

0 *PERATOR'S GUIDE*

35E *QFM,TM*
45E *Push/Pull and*
Load Push

Manual Number 684945-R5

cascade[®]
corporation

Cascade is a registered Trademark of Cascade Corporation

C ONTENTS

Introduction	i
Safety Rules	1
Daily Inspection	2
Attachment Operation	2
Slipsheet Loads	3
Loads with Torn Slipsheet Tabs	3
Loading	4
Loading from Floor	4
Loading from Pallets	4
Loading from Stacks	5
Loading from Truck Trailers	5
Unloading	6
Unloading on Stacks	6
Unloading on Pallets	6
Pallet Boards In Line with Push Direction	6
Unloading on Pallets	7
Pallet Boards Opposite Push Direction	7
Unloading into Truck Trailers	7
Sheet-Sav® Operation	8
Attachment Removal – QFM™	8
Attachment Installation – QFM™	9
Platen Adjustment	9
Faceplate Stop Adjustment	10
Safe Operation and Maintenance	11
OSHA Regulations	11



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.

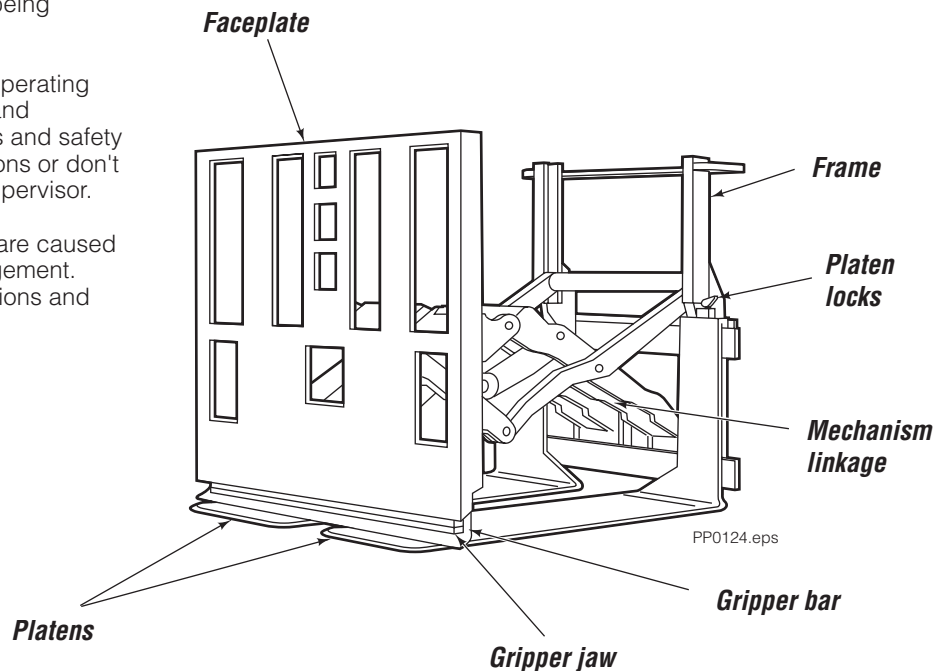
WARNING: Do not operate this attachment unless you are a **trained and authorized** lift truck driver.

INTRODUCTION

This guide contains operating instructions for **cascade®** 35E/45E Load Push/Pulls. It will help avoid common errors which often cause damage to the equipment or loads being handled.

Read this manual 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 misjudgement. You must watch for hazardous situations and correct them.



S SAFETY RULES

No riders



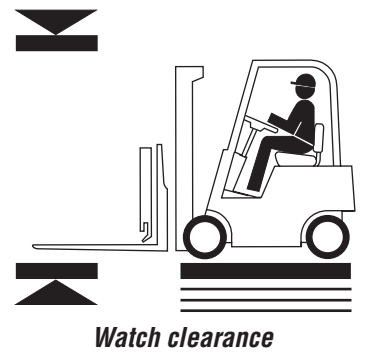
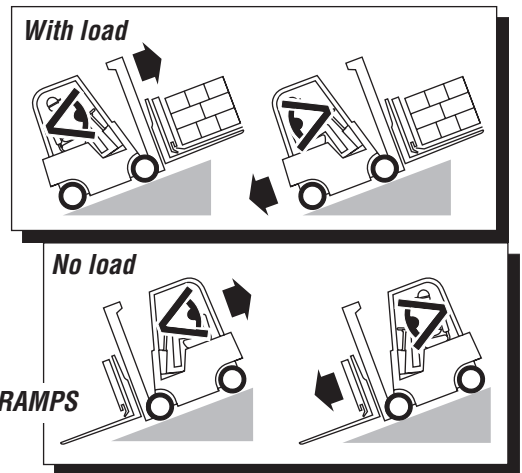
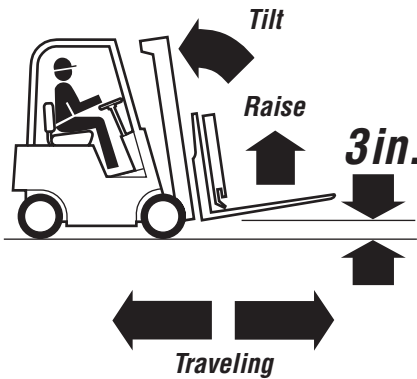
No reach through mast



No standing under load



PP0125.eps

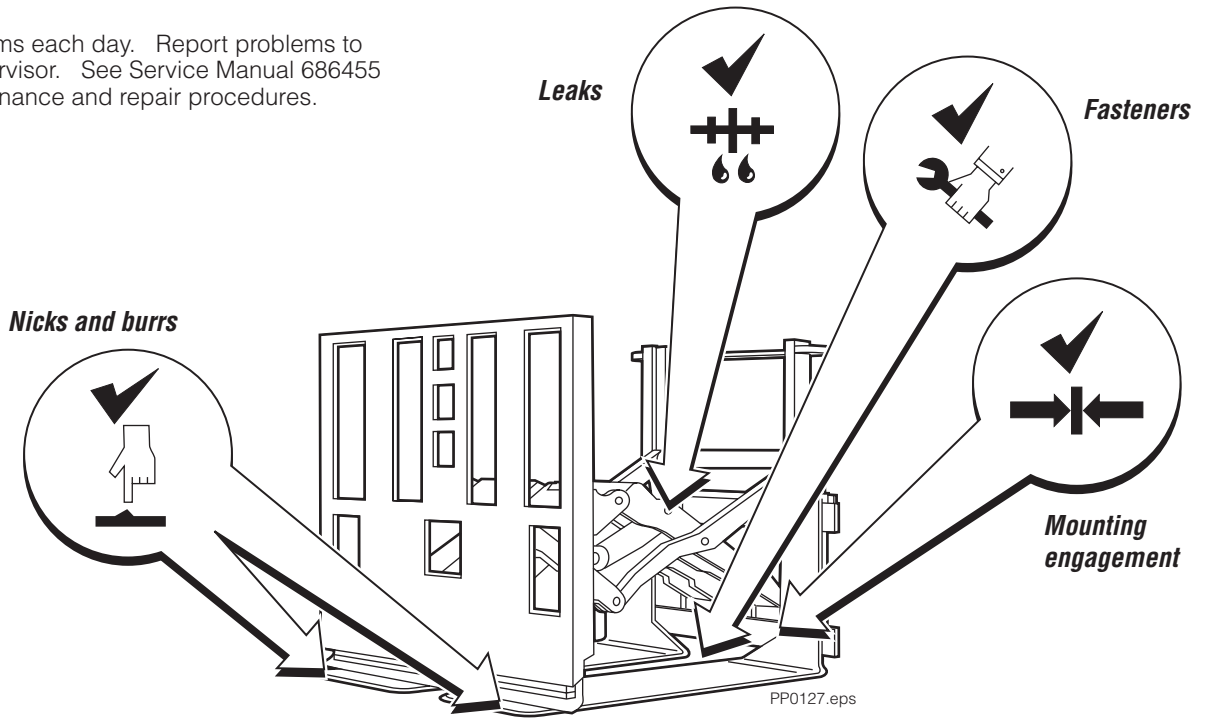


PP0383.eps

<p>TRAFFIC</p> <p>Observe</p> <p>Workers</p> <p>Stops</p>			<p>Slow for two way traffic</p>	<p>Sound horn, slow at intersection</p>	<p>Sound horn, slow at corner</p>
<p>Wet floors</p>	<p>Bumps</p>	<p>Dips</p>			

DAILY INSPECTION

Check items each day. Report problems to your supervisor. See Service Manual 686455 for maintenance and repair procedures.



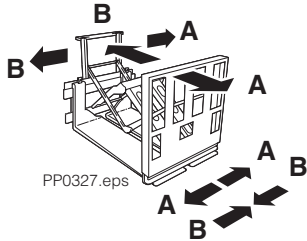
A TTACHMENT OPERATION

SOLENOID EQUIPPED ATTACHMENTS

PUSH/PULL

LOAD PUSH

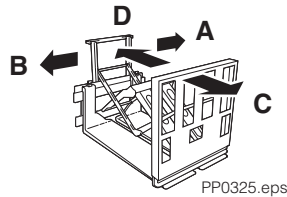
- A Sideshift left
- A Faceplate push (press button 1)
- A Position platens-out (press button 2)
- B Sideshift right
- B Faceplate retract/pull (press button 1)
- B Position platens-in (press button 2)
- C Not used
- D Not used



PUSH/PULL WITH SIDESHIFT

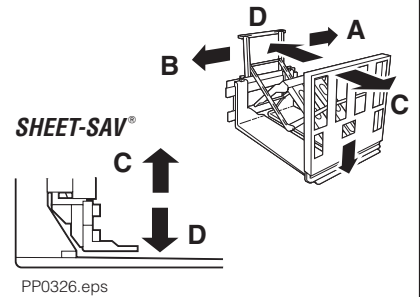
LOAD PUSH WITH SIDESHIFT

- A Sideshift left
- B Sideshift right
- C Faceplate push
- D Faceplate retract/pull



PUSH/PULL WITH SHEET-SAV®

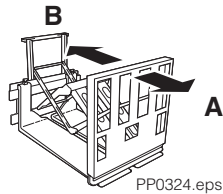
- A Sideshift left
- B Sideshift right
- C Faceplate push
- C Sheet-Sav®-lift (press button)
- D Faceplate retract/pull
- D Sheet-Sav®-retain (press button)



PUSH/PULL

LOAD PUSH

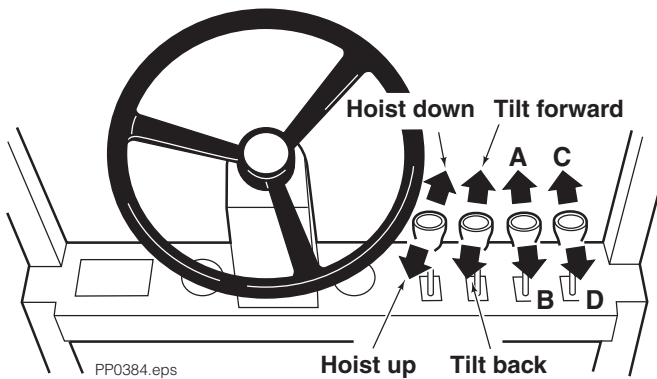
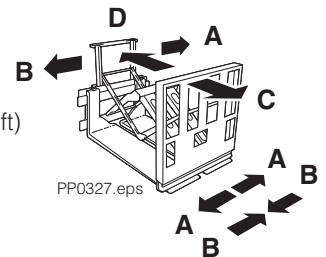
- A Faceplate push
- B Faceplate retract/pull
- C Not used
- D Not used



SEQUENCE VALVE EQUIPPED

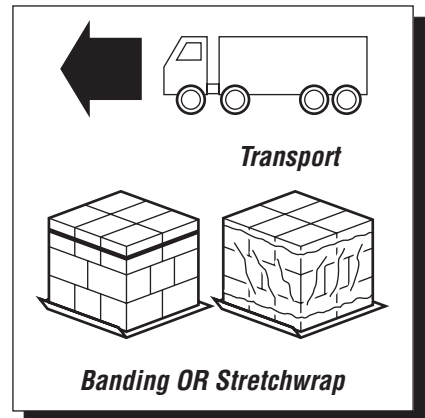
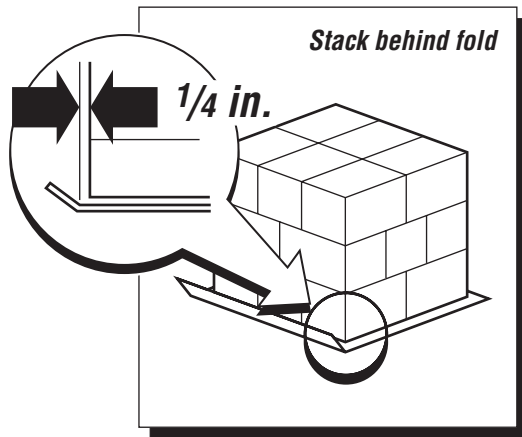
ATTACHMENTS

- A Sideshift left
- A Position platens-out (after complete sideshift left)
- B Sideshift right
- B Position platens-in (after complete sideshift right)
- C Faceplate Push
- D Faceplate Retract

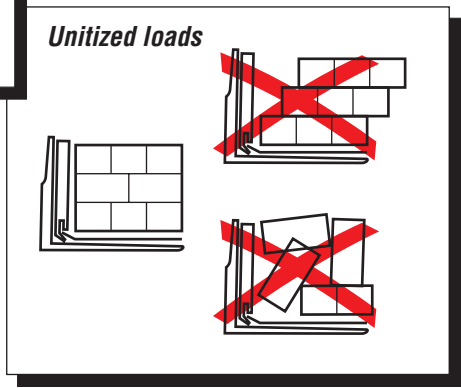
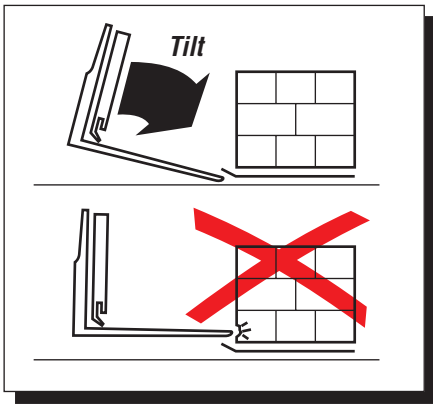


WARNING: Truck control handle and attachment function activation shown here conforms to ASME/ANSI B56.1 recommended practices. Failure to follow these practices may lead to serious bodily injury or property damage. End user, dealer and OEMs should review any deviation from the practices for safe operation.

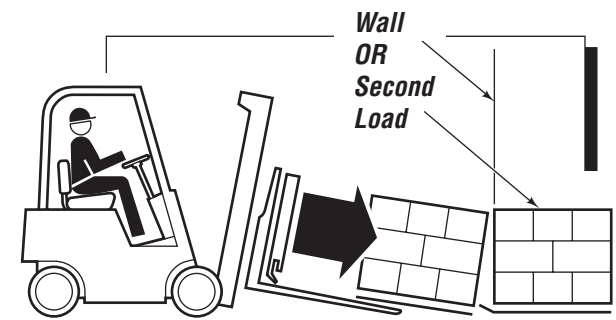
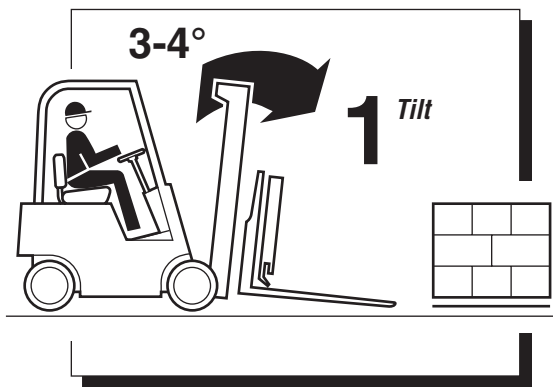
S LIPSHEET LOADS



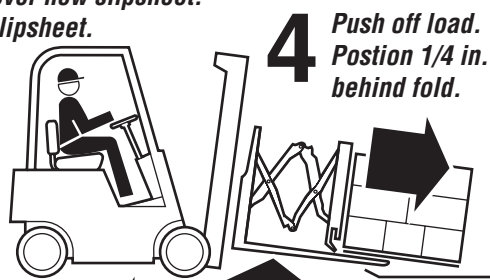
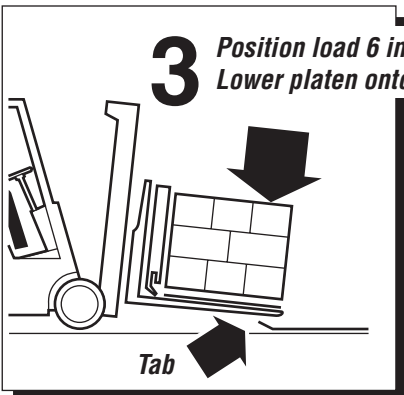
PP0129.eps



Loads with Torn Slip sheet Tab



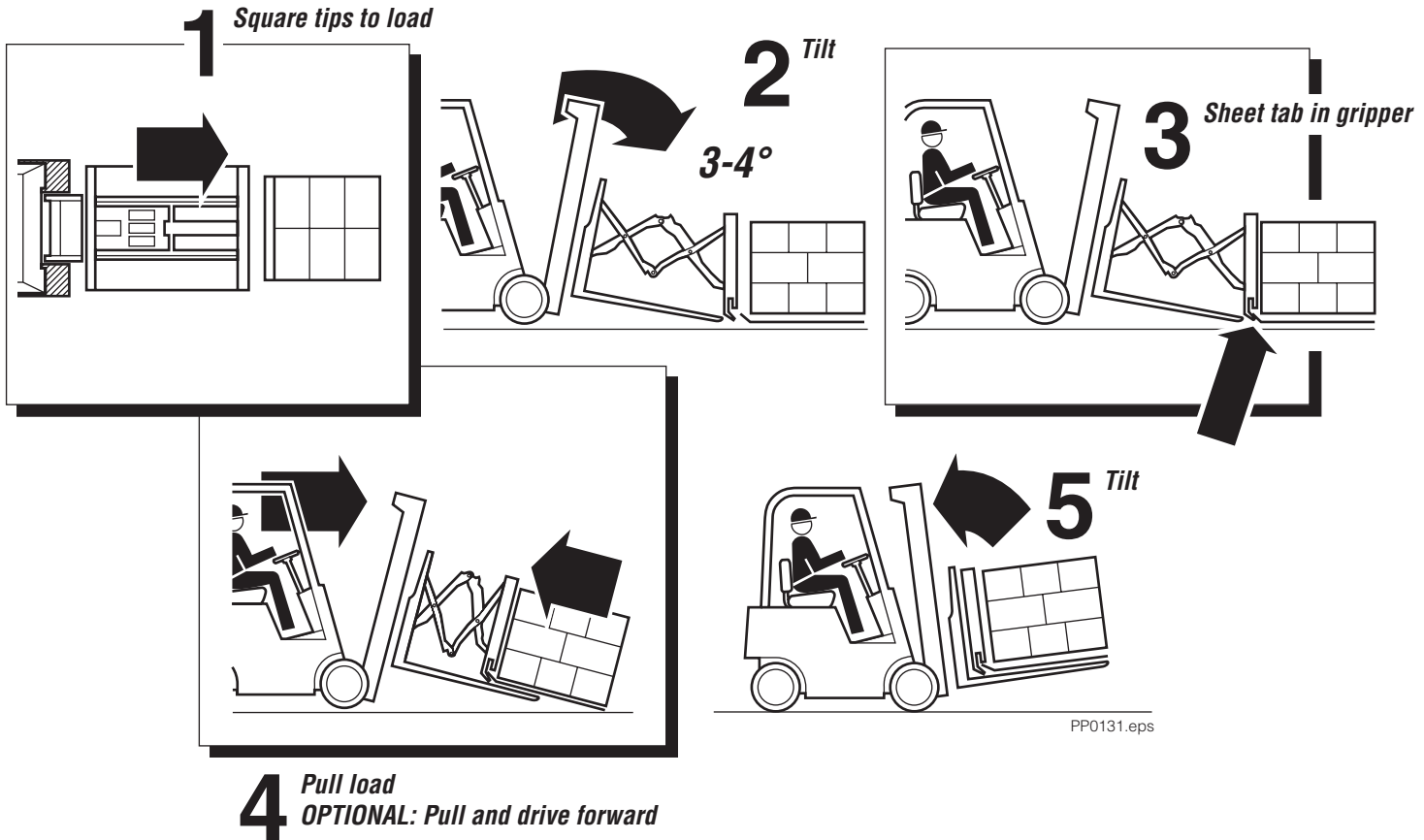
2 Wedge both tips under slip sheet. Drive forward.



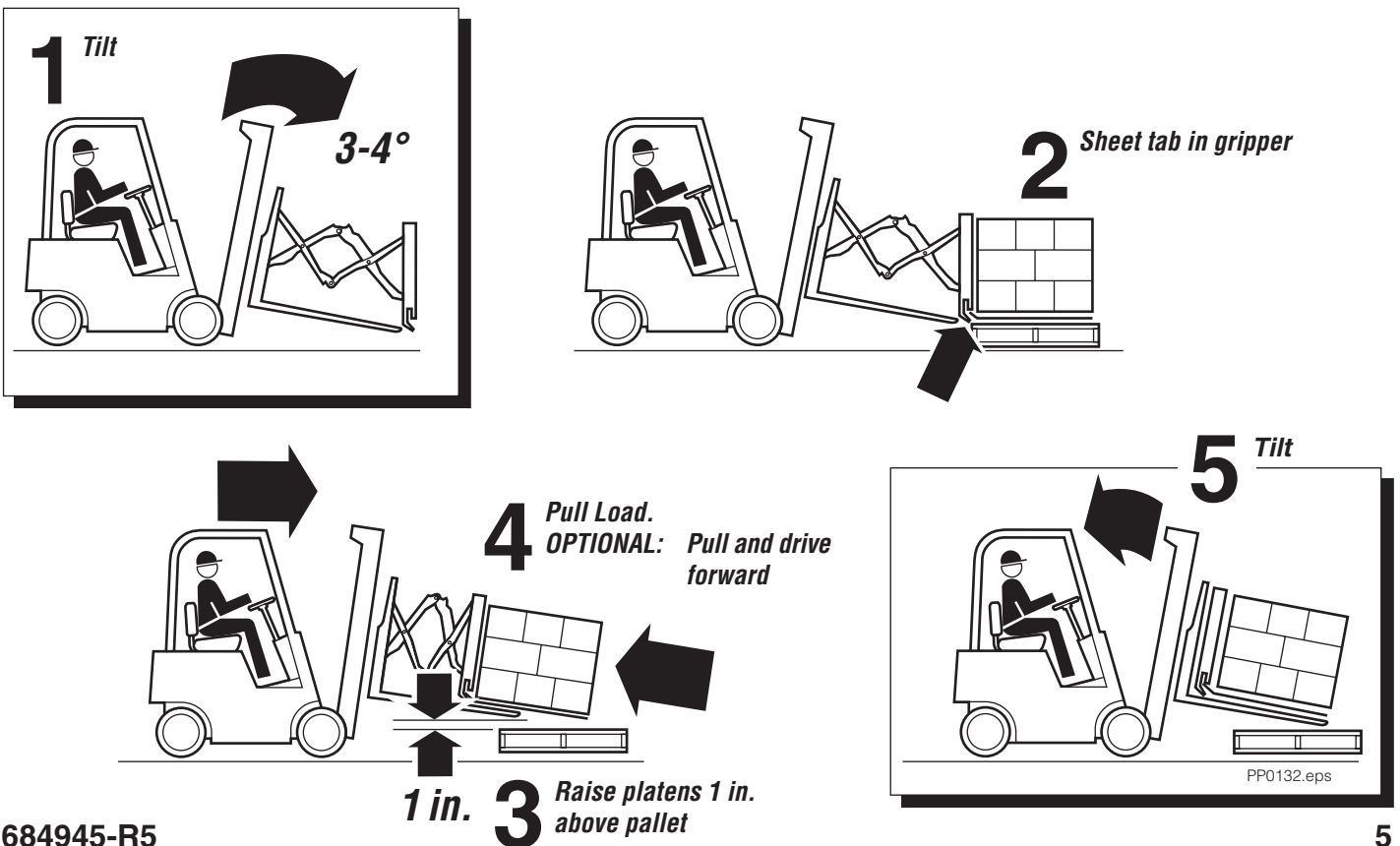
5 Raise platen. Drive in reverse

PP0130.eps

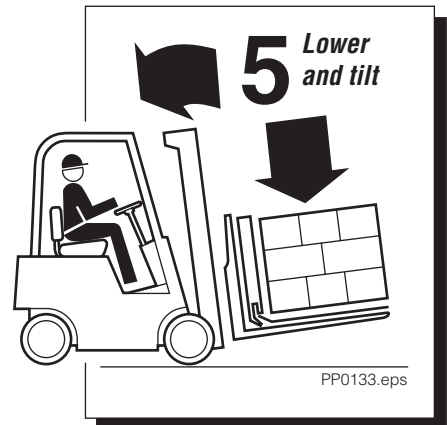
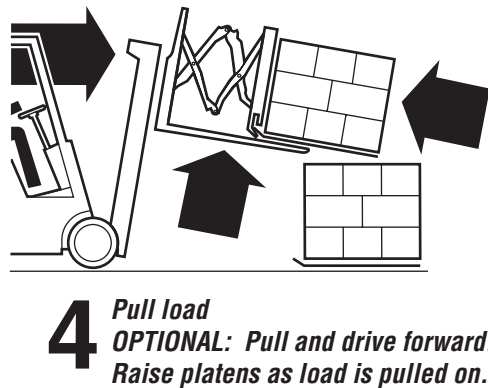
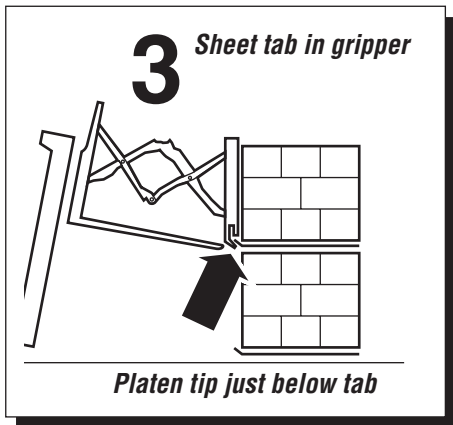
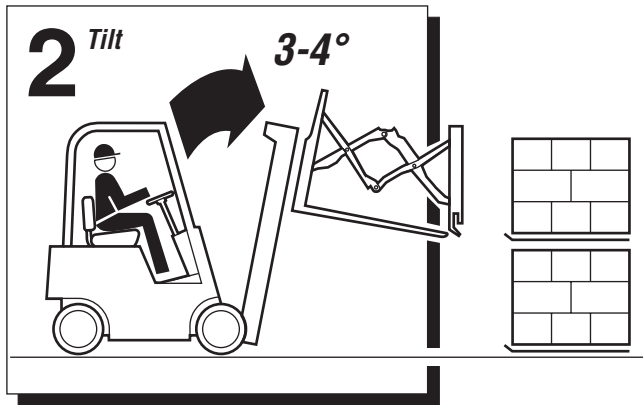
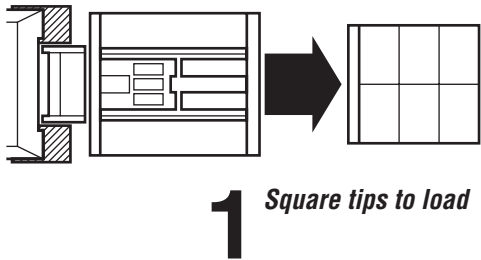
L OADING FROM FLOOR



L OADING FROM PALLETS

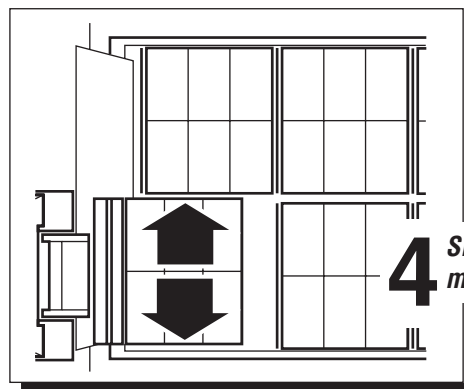
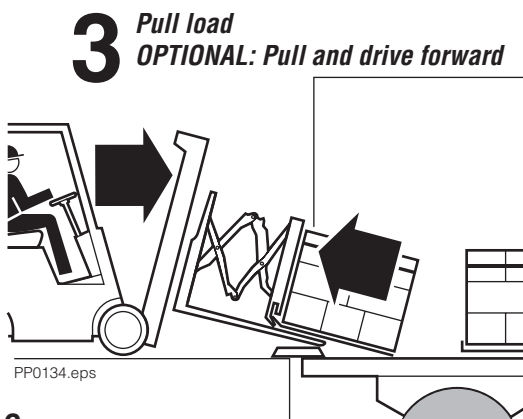
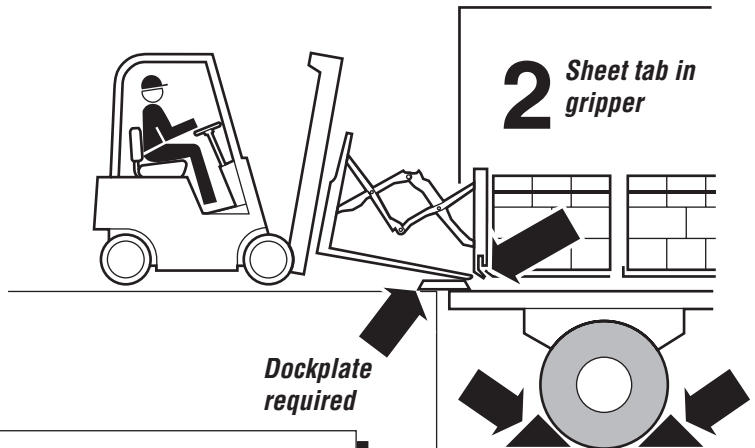
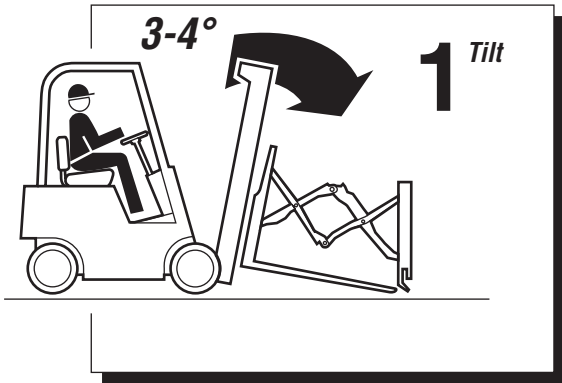


L OADING FROM STACKS



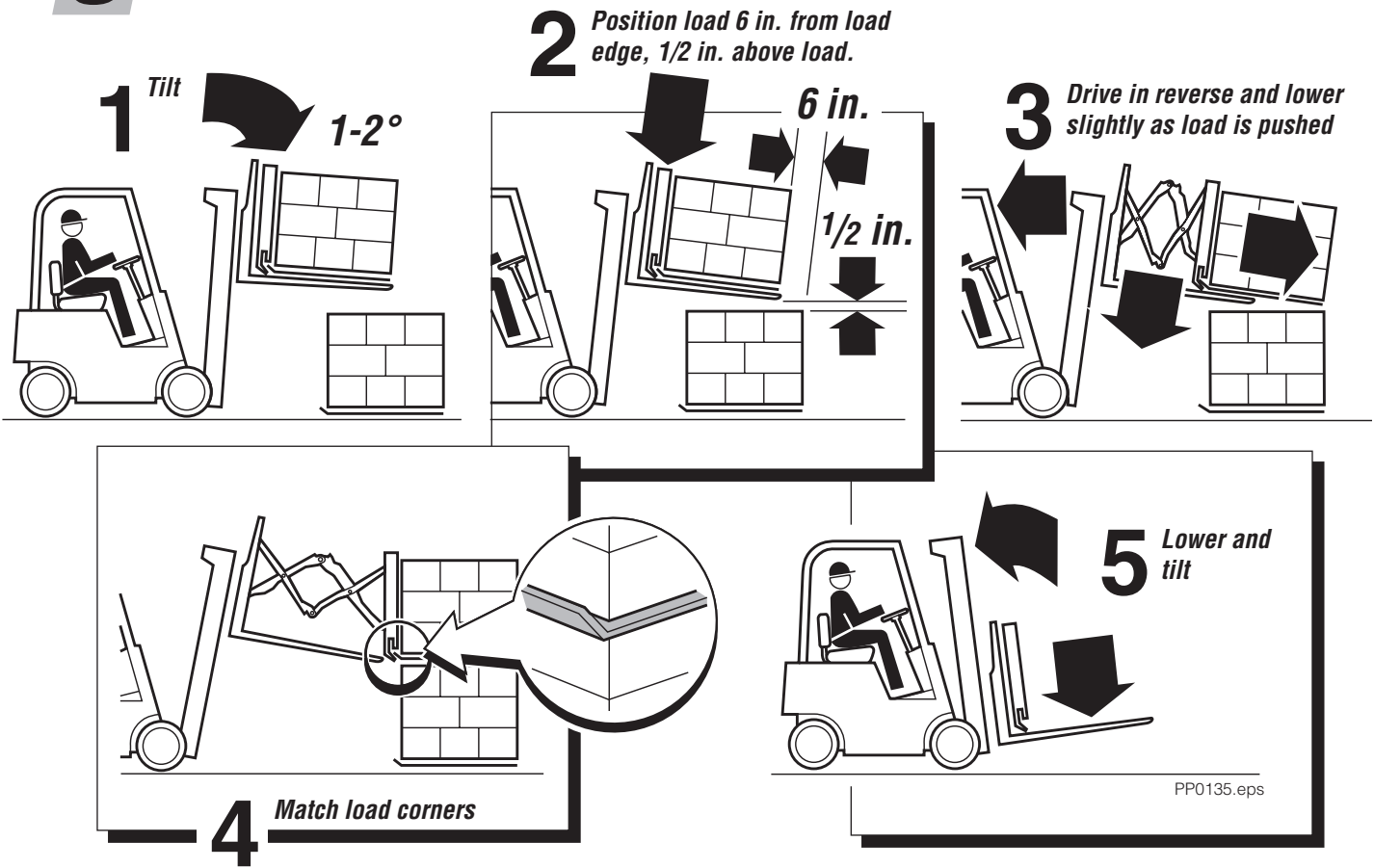
L OADING FROM TRUCK TRAILERS

CAUTION: Level trailer with dock. Watch for nails or screws on trailer floor and walls.



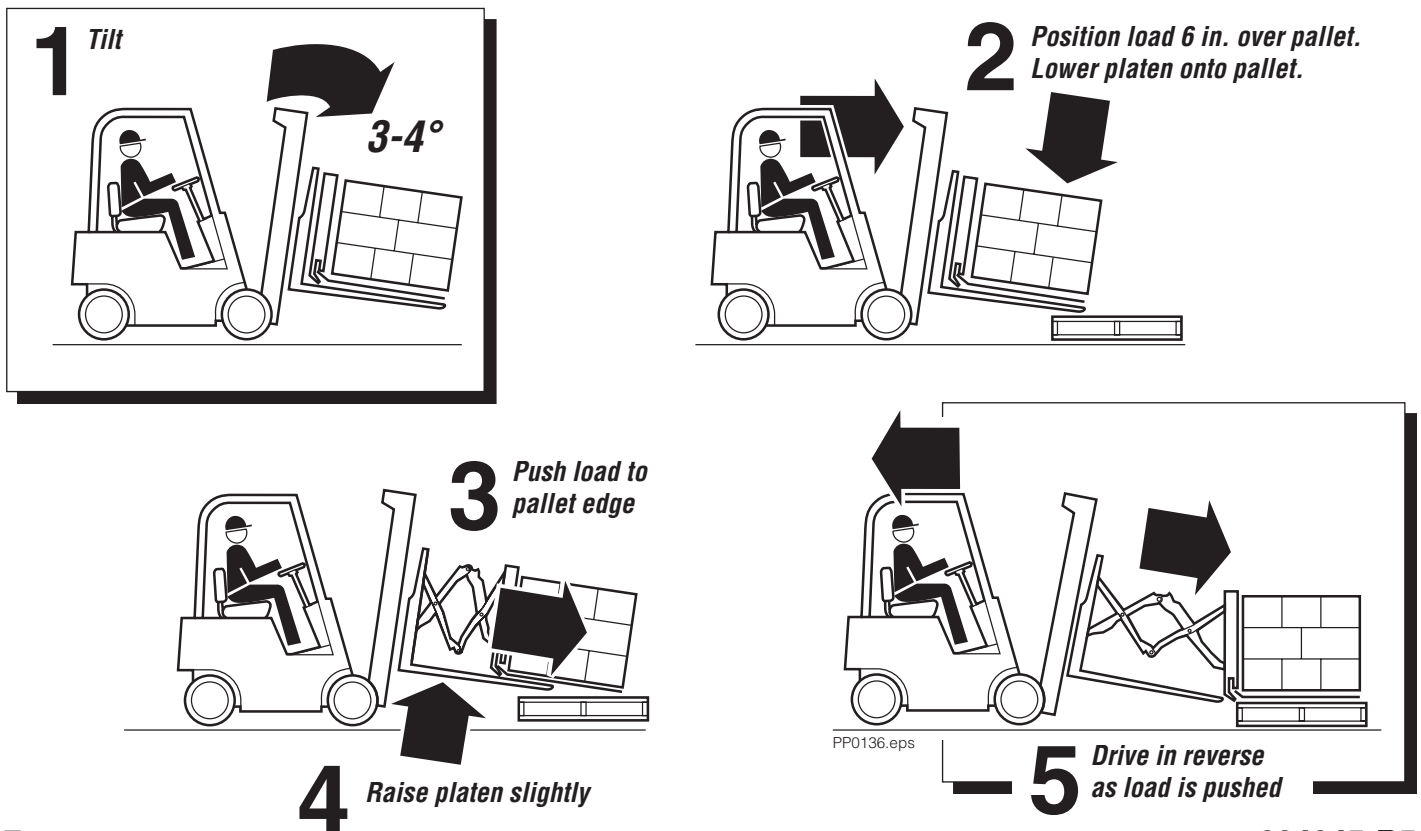
CAUTION: Trailer wheels must be locked

UNLOADING ON STACKS



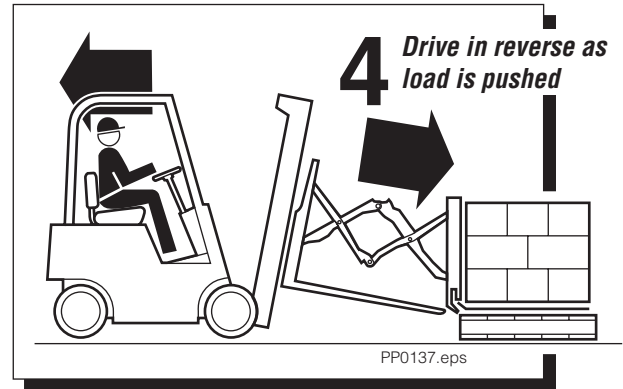
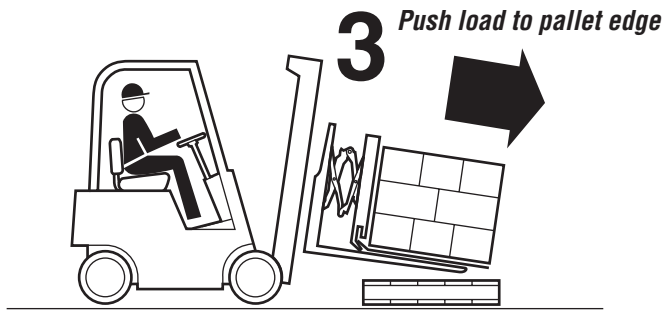
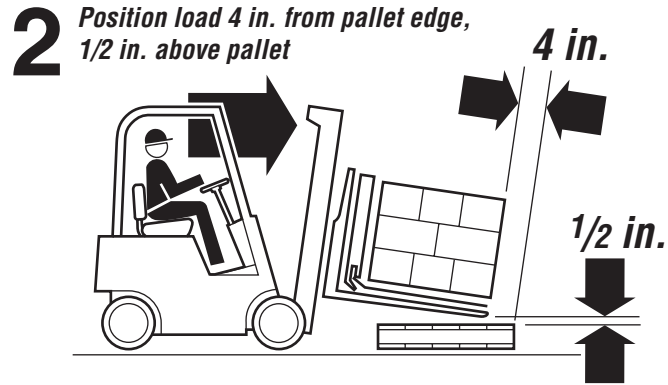
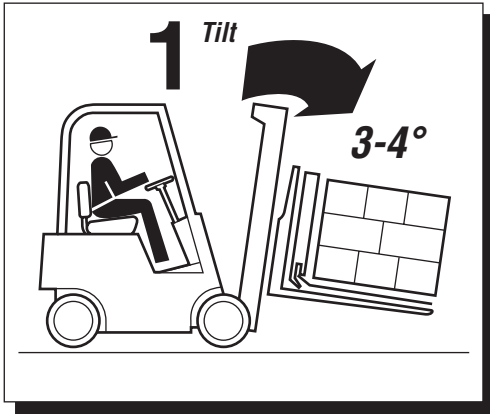
UNLOADING ON PALLETS

Pallet Boards in line with Push Direction



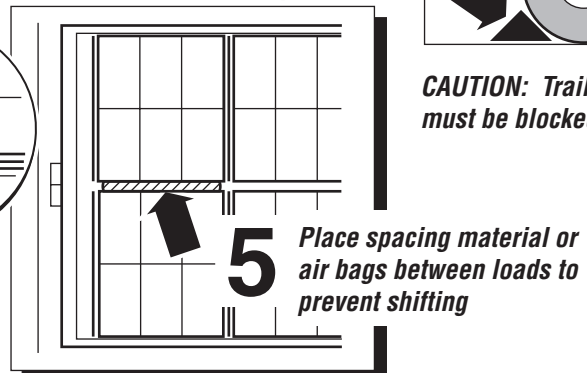
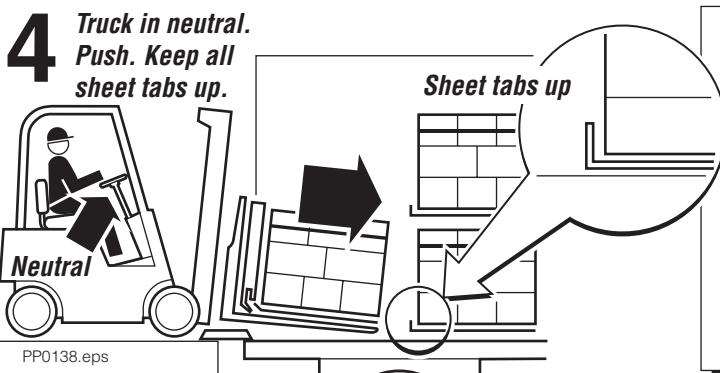
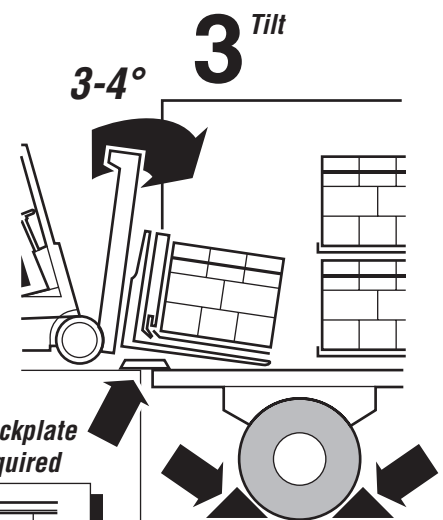
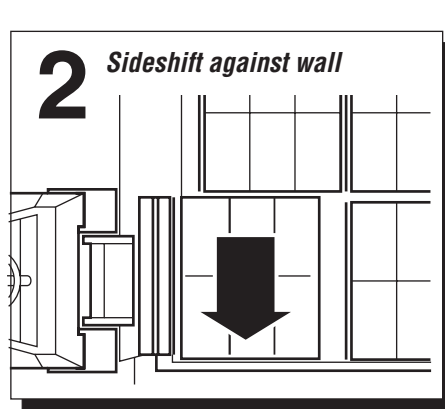
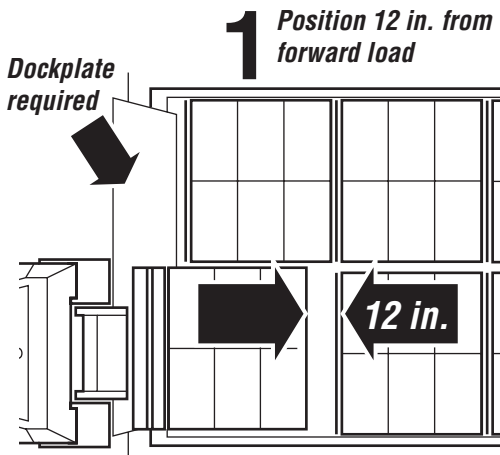
UNLOADING ON PALLETS

Pallet Boards Opposite Push Direction



UNLOADING INTO TRUCK TRAILERS

CAUTION: Level trailer with dock. Watch for nails or screws on trailer floor and walls.

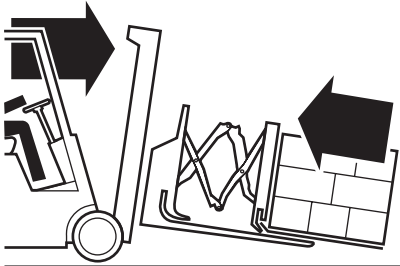


CAUTION: Trailer wheels must be blocked

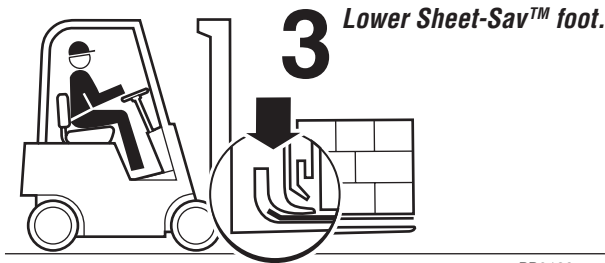
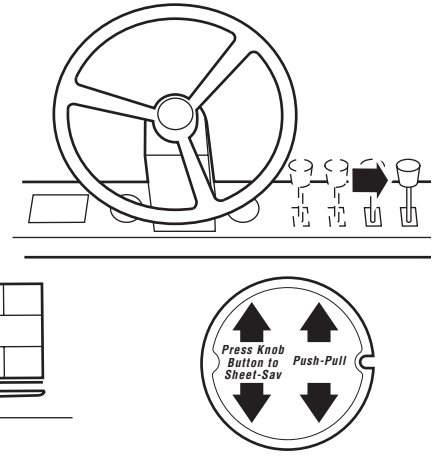
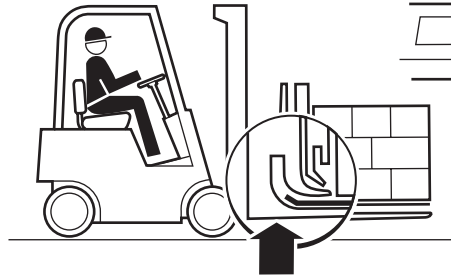
PP0138.eps

SHEET-SAV[®] OPERATION

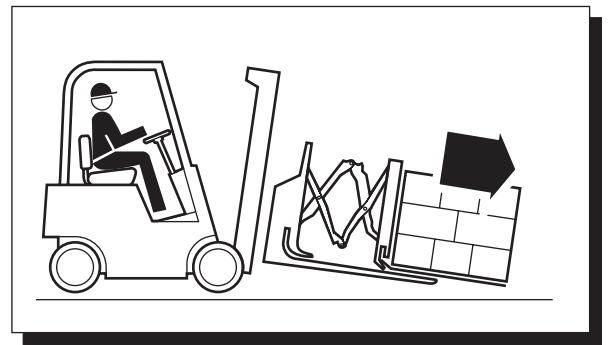
1 Pull load
OPTIONAL: Pull and drive forward



2 Raise Sheet-SavT foot.
 Sheet tab positions
 under foot

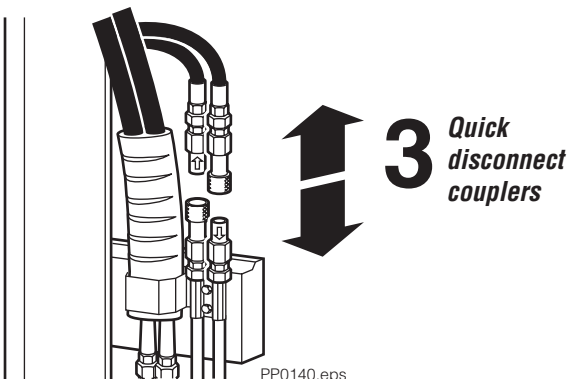
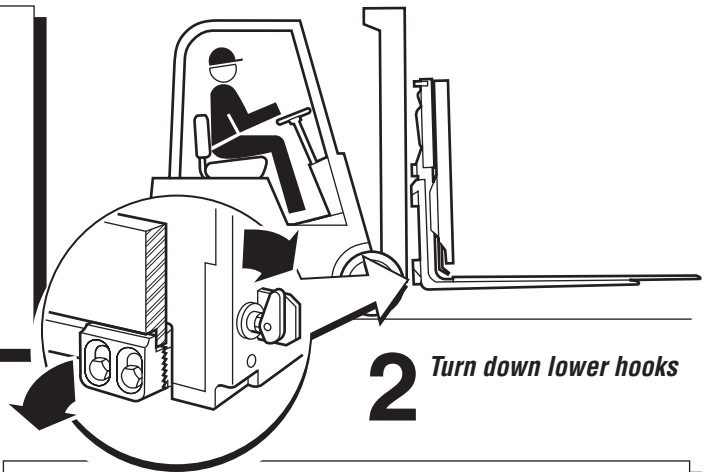
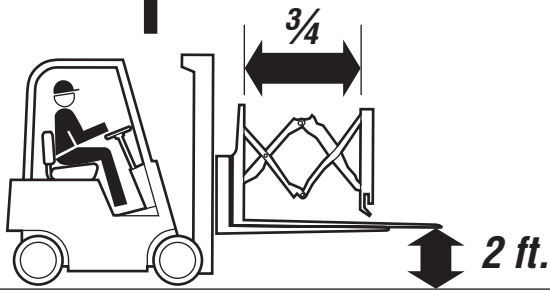


PP0139.eps

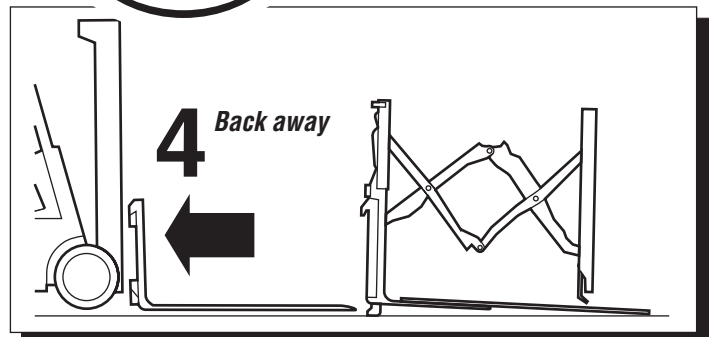


A TTACHMENT REMOVAL QFM[™] (Quick Fork Mount) Attachments

1 Extend faceplate and raise

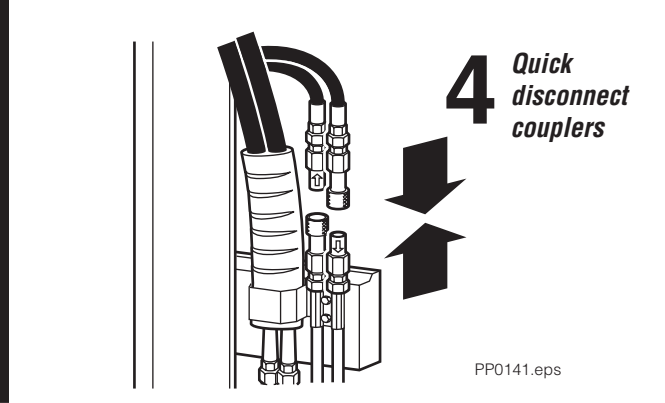
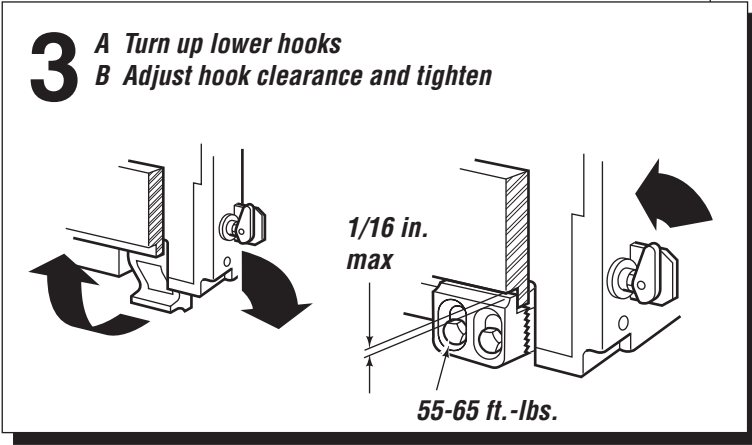
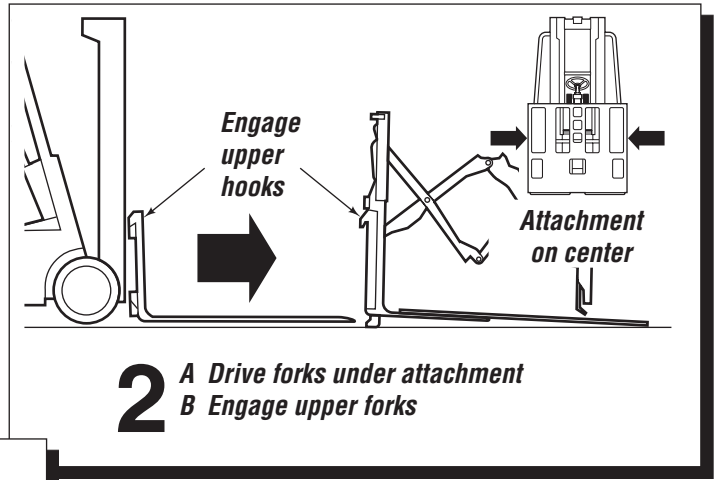
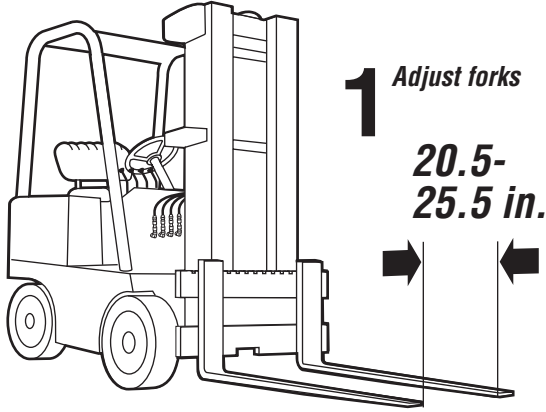


PP0140.eps



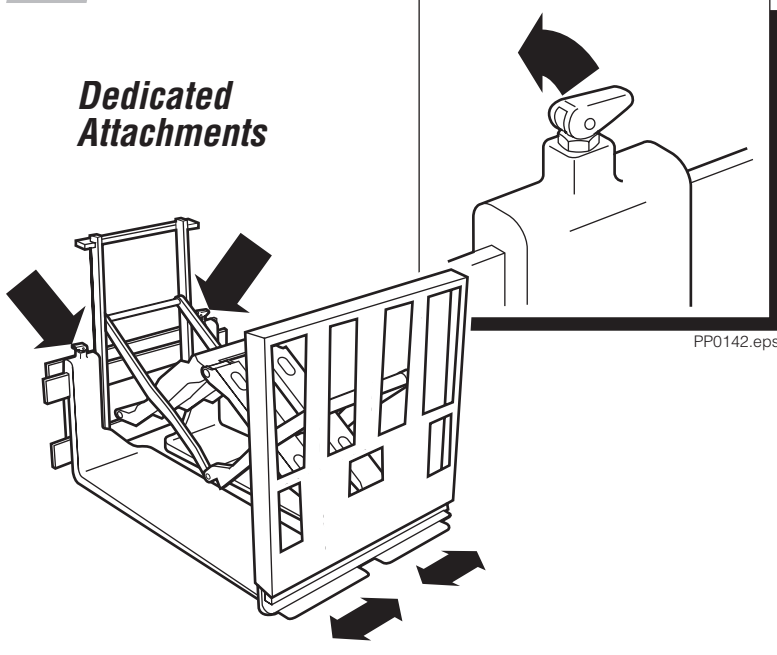
A TTACHMENT INSTALLATION

QFM™ (Quick Fork Mount) Attachments

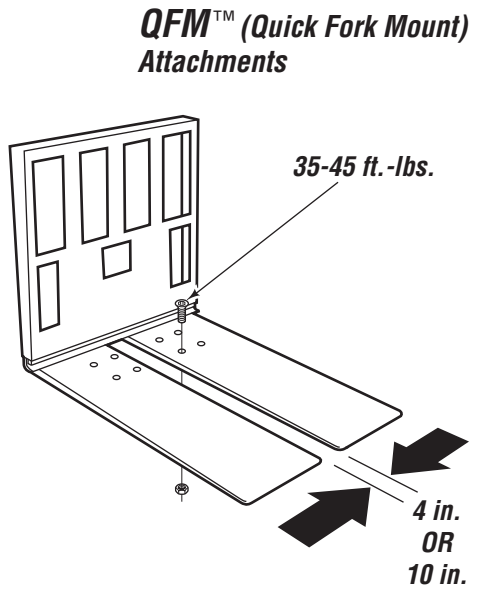


PP0141.eps

P LATEN ADJUSTMENT

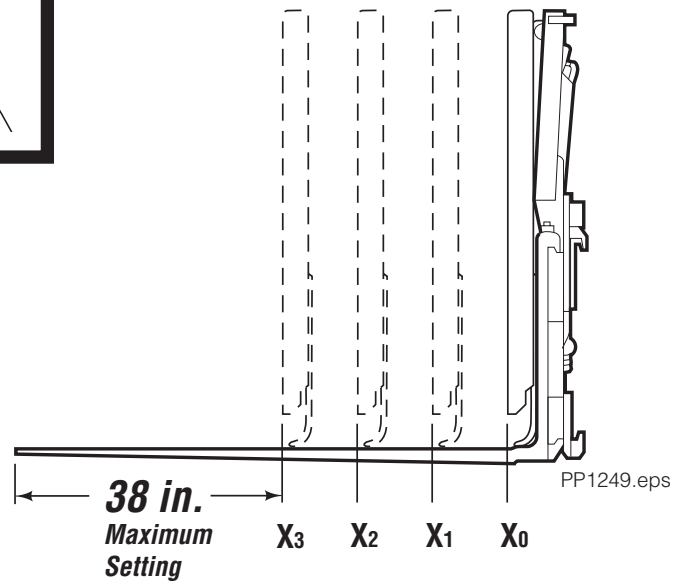
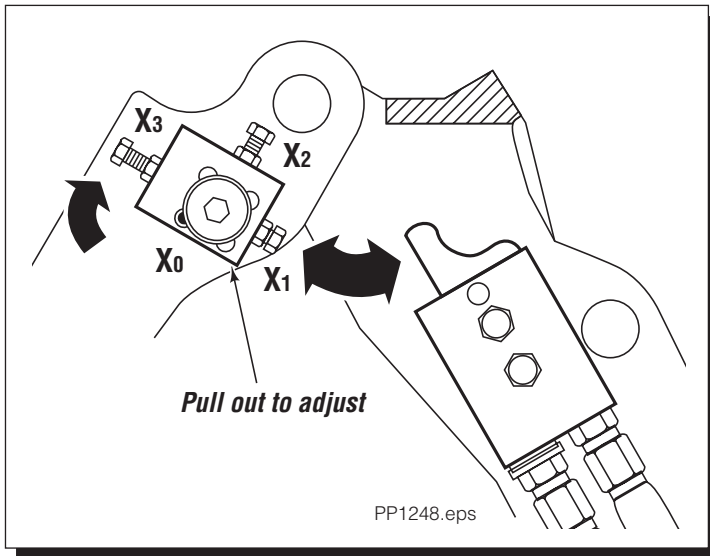


PP0142.eps



FACEPLATE STOP ADJUSTMENT

Attachments equipped with faceplate stop option



SAFE OPERATION AND MAINTENANCE

OSHA Regulations – Industrial Trucks and Attachments (Specific Regulations from OSHA 1910.178)



WARNING: The safe operation and maintenance of industrial trucks is regulated by Occupational Safety and Health (OSHA) regulations 1910.178 and American National Standards Institute (ANSI) Safety Standard for Powered Industrial Trucks, ANSI B56.1. When operating and maintaining industrial trucks equipped with attachments you should pay particular attention to the following sections of these regulations. You should be familiar with **all** sections of these regulations. **Ask your employer for the complete regulations.**

(a) General Requirement

- (4) Modifications and additions which affect capacity and safe operation shall not be performed by the customer or user without manufacturer's prior written approval. Capacity, operation and maintenance instruction plates, tags or decals shall be changed accordingly.
- (5) 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.
- (6) The user shall see that all nameplates and markings are in place and maintained in a legible condition.

(e) Safety Guards

- (2) If the type of load presents a hazard, the user shall equip fork trucks with a vertical load backrest extension in accordance with (a)(2) following.
(a)(2) 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, ANSI B56.1", except for vehicles intended primarily for earth moving or over-the-road hauling.

(l) 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.

(m) Truck Operations

- (1) Trucks shall not be driven up to anyone standing in front of a bench or other fixed object.
- (2) No person shall be allowed to stand or pass under the elevated portion of any truck, whether loaded or empty.
- (3) 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.
- (4) The employer shall prohibit arms or legs from being placed between the uprights of the mast or outside the running lines of the truck.
- (5i) 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.
- (5ii) A powered industrial truck is unattended when the operator is 25 feet 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.
- (5iii) When the operator of an industrial truck is dismantled and within 25 feet of the truck still in his view, the load engaging means shall be fully lowered, controls neutralized and the brakes set to prevent movement.

- (6) 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.
- (10) A load backrest extension shall be used whenever necessary to minimize the possibility of the load or part of it from falling rearward.

(n) Traveling

- (4) 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.
- (7i) When ascending or descending grades in excess of 10 percent, loaded trucks shall be driven with the load upgrade.
- (7iii) 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.

(o) Loading

- (1) Only stable or safely arranged loads shall be handled. Caution shall be exercised when handling off-center loads which cannot be centered.
- (2) Only loads within the rated capacity of the truck shall be handled.
- (3) The long or high (including multiple-tiered) loads which may affect capacity shall be adjusted.
- (4) Trucks equipped with attachments shall be operated as partially loaded trucks when not handling a load.
- (5) 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.
- (6) 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.

(p) Operation of the Truck

- (1) 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.

(q) Maintenance of Industrial Trucks

- (1) Any power-operated industrial truck not in safe operating condition shall be removed from service. All repairs shall be made by authorized personnel.
- (5) 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.
- (6) 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.
- (7) 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.

BLANK

Do you have questions you need answered right now? Call your nearest Cascade Parts Department.

Visit us online at www.cascorp.com

AMERICAS

Cascade Corporation U.S. Headquarters

2201 NE 201st
Fairview, OR 97024-9718
Tel: 800-CASCADE (227-2233)
Fax: 888-329-8207

Cascade Canada Inc.

5570 Timberlea Blvd.
Mississauga, Ontario
Canada L4W-4M6
Tel: 905-629-7777
Fax: 905-629-7785

Cascade do Brasil

Rua João Guerra, 134
Macuco, Santos - SP
Brasil 11015-130
Tel: 55-13-2105-8800
Fax: 55-13-2105-8899

EUROPE-AFRICA

Cascade Italia S.R.L. European Headquarters

Via Dell'Artigianato 1
37030 Vago di Lavagno (VR)
Italy
Tel: 39-045-8989111
Fax: 39-045-8989160

Cascade (Africa) Pty. Ltd.

PO Box 625, Isando 1600
60A Steel Road
Sparton, Kempton Park
South Africa
Tel: 27-11-975-9240
Fax: 27-11-394-1147

ASIA-PACIFIC

Cascade Japan Ltd.

2-23, 2-Chome,
Kukuchi Nishimachi
Amagasaki, Hyogo
Japan, 661-0978
Tel: 81-6-6420-9771
Fax: 81-6-6420-9777

Cascade Korea

121B 9L Namdong Ind.
Complex, 691-8 Gojan-Dong
Namdong-Ku
Inchon, Korea
Tel: +82-32-821-2051
Fax: +82-32-821-2055

Cascade-Xiamen

No. 668 Yangguang Rd.
Xinyang Industrial Zone
Haicang, Xiamen City
Fujian Province
P.R. China 361026
Tel: 86-592-651-2500
Fax: 86-592-651-2571

Cascade India Material Handling Private Limited

No 34, Global Trade Centre
1/1 Rambaugh Colony
Lal Bahadur Shastri Road,
Navi Peth, Pune 411 030
(Maharashtra) India
Phone: +91 020 2432 5490
Fax: +91 020 2433 0881

Cascade Australia Pty. Ltd.

1445 Ipswich Road
Rocklea, QLD 4107
Australia
Tel: 1-800-227-223
Fax: +61 7 3373-7333

Cascade New Zealand

15 Ra Ora Drive
East Tamaki, Auckland
New Zealand
Tel: +64-9-273-9136
Fax: +64-9-273-9137

Sunstream Industries Pte. Ltd.

18 Tuas South Street 5
Singapore 637796
Tel: +65-6795-7555
Fax: +65-6863-1368