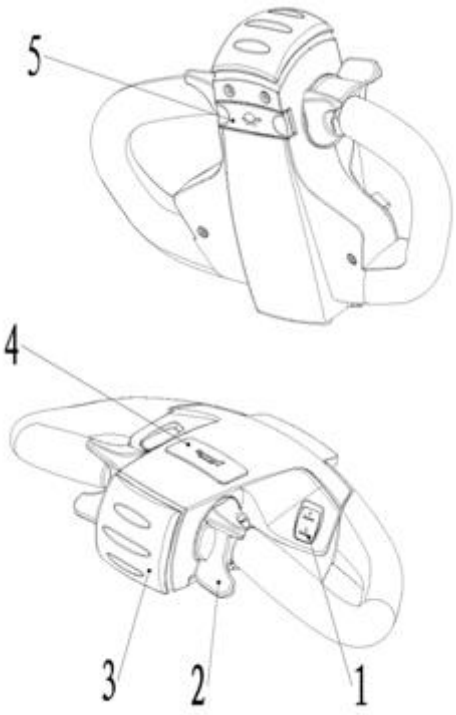
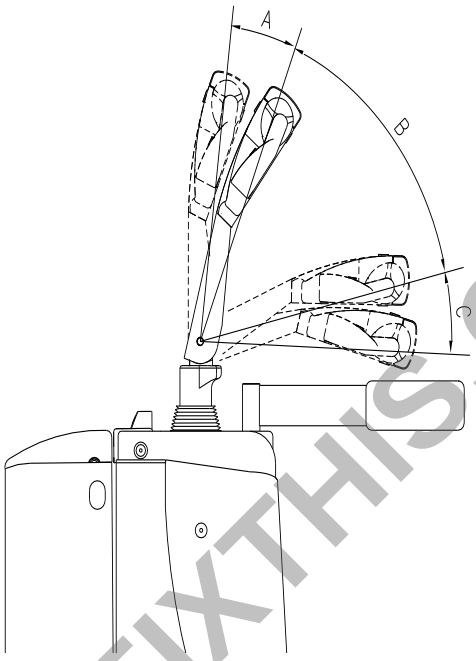
(1) Operation control





1.	Lifting button
2.	Lowering button
3.	Accelerator knob
4.	Emergency reverse button
5.	Horn
6.	Slow-down button

1. Lifting and lowering operation: Press the lowering button of the forks, the forks will descend. While the lifting button is pressed, the fork will rise.
2. Accelerator knob: It is used to control the travel direction and speed of the electric truck. Before operation of the truck, firstly turn the operation handle to area B shown as above. When the handle is placed in area A or C, the truck will be powered-off and braked. At this time, the truck can not drive. When the operation handle is placed in area B and the acceleration knob is turned in one direction, the truck will travel in that direction. Meanwhile the truck will be accelerated with the increasing of rotation amplitude of the knob. When the accelerator knob is turned in another direction, the truck will travel in another direction. Likewise, the truck will speed up with the increasing of rotation amplitude of the knob.
3. Horn button： Horn of the truck will be turned on if you press the button.
4. Emergency reverse button: when the operation handle is placed in area B and the emergency reverse button is pressed, the truck will travel in an opposite direction away from the operator immediately. This is a safety switch which can avoid the operator from being squeezed under unexpected condition.
5. Slow-down button: When this button is pressed, the truck will travel at an extremely slow speed. This button is applicable for operation on especially narrow field or on the condition that the truck needs to be accurately located.
6. Electric lock：It is used to control switching-on and switching-off of main power supply of the truck.

PREVIEW - YOUFIXTHIS.COM
Download full manual at youfixthis.com

Characteristics	1.1	Manufacturer(abbreviated)		Ningbo Ruyi
	1.2	Model		CBD20R-Ⅱ
	1.3	Driving model		motor-driven
	1.4	Driving model（Manual, Walking, Stand driving, Seat driving ,Order picking）		Stand driving
	1.5	Rated load	Q(kg)	2000
	1.6	Load center distance	c(mm)	600
	1.8	Front overhang	x(mm)	815/865/935
	1.9	Tread	Y(mm)	1211/1261/1331
Weight	2.1	Service weight(with battery)	kg	710
	2.2	Axle load, front/rear, laden	kg	1300/1410
	2.3	Axle load, front/rear, unladen	kg	600/110
Wheel chassis	3.1	Wheels (rubber, high elasticity, pneumatic tyre, polyurethane wheel)		polyamine
	3.2	Wheel dimension, front		Φ250×70
	3.3	Wheel dimension, rear		Φ82×126
	3.4	Additional wheel(dimension)		Φ127×57
	3.5	Wheel number, front/rear （x = driving wheel）		1X+2/2
	3.6	Tread, front	b_{10}(mm)	490
	3.7	Tread, rear	b_{11}(mm)	340/370/470/505
Dimension	4.4	Lift height	h_3(mm)	120
	4.9	Min. /Max. height of operation handle, in driving position.	h_{14}(mm)	1070/1450
	4.15	Height, lowered	h_{13}(mm)	82
	4.19	Overall length	l_1(mm)	1710/1760/1830
	4.20	Length to fork face	l_2(mm)	610
	4.21	Overall width of truck body	b_1(mm)	775
	4.22	Fork dimension	S/e/l(mm)	54×180×1100(1150/1220)
	4.25	Overall width of fork	b_5(mm)	520/550/650/685
	4.32	Wheelbase ground distance	m_2(mm)	28
	4.33	Aisle width, with pallet 1000x1200 crosswise	A_{st}(mm)	1910/1960/2030
	4.34	Aisle width, with pallet 800x1200 lengthwise	A_{st}(mm)	2010/2010/2030
	4.35	Turning radius	W_a(mm)	1550/1600/1670
Performance Data	5.1	Traveling speed, laden/unladen	Km/h	6.7/7.1
	5.2	Lifting speed, laden/unladen	m/s	0.039/0.056
	5.3	Descending speed, laden/ unladen	m/s	0.064/0.050
	5.7	Gradeability, laden/unladen	%	6/12
	5.8	Max. gradeability, laden/unladen	%	8/20
	5.10	Traveling brake		Electromagnetic brake
Motor	6.1	Driving motor power	kW	1.2（1.5）
	6.2	Lifting motor power	kW	0.8（1.2）
	6.4	Battery voltage/rated capacity	V/Ah	24/210
	6.5	Battery weight	Kg	170
		Battery dimension（LXWXH）	mm	750×170×534
	8.4	Noise level at operator's ear, according to DIN12053	dB(A)	70

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

4.6 Inspection and maintenance after 50 hours （Weekly）

Braking system	1	When the operation handle is turned, with the steering handle switching between area A and B, there is a noise from the brake.
	2	The oil dirt and dust on the turning gearwheel should be cleaned.
	3	The clearance between brakes should be kept between 0.2mm and 0.8mm
Capability of electrolyte	4	Inspect the liquid level of electrolyte, pure water can be used for supplement if the liquid level is too low.
density of electrolyte	5	The specific gravity should be1.28g/ml after charged.
Clean the storage battery	6	Cover the lid, and flush with tap water.
Inspect the contactor	7	Burnish the coarse surface of contacts using sand paper.

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

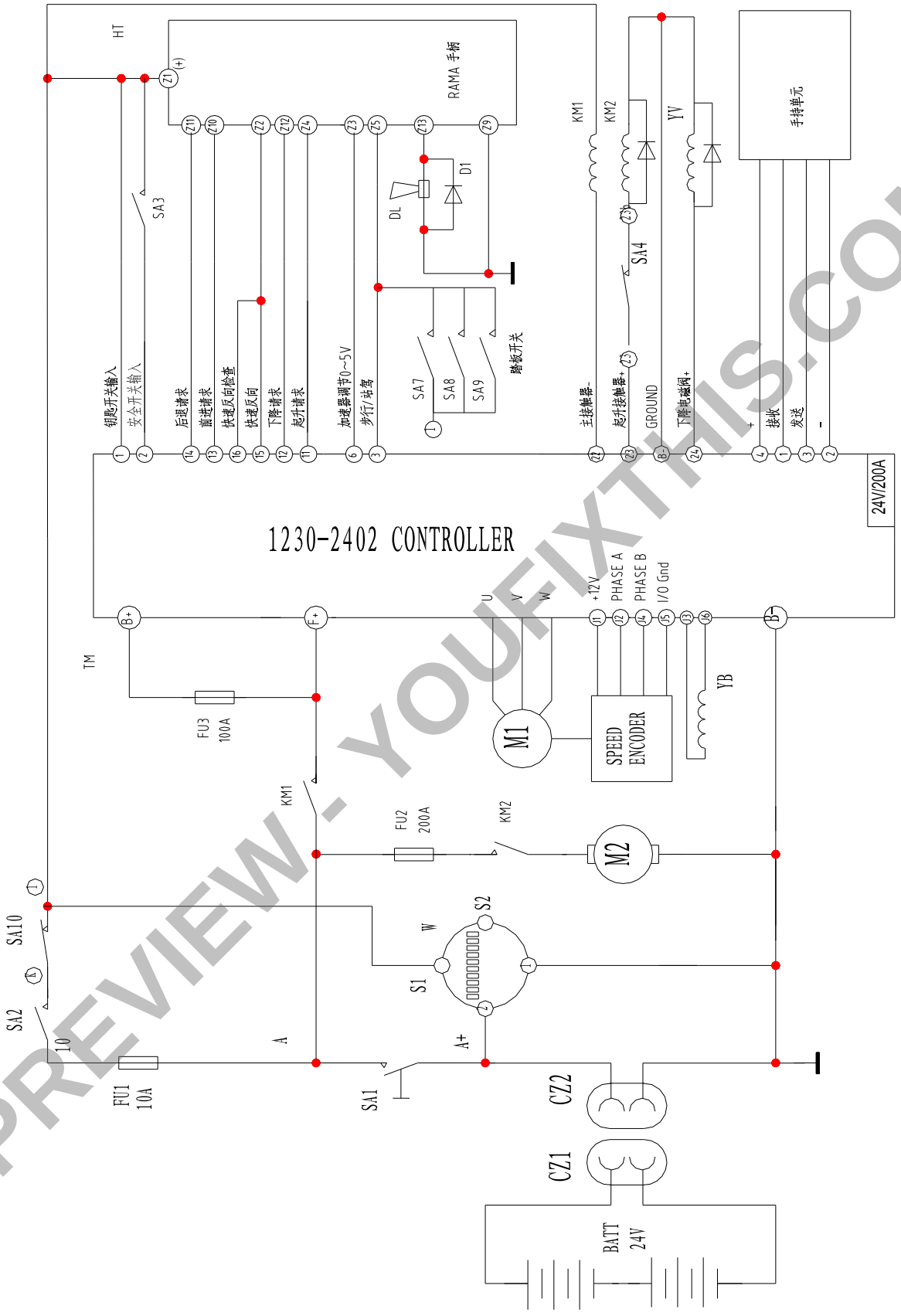
4.11 Common faults and troubleshooting:

Faults	Possible cause	Trouble shooting
Abnormal noise during lifting	The oil-absorptive filter is blocked	Clean or replace the oil-absorptive filter
	The oil-absorptive tube leaks and the oil are foaming.	Fasten the tie-in, check the oil level, or add some oil.
	Hydraulic pump or motor is damaged.	Contact maintenance personnel of our company
	Seal malfunction, and make the air enter oil pump.	Contact maintenance personnel of our company
	The viscidity of oil is not correct, oil level is too low.	Replace the oil or add some oil
Hydraulic system has no pressure or the pressure is too low	Malfunction in pump oil-absorptive, and noise exists.	Replace the oil or add some oil
	Oil pump is damaged	Contact maintenance personnel of our company
	There is malfunction in valve block.	Contact maintenance personnel of our company
	The pipeline is broken or leaking.	Replace the pipeline or screw down the tie-in.
	The viscidity of oil is not suitable; the leakage loss is too great.	Change the oil.
The oil pressure is not stable	The cause is the same as that of abnormal noise.	Refer to the treatment methods for abnormal noise.
	The lifting cylinder or seal ring is worn.	Replace the cylinder sleeve or seal ring
	The quantity of oil is not enough	Add oil
The truck cannot start	Storage battery is used up.	Inspect, charge, or replace the storage battery
	The wire terminal is loosened.	Screw down the terminal screw
	he fuse is burn out.	Replace the fuse
	The accelerator is damaged.	Replace accelerator
The direction is ineffective and heavy.	The steering device is blocked by the abnormal matter.	Clean up the foreign matter.
	The bearings of steering device are worn.	Replace the bearings
Brake cannot work	The friction plates of the electromagnetic brake are damaged	Replace
Not release after braked	The electromagnetic brake is out of electricity.	Check the circuit.
	The clearance of the electromagnetic brake is too large.	Adjust the brake clearance to 0.2mm.

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

4.14 Electrical equipment troubleshooting

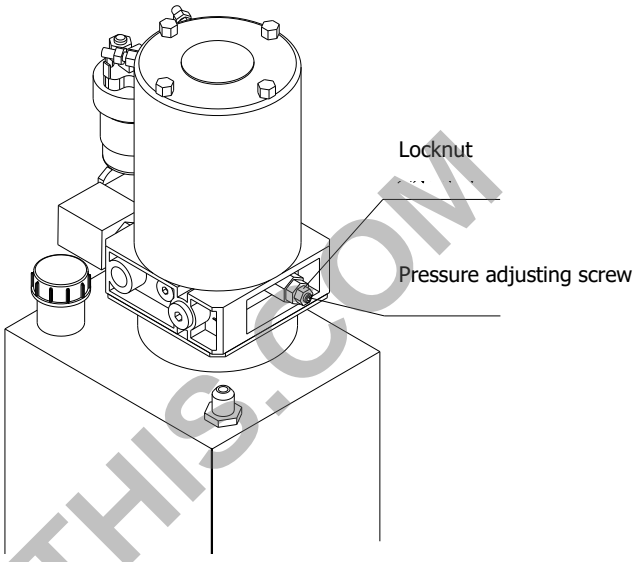


PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

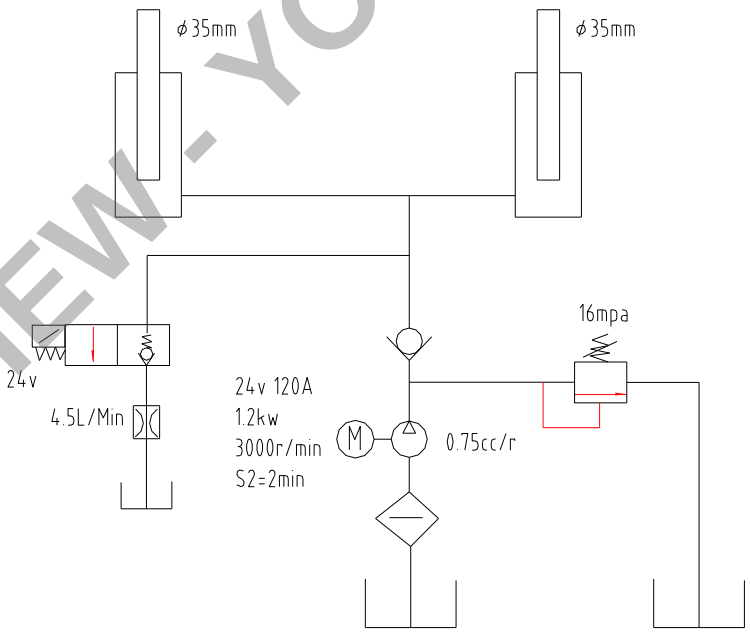
4.12 Adjustment methods of safety valve pressure

The pressure of safety valves has already been adjusted when the truck is ex-factory. Users shall not adjust the pressure at will. Otherwise it will bring danger to the truck's hydraulic system and safety. If the oil pressure is not in accordance with specified value, please ask the professional personnel to adjust according to the test methods stipulated in the JB/T3300 standards as well as the following methods:



1. Screw out high pressure oil tube and install pressure meter with capacity over 20Mpa at the high pressure oil outlet.
2. Press lifting operation button to measure the system pressure. The stipulated system pressure is 11.5Mpa for truck with rated load of 2000kg and 13.5 Mpa for truck with rated load of 2500kg.
3. If oil pressure is not in accordance with the specified value, please loosen locknuts of the overflow valves. Turn pressure screw left and right until the pressure reaches the clockwise, the system pressure increases. While the screw is turned counter clockwise, the system pressure decreases.
4. After the adjustment, please screw down the locknuts.

4.13 Hydraulic principle diagram



PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

Appendix I

I.1 UT20RE Electric Pallet Truck packing list

Consignee： Manufacturing number：

Contract number： Date of production：

Serial number	Cargo name	Number of units	Net (kg)	Contour Dimension （L×W×H）	Remark
1	UT20RE Electric Pallet Truck	1			Complete machine
2	Accessory bag	1			Technical documents, accessories and spare parts

Note：The following documents are in the file bag

- 1 – UT20RE Electric Pallet Truck operating instruction
- 1 – Packing list
- 1 – Certificate of quality

I.2 Accessory and spare parts

Design ation	Use part	Specification	Quantity	Remark	Designation
1	Electriclock key	Open electric lock		2	
2	Charging plug、socket	Matched with charger		1set	For external
3	Fuse	Electrical equipment	10A	1	
4	Fuse	Electrical equipment	100A	1	
5	Fuse	Electrical equipment	180A	1	
6	seal ring UHS35	hydro-cylinder	35X45X6	2	
7	O-seal ring	hydro-cylinder	35.5×2.65	2	
8	O-seal ring	hydro-cylinder	45×2.65	2	
9	Dust ring DH35	hydro-cylinder	DH35	2	
10	Charging cable	Charger		1	For built in

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

5. The store, transportation and loading of truck

5.1 Loading and unloading of truck:

Before loading the truck, check out the nameplate for the total weight of truck to choose appropriate hoisting handling equipment. The hoisting of truck shall be kept level, and landing shall be kept slow and stable. The personnel around shall watch for safety. One of the personnel is responsible for conducting. If the other truck is used for loading and unloading, please watch the bottom situation of the truck. Take care to insert the fork arms to the bottom, in avoidance of damaging the driving wheel, balance wheel and forward wheel.

5.2 Transportation of truck:

If the truck needs to be transported for a long distance, support the side near to driver of truck with square timber to lift the driving wheels of truck from the ground. The two front wheels of truck shall be fixed stably by sphenoid wood block. Fasten the truck to transport vehicle with ropes.



Movement of the damaged truck

Towing of the truck is not allowed. As for the movement of damaged trucks, please refer to the operation methods of loading &unloading and transportation mentioned above.

5.3 The store of truck:

If the electric pallet truck is not used for over two months, it should be placed in the room which is in good ventilation, no frost, clean and dry; also the following measures should be taken:

1. Clean the truck thoroughly.
2. Lift the forks completely for several times, check it is normal or not.
3. Lower the forks to the lowest position.
4. Support the side near to driver of truck with square timber to lift the driving wheels of truck from the ground.
5. Apply a layer of flimsy oil or grease on all the bared surface of mechanical parts.
6. Lubricate the truck.
7. Check the status of storage battery and electrolyte, and imbrue the non-acid lubricating grease to the binding post of storage battery.
8. All the electrical contacts should be sprayed using appropriate contacts spray.

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

PREVIEW ONLY

You're viewing 8 of 45 pages

The full manual includes:

- All 45 pages, complete
- Searchable PDF (find any keyword)
- No watermarks
- Instant download
- Print-ready quality

GET FULL MANUAL NOW

Utilev UT20RE, CBD20R-II Operator Manual

Scan or click anywhere
youfixthis.com

Click anywhere on this page to get the full manual