DEMOUNTABLE CONCEPTS, INC.

RailTrailer
Instruction Manual and Maintenance Guide
INSTRUCTIONS
FOR DEMOUNTING BODIES FROM AIR OPERATED DEMOUNTABLE RAILTRAILER

To place bodies in a free standing position on legs

Prepare To Demount

1. Back into position, put the transmission in neutral and push the trailer parking brake to "on".

2. Increase the engine idle, using the throttle, to keep the air pressure at about 110 lbs. It is important that adequate air is supplied to the trailer during the operation.

Unlock Body

1. Remove locking key

2. Push the safety pin handle in

3. Swing the locking handle down

Note: The Locking Handle Alarm and Light will activate when the body is not locked.
**Disconnect Light Plug**

1. Disconnect the light plug from each body.
2. Plug into the receptacle in the side of the trailer.

**Lift Trailer and Tractor**

1. The tractor controls are located on the floor of the cab and the trailer controls are located in the toolbox on the driver’s side of the trailer.
2. Flip the Lever Control Switch to the “UP” position.
3. Put the Push/Pull valve in “Height Control” position.
4. Allow the system to completely fill with air and raise the bodies.
Lower Center Stops

1. Remove pin at center of trailer

2. Lower center stops

Setting the Legs

1. Wear gloves for hand protection.

2. Unlock and remove chained pin from the foot of leg under the body side rail.

3. With hand under the footpad ring, pull the leg out all the way and lower to the vertical position.

4. Adjust the lower leg (inner) as close to the ground as possible and pin it at that height.

5. Put chained pin through upper stabilizing brace and leg.
6. Push leg assembly into the body leg housing until brace touches the truck body.  

7. Check that all pins are secured into the proper position.

Note: After determining ideal body standing height for your operation, mark legs. This will ensure that bodies always stand at proper height for transfer between truck and trailer.

Check Before Lowering Trailer

1. Make sure all body legs are lowered, locked and pinned.

2. Light plug disconnected

   1. Locking handles in lowered position.

Lower Trailer

1. Flip the Lever Control Switch, for tractor and trailer, to the “Down” position.

2. Allow the suspension to completely exhaust.
Pulling Out From Body

1. Make sure there is clearance the entire length of trailer, between the bottom of bodies and top of trailer frame, before pulling trailer out from under the body.

2. Release parking brake.

3. Pull trailer forward slowly.

4. Be sure to pull out straight until entire trailer is out from under the bodies.
1. Set tractor brakes
   Release trailer brakes
2. Raise tractor air suspension
3. Unplug light plug
4. Unlock front body
5. Lower center stop
6. Raise trailer air suspension
7. Unlock rear body
8. Unplug light plug
9. Check that air suspension is fully raised
10. Lower center stop
11. Set legs
12. Set all (8) legs as you make your way back around.
TRACTOR TRAILER CHECK LIST

DEMOUNT BODIES

☐ increase engine idle
☐ release trailer parking brake
☐ lift tractor suspension
☐ unplug light plug, front body
☐ unlock front body
☐ lower center stop, driver side
☐ lift trailer suspension
☐ unplug light plug, rear body
☐ unlock rear body
☐ check trailer air suspension is fully raised
☐ lower center stop, passenger side
☐ check tractor suspension is fully raised
☐ set all body legs, total of 8
☐ lower trailer suspension
☐ lower tractor suspension
☐ check for trailer clearance under bodies
☐ pull straight out
INSTRUCTIONS
FOR MOUNTING BODIES FROM AIR OPERATED DEMOUNTABLE RAILTRAILER

To place bodies on the RailTrailer

Before You Back Up

1. Make sure locking hooks are in the unlocked position.
2. Make sure the center stops are down.
3. Make sure the tractor and trailer air suspensions are dumped.

Backing Up

1. Back the trailer under the bodies slowly by lining the trailer rails in the center of the two body guide rails.
2. Back slowly until the front body stop contacts the truck body’s front scrubber plates just above the guide rails. Don’t hit the body hard.
3. Put the gear in neutral, set tractor parking brake and push the air parking brake to "on". Increase the engine idle, using the throttle, to keep the air pressure at about 110 lbs. It is important that adequate air is supplied to the Trailer during the mounting operation.
4. Raise center stops and secure pins.
Pre-check - Before You Lift Trailer

1. Check that the body is tight against the front trailer stop.
2. Check that rear body is tight against center stop
3. Walk to the back of the trailer and make sure the trailer is properly centered under the bodies, with trailer between the body guide rails.

Lift Trailer and Tractor

1. Flip the Lever Control Switch to the “UP” position.
2. Allow the system to completely fill with air and raise the bodies.
Storing the legs

1. Unlock and remove the chained pin at the upper leg stabilizing brace.

2. Remove lower leg pin.

3. Lift the lower (inner) leg into the upper leg. Lock by inserting the lower leg pin through the inner and outer leg.

4. Lift the entire leg horizontally, including side braces and push into the body’s leg housing compartment.

5. Insert the chained pin through the retainer under the body’s side rails and through the loop on the footpad of the leg.

6. Repeat for all legs.

7. Make sure all leg pins are locked.
Lower Trailer and Tractor to Ride Height

1. Leave the Lever Control Switch to the “UP” position.

2. Put the Push/Pull valve in “Ride Height” position.

*Note: To save time, you can flip the Lever Control Switch to the “Down” position for approximately 10 seconds then follow the steps above. This will lower the suspension to ride height quicker.*

Lock Body

1. Lift the locking handles up

2. Making sure the safety pin/handle goes into place.

3. Insert the locking key in the safety pin.

*Note: The Locking Handle Alarm & Light will turn off when the body is properly locked to the trailer.*
Plug in Light Plugs

1. Connect the body clearance light plug to the body receptacle. **CHECK MARKER LIGHTS.**

Pre Trip


2. Visually check that the trailer locking hooks are fully engaged onto body locking bars.

3. The Tractor and Trailer Push/Pull Valve should be in the “Ride Height” position

4. The unit is now ready to be driven.
1. Unlock body hooks & lower center stops
2. Lower tractor & trailer air suspension
3. Back straight under bodies and set tractor brakes
4. Check that trailer is centered under bodies
5. Raise center stops
6. Raise center stops
7. Release trailer brakes
8. Raise tractor air suspension
9. Raise trailer air suspension
10. Fold away all (8) legs as you make your way back around.
11. Lock rear hooks
12. Plug in light plug
13. Lock front hooks
14. Plug in light plug
15. Set trailer to "ride height"
16. Double check body locks
17. Set tractor to "ride height"

WARNING!!!
Do not move this vehicle without checking all body locking hooks and safety latches.
TRACTOR TRAILER CHECK LIST

MOUNT BODIES

☐ unlock trailer body hooks
☐ center stops DOWN position
☐ lower tractor suspension
☐ lower trailer suspension
☐ back straight under bodies
☐ check that trailer is centered under bodies
☐ raise center stops
☐ release trailer parking brake
☐ increase tractor idle
☐ lift tractor suspension
☐ lift trailer suspension
☐ fold away body legs
☐ lower trailer - set to RIDE
☐ lock on both bodies
☐ plug in both light plugs
☐ double check body locks
☐ lower tractor - set to RIDE

WARNING
DO NOT MOVE THIS VEHICLE WITHOUT CHECKING ALL BODY LOCKING HOOKS AND SAFETY LATCHES
Demountable Trailer Maintenance Check List

NOTE ~ Trailer maintenance to be done with chassis only with no bodies attached. 
NOTE ~ This checklist is in addition to standard trailer maintenance procedures.

**Locking Hooks**

- Check measurements of front hooks  
  (See attached drawing)
- Check measurements of rear hooks  
  (See attached drawing)
- Adjust front and rear hooks as required  
  (See attached instructions)
- Grease all locking shafts on the trailer  
  (See attached drawing)
- Grease locking lever at locking pin  
  (See attached drawing)
- Check that locking lever is in good working order

**Body Divider**

- Check that body dividers work smoothly
- Grease body divider with spray lithium grease  
  (See attached drawing)
- Check body divider pins

**Electrical**

- Check all trailer lights
- Check light plug front and rear
- Clean front trailer 7-way connector
Air Lift System Trailer and Tractor

- Check that air controls work smoothly
- Check condition of air springs (air bags)
- Check condition of shock absorbers
- Check that PSI on regulator is not over 100 PSI
- Cycle air system up, down and ride
- Check all air lines and fittings for leaks or wear
- Check for loose nuts and bolts
- Drain air tanks to remove water

Any questions contact please contact our customer service at:

Toll free 800.254.3643

Email service@demount.com
Instructions for aligning hooks on Demountable Trailer

Check if the welded hooks are out of adjustment.

This adjustment procedure will be done to the hooks that are welded to the locking handle.

Items to check:

A. Are the body stops, flat plates that are welded to the trailer behind the rear hooks, in place and in good condition?

B. Has the driver reported any banging or body movement on inspection reports?

C. Is the pad lock safety key in tact?

D. Measure from the front stop and center dividers to the saddle of hooks welded to the locking handle. This measurement should be 53 13/16” or 185 13/16” +/- ¼”. (On some smaller bodies this measurement will be 149 13/16”) If it is greater than this measurement the hooks will need to be adjusted. Please follow these instructions to make hook adjustments.
Install fixture

Clamp fixture onto chassis lift so that the centerline of the 1 1/8” bar is exactly 53 ¼” from the front stops on the trailer.

Note: The fixture is constructed from the following materials: 1 1/8” round rod 34” long. 2 pieces of 2 x 2 x ¼” angle 6” long)

Note: If you do not have a fixture, clamp a piece of 4” channel onto the top of the trailer behind the hooks. Push the hooks forward until the back of the throat of the hook is exactly 53 13/16”, 185 13/16 +/- ¼”. (On some smaller bodies this measurement will be 149 13/16", from the front stop.) (Detail 1) Always put the fixture on the hooks welded to the locking handle.

Figure 1
Adjust the welded hook assembly

First be sure the fixture is clamped to the trailer and is sitting square on the trailer.

To adjust the hooks first push in on the spring loaded handle and lift the locking handle above its normal locked position (the lock pin will be slightly above the hole on the face plate of the a-frame assembly). See Figure 2. Have a helper clamp the hooks to the locking bar fixture. (If you are using the 4” channel method, the channel should be behind the hooks holding them in the proper position see Detail 1)

![Figure 2](image)

Heat the “elbow” (90 degree part of the 1 7/16” shaft) of the locking bar until it glows orange. See Figure 3. DO NOT CUT THE METAL. Put a 1 ½” pipe over the locking bar and bend it down GENTLY until the spring-loaded pin snaps into place. LET THE LOCKING HANDLE AIR COOL.

![Figure 3](image)
Adjust the linked hooks

Adjust the linked hooks tight to the locking bar on the fixture by adjusting the threaded bar on the linkage rod. When finished tighten the jam nut. See Figure 4.

Install locking bar stops.

We can provide formed ("L") stops that will prevent the body from shifting back. Only install two per body (4 per trailer). Two (2) for the front body and two (2) for the rear body. They can be installed ¼” behind each set of REAR hooks. (If needed you can install the stops on the front hooks for the back body) The stop will only need to stick up 1” above the trailer frame. The idea of this stop is so that when the body wants to shift back the stops will take the pressure instead of the hooks. This will also prevent the driver from incorrectly sliding bodies forward on the trailer frame. Depending on clearance between the hook and the trailer frame you may have to notch into the top flange of the “I” beam to install the stops. (See attached drawing)

Any questions contact please contact our customer service at:

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Demountable Concepts, Inc. is dedicated to maintaining high quality demountable body systems that provide enhanced fleet efficiency and truck utilization for the end user.

Thank you for choosing Demountable Concepts, Inc. We concentrate on building the most dependable demountable truck body systems on the market and pre-assemble and test every system before it leaves our factory. We’re confident you’ll enjoy years of trouble-free operation and back your recent purchase with our warranty (described below). Please call if you have any questions.

Demountable Concepts, Inc. warrants all of its demountable truck body systems to the original purchaser (user only) for a period of ONE (1) YEAR on the mechanical unit itself, and ONE (1) YEAR on the hydraulic components, under normal use and service for which they were intended. Our obligation under this warranty is limited to either the repair or exchange of components, provided that in our judgment the part is defective. Material and labor reimbursement for parts fabricated locally must be authorized in writing by Demountable Concepts, Inc. prior to approval. All replacement parts will be shipped F.O.B. Glassboro, New Jersey.

Demountable Concepts, Inc., prior to acceptance, must authorize returned merchandise. Upon approval for return, merchandise must be shipped prepaid according to our instructions; otherwise, the shipment will be refused. Parts must be returned within thirty (30) days of warranty claim date.

Claims will be considered by the factory, based on the Company’s Flat Rates.

If either pump or cylinder is found to be faulty, DO NOT TRY TO REPAIR. Notify Demountable Concepts, Inc. to replace complete pump or cylinder. We will not honor claims for the repairing of hydraulic components.

Road or travel time will not be reimbursed under any circumstance.

Demountable Concepts, Inc. is not responsible or liable for loss of time, cost, labor, material, profits, direct or indirect damages caused by defective products, whether due to rights arising under purchase, order, contract of sale or independently thereof, and whether or not such claim is based on contract, tort, or warranty. The sale of products of Demountable Concepts, Inc., under any other warranty or guarantee express or implied, is not authorized.

If, for any reason, a Demountable Concepts, Inc. system does not function, please contact our factory immediately. A customer service representative will analyze the problem and provide the proper assistance and/or express the proper parts to keep your trucks moving.

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