Owner's Manual & Safety Instructions

Save This Manual Keep this manual for the safety warnings and precautions, assembly, operating, inspection, maintenance and cleaning procedures. Write the product's serial number in the back of the manual near the assembly diagram (or month and year of purchase if product has no number). Keep this manual and the receipt in a safe and dry place for future reference. 23d

HAULMASTER®

2.5 TON TRAILER/RV SCISSOR STABILIZER



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When unpacking, make sure that the product is intact and undamaged. If any parts are missing or broken, please call 1-888-866-5797 as soon as possible.

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No portion of this manual or any artwork contained herein may be reproduced in any shape or form without the express written consent of Harbor Freight Tools.
Diagrams within this manual may not be drawn proportionally. Due to continuing improvements, actual product may differ slightly from the product described herein. Tools required for assembly and service may not be included.

⚠WARNING

Read this material before using this product. Failure to do so can result in serious injury. SAVE THIS MANUAL.

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WARNING SYMBOLS AND DEFINITIONS	
⚠	This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.
⚠ DANGER	Indicates a hazardous situation which, if not avoided, will result in death or serious injury.
⚠ WARNING	Indicates a hazardous situation which, if not avoided, could result in death or serious injury.
⚠ CAUTION	Indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.
NOTICE CAUTION	Addresses practices not related to personal injury.

IMPORTANT SAFETY INSTRUCTIONS

⚠ WARNING **READ AND UNDERSTAND ALL INSTRUCTIONS! Failure to follow all instructions listed below may result in serious injury.**

1. Study, understand, and follow all instructions before operating this device.
2. Do not exceed rated capacity.
3. Use only on a hard, level surface capable of supporting the load.
4. Failure to heed these markings may result in personal injury and/or property damage.
5. Lift only on areas of the vehicle as specified by the vehicle manufacturer.
6. No alterations shall be made to this product.
7. Only attachments and/or adapters supplied by the manufacturer shall be used.
8. **DO NOT USE THIS LEVELING STABILIZER FOR LIFTING.** Do not use to change tires.
9. **Keep space around Stabilizer as uncluttered as possible during use.** Clutter can hinder smooth operation and possibly cause accidents and/or serious personal injury. Keep area well lit.
10. Keep out from under trailer or RV. Keep hands away from scissor mechanism.
11. Wear ANSI-approved safety goggles and heavy duty work gloves during use.
12. Install this Leveling Stabilizer in accordance with DMV regulations.
13. Keep children away. Children must never be allowed in the Leveling Stabilizer area. Do not let them handle the Stabilizer at any time.
14. Use the right tool for the job. There are certain applications for which this Leveling Stabilizer was designed. It will do the job better and more safely at the rate for which it was intended. Do not modify this Stabilizer and do not use this Stabilizer for a purpose for which it was not intended.
15. Dress properly. Do not wear loose clothing or jewelry as they can be caught in moving parts. Wear restrictive hair covering to contain long hair.
16. Do not overreach. Keep proper footing and balance at all times. Do not reach over or across a Leveling Stabilizer under a load.
17. **Maintain tools with care.** Keep tools clean for better and safer performance. Follow instructions for lubricating and changing accessories. The handle must be kept clean, dry, and free from oil and grease at all times.

18. Check for damaged parts. Before using any tool, any part that appears damaged should be carefully checked to determine that it will operate properly and perform its intended function. Check for alignment and binding of moving parts; any broken parts or mounting fixtures; and any other condition that may affect proper operation. Any part that is damaged should be properly repaired or replaced by a qualified technician.
19. Replacement parts and accessories. When servicing, use only identical replacement parts. Use of any other parts will void the warranty. Only use accessories intended for use with this tool. Approved accessories are available from Harbor Freight Tools.
20. Stay alert. Watch what you are doing, use common sense. Do not operate any tool when you are tired.
21. Do not operate tool if under the influence of alcohol or drugs. Read warning labels if taking prescription medicine to determine if your judgment or reflexes are impaired while taking drugs. If there is any doubt, do not operate the tool.
22. **Stand clear of the Leveling Stabilizer when attempting to level any trailer or RV.**
23. **Never exceed the Stabilizer's capacity of 5,000 lb.** Check the trailer or RV's manual to determine the actual gross weight before attempting to level it. **This Stabilizer's weight capacity is 5,000 lb. only between 13-3/4" and 23-1/2"; the weight capacity drastically reduces as the height drops below this level. Do not apply a load to this Stabilizer below 13-3/4" in height.**
24. Never stand on the Stabilizer and never have people or pets in the trailer or RV you are attempting to level.
25. Place the Leveling Stabilizer on a flat, level surface. Only use this Stabilizer on a stable, clean, dry surface that is capable of sustaining the weight of the Stabilizer and the load it is stabilizing.
26. Stabilize the load. Ensure that the load remains stable at all times. Do not move the load while it is on the Leveling Stabilizer.
27. Block all of the wheels when leveling an RV or trailer.
28. Do not use this Leveling Stabilizer for aircraft purposes.
29. **Some RV sub-frames are not capable of handling any additional forces beyond its intended design strength to support the cabin weight. Contact your RV manufacturer for the sub-frame strength information before use of this Stabilizer**.
30. The warnings, cautions, and instructions discussed in this instruction manual cannot cover all possible conditions and situations that may occur. **It must be understood by the operator that common sense and caution are factors which cannot be built into this product, but must be supplied by the operator.**

SAVE THESE INSTRUCTIONS.

Specifications

Stabilizer Construction	10 Gauge Sheet Steel Plate
Crank Handle Construction and Dimensions	Steel Rod Rubber Grip and Attached Socket 25-3/4" L X 15/32" Diameter (5" Long Rubber Handle and Grip)
Stabilizer Capacity	5000 lb. maximum capacity with height not less than 13-3/4"
Height Range	4-5/8" Minimum Height to 23-1/2" Maximum Height
Overall Dimensions	26-1/4" Total Length X 4-5/8" High X 6-3/4" Wide (Collapsed for Storage)
Stabilizer Mounting	Bolt-On (see directions on page 5 of this manual) Weld-On (see directions on page 5 of this manual) Unmounted use is NOT recommended
Weight	14.35 lb. (Stabilizer Only)

Setup - Before Use:

Note: For further information on parts and assembly break-down, see the diagram on page 7 of this manual.

Installation

WARNING! TO PREVENT SERIOUS INJURY: Do not use this Leveling Stabilizer while unmounted.

WARNING! Before drilling holes, check for any chassis components which may be inside the frame. Look for electrical lines and wires, gas tank, gas lines, water and holding tanks, generator fuel lines and water heater lines. Make sure area is clear of these components before drilling.

1. Park RV or Trailer on level ground. Prevent the wheels from rolling by applying emergency brake and wheel blocks (not included).
2. Check the following before proceeding with the installation:
   a. Attach Stabilizer to the frame of the RV or Trailer using two c-clamps (not included) or two vise grips (not included). Close the Stabilizer using the Handle Wrench (16) to check the frame location. Make sure the Stabilizer will clear any chassis components nearby.
   b. Open the Stabilizer enough to touch the ground. Recheck the location on the frame and adjust if needed.
   c. Once in place, apply enough pressure between the ground and the Stabilizer to ensure that it will not move during the rest of the installation process. Remove the c-clamps (not included) or vise grips (not included).
3. For Bolt-On Installation:
   a. Hold the Stabilizer against the frame and using the Mounting Brackets (9) as a template, mark the locations of the 8 mounting holes on the RV or Trailer frame. Remove the Stabilizer.
   b. Use a center punch (not included) and hammer (not included) to mark the center of each hole.
   c. Use a drill (not included) to make a pilot hole 1/8". Then use a 5/16" drill bit (not included) to complete each hole. Use eight 3/8" tapping screws (not included) with eight lock washers (not included) to attach the Stabilizer to the frame.
4. For Weld-On Installation:
   a. Hold the Stabilizer against the frame and using the Mounting Brackets (9) as a template, mark the locations of the 8 mounting holes on the RV or Trailer frame.
   b. Weld at least four 1″ welds on the Stabilizer Mounting Brackets (9) when attaching to the frame.

Trailers, Travel Trailers and 5th Wheels

1. Park on level ground.
2. Level trailer (travel trailer, 5th wheel) front and back with small carpenter's level (not included), or round bubble level (not included). Place leveling blocks (not included) in front of one tire on trailer. Slowly pull forward to drive the trailer up onto the blocks. When the trailer is level, stop and block all tires to keep from rolling forward or backward.
3. Using Handle Wrench (16) lower the Stabilizer on the lowest side first to get level. Use one Stabilizer on each side for best results.
4. After Stabilizer makes firm contact with ground, turn Handle Wrench (16) twice to insure Stabilizer will not loosen from trailer during use.

Note: When RV or trailer will not be moved for several days, periodically check Stabilizer to be sure they have not worked loose.

Motor Homes

1. Park on level ground and level motor home front and back (see step 2 in previous section).
2. Using Handle (16) lower Stabilizer on opposite sides for stabilization (see steps 3 and 4 in previous section).

Note: If motor home comes with factory installed hydraulic levelers, the Leveling Stabilizer can be used to provide additional stabilization. Follow the directions for installation found in this manual on pages 4 and 5.

Maintenance

Procedures not specifically explained in this manual must be performed only by a qualified technician.

⚠WARNING

TO PREVENT SERIOUS INJURY FROM TOOL FAILURE: Do not use damaged equipment. If abnormal noise or vibration occurs, have the problem corrected before further use.

1. Periodically clean Stabilizer of any dirt, grease, or debris.
2. **Before each use**, inspect the general condition of the Stabilizer. Check for broken, cracked, or bent parts, loose or missing parts, and any condition that may affect the proper operation of the product. Do not use damaged equipment. Discard Stabilizer if damaged or deformed.
3. Periodically lubricate Screw Rod (4) Threads with high quality light weight oil (not included).

PLEASE READ THE FOLLOWING CAREFULLY

THE MANUFACTURER AND/OR DISTRIBUTOR HAS PROVIDED THE PARTS DIAGRAM IN THIS MANUAL AS A REFERENCE TOOL ONLY. NEITHER THE MANUFACTURER NOR DISTRIBUTOR MAKES ANY REPRESENTATION OR WARRANTY OF ANY KIND TO THE BUYER THAT HE OR SHE IS QUALIFIED TO MAKE ANY REPAIRS TO THE PRODUCT OR THAT HE OR SHE IS QUALIFIED TO REPLACE ANY PARTS OF THE PRODUCT. IN FACT, THE MANUFACTURER AND/OR DISTRIBUTOR EXPRESSLY STATES THAT ALL REPAIRS AND PARTS REPLACEMENTS SHOULD BE UNDERTAKEN BY CERTIFIED AND LICENSED TECHNICIANS AND NOT BY THE BUYER. THE BUYER ASSUMES ALL RISK AND LIABILITY ARISING OUT OF HIS OR HER REPAIRS TO THE ORIGINAL PRODUCT OR REPLACEMENT PARTS THERETO, OR ARISING OUT OF HIS OR HER INSTALLATION OF REPLACEMENT PARTS THERETO.

Record Product's Serial Number Here:

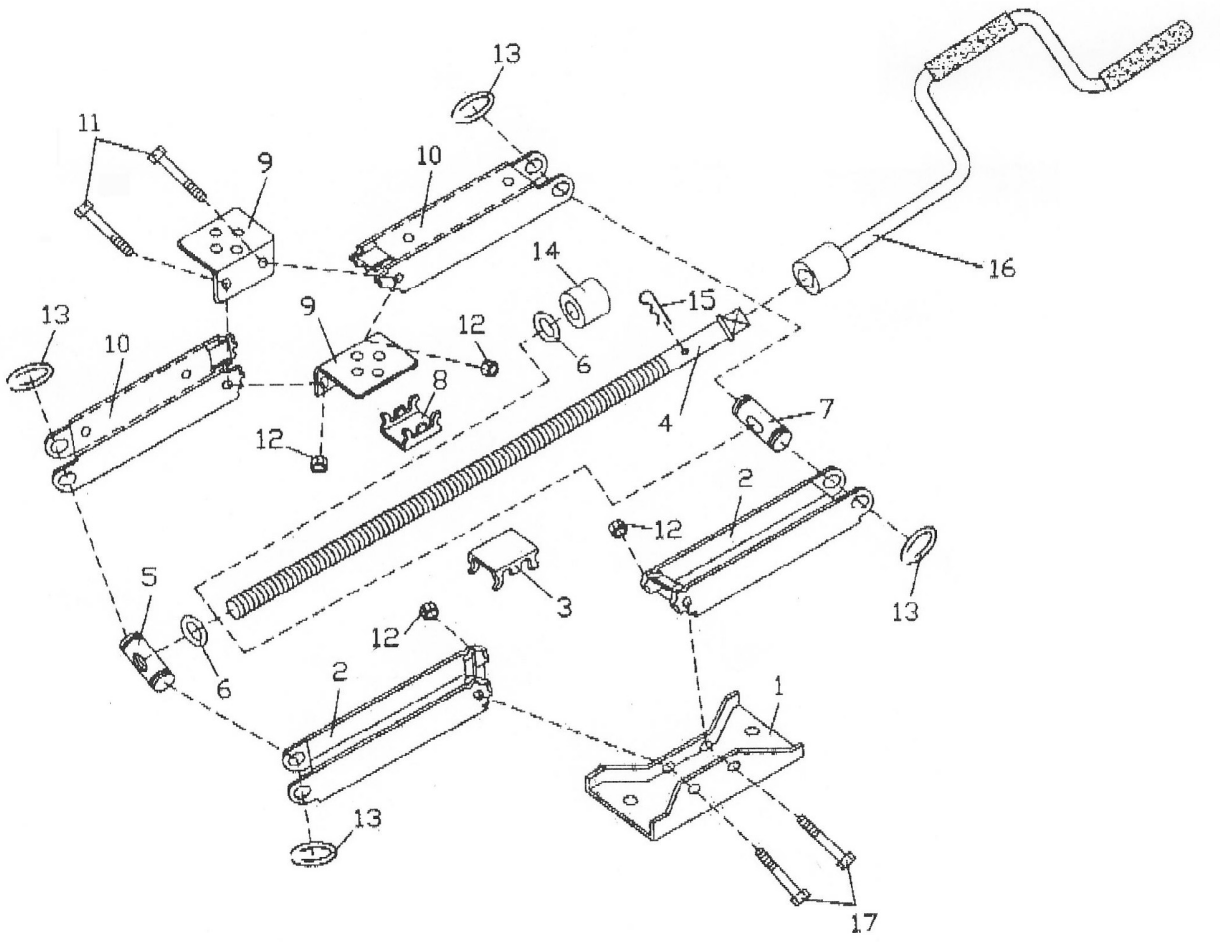
Note: If product has no serial number, record month and year of purchase instead.

Note: Some parts are listed and shown for illustration purposes only, and are not available individually as replacement parts. Specify UPC 193175459541 when ordering parts.

Parts List And Diagram

Part	Description	Qty
1	Base	1
2	Lower Stabilizing Arm	2
3	Lower Fixing Frame	1
4	Screw Rod	1
5	Axis with Thread	1
6	Flat Washer 16	2
7	Axis w/out Thread	1
8	Upper Fixing Frame	1
9	Mounting Brackets	2

Part	Description	Qty
10	Upper Stabilizing Arm	2
11	Hex Bolt M10 X 70	2
12	Lock Nut M10	4
13	Retaining Ring	4
14	Bearing	1
15	R-Clip	1
16	Handle Wrench	1
17	Hex Bolt M10 X 80	2



Limited 90 Day Warranty

Harbor Freight Tools Co. makes every effort to assure that its products meet high quality and durability standards, and warrants to the original purchaser that this product is free from defects in materials and workmanship for the period of 90 days from the date of purchase. This warranty does not apply to damage due directly or indirectly, to misuse, abuse, negligence or accidents, repairs or alterations outside our facilities, criminal activity, improper installation, normal wear and tear, or to lack of maintenance. We shall in no event be liable for death, injuries to persons or property, or for incidental, contingent, special or consequential damages arising from the use of our product. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation of exclusion may not apply to you. THIS WARRANTY IS EXPRESSLY IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS.

To take advantage of this warranty, the product or part must be returned to us with transportation charges prepaid. Proof of purchase date and an explanation of the complaint must accompany the merchandise. If our inspection verifies the defect, we will either repair or replace the product at our election or we may elect to refund the purchase price if we cannot readily and quickly provide you with a replacement. We will return repaired products at our expense, but if we determine there is no defect, or that the defect resulted from causes not within the scope of our warranty, then you must bear the cost of returning the product.

This warranty gives you specific legal rights and you may also have other rights which vary from state to state.

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