

USER MANUAL

R-Series

Fork Positioner

Original Instructions

Number 6529755 EN



**cascade[®]
corporation**

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I NTRODUCTION

This user manual is for the Cascade R-Series Fork Positioner. Contents include an Operation Guide, Installation Instructions and Periodic Maintenance.

IMPORTANT: The R-Series Fork Positioner is metric. Supply fittings adapted as required for application.

NOTE: All specifications are shown in metric units where applicable. All fasteners have a torque value range of $\pm 10\%$ of stated value.

Weighted Emission Sound Pressure Level - Weighted emission sound pressure level (L_{pA}) 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 .

Special Definitions

The statements shown appear throughout this manual where special emphasis is required. Read all **WARNINGS** and **CAUTIONS** before proceeding with any work.

Statements labeled **IMPORTANT** and **NOTE** are provided as additional information of special significance or to make the job easier.



WARNING – A statement preceded by **WARNING** is information that should be acted upon to prevent **bodily injury**. A **WARNING** is always inside a ruled box.



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 – A statement preceded by **CAUTION** is information that should be acted upon to prevent machine damage.

IMPORTANT – A statement preceded by **IMPORTANT** is information that possesses special significance.

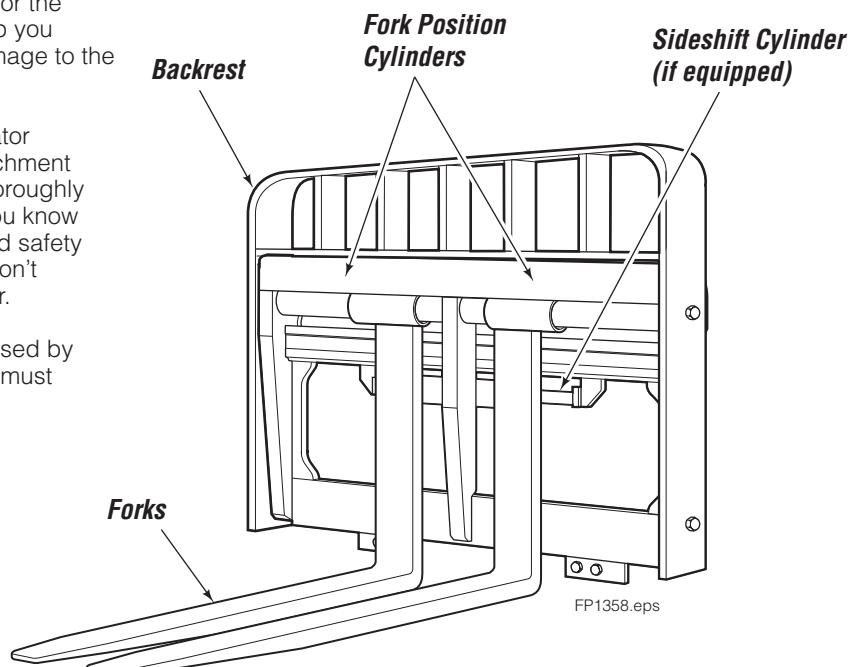
NOTE – A statement preceded by **NOTE** is information that is handy to know and may make the job easier.

O PERATION

This section contains operating instructions for the Cascade R-Series Fork Positioner. It will help you avoid common errors which often cause damage to the equipment or product being handled.

This information is intended to simplify operator understanding about effective and safe attachment use and operation. Read this information 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.



OPERATION

Industrial Trucks

No riders



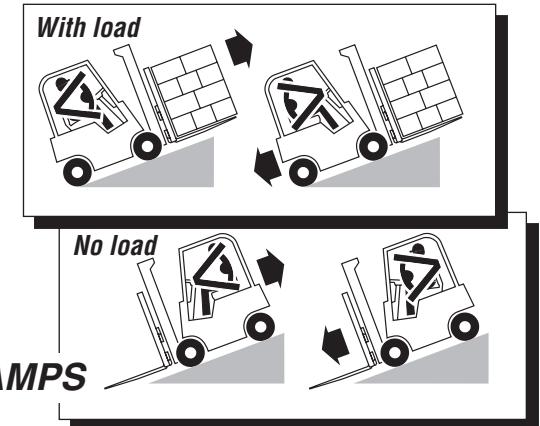
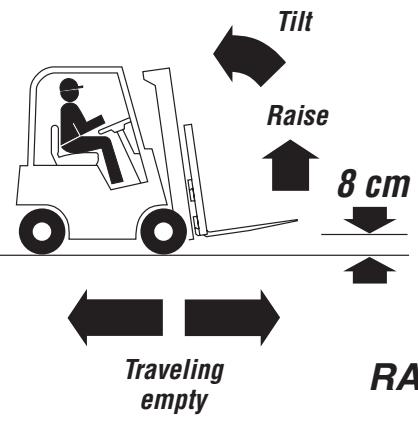
No reaching through mast



No standing under load



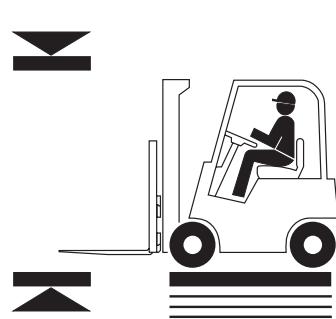
GA0047.eps



No parking on ramp



No turning on ramp



Watch clearances

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TRAFFIC



**Slow for
two-way traffic**



**Sound horn, slow
at intersection**



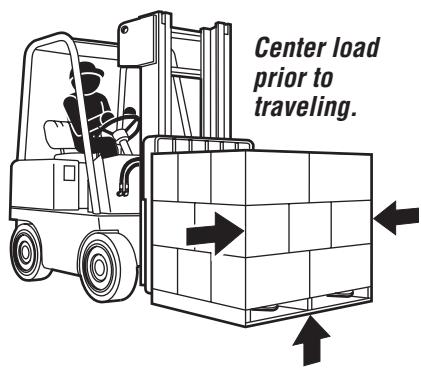
**Sound horn, slow
at corner**

OPERATION

Handling Loads



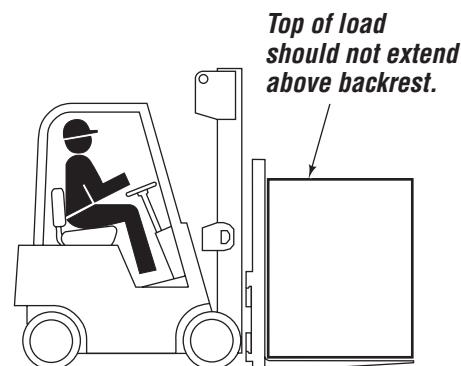
CAUTION: Do not put side loads on forks.



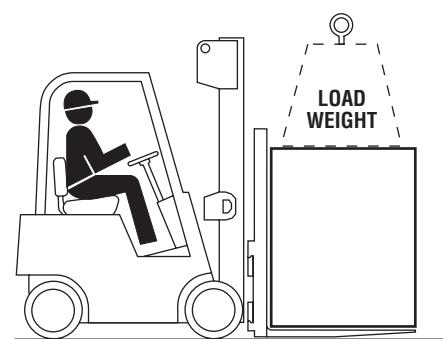
Raise load prior to sideshifting.



Limit sideshifting with raised load.



Top of load should not extend above backrest.



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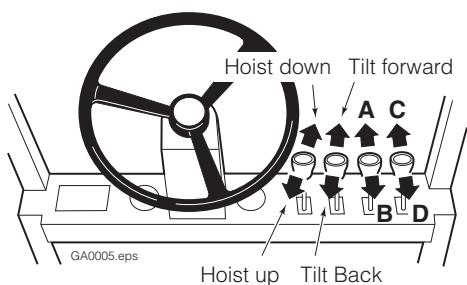
Limit truck movement with raised load.

Load weight must not exceed combined truck/attachment capacity (see truck nameplate).

Total fork capacity (LH + RH fork) must be greater than load weight. Check capacity stamp on forks.

Fork Positioner/Sideshifter Operation

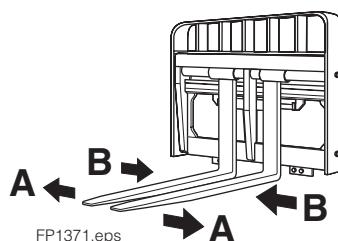
AUXILIARY VALVE FUNCTIONS



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FORK POSITIONING

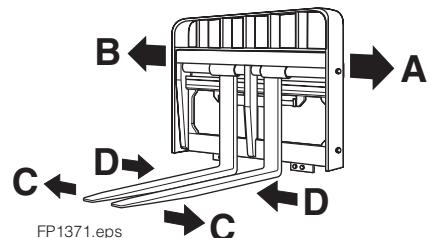
- A** Open Forks
- B** Close Forks



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SIDESHIFTING / FORK POSITIONING

- A** Sideshift Left
- B** Sideshift Right
- C** Open Forks
- D** Close Forks



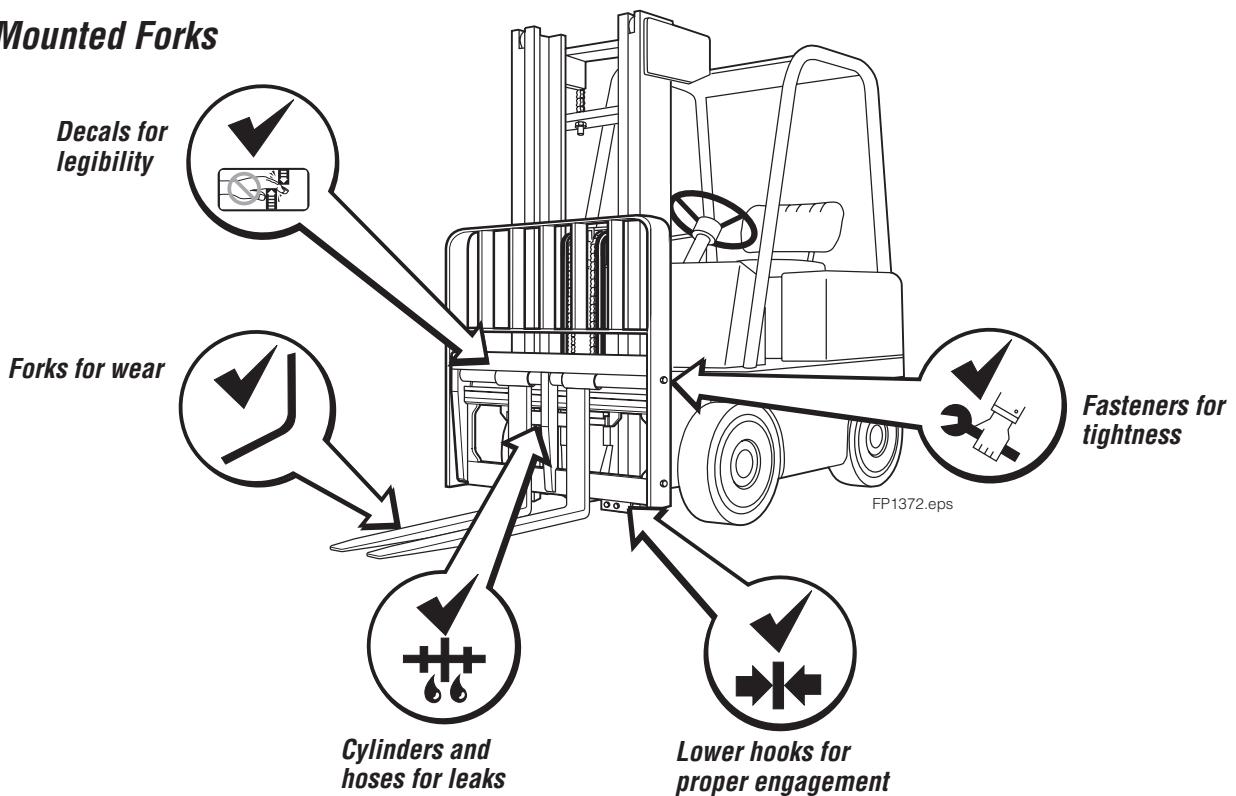
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OPERATION

Daily Inspection

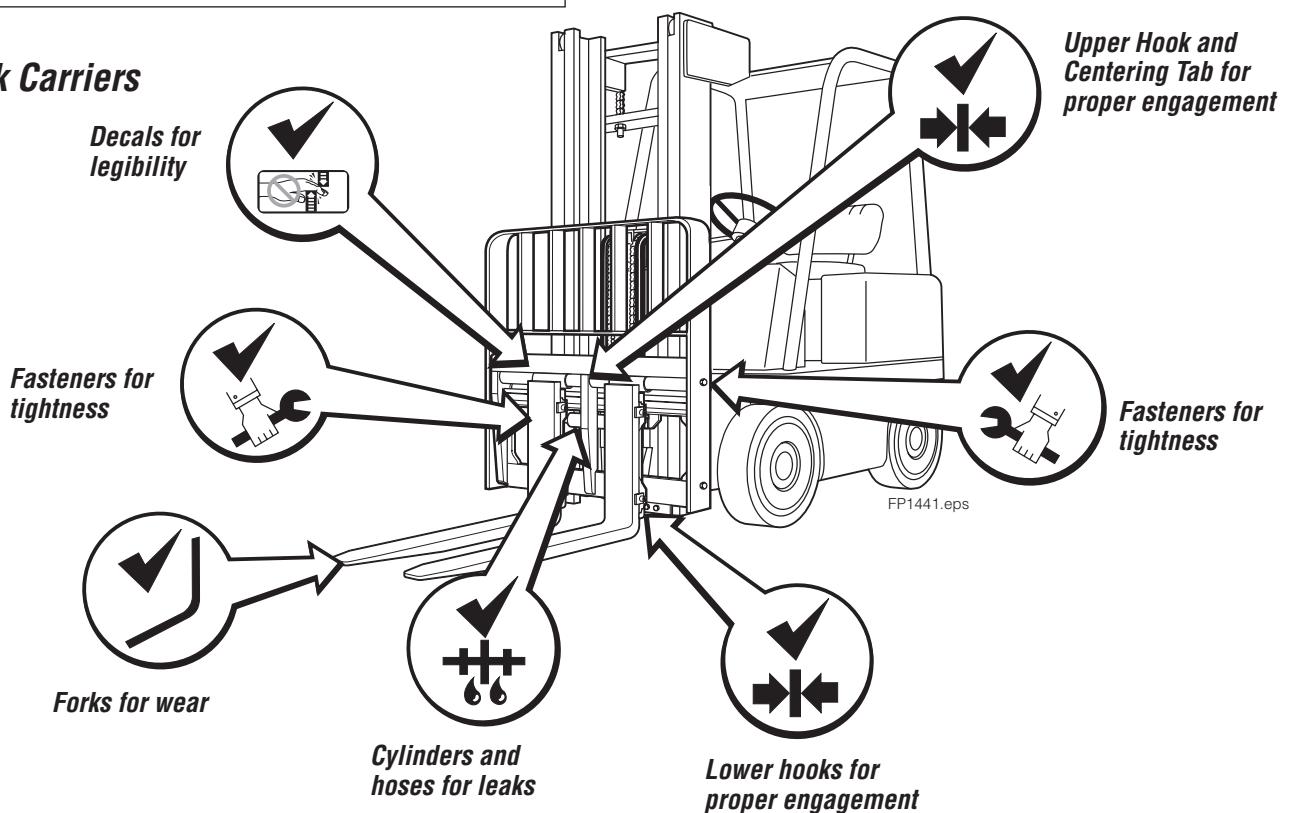
Check items shown each day. Report problems to your supervisor. See service manual for troubleshooting and repair procedures.

Pin Mounted Forks



WARNING: If equipped with fork carriers, the fork locking pin must be removed. Side locking plates must be fixed correctly to prevent the fork from becoming disengaged from the fork carrier.

Fork Carriers





SAFE OPERATION AND MAINTENANCE

Industrial Trucks and Attachments



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 to match load height.

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 7.62 m 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 7.62 m 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.

INSTALLATION

Truck Requirements



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

Truck Relief Setting

60R, 70R	Recommended	Max.
Fork Position	90 bar	120 bar
Sideshift	130 bar	180 bar
80R		
Fork Position	100 bar	120 bar
Sideshift	150 bar	180 bar

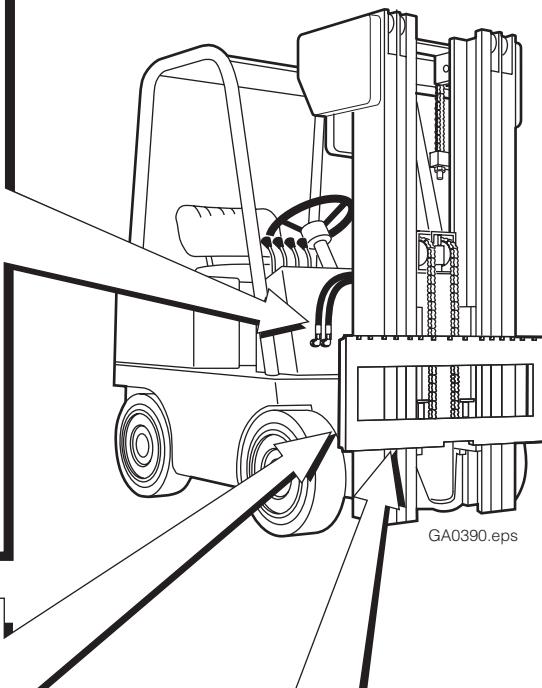
Truck Flow Volume ^①

R-Series	Recommended ^②	Max. ^③
60R, 70R	45 L/min.	60 L/min.
80R	55 L/min.	75 L/min.

^① Cascade R-Series Fork Positioners are compatible with SAE 10W petroleum base hydraulic fluid meeting Mil. Spec. MIL-0-5606 or MIL-0-2104B. Use of synthetic or aqueous base hydraulic fluid is not recommended. If fire resistant hydraulic fluid is required, special seals must be used. Contact Cascade.

^② Flow less than recommended will result in slow and unequal fork movement.

^③ Flow greater than maximum can result in excessive heating, reduced system performance and short hydraulic system life.



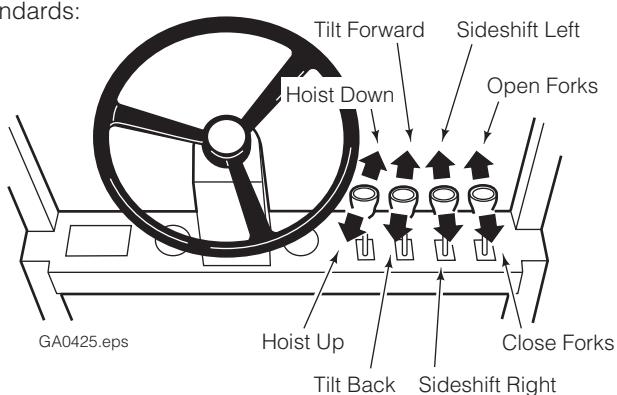
Carriage Mount Dimension (A) ISO

	Minimum	Maximum
Class IV	595.5 mm	597.0 mm
Class V	663.0 mm	678.0 mm

Carriage – Clean and inspect carriage bars. Bars must be parallel and ends flush. Grind smooth any protruding welds that may affect roller bearings. Repair any damaged notches.

Auxiliary Valve Functions

Check for compliance with ISO standards:



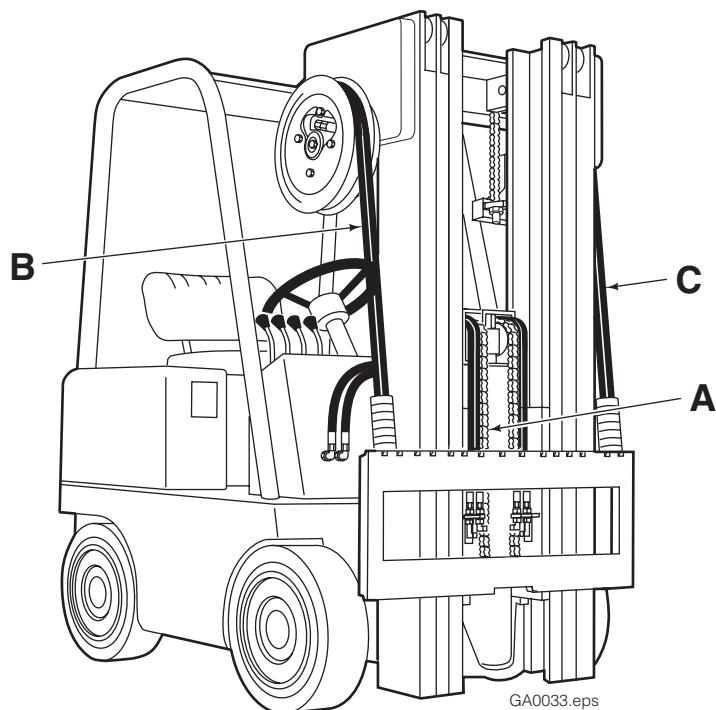
INSTALLATION

Recommended Hydraulic Supply

Fork Position Function: No. 6 hoses and fittings with 7 mm minimum I.D.

Sideshift Function: No. 6 hoses and fittings with 7 mm minimum I.D.

Refer to *Cascade Hose & Cable Reel Selection Guide*, Part No. 212199, to select the correct hose reel for the mast and truck.



Fork Position

A Mast Single Internal Reeving

OR

B RH THINLINE™ 2-Port Hose Reel Group

Fork Position & Sideshift

A Mast Double Internal Reeving

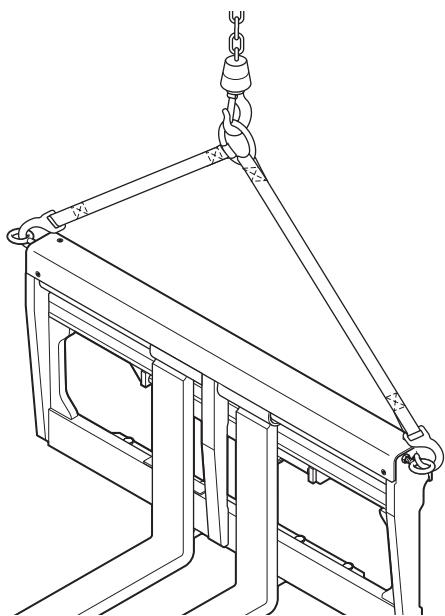
OR

B & C RH and LH THINLINE™ 2-Port Hose Reel Groups

INSTALLATION

Attachment Installation

1 Attach overhead hoist



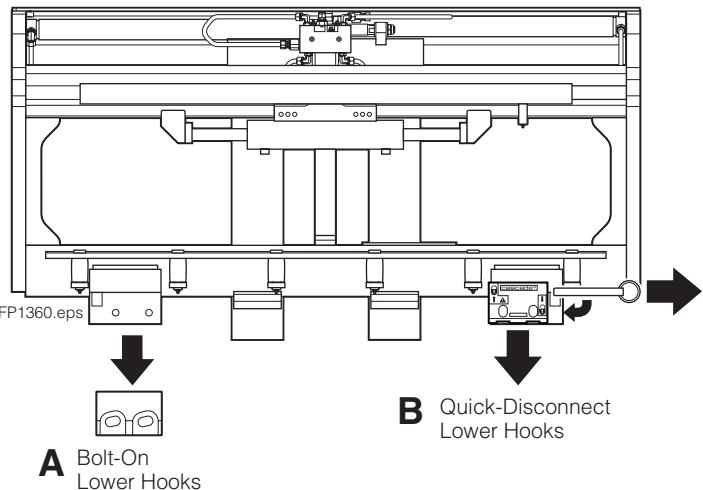
WARNING: Check the attachment weight (located on the nameplate) to make sure the overhead hoist and chains or straps are at least the rated capacity of the attachment.

2 Remove lower hooks

A Remove bolt-on lower hooks.

OR

B Pull pin to lower quick-disconnect hooks. Install pin in lower hole.

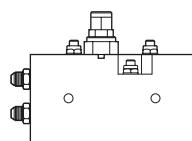


3 Prepare hoses

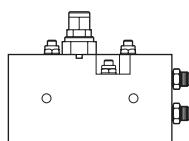
A Determine hose length required for hydraulic supply configuration of truck.

B Cut hoses to length, install end fittings or quick-disconnect kits.

VALVE

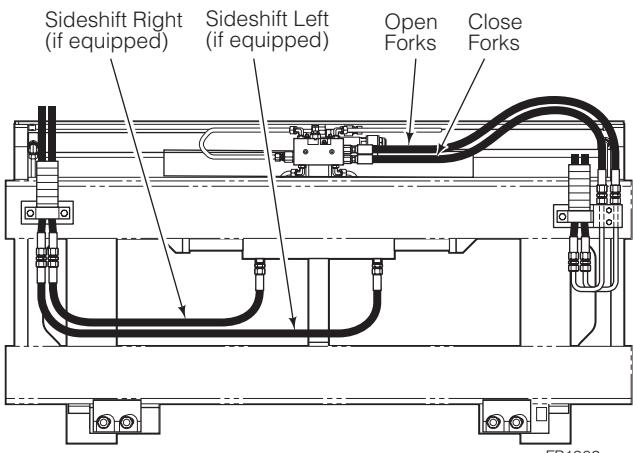


LH Supply



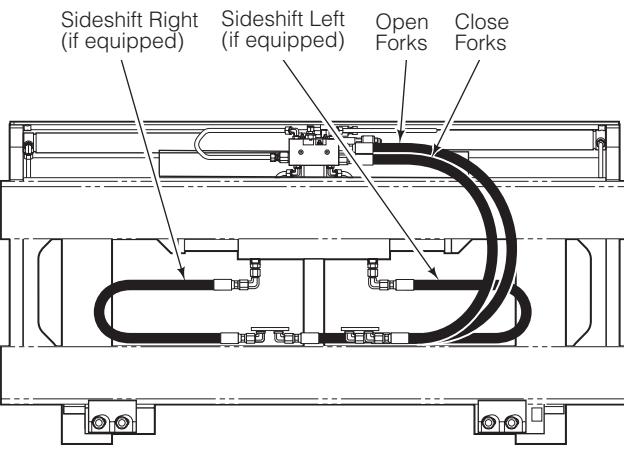
RH Supply

RH & LH 2-PORT THINLINE™ HOSE REELS



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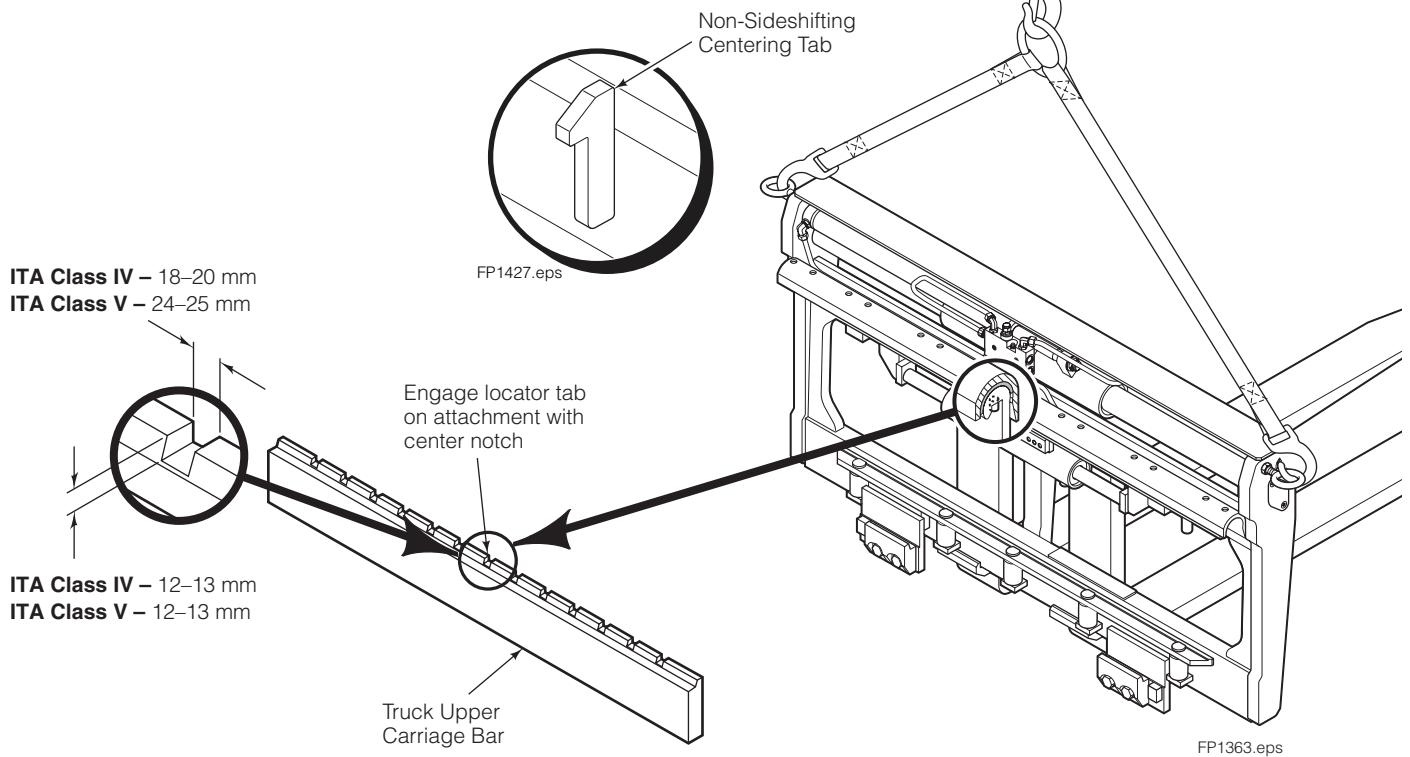
RH & LH INTERNAL HOSE REEVING



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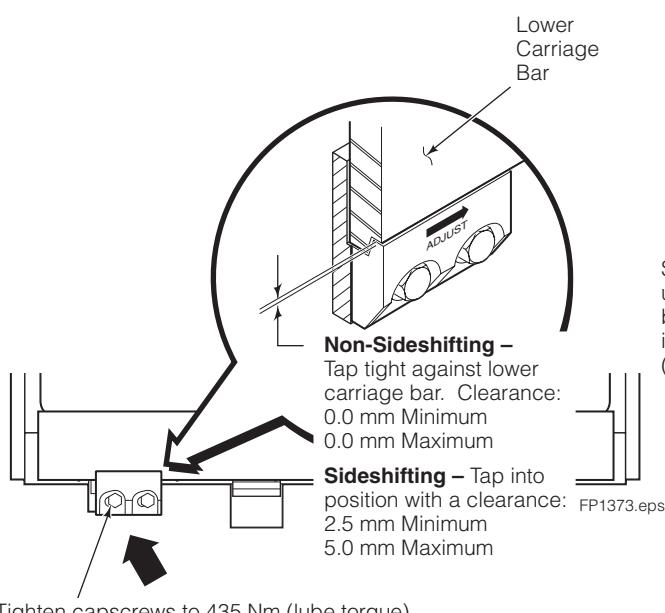
Back (Driver's) View

4 Mount on truck carriage

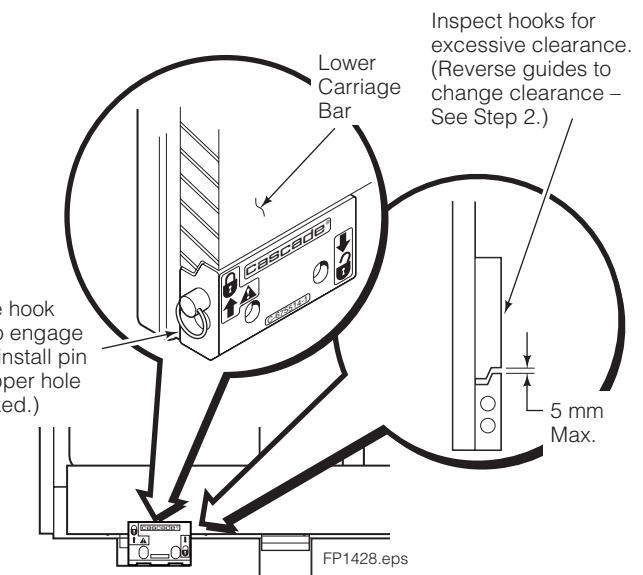


5 Install bolt-on lower hooks

BOLT-ON HOOKS



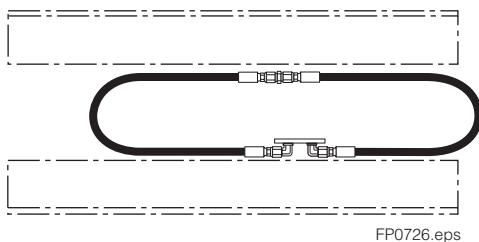
QUICK-CHANGE HOOKS



INSTALLATION

6 Flush Supply Hoses

- A** Connect supply hoses to truck supply terminals and connect together using a union fitting, as shown.
- B** Operate auxiliary valve for 30 seconds.
- C** Remove union fitting.



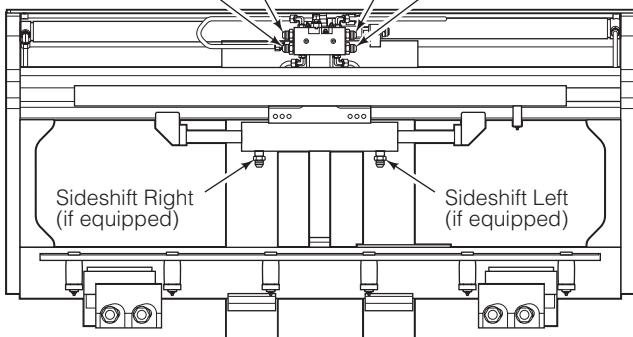
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7 Install hoses

LH Supply RH Supply

OR

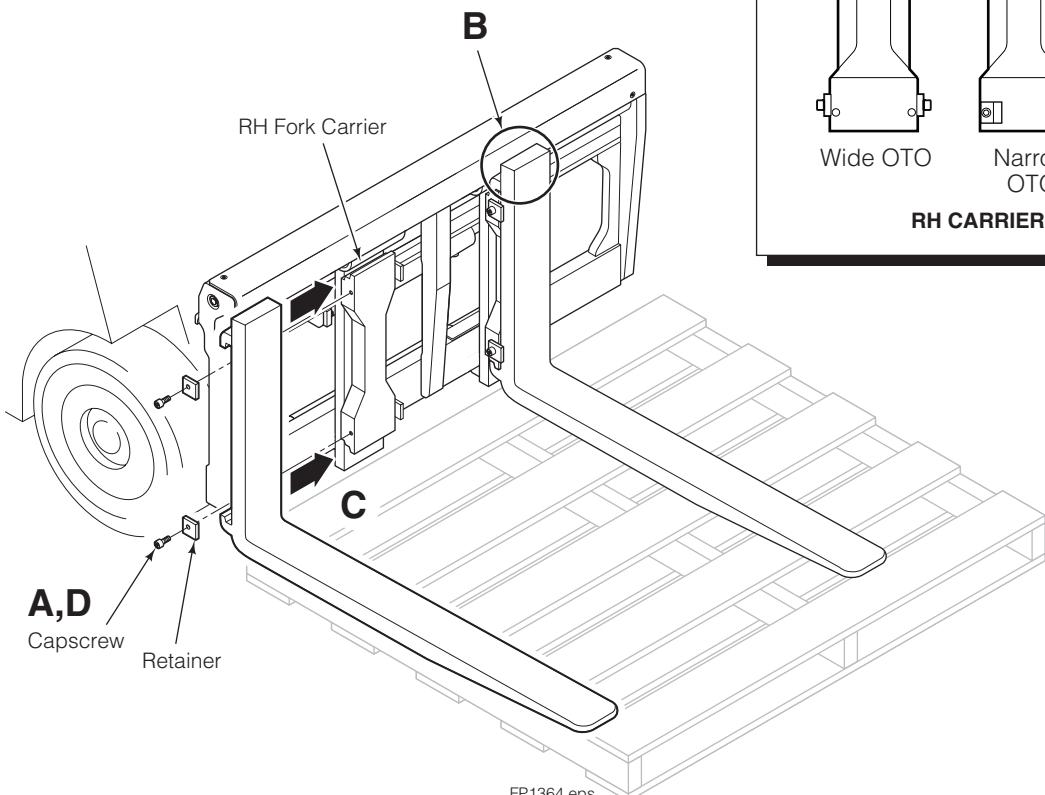
Open Forks Open Forks
Close Forks Close Forks



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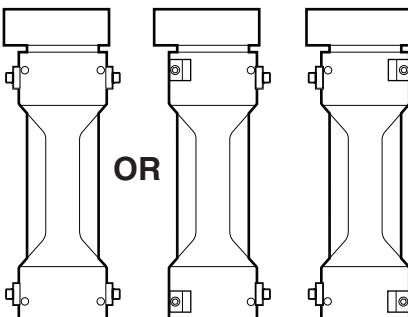
8 Install forks (attachments with fork carriers)

- A** Remove capscrews and fork carrier outer retainers.
- B** Remove locking pin from upper hook, if equipped.
- C** Install forks using a pallet or blocks. Keep feet clear of forks.
- D** Reinstall fork carrier retainers and tighten capscrews to 165 Nm (lube torque).



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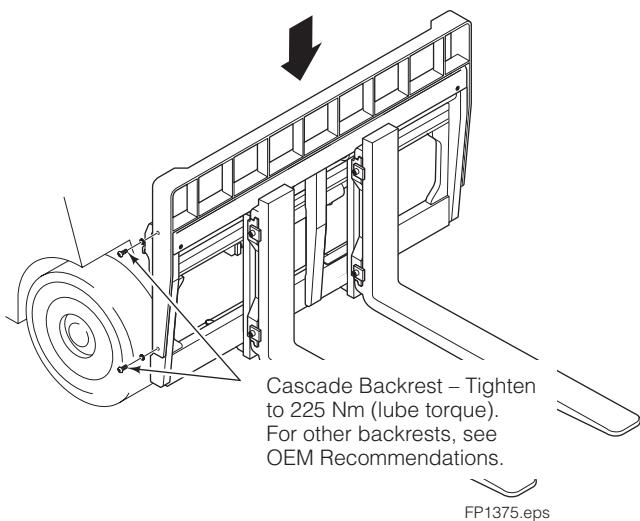
150 mm Wide Forks 200 mm Wide Forks



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9

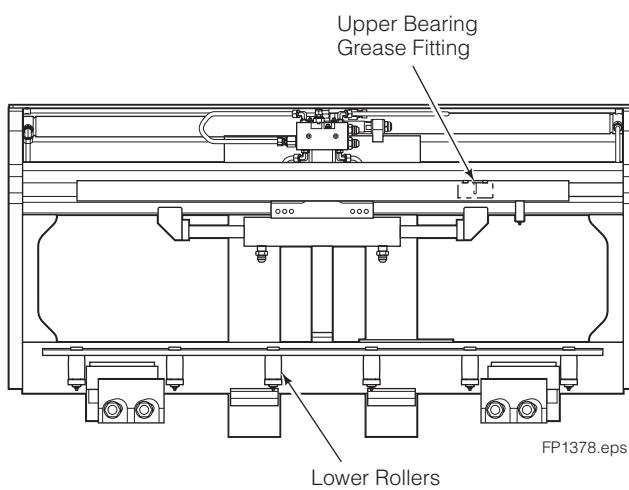
Install backrest



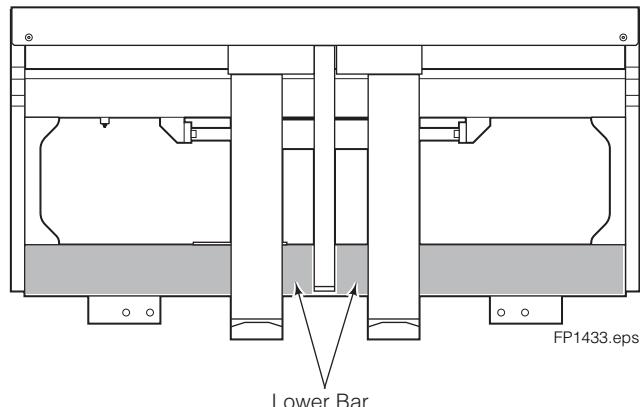
10

Lubrication

Apply general chassis grease to upper bearing grease fittings, lower rollers and lower bar.



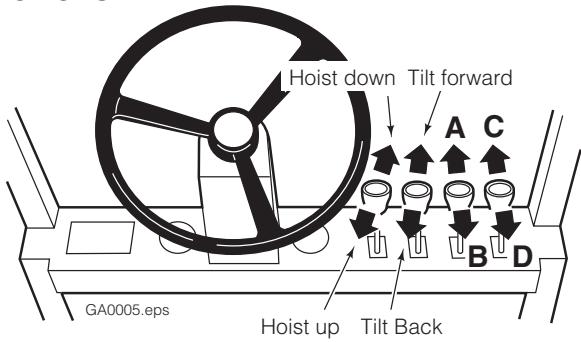
Back (Driver's) View



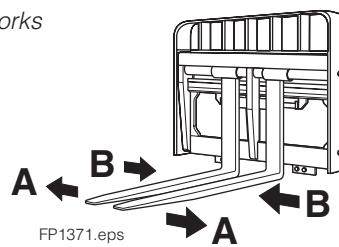
Front View

11**Cycle Fork Positioners functions**

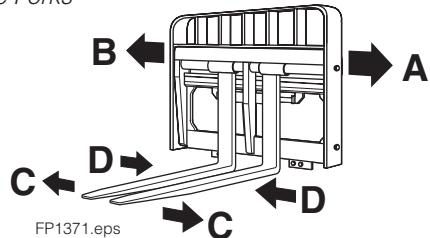
- Open and close forks several times. Sideshift (if equipped) left and right. Check for smoothness and equal movement.
- Check for operation in accordance with ISO standards.
- Check for leaks at fittings, valve, cylinders.

AUXILIARY VALVE FUNCTIONS**FORK POSITIONING**

- A** Open Forks
B Close Forks

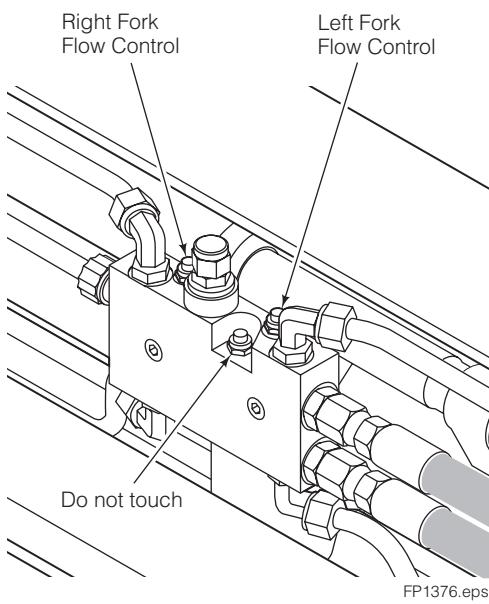
**SIDESHIFTING / FORK POSITIONING**

- A** Sideshift Left
B Sideshift Right
C Open Forks
D Close Forks

**12****Adjust valve flow controls for equal fork movement (if required)**

NOTE: The attachment is adjust at the factory got equal fork movement when operated at recommended pressure and flow rate.

- Loosen jam nuts and screw both flow restrictors in until they bottom. Screw each restrictors out (CCW) two turns. Tighten jam nuts.
- Fully open forks, then fully close forks. Look for unequal fork movement and note which cylinder is faster.
- On faster fork (one that bottoms out first), loosen jam nut and screw flow restrictor in (CW) 1/2 turn.
- Repeat Step B & C until fork movement is equal. Tighten jam nut.



PERIODIC MAINTENANCE

100-Hour Maintenance

Every time the lift truck is serviced or every 100 hours of truck operation, whichever comes first, complete the following maintenance procedures:

- Check for loose or missing capscrews, worn or damaged hoses, and hydraulic leaks.
- Inspect lower hooks for wear and proper clearance. Adjust if necessary. Refer to Installation Step 5.
- If required, tighten fork carrier capscrews to 50 Nm.



WARNING: After completing any service procedure, always test the attachment through five complete cycles to make sure the attachment operates correctly before return it to the job.

300-Hour Maintenance

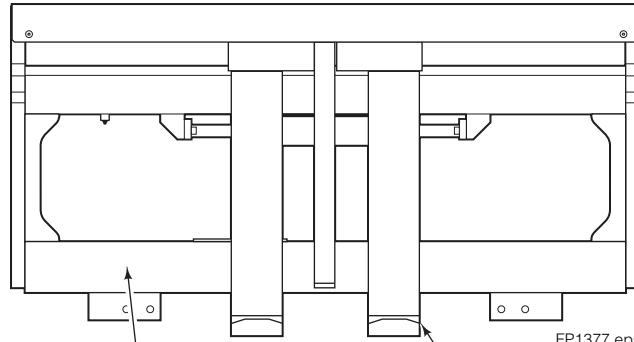
After each 300 hours of truck operation, in addition to the 100-hour maintenance, perform the following maintenance procedures:

- Tighten backrest capscrews (Cascade) to 225 Nm (lube torque).
- Apply general purpose chassis grease to upper hook bearing grease fittings and lower fork bar.
- Check the clearance between the lower mounting hooks and the truck carriage bar:

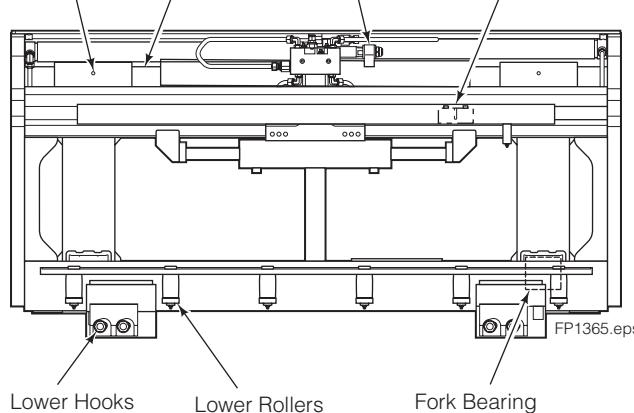
Non-Sideshifting – Tight against carriage bar.

Sideshifting – 2.5–5.0 mm gap

If adjustment is necessary, refer to Installation Step 5. Tighten lower hook capscrews to 435 Nm (lube torque).



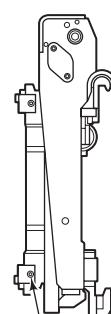
Fork Carrier or Fork Bearing Grease Fitting Fork/Fork Carrier Shaft Rod Anchors Upper Hook Bearing and Grease Fitting



1000-Hour Maintenance

After each 1000 hours of truck operation, in addition to the 100 and 300-hour maintenance, perform the following maintenance procedures:

- Inspect fork carriers or forks for looseness on shaft. Lubricate with general purpose chassis grease.
- Inspect fork carrier or fork lower bearings for wear. If any bearing is worn to less than 7 mm thickness, replace the entire bearing set. Refer to service manual for repair procedures.
- Replace sideshift upper bearing and rollers if not operating smoothly, even when greased.



Fork Carrier Capscrews

2000-Hour Maintenance

After 2000 hours of truck operation, in addition to the 100, 300 and 1000-hour maintenance, forks in use shall be inspected at intervals of not more than 12 months (for single shift operations) or whenever any defect or permanent deformation is detected. Severe applications will require more frequent inspection.

Fork inspection shall be carried out by trained personnel to detect any damage that might impair safe use. Any fork that is defective shall be removed from service. Reference ISO 5057:1993.

Inspect for the following defects:

- Surface cracks
- Straightness of blade and shank
- Fork angle
- Difference in height of fork tips
- Positioning lock
- Wear on fork blade and shank
- Wear on fork hooks
- Legibility of marking

EN NAMEPLATE ICONS
 BG ТАБЕЛКА С ИМЕ ИКОНИ
 CS JMENOVKA IKONY
 DA NAVNESKILT IKONER
 DE TYPENSCHILD SYMBOLE
 EL ΟΝΟΜΑΣΤΙΚΗΣ ΕΙΚΟΝΙΔΙΑ
 ES PLACA DE ICONOS
 ET NIMEPLAADILE IKONID
 FI NIMIKYLTI KUVAKKEET
 FR PLAQUE ICÔNES

GA IDENTIFICACIÓN ICONAS
 HU NEVΤÁBLÁN IKONOK
 IS NAFNASKILTATÁKN
 IT ICONE DELLA TARGA
 JA 銘板アイコン
 KO 명판 아이콘
 LT NOMINALUS PIKTogrammos
 LV AR NOSAUKUMU, IKONAS
 MT NAMEPLATE ICOANE
 NL NAAMBORD ICONEN

NO NAVNEPLATE-IKONER
 PL NAMEPLATE ICOANE
 PT IDENTIFICAÇÃO ÍCONES
 RO ICONOS DE PLACA
 RU ТАБЛИЧКУ ЗНАКОВ
 SK MENOVKA ICONS
 SL TABLICA IKONE
 SV NAMNSKYLTN IKONER
 TR BİLGİ ETİKETİ SIMGELERİ
 ZH 铭牌图标

	A2-Z	45E-PHS-462	2010
123	PTL1086133-2	3500 lb 1586 kg	2300 psi 159 bar
	6086329	9.1 in 220 mm	165 mm
		3500 lb 1586 kg	24 in 610 mm
		1115 lb 505 kg	

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6095754



EN MODEL
 BG МОДЕЛ
 CS MODEL
 DA MODEL
 DE MODELL
 EL ΜΟΝΤΕΛΟ

ES MODELO
 ET MUDEL
 FI MALLI
 FR MODÈLE
 GA DÉANAMH AGUS AINM
 HU MODELL

IS MÓDEL
 IT MODELLO
 JA モデル
 KO 모델
 LT MODELIS
 LV MODELIS

MT MUDELL
 NL MODEL
 NO MODELL
 PL MODEL
 PT MODELO
 RO MODEL

RU МОДЕЛЬ
 SK MODEL
 SL MODEL
 SV MODELL
 TR MODEL
 ZH 型号



EN SERIAL NUMBER
 BG СЕРИЕН НОМЕР
 CS SÉRIOVÉ ČÍSLO
 DA SERIENUMMER
 DE SERIENNUMMER
 EL ΣΕΙΡΙΑΚΟΣ ΑΡΙΘΜΟΣ

ES NÚMERO DE SERIE
 ET SEERIANUMBER
 FI SARJANUMERO
 FR NUMERO DE SERIE
 GA SRAITHUIMHIR
 HU GYÁRI SZÁM

IS RADNÚMER
 IT NUMERO DI SERIE
 JA シリアル番号
 KO 일련 번호
 LT SERIJINIS NUMERIS
 LV SÉRIJAS NUMURS

MT NUMRU TAS-SERJE
 NL SERIENUMMER
 NO SERIENUMMER
 PL NUMER SERYJNY
 PT NÚMERO DE SÉRIE
 RO NUMĂR DE SERIE

RU СЕРИЙНЫЙ НОМЕР
 SK SÉRIOVÉ ČÍSLO
 SL SERIJSKA ŠTEVILKA
 SV SERIENNUMMER
 TR SERI NUMARASI
 ZH 序列号



EN ADDITIONAL INFORMATION
 BG ДОПЪЛНИТЕЛНА ИНФОРМАЦИЯ
 CS DOPLNKOВE INFORMACE
 DA YDERLIGERE OPLYSNINGER
 DE ZUSÄTZLICHE INFORMATIONEN
 EL ΠΡΟΣΩΠΕΤΕΣ ΠΛΗΡΟΦΟΡΙΕΣ

ES INFORMACIÓN ADICIONAL
 ET LISAINFO
 FI LISÄTIEETOJA
 FR INFORMATIONS SUPPLÉMENTAIRES
 GA TUILLÉADH FAISNÉISE
 HU KIEGÉSZÍTŐ INFORMÁCIÓ

IS VIBBÓTARTÆKI
 IT INFORMAZIONI AGGIUNTIVE
 JA 追加情報
 KO 추가 장비
 LT PAPILDOMA INFORMACIJA
 LV PAPILDU INFORMĀCIJA

MT INFORMAZJONI ADDIZZJONALI
 NL AANVULLENDE INFORMATIE
 NO TILLEGGUTSTYR
 PL INFORMACJE DODATKOWE
 PT INFORMAÇÕES ADICIONAIS
 RO INFORMATII SUPLIMENTARE

RU ДОПОЛНИТЕЛЬНАЯ ИНФОРМАЦИЯ
 SK DALŠIE INFORMÁCIE
 SL DODATNE INFORMACIJE
 SV YTTERLIGARE INFORMATION
 TR İLAVE EKİPMAN
 ZH 其它信息



EN MAXIMUM CAPACITY
 BG МАКСИМАЛЕН КАПАЦИТЕТ
 CS MAXIMální NOSNOST
 DA MÅRS. KAPACITET
 DE MAXIMALKAPAZITÄT
 EL ΜΕΓΙΣΤΗ ΧΩΡΗΤΙΚΟΤΗΤΑ

ES CAPACIDAD MÁXIMA
 ET MAKSIMAALNE JÖUDLUS
 FI MAKSIMIKAPASITEETTI
 FR CAPACITE MAXIMUM
 GA UASCHUMAS
 HU MAXIMÁLIS KAPACITÁS

IS HÁMARKS GETA
 IT PORTATA MASSIMA
 JA 最大容量
 KO 최대 용량
 LT MAKSIMALI GALIA
 LV MAKSIMĀLĀ CELTSPĒJA

MT KAPACITÀ MASSIMA
 NL MAXIMAAL LAADVERMOGEN
 NO MAXIMAL KAPASITET
 PL UDŽWIG MAKSYMALNY
 PT CAPACIDADE MÁXIMA
 RO CAPACITATE MAXIMĂ

RU МАКСИМАЛЬНАЯ ГРУЗОПОДЪЕМНОСТЬ
 SK MAXIMálna nosnosť
 SL NAJVEČJA ZMOGLJIVOST
 SV MAXIMAL KAPACITET
 TR MAKSUMUM KAPASITE
 ZH 最大承载能力



EN MAXIMUM CAPACITY BETWEEN FORKS
 BG МАКСИМАЛНА ТОВАРОПОДЪЕМНОСТ МЕЖДУ ВИПЛІЦІТЕ
 CS MAXIMální NOSNOST MEZI VIDLICAMI
 DA MAKSIMAL KAPACITET MELLEM GAFLERNE
 DE MAXIMALE TRAGFÄHIGKEIT ZWISCHEN DEN GABELN
 EL ΜΕΓΙΣΤΗ ΙΚΑΝΟΤΗΤΑ ΑΝΑΜΕΖΑ ΣΤΙΣ ΠΕΡΟΝΕΣ
 ES CAPACIDAD MÁXIMA ENTRE HORQUILLAS
 ET KAHVLITE VAHELLINE MAX. TÖSTEVOIME

FI MAKSIMINOSTOKKY HAARUKOIDEN VÄLISSÄ
 FR CAPACITÉ MAXIMALE ENTRE LES FOURCHES
 GA UASCHUMAS IDIR NA GBAGHL
 HU MAXIMUM TEHERBÍRÁS VILLÁK KÖZÖTT
 IS HÁMARKS GETA MILLI GAFLA
 IT PORTATA MASSIMA TRA LE FORCHE
 JA フォーク間の最大容量
 KO 포크 간 최대 용량

LT MAKSIMALI GALIA TARP ŠAKIU
 LV MAKSIMĀLĀ CELTSPĒJA STĀRP DAKŠĀM
 MT KAPACITÀ MASSIMA BEJN IL-FRIEKET
 NL MAXIMUMCAPACITEIT TUSSEN VORKEN
 NO MAKSIMAL KAPASITET MELLOM GAFLENE
 PL MAKSYMALNY UDŽWIG POMIEDZY WIDLAMI
 PT CAPACIDADE MAXIMA ENTRE GARFOS
 RO CAPACITATEA MAXIMĂ ÎNTRE FURCI

RU МАКСИМАЛЬНАЯ ГРУЗОПОДЪЕМНОСТЬ
 МЕЖДУ ВИЛАМИ
 SK MAXIMálna nosnosť medzi vidlicami
 SL NAJVEČJA ZMOGLJIVOST MED VILICAMI
 SV MAXIMAL KAPACITET MELLAN GAFFLAR
 TR ÇATALLAR ARASI YÜK MERKEZİNDEKİ
 ZH 最大承载能力



EN @ LOAD CENTER
 BG В ЦЕНТРА ХА НАТОВАРВАНЕ
 CS @ STŘED NÁKLADU
 DA VED LASTCENTRUM
 DE @ LASTSCHWERPUNKT
 EL ΣΤΟ ΚΕΝΤΡΟ ΒΑΡΟΥΣ

ES @ CENTRO DE CARGA
 ET @ KOORMUSE RASKUSKESE
 FI @ PAINOPISTEESA
 FR AU CENTRE DE CHARGE
 GA @ LÓDPHOINTE
 HU @ TEHER KÖZEP

IS @ HLEDSLUMIBJA
 IT @ BARICENTRUM DEL CARICO
 JA @ 貨物の中心
 KO @ 하중 중심
 LT TIES KROVINIO CENTRU
 LV KRAVAS CENTRĀ

MT @ ĮCENTRU TAT-TAGħBIJA
 NL @ BIJ LASTZWAARTEPUNT
 NO @ VED LASTEPUNKT
 PL @ ŚRODEK CIEŻKOŚCI ŁADUNKU
 PT @ CENTRO DE CARGA
 RO @ LA CENTRUL DE GREUTATE

RU В ЦЕНТРЕ НАГРУЗКИ
 SK V ČÁZISKU NÁKLADU
 SL @ SREDIŠČE OBREMENITVE
 SV VID LASTENS MITTPUNKT
 TR MAKSUMUM KAPASITE
 ZH 货荷中心



EN MAXIMUM OPERATING PRESSURE
 BG МАКСИМАЛНО РАБОТНО НАЛИЯНЕ
 CS MAXIMální PROVZNI TLAK
 DA MAKSIMAL DRIFTSTRYK
 DE MAXIMALER BETRIEBSDRUCK
 EL ΜΕΓΙΣΤΗ ΠΙΕΣΗ ΛΕΙΤΟΥΡΓΙΑΣ
 ES PRESIÓN DE FUNCIONAMIENTO MÁXIMA
 ET MAKSIMAALNE TÖÖRÖHK

FI MAKSIMITOINTAPAINTE
 FR PRESSION DE SERVICE MAXIMALE
 GA UASBHRU OIBRIUCHÁIN
 HU MAXIMálIS ÜZEMI NYOMÁS
 IS HAMARKS VINUVRÝSTINGUR
 IT PRESSIONE MASSIMA DI ESERCIZIO
 JA 最大運転圧力
 KO 최대 작동 압력

LT MAKSIMALUS EKSPORTACINIS SЛÉGIS
 LV MAKSIMĀLĀS DARBA SPIEDIENS
 MT PRESSJONI MASSIMA TAL-OPERAT
 NL MAXIMUMWERDKR
 NO MAKSIMALT DRIFTSTRYKK
 PL MAKSYMALNE CIŚNIEŃIE ROBOCZE
 PT PRESSÃO MAXIMA DE FUNCIONAMENTO
 RO PRESIUNEAL DE LUCRU MAXIMĂ

RU МАКСИМАЛЬНОЕ РАБОЧЕЕ ДАВЛЕНИЕ
 SK MAXIMálny PREVÁDKOVÝ TLAK
 SL NAJVEČJI DELOVNI TLAK
 SV MAXIMAL ARBETSTRYCK
 TR MAKSUMUM İŞLETME BASINCı
 ZH 最大工作压力



EN MASS OF ATTACHMENT
 BG МАСА НА ПРИСТАВКА
 CS HMOTNOST PŘÍDAVNÉHO ZAŘÍZENÍ
 DA UDSTYRS VÆGT
 DE ANBAUGERÄTGEWICHT
 EL ΜΑΖΑ ΣΥΝΔΕΔΕΜΕΝΟΥ ΕΞΟΠΛΙΣΜΟΥ

ES PESO DEL ACCESORIO
 ET TÖÖSEADME MASS
 FI LISÄLAITTEEN PAINO
 FR MASSE DE L'ACCESSOIRE
 GA MAIS AN FHEISTIS
 HU A SZERELÉK TÖMEGE

IS FJÖLDI TENGINA
 IT MASSA DELL'ATTREZZATURA
 JA 装備総量
 KO 부착 크기
 LT PRIEDO MASĘ
 LV UZKARES IEKĀRTAS MASA

MT PIŽ TAL-ATTACHMENT
 NL MASSA VAN VOORZETAPPARAAT
 NO MASSE FOR TILLEGGUTSTYR
 PL MASA OSPRZETU
 PT PESO DO ACESSÓRIO
 RO MASA ECHIPAMENTULUI ATAŞAT

RU MACCA HABECHOGO ОБОРУДОВАНИЯ
 SK OHOMOTNOSŤ PRÍDAVNÉHO ZARIADENIA
 SL MASA PRIKLJUČKA
 SV DAGGREGATETS VIKT
 TR EK DONANIM AGIRLIĞI
 ZH 货具质量



EN LOST LOAD CENTER DISTANCE
 BG РАЗСТОЯНИЕ ОТ ЦЕНТРА ХА ЗАГУБА НА НАТОВАРВАНЕ
 CS VZDÁLENOST POSUNUTÉHO STŘEDU NÁKLADU
 DA REDUCERET LASTCENTERAFSTAND
 DE VERLORENER ABSTAND ZUM LASTMITTELPUNKT
 EL ΑΠΟΣΤΑΣΗ ΑΠΟΛΕΞΟΝΤΟΣ ΚΕΝΤΡΟΥ ΒΑΡΟΥΣ
 ES DISTANCIA A CENTRO DE CARGA PERDIDA
 ET KOORMUSE RASKUSKESE MUUTUS
 FI KAPASITEETIHUKAN KESKIPEESTEN ETÁSYYS
 FR DISTANCE CENTRE DE CHARGE PERDUE

GA FAD LÓDPHOINTE CAILLTE
 HU ELVESZETT TEHERKÖZEPONT-TÁVOLSÁG
 IS FJARLÆGÐ GLATADS HLEDSLUMIÐJU
 IT SPRESSORE EFFETTIVO
 JA 荷重中心消失
 KO 순상 하중 중심 거리
 LT ATITOLUSIO APKROVOS CENTRO ATSTUMAS
 LV ZAUDĒTS ATTĀLUMS LÍDZ SLOZDES CENTRAM
 MT DISTANZA MÍC-CENTRU TAT-TAGħBIJA MITLUFA
 NL VERLOREN AFSTAND TOT LASTZWAARTEPUNT

NO TAPT LASTEPUNKTAVSTAND
 PL WIELKOŚĆ PRZESUNIĘCIA ŚRODKA CIEŻKOŚCI ŁADUNKU
 PT DISTÂNCIA DO CENTRÓ DE CARGA PERDIDA
 RO DISTANTA LA CENTRUL DE GREUTATE AL SARCINII
 RU ПОТЕРЯННОЕ РАССТОЯНИЕ ДО ЦЕНТРА НАГРУЗКИ
 SK RAZDALJA VYLOŽENIA TÁŽSKA S PŘÍDAVNÝM ZARIADENÍM
 SL RAZDALJA DO PREMAJKNENEGA SREDIŠČA OBREMENITVE
 SV FORLORAT LASTMITTPUNKTSAVSTÅND
 TR KAYIP YÜK MERKEZ MESAFESİ
 ZH 荷载损耗中心距离



EN CENTER OF GRAVITY TO MOUNT FACE DISTANCE
BG ЦЕНТЪР НА ТЕКЕСТА СПРЕМО РАЗСТОЯНИЕТО МОНТАЖНАТА ЧЕПНА ПОВЪРХУНИЯ
CS VZDÁLENOST STŘEDU NÁKLADU K ČELU RÁMU
DA AFSTANDEN MELLEM TYNGDEPUNKT OG MONTERINGSFLAENDE
DE ABSTAND ZWISCHEN SCHWERPUNKT UND MONTAGEFLÄCHE
EL ΑΠΟΣΤΑΣΗ ΚΕΝΤΡΟΥ ΒΑΡΟΥΣ ΑΠΟ ΤΗΝ ΠΡΟΣΟΨΗ ΒΑΣΗΣ
ES DISTANCIA DE CENTRO DE GRAVEDAD A CARA DE MONTAJE
ET RASKUSKEKME KAUGUS EESMISEST KINNITUSPINNAST
FI PAINOPISTEEN ETÄISYYS KINNITYSPINNASTA
FR DISTANCE CENTRE DE GRAVITÉ-FACE DE MONTAGE

GA FAD IDIR AN MEÁCHANLÁR AGUS AN ÉADAN FEISTE
HU SÜLYPONT - SZERELŐFELÜLET TÁVOLSÁG
IS MÍÐJA ÝNGDARAFLS TIL AB HLADA ÚR LÍKAMSFJARLÆGD
IT CENTRO DI GRAVITÀ' DAL PIANO DI AGGANCIO
JA マウント面への重心
KO 장착 면 거리에 대한 중력 중심
LT ATSTUMAS NUO SUNKIOJEGOS CENTRO IKI PAGRINDO PRIEKINĖS PŪSES
LV ATĀLUMS NO SMAGUMA CENTRA LĪDZ UZSTĀDIŠANAS VIRSMAI
MT ĮCENTRU TA' GRAVITÀ SAD-DISTANZA MOUNT FACE
NL AFSTAND TUSSEN ZWAARTEPUNT EN MONTAGEVLAK

NO AVSTAND TYNGDEPUNKT TIL MONTERINGSFLATE
PL ODLEGŁOŚĆ OD ŚRODKA CIĘŻKOŚCI DO CZOLE ZAWIESZENIA
PT DISTÂNCIA DO CENTRO DE GRAVIDADE À SUPERFÍCIE DE MONTAGEM
RO DISTANȚA DE LA CENTRUL DE GREUTATE LA SUPRAFAȚA DE MONTARE
RU РАССТОЯНИЕ ОТ ЦЕНТРА ТЯЖЕСТИ ДО УСТАНОВОЧНОЙ ПОВЕРХНОСТИ
SK VZDIALENOSŤ ČAŽSKA OD ČELNEJ STRANY UCHYTENIA
SL RAZDALJA TEŽIŠČA OD SPREDNJE MONTAŽNE STRANI
SV AVSTÅND TYNGDPUNKT TILL MONTERINGSYTA
TR AGIRLIK MERKEZİ İLE FORK YÜZÜ ARASI MESAFE
ZH 重心到安装面的距离



EN YEAR OF MANUFACTURE
BG ГОДИНА НА ПРОИЗВОДСТВО
CS ROK VÝROBY
DA PRODUKTIONÅR
DE JAHR DER HERSTELLUNG
EL ΕΤΟΣ ΚΑΤΑΣΚΕΥΗΣ

ES AÑO DE FABRICACIÓN
ET VALMISTAMISAASTA
FI VALMISTUSVUOSI
FR ANNÉE DE FABRICATION
GA BLAINE DÉANTUSAIOCHTA
HU A GYÁRTÁS ÉVE

IS FRAMELEÐSLUÁR
IT ANNO DI FABBRICAZIONE
JA 製造年度
KO 제조년
LT PAGAMINIMO METAI
LV RAZOŠANAS GADS

MT SENA TA' MANIFATTURA
NL BOUWJAAR
NO PRODUKSJONSÅR
PL ROK PRODUKCJI
PT ANO DE FABRICO
RO ANUL DE FABRICATIE

RU ГОД ИЗГОТОВЛЕНИЯ
SK ROK VÝROBY
SL LETO IZDELAVE
SV TILLVERKNINGSÅR
TR ÜRETİM YILI
ZH 制造年份



EN CAPACITY OF TRUCK AND ATTACHMENT COMBINATION MAY BE LESS THAN ATTACHMENT CAPACITY SHOWN. CONSULT TRUCK NAMEPLATE. THE CAPACITY OF THE TRUCK AND ATTACHMENT COMBINATION SHALL BE COMPLIED WITH.
BG КАПАЦИТЕТЪТ НА СЪБЛЮДЕНИЕТО ПОДВИГАЧ И ПРИСТАВКА МОЖЕ ДА БЪДЕ ПО-МАЛЪК ОТ ДАДЕНИЯ КАПАЦИТЕТ НА ПРИСТАВКАТА. ВИЖТЕ ТАБЕЛКАТА НА ПОДВИГАЧА. ТОВАРОПОДЕМНОСТТА НА КАРА И КОМБИНАЦИЯТА ОТ ПРИСТАВКИ ТРЯБВА ДА СЪОТВЕТСТВАТ.
CS NOSNOST KOMBINACE VOZÍKU S PŘÍDAVNÝM ZAŘÍZENÍM MUŽE BYT MENŠÍ NEž UVEDENÁ NOSNOST PŘÍDAVNÉHO ZAŘÍZENÍ. PROHLÉDNĚTE SI ŠTÍTEK VOZÍKU. NOSNOST KOMBINACE VOZÍKU A PŘÍDAVNÉHO ZAŘÍZENÍ NESMÍ BYT PŘEKROČENA.
DA DEN SAMLEDE KAPACITET FOR TRUCKEN OG DET PÅMONTEREDE TILBEHØR KAN VÆRE MINDRE END DEN VISTE KAPACITET FOR TILBEHØRET. SE TRUCKENS NAVNEPLADE. KOMBINATIONEN AF TRUCKENS KAPACITET OG TILBEHØRET SKAL OVERHOLDES.
DE DIE TRAGKRAFT DER KOMBINATION AUS STAPLER UND ANBAUGERÄT KANN GERINGER SEIN ALS DIE ANGEGBENE NENNTRAGFÄHIGKEIT. SIEHE TYPENSCHILD. DIE TRAGFÄHIGKEIT DER STAPLER-ANBAUGERÄT-KOMBINATION MUSS DAMIT ÜBEREINSTIMMEN.
EL Η ΧΩΡΤΙΚΟΤΗΤΑ ΤΟΥ ΟΧΗΜΑΤΟΣ ΚΑΙ ΣΥΝΔΥΑΣΜΟΥ ΕΞΑΡΤΗΜΑΤΩΝ ΕΝΔΕΙΧΕΤΑΙ ΗΝΑΙ ΧΑΜΗΛΟΤΕΡΗ ΑΠΟ ΤΗ ΧΩΡΤΙΚΟΤΗΤΑ ΤΟΥ ΕΞΑΡΤΗΜΑΤΟΣ ΣΤΟ ΠΑΡΑΔΕΙΓΜΑ. ΣΥΜΒΟΥΛΕΥΤΕΙΤΕ ΤΗΝ ΕΤΙΚΕΤΑ ΟΧΗΜΑΤΟΣ. Η ΙΚΑΝΟΤΗΤΑ ΤΟΥ ΟΧΗΜΑΤΟΣ ΚΑΙ ΤΟΥ ΣΥΝΔΕΔΕΜΕΝΟΥ ΕΞΟΠΛΙΣΜΟΥ ΠΡΕΠΕΙ ΝΑ ΕΙΝΑΙ ΣΥΜΒΑΤΕΣ.
ES LA CAPACIDAD COMBINADA DE CARRETILLA Y ACCESORIO PUEDE SER MENOR QUE LA CAPACIDAD DEL ACCESORIO INDICADA. CONSULTE LA PLACA DE CARACTERÍSTICAS DE LA CARRETILLA. DEBE CUMPLIRSE LA CAPACIDAD COMBINADA DE CARRETILLA Y ACCESORIO.
ET LAADURI JA TÖÖSEADME KOMBINATSIOONI JÕUDLUS VÔIB OLLA VÄIKSEM KUI TÖÖSEADME NAIDATUD JÕUDLUS. VAADAKE LAADURI ANDMEPLAATI. LAADUR JA TÖÖSEADE PEAVAD OLEMA ÜKSTEISEGA VASTAVUSES.
FI TRUKKI-JA LISÄLAITEYHDISTELMAN KAPASITEETTI VOI OLLA PIENEMPI KUIN LISÄLAITTEEN ILMOITETTU KAPASITEETTI. KS. TRUKIN ARVOKILPI. TRUKIN JA LISÄLAITTEEN YHDISTELMÄN NOSTOKSYKYÄ ON NOUDATETTAVA.
FR LA CAPACITE DE LA COMBINAISON CHARIOT/ACCESOIRE PEUT S'AVERER INFERIEURE A CELLE INDIQUEE POUR L'ACCESSOIRE. SE REPORTER A LA PLAQUE SIGNALIQUE DU CHARIOT. RESPECTER LA CAPACITÉ DU CHARIOT ET DE L'ACCESSOIRE COMBINÉS.
GA D'FHÉADFADH NIOS LÚ Cumais ag a BHÉITH AG AN TRUCAIL AGUS FEISTEAS NÁ AN CUMAS FEISTIS A THAISPEÁNTAR. FÉACH AR AIMCHLÁR NA TRUCAILE. CLOÍFEAR LE CUMAS NA TRUCAILE AGUS AN CHOMHCHEANGAL FEISTIS.
HU A TARGONCA ÉS A TARTOZÉK KOMBINÁCIÓ KAPACITÁSA LEHET, HOGY KEVESEBB, MINT AZ ÁBRÁZOLT TARTOZÉK KAPACITÁSA. LÁSD A TARGONCA ADATTABLÁN. A TARGONCA ÉS SZERELÉK KOMBINÁCIÓ TEHERBÍRÁSÁNAK ELEGET KELL TENNIE ENNEK.
IS GETA VÖRÜBÍLSIG OG VIÐHENGISVIÐBÓTTAR GETUR VERID VERID MINNI EN GETA VIÐHENGIS ER SÝND. RÁÐFAÐERID YKKUR VIÐ NAFNASKILT VÖRÜBÍLSINS. ÞAB Á ÁÐ FYLGJA GETU VÖRÜBÍLSINS OG VIÐHENGISVIÐBÓTTINI.
IT LA PORTATA DELLA COMBINAZIONE CARRELLO/ATTREZZATURE PUÒ ESSERE INFERIORE RISPETTO ALLA PORTATA DELLE ATTREZZATURE DICHiarata. CONSULTARE LA TARGHETTA DEL CARRELLO. DEVE ESSERE RISPETTATA LA PORTATA DELLA COMBINAZIONE CARRELLO ELEVATORE/ATTREZZATURA.
JA フォークリフトの能力と装備の組み合わせは示されている装備の能力より低い場合があります。 フォークリフトのネームプレートを相談。 トラックの容量と装備の組み合わせとは実施済み。
KO 트럭 및 부착 결합물의 용량은 표시된 부착물 용량보다 적을 수 있습니다. 트럭 명판을 참조하십시오. 트럭 및 부착물 결합의 용량을 준수해야 합니다.
LT KRAUTUVO IR PRIEDO DERINIO GALINGUMAS GALI BŪTI MAŽESNIS NEGU NURODYTAS PRIEDO GALINGUMAS. SKAITYKITE INFORMACIJĄ KRAUTUVO INFORMACINĖJE PLOKŠTELĖJE. BŪTINA NEVIRSYTI KRAUTUVO IR PRIEDO DERINIO GALIOS.
LV AUTOIEKRĀVĒJA UN PIEDERUMA KOPĒJĀ CELTSPĒJĀ VAR BŪT MAZĀKA PAR NORĀDĪTO PIEDERUMA CELTSPĒJU. SKATĪT AUTOIEKRĀVĒJA TEHNISKO DATU PLĀKSNTI. IR JĀIEVĒRO AUTOEKRĀVĒJA UN UZKARES IEKĀRTAS KOPĒJĀ CELTSPĒJĀ.
MT IL-KAPAÇITÀ TAT-TRAKK I TAT-TAGHMIR IMQABBAD MIEGHU TISTA' TKUN INQAS MILL-KAPAÇITÀ MURJA TAT-TAGHMIR IMQABBAD MIEGHU. ICČEKKA L-PJANČA TAL-ISEM TAT-TRAKK. IL-KAPAÇITÀ TAT-TRAKK FLIMKIEŃ MA' DIK TAT-TAGHMIR IMQABBAD MIEGHU TRID TIGI SSODISFATA.
NL HET DRAAGVERMOGEN VAN DE COMBINATIE VAN HEFTRUCK EN VOORZETAPPARAAT KAN LAGER ZIJN DAN HET VERMELDE DRAAGVERMOGEN VAN HET VOORZETAPPARAAT. KIJK OP HET TYPEP LAAT JE VAN DE HEFTRUCK. MET DE CAPACITEIT VAN DE COMBINATIE VAN TRUCK EN VOORZETAPPARAAT WORDT REKENING GEHOUDEN.
NO TOTAL KOMBINERT KAPASITET FOR GAFFELTRUCK OG TILBEHØR KAN VÆRE MINDRE ENN ANGITT KAPASITET FOR TILBEHØRET. SE GAFFELTRUCKENS NAVNEPLATE. DEN TOTALE KAPASITETEN FOR GAFFELTRUCK OG TILLEGGSUTSTYR KOMBINERT MÅ OVERHOLDES.
PL UDZWIG ZESPOLU WÓZKA I OSPRZĘTU MOŻE BYĆ MNIEJSZY NIZ POKAZANY UDZWIGU ZESPOLU WÓZKA I OSPRZĘTU.
PT A CAPACIDADE DA COMBINAÇÃO DO EMPILHADOR E DO ACCESSÓRIO PODE SER INFERIOR À CAPACIDADE DO ACESSÓRIO APRESENTADA. CONSULTE A CHAPA DE ESPECIFICAÇÕES DO EMPILHADOR. CAPACIDADE DO CAMINHÃO E COMBINAÇÃO DE PENHORA DEVE SER RESPEITADO.
RO CAPACITATEA VEHICULULUI și a combinatiei dispozitivelor de PRINDERE POATE FI MAI MICĂ DECĂT CAPACITATEA DISPOZITIVELOR DE PRINDERE INDICATĂ. CONSULTAȚI PLACUTA CU CARACTERISTICILE TEHNICE ALE STIVUITORULUI. CAPACITATEA COMBINATIEI STIVUITOR - ECHIPAMENTE ATASATE TREBUIE RESPECTATA.
RU СОВМЕСТНАЯ ГРУЗОПОДЪЕМНОСТЬ АВТОПОГРУЗЧИКА И НАВЕСНОГО УСТРОЙСТВА МОЖЕТЬ БЫТЬ НИЖЕ УКАЗАННОЙ ГРУЗОПОДЪЕМНОСТИ НАВЕСНОГО УСТРОЙСТВА. СМ. ТАБЛИЧКУ ТЕХНИЧЕСКИХ ДАННЫХ. НЕОБХОДИМО СОБлюДАТЬ КОМБИНИРОВАННУЮ ГРУЗОПОДЪЕМНОСТЬ АВТОПОГРУЗЧИКА И НАВЕСНОГО ОБОРУДОВАНИЯ.
SK NOSNOSŤ VOZÍKA A PŘÍDAVNÉHO ZARIadenia môže byť menšia ako uvedená nosnosť přídavného zariadenia. Blížšie informácie uvedené na typovom štítku vozíka. Nosnosť vozíka s přídavným zariadením bude doopravdy.
SL ZMOGLJIVOST KOMBINACIJE VILIČARJA IN OPREME JE LAHKO MANJŠA OD PRIKAZANE ZMOGLJIVosti OPREME. UPOŠTEVAJTE NAPISNO PLOŠČICO VILIČARJA. UPOŠTEVATI JE POTREBNO ZMOGLJIVOST KOMBINACIJE VILIČARJA IN OPREME.
SV KAPACITETEN FÖR KOMBINATIONEN GAFFELTRUCK OCH AGGREGAT KAN VARA MINDRE ÄN ANGINEN KAPACITET. LÄS GAFFELTRUCKENS TYPSKYLT. KAPACITETEN FÖR KOMBINATIONEN GAFFELTRUCK OCH AGGREGAT SKA FÖLJAS.
TR ARAÇ KAPASITESI VE DONANIM KOMBİNASYONU, GÖSTERİLEN DONANIM KAPASITESİNDEKİ DÜŞÜK OLABİLİR. ARAÇ BİLGİ ETİKETİNE BAŞVURUN. ARAÇ KAPASITESİ VE DONANIM KOMBİNASYONU YÜZÜMLÜ OLMALIDIR.
ZH 叉车与叉车属具的综合承载能力可能小于显示的叉车属具承载能力。请参考叉车铭牌。应符合叉车与叉车属具的综合承载能力。

Do you have questions you need answered right now? Call your nearest Cascade Service Department. Visit us online at www.cascorp.com

En cas de questions urgentes, contacter le service d'entretien Cascade le plus proche. Visiter le site Web www.cascorp.com.

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