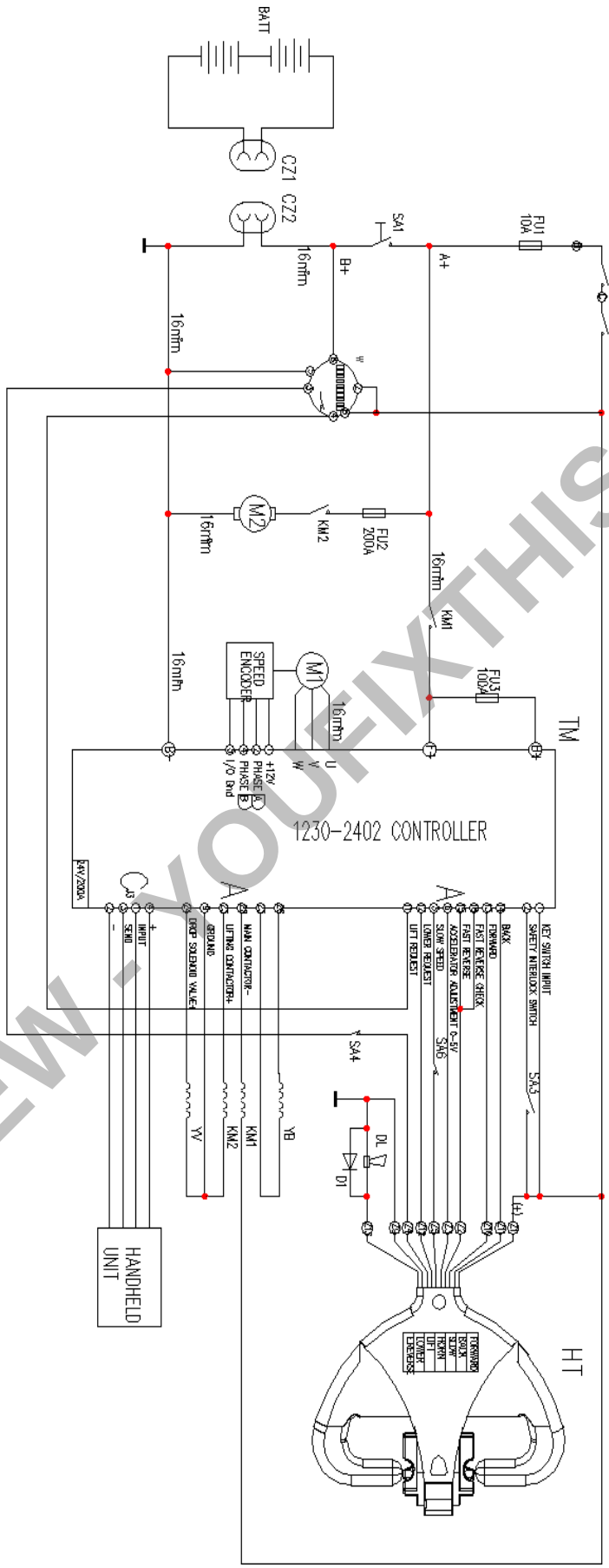
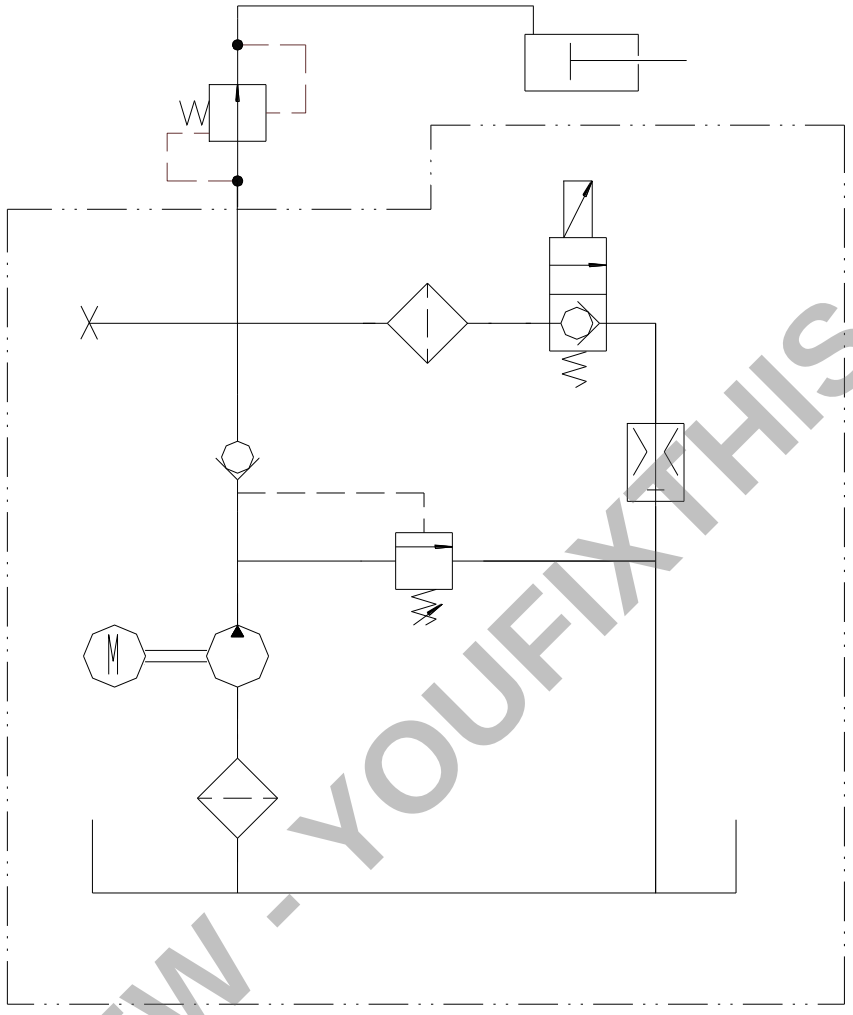


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Hydraulic Principle Diagram

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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.

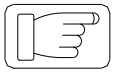
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11．Replacement of storage battery

The replacement procedure of storage battery is as follows:

1. Open the side door of storage battery and take it down.
2. Pull down the socket connector of storage battery from the truck.
3. Pull out the pin of battery case to loosen the battery.
4. Pull out the storage battery from the side way and take the storage battery away with special car or using hoisting method.
5. The mounting method of putting the storage battery back into the battery pack is opposite to the above procedures.



Notice

Handle the storage battery gently during hoisting and transportation of the battery. Otherwise it will cause damage to the battery or bring danger to human body.

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	Tighten the bolt or repair

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9．4 The inspection according to the need

Clean the truck
Inspect and screw down each fastener
Inspect the damage state of wheels

9．5 The 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 be 1.28g/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.

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 & 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, and 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	11	Electrolyte	Liquid level，specific gravity and cleanness

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14. Lists of accessories, spare parts and vulnerable parts

14.1 Lists of UTILEV （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	Fuse	Electric equipment	10A	2	
3	Fuse	Electric equipment	100A	1	standard
4	Fuse	Electric equipment	180A	1	
5	Sealing ring	Oil cylinder	UHS40	1	
6	O type sealing ring	Oil cylinder	50X3.55	1	
7	O type sealing ring	Oil cylinder	23.6X3.55	1	
8	Composite ring	Oil inlet of cylinder	D14	1	
9	Dustproof ring	Oil cylinder	DH40	1	

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"

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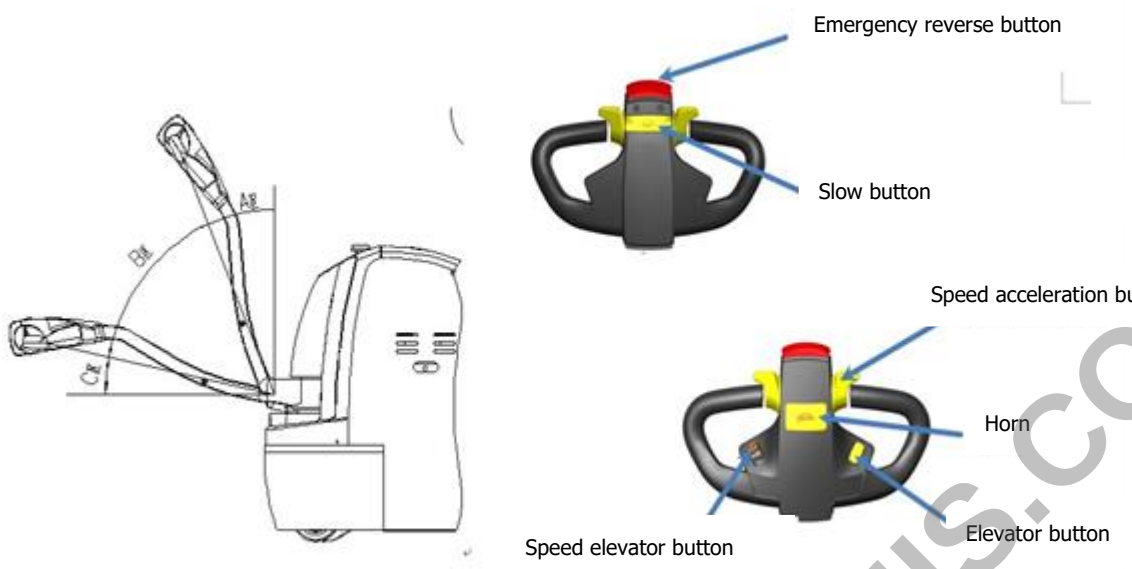


Fig.II

Warning

DO NOT turn the accelerator knob quickly to speed up the stacker abruptly during loads transportation.

Move the control handle to division A or division C as indicated in Fig.II and press the rise/lowering button on the control handle to see if the lifting and lowering of the fork is normal. Then turn the control handle to division B as indicated in Fig. II, slowly start the truck and press the handle to the horizontal position to check that whether the truck can travel and brake normally.

Move the control handle to division B as indicated in Fig.II, press the emergency reverse button on top of the control handle to check that whether the truck can travel backward normally.

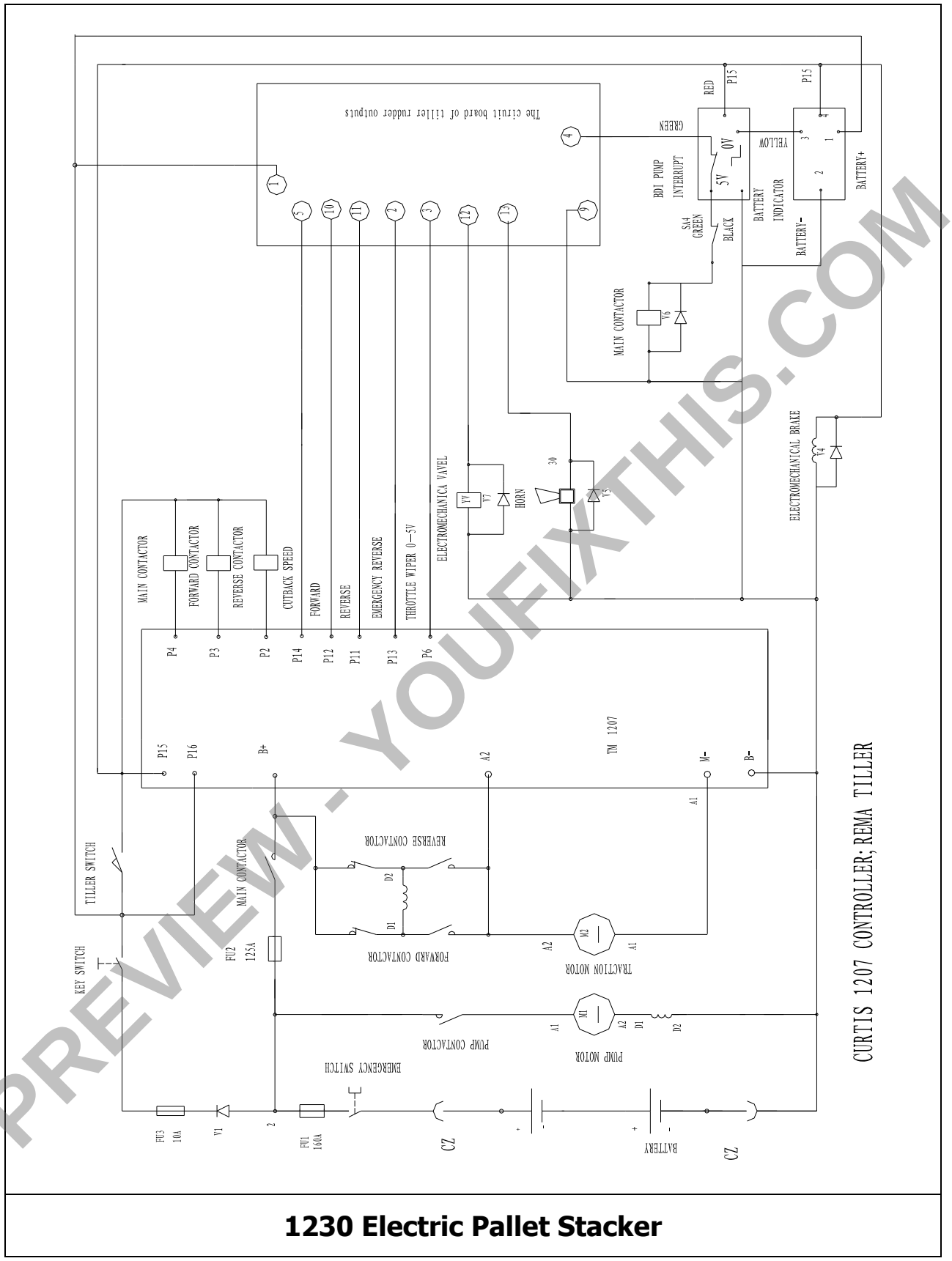
After the above check, if there is no failure in the truck, it can be put into operation; if there is some failure, please repair it at once. DO NOT to use trucks with problems.

5．2 In operation：

5．2．1 Accelerator knob: The accelerator knob is used for controlling traveling direction and speed of the stacker. When it is for the traveling operation, turn the operation handle to B area indicated in the above diagram. When the handle is in A or C area, the stacker is in a power-off status, and can not travel. When the operation handle is in B area and the accelerator knob is turned in one direction, the stacker will travel in that direction. While the accelerator is turned in another direction, the stacker will travel in another direction. Meanwhile the bigger the turning amplitude is, the faster the truck will travel.

Note: A side-magnetic brake is installed on the shaft end of the driving wheel motor and there is a cam and an inching switch installed on the rotary shaft of the rotary arm. Only when the rotary arm is at 45°±35°(as indicated in Fig. II), is the stacker ready to be turned on and used. Larger or less than the angle, the stacker will be powered-off and braked. In that case, the stacker can lift loads. When lifting loads, the stacker cannot travel. As indicated in Fig. II, when the operation handle is in division A or division C, the stacker can only lift or lower but not travel; when the control handle is in division B, the stacker can travel as well as lift or lower. The operation position of the handle will not be specially described in the following descriptions, i.e. the stacker can only lift or

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