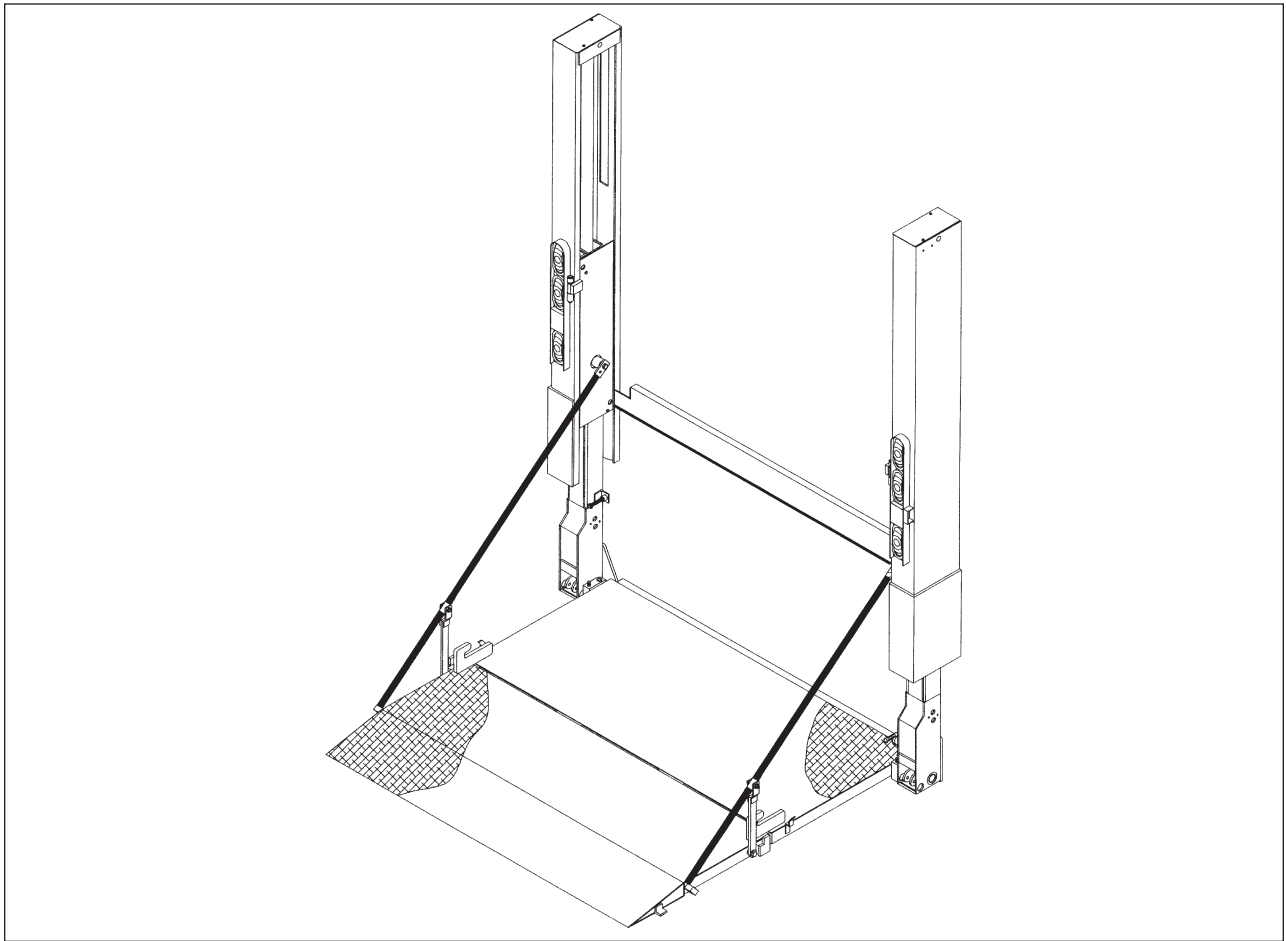


TDR *SERIES*

Railgates By THIEMAN

TDR-44, 55, 66 OWNERS MANUAL/PARTS LIST



IMPORTANT! KEEP IN VEHICLE!

PLEASE READ AND UNDERSTAND THE CONTENTS OF THIS
MANUAL BEFORE OPERATING THE EQUIPMENT.



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FOR YOUR RECORDS

Model No. _____ Date Purchased _____

Serial No. _____

NOTE: When Ordering Parts Be Sure To Include This Information!

Your Thieman Tailgate is constructed of top quality material and is warranted to be free from defects in material and workmanship under normal use. With routine maintenance and proper operation this liftgate will provide long lasting service and dependability.

WARNING!

THE FOLLOWING LIST OF WARNINGS ARE TO BE READ BEFORE OPERATING THE TDR SERIES LIFTGATE:

- + Read this Owner's Manual and all of the decals before operating the liftgate.
- + All protective covers and guards must be in place before operating the liftgate.
- + DO NOT operate the liftgate if you do not have a thorough understanding of the operation of the liftgate.
- + NEVER OVERLOAD THE LIFTGATE! The maximum rated capacity of the TDR series differs with each model as follows:
 - TDR 44 - 4400 lbs
 - TDR 55 - 5500 lbs
 - TDR 66 - 6600 lbs
- + Never use the liftgate if it makes any unusual noises, has vibrations, or fails to operate freely.
- + Make certain that the area below the platform is clear before and at all times during the operation of the liftgate.
- + Keep hands and feet clear of all pinch points.
- + The platform must be in the closed position and lowered onto the stow latches before transit.
- + Always load as close to the center of the platform and as close to the truck as possible. See Figure 1.
- + Never operate lift trucks on or over any part of the platform.
- + Load and unload the platform from the rear and not from the side of the platform. Never remove the platform support chains to load or unload.
- + Only operate liftgate when vehicle is on level ground and parking brake is set.
- + Follow the maintenance guide as outlined in this manual.
- + DO NOT attempt any repairs unless you are a qualified and authorized THIEMAN distributor.
- + If any repairs, adjustments, or maintenance not covered in this manual are required, contact your nearest Thieman distributor or the factory.
- + DO NOT ride the liftgate, it is not intended as a personnel lift.
- + This liftgate is intended for the use of loading and unloading cargo only, and is not to be used for anything other than this.
- + DO NOT modify or alter the function of this liftgate. Altering this liftgate may cause serious personal injury or damage the liftgate and will void all warranties.
- + Dock loading bed heights for a 62" deep platform is 40 to 60 inches. Dock loading bed heights for the 74" and 86" deep platforms are 45 to 60 inches.
- + DO NOT fold or unfold the platform unless the liftgate is in the fully raised position or damage to the liftgate may occur.

WATER LEVEL LOADING

When a maximum load is to be raised or lowered, this load must be centered on the load bearing platform, both front to back and side to side.

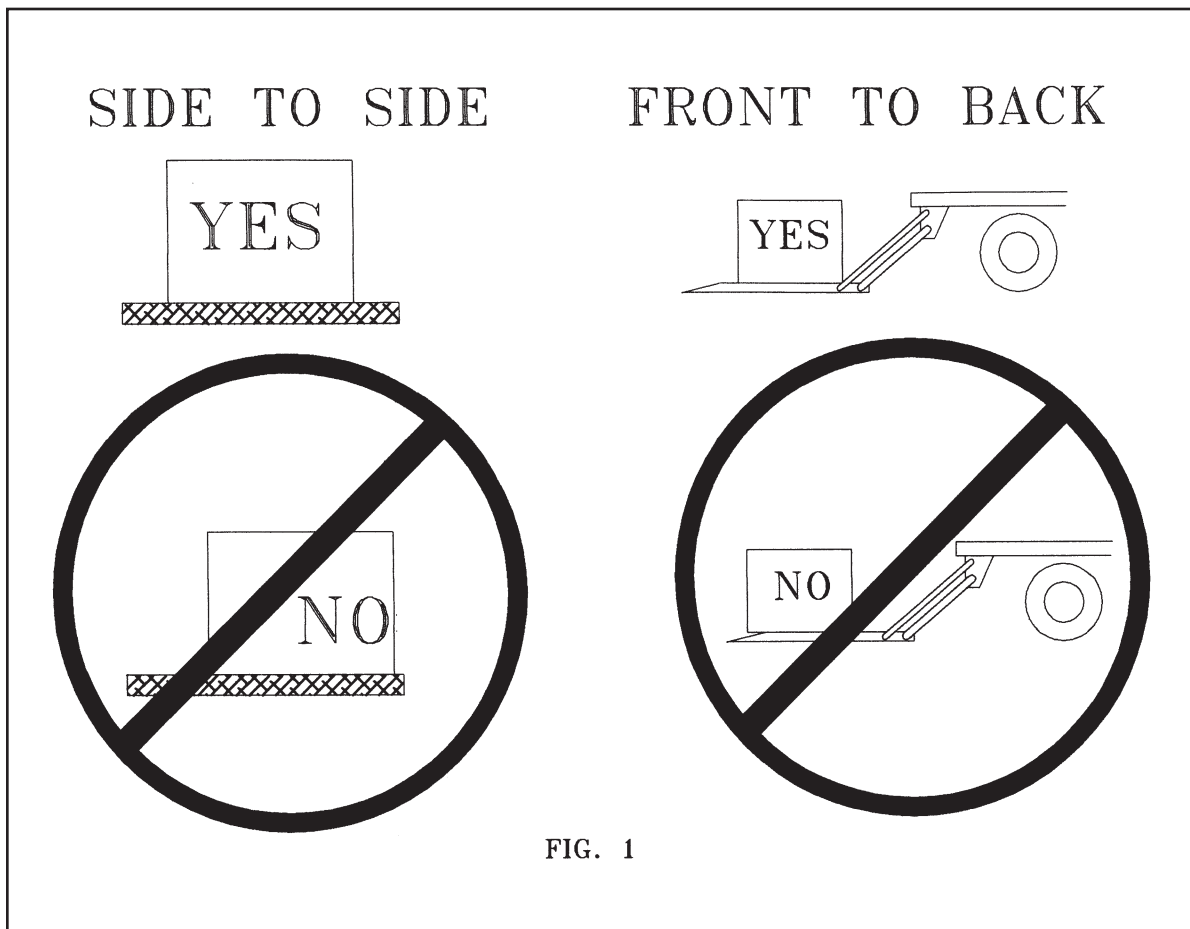


FIG. 1

OPERATING INSTRUCTIONS

Be sure to operate liftgate at a safe distance and never improperly load platform as this may cause personal injury or damage to the liftgate.

OPENING OF PLATFORM

1. Insert key into switch and turn clockwise to ON position.
2. Push RAISE switch until the platform is in the fully raised position and is completely clear of the stow latches.
3. Raise platform fold latch and push UNFOLD switch to the left at the same time.
4. After platform bar is clear of fold latch, the fold latch can be released. Continue to push UNFOLD switch until platform is completely unfolded.

LOADING AND UNLOADING

5. Raise or lower the fully open platform to the desired level for loading or unloading.

DOCK LOADING

Note: Not all TDR liftgates are capable of dock loading. See page 3.

6. Insert key into switch and turn clockwise to ON position. The key may then be removed.
7. Push RAISE switch until the platform is in the fully raised position and is completely clear of the stow latches.
8. Lift and rotate stow latches until they are clear of platform. The platform can now be lowered in the closed position.

9. Lower platform with fold latch engaged until the desired height is reached for dock loading.
10. After dock loading is complete, push RAISE switch until platform is in the fully raised position.
11. Rotate and lower stow latches back to their locked position.
12. Lower platform into the stow latches.

CLOSING OF PLATFORM

13. Raise open platform completely to bed height.
14. Push FOLD switch to the right until platform folds completely. Fold latch will engage automatically.
15. Lower closed platform into the stow latches.
16. Turn key switch counterclockwise to the OFF position and remove key before transit.

MAINTENANCE GUIDE

The following inspection and maintenance operations should be performed at the recommended intervals or anytime the liftgate shows signs of abuse, and improper or abnormal operation.

MONTHLY INSPECTION AND MAINTENANCE

Operate the liftgate throughout its entire operational cycle and check the following:

1. Check that there are no unusual noises or vibrations.
2. Check that the platform is level when raised to bed height. If adjustments are necessary, this can be done by adjusting the U-bolt thru the platform block.
3. Check for apparent damage to the liftgate such as bent or distorted members and any cracked welds which may have resulted from overloading or abuse. Repair as necessary.
4. Check for excessive wear in the following area:
 - A. Roller assemblies on slider
 - B. Platform hinge pins and platform pivot pins
 - C. Platform support chains
 - D. UHMW wear pads on slider
5. Check that the platform pivot pins are in place and retained by their proper retainers.
6. Check that all protective covers and guards are in place and properly secured.
7. Check for leaks in these areas:
 - A. Lift cylinders - replace or repack as necessary
 - B. Fold cylinders - replace or repack as necessary
 - C. Hydraulic hose - replace if it shows signs of wear or cracking
 - D. Hydraulic fittings - tighten or replace as may be required to stop leakage
8. Check the oil level in the pump reservoir located in the pump enclosure. With the platform open and at ground level, the oil should be within .50" from the top of the reservoir. See the following chart.

HYDRAULIC FLUID CHART	
Temperature Range	Acceptable Fluids
-75 to 165°F	Exxon Unavis J-26
-20 to 130°F	Dexron III Exxon Superflo ATF Shell Donax (R) TG
-50 to 80°F	Shell Aero Fluid 4 Mobil Aero HFA Exxon Unavis J-13 MIL H-5606

9. Check that all wiring and battery cable connections are tight and free of corrosion.
10. Lubrication of the TDR series liftgates should be as follows for all conditions:

Area of Liftgate	Type of Lubrication	Frequency
Slider Rails	SAE 10 to 20 oil	100
Slider Rollers	Grease*	50
Chain Anchor Links	SAE 10 to 20 oil	100
Platform Hinges	Grease*	100
Pump Oil Change	See above chart	Yearly
Fold Cyl. Adj. Block	Grease*	100

*See the parts list for location of the grease zerks.

For -40 to 120 F use #0 Grade grease.

For -20 to 200 F use #1 Grade grease.

11. Check the pump relief pressure and also the motor amperage at this pressure. These values should be as follows:

Model	Max Amp Draw	Relief Pressure (psi)
TDR44	190	1850
TDR55	220	2300
TDR66	255	2750

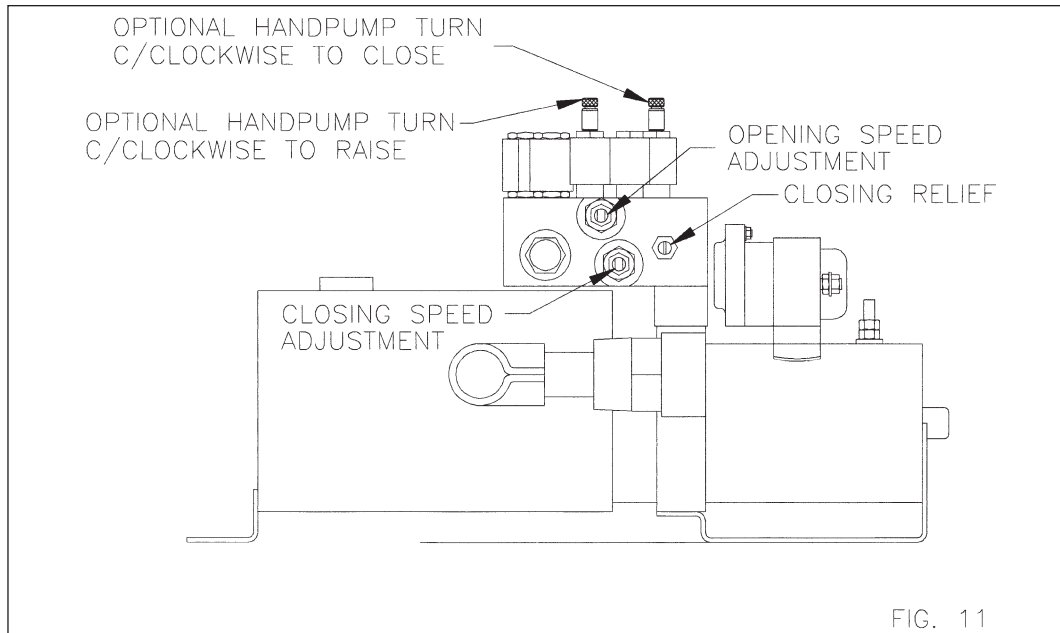
12. The TDR series liftgate is equipped with a pressure sensitive tapeswitch. This is to prevent cargo from being damaged in the pinch point between the platform and the rear of the truck. If the switch is activated the platform will stop raising. When this occurs push the switch to lower and remove the obstruction. If there are other problems with the raise mode have an authorized distributor correct the problem.

SEMI-ANNUAL INSPECTION

1. Perform the procedures outlined in the "Monthly Inspection and Maintenance."
2. Inspect pump motor by:
 - A. Disconnecting battery cable
 - B. Remove motor end cover
 - C. Examine the armature brushes for wear. (Brushes should be replaced if they are less than .12" long.)
 - D. Clean out all residue from inside the motor housing.
 - E. Apply several drops on light weight machine oil to the armature shaft bearing in the motor end.
3. If the hydraulic oil in the reservoir is contaminated:
 - A. Unfold platform and lower platform to the ground.
 - B. Drain the oil from the system and flush the entire system.
 - C. Remove the reservoir from the pump and clean the suction line filter. Also clean out any contaminants from the reservoir. Remount the reservoir when completed.
 - D. Replace the oil as outlined in Section 8 under Monthly Maintenance and Inspection.

OPENING AND CLOSING SPEED ADJUSTMENT

1. The opening and closing speed of the platform can be adjusted with the flow controls. To increase the speed screw the adjustment valve counterclockwise, and to decrease, screw the adjustment valve clockwise. See the following figure.



PARTS ORDERING PROCEDURE

When ordering parts, please include all the information asked for below. If this information is not available, a complete written description or sketch of the required part will help Thieman identify and deliver the needed part to you.

THE FOLLOWING INFORMATION MUST BE INCLUDED:

1. Serial Number – Thieman TDR liftgate serial numbers can be found on the tag located on the outside of the curb side rail at the bottom.
2. Model number and capacity.
3. Platform size.
4. Part number.
5. Description.
6. Quantity required.

DIRECT YOUR REQUEST TO:

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FAX: 419-586-9724

IMPORTANT

IT IS REQUIRED THAT EVERY VEHICLE THAT HAS A THIEMAN LIFTGATE HAS LEGIBLE WARNING AND OPERATION DECALS CLEARLY POSTED ON THE VEHICLE AT ALL TIMES AS A GUIDE FOR PROPER OPERATION AND MAINTENANCE.

ADDITIONAL WARNING DECALS, OPERATION DECALS AND OWNER'S MANUALS CAN BE OBTAINED FROM THIEMAN TAILGATES, INC.