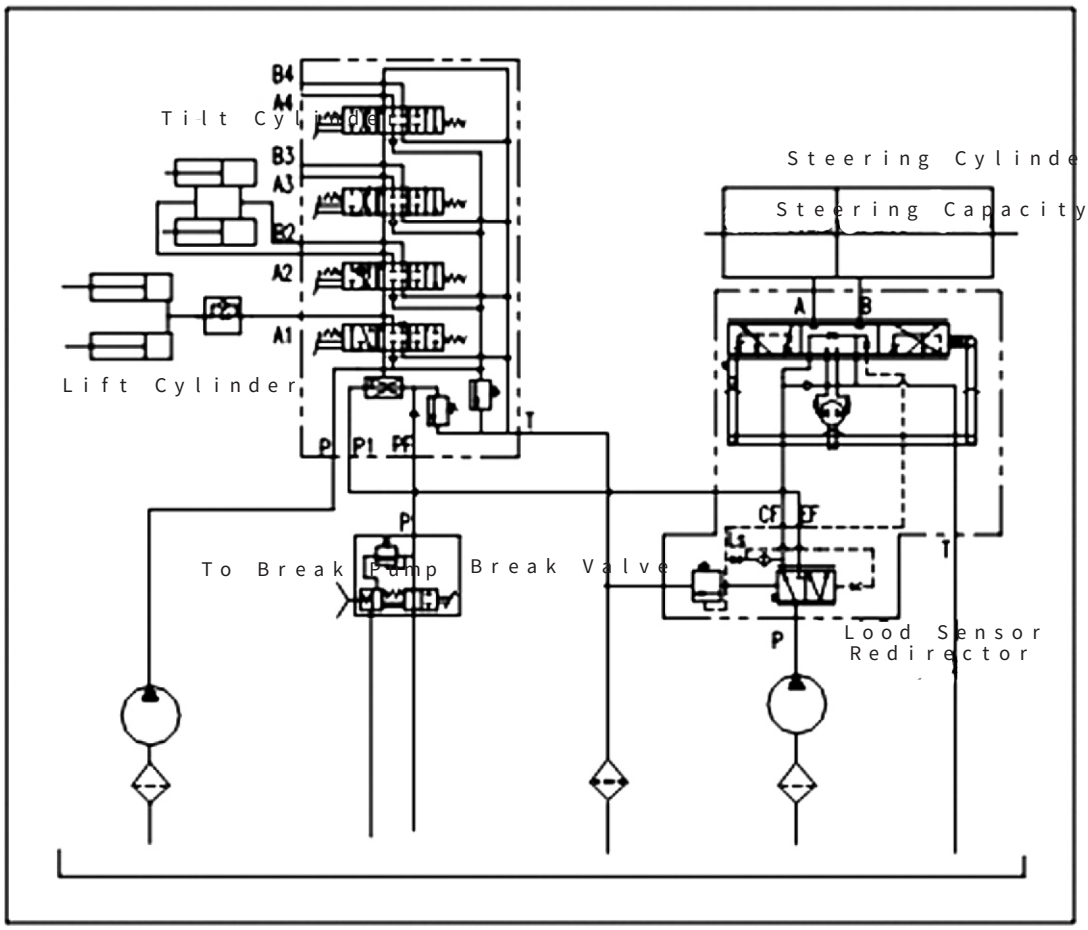

Fig.6-1 Hydraulic System Principle Diagram

6-2 FLOW DIVIDING VALVE (Fig.6-2)

The model of the flow-dividing valve is 21730-40667 type (the home type is 1WFL-F15L-6). Its function supplying hydraulic oil to the loading system (except lift and tilt cylinder). In addition supplying part oil to the brake system to complete power brake.

plate of mast is same as that above about inner and outer mast. Fork and bracket can run up or down in the inner mast. The distance between two forks can be adjusted according to needs; its range is from 300mm to 1340mm

7-3 LIFT CHAIN

The lift chain is flat type chain. Each of the ends of two chain is connected with the fork bracket. and the other is connected with the top of outer mast after chain run round the chain wheel.

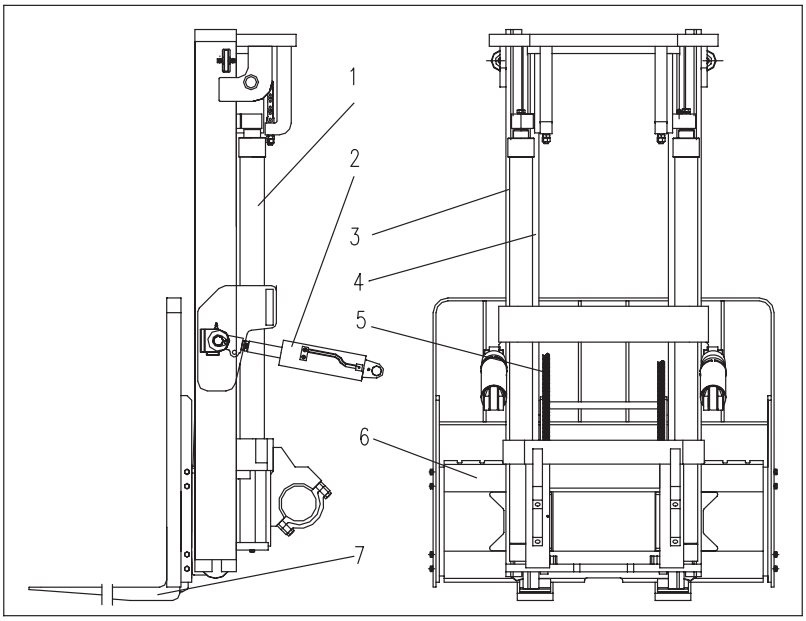

Fig.7-1 Loading System

1. Lift Cylinder 2.Tilt Cylinder 3.Outer Mast 4. Inner Mast 5.Lift Chain 6.Fork Bracket 7. Fork

8. ELECTRIC SYSTEM

8-1 GENERAL DESCRIPTION

The electric system is composed of a starter circuit, charging circuit, lighting circuit, controlling circuit and safe ting circuit which are respectively activated by one 12-volt battery connected in series. The wring used for each circuit is classified by color and given sufficient current capacities. The main part to the starter circuit is the starter, of the charging circuit is the generator, of the lighting circuit is the different function lights, of the controlling circuit is the ECU, electric accelerator pedal, oxygen sensor and different function sensors, of the safe ting circuit is the control, seat switch and hand control switch.

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