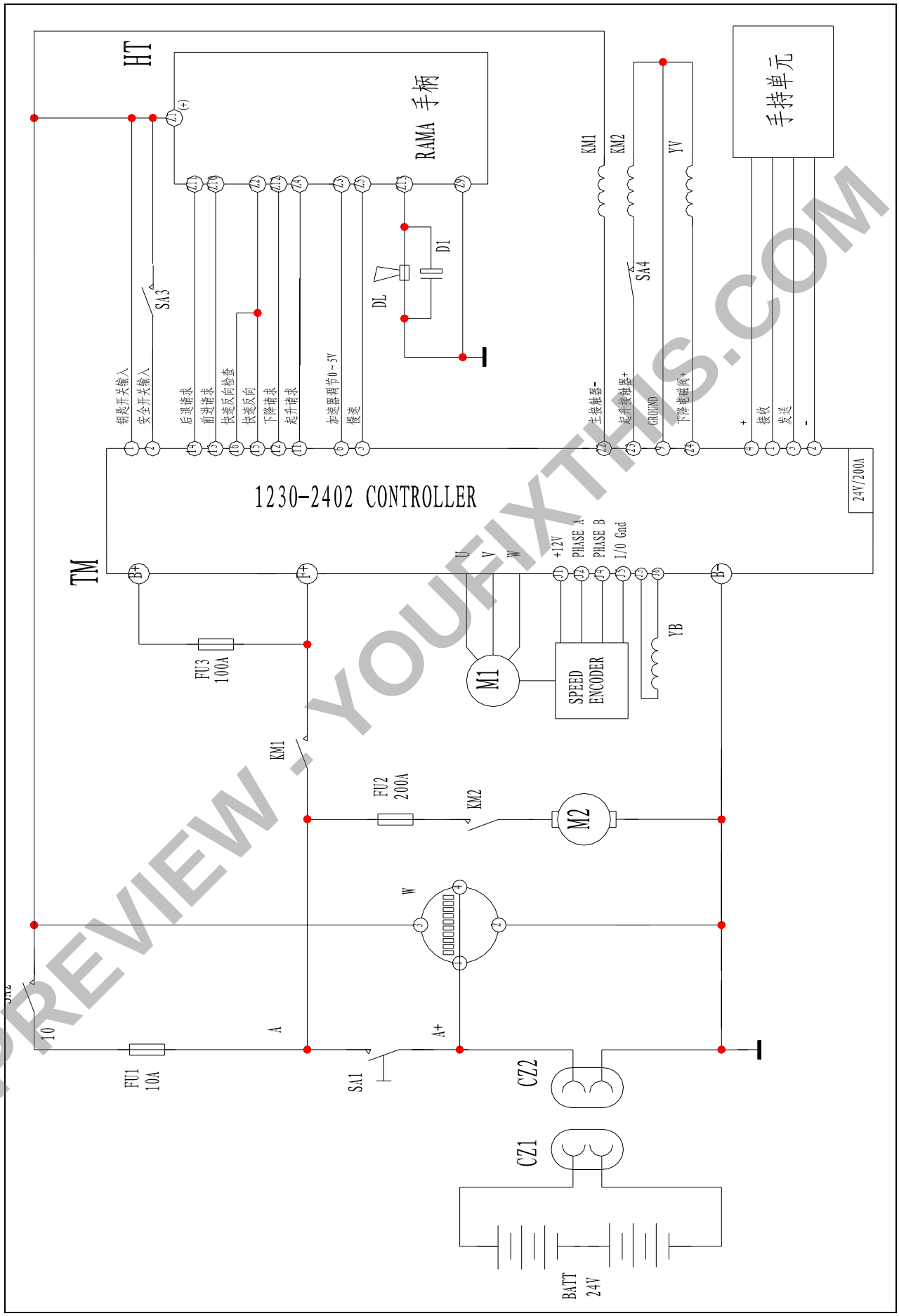
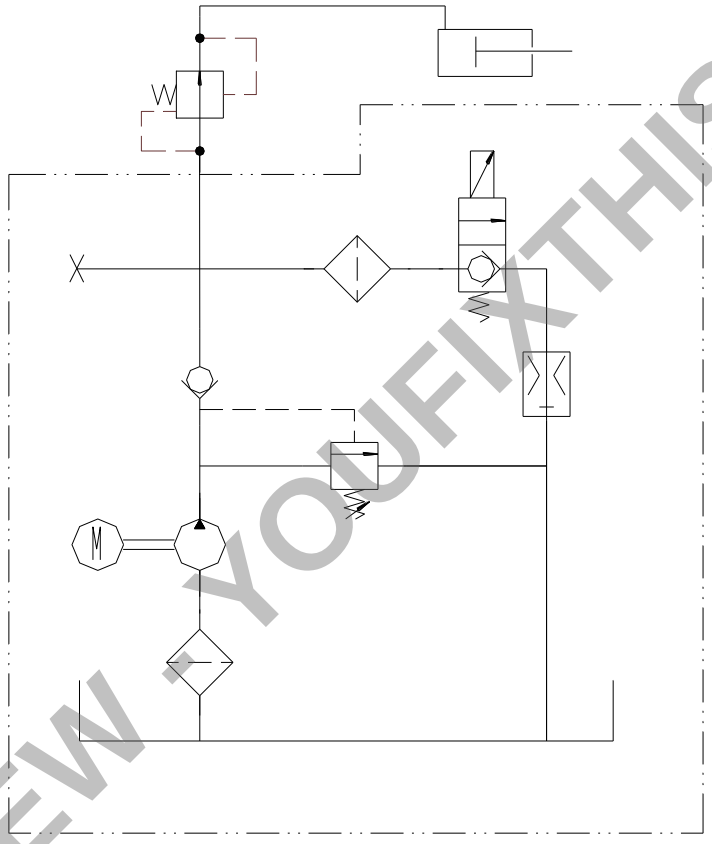


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10. Structure diagram of the major parts

- "The principle diagram of hydraulic system"
- "The principle diagram of electrical system"



The principle diagram of hydraulic system

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5．**Common faults and trouble shooting**

No.	Faults	Cause	Shooting
1	The truck can't be started. (The contacts do not work.)	①The fuse of the control circuit is burn out.	Replace
		②The power switch contact is bad or damaged.	Repair or replace
		③ The fuse of the major circuit is broken.	Replace
		④ The contact of the electric lock switch is bad or broken.	Repair or replace
		⑤ The connection of the storage batteries is loose or has fallen off.	Tighten
	The truck cannot be started (The contacts work.)	① The side-magnetic brake of the drive wheel does not suck and the truck is in a braked condition.	Repair or replace
		② The walking motor carbon brush is worn or bad contact between the steering device and the carbon-brush.	Repair or replace
		③ The magnet-exciting coil of the stepper motor is broken or bad contact at the wire end.	Repair or replace
		④ Bad contact.	Repair or replace
		⑤ There is a trouble at the MOSFET tube type circuit board.	Repair or replace
2	The truck can only move forward (or backward)	① Bad or broken contact.	Repair or replace
		② There is a trouble in the circuit board.	Repair or replace
3	The truck can not stop while traveling	Broken contact. The moving contact cannot be reset.	Cut off the power at once and replace the contact
4	The brake does not work	①The erection bolt of the fine motion switch looses or is damaged.	Adjust or tighten the bolt or replace the fine motion switch.
		②The connecting wire of the side-magnet brake is loose or the side-magnetic brake is damaged	Tighten the bolt or repair the side-magnet brake.
		③The moving plates of the side-magnetic brake is loose or damaged.	Replace the braking plates.
5	The steering has got stuck	① The bearing of the steering device is damaged.	Replace the bearing
		② The bearing of the steering device lacks lubricant or there is too much dust	Clean the bearing
6	Difficult steering of the drive wheel, noise and the motor is overloaded.	① The gear or bearing has got stuck because of foreign matters.	Clean or replace the bearing
		②There is clearance in the bearing installed or the fixing ring has come off.	Reinstall the ring. Adjust the clearance.
		③The front wheel bearing is damaged.	Replace the bearing
7	The forks cannot be lifted.	①Overload	Reduce the load
		② The pressure of the overflow valve is too low.	Adjust the pressure higher

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1. 2 . Brief technical parameters (UT20KWE Electric Pallet Truck)

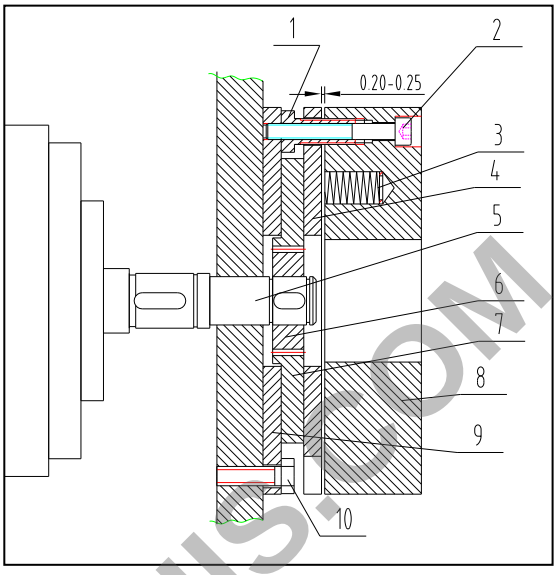
Characteristics	1.1	manufacturer		A5K0
	1.2	Model		UT20KWE
	1.3	Driving model		Electric
	1.4	Driving model（Manual, Walking, Stand driving, seat driving ,Order picking）		Walking
	1.5	Rated load	Q(kg)	2000
	1.6	Load center distance	c(mm)	600
	1.8	Axle center to fork face	x(mm)	835/885/955
	1.9	Tread	Y(mm)	1230/1280/1350
weight	2.1	Service weight(with battery)	kg	620
	2.2	Axle load, front/rear, laden	kg	1170/1450
	2.3	Axle load, front/rear, unladen	kg	470/150
Chassis	3.1	Wheels (rubber, high elasticity, pneumatic tyre, polyurethane wheel)		PU
	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（4）
	3.6	Tread, front	b_{10}(mm)	510
	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 the driving position	h_{14}(mm)	550/1230
	4.15	Height, lowered	h_{13}(mm)	82
	4.19	Overall length	l_1(mm)	1655/1705/1775
	4.20	Length to fork face	l_2(mm)	555
	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	Fork width	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)	2246/2296/2366
	4.34	Aisle width, with pallet 800x1200 lengthwise	A_{st}(mm)	2132/2150/2190
	4.35	Turning radius	W_a(mm)	1390/1491/1510
Performance Data	5.1	Traveling speed, laden/unladen	Km/h	5.5/5.6
	5.2	Lifting speed, laden/unladen	m/s	0.039/0.056
	5.3	Descending speed, laden/ unladen	m/s	0.044/0.035
	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
	6.2	Lifting motor power	kW	0.8
	6.4	Battery voltage/rated capacity	V/Ah	24/210
	6.5	Battery weight	Kg	180
		Battery dimension（LXWXH）	mm	750×170×534
	8.4	Noise level at operator's ear, according to DIN12053	dB(A)	70

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3.2.3 Adjustment of the brake clearance

1) Hollow screw
2) Fitting screw
3) Spring
4) Armature
5) Motor shaft
6) Spline housing
7) Friction plate
8) Electromagnetic coil
9) Mounting cover plate
10) Mounting screw



The brake structure is indicated as the Fig on the right. After being used for a while, the performance of the brake may decline with the wearing of the brake block or the brake plate can't be released. At this time, it is necessary to adjust brake clearance. As indicated in the figure on the right, in braking status, use a feeler guage to check the gap between the brake block and electromagnet, if the gap is more than 0.5mm, then it needs adjustment. Before adjustment, clean the dirt and dust on the friction plate. When adjusting, loosen the fixed screw (2), adjust the length of set screw (1), then fasten the retention screws, after adjustment, the clearance between the brake block and electromagnet (8) should be fixed from 0.2~0.3mm. It has to be noted that even adjustment for three retention screws can make even clearance gap between the brake block and electromagnet after adjustment. After the adjustment, turn on the brake with 24v DC power. Then the brake will make clear sound.

- Be alert to obstacles when the truck travels. Slow down at turns.
- Switch off the power immediately when the truck is out of control to cut off the power supply.
- There is quick advance switch on the top of the handle assembly. The truck will advance quickly in a reverse direction when it is moving backward after pressing the switch in case of emergency.

4．Maintenance

Note: It is prohibited for untrained personnel to maintain the truck

4.1 Whether the truck can operate satisfyingly depends on the efficient maintenance. When maintenance is ignored, the truck may pose a threat to human lives and cause property damage. Routine inspection should be conducted, when the truck is in operation, to eliminate abnormal conditions. Never use a truck with trouble to ensure safety and to prolong the service life of the truck.

4.2 **Maintenance**: The maintenance of the truck is divided into three levels, i.e. routine maintenance, level I maintenance and level II maintenance.

Routine maintenance: Daily maintenance is to clean the surface of the truck body and the surface of the storage battery and to examine the firmness of the power supply cable.

Level I maintenance: Level I maintenance should be performed once every week. Besides what should be done in daily maintenance, the operation situation of all the parts should be carefully inspected to see whether the operation is normal; whether there is any loose of the fasteners; is there any oil leakage at the hydraulic connection; is there any abnormal wearing and tearing in the mechanical parts; is there any abnormal temperature rise or sparks in the electric part, etc. If there is any abnormal situation, adjustment or trouble-shooting should be performed promptly.

Level II maintenance should be carried out as planned. Overall inspection should be performed for the truck according to the following requirements.

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