



عمران ساحل

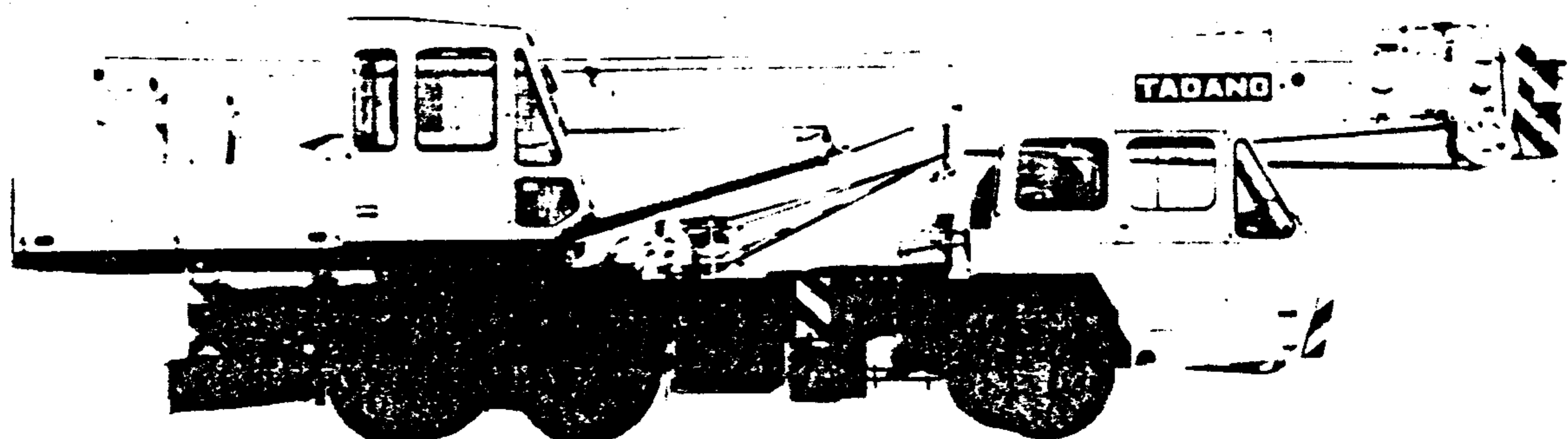
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# Operation Manual

## Crane

### TADANO TL200



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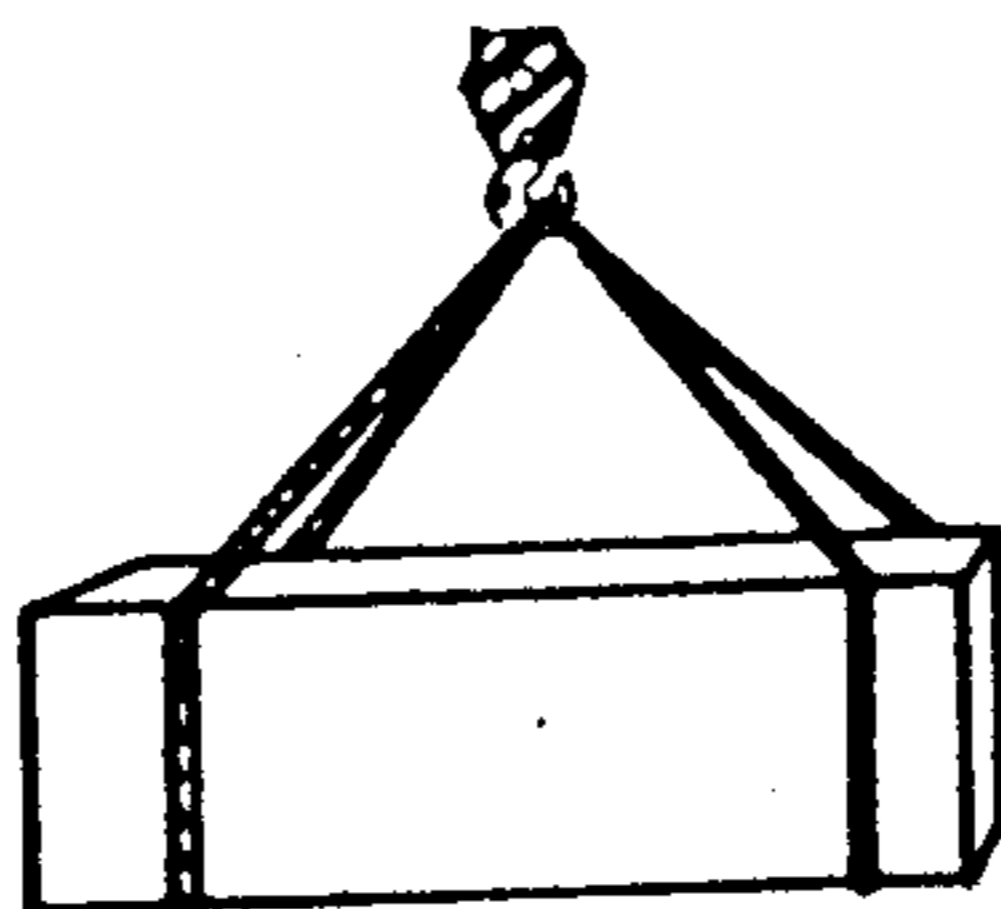
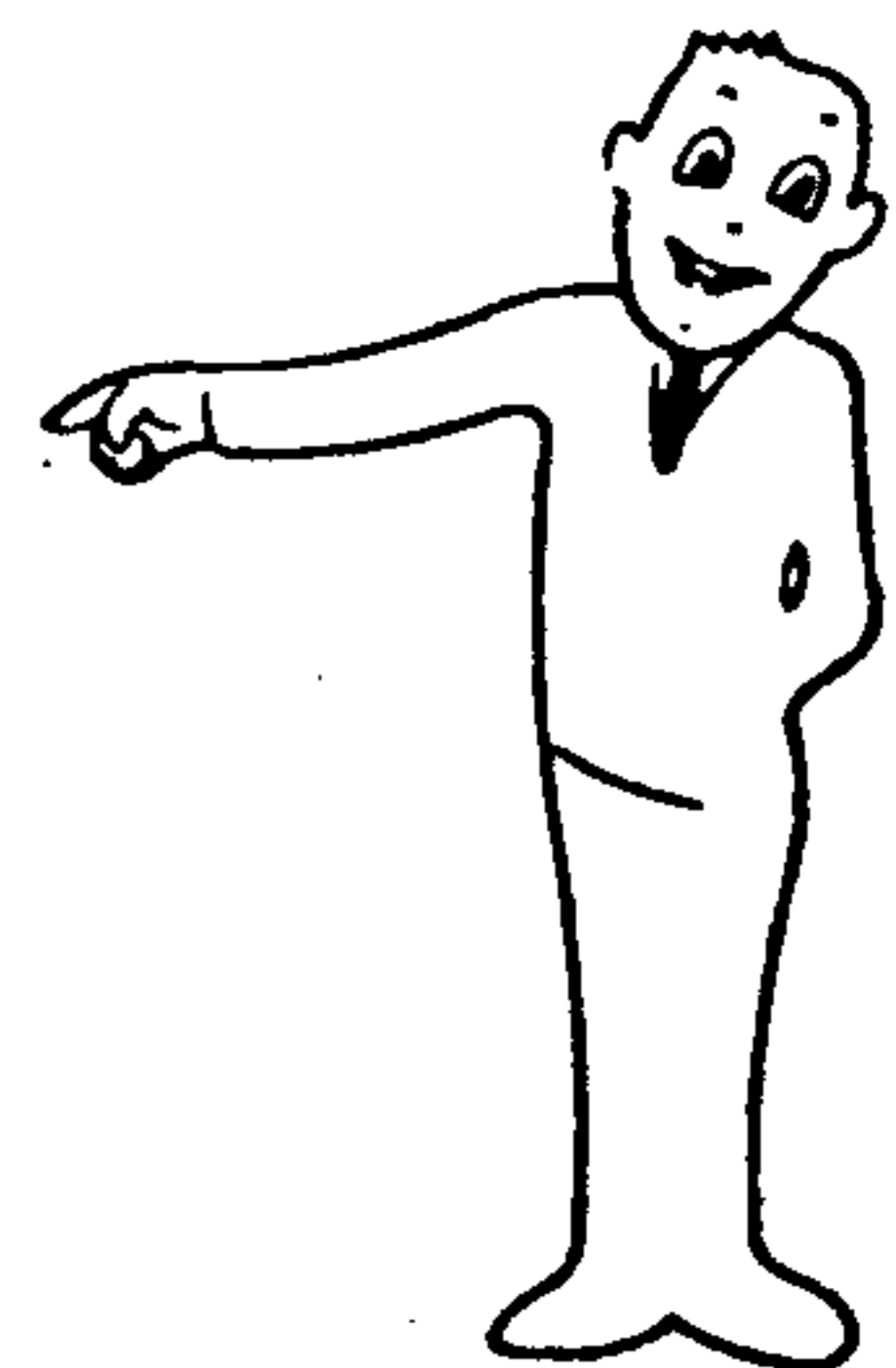
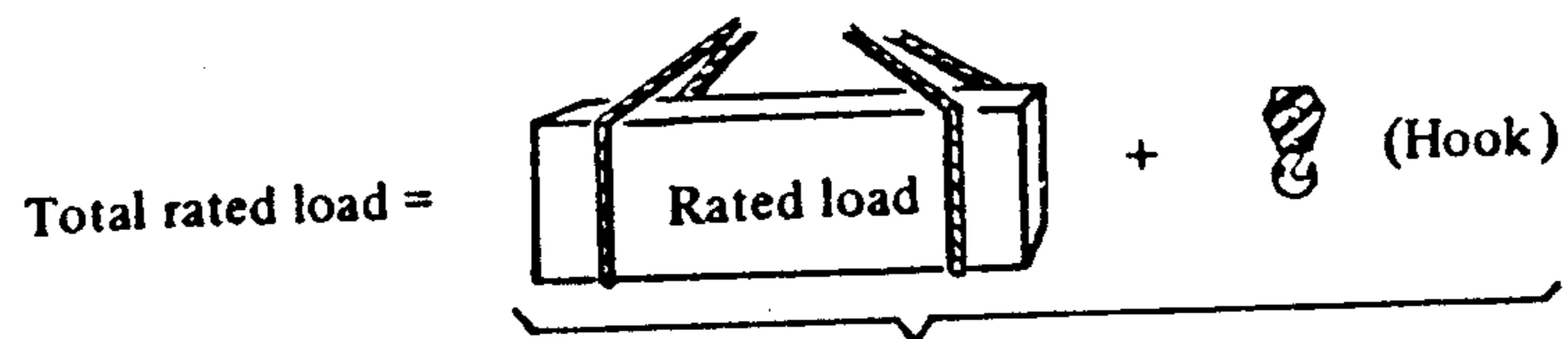
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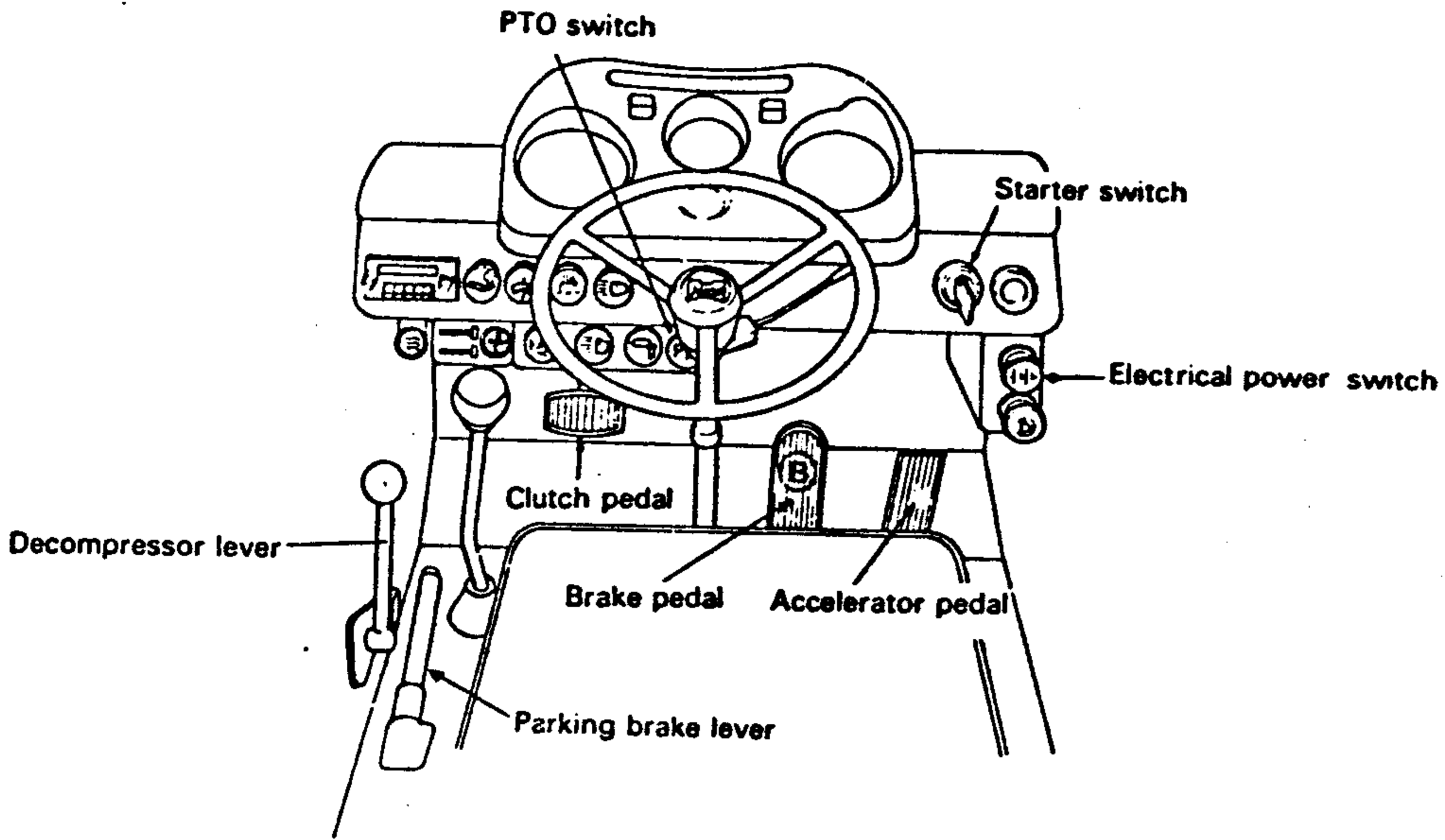
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**3 Total rated load**

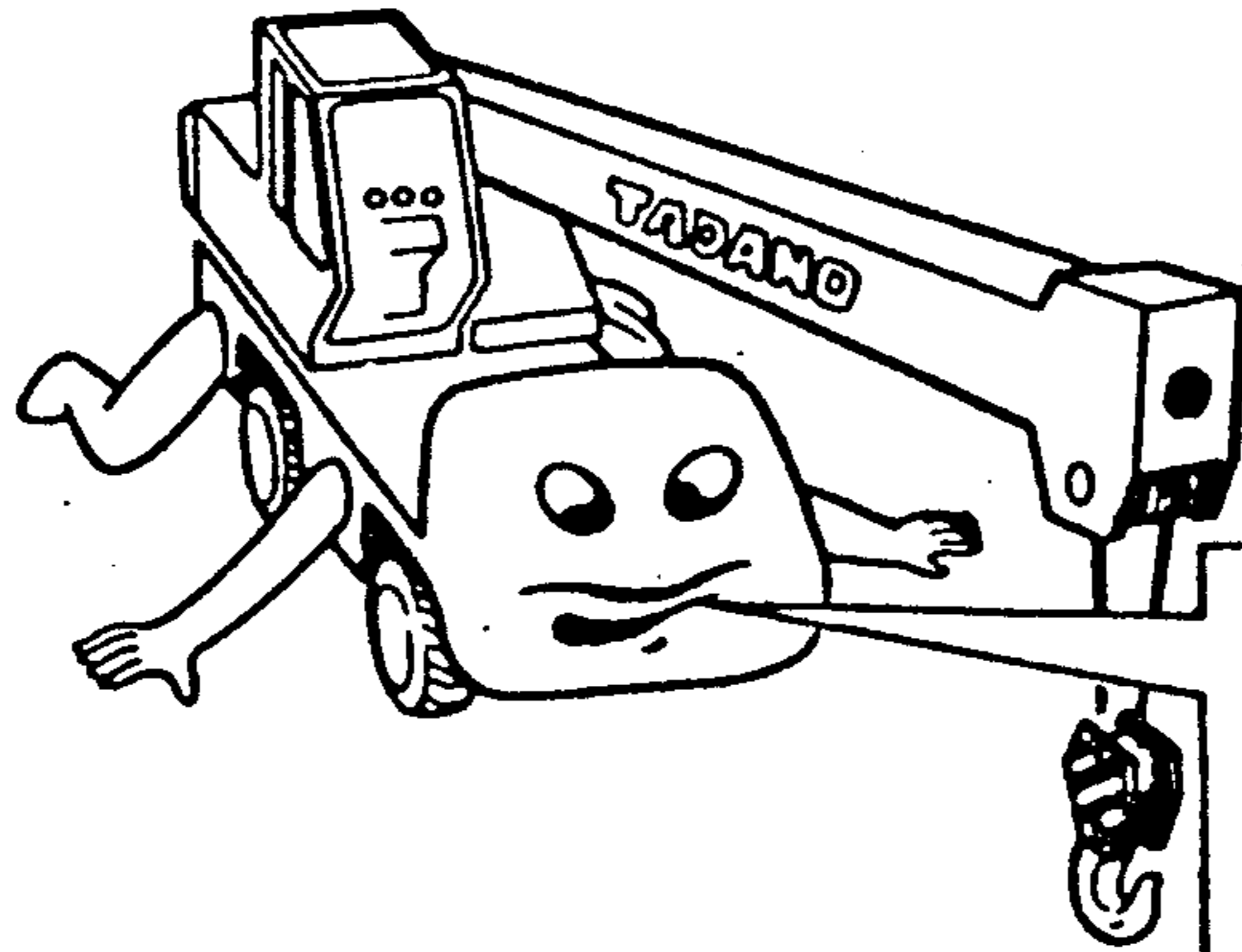


□ HINO



NOTE: Arrangement of controls may change due to minor modification of the carrier.

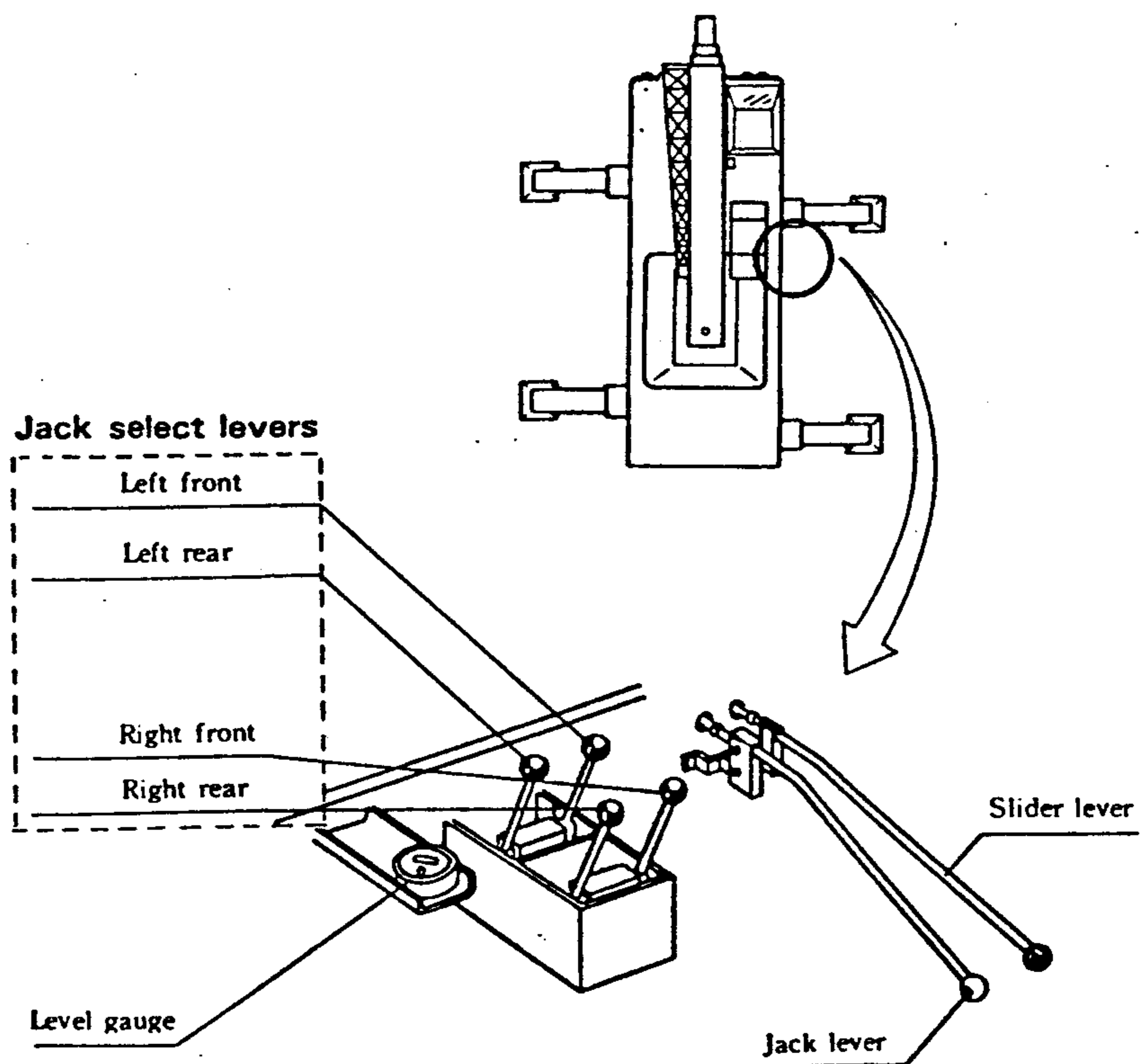
## OPERATING OUTRIGGERS (H-configuration outriggers)



### NOTES ON OPERATION

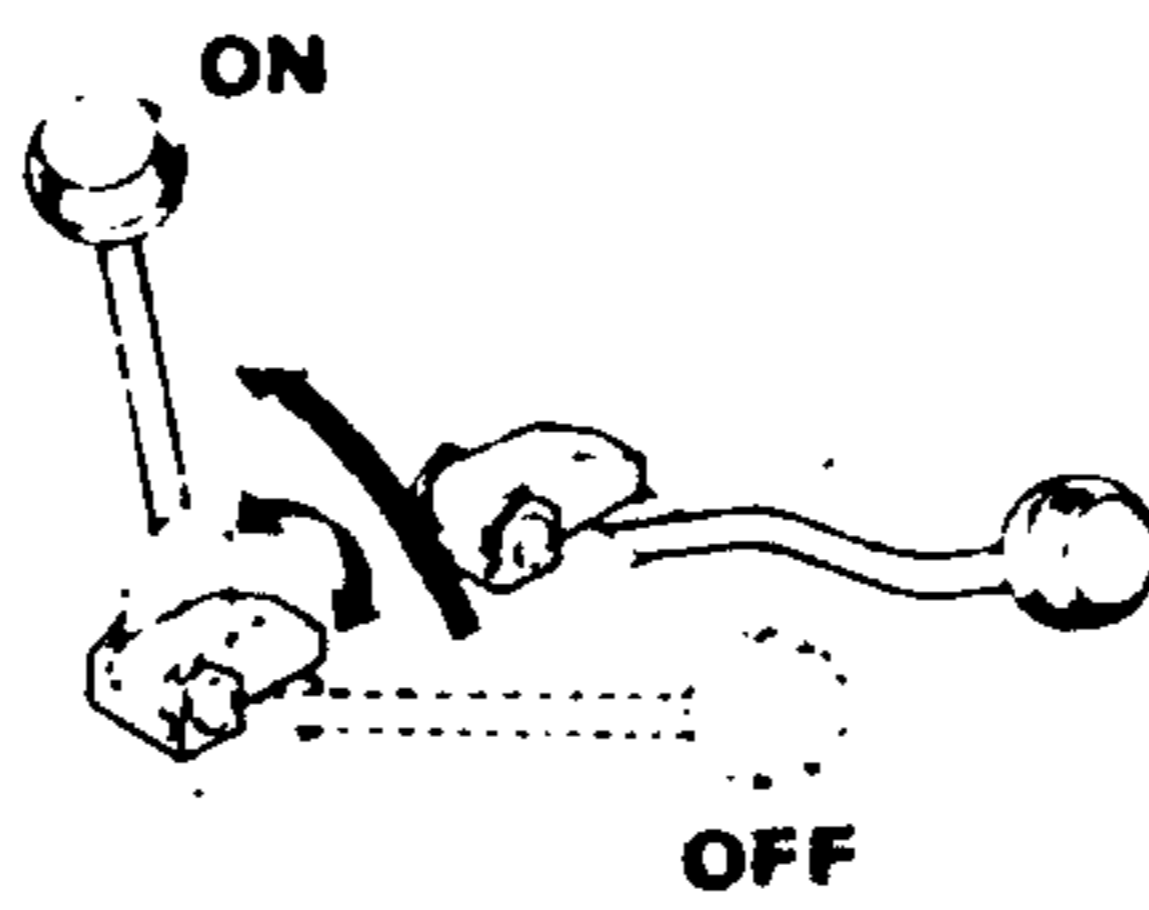
1. When setting up the crane, use fit wood blocks in accordance with ground conditions.
2. Keep the tires off the ground.
3. Extend the sliders fully. It is prohibited to use the crane with the sliders partially extended.
4. Before crane operation, make sure crane is set up level.

### □ CONTROLS

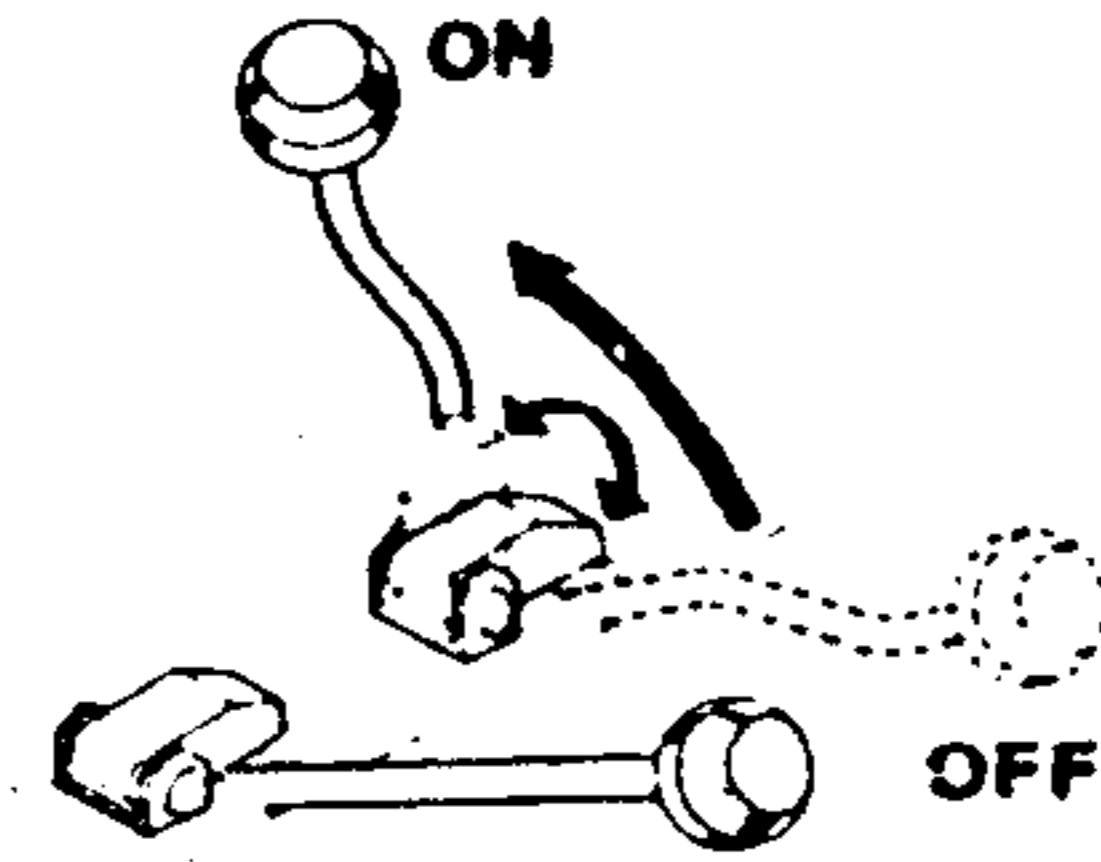


## □ ENGAGING AND DISENGAGING CLUTCHES

Main winch clutch lever



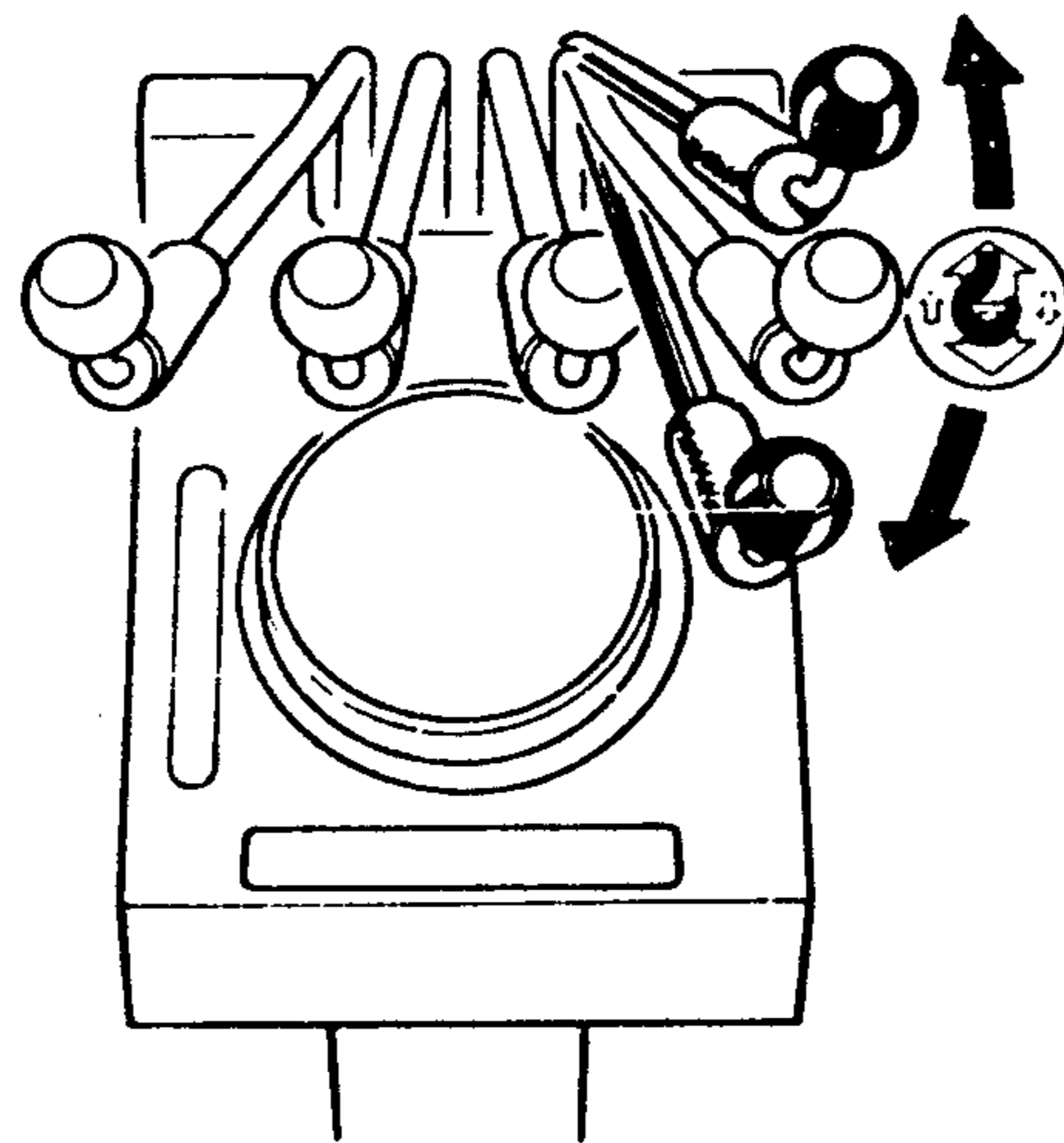
Auxiliary winch clutch lever



### NOTES:

1. Always apply the stopper to the levers in either engaged (ON) or disengaged (OFF) position.
2. After positioning the clutch lever to "ON", push the winch lever forward a couple of times to ensure clutch engaging.

## □ WINCH LEVER



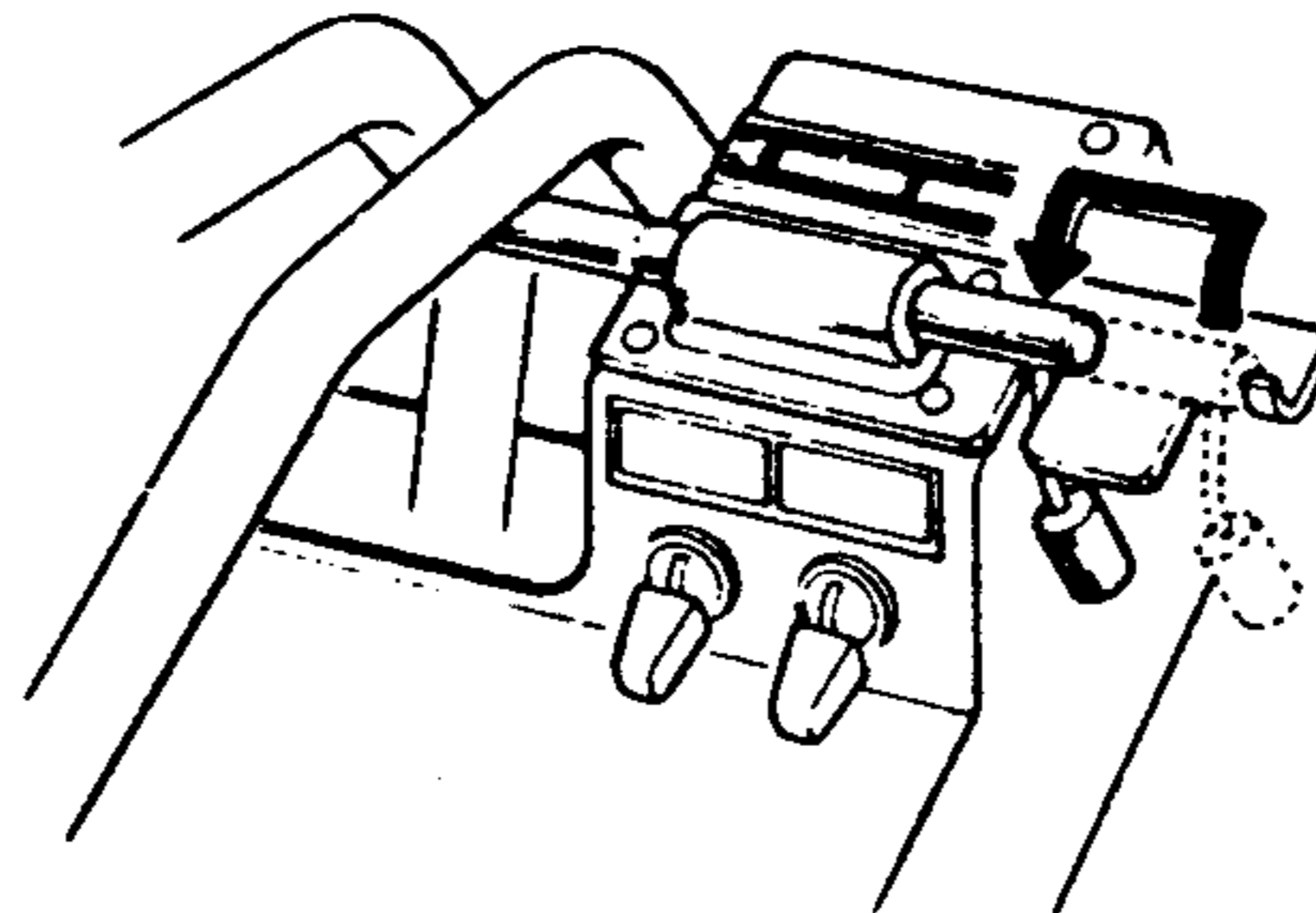
Push (winch down)

Neutral (stop)

Pull (winch up)

### NOTES :

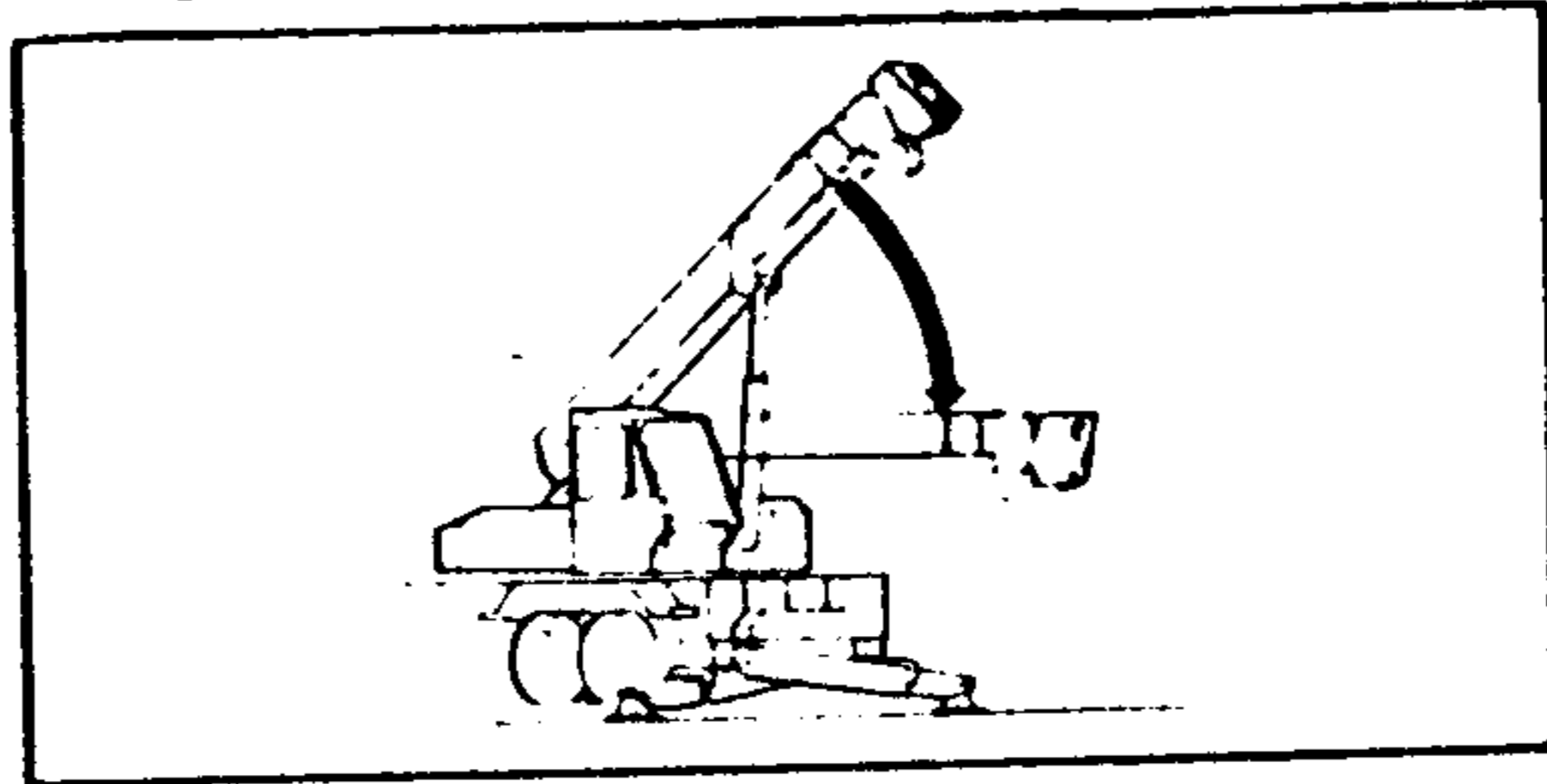
1. Return by hand.
2. Winch lever should be locked with the stopper while the crane is travelling and while the winch is not used.



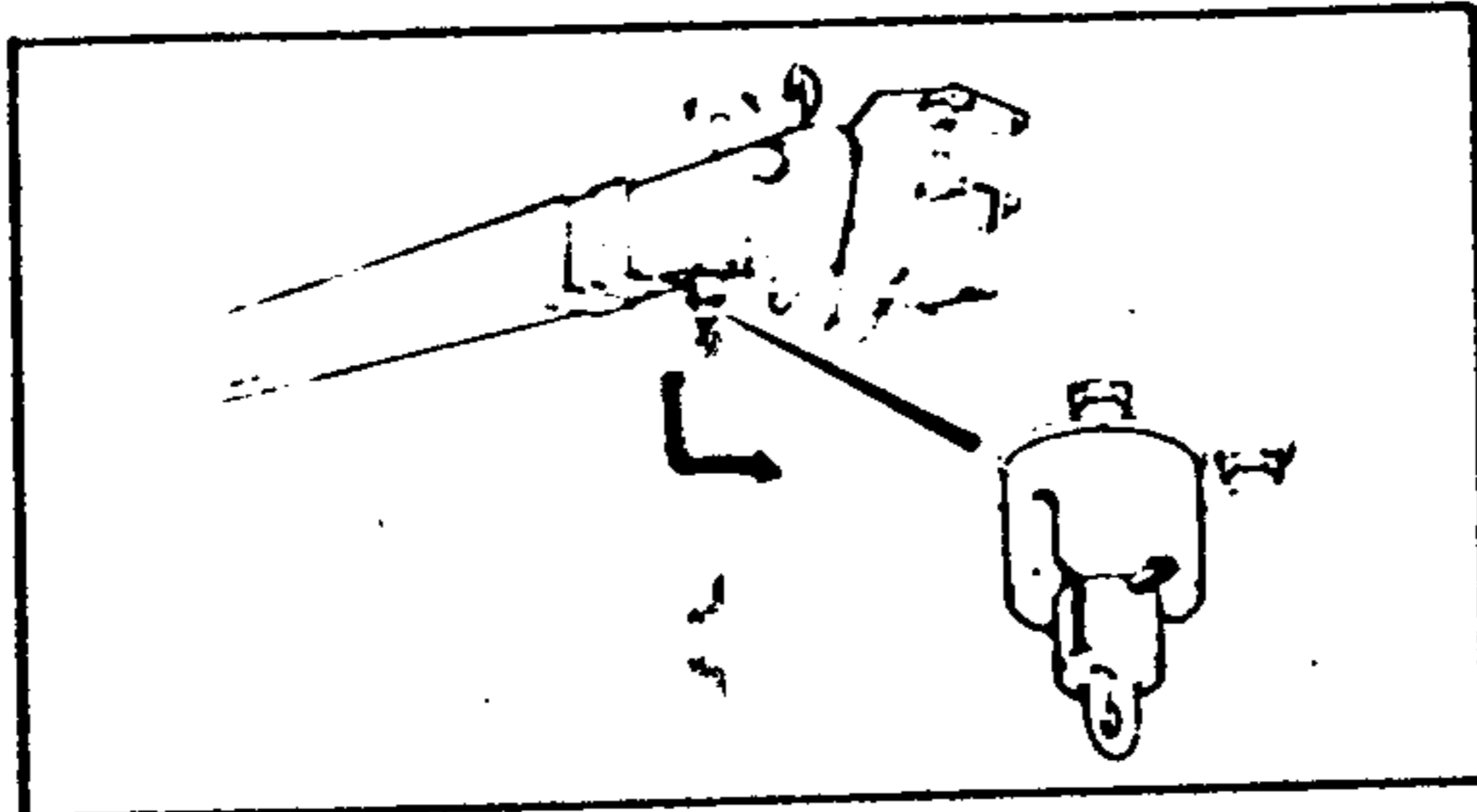
□ WITH TOP BOOM SECTION EXTENDED

■ BOOM EXTENSION

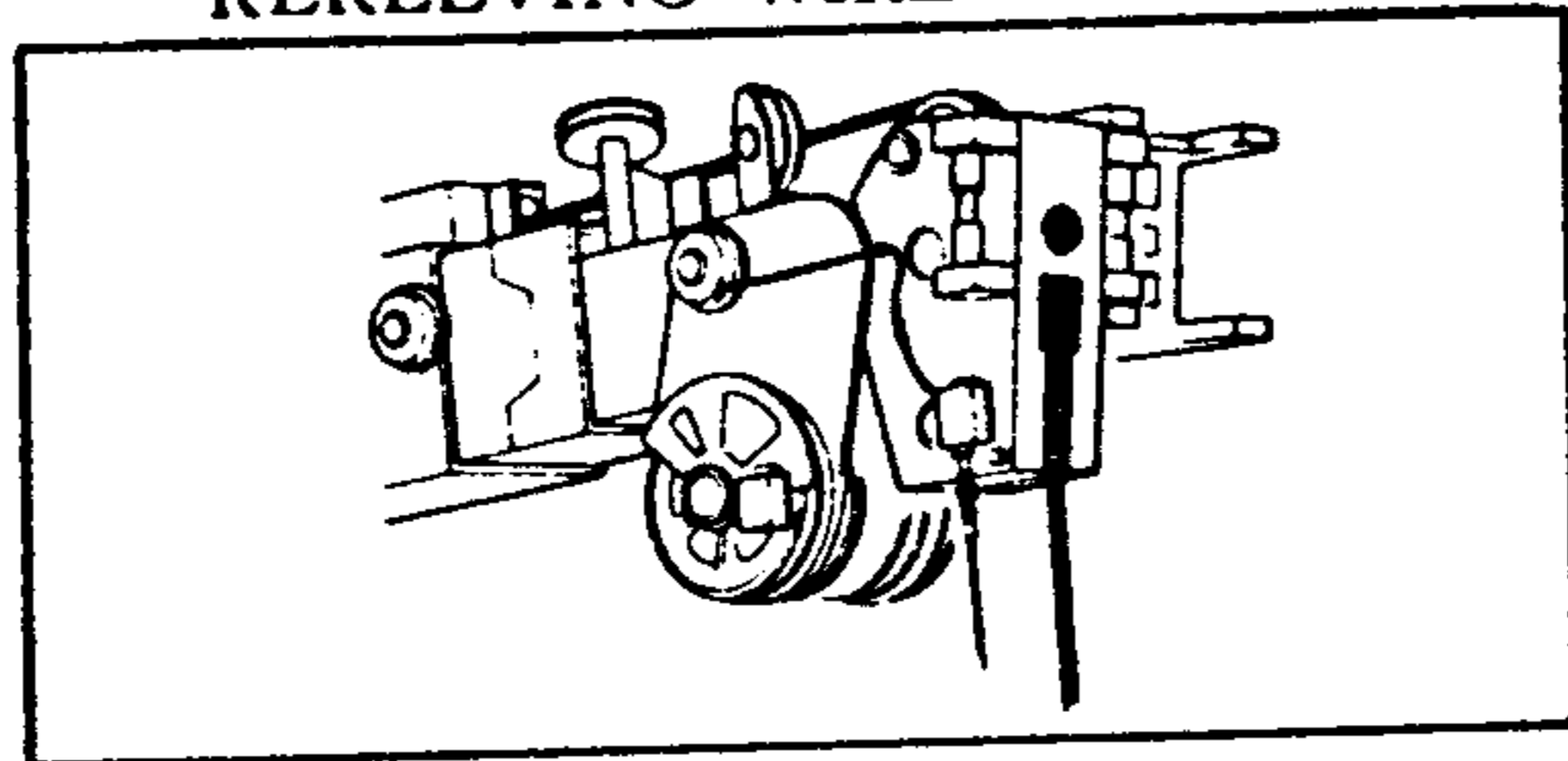
- (1) Retract all the boom sections and lower the boom to the horizontal position.



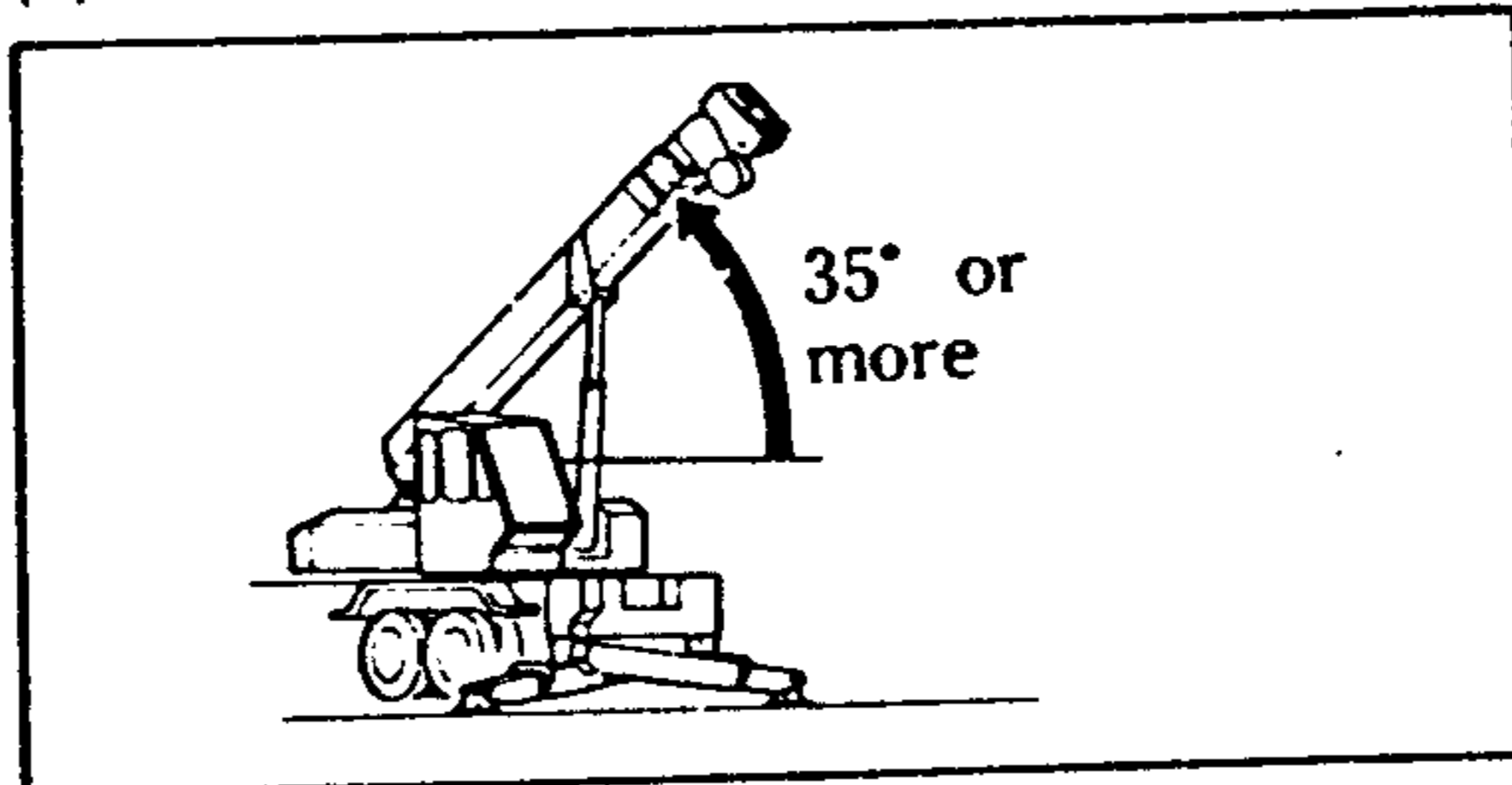
- (2) Pull down the set pin with the handle, turn it by 90°, and put it in the shallow groove. (The top section will get free from the third section.)



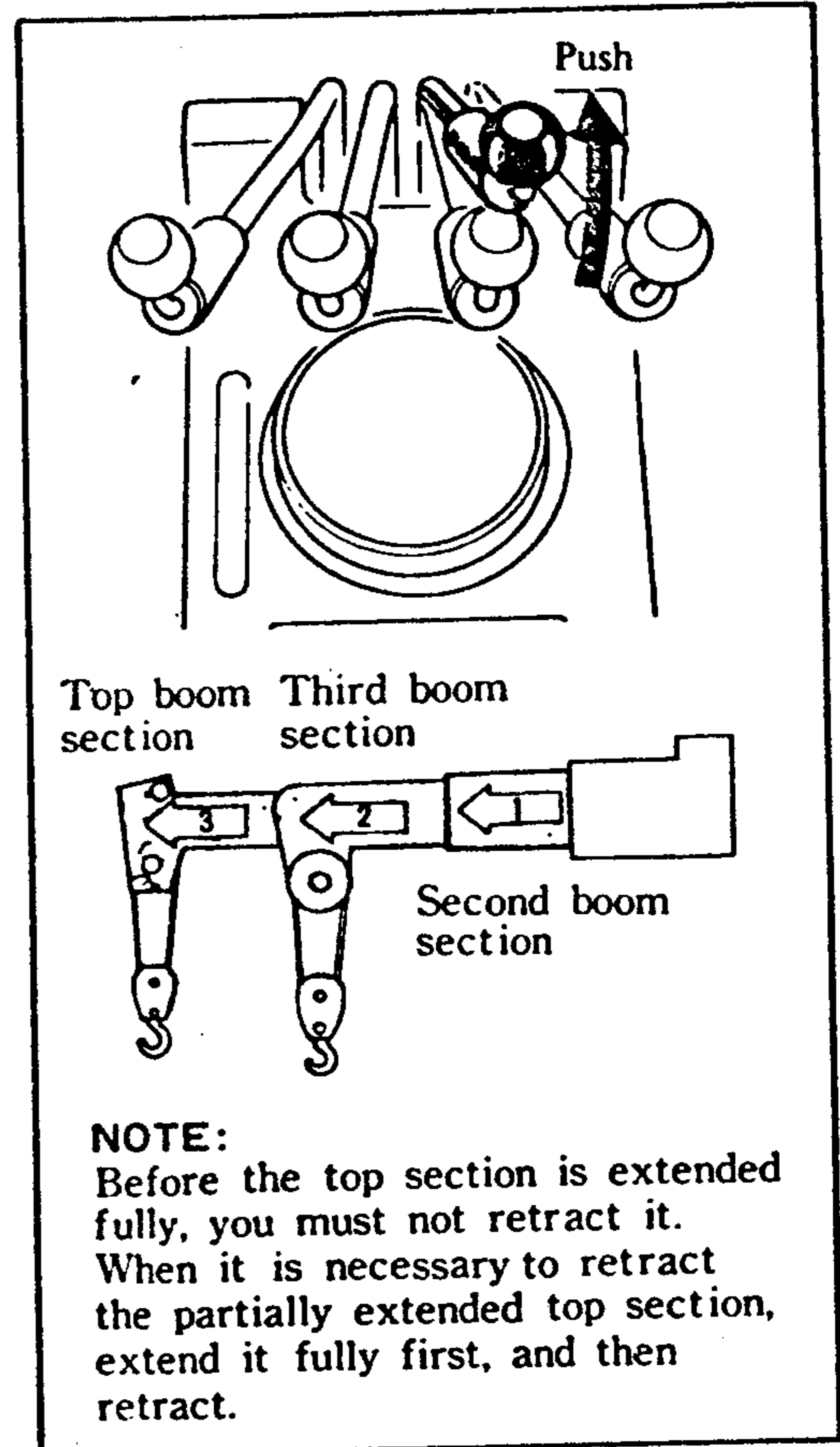
- (3) Pass the auxiliary winch wire rope on the top section. (The steps are given in "REEVING AUXILIARY WINCH WIRE ROPE ON TOP BOOM SECTION"; of "REREVING WIRE ROPE.")



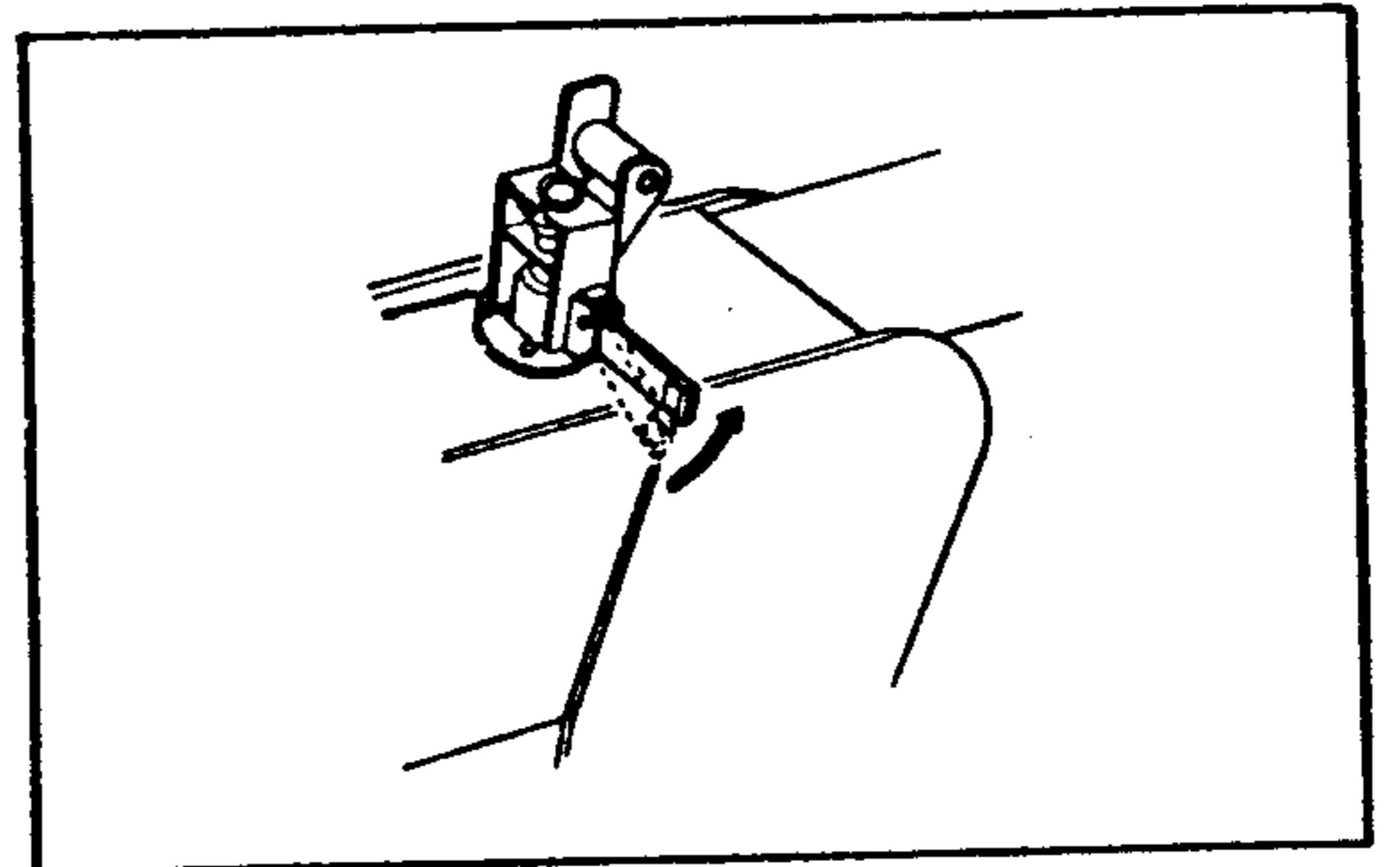
- (4) Raise the boom to 35° or more.



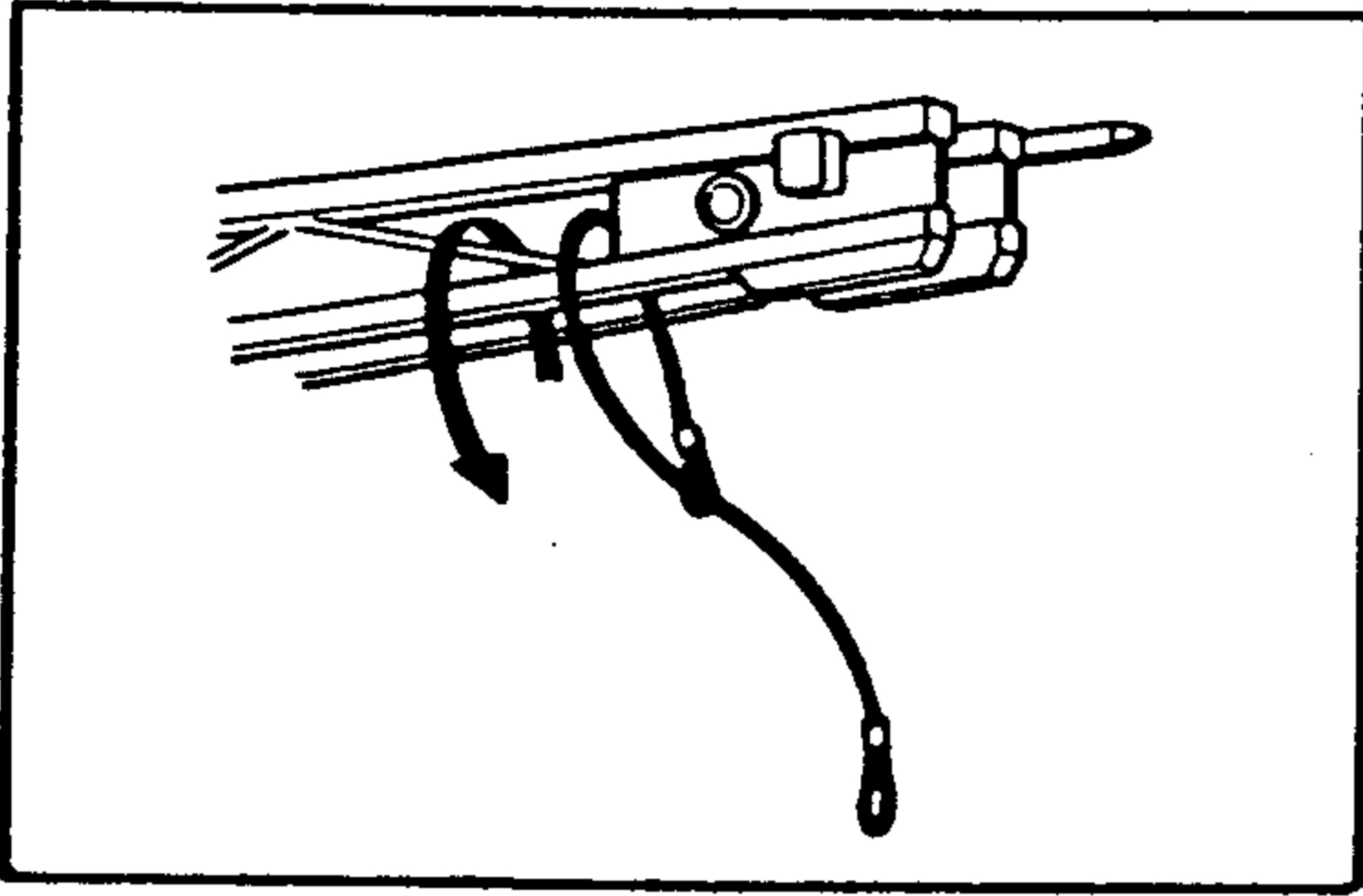
- (5) Push the telescoping lever forward. The boom will extend in order.



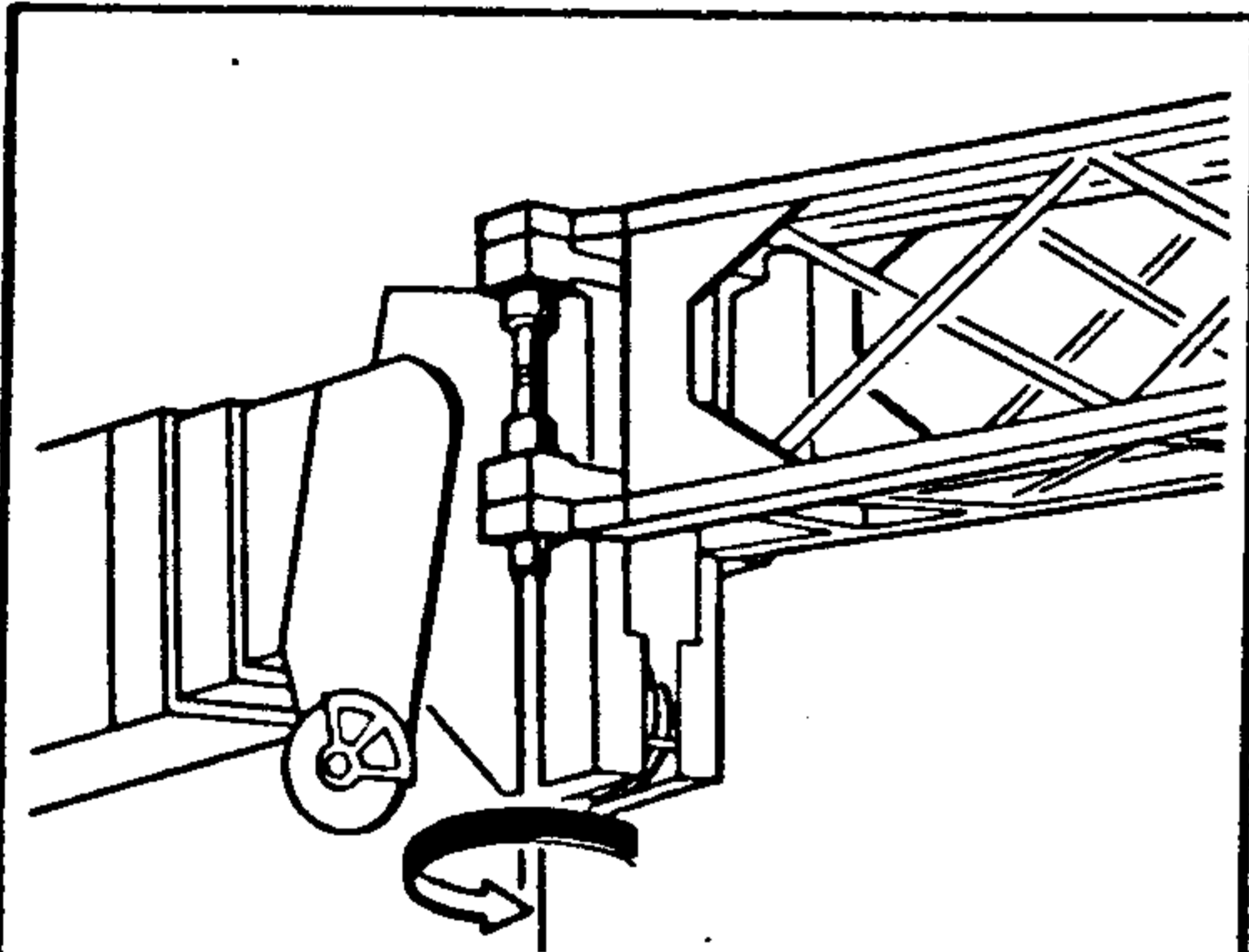
- (6) When the top section is extended fully, it is automatically fixed to the third section with the automatic pin. (The bar on the boom rises, indicating that the top section has been fixed.)



(7) Apply a wire rope to the top end of the jib.

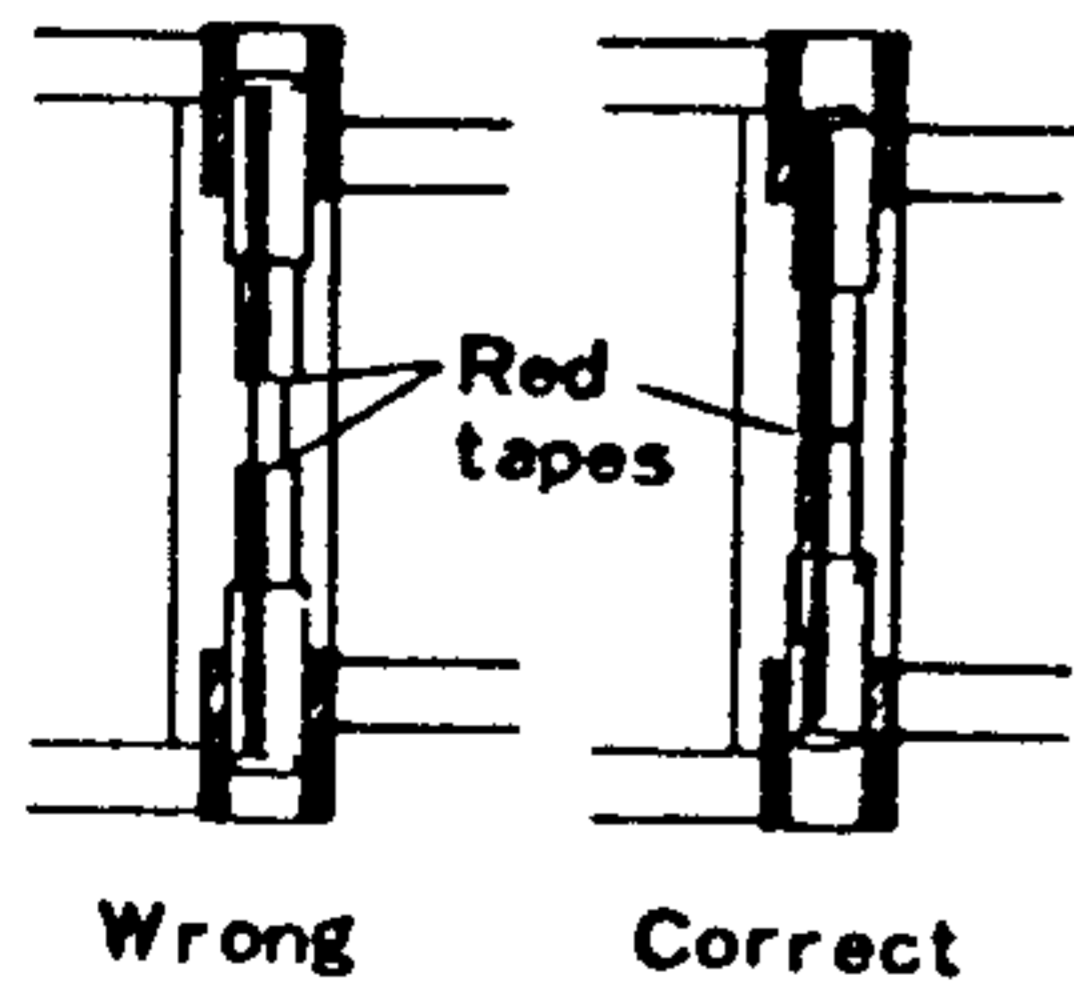
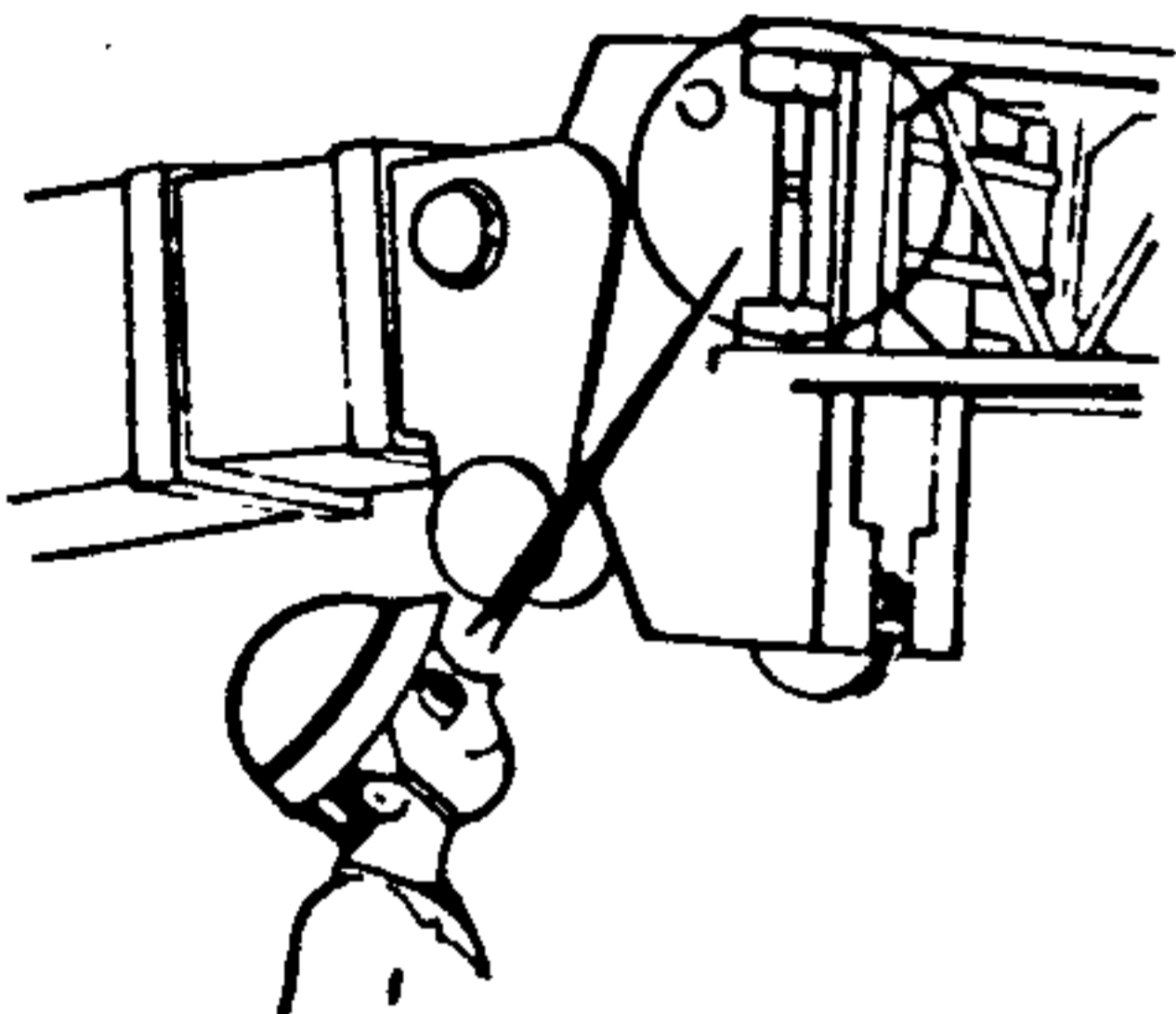


(8) Turn off the connecting pin.

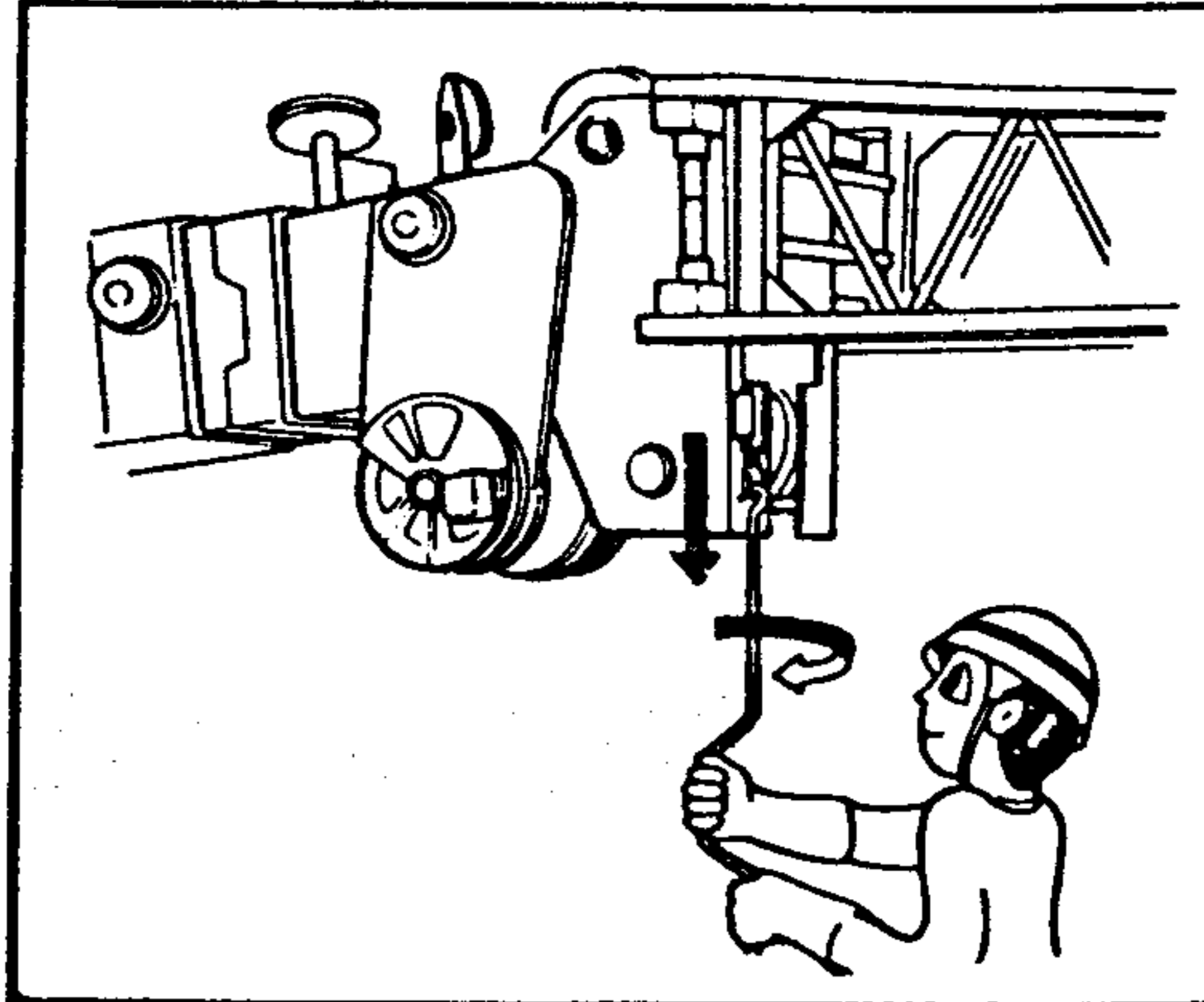


Turn the pin to the arrow direction about 26 rotations using the handle.

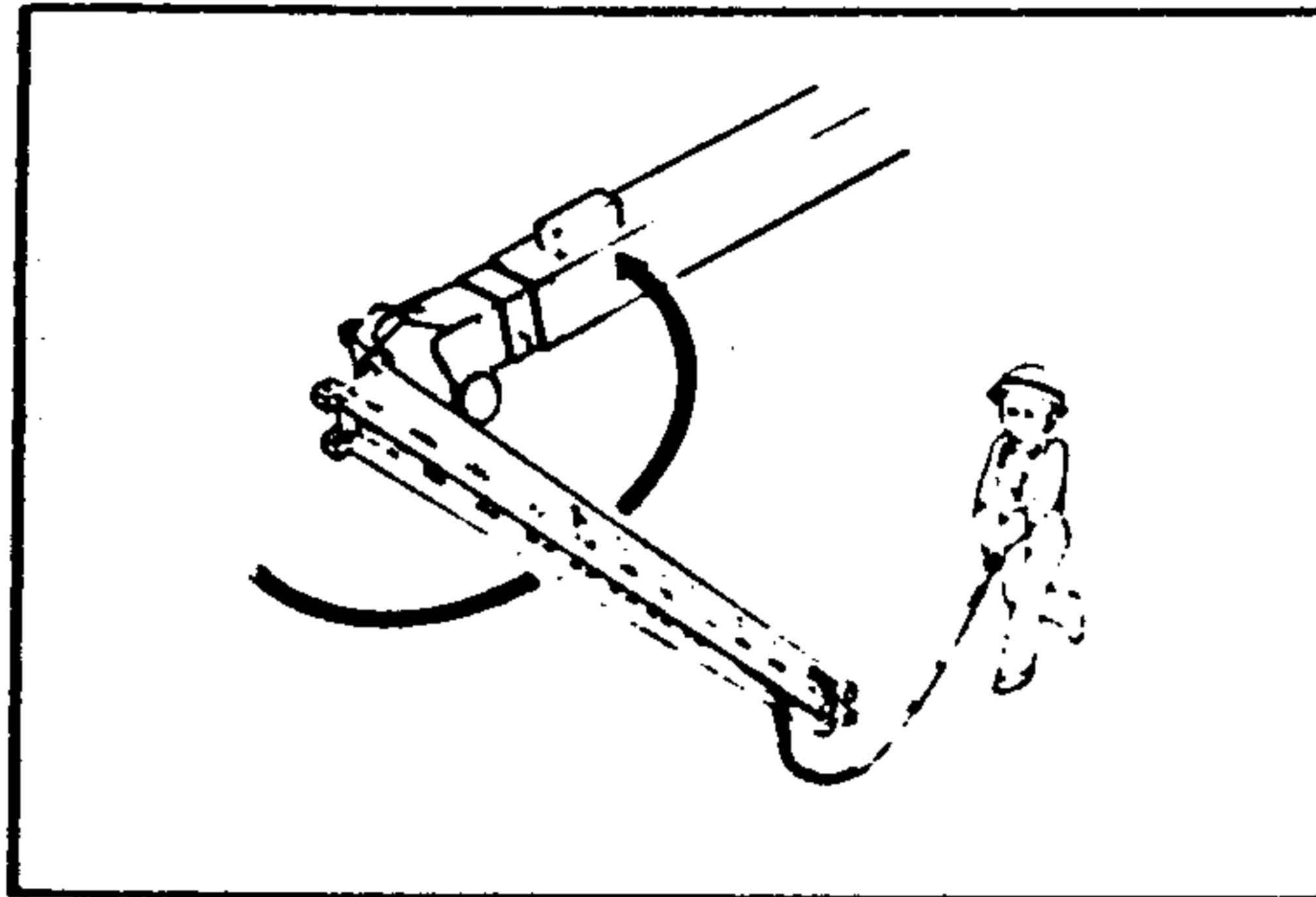
Make sure that the connecting pin has been completely drawn out.



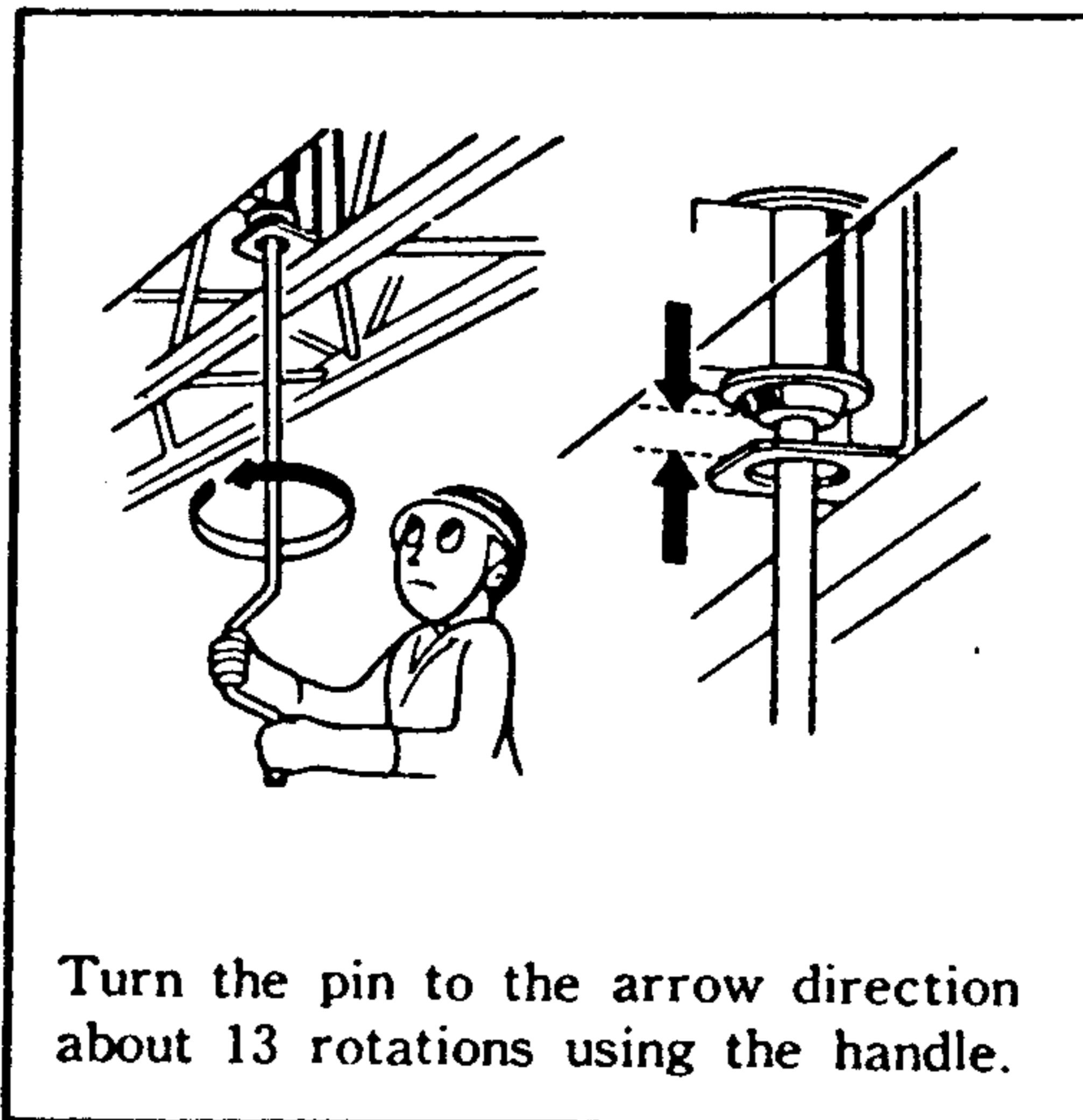
(9) Pull down the set pin and turn it so that the stopper is retained on the bracket.



(10) Fold the jib to the side of the boom. Retract the boom and the jib stopper enters the receiver. (Retract the boom by inching.)



(11) Insert the stowing pin and the jib will be secured to the boom.



Turn the pin to the arrow direction about 13 rotations using the handle.

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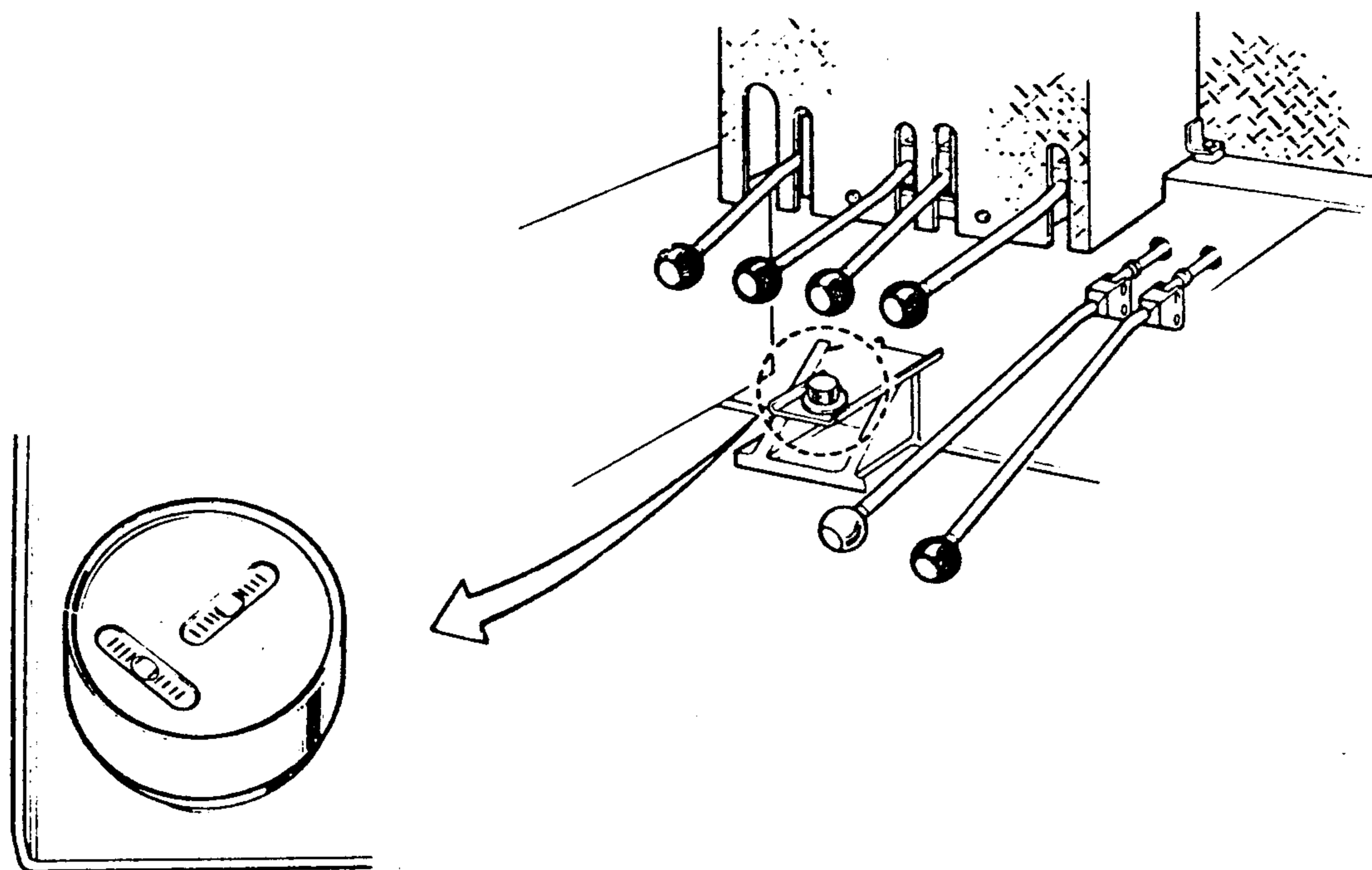


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## LEVEL GAUGE

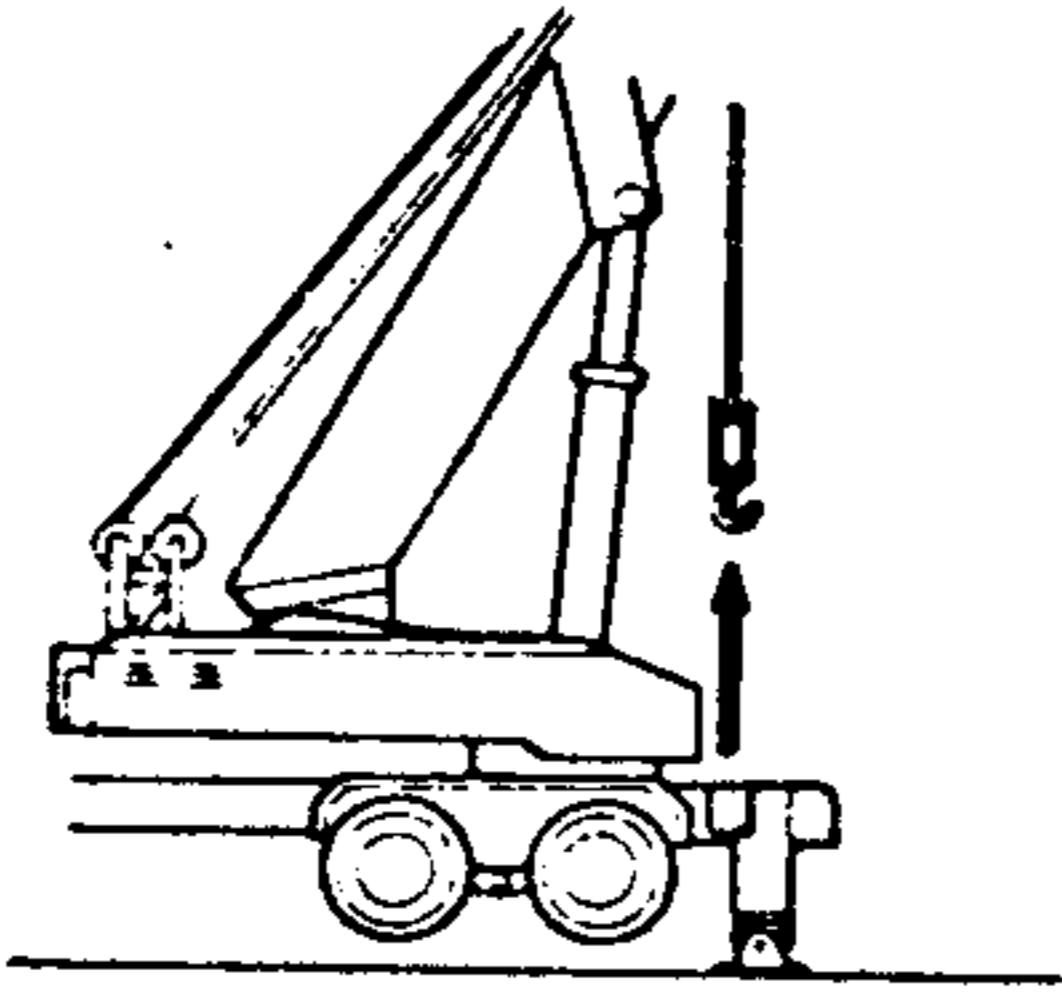
When setting up the crane, see this gauge to check the levelness.



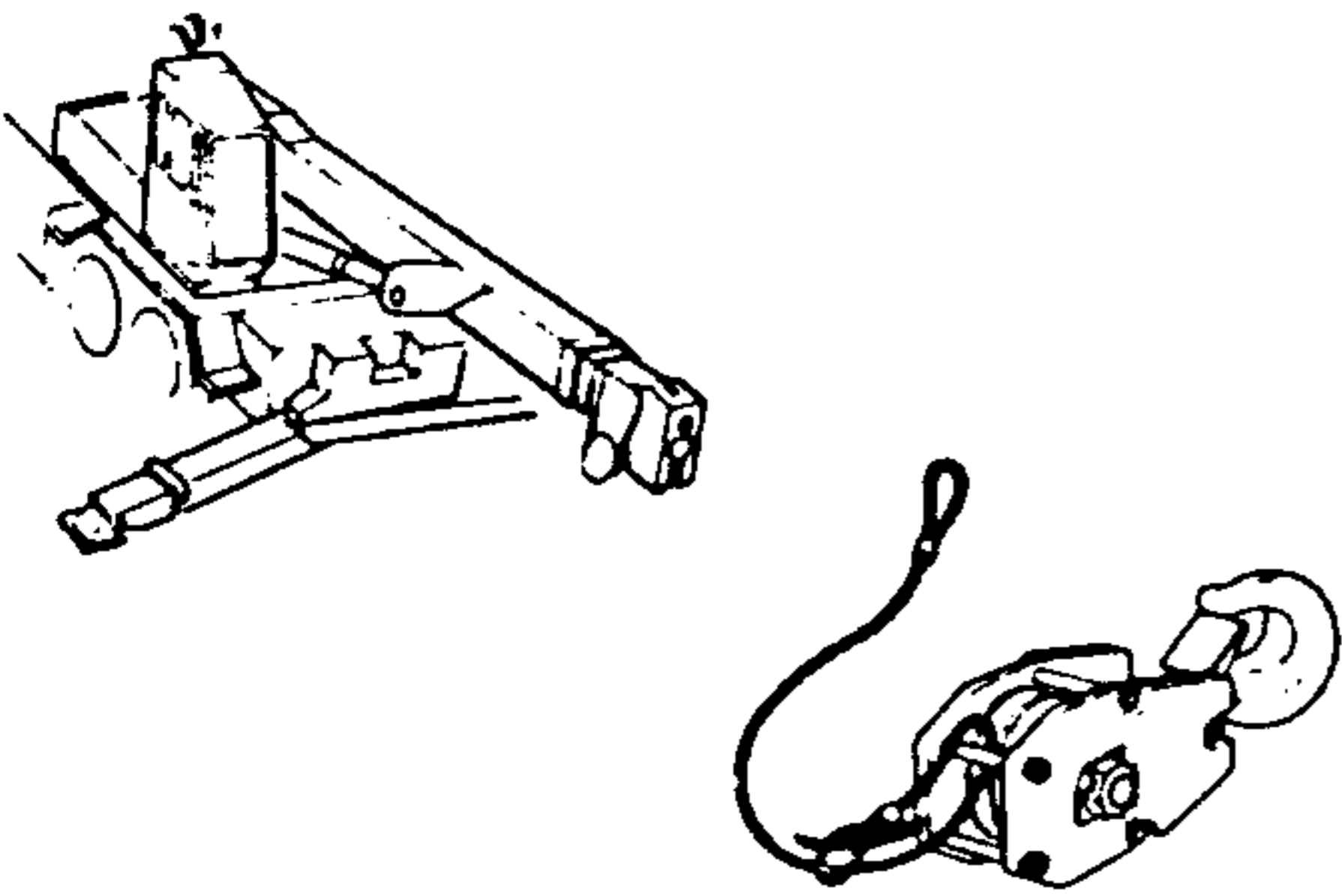
**REEVING AUXILIARY WINCH WIRE ROPE ON TOP BOOM SECTION**

The auxiliary winch rope, as well as the weight of the over-winding alarm device, is used for both the top boom section and the jib.

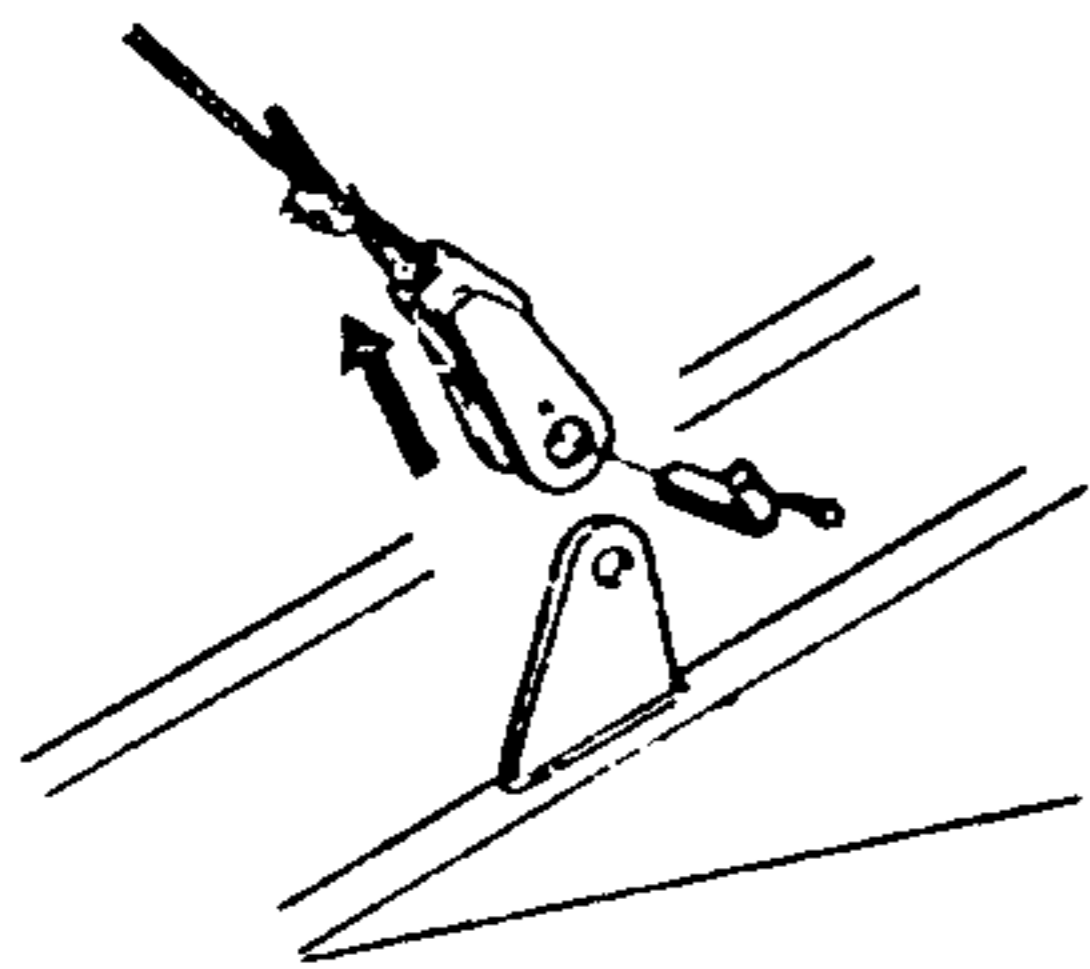
- (1) Attach one end of some proper rope to the main winch hook and the other end to the one-sheave hook in its hanger. Then, wind up the main winch wire rope and the one-sheave hook will be lifted off the hanger.



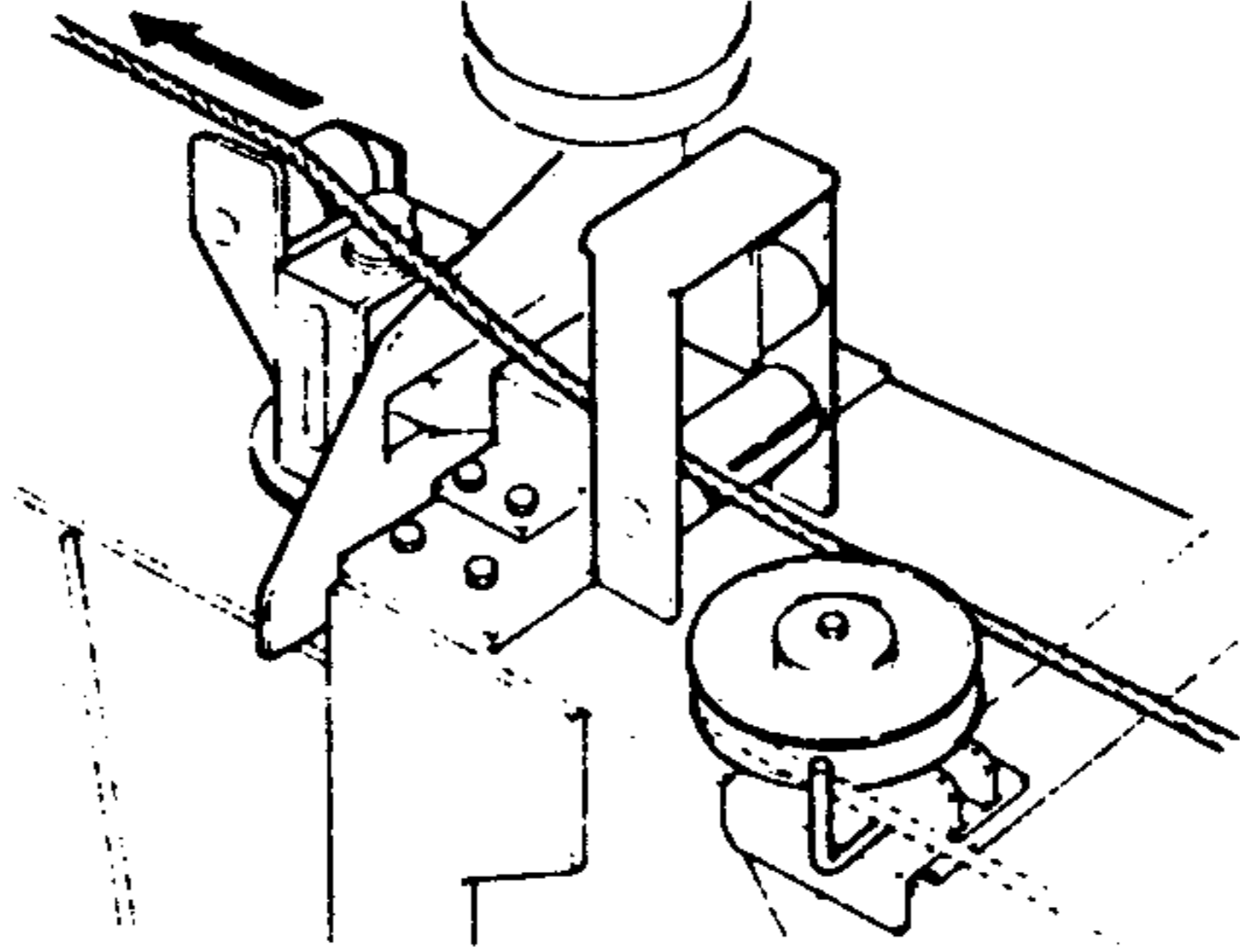
- (2) Lower the boom to 0° to place the hook on the ground, and remove the rope from the hooks.



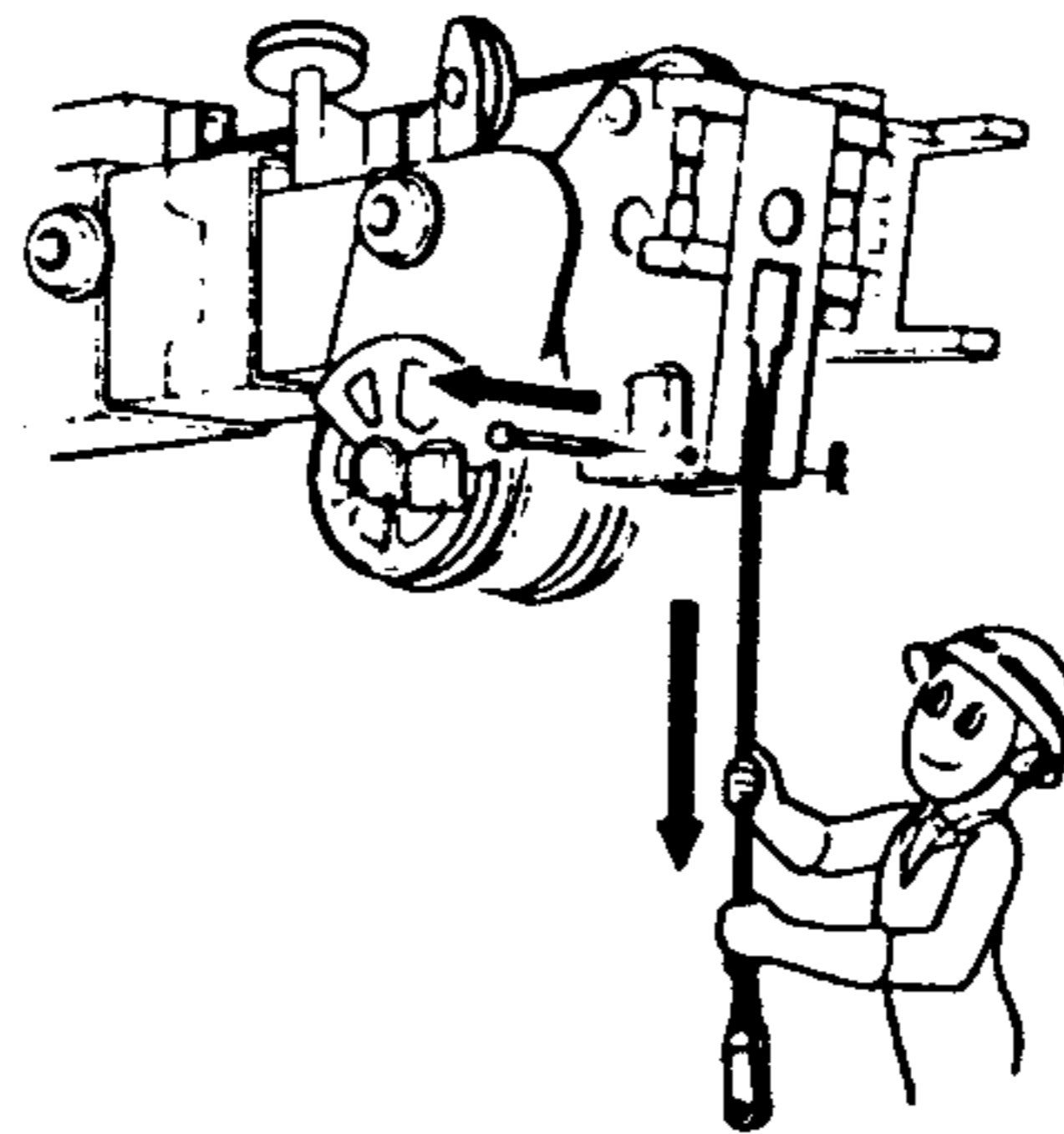
- (3) Remove the rope socket from the swing table.



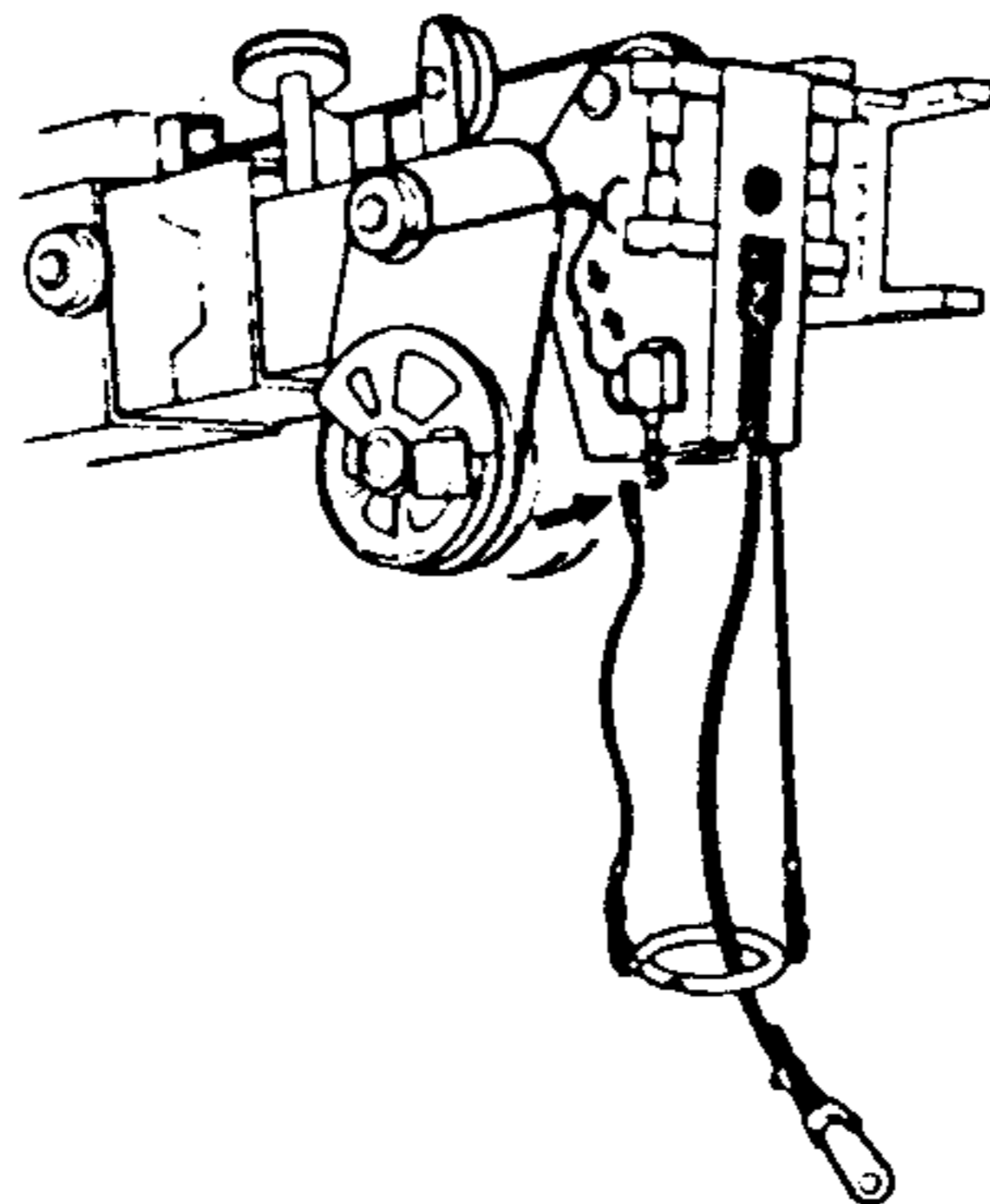
- (4) Take the auxiliary rope off the horizontal sheave on the top of the base boom section, and place it on the rollers.



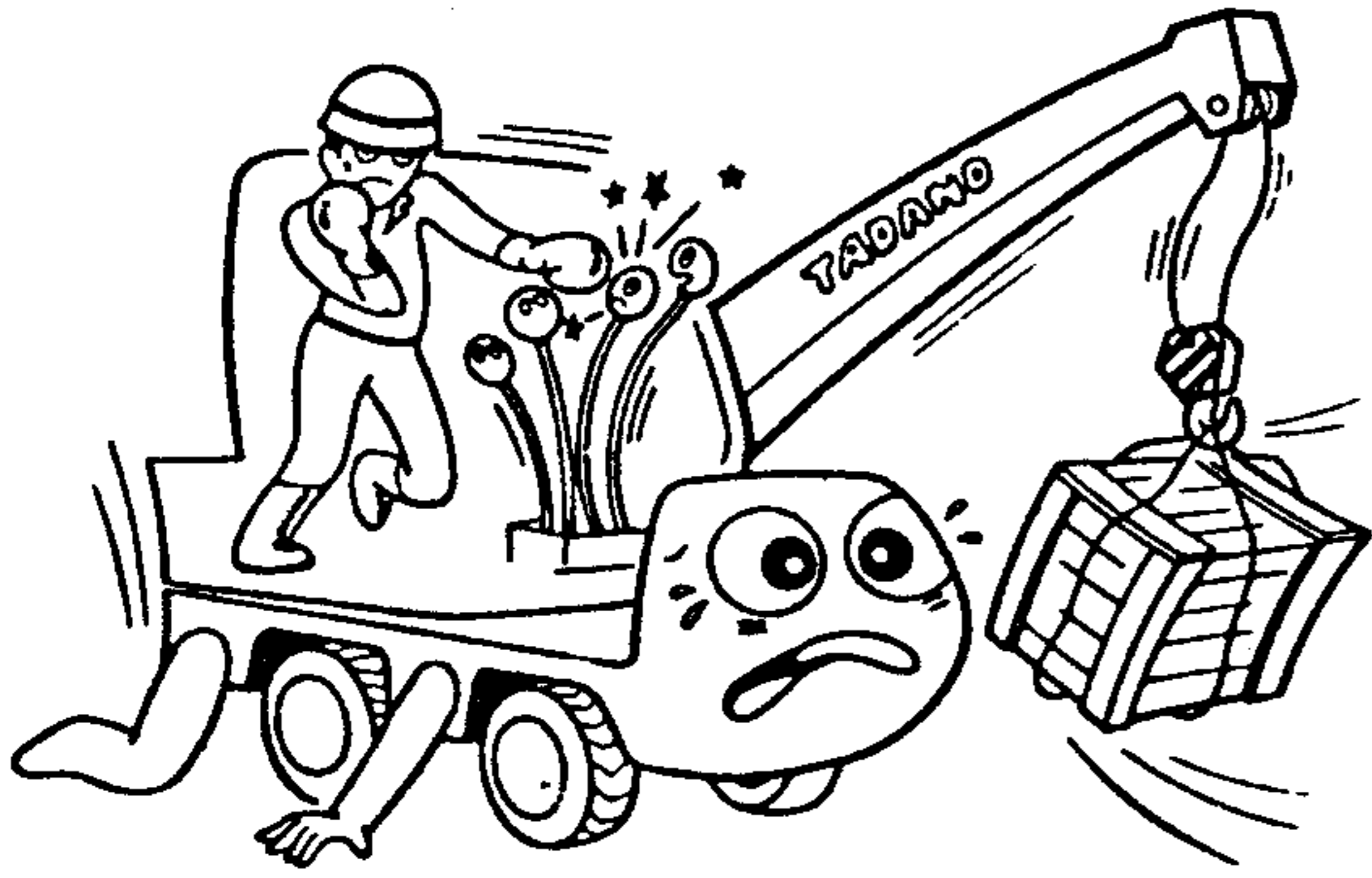
- (5) Draw out the pin, and place the rope on the top boom section.



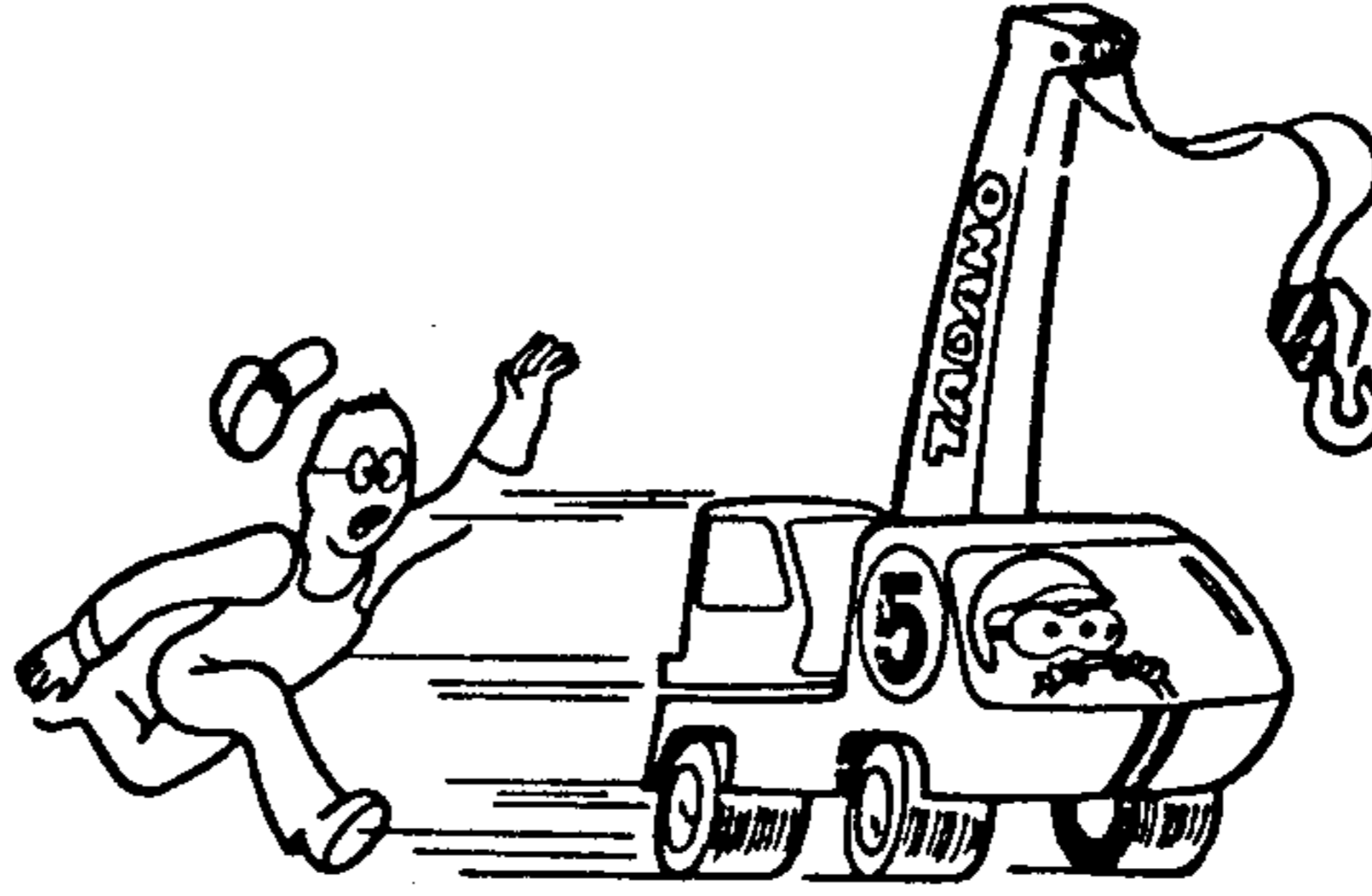
- (6) After connecting the over-winding alarm device cord, attach the over-winding alarm device rope and pass the winch rope through the weight of the over-winding alarm device.



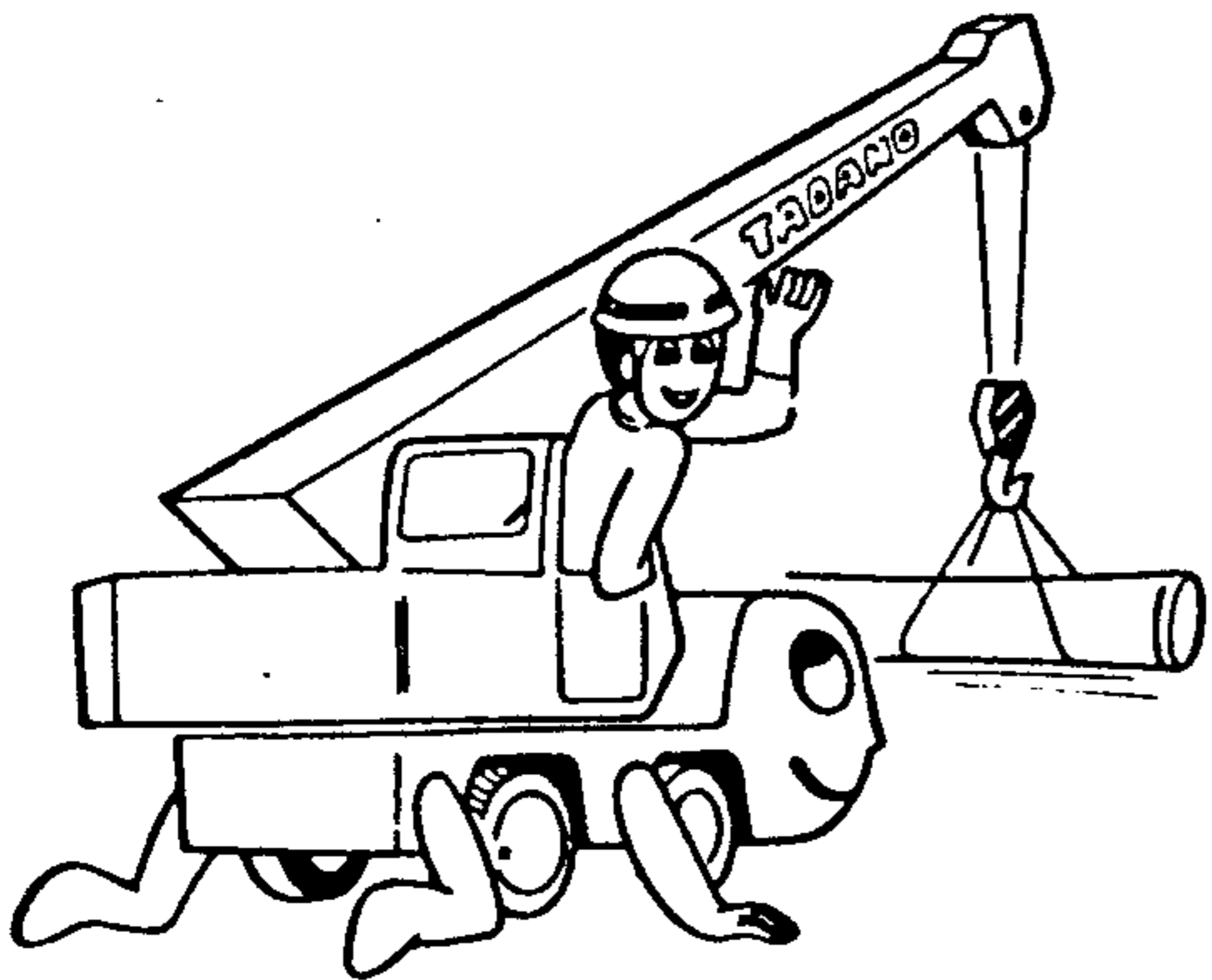
Do not handle levers abruptly.



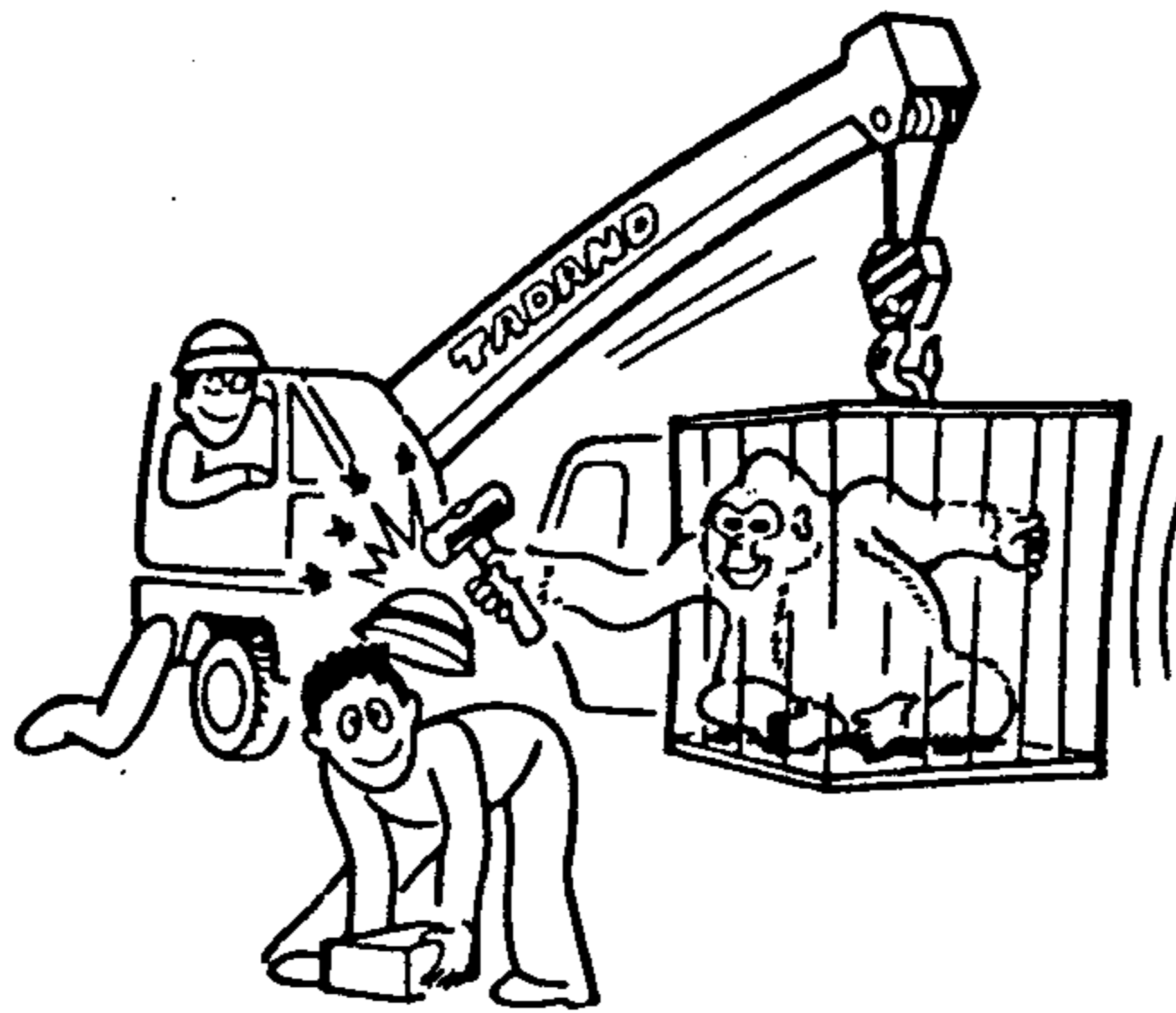
Store the boom and outriggers before traveling.  
The hook(s) should be stored in the designated place.



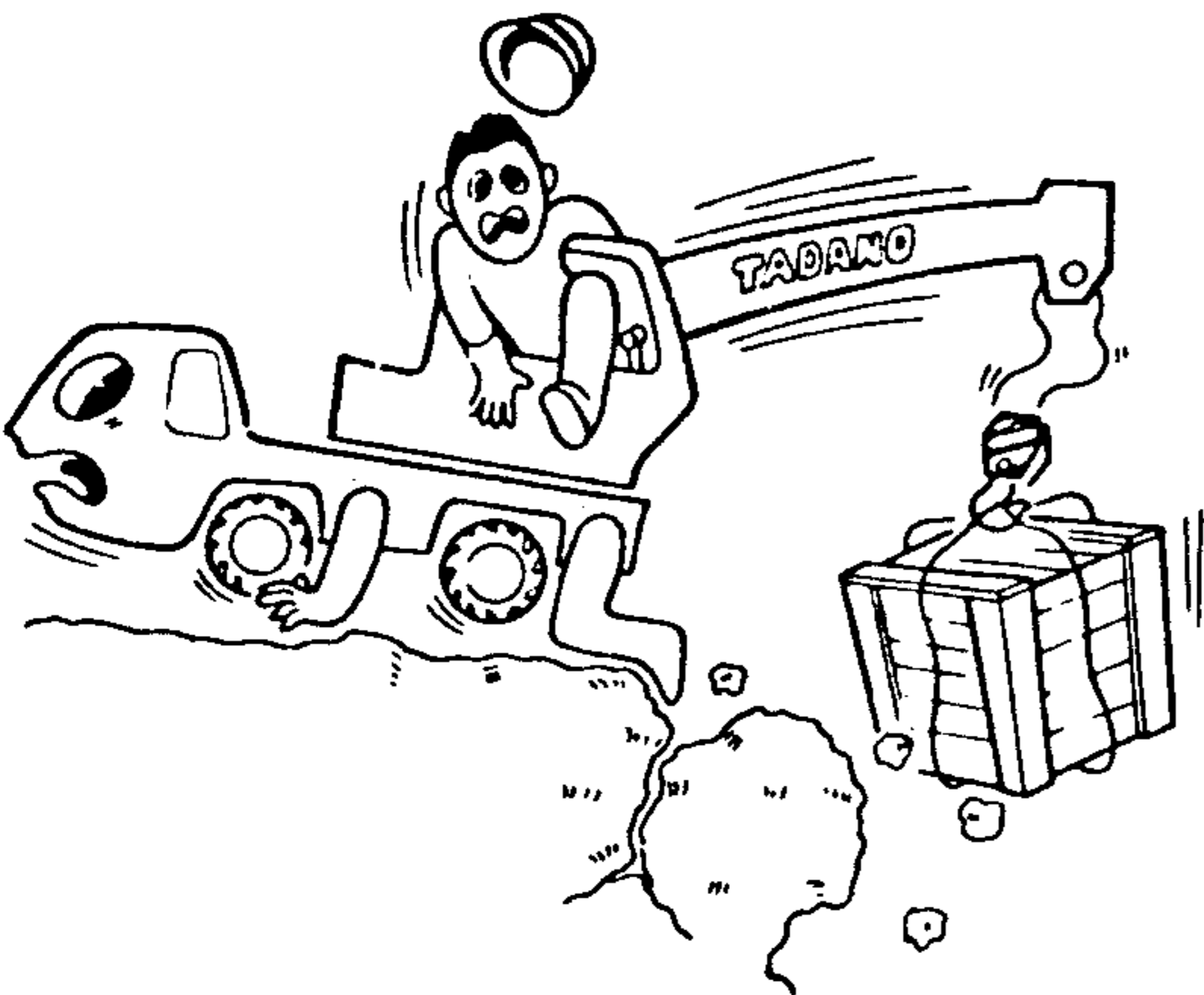
Operate the crane slowly until accustomed to it.



Do not allow anyone to enter the working area.



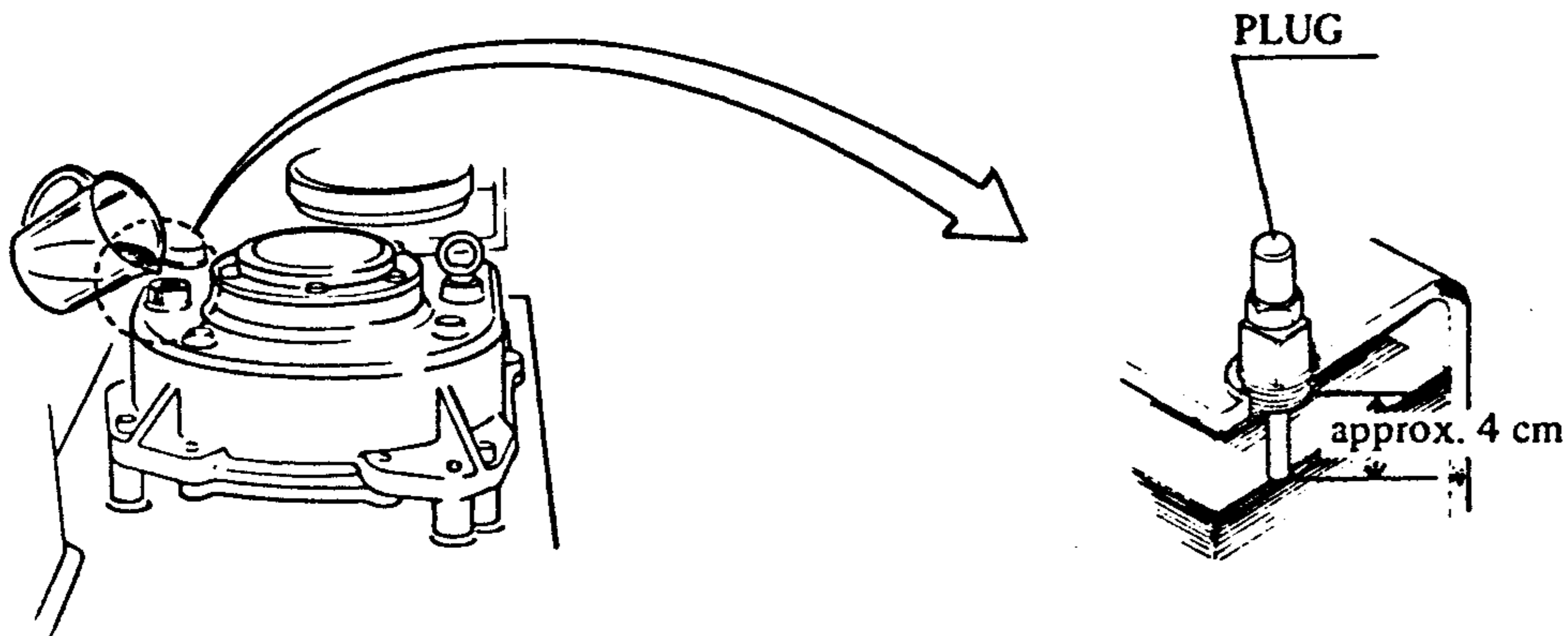
Set up the crane on hard level ground.



Operate the crane in accordance with the total rated loads table

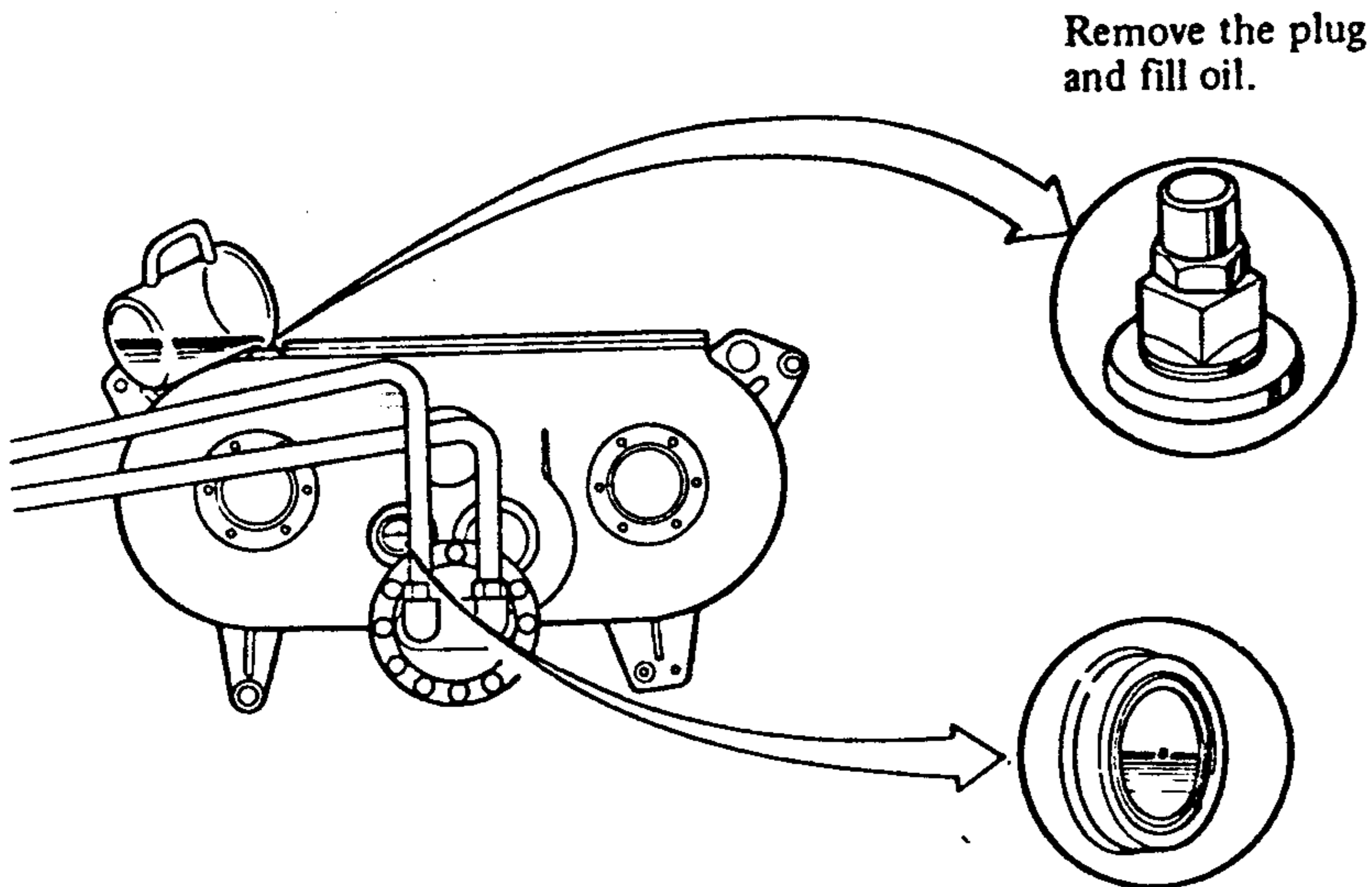


**□ SWING SPEED REDUCER**



Necessary gear oil quantity: approx. 8 lit.

**□ WINCH SPEED REDUCER**

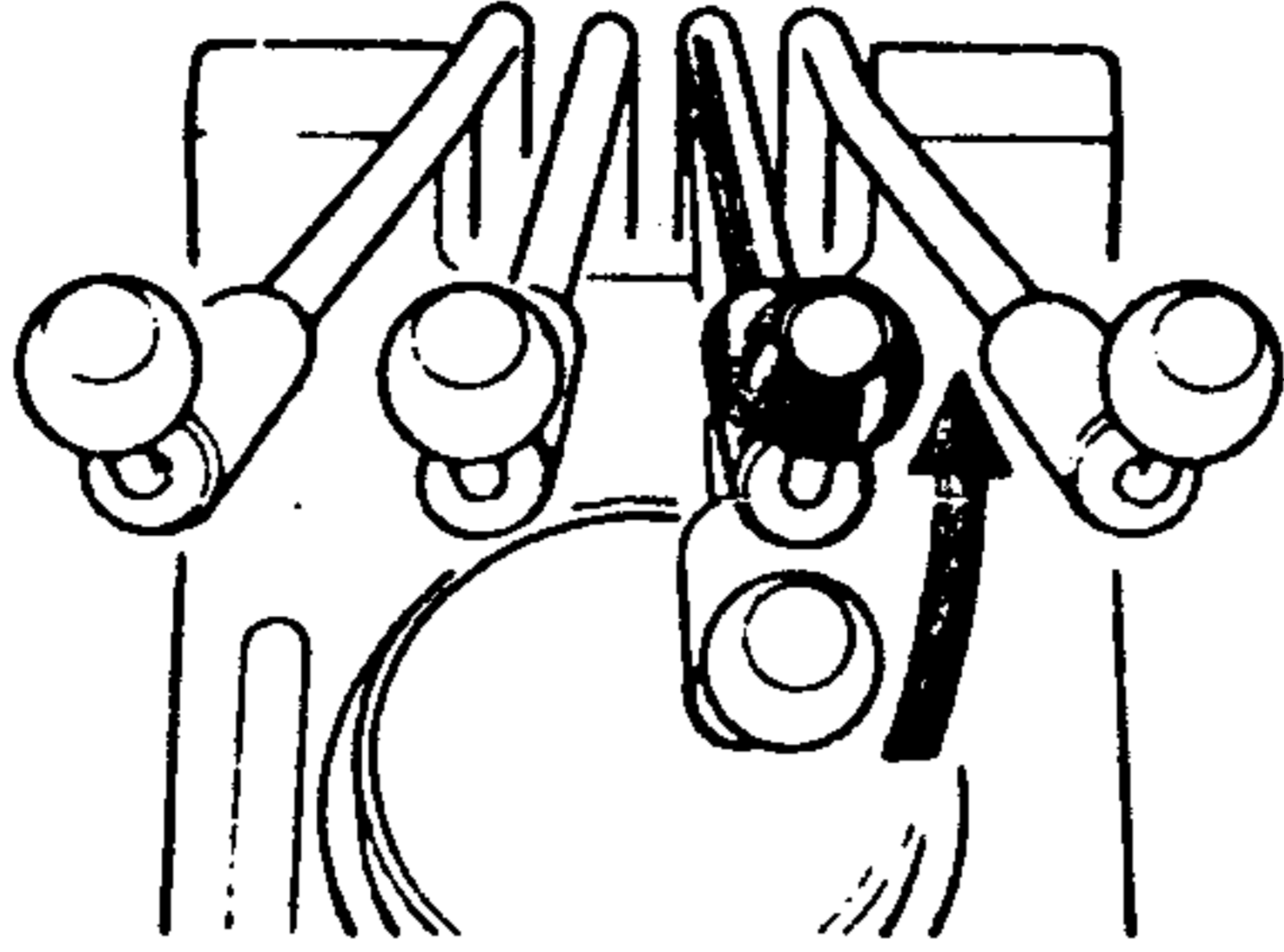
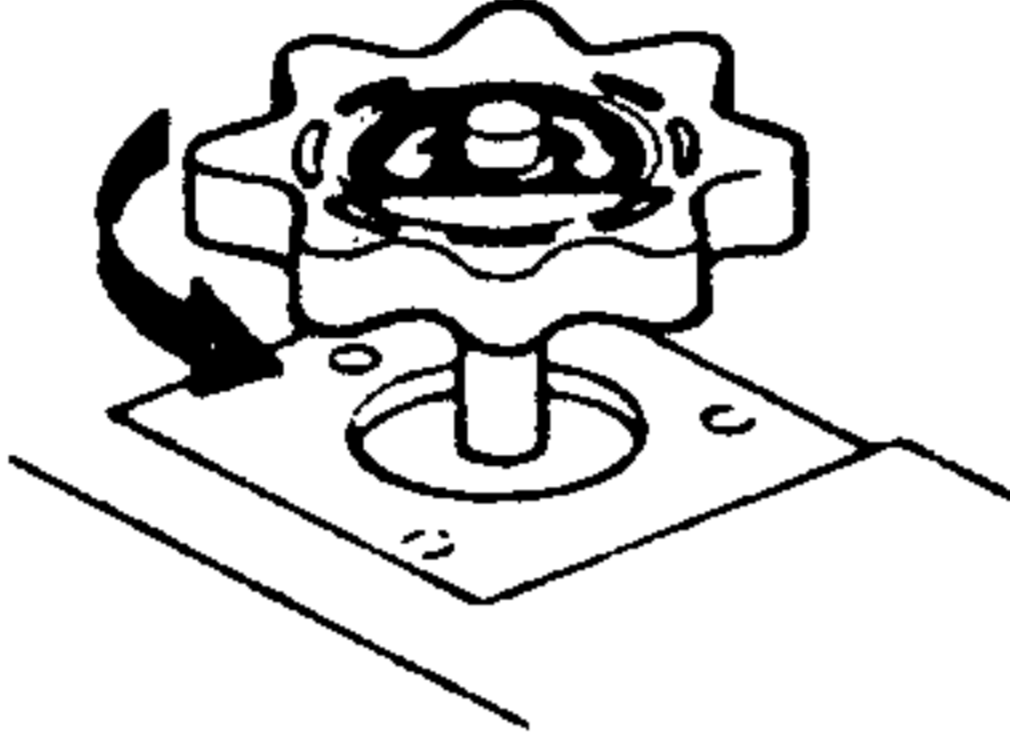
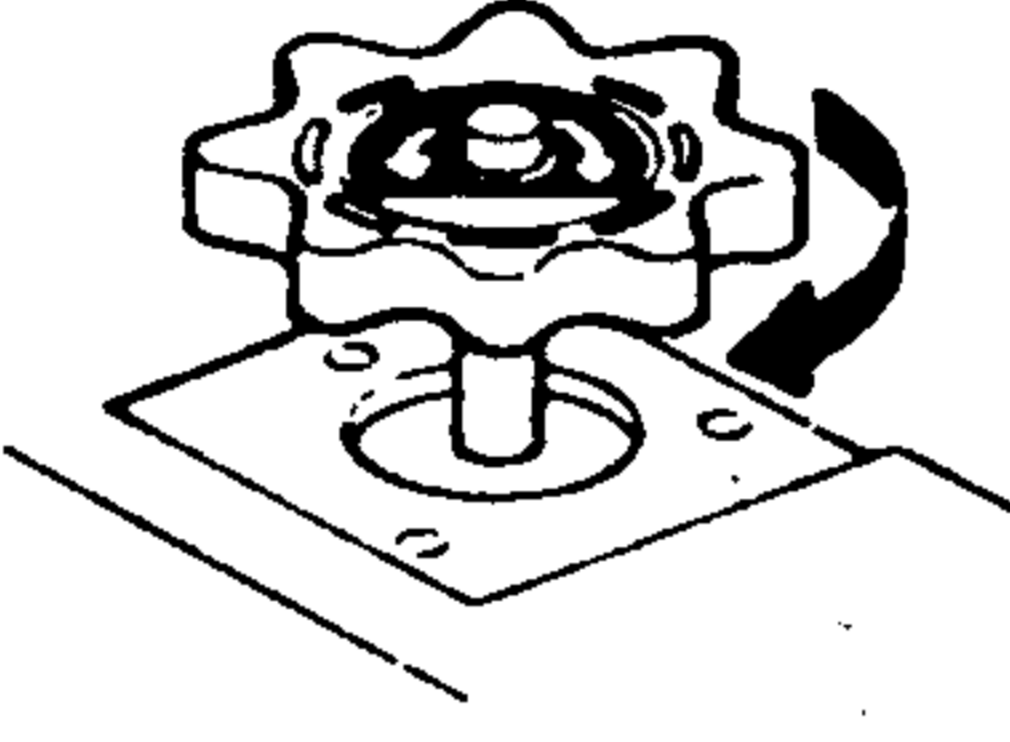
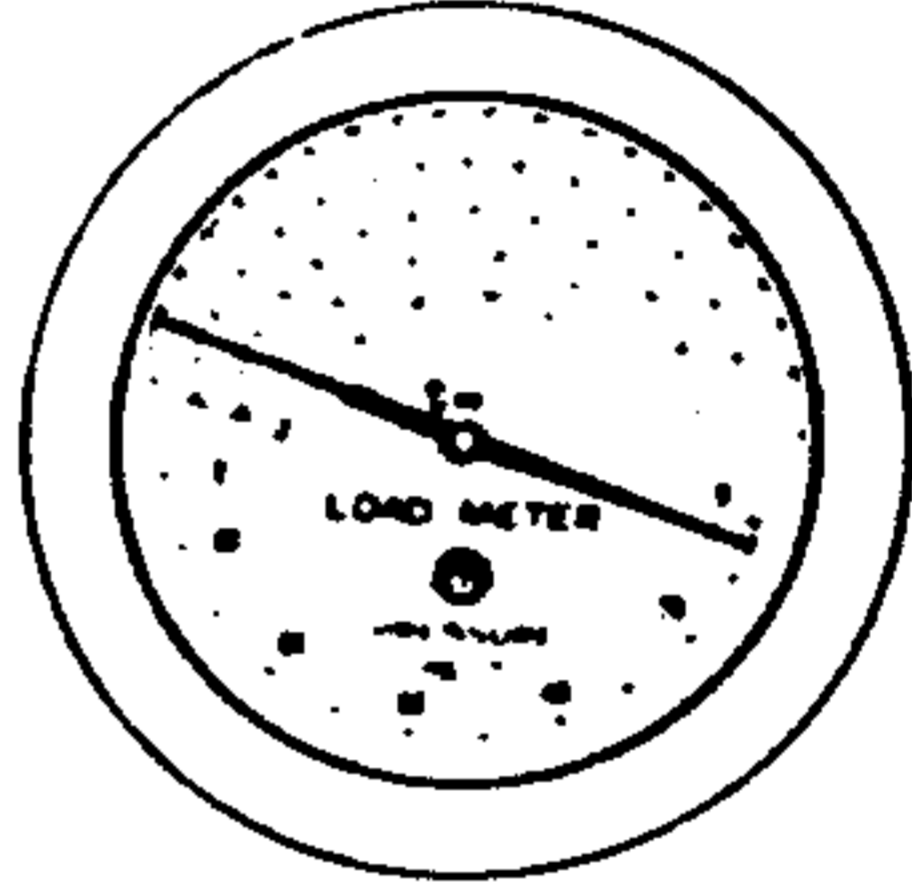


Oil level gauge.  
Fill oil till it reaches the red mark.  
Necessary gear oil quantity;  
approx. 10 lit.

# PERIODICAL INSPECTIONS

PERIODICAL INSPECTIONS ..... 16352-14011 ..... 4-1

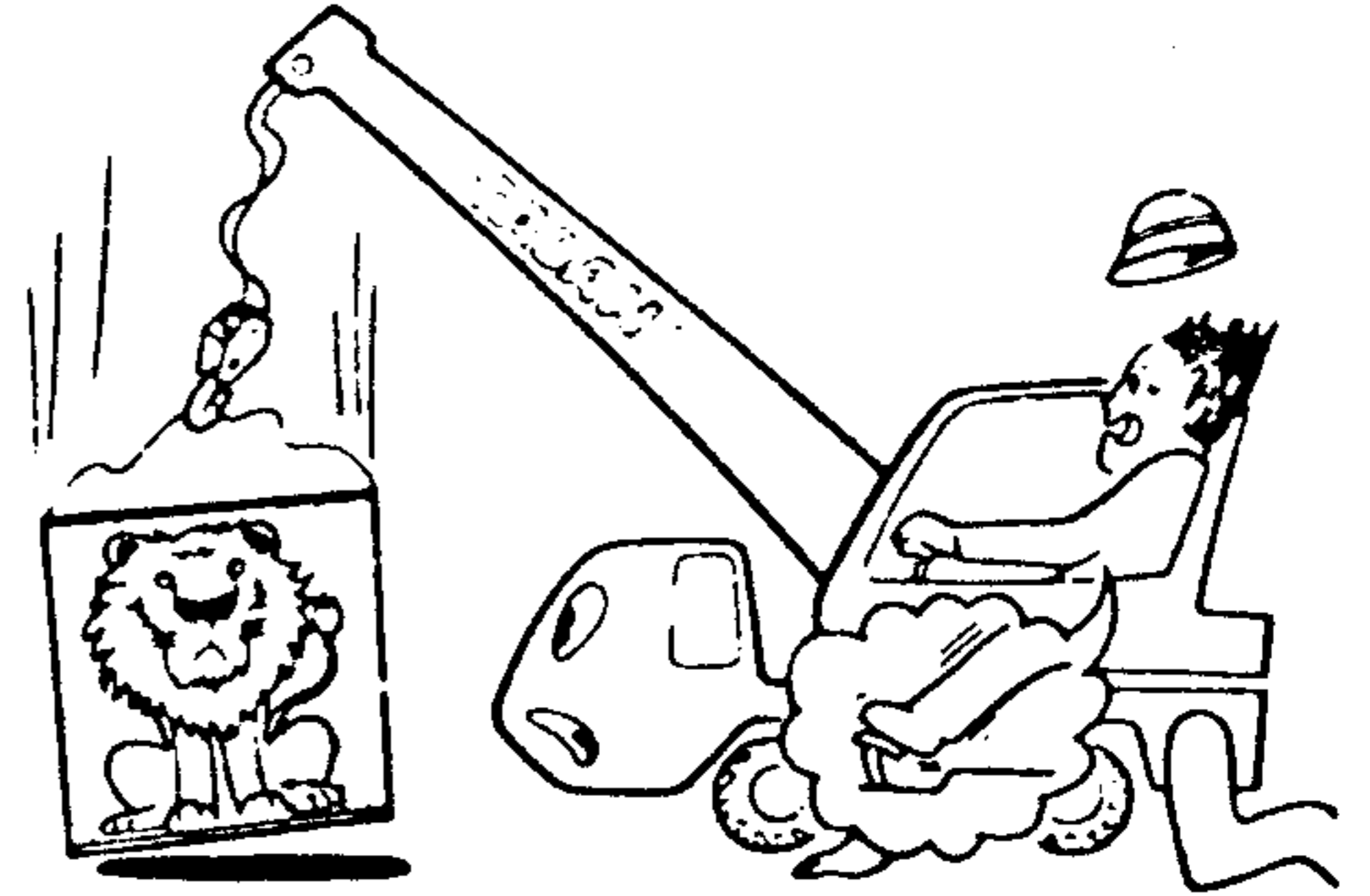


No.	Procedure	Note	Maintenance standard and tools
13	Return the telescoping lever to neutral. 		
14	Open the oil supply cock. 	Indicator needle moves toward 0 ton.	
15	Close the oil supply cock. 	Promptly when the needle comes to the red mark (2.5kg/cm) on the scale. 	
16	Lift a load below total rated load, and not exceeding 2900kg per part-line. Then detach the load of the hook and raise only the hook.	Hook block weight: 230kg	
17	Make sure that the indicator needle has returned to the red mark on the scale. If not, repeat the procedure No. 14 through 16 till the needle returns to the red mark on the scale.		

After this adjustment is over, take in the rope to eliminate slackness.

## WINCH BRAKES

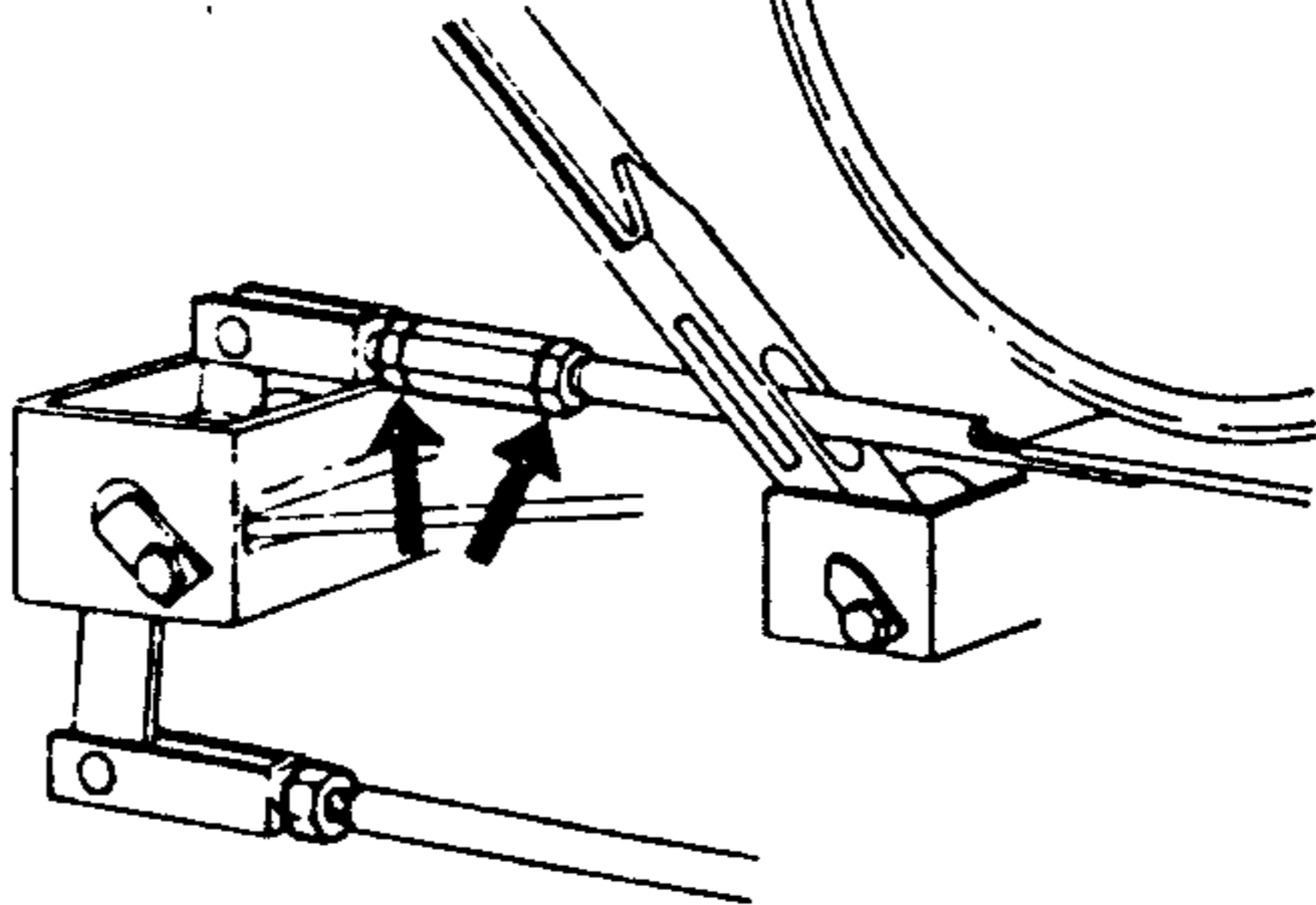
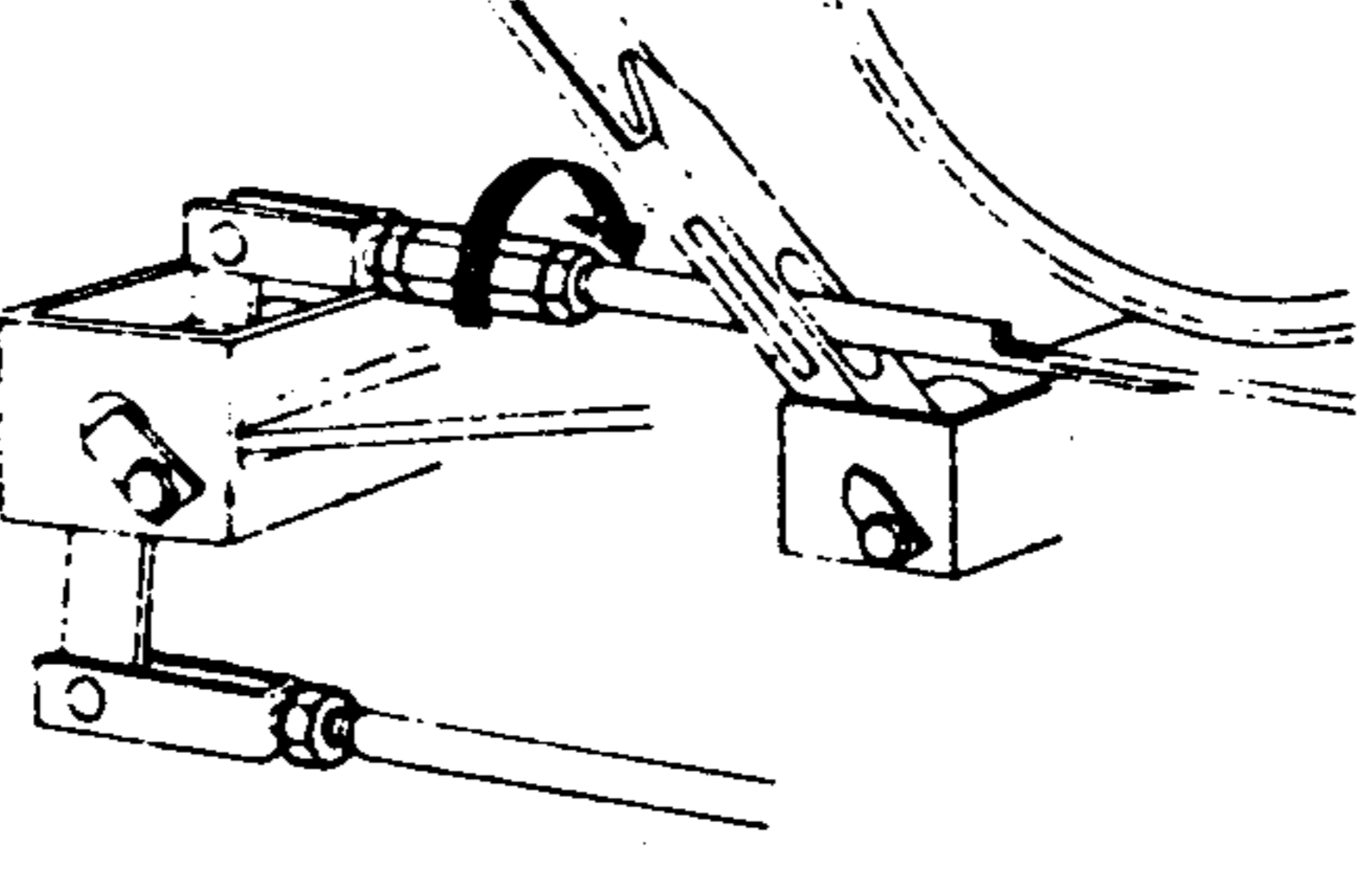
Winch brake slippage causes the lifted load to lower in spite of brake application. Adjust the brake as below.



### NOTE ON OPERATION

1. Set up the crane on hard level ground.

### ADJUSTING CLEARANCE BETWEEN SHOE AND DRUM OF MAIN WINCH BRAKE

No.	Procedure	Note	Maintenance standard and tools
1	Re-reeve to 4-part line. Lift a load.	Approx. 60 to 70 kg load.	
2	Elevate the boom to 50°.		
3	Depress the main winch brake pedal. Set the main winch clutch lever to OFF.	Do not lock the brake pedal.	
4	Loosen the turnbuckle locknuts. 		Spanner
5	Rotate the turnbuckle in the arrow direction so that there is no clearance between brake shoe and drum. 	Hook must not lower when the brake pedal is released.	Spanner

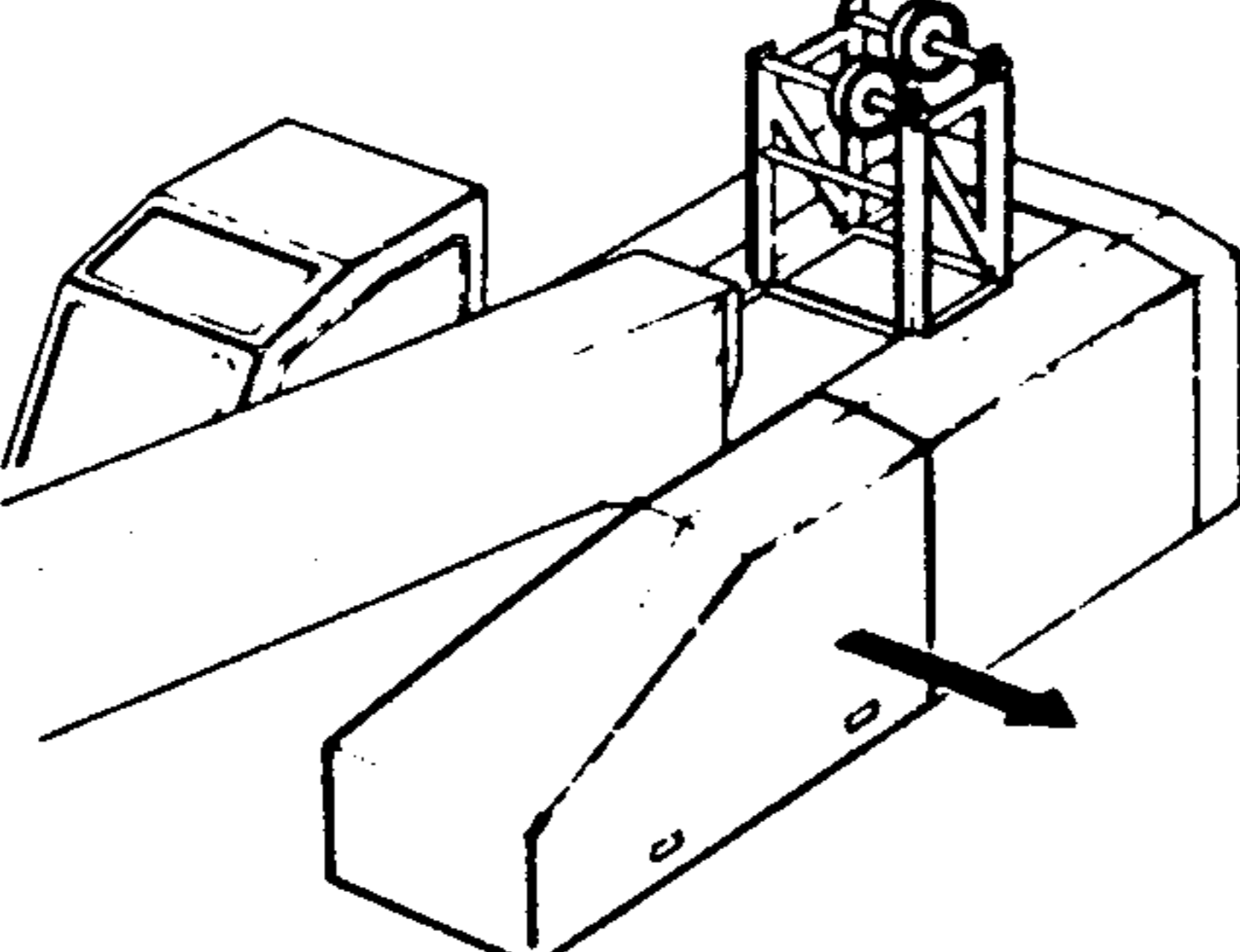
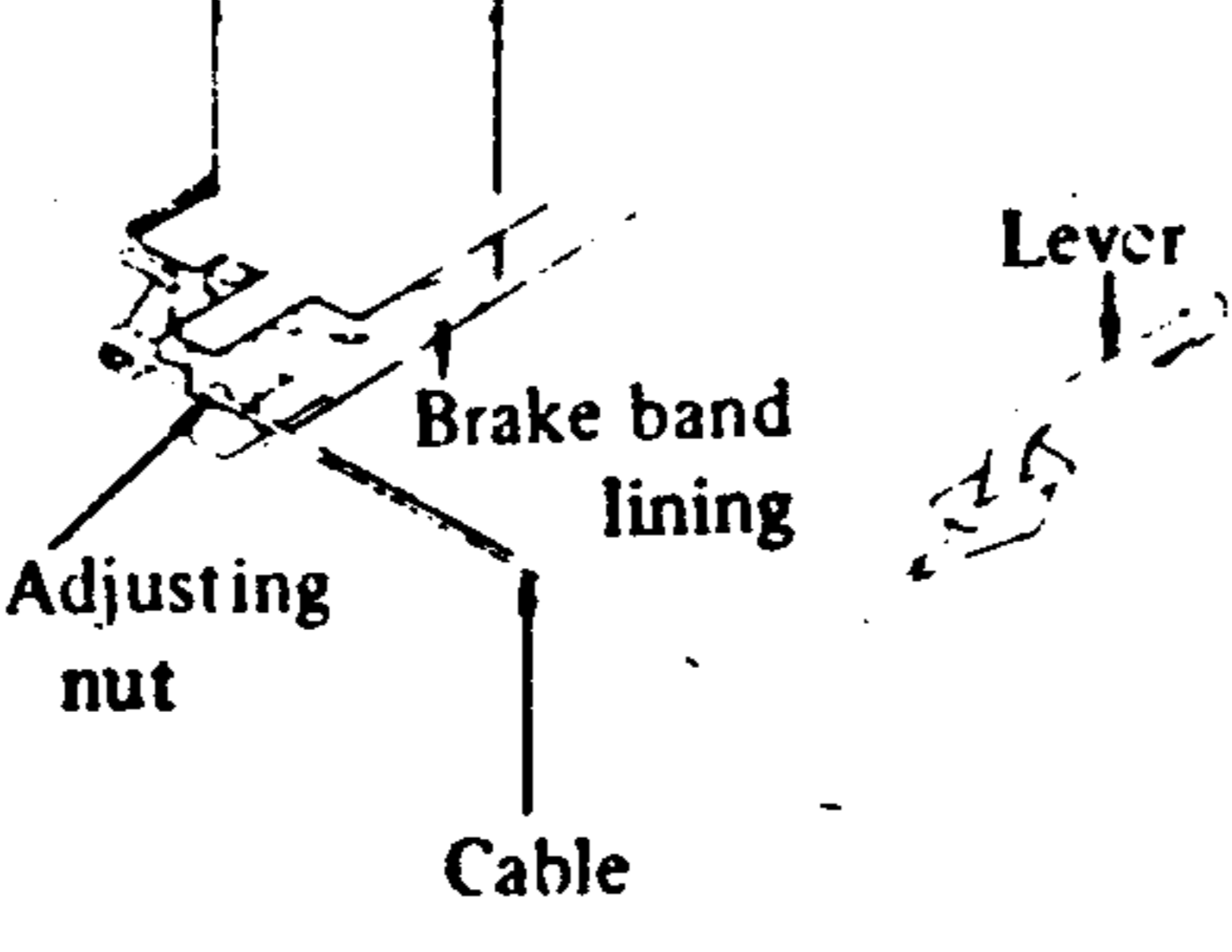
## SWING BRAKE

Unless this brake works properly, it is difficult for boom to maintain the same position all through crane operation. Adjust the brake as follows:

### NOTE ON OPERATION

Set up the crane on hard level ground:

### ADJUSTMENT

No.	Procedure	Note	Maintenance standard and tools
1	<p>Remove the swing table cover of the reducer side.</p> 		
2	<p>Check the brake lever for smoothness and quantity of its motion.</p> 		

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