OPERATOR'S GUIDE

G & J-Series

Carton Clamps & White Goods Clamps

Original Instructions

Number 6038012-R3 EN

CE

cascade® corporation

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WARNING: Rated capacity of the truck/attachment combination is a responsibility of the original truck manufacturer and may be less than shown on the attachment nameplate. Consult the truck nameplate.

WARNING: Do not operate this attachment unless you are a trained and authorized lift truck driver.

CAUTION: This guide shows load handling procedures for most products. Ask your company or organization about any special procedures for the loads you may be handling.

Weighted Emission Sound Pressure Level - Weighted emission sound pressure level ($L_{\rho}A$) does not exceed 70 dB(A).

Measured Value of Whole Body Vibration - Measured value of whole body vibration (m/s^2) does not exceed 0,5 m/s^2.

Measured Value of Hand-Arm Vibration - Measured value of hand-arm vibration (m/s^2) does not exceed 2,5 m/s^2.

INTRODUCTION

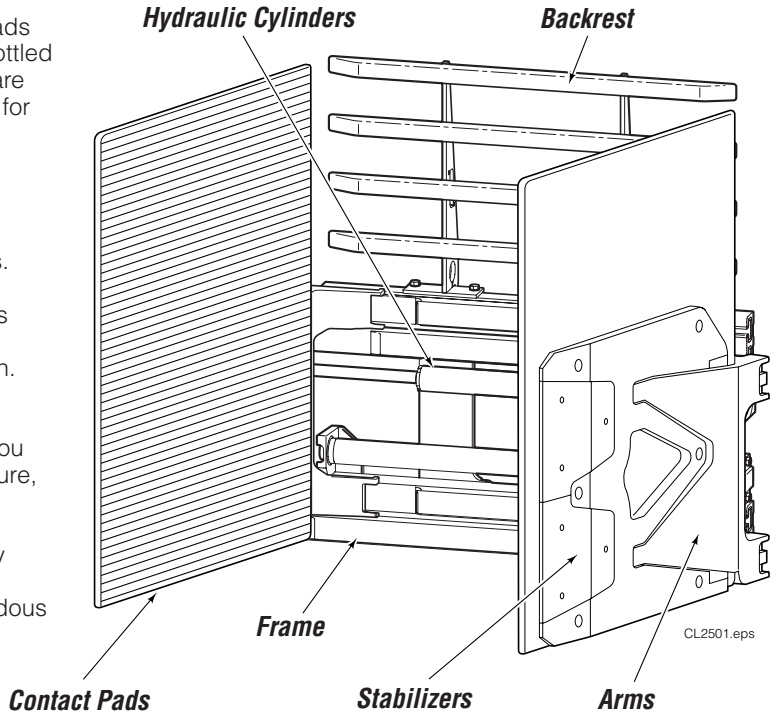
G & J-Series Carton Clamps – Cascade Carton Clamps are designed to handle unitized carton loads of a wide variety of products such as canned or bottled goods, soft case goods and appliances. Clamps are available in various pad sizes and load capacities for transport, stacking, loading and unloading of:

G-Series – 1,030 to 2,268 kg
J-Series – 800 to 2,200 kg

Carton Clamps can be sideshifting and can have grooved aluminum or rubber contact pad surfaces.

About this Guide – The information in this guide is intended to simplify operator understanding about effective and safe Carton Clamp use and operation. Read this guide thoroughly before operating the attachment. Be sure you know and understand all operating procedures and safety precautions. If you have any questions, or don't understand a procedure, ask your supervisor.

Emphasize Safety! Most accidents are caused by operator carelessness or misjudgment. You must watch for poorly maintained equipment and hazardous situations and correct them.



SAFETY RULES

Industrial Lift Trucks

No riders



No reaching through mast



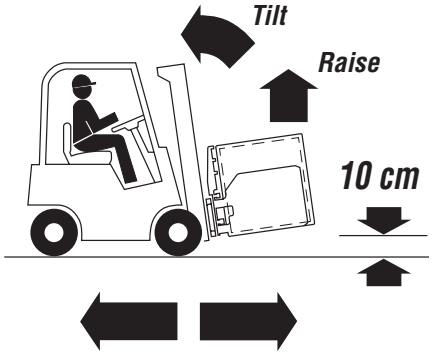
No standing under load



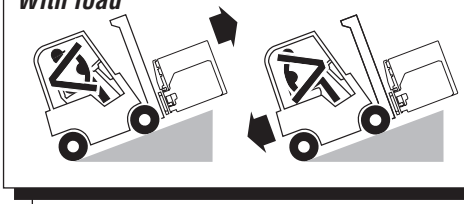
CL0090.eps

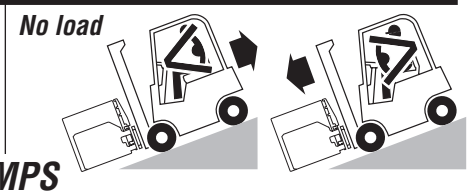


Motor off, park, lower load



Traveling empty





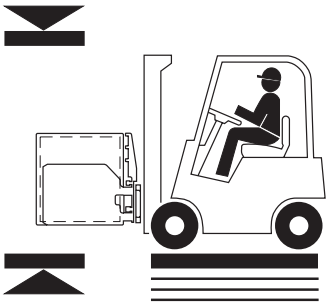
RAMPS



No parking on ramp



No turning on ramp



Watch clearances

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TRAFFIC



Observe



Workers



Stops



Wet floors



Bumps

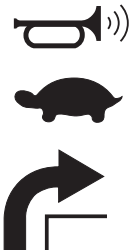
Dips



Slow for two-way traffic

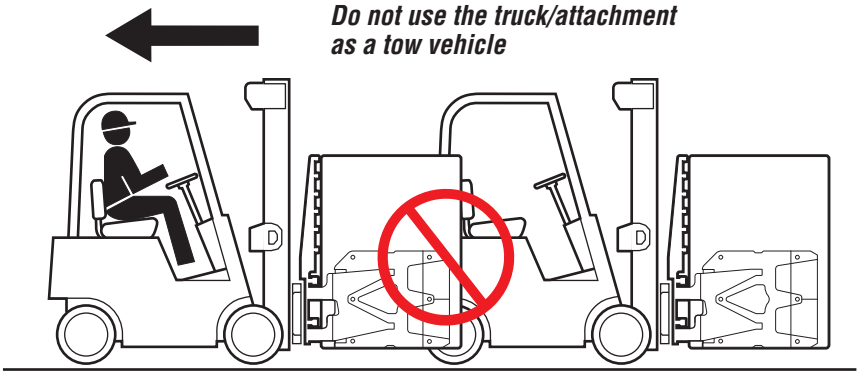


Sound horn, slow at intersection

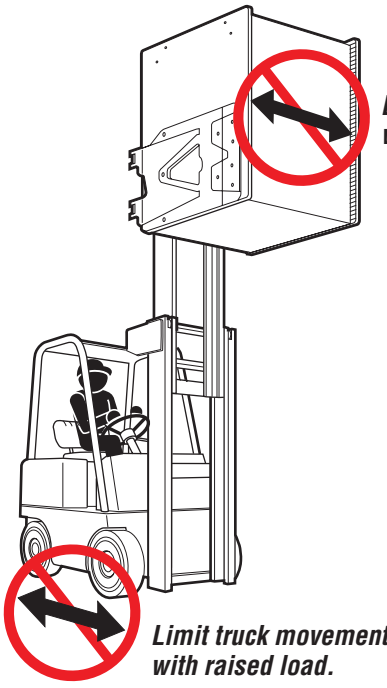


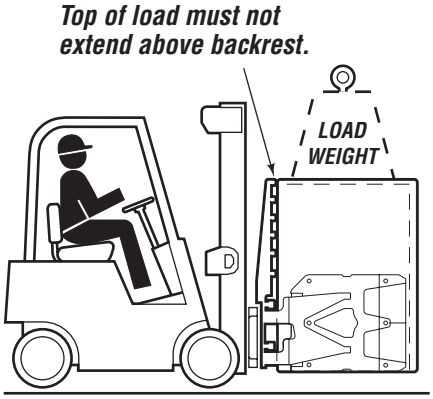
Sound horn, slow at corner

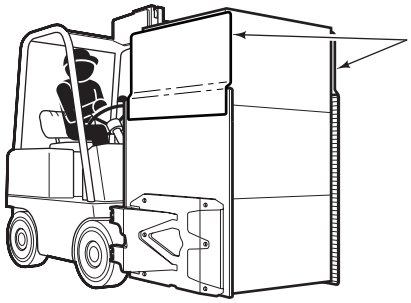
SAFETY RULES
Industrial Lift Trucks

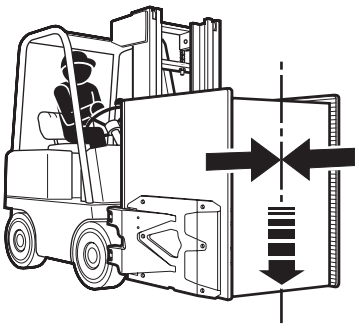


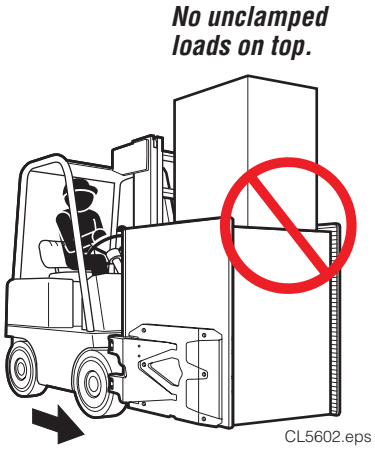
SAFETY RULES
Handling Loads









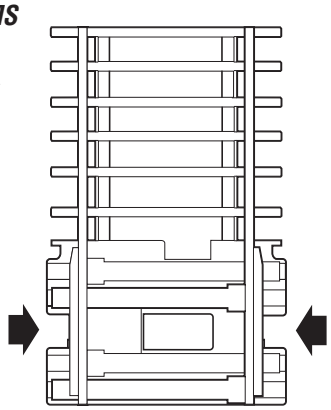


SAFETY RULES

Handling Loads

KEEP CLAMP ARMS INSIDE FRAME:

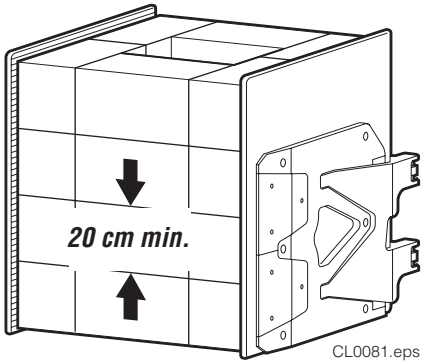
- *Traveling empty*
- *Going into trailers empty*
- *Backing out of trailers empty*



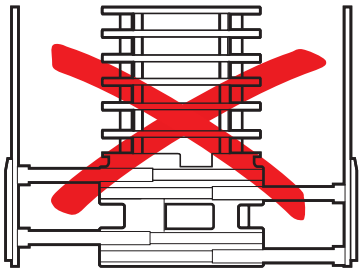
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STACK LOADS PROPERLY:

- *Square all cartons*
- *All cartons clamped*
- *All tiers same dimension*

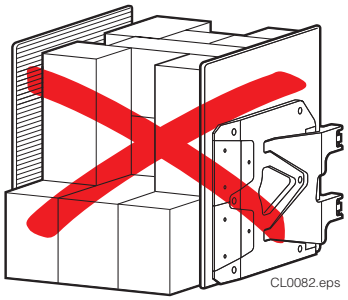


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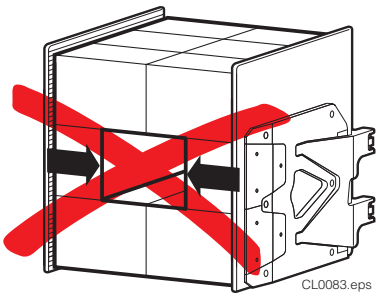
CL0049.eps

No extended arms without load



CL0082.eps

No loose cartons

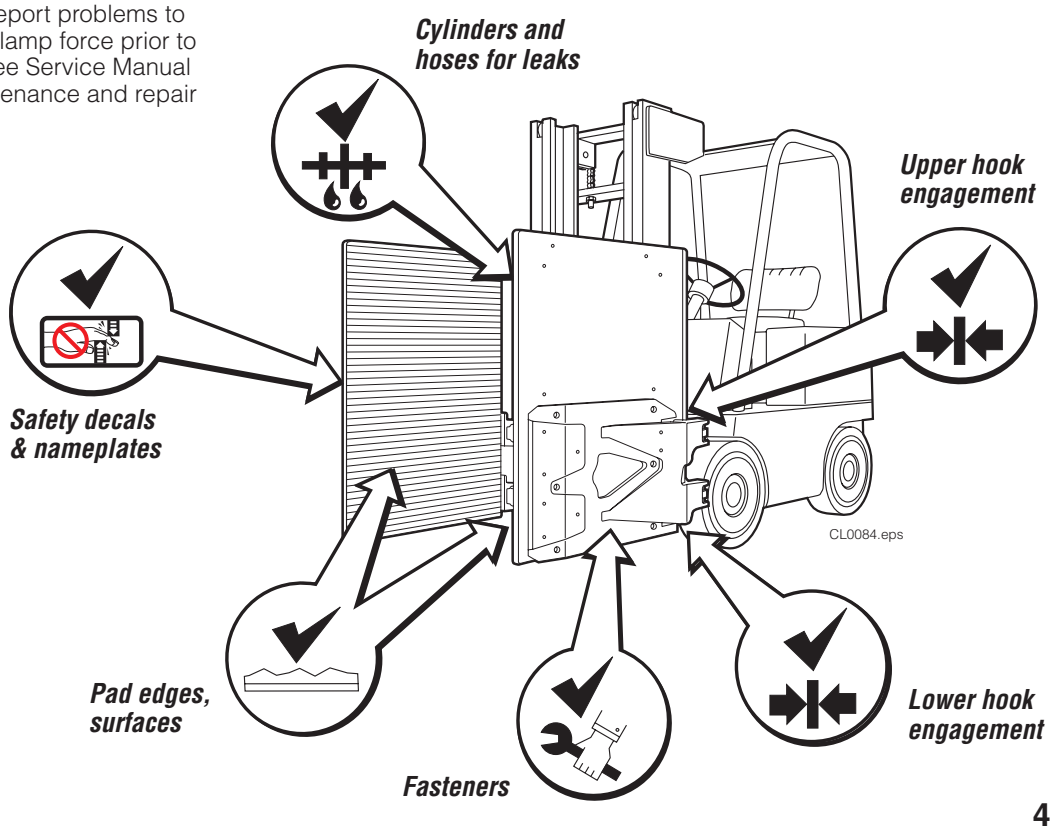


CL0083.eps

No voids in load

DAILY INSPECTION

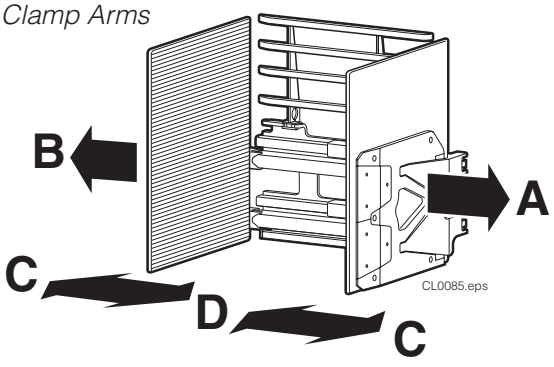
Check items each day. Report problems to your supervisor. Check clamp force prior to each operational shift. See Service Manual for troubleshooting, maintenance and repair procedures.



CL0084.eps

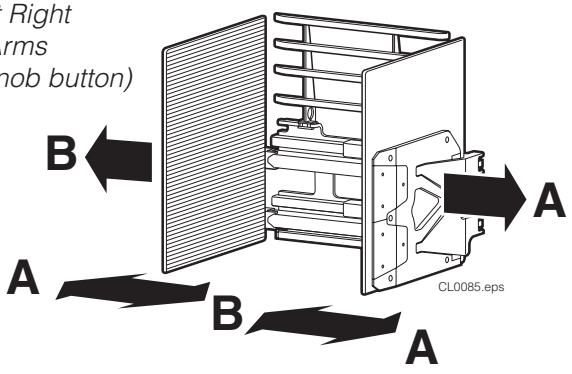
CLAMP/SIDESHIFT

- ***A*** *Sideshift Left*
- ***B*** *Sideshift Right*
- ***C*** *Release Arms*
- ***D*** *Clamp Arms*



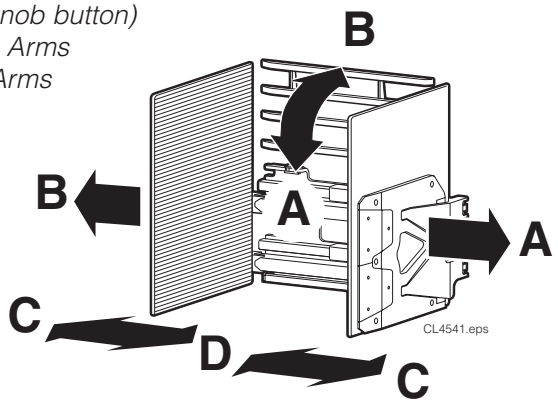
SIDESHIFTING WITH SOLENOID VALVE

- ***A*** *Sideshift Left*
- ***A*** *Release Arms (Press knob button)*
- ***B*** *Sideshift Right*
- ***B*** *Clamp Arms (Press knob button)*



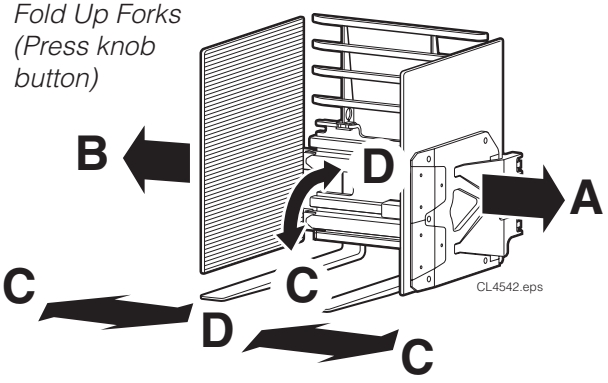
SIDESHIFTING WITH TIPPING

- ***A*** *Sideshift Left*
- ***A*** *Tip Forward (Press knob button)*
- ***B*** *Sideshift Right*
- ***B*** *Tip Back (Press knob button)*
- ***C*** *Release Arms*
- ***D*** *Clamp Arms*

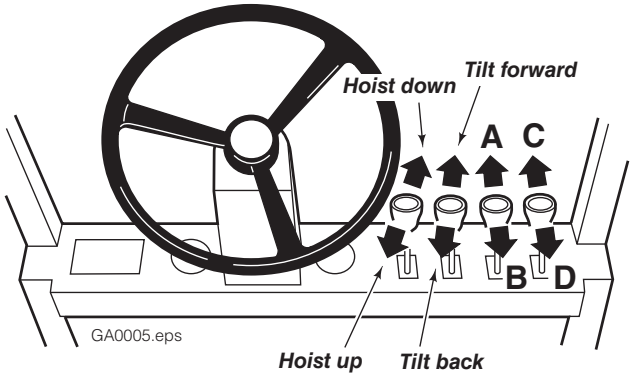


SIDESHIFTING WITH FOLD UP FORKS

- ***A*** *Sideshift Left*
- ***B*** *Sideshift Right*
- ***C*** *Release Arms*
- ***C*** *Unfold Forks (Press knob button)*
- ***D*** *Clamp Arms*
- ***D*** *Fold Up Forks (Press knob button)*



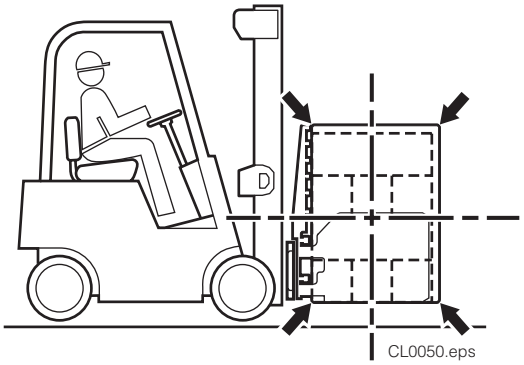
AUXILIARY VALVE FUNCTIONS



WARNING: Truck control handle and attachment function activation shown here conforms to ISO 3691 recommended practices. Failure to follow these practices may lead to serious bodily injury or property damage. End user, dealer and OEMs should review any deviation from the practices for safe operation.

CLAMPING LOADS

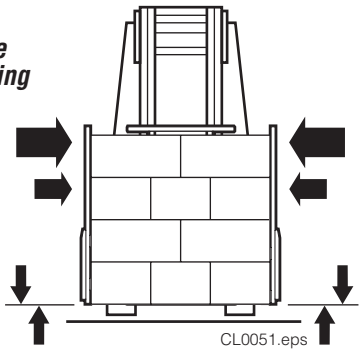
A) Clamp load squarely between pads



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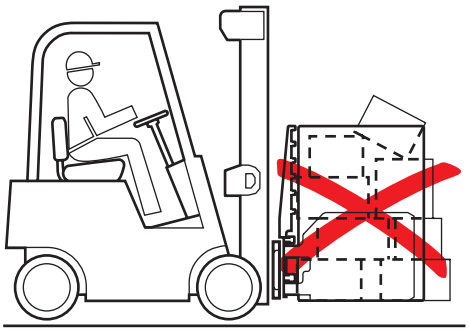
B) Pads must cover full cube of load

A) Use proper clamp force for load being handled



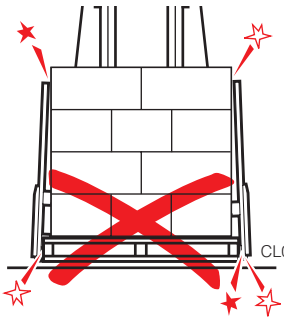
CL0051.eps

B) Align bottom of load or pallet with bottom of pad edges

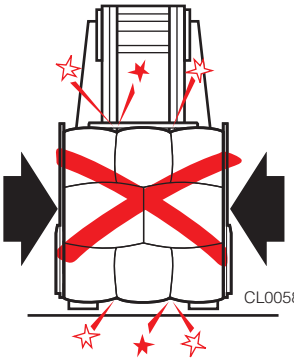


CL0053.eps

CAUTION: Avoid load/pad damage by making sure pallet is same size as load



CL0052.eps

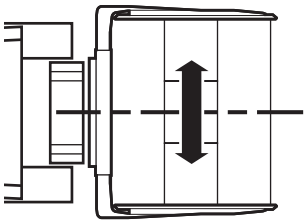


CL0058.eps

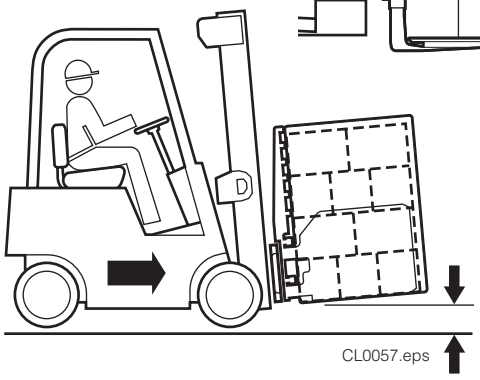
CARRYING LOADS

Center load, tilt back, raise clear of floor

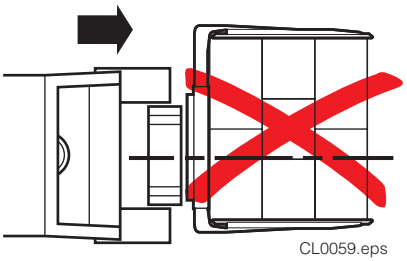
Tilt 3-4 °



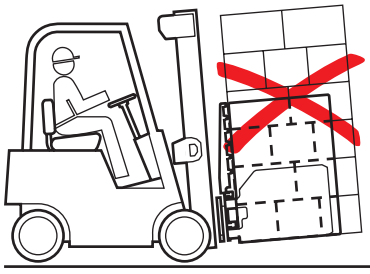
CL0055.eps



CL0057.eps



CL0059.eps

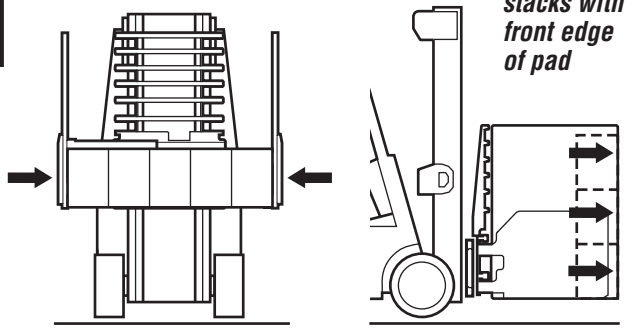


CL0054.eps

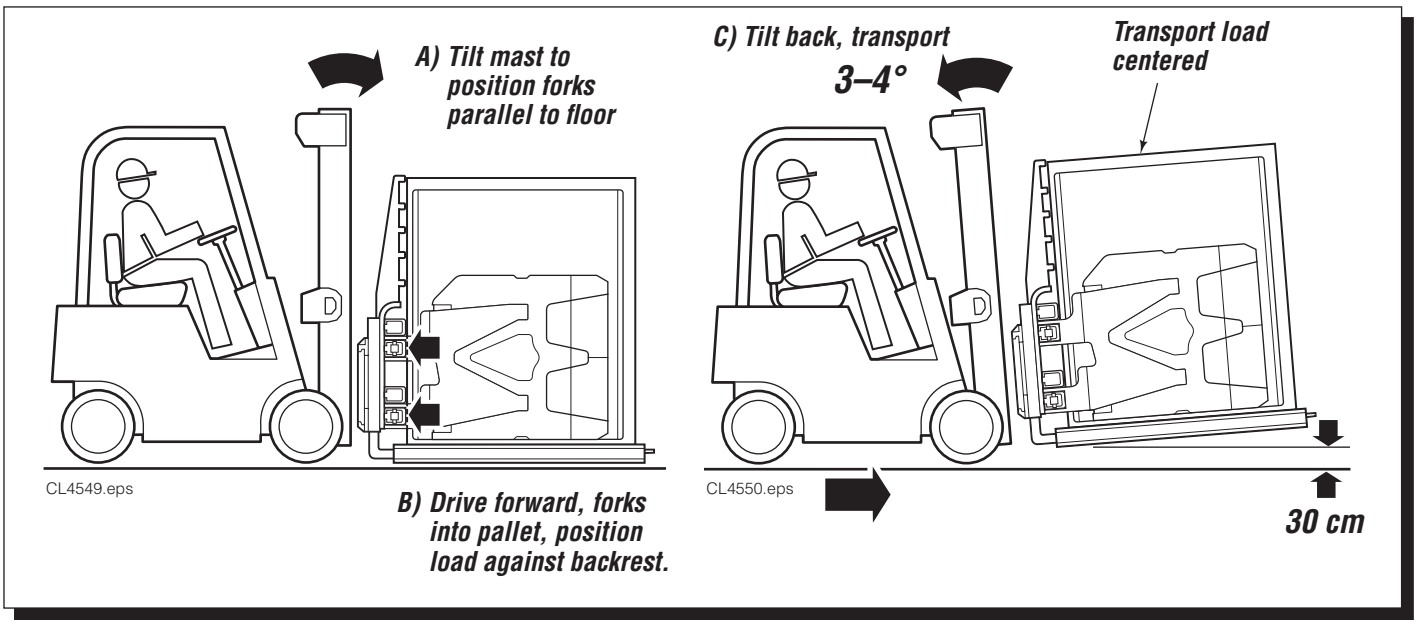
SKIMMING LOADS

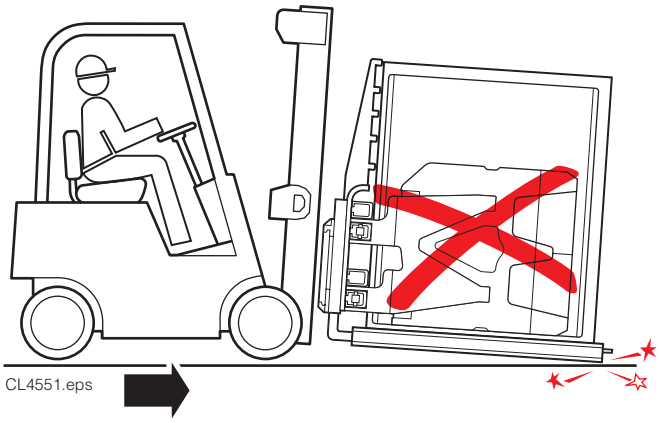
A) Use lower clamp pressure

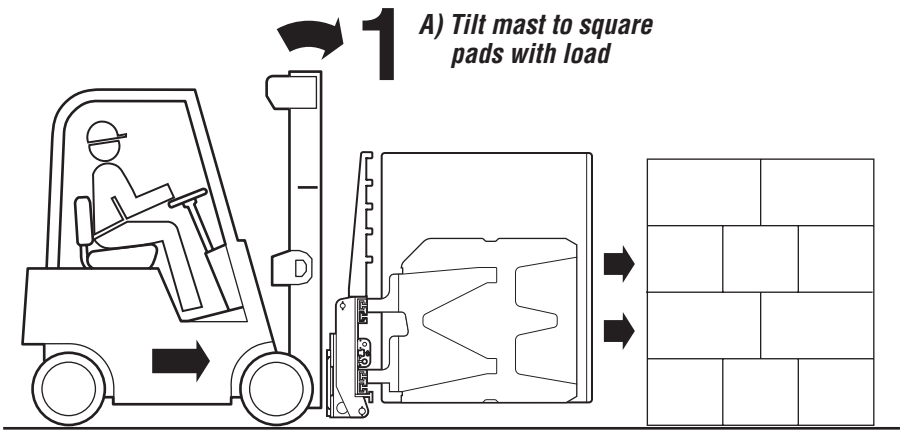
B) Align single stacks with front edge of pad



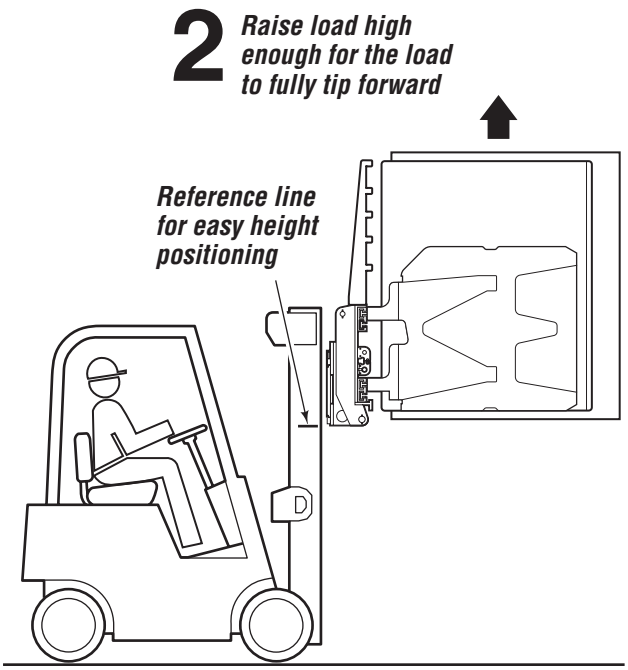
CL0056.eps


A) Tilt mast to position forks parallel to floor
B) Drive forward, forks into pallet, position load against backrest.
CL4549.eps
C) Tilt back, transport 3–4°
Transport load centered
30 cm
CL4550.eps

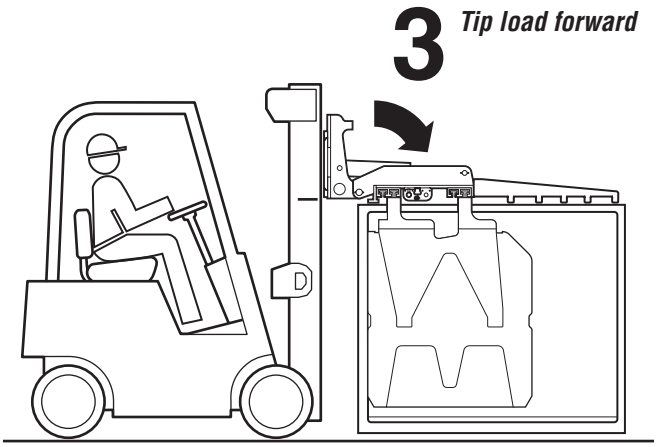

CL4551.eps



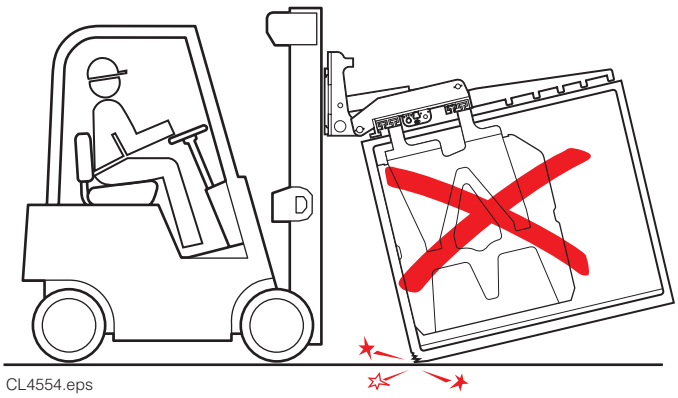
CL4552.eps



CL4572.eps



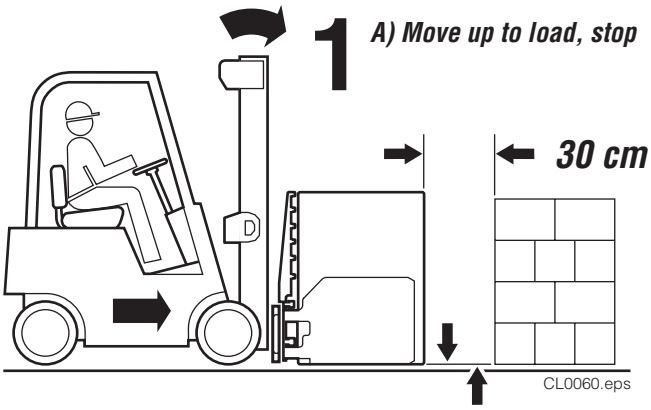
CL4553.eps



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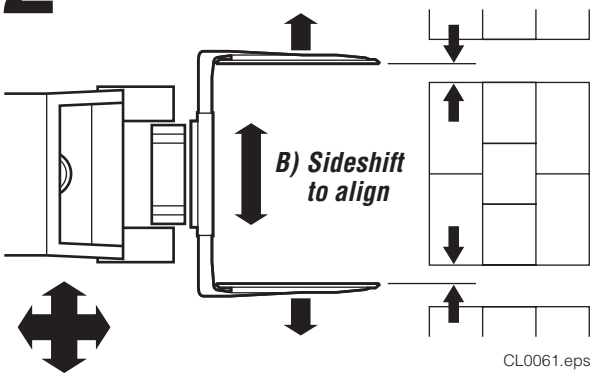
PICKING UP LOADS

1 *A) Move up to load, stop*

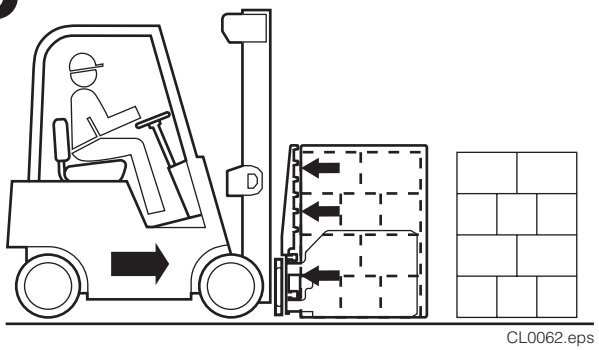


B) Align bottom of arms with bottom of load

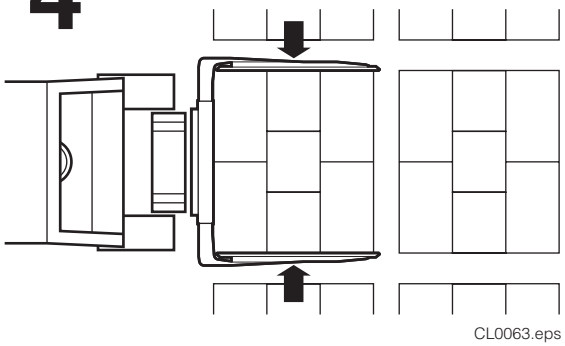
2 *A) Square truck to load, open arms for clearance*



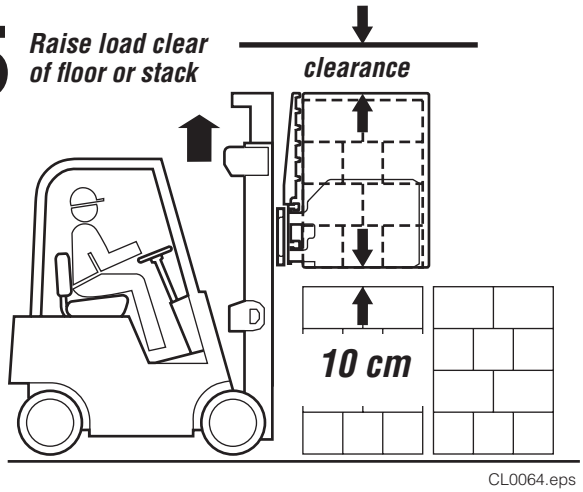
3 *Move forward, position load against backrest*



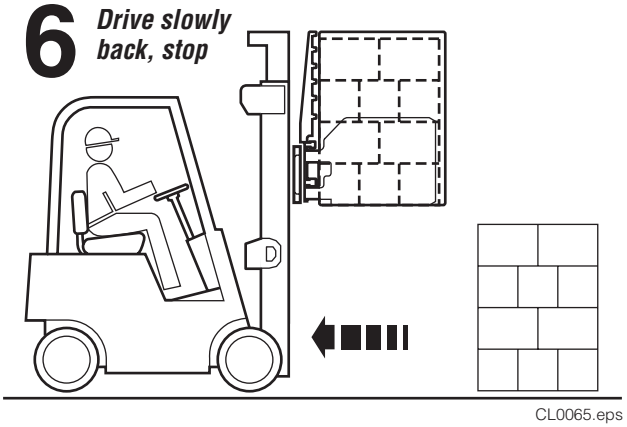
4 *Clamp using correct pressure*



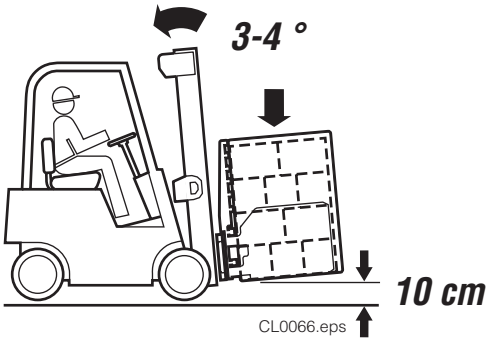
5 *Raise load clear of floor or stack*



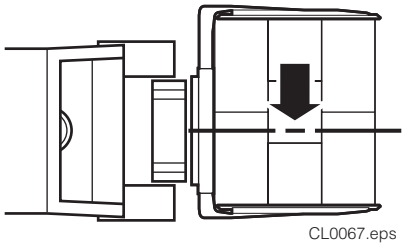
6 *Drive slowly back, stop*



7 *Lower, tilt back for transport*

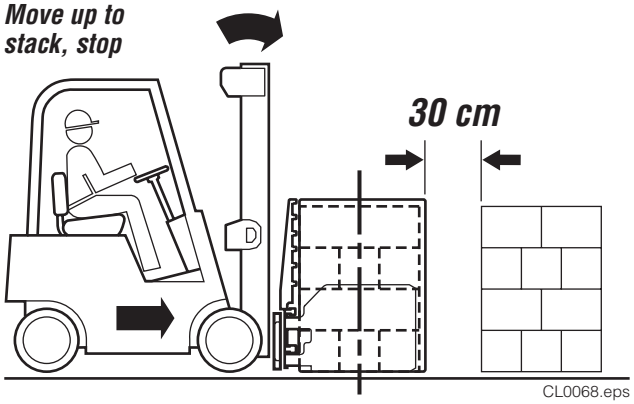


8 *Recenter load if sideshifted*



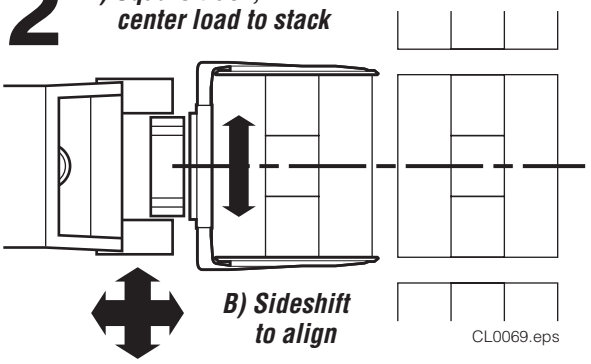
STACKING LOADS

1 *Move up to stack, stop*



CL0068.eps

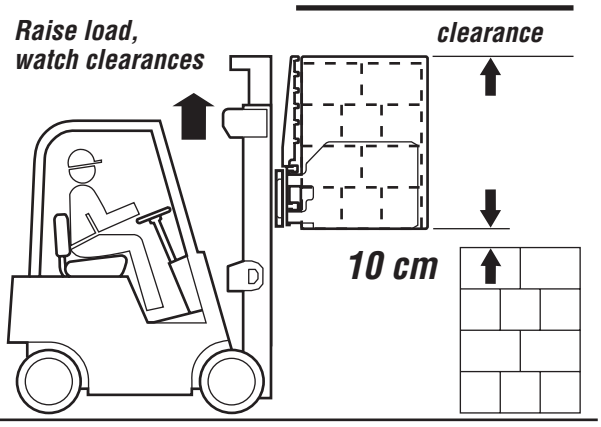
2 *A) Square truck, center load to stack*



B) Sideshift to align

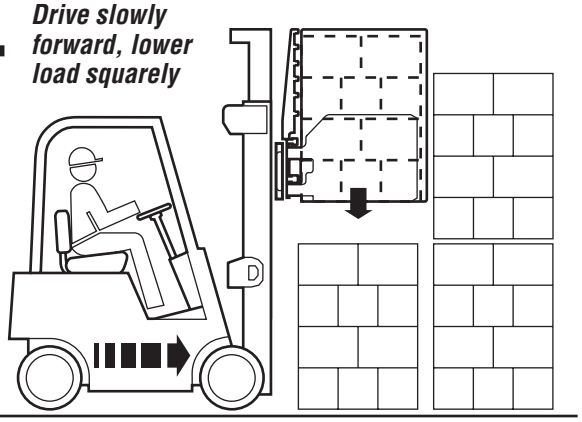
CL0069.eps

3 *Raise load, watch clearances*



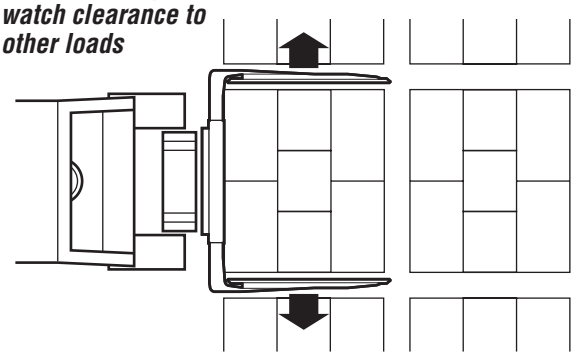
CL0070.eps

4 *Drive slowly forward, lower load squarely*



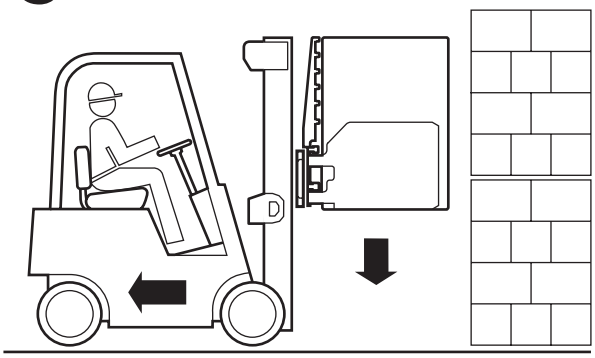
CL0071.eps

5 *Release Clamp, watch clearance to other loads*



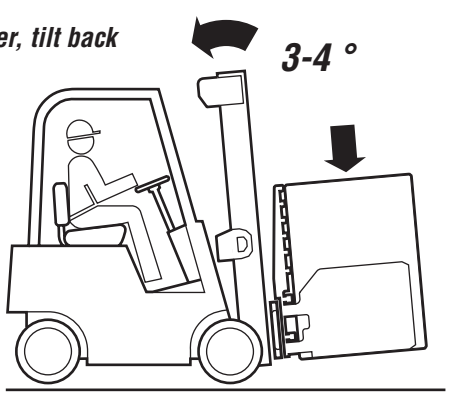
CL0072.eps

6 *Drive back to clear stack, lower Clamp*



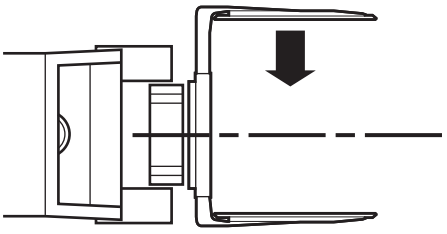
CL0073.eps

7 *Lower, tilt back*



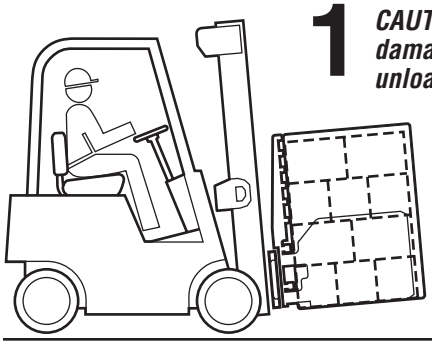
CL0074.eps

8 *Recenter Clamp if sideshifted*



CL0075.eps

1 *CAUTION: Inspect trailer for damage before loading or unloading*

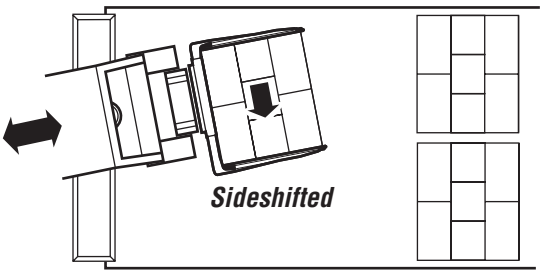


CL1171.eps

Dockplate required

CAUTION: Block trailer wheels

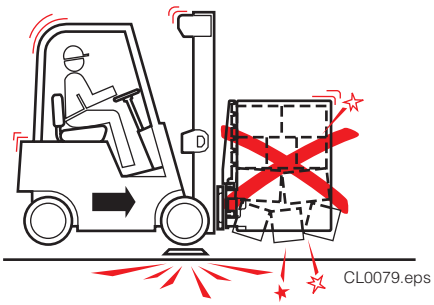
2 *Sideshift load or clamp away from wall before entering or leaving*



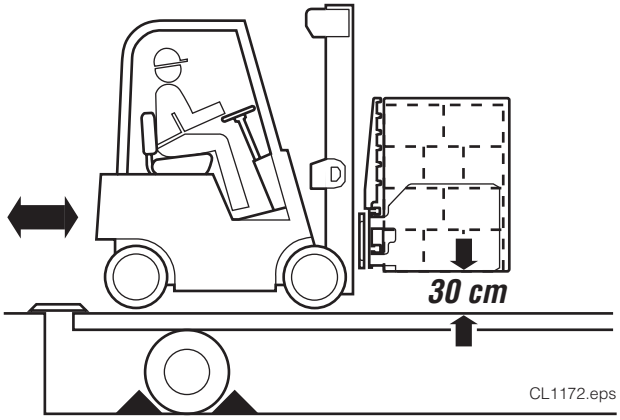
CL0076.eps

3 *Drive in center of trailer, brake slowly*

Slow over dockplate



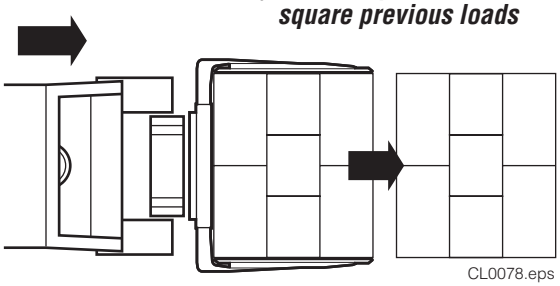
CL0079.eps



CL1172.eps

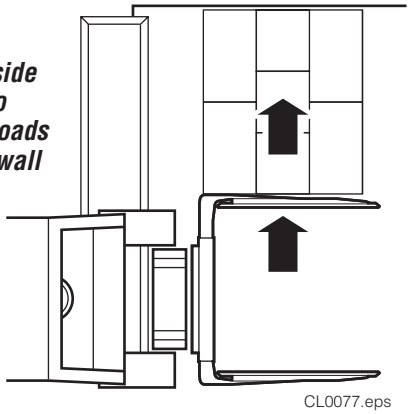
4 *Position loads inside trailer*

A) Use clamped load to square previous loads



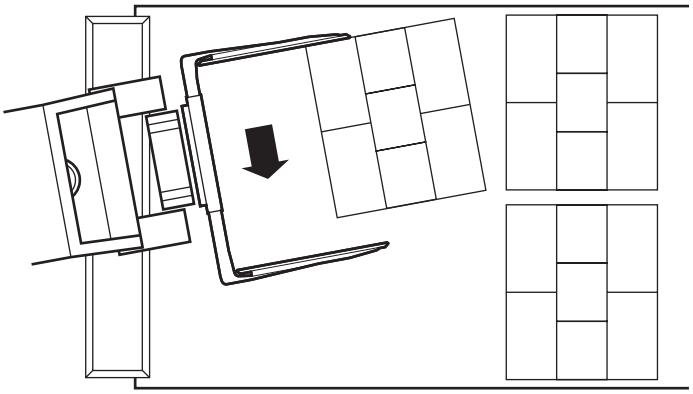
CL0078.eps

B) Use outside of arm to square loads against wall



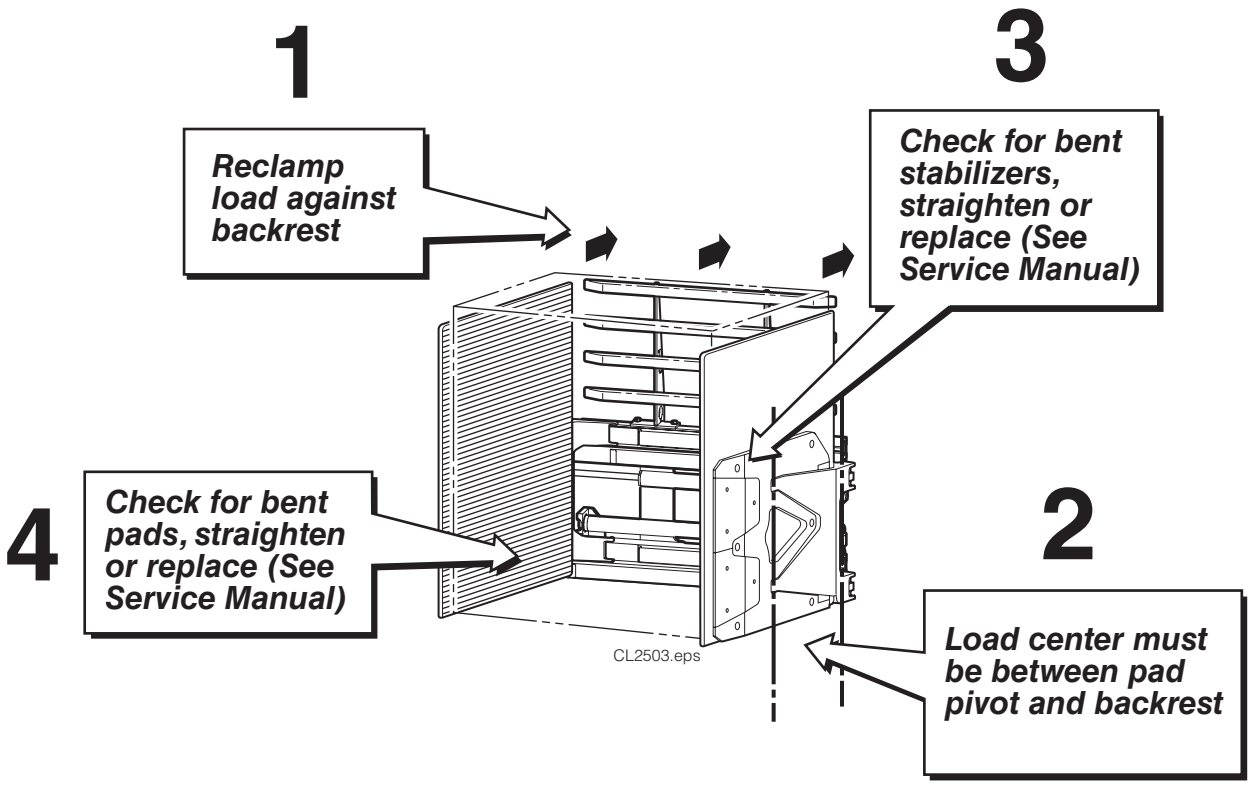
CL0077.eps

5 *Use pad edges for load breakout*

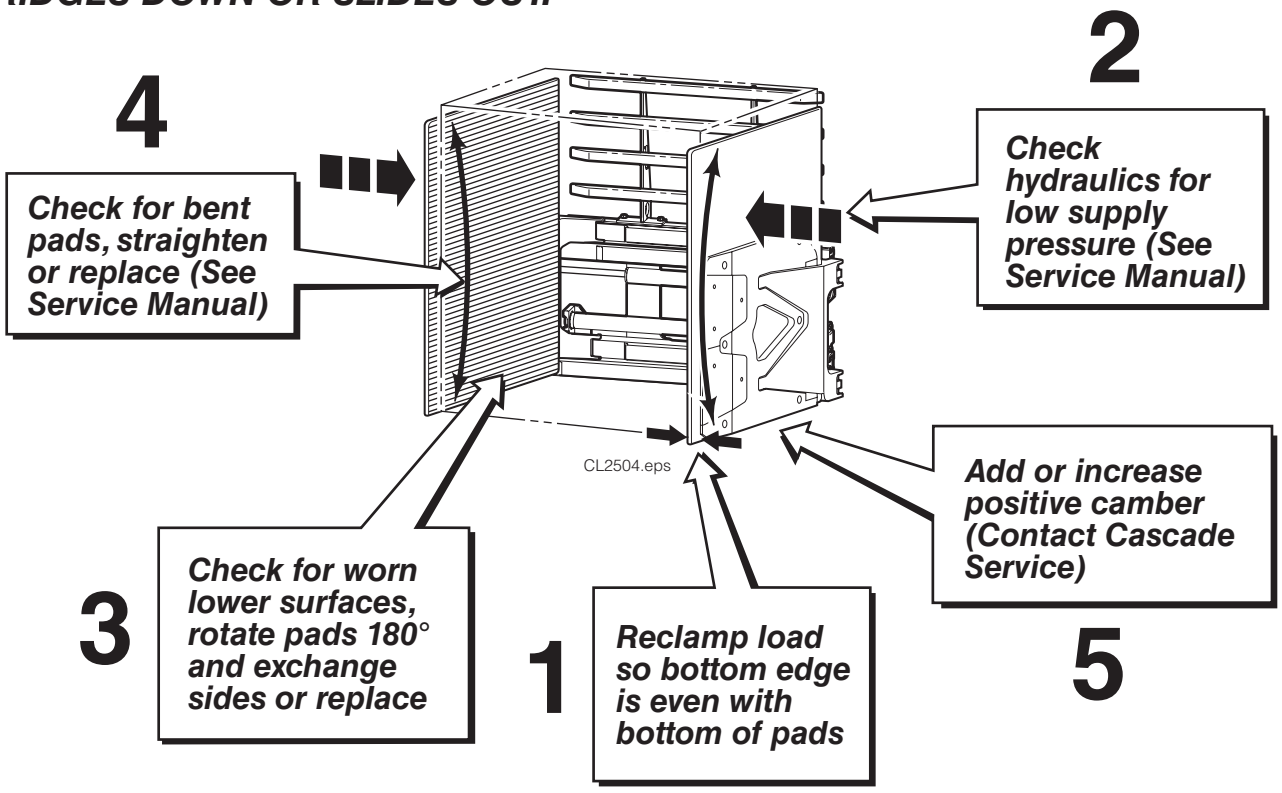


CL0080.eps

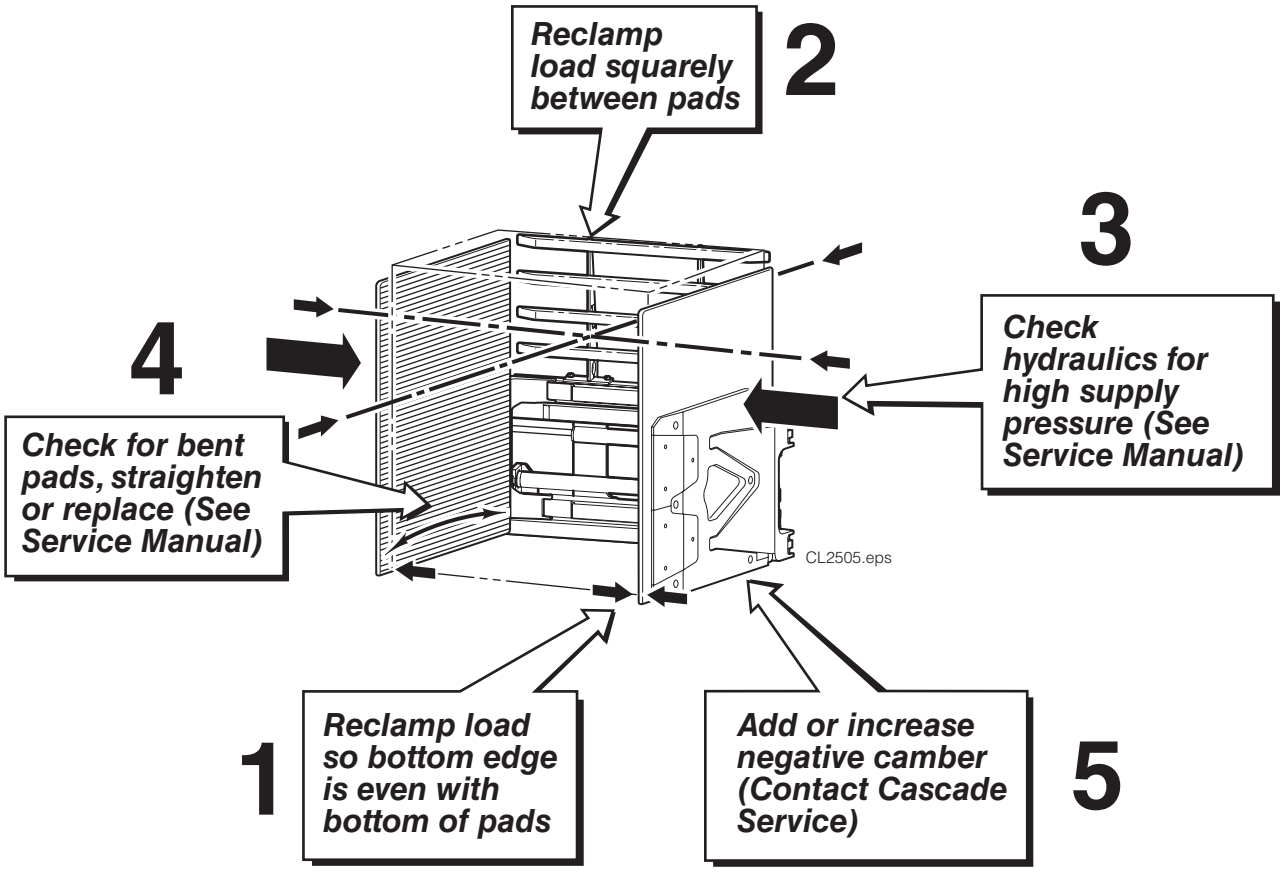
IF FRONT STACK OF LOAD TILTS OUT:



IF LOWER TIER OF LOAD BRIDGES DOWN OR SLIDES OUT:



IF LOWER TIER OF LOAD IS CREASED:



WARNING: When operating and maintaining industrial trucks equipped with attachments, you should pay particular attention to the following information. You should be familiar with this information for truck and attachment operation. **Ask your employer for complete operation information.**

General Requirement

Modifications and additions which affect capacity and safe operation shall not be performed by the customer or user without manufacturers prior written approval. Capacity, operation and maintenance instruction plates, tags or decals shall be changed accordingly.

If the truck is equipped with front-end attachments other than factory installed attachments, the user shall request that the truck be marked to identify the attachments and show the appropriate weight of the truck and attachment combination at maximum elevation with load laterally centered.

The user shall see that all nameplates and markings are in place and maintained in a legible condition.

Safety Guards

If the type of load presents a hazard, the user shall equip fork trucks with a vertical load backrest extension in accordance with the following.

All new powered industrial trucks acquired and used by an employer after February 15, 1972 shall meet the design and construction requirements for powered industrial trucks established in the “American National Standard for Powered Industrial Trucks, Part II, ANSI B56.1”, except for vehicles intended primarily for earth moving or over-the-road hauling.

Operator Training

Only trained and authorized operators shall be permitted to operate a powered industrial truck. Methods shall be devised to train operators in the safe operation of powered industrial trucks.

Truck Operations

Trucks shall not be driven up to anyone standing in front of a bench or other fixed object.

No person shall be allowed to stand or pass under the elevated portion of any truck, whether loaded or empty.

Unauthorized personnel shall not be permitted to ride on powered industrial trucks. A safe place to ride shall be provided where riding of trucks is authorized.

The employer shall prohibit arms or legs from being placed between the uprights of the mast or outside the running lines of the truck.

When a powered industrial truck is left unattended, load engaging means shall be fully lowered, controls shall be neutralized, power shall be shut off and brakes set. Wheels shall be blocked if the truck is parked on an incline.

A powered industrial truck is unattended when the operator is 7 meter or more away from the vehicle which remains in his view, or whenever the operator leaves the vehicle and it is not in his view.

When the operator of an industrial truck is dismounted and within 7 meter of the truck still in his view, the load engaging means shall be fully lowered, controls neutralized and the brakes set to prevent movement.

A safe distance shall be maintained from the edge of ramps or platforms while on any elevated dock or platform or freight car. Trucks shall not be used for opening or closing freight doors.

A load backrest extension shall be used whenever necessary to minimize the possibility of the load or part of it from falling rearward.

Traveling

The driver shall be required to slow down and sound the horn at cross isles and other locations where vision is obstructed. If the load being carried obstructs forward view, the driver shall be required to travel with the load trailing.

When ascending or descending grades in excess of 10 percent, loaded trucks shall be driven with the load upgrade.

On all grades the load and load engaging means shall be tilted back if applicable, and raised only as far as necessary to clear the road surface.

Loading

Only stable or safely arranged loads shall be handled. Caution shall be exercised when handling off-center loads which cannot be centered.

Only loads within the rated capacity of the truck shall be handled.

The long or high (including multiple-tiered) loads which may affect capacity shall be adjusted.

Trucks equipped with attachments shall be operated as partially loaded trucks when not handling a load.

A load engaging means shall be placed under the load as far as possible; the mast shall be carefully tilted backward to stabilize the load.

Extreme care shall be used when tilting the load forward or backward, particularly when high tiering. Tilting forward with load engaging means elevated shall be prohibited except to pick up a load. An elevated load shall not be tilted forward except when the load is in a deposit position over a rack or stack. When stacking or tiering, only enough backward tilt to stabilize the load shall be used.

Operation of the Truck

If at any time a powered industrial truck is found to be in need of repair, defective, or in any way unsafe, the truck shall be taken out of service until it has been restored to safe operating condition.

Maintenance of Industrial Trucks

Any power-operated industrial truck not in safe operating condition shall be removed from service. All repairs shall be made by authorized personnel.

All parts of any such industrial truck requiring replacement shall be replaced only by parts equivalent as to safety with those used in the original design.

Industrial trucks shall not be altered so that the relative positions of the various parts are different from what they were when originally received from the manufacturer, nor shall they be altered either by the addition of extra parts not provided by the manufacturer or by the elimination of any parts. Additional counter-weighting of fork trucks shall not be done unless approved by the truck manufacturer.

Industrial trucks shall be examined before being placed in service and shall not be placed in service if the examination shows any condition adversely affecting the safety of the vehicle. Such examinations shall be made at least daily. When industrial trucks are used on a round-the-clock basis, they shall be examined after each shift. Defects when found shall be immediately reported and corrected.

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