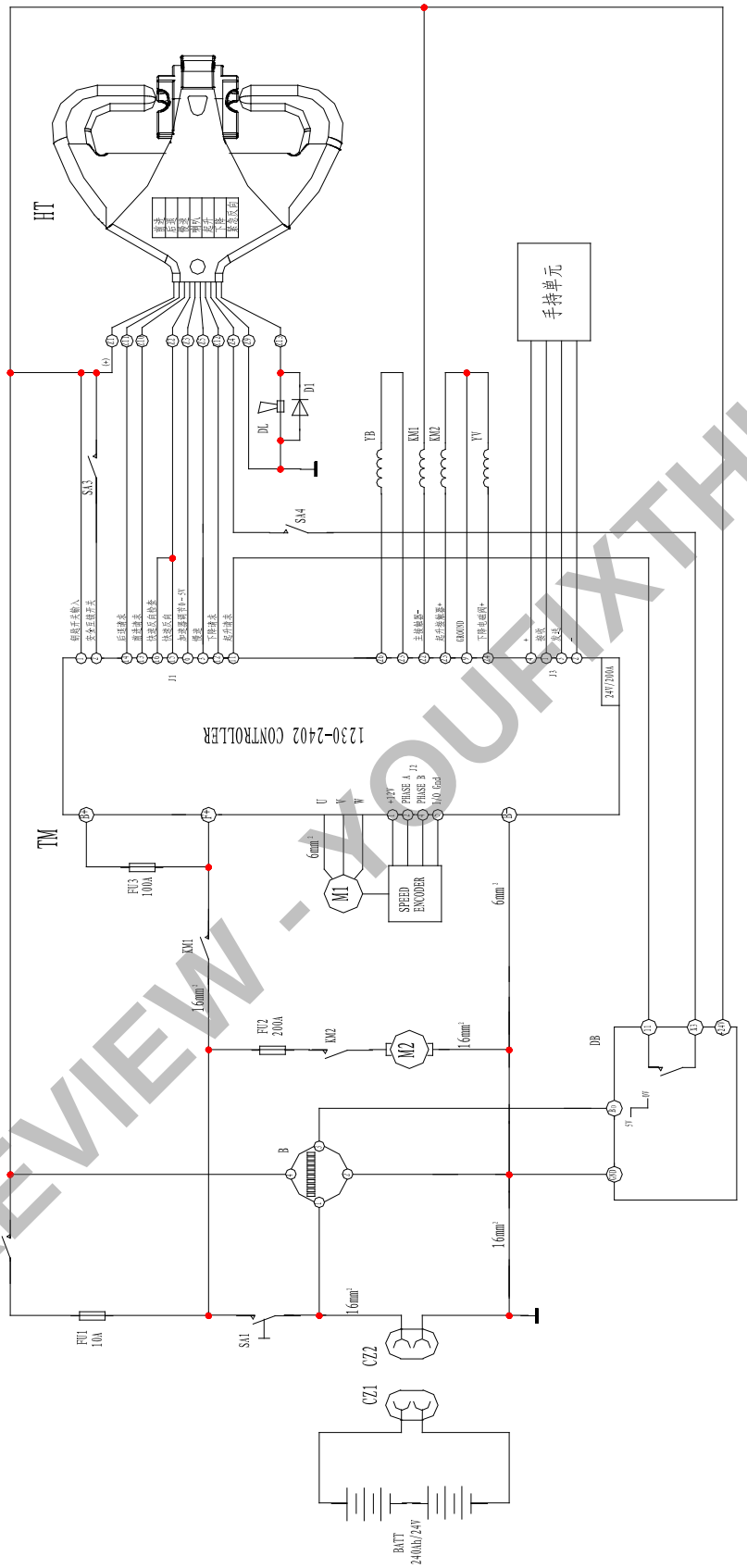


Standard Full Electric Pallet Stacker

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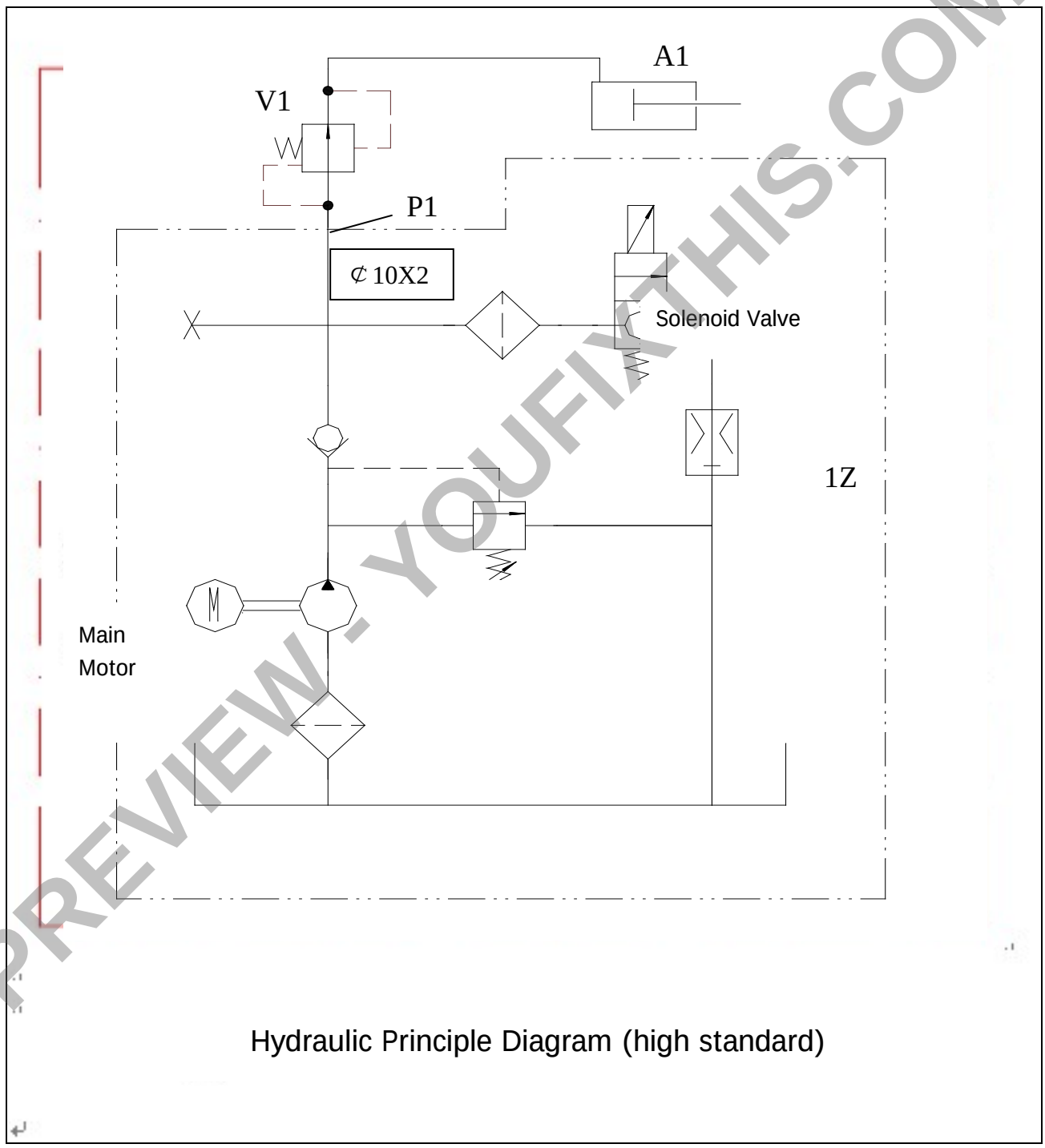
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15．Structure diagram (explosion diagram) and principle diagram of the major parts

See attached diagram I for “The principle diagram of hydraulic system”

See Electric Instructions for “Instruction of the electric system”

See attached diagram II for “The explosion diagram”



Hydraulic Principle Diagram (high standard)

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13. Common fault signal and troubleshooting

1230 controller fault code and diagnosis list

LED CODE	1311 DISPLAY	EXPLANATION	POSSIBLE CAUSE
1,2	motor speed encoder	The speed sensor signal can't be detected.	1 Incorrect or ineffective speed sensor wiring. 2 Controller defective.
	Motor Failsafe	The motor speed is not in the normal scope.	1 Speed sensor malfunction. 2 The electromagnetic brake of motor is not loosened completely. 3 Insufficient braking torque. 4 P,I setting improper 5 Failsafe delay too short
1,3	Motor Overcurrent	Motor overcurrent	1 Incorrect motor wiring 2 Controller defective.
	Motor Output Fault	Controller output abnormal	1 Incorrect motor wiring 2 Controller defective.
1，4	Static Return To Off	SRO sequencing error	1 Improper sequence of KSI,INTERLOCK,F/R 2 Wrong SRO type selected. 3 Direction switch malfunction. 4 Sequencing delay too short.
2，1	Throttle Wiper High	Accelerator voltage is too high.	1 Accelerator is damaged. 2 Wrong accelerator type selected.
2，2	EMR Wiring Open	EMR wiring fault	1 EMR wire or check wire broken.
2，3	High Pedal Disable	HPD	1 Incorrect sequence of accelerator and KSI,INTERLOCK. 2 Wrong HPD type selected. 3 Accelerator malfunction 4 Key switch and INTERLOCK power-off. 5 Sequencing delay too short. 6 Wrong accelerator type selected.
2，4	Throttle Wiper Low	Accelerator voltage is too low.	1 Accelerator is damaged. 2 Wrong accelerator type selected.
3，1	Multiplexer Fault	Multiplexer malfunction	Multiplexer malfunction
3，2	Main Contactor	Missing or welded main contactor.	1 Main contactor coil open. 2 Main contactor stuck closed 3 Welded main contactor 4 Main contactor driver shorted.

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12. Common faults and trouble shooting:

No.	Faults	Possible causes	Trouble shooting
1	The stacker can not start.(The contactor does not work either)	① The fuse of control circuit is burnt out.	Replace
		②The power switch is in poor connection or is damaged.	Repair or replace
		③ Fuse of main circuit is blown.	Replace
		④The switch of electric lock is in poor connection or damaged.	Repair or replace
		⑤The connection of the storage batteries is loose or has fallen off.	Tighten
	The stacker can not start.(The contactor works.)	① The side-magnetic brake of the drive wheel does not suck and the stacker is in a braked condition.	Repair or replace
		②The 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 stacker can only move forward or backward.	①The contactor is in poor connection or burnt out.	Repair or replace
		② There is malfunction in circuit board.	Repair or replace
3	The stacker can not stop during 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 damaged	Tighten the bolt or repair the side-magnet brake.
		③ The braking plates of the side-magnet brake are worn.	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

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14．Lists of accessories, spare parts and vulnerable parts

14.1 Lists of S1.5R-UT （without full free lift）accessories, spare parts and vulnerable parts

No.	Name	Use position	Type & specification	Quantity	Remarks
1	Key to the electric lock	Unlock the electric lock		2	
2	Charging plug and socket	Matched with the charger		1 set	With no charger for built-in type
3	Fuse	Electric equipment	10A	2	
4	Fuse	Electric equipment	100A	1	standard
5	Fuse	Electric equipment	180A/425A	1	standard/high-standard
6	Sealing ring	Oil cylinder	UHS38	2	
7	O type sealing ring	Oil cylinder	45X2.65	2	
8	Composite ring	Oil inlet of cylinder	D16	2	
9	Dustproof ring	Oil cylinder	DH38	2	

14.2 Lists of S1.5R-UT （with full free lift）accessories, spare parts and vulnerable parts

No.	Name	Use position	Type & specification	Quantity	Remarks
1	Key to the electric lock	Unlock the electric lock		2	
2	Charging plug and socket	Matched with the charger		1 set	With no charger for built-in type
3	Fuse	Electric equipment	10A	2	
4	Fuse	Electric equipment	100A	1	standard
5	Fuse	Electric equipment	180A/425A	1	standard/high-standard
6	Sealing ring	Oil cylinder	UHS27	2	
7	O type sealing ring	Oil cylinder	45X2.65	2	
8	O type sealing ring	Oil cylinder	14X2.65	1	
9	Composite ring	Oil inlet of cylinder	D16	2	
10	Dustproof ring	Oil cylinder	DH27	2	

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9．6 The inspection and maintenance after 200 hours（Monthly）

Besides the weekly maintenance, the following maintenance should be carried out, and when the parts must be adjusted and replaced, please contact with maintenance personnel of our company. (keep monthly maintenance record)

	No.	Check point	Check content
Whole truck	1	Whole status	Abnormal or not.
	2	Horn	Sound
Steering system, braking system, hydraulic system and lifting system	3	Operation handle	When the operation handle is turned, with the handle switching between area A and B, there is a noise from the brake.
	4	Brake clearance	The clearance between brakes should be kept between 0.2mm and 0.8mm.
	5	Operation handle	Degree of tightness and rotary flexibility.
	6	Truck frame and fastener	Function，and check cracks, lubrication and tightness of fasteners.
	7	Connecting rod and wheel carrier	Function and check the cracks, bending, deformation and lubrication condition.
	8	Oil pipe	Whether oil pipes leak or not.
	9	Hydraulic oil	Proper quantity of oil.
	10	Lifting oil cylinder	Whether there is any oil leakage or not.
Storage battery, charger and electric system	11	Electrolyte	Liquid level，specific gravity and cleanness
	12	Plug	Function, whether it is damaged or not
	13	Key switch	Function
	14	Contactor	Contact performance and function
	15	Inching switch	Function
	16	Controller	Function
	17	Driving motor	Wearing status of carbon brush and selenium rectifier.
	18	Lifting motor	Wearing status of carbon brush and selenium rectifier.
	19	Steering motor	Wearing status of carbon brush and selenium rectifier.
	20	Fuse	Whether it is perfect or not
	21	Wiring harness and connection terminals	Whether flexible and whether damaged or not.

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5. Use and operation instruction

The electric pallet stacker adopts storage batteries as the dynamic source for short distance goods handling and stacking. Correct use and operation will bring great convenience to your work but incorrect use and operation will damage the stacker or pose risk to you and your goods.

5. 1 Before operation:

> **Warning**
>
> It is strictly forbidden to use faulty truck.

5. 1. 1 Before operation, please check if the truck is in normal condition: Is there any oil leakage in the hydraulic pipes? Are the supporting wheels able to operate normally? Is there any block? The trucks with problems are prohibited for operation.

5. 1. 2 Check if there is any electric power in the batteries with the method indicated in Fig.I. Pull the general power switch out to turn on the general power supply, unlock the electric lock on the handle, check the electric energy meter on the instrument panel of the truck. If the zero end grid is bright, it indicates there is no electric power in the batteries and charging should be conducted at once. It is prohibited to operate the truck without electric power as that will greatly reduce the service life of the batteries and even damage the batteries.

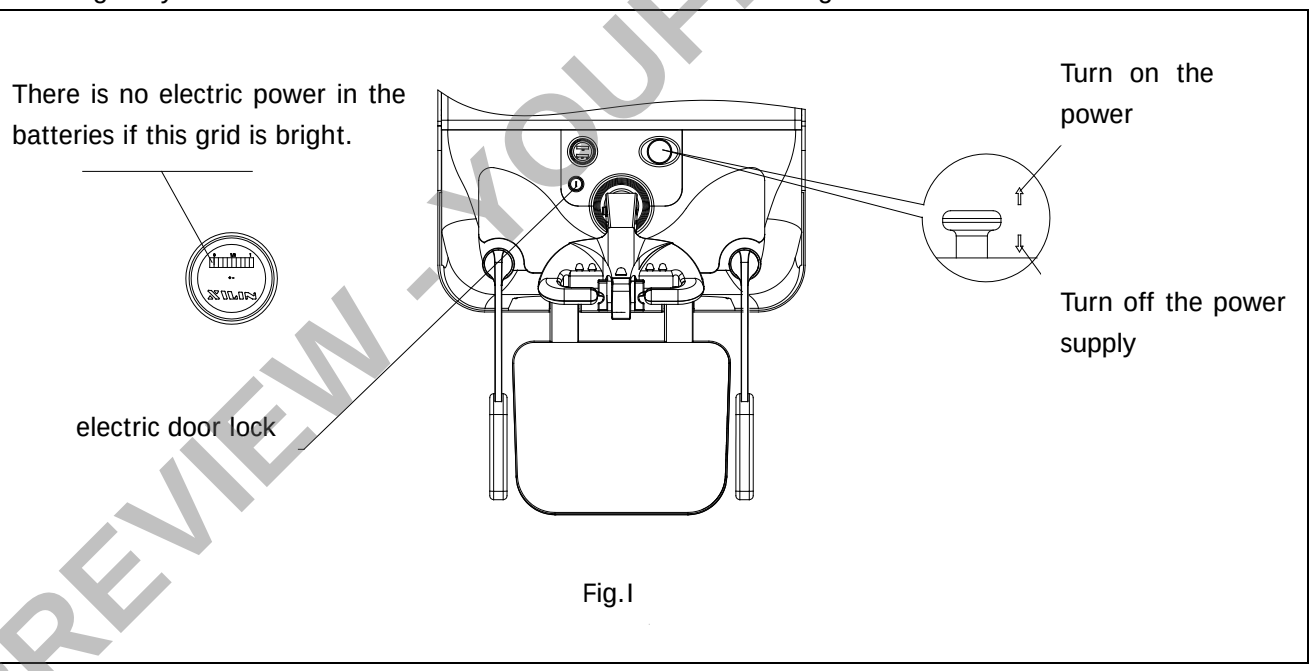
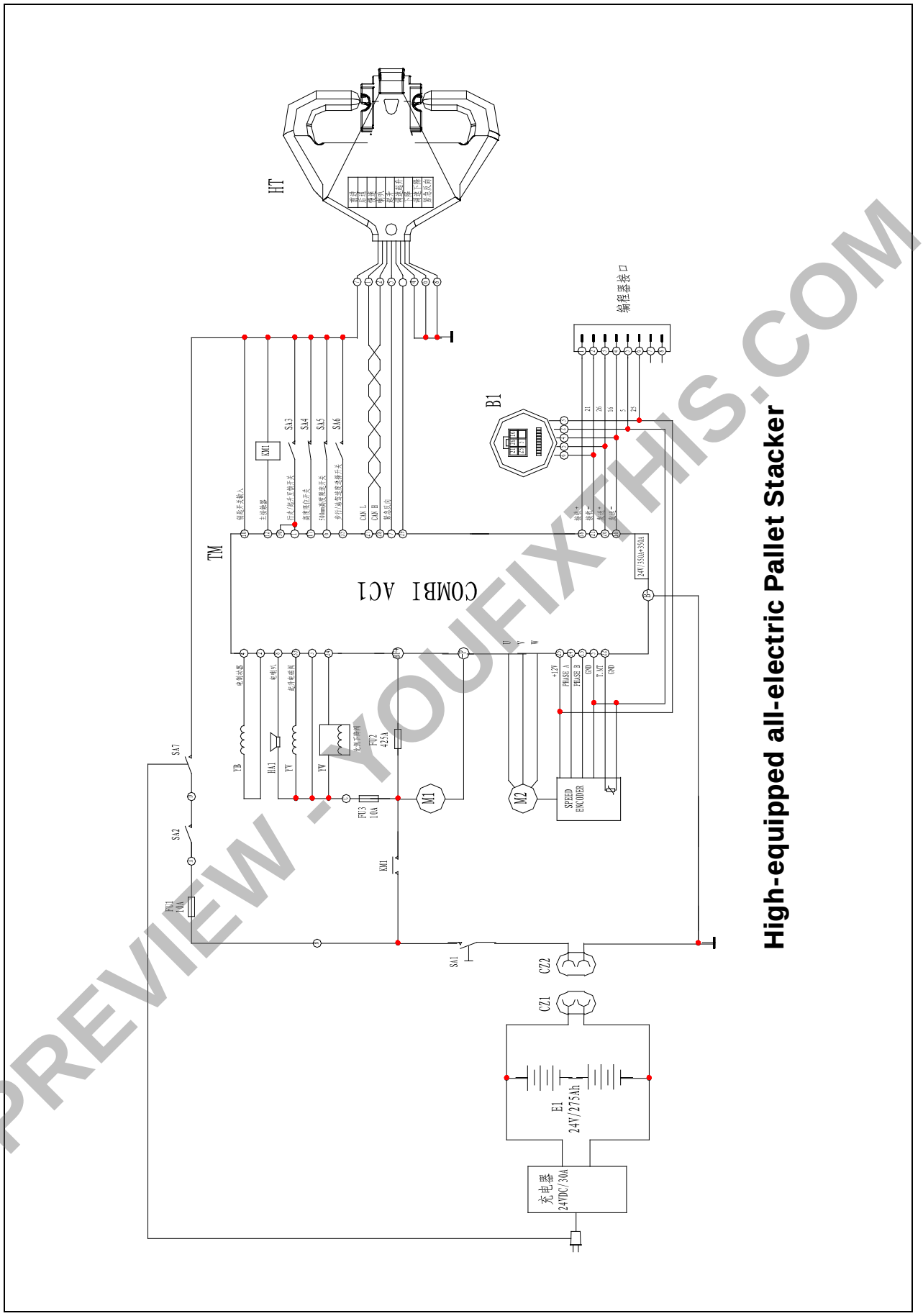


Fig.I

5. 1. 3 Check if the truck brake is normal. Check the lifting, dropping, forward and backward traveling of the truck to see if the actions are normal. Check if the emergency reverse action of the truck is normal with the method indicated in Fig.II:

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