



Installation Instructions

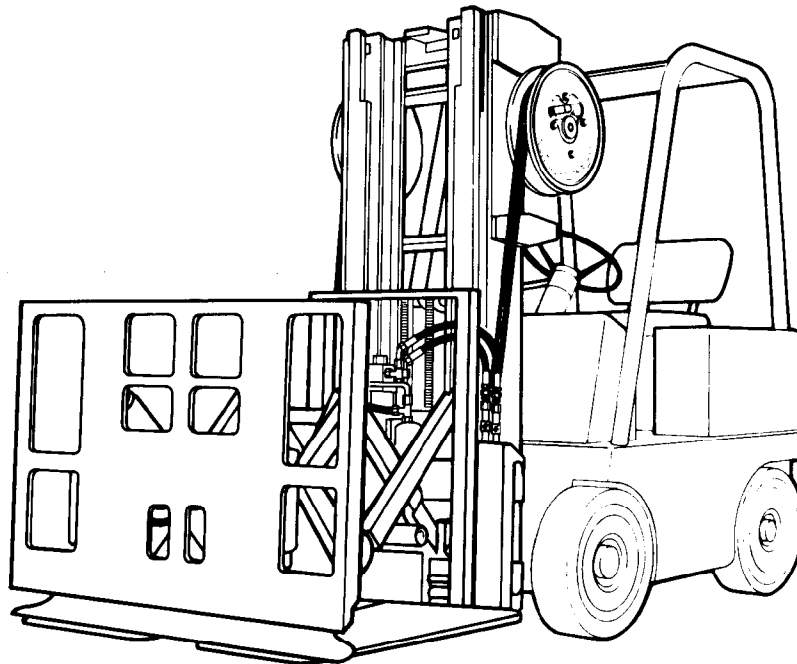
30D QFM™ Quick Fork Mount Push/Pull

IMPORTANT: Field alterations may impair performance or capability and could result in loss of warranty. Consult Cascade for any required modifications.



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.

Pallet forks are required to support the load and attachment.



Manual Number 674352 R-2

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Requirements



WARNING: The QFM™ Push/Pull must be mounted on standard forks to support the load and the attachment.

- **Fork Specifications:** Forks up to 1.8 in. thick and 40 to 46 in. long may be used. Recommended fork length is 42 in. with bottom taper. The forks must be adjustable to 22.5-25.5 in. between the inner edges of the forks.
- **Sideshifter Limitations:** To avoid mounting interference, the sideshifter components and cylinder must not protrude in front of the carriage fork bars.
- Truck Relief Valve Setting: 2300 psi, maximum
- Volume: 4-10 GPM
- Recommended minimum hose and fitting size: No. 6 (.375 in. I.D.)
- Truck carriage or sideshifter carriage must conform to the Industrial Truck Association (ITA) dimensional standards as shown in the chart at right.
- The truck carriage or sideshifter carriage must be clean and undamaged. The front face of the carriage bars must be flat.
- To conform with industry standard practice, the hoses should be connected to the truck auxiliary valve as indicated by the chart at right.



Mounting	Dimension A (in.)	
	Min.	Max.
Class II	14.94	15.00

Function, in sequence of location to the operator	Attachment Movement	Motion of the operator's hand when actuating the truck auxiliary control handle while facing the load.
Sideshift (when equipped)	Sideshift Right	Rearward or Up
	Sideshift Left	Forward or Down
Push/Pull *	Pull (rearward)	Rearward or Up
	Push (forward)	Forward or Down

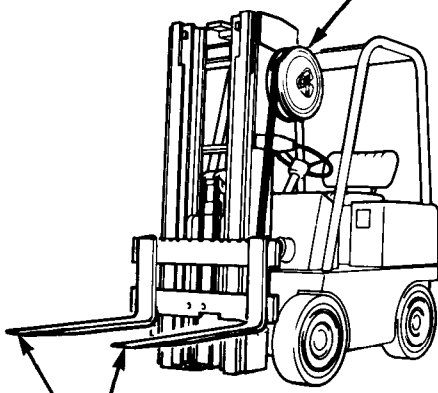
* Trucks equipped with a three-function auxiliary control valve and solenoid adaption require the control knob electrical button to be depressed for operation of the push/pull function.

Truck Preparation

The following preparation should be performed prior to attachment installation.

The QFM™ Push/Pull requires a mast hydraulic supply group. If a sideshifter is not installed and the truck is not equipped with mast internal hose reeving, a hose reel will be required. Refer to Form 673835 for THINLINE™ Hose Reel installation instructions.

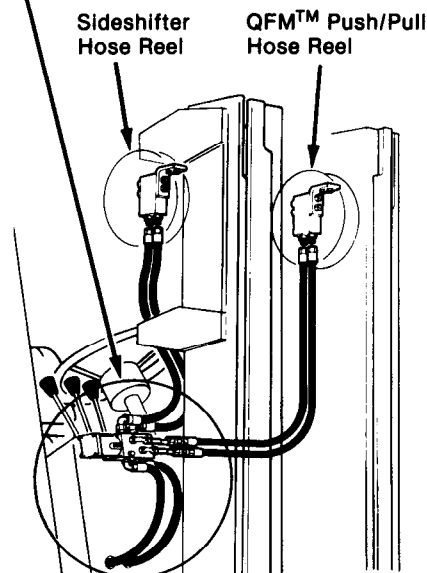
Cascade THINLINE™ Hose Reel and mast supply group for QFM™ Push/Pull operation.



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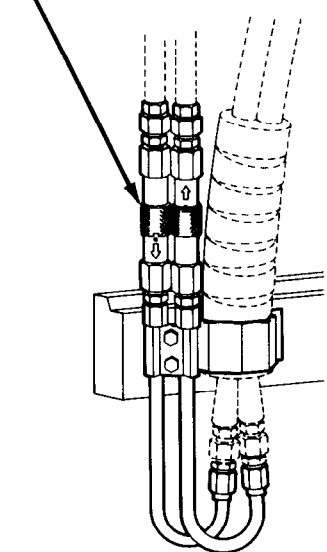
Trucks equipped with a sideshifter and a single-function auxiliary control valve will require conversion to two-function operation by installation of Solenoid Adaption Kit 674303. Refer to Form 674306 for installation instructions.

Cascade Solenoid Adaption Kit 674303



For fast QFM™ Push/Pull installation and removal from the truck, install Hydraulic Quick Disconnect Coupling Kit 671045. Refer to Form 671422 for installation instructions.

Cascade Hydraulic Quick Disconnect Coupling Kit 671045



Installation

Attach a hoist rated at 2000 lbs. minimum.

2 x 4



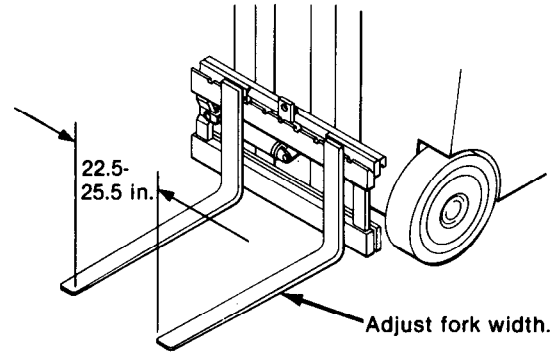
WARNING:
Do not lift by the faceplate.

Lower Mounting Hooks

1. Attach a hoist rated at 2000 lbs. minimum through the frame and faceplate as shown. Remove the attachment from the shipping pallet. Pull out the lower mounting hook locking pins and turn the lower mounting hooks downward until they lock in position. Place the attachment on the floor with a 2 x 4 under the platen tips.

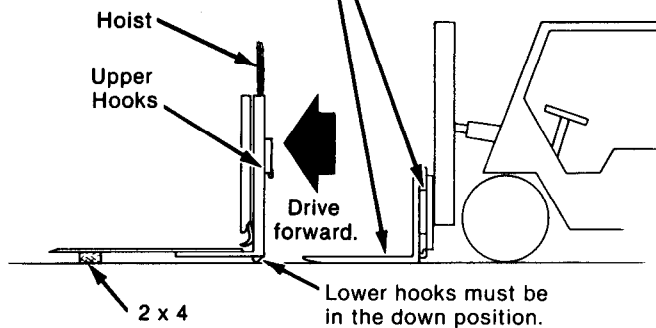


WARNING: The QFM™ Push/Pull must be mounted on standard forks to support the load and the attachment.

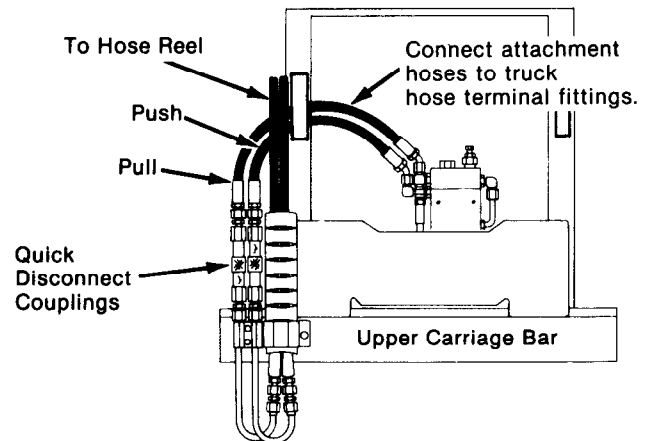


2. Adjust the truck forks to a measurement of 22.5-25.5 in. between the inner edges of the forks. Engage fork detent pins in appropriate notches.

Position carriage and forks.

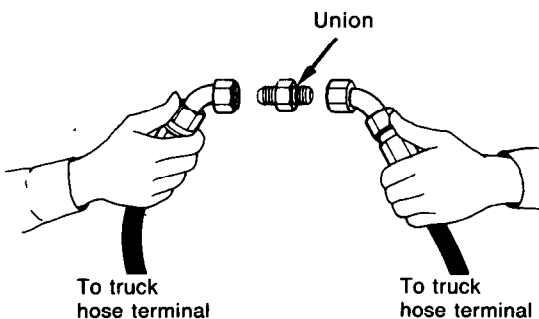


3. Position the truck carriage in the true vertical position. Lower the forks to the ground. Center the truck carriage behind the forks. Drive forward to **fully** engage the truck upper carriage bar with the attachment upper hooks. Raise the attachment 1 or 2 in.



4. Connect the attachment hoses to the truck hose terminal fittings or Quick Disconnect fittings. Route the hoses to avoid interference with the mast.

NOTE: Installation of Cascade Quick Disconnect Hydraulic Coupler Kit 671045 is recommended.

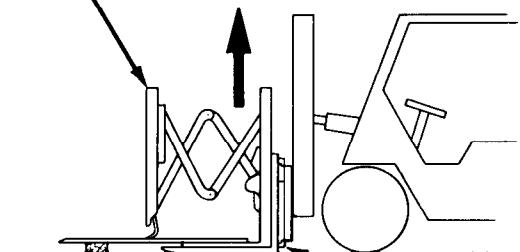


Connect hoses together.

5. Disconnect the truck supply hoses from the attachment valve assembly fittings. Connect the hoses together with a union fitting. Start the truck and actuate the truck control valve in both directions for about 30 seconds to carry any debris in the supply group to the truck tank and filter. On trucks equipped with solenoid adaption, the control knob electrical button must be pressed. Reinstall the hoses to the attachment valve.

Position faceplate at 3/4 travel.

Raise attachment to eye level.



6. Actuate the push/pull control valve to position the faceplate out approximately 3/4 of its travel on the platen. Raise the attachment to eye level to gain access to the lower mounting hooks.



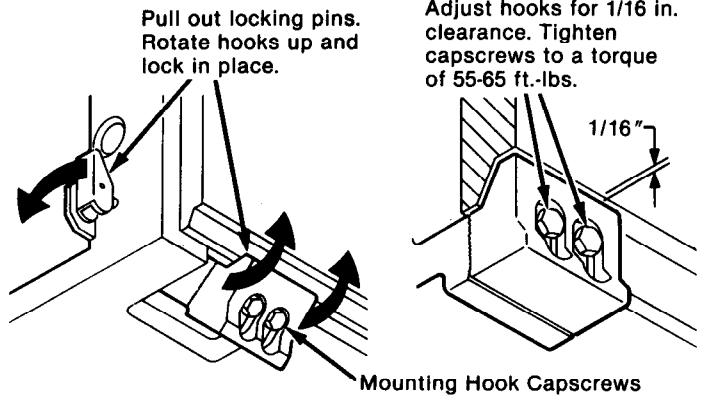
WARNING: The lower mounting hooks are not secured at this time. Use caution while working near the raised attachment.

Installation

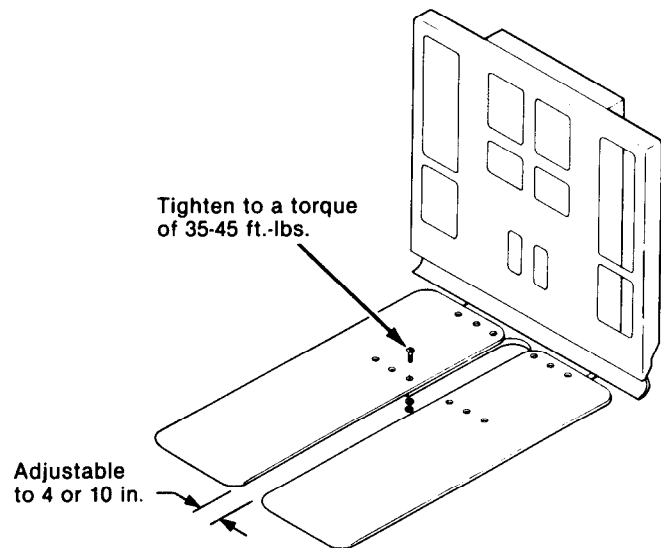
7. Loosen the mounting hook capscrews. Position hooks down to end of adjustment slot. Pull out the lower mounting hook locking pins. Rotate the hooks up and lock in place. Adjust the hooks for 1/16 in. clearance with the lower carriage bar. Tighten the capscrews to a torque of 55-65 ft.-lbs.



WARNING: The lower hooks must be firmly locked in the up position.



8. The inside spacing between the platens can be adjusted to 4 in. or 10 in. as required. Remove the platen capscrews and nuts. Move the platens to line up with the other set of predrilled holes. Install the capscrews and nuts. Tighten to a torque of 35-45 ft.-lbs.



Prior to Operation

1. Operate the attachment through several complete cycles to make sure all functions operate correctly.
 - Retract the faceplate and note that the gripper bar closes fully before the faceplate retracts.
 - Extend the faceplate and note that the gripper bar opens before the faceplate extends.
 - With the faceplate extended and the control valve in neutral, the gripper bar should not drift down.
2. Check for external leaks at the hoses and fittings.

