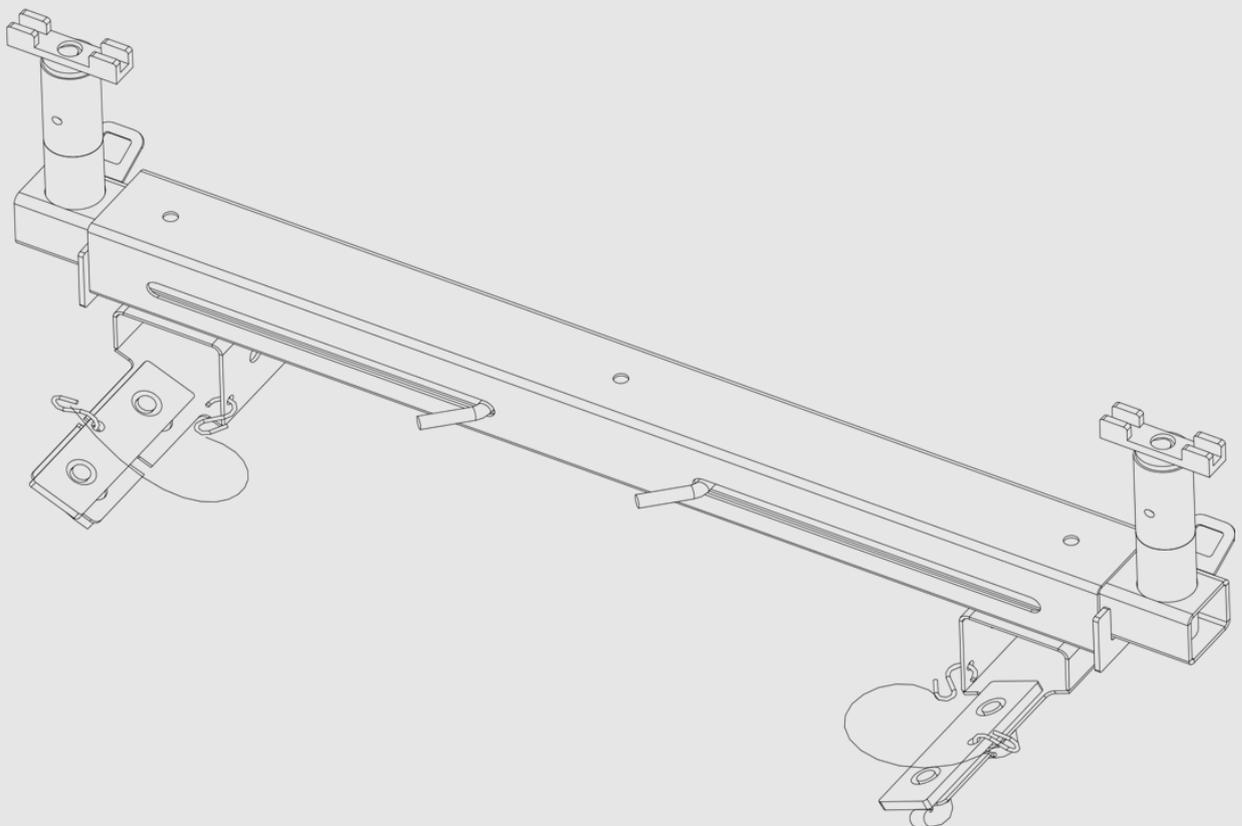


MAHLE CAD-15FCO

EN

Operation Manual
Ford Cab Adapter





**EVERY PERSON WHO OPERATES THIS
EQUIPMENT NEEDS TO KNOW AND
UNDERSTAND ALL OF THE INFORMATION IN
THIS MANUAL – FAILURE TO DO SO COULD
RESULT IN SERIOUS INJURY OR DEATH.**

**READ THIS MANUAL
CAREFULLY AND
RETAIN FOR YOUR
RECORDS**

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1. Safety Regulations

1.1 Warnings

The Cab Adapter is designed to be used in conjunction with the manufacturer's column lift system to raise a truck cab by contacting the under-cab pinch welds.

- ⚠ ALWAYS USE (2) cab adapters in conjunction with a set of (2) column lifts from the same manufacturer. The cab adapters must each be positioned at opposite sides of the vehicle to be lifted and centered side-to-side with clear access to the vehicle's cab. Use of one cab adapter on a vehicle can cause the vehicle's cab to be unstable, unlevel, and prone to falling.
- ⚠ The cab adapters shall NEVER be used in any configuration other than a set of (2) column lifts with each lift having a cab adapter attached by properly inserting the locking pin brackets and positioned at opposite sides of the vehicle.
- ⚠ ALWAYS USE adequate ratchet straps to secure the cab to the cab adapter.
- ⚠ DO NOT exceed rated capacity.
- ⚠ USE ONLY on a hard level surface capable of sustaining the load.
- ⚠ DO NOT use attachments or cribbing devices to increase the start height unless they are supplied by the manufacturer of this device.
- ⚠ NO alterations shall be made to this device.
- ⚠ USE ONLY these adapters on column lifts produced by the same manufacturer as these adapters.
- ⚠ ALWAYS follow the column lift and cab adapter owner's manuals when operating column lifts in conjunction with cab adapters. If you need a copy of an owner's manual, contact the manufacturer.

Failure to heed these warnings can result in personal injury and/or property damage.

2. Foreword

2.1 From the manufacturer

Thank you for your purchase. To complement the offering of A/C, fluid and nitrogen service equipment, MAHLE Service Solutions has partnered with Gray Manufacturing to provide the highest quality hydraulic and pneumatic equipment available for the professional service technician. This equipment adheres to high standards promised in the MAHLE guarantee including the assurance of innovation and reliability that comes with the Gray Manufacturing name. Please contact MAHLE Service Solutions' customer service at (800) 468-2321 or tech.mss@us.mahle.com with any comments or questions.

3. Symbols Use

3.1 Signal words

Signal words call attention to a safety message or messages, or a property damage message or messages, and designate a degree or level of hazard seriousness. Signal words used in this manual include:

Keyword	Probability of occurrence	Severity of danger if instructions not observed
DANGER	Immediate impending danger	Death or severe injury.
WARNING	Possible impending danger	Death or severe injury
CAUTION	Possible dangerous situation	Minor injury
NOTICE	Possible damage to property	Possible property damage

4. Responsibilities

4.1 Receiving inspection

Before attempting to operate this equipment, thoroughly read and understand this manual. Completely remove all tape and packaging. Inspect the equipment immediately upon delivery. If shipping damage is evident, inform the delivering carrier immediately and contact the manufacturer using the contact information on the back cover of this manual.

4.2 Owner and/or operator responsibilities

The owner of this equipment must read these instructions and maintain them for future reference and for instructing any other users of the equipment. The owner is responsible for keeping all warning labels and instruction manuals legible and intact. Replacement labels and literature are available from the manufacturer. The owner must never authorize or allow anyone to use this equipment until the operator has read and understood the information in this manual and on the accompanying labeling on the equipment itself.

If this equipment is being used in an occupational setting (or workplace), the employer should ensure that all personnel working with and around the equipment know of the risks associated with its use. Personnel involved in the use and operation of this equipment shall be careful, competent, trained, and qualified in the safe operation of the equipment and its proper use when servicing motor vehicles and their components. Safety information provided with this equipment should be emphasized by the employer and understood by each employee. The employer must make this manual available to all personnel using this equipment and all personnel must read and understand the contents of this manual. If the operator is not fluent in English, the manufacturer's instructions and warnings shall be read to and discussed with the operator in the operator's native language by the employer, making sure that the operator comprehends its contents and observes the proper procedures for use of this equipment.

5. Specifications

Model CAD-15FCFO	US units	Metric units
Maximum capacity	1,500 lb. Each	680 kg. Each
Overall width	12 in	30.5 cm
Overall length	69.5 in	176.5 cm
Minimum Start Height	10 in	25.4 cm
Minimum Lift Saddle Spread-Center to Center	40 in	101.6 cm
Maximum Lift Saddle Spread-Center to Center	65.5 in	166.6 cm
Minimum Lift Saddle Clearance from Cross Member	1.5 in	3.8 cm
Maximum Lift Saddle Clearance from Cross Member (w/Extension)	4.75 in (9.75 in)	12 cm (24.8 cm)
Lift Saddle Opening	0.5 in	1.3 cm
Weight	55 lbs.	25 kg

6. Product Description

6.1 Component identification

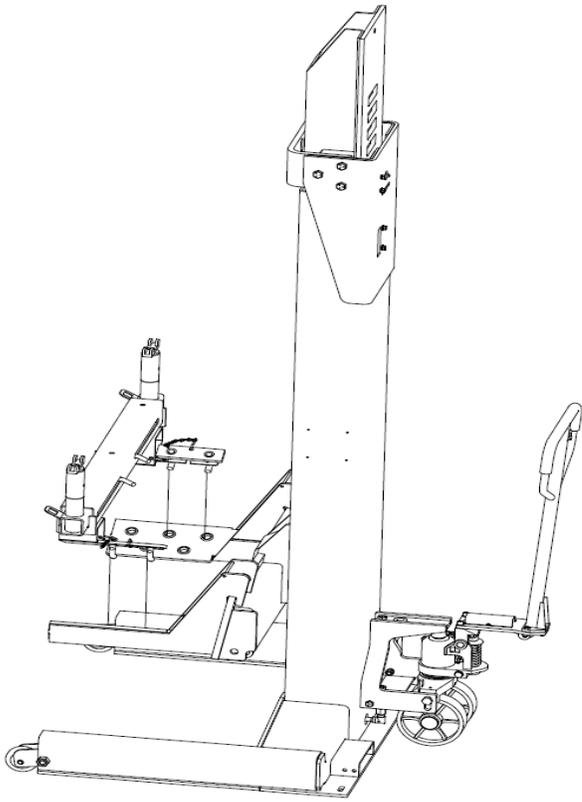
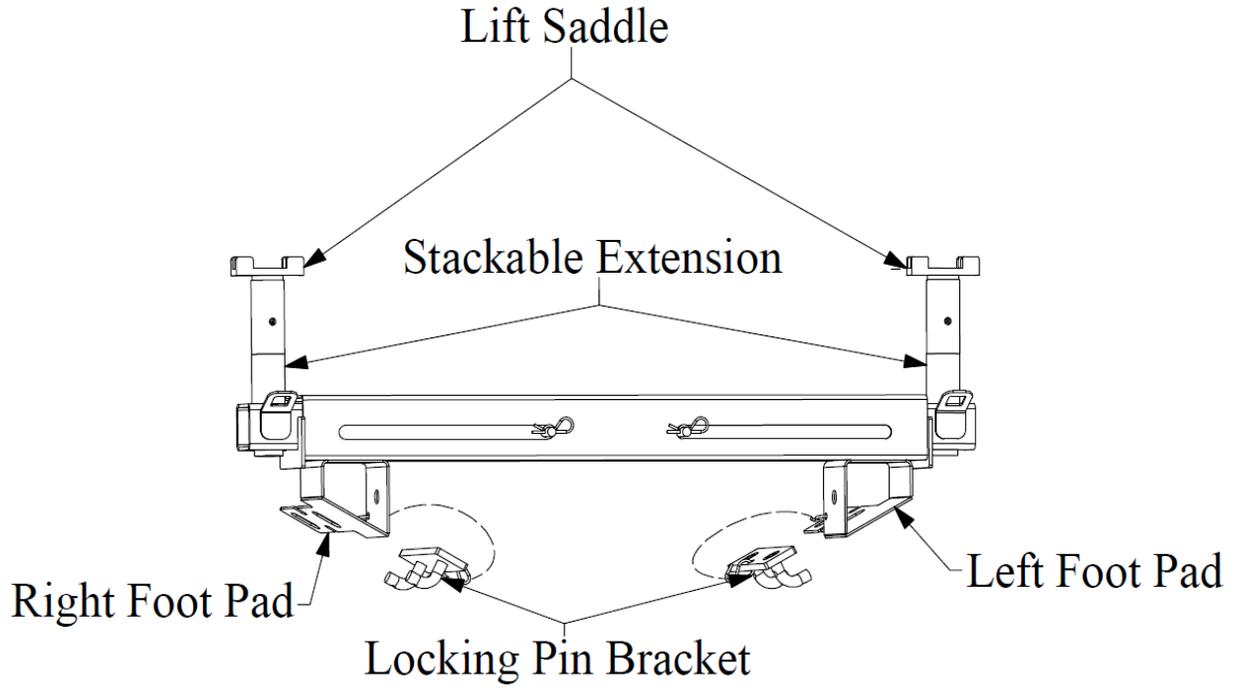


Figure 1

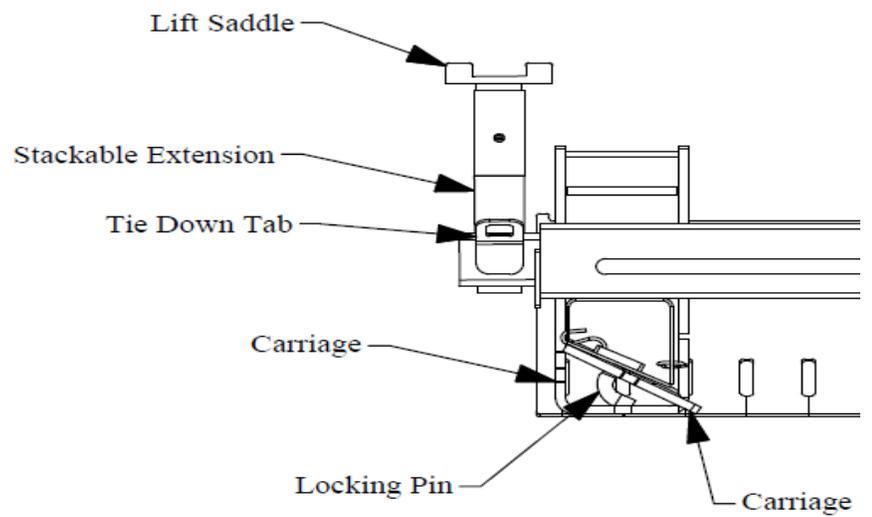


Figure 2

7. Operation

7.1 Adapter Operation

1. Set each cab adapter on the carriage of a lift and align the holes of the cab adapters' foot pads with the rear, innermost holes of the lifts' carriages, as shown in Figure

2. Secure the cab adapters to the lifts with the locking pin brackets. Insert and rotate the pins so that they point toward the inside of the lift carriages after installation as shown in Figure

⚠ WARNING! The cab adapters must be secured by properly inserting the locking pin brackets. Failure to adequately secure the cab adapters can cause the vehicle's cab to be unstable and shift, rock, or fall, possibly leading to property damage, personal injury, and/or death.

3. Roll a WPLS column lift with cab adapter properly attached under each side of the cab to be lifted. Position the column lifts such that the cab adapters are centered with the vehicle's cab and so that the lifting saddles can capture the cab's lower pinch weld.

⚠ WARNING! The lift saddles must be positioned so both saddles of both cab adapters properly engage the cab pinch weld. Failure to lift by the cab pinch weld could result in loss of load and damage to the vehicle. Adjust the lift saddles extension arms side to side, keeping them equidistant from the center of the cab adapter so that any obstacle, such as a tank, pan, or other parts, can be avoided by the lift saddles.

⚠ WARNING! Contacting the vehicle with any part of the cab adapter other than the lift saddles could result in loss of load and vehicle damage.

4. Raise the lift saddles by rotating them counterclockwise until they have just enough height to completely clear any obstacle between the cab adapter extension arms and the vehicle's cab. Closely position lift saddles to cab pinch welds, making sure each lift saddle is equidistant to the pinch weld at point of contact.

5. Once the lift system equipped with cab adapters has been positioned, ensure that the all lift saddles have the same distance between them and their contact point on the cab. If the lift saddles cannot be adjusted as such, the lifts' manual controls must be utilized. Adjust the lift saddles on each cab adapter so that they are at the shortest

possible height that will allow them to clear any obstacle between the cab adapter and the cab. Keep both lift saddles of each cab adapter at the same height. With the cab lift adapters properly positioned, individually raise each lift using its manual controls until it makes minimal contact with the cab. The lifts should be raised just high enough to ensure proper cab engagement.

⚠ WARNING! The cab must always be kept level. Failure to keep the cab level while lifting can result in the cab being unstable and shifting, rocking, or falling, possibly leading to property damage, personal injury, and/or death.

Sync the column lifts and raise the cab according to the lift system's owner's manual supplied with the column lifts. Pay close attention to how the cab reacts when the cab adapters contact the cab lower pinch welds and begin to lift the cab. If the cab shifts, tilts, or rocks, lower the cab and reposition the lift saddles as necessary. If the cab seems secure at this time, attach ratchet straps to the tie down tabs on the cab adapter and a secure mounting point on the cab. Note: The ratchet straps should be positioned on the underside of the cab in a way that prevents the cab from twisting the lift saddles.

Before lowering the vehicle, ensure that all obstructions, including tools, equipment, and personnel, are clear of the vehicle. Lower the vehicle using the procedure outlined in the lift system's owner's manual until the column lifts' carriages are fully lowered. Remove ratchet straps when cab is lowered to just a few inches off the chassis. Once cab is lowered onto Chassis, lower the cab adapters' lift saddles and remove the column lifts from the vehicle.

8. Maintenance Instructions

The following list describes the maintenance that should be performed on the cab adapter on a routine, monthly basis.

1. Check that all placards are clean and legible. Use a mild soap and water solution to clean the placards if dirty. Replace any missing or damaged placards by contacting the manufacturer.
2. Lightly oil the locking pins to prevent corrosion and aid in installation.
3. Clean the threads of the lift saddle adjustment screws to minimize wear and allow easy adjustment.
4. Clean the top of the extension arms to allow the lift saddles to slide freely along the length of the crossbeam.
5. Perform a structural inspection.

8.1 Structural Inspection

WARNING

Equipment must be removed from service and inspected for damage immediately if subjected to an abnormal shock or load. Failure to heed this warning may result in personal injury and / or property damage. It is critical that the cab adapters are inspected regularly for any signs of wear or damage that might affect their ability to perform lifts safely. If the cab adapters appear to be damaged in any way, are found to be badly worn, or operate abnormally, they must be removed from service until necessary repairs are made. Contact the manufacturer if you need to have a cab adapter serviced or if you have any questions about how to address any wear or damage observed on a cab adapter.

The employer, owner, and/or manager is responsible for maintaining the cab adapters in good, serviceable condition. Employees must be trained on how to inspect the cab adapters. Before each use of the cab adapters, the operator must visually inspect the cab adapters for any abnormal conditions. The employer, owner, and/or manager must inspect (or appoint a knowledgeable person to inspect) the cab adapters regularly. Regular inspections should be made weekly (if the cab adapters are used daily) or monthly (if the cab adapters are used

only intermittently). Regular inspections should include the following:

1. Check for any visual cracks, chips, or other signs of excessive wear on any part of the cab adapters.
2. Slide the lift saddles back and forth through their entire range of travel and check for any binding or catching. The lift saddles must move freely to ensure they can be properly positioned under the cab lifting point.
3. Turn the lift saddle adjustment screws, making sure the lift saddle adjustment screws thread freely through their full range of motion.
4. Check the locking pins for signs of damage such as chipping, gouging, or deformation. The pins must be smooth and free of corrosion.
5. Check that all welds are in good condition and do not have any cracks or chips.

If you are not sure whether any identified wear or damage is “serious,” DO NOT use the cab adapter. The time it takes to determine whether or not the problem is “serious” or to repair the problem is small compared to the time it will take to deal with the consequences of a lost load (which could include severe injury or death to personnel.

9. Notes

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