

M-90-2  
REV. A  
APRIL, 1993

# OPERATORS' MANUAL

# RAILIFT® SERIES LIFT GATES B SERIES

**MAXON®**  
INDUSTRIES, Inc.

1960 SLAUSON AVENUE  
HUNTINGTON PARK CA. 90255

**KEEP IN CAB OF VEHICLE**  
THIS MANUAL CONTAINS INFORMATION  
FOR OPERATING YOUR UNIT

**IMPORTANT**



# WARNING

1. READ THIS MANUAL AND UNDERSTAND COMPLETELY BEFORE OPERATING THIS UNIT.
2. IF YOUR OPERATING PROCEDURE REQUIRES MORE THAN ONE PERSON, CHECK LOCATION OF THE OTHER PEOPLE BEFORE OPERATING UNIT.
3. LOCK RETENTION RAMPS BEFORE CLOSING PLATFORM.
4. DO NOT STAND ON PLATFORM AND OPERATE UNIT WITH CAM FOLLOWERS ENGAGED.
5. WHEN PLATFORM IS USED AS A RAMP BETWEEN TRUCK OR TRAILER AND DOCK, DO NOT ALLOW ANY TRANSFER OF LOADS TO EXCEED THE RATED CAPACITY FOR YOUR UNIT.
6. DO NOT STAND UNDER PLATFORM WHEN LOWERING OR PLACE YOUR FEET WHERE PLATFORM COULD COME DOWN ON THEM.
7. DO NOT STAND IN FRONT OF OR ON TOP OF PLATFORM WHEN PLATFORM IS LOWERED NEAR THE GROUND IN A VERTICAL POSITION. MAKE SURE PLATFORM HOLDING CHAIN IS PROPERLY FASTENED IN THIS POSITION.
8. DO NOT USE PLATFORM TO RESTRAIN LOADS IN THE BODY WHEN PLATFORM IS IN THE VERTICAL POSITION. IT IS NOT A DOOR.
9. ALWAYS ENGAGE SLIDE LOCKS WHEN PLATFORM IS IN VERTICAL POSITION AND VEHICLE IS READY TO BE DRIVEN ON HIGHWAY.
10. USE ONLY FACTORY AUTHORIZED PARTS FOR REPLACEMENT. THE PART NUMBERS ARE LISTED IN THE BREAKDOWN DRAWING FOR YOUR UNIT IN THE MAINTENANCE MANUAL.
11. DO NOT ALLOW CHILDREN TO RIDE OR PLAY WITH UNIT.
12. THE LIFT SHOULD OPERATE SMOOTHLY AND THE ONLY NOISE DURING OPERATION SHOULD BE FROM THE PUMP UNIT DURING THE RAISE OPERATION. ANY SCRAPING, GRATING OR AUDIBLE SUGGESTIONS OF ROUGH RUNNING SHOULD BE INVESTIGATED. THE CAUSE SHOULD BE LOCATED BEFORE FURTHER DETERIORATION OF PERFORMANCE OCCURS. HAVE UNIT CHECKED EVERY 3 MONTHS FOR HYDRAULIC HOSE AND WIRE ROPE DETERIORATION, BROKEN WELDS, MISSING OR LOOSE BOLTS AND NUTS, ELECTRICAL LINES AND CONNECTIONS AND GENERAL CONDITION OF LIFT.

On the corner post of your vehicle, close to the curb side control switch, there should be a RED URGENT WARNING decal attached.

The contents of the decal are as follows:

URGENT WARNING



ELEVATING GATE INSTRUCTIONS

Before Operating Lift, Be Sure You Understand

1. Improper operation of this lift can result in serious personal injury. Do not operate unless you have been properly instructed and have read, and are familiar with the operating instructions. If you do not have a copy of the instructions please obtain them from your employer, distributor, or lessor, as appropriate, before you attempt to operate the lift.
2. Be certain the vehicle is properly and securely braked before using the lift.
3. Always inspect this lift for maintenance or damage before using it. If there are signs of improper maintenance, damage to vital parts, or slippery platform surface, do not use the lift. Do not attempt your own repairs, unless you are specifically trained.
4. Do not overload. See the Manufacturer Literature for the rated load. Remember that this limit applies to both raising and lowering operations.
5. Each load should be placed in a stable position as near as possible to the center of the platform.
6. Never stand in or move through or allow anyone else to stand in or move through the area in which the lift may operate or into which an upset load might fall.
7. This is not a passenger lift. Do not ride the lift with unstable loads or in such a manner that a failure would endanger you. The lift is not equipped with a back-up alarm system to prevent falling in the event of a failure.

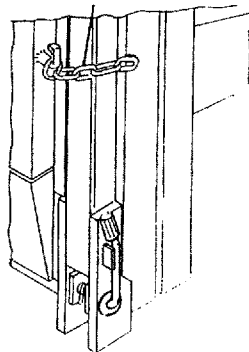
other decals that are on unit that should be adhered to are:

1. "Caution Stand Clear When Operating" on the back of the lift.
2. A capacity decal.
3. A metal plate in the main frame advising to check the cable every 3 months for broken cable strands.

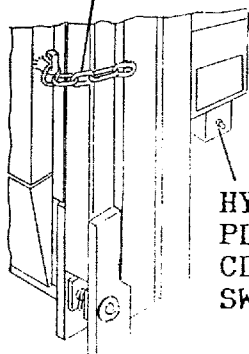
## OPERATING PROCEDURE

- 1.1 USING MAIN TOGGLE CONTROL SWITCH LOCATED ON CURB SIDE OF LIFT COLUMN, RAISE UNIT TILL PLATFORM RUNNERS HIT COLUMN STOPS. REMOVE PLATFORM HOLD CHAIN AND MOVE SLIDE BAR TOWARDS FRONT OF TRUCK, FAR ENOUGH TO CLEAR STOP BLOCK WHEN UNIT IS LOWERING.
2. IF UNIT HAS THE MECHANICAL CLOSING PLATFORM, ALL YOU NEED DO IS MOVE TOGGLE SWITCH IN THE DIRECTION AWAY FROM THE TRUCK. CAUTION: MAKE SURE THAT NO OTHER PERSON IS STANDING BEHIND THE PLATFORM DURING THE OPENING OPERATION. THE PLATFORM WILL AUTOMATICALLY OPEN AND LOWER AT THE SAME TIME.
3. IF UNIT IS EQUIPPED WITH A HYDRAULIC CLOSING PLATFORM, MOVE LOWER TOGGLE SWITCH IN THE DIRECTION AWAY FROM THE TRUCK TILL PLATFORM IS COMPLETELY OPEN. THEN MOVE THE UPPER SWITCH IN THE DIRECTION AWAY FROM THE TRUCK, TO LOWER PLATFORM TO GROUND. REPEAT PROCEDURE TO RAISE AND CLOSE.

PLATFORM HOLDING CHAIN  
MUST BE FASTENED AT ALL  
TIMES WHEN PLATFORM IS  
CLOSED.



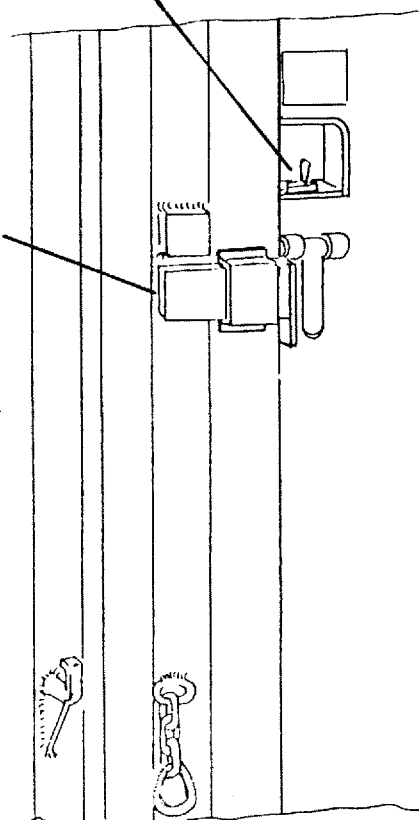
PLATFORM HOLDING CHAIN  
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HYDRAULIC  
PLATFORM  
CLOSER  
SWITCH

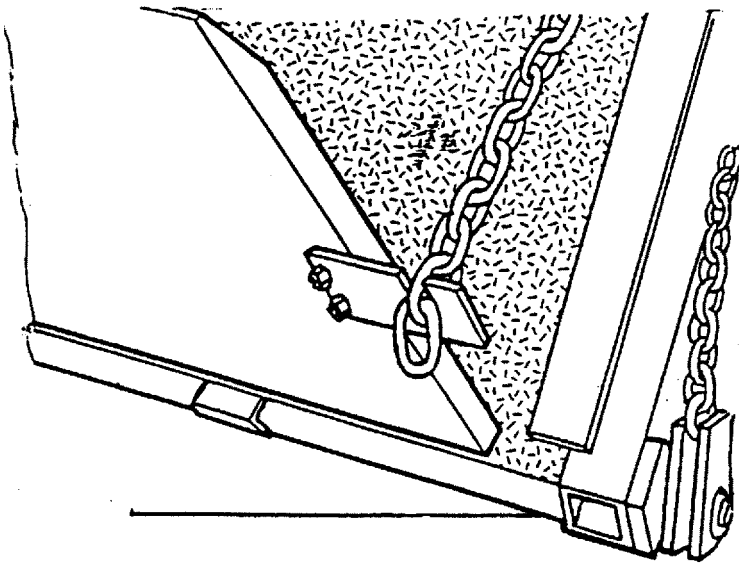
RAISE AND  
LOWER SWITCH

SLIDE  
BAR



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Platforms with Aluminum Retention Ramps. Unit Option.

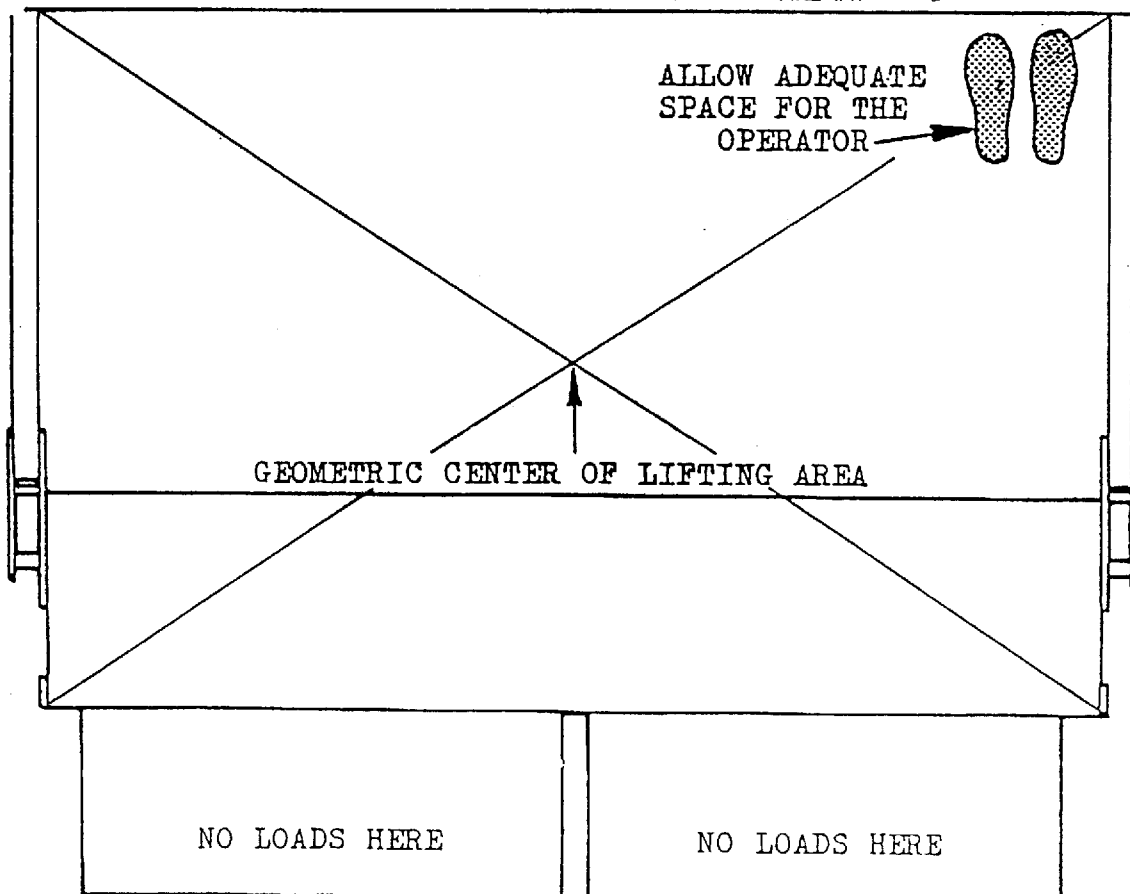


If loading is to take place with the platform lowered the retention ramp is unfolded so that it will act as a loading ramp.

If loading is taking place at bed height, the ramp is placed in the bracket on the side of the ramp. The opposite end of the ramp will be secured in the same manner.

The loading requirements are the same whether the platform is loaded from the ground, from bed height or from a dock.

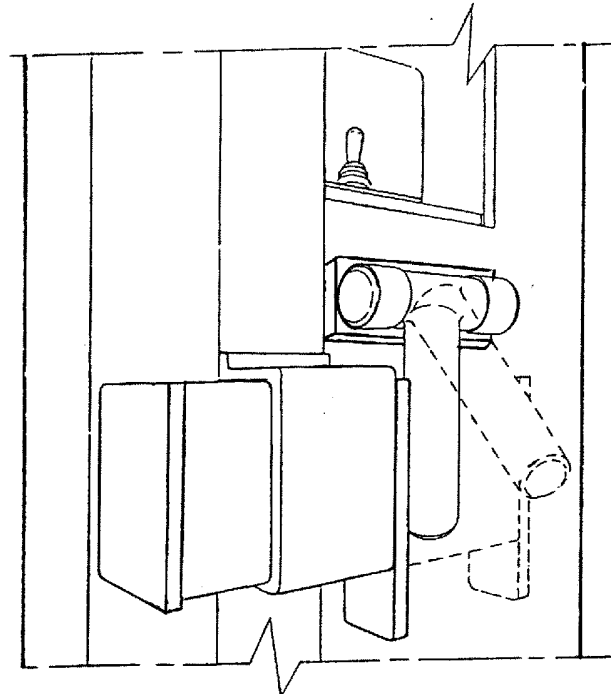
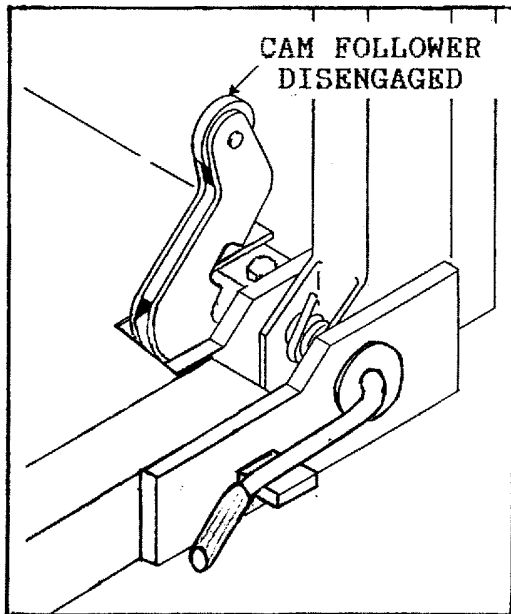
- (a) The load MUST NOT BE GREATER THAN THE RATED CAPACITY FOR YOUR UNIT.
- (b) The load shall be placed and distributed CENTRALLY AROUND THE GEOMETRIC CENTER OF THE LIFTING AREA.
- (c) Adequate space must be available for the operator to stand safely within the confines of the platform while operating the control switch. Feet must not extend over the platform edge.
- (d) **WARNING!** WHEN OPERATING UNIT EXTREME CARE SHOULD BE TAKEN, ESPECIALLY WHEN LOADED, WHEN CHILDREN AND OTHER PERSON ARE IN CLOSE VICINITY TO THE OPERATION.
- (e) Before raising the platform ALWAYS CHECK THAT THE CAM FOLLOWERS ARE IN THE DISENGAGED POSITION. (This is illustrated on page 6. — OPERATING THE PLATFORM).



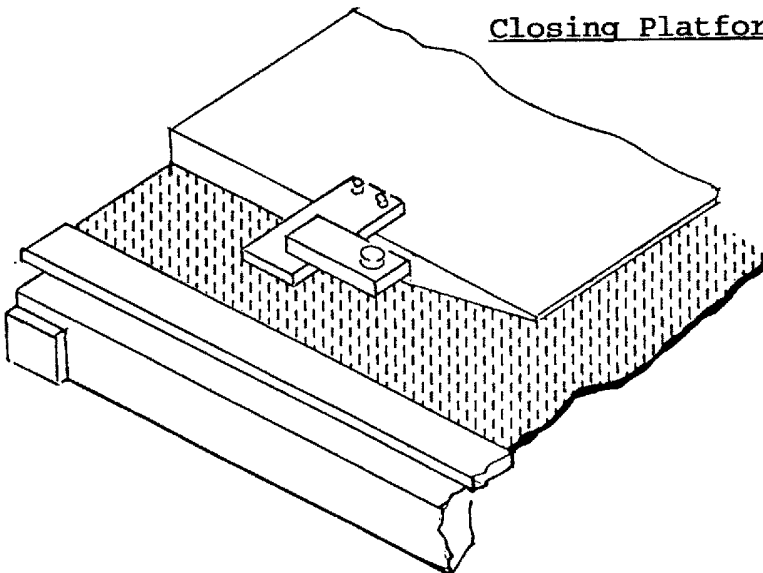
**WARNING!** UNDER NO CIRCUMSTANCES IS ANY LOAD TO BE CARRIED ON ANY RAMP WHICH MAY BE INSTALLED TO YOURS PLATFORM.

For a one man operation the operator will stand on the top right hand corner of the platform. as illustrated on Page 5. The operators feet **MUST** be clear of the edges of the platform. Check that the cam followers are in the disengaged position. Operate main control switch to raise platform. When platform reaches bed height release the switch. The load can now be moved into body. A load can now be off loaded from the body, the disposition of the load to be placed centrally about the geometric center of the lifting area. Operate switch to lower platform.

When platform touches the ground release the switch. If retention type ramps are installed to the platform lower them to the ground to enable the load to be off loaded.



Closing Platform to the Tailgate Position



After operations are complete and vehicle is to be moved from the operating zone the platform is raised to the tailgate position in the following manner.

If your platform has the hinged steel ramp or the aluminum ramp, it must be first folded over on to the top of the platform and locked in position shown on left.

## MECHANICAL-CLOSING-PLATFORM

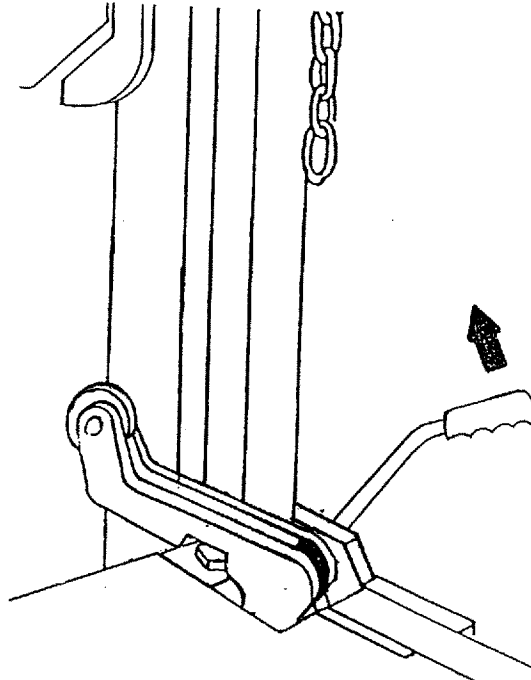
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RAISE PLATFORM JUST TO WHERE THE CAM FOLLOWERS CAN BE ROTATE CLOCKWISE WITHOUT HITTING THE CLOSING CAMS, ABOUT 20 INCHES FROM TOP OF TRUCK FLOOR.

USING YOUR LEFT HAND TO ROTATE THE CAM FOLLOWER HANDLE CLOCKWISE (TOWARD VEHICLE), AND ACTIVATE THE MAIN CONTROL SWITCH TO RAISE THE PLATFORM WITH YOUR RIGHT HAND. WHEN THE CAM FOLLOWERS TOUCH THE CAMS, REMOVE YOUR LEFT HAND FROM THE HANDLE. THE PLATFORM WILL ROTATE ABOUT THE HINGE PINS UNTIL IT REACHES THE VERTICAL POSITION.

CONTINUE TO RAISE THE PLATFORM UNTIL BOTH RUNNERS HIT THE STOPS. ATTACH CHAIN AND MOVE SLIDE BAR IN THE DIRECTION AWAY FROM THE TRUCK IN THE POSITION UNDER THE RUNNER BLOCKS.

PLATFORM MUST CLOSE FULLY, OR HOLDING CHAIN WON'T FIT OVER THE PLATFORM PIN. IF CHAIN DOES NOT FIT PROPERLY AS SHOWN ON PAGE 11, HAVE UNIT CHECKED BY SERVICE TECHNICIAN.



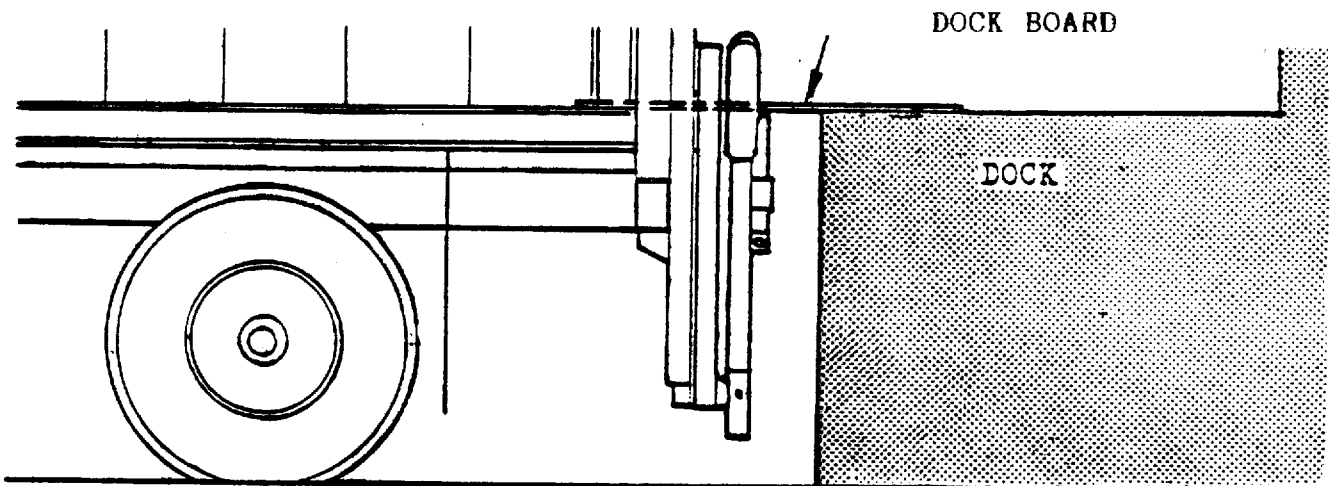
CAUTION: KEEP HANDS CLEAR OF CLOSING PLATFORM.



### Dock Loading Procedure - Standard Height Docks

Slowly back vehicle against dock. Pull forward a few inches. Platform can now be lowered in vertical position, by moving both left and right slide bars toward front of truck and operating the lowering switch located in curb side column. DO NOT remove platform holding chain for this operation. When platform clears truck floor, a dock board can be used to bridge the gap between the floor of truck and the dock.

Raise lift to full up position before pulling away from dock

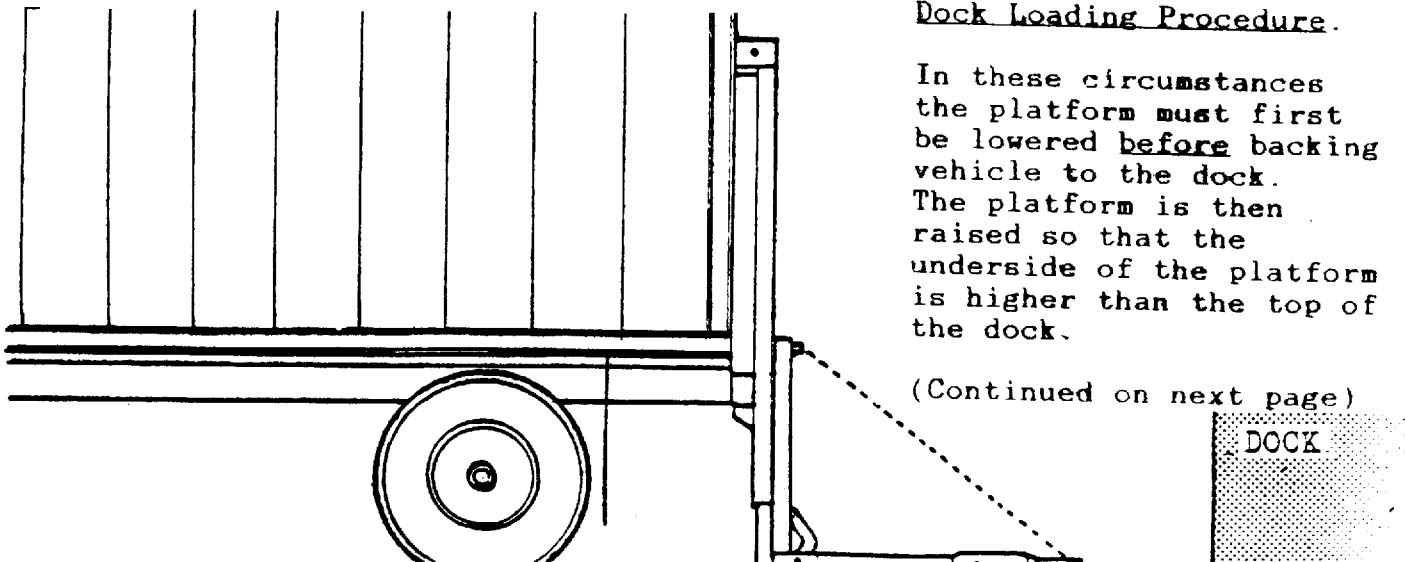


### ALTERNATE

#### Dock Loading Procedure.

In these circumstances the platform must first be lowered before backing vehicle to the dock. The platform is then raised so that the underside of the platform is higher than the top of the dock.

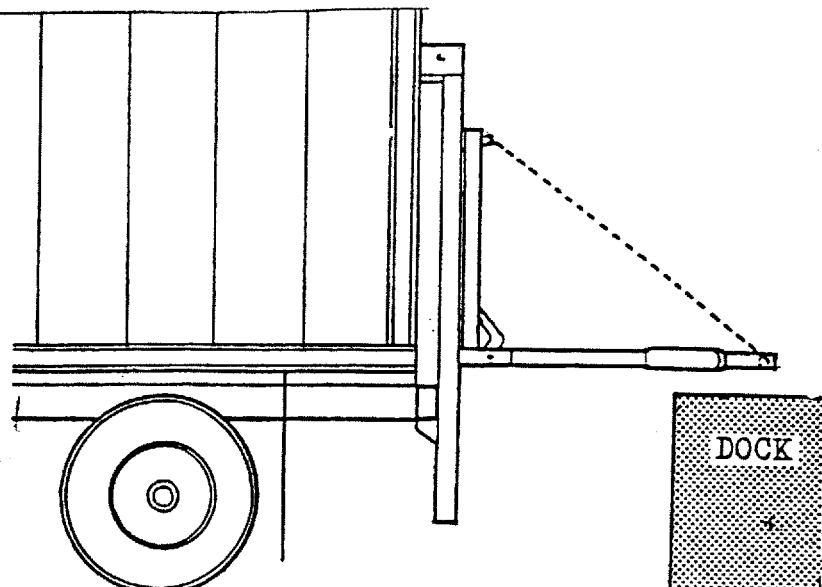
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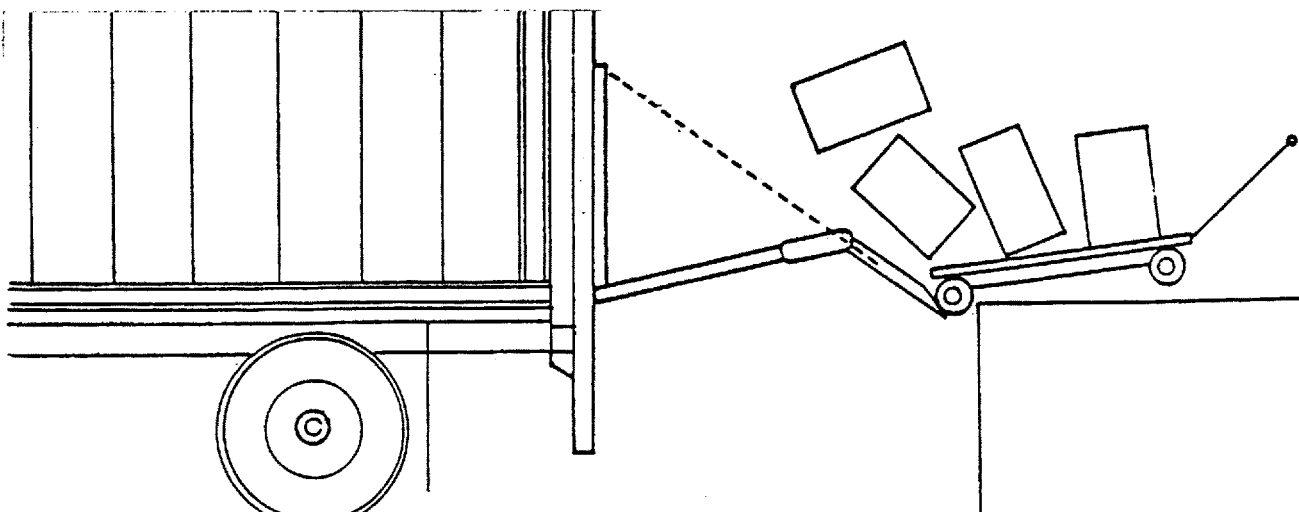
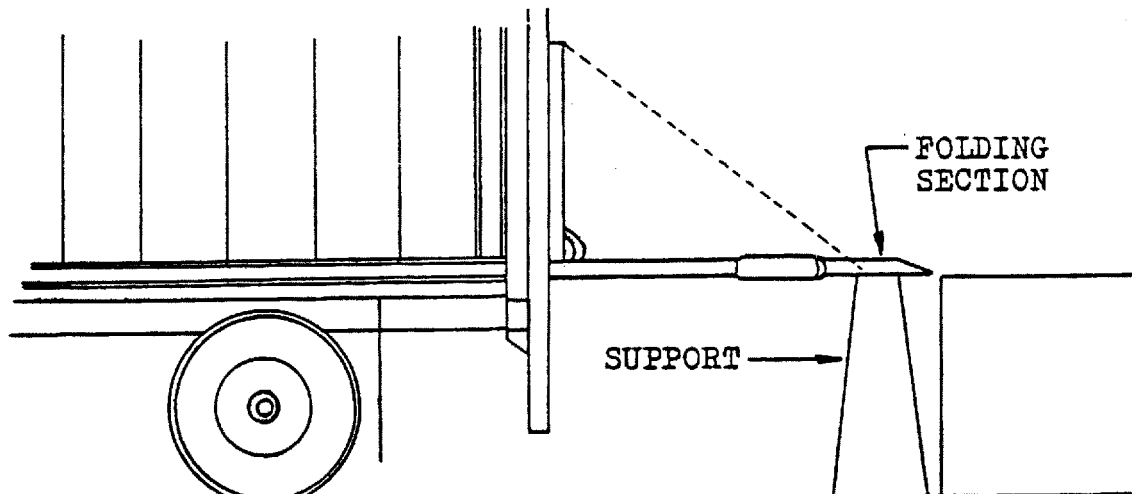
Back vehicles toward the dock until about one foot of platform is over the dock.

Loads can be off loaded from the body to the platform. Using the corner post toggle switch the platform is lowered to the dock.

Loads can be placed on the platform from the dock and then raised, using corner post switch, to the body bed height.

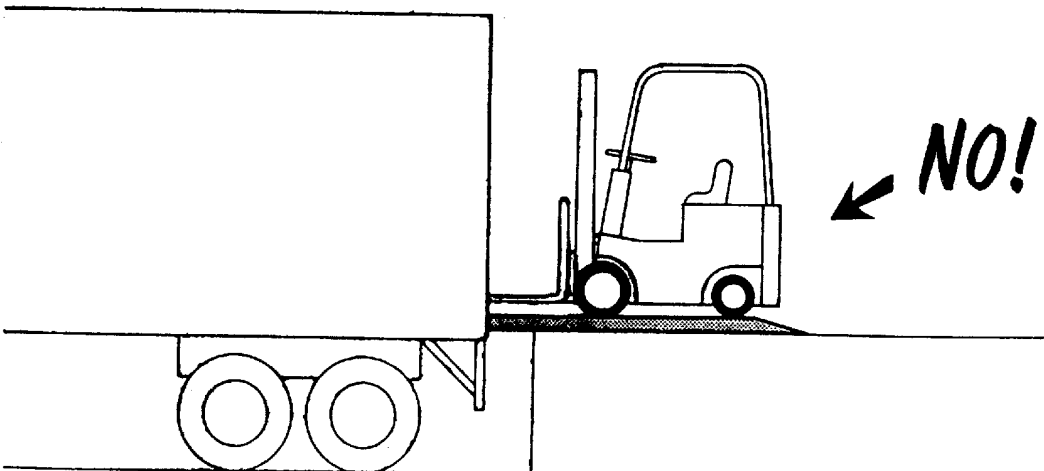
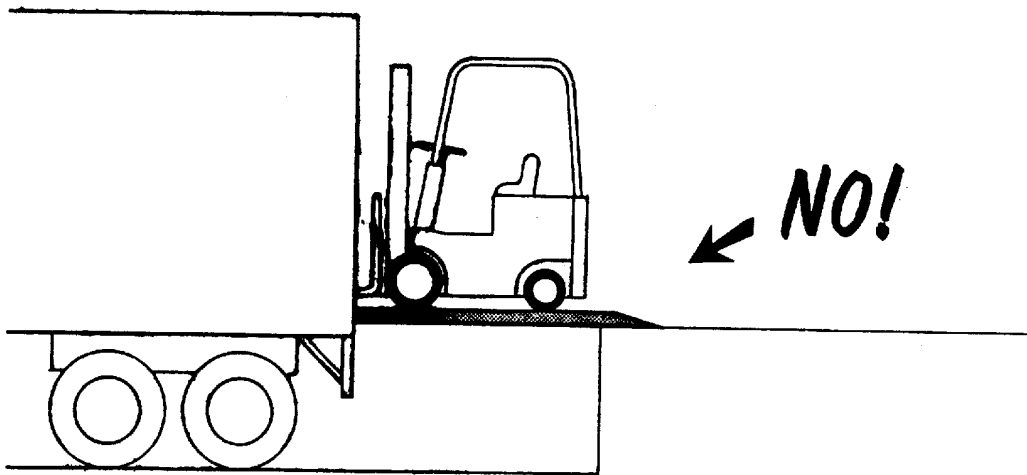
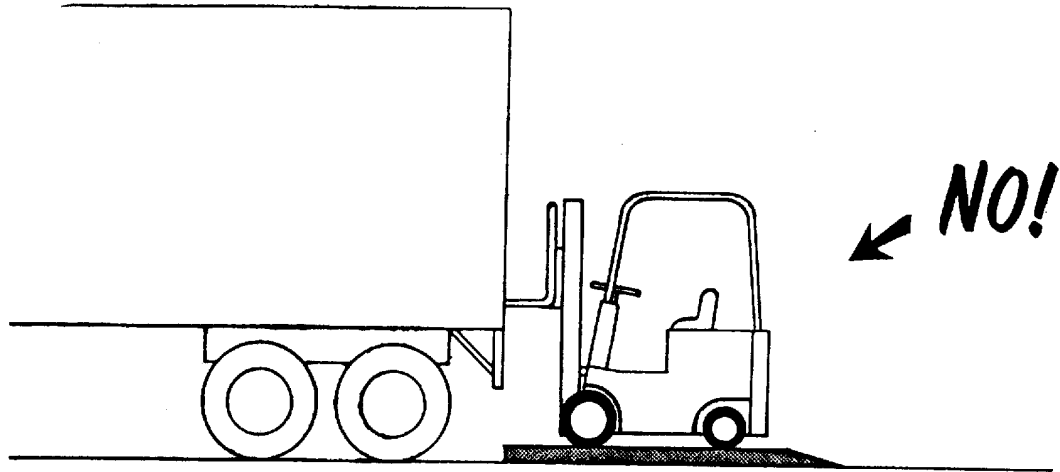


NEVER TRY TO TRANSFER LOADS FROM THE DOCK TO THE FOLDING SECTION OF THE PLATFORM OR FROM THE FOLDING SECTION OF THE PLATFORM TO THE DOCK WITHOUT FIRST PLACING A SUPPORT UNDER THE FOLDING SECTION OF THE PLATFORM, AS SHOWN BELOW. THIS ALSO APPLIES WHEN TRANSFERRING A LOAD FROM ONE VEHICLE TO ANOTHER.



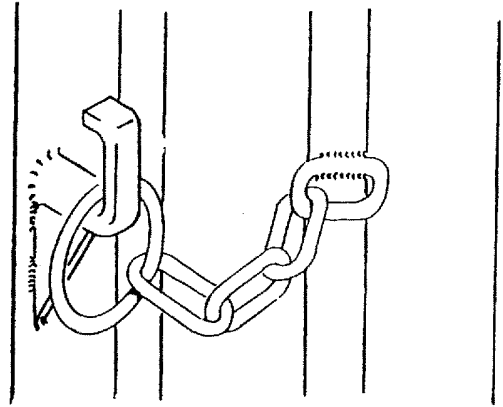
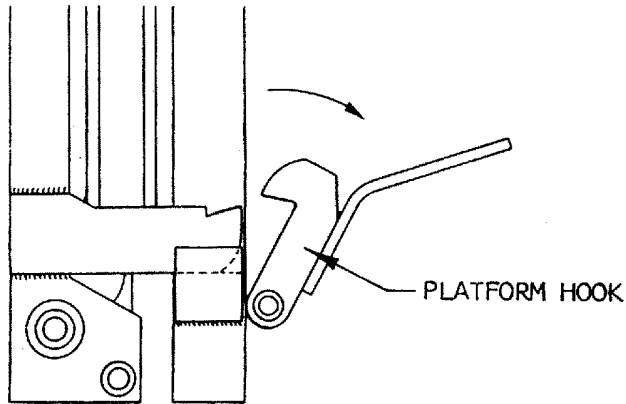
IF A SUPPORT IS NOT USED UNDER THE FOLDING PLATFORM SECTION  
"THIS WILL OCCUR"

**W A R N I N G!    K E E P   F O R K L I F T S   O F F   P L A T F O R M !!!**



RCT PLATFORM OPENING PROCEDURES

1. REMOVE PLATFORM RETAINER LOOP FROM PLATFORM.
2. HOLD PLATFORM HOOK OUT OF THE WAY AND PUSH "RAISE" BUTTON TO RAISE PLATFORM.



3. WITH PLATFORM CLEAR OF PLATFORM HOOK, PRESS LOWER TOGGLE SWITCH TO UNFOLD PLATFORM.
4. WHEN PLATFORM IS FULLY OPEN, OPERATE UNIT AS DESCRIBED IN PREVIOUS PAGES.

