



Model 101-H Operating Table

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*Read this Manual
and Retain for
Future Reference*

Ferno Technical Support

Customer service and product support are important aspects of each Ferno product. Please have the product serial number available when calling, and include it in all written communications. For technical support questions:

Telephone (Toll-free)	1.800.733.3766 ext. 1010
Telephone	1.937.382.1451 ext. 1010
Email	quality.products@ferno.com

Ferno Customer Relations

For ordering assistance or general information:

CANADA AND THE U.S.A.

Telephone (Toll-free)	1.877.733.0911
Telephone	1.937.382.1451
Fax (Toll-free)	1.888.388.1349
Fax	1.937.382.1191
Internet	www.ferno.com

ALL OTHER LOCATIONS

For assistance or information, please contact your Ferno distributor. If you do not have a Ferno distributor, please contact Ferno Customer Relations:

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70 Weil Way

Wilmington, Ohio 45177-9371, U.S.A.

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Serial Number _____

Location: On cover holder for 101-H Base



USERS' MANUAL
To request additional free users' manuals, contact Ferno Customer Relations, your Ferno distributor, or visit www.ferno.com.



Disclaimer

This manual contains general instructions for the use, operation and care of this product. The instructions are not all-inclusive. Safe and proper use of this product is solely at the discretion of the user. Safety information is included as a service to the user. All other safety measures taken by the user should be within and under consideration of applicable regulations. It is recommended that training on the proper use of this product be provided before using this product in an actual situation.

Retain this manual for future reference. Include it with the product in the event of transfer to new users. Additional free copies are available upon request from Customer Relations.

Proprietary Notice

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Limited Warranty Statement

The products sold by Ferno are covered by a limited warranty, which is printed on all Ferno invoices. The complete terms and conditions of the limited warranty, and the limitations of liability and disclaimers, are also available upon request by calling Ferno at 1.800.733.3766 or 1.937.382.1451.


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1 - SAFETY INFORMATION

1.1 Warning

Warning notices indicate a potentially hazardous situation which, if not avoided, could result in injury or death.

 WARNING
<p>Untrained operators can cause injury or be injured. Permit only trained personnel to operate the table.</p> <p>Improper use of the table can cause injury. Use the table only for the purpose described in this manual.</p> <p>Improper operation can cause injury. Operate the table only as described in this manual.</p> <p>Improper maintenance can cause injury. Maintain the table only as described in this manual.</p> <p>Improper parts and service can cause injury. Use only Ferno parts and Ferno-approved service on the table.</p> <p>Modifying the table can cause injury and damage. Use the table only as designed by Ferno.</p>

1.2 Important

Important notices emphasize important usage or maintenance information.

<p>Important</p>

1.3 Bloodborne Disease Notice

To reduce the risk of exposure to bloodborne diseases such as HIV-1 and hepatitis when using the table, follow the disinfecting and cleaning instructions in this manual.

1.4 Symbol Glossary

The symbols defined below are used on the table and/or in this users' manual. Ferno uses symbols recognized by the International Standards Organization (ISO), American National Standards Institute (ANSI) and the mortuary services industry.



General Warning of Potential Injury



Read the Users' Manual



Load Limit



Product meets European Union Standards



Unlocked



Locked

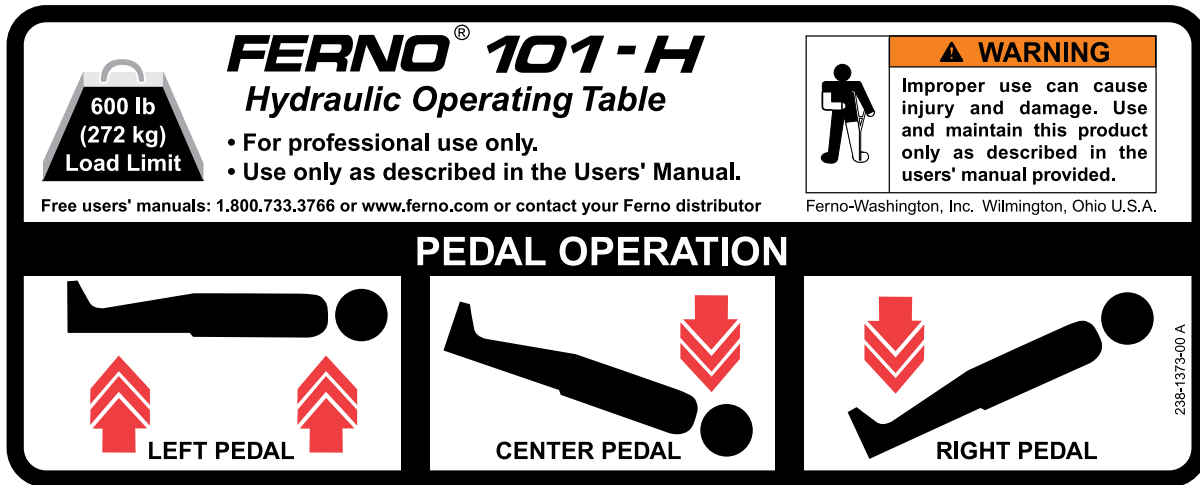


Do Not Lubricate

1.5 Safety and Instruction Label

The safety and instruction label places important information from the users' manual on the table. Read and follow label instructions. Replace the label immediately if it becomes damaged or worn. New labels are available from EMSAR, page 14) or from your distributor.

The label below is affixed to the table.



2 - OPERATOR SKILLS AND TRAINING

2.1 Skills

Operators using the table need:

- a working knowledge of mortuary-service procedures.
- the ability to carry out mortuary-service procedures.

2.2 Training

Operator trainees need to:

- read and understand this manual.
- be trained on the use of the table.
- practice with the table before using it in service.
- record their training information. A sample training record sheet is provided on page 16.



3 - ABOUT THE TABLE

3.1 Description

The Ferno® Model 101-H Hydraulic Operating Table (referred to as the “table” in this manual) is designed to provide an adjustable surface for autopsy, embalming, dressing, and transfer.

The table is for professional use only.

The table base is equipped with two hydraulic jacks operated by foot pedals to control the height of the table top.

TABLE-TOP FEATURES

- Type 304 stainless-steel surface
- Extra-deep trough around table-top perimeter
- Drain

TABLE-BASE FEATURES

- Foot pedals for easy adjustment of table-top height and tilt
- Wheel-locking system that simultaneously controls all four wheels with one foot pedal

3.2 General Specifications

Overall Length	80 in./2032 mm
Width	30 in./762 mm
Height	
Minimum	28.5 in./724 mm
Maximum	40.5 in./1029 mm
Wheels	8 in./203 mm
Wheel Base	24.5 x 48.5 in/ 622 x 1232 mm
Table Surface	Type 304 Stainless Steel, #3 Finish
Weight	
Overall	158 lb/72 kg
Table Top	59 lb/27 kg
Table Base	90 lb/41 kg
Table Base Cover	9 lb/4 kg
Load Limit	600 lb/272 kg


Metric conversions are calculated before rounding the Imperial measurements. For more information, contact Ferno Customer Relations (page 2) or your Ferno distributor.

Ferno reserves the right to change specifications without notice.

 **WARNING**

Improper use of the table can cause injury. Use the table only for the purpose described in this manual.





600 lb
272 kg


Load Limit

Inspect the table if the load limit has been exceeded (See *Inspecting the Table*, page 13).

3.3 Components



USERS' MANUALS



To request additional free users' manuals, please contact Ferno Customer Relations (page 2), your Ferno distributor, or visit www.ferno.com.

4 - ASSEMBLING THE TABLE

4.1 General Information

The table top and the table base (with cover) are shipped in separate cartons. To assemble the table, follow the instructions on this page and page 9.

Note: Two people will be needed to lift the table top onto the table base during assembly.

4.2 Hardware Provided

The hardware used to attach the table top to the base (Figure 1) is shipped in a bag attached to one of the mounting brackets on the underside of the table top.

3/8" Hex Head Cap Screw	2 ea.
3/8" Flat Washer	2 ea.
3/8" Split Lock Washer 303 SS	2 ea.
1/4" Socket Head Cap Screw	2 ea.
1/4" Flat Washer	2 ea.

4.3 Tools Required

3/16" Allen Wrench	1 ea.
9/16" Wrench	1 ea.
Rubber Mallet	1 ea.
Tape Measure	1 ea.

4.4 Preparing the Table Base

- To lock the wheels, step on the end of the wheel-lock pedal nearest the foot pedals. (See *Using the Wheel Locks*, page 10.)
- Pump the left pedal (Figure 2) to raise both jacks to their full height. **Do not pull up on the jacks to raise them.** Stop pumping when the jacks stop moving upward.

Note: Raising the jacks to their full height will provide easier access to the underside of the table top later in the assembly procedure.

Important

Pulling up on the jacks to raise them can force air into the hydraulic system. Always use **ONLY** the left pedal to raise the jacks. If one or both ends of the table will not raise to the maximum height, see *Troubleshooting*, page 14.



Figure 1 - Hardware Supplied

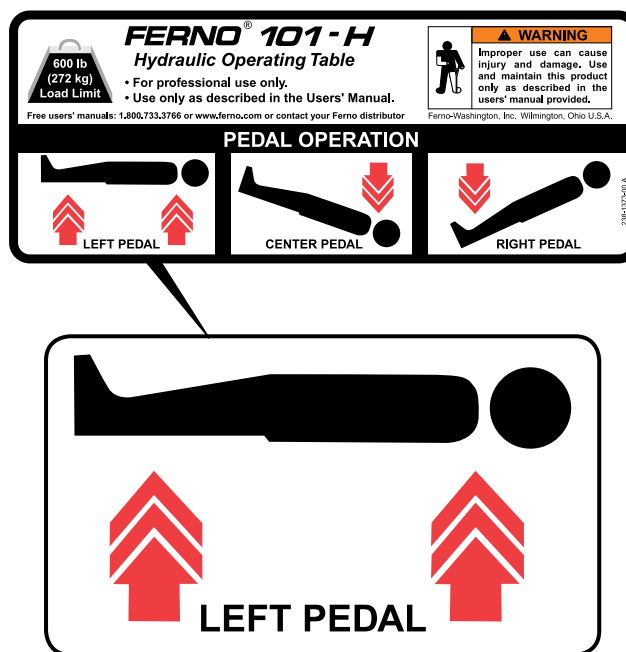


Figure 2 - Raising the Table Top

4.5 Assembling the Table

1. A hex-head screw is attached to each jack for shipping. Remove the screws from the jacks and discard. New screws are provided in the hardware kit for the installation (See *Hardware Provided*, page 8).
2. Measure the distance between the outside edges of the jacks (Figure 3).
3. Measure the distance between the outside edges of the holes in the mounting brackets on the underside of the table top (Figure 4).
4. If the distances in Step 2 and Step 3 are not the same, use the rubber mallet to tap the sliding mounting bracket toward the operator end **or** drain end of the table top. The bracket is properly adjusted when the distance between the outside edges of the holes in the mounting brackets equals the distance between the outside edges of the jacks.
5. Orient the table top with the drain opposite the table-base foot pedals. Using two or more people, lift the table top onto the jacks, making sure the jacks are firmly seated into the mounting bracket holes. Adjust the position of the sliding mounting bracket if necessary.

Note: If the table top does not fit on the jacks properly after adjusting the mounting bracket position, the spacer (Figure 4) may be out of alignment. Use the rubber mallet to adjust the spacer position a little toward the operator end or drain end of the table, and then readjust the sliding mounting bracket.

6. Slide a 3/8" split lock washer and then a 3/8" flat washer onto a 3/8" hex head cap screw (Figure 1, page 8). Hand turn the screw into the hole on the top of the mounting bracket (Figure 5) and tighten with the 9/16" wrench.
7. Repeat Step 5 at the opposite end of the table.
8. Place a 1/4" flat washer onto a 1/4" socket head cap screw (Figure 1, page 8).
9. Align the hole in the metal tab of the jack cover with the hole in the mounting bracket (Figure 5). Place the screw through the holes and tighten with the 3/16" Allen wrench.
10. Repeat Step 8 at the opposite end of the table.
11. Test the table by following instructions in *Inspecting the Table*, page 13.

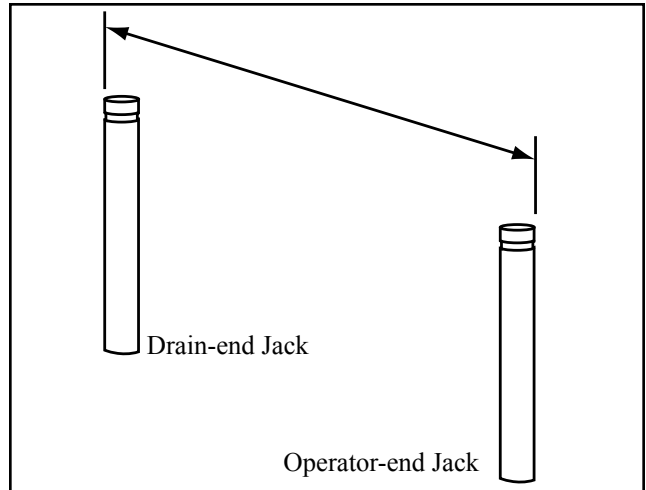


Figure 3 - Measuring Between the Jacks (Jack Covers Not Shown)

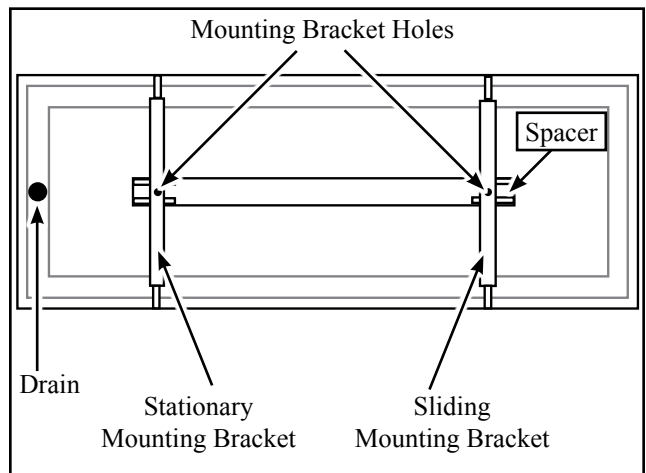


Figure 4 - Bottom View of Table Top

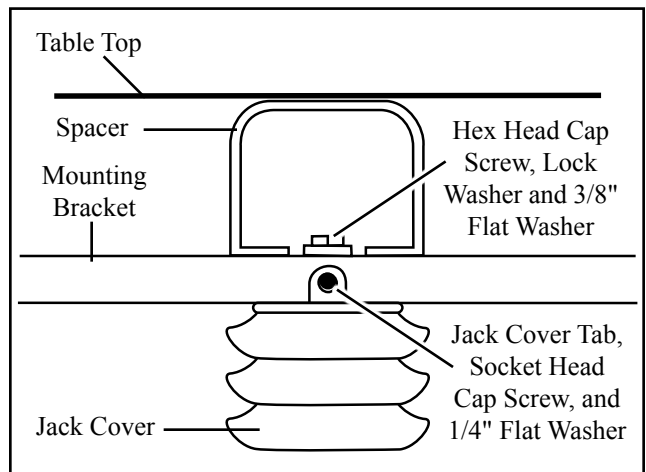


Figure 5 - Attaching the Table Top To the Base

5 - USING THE TABLE

5.1 Before Placing the Table in Service

- Personnel who will work with the table need to read this manual.
- Assemble the table following instructions on pages 8 and 9.
- Confirm that the table operates properly. See *Inspecting the Table*, page 13.

5.2 General Guideline for Use

Follow standard mortuary-service procedures when working with the table.

5.3 Positioning a Body On the Table

In most cases, the body will be positioned with the head at the operator end of the table and the feet at the drain end of the table. Follow your local mortuary protocols.

5.4 Using the Wheel-Lock Pedal

The wheel lock for one or all four wheels is controlled by the wheel-lock pedal, located above the right wheel on the operator end of the table.

- **TO LOCK ALL FOUR WHEELS:** Push the operator-end of the wheel-lock pedal down (the end nearest the control pedals, Figure 6). The wheels will not roll or swivel.
- **TO UNLOCK THE WHEELS:** Position the wheel-lock pedal in the intermediate position (Figure 7). All four wheels will roll and swivel.

Note: If a clicking sound occurs while moving the table, the wheel lock is still partially engaged. If this occurs, re-engage the wheel lock and then unlock the wheels again before moving the table.

- **FOR STRAIGHT-LINE ROLLING:** Push the drain-end of the wheel-lock pedal down (Figure 8). One wheel at the drain end of the table will remain fixed in-line with the length of the table to assist with straight-line rolling.

WARNING

Improper operation can cause injury. Operate the table only as described in this manual.

**Figure 6 -
Lock Engaged**
(Wheels Do Not
Roll or Swivel)



← Operator End of Table

**Figure 7 -
Intermediate
Position**
(See Note at Left)



← Operator End of Table

**Figure 8 -
Straight-Line
Rolling**
(One Wheel on End
Opposite Wheel
Lock Will Not Swivel
to Aid Straight-Line
Rolling)



← Operator End of Table

Important

Tables before Serial Number 10C-051944 function differently: the wheels are unlocked when the drain-end of the wheel-lock pedal is pushed down AND when the wheel-lock pedal is in the intermediate position.

5.5 Using the Foot Pedals

A set of three foot pedals operates the hydraulic system that controls the height and angle of the table top. The label in Figure 9 is located on the table base above the pedals and provides important reminders about operating the table.

Note: *It is important that table operators read this manual to gain a full understanding of pedal operation.*

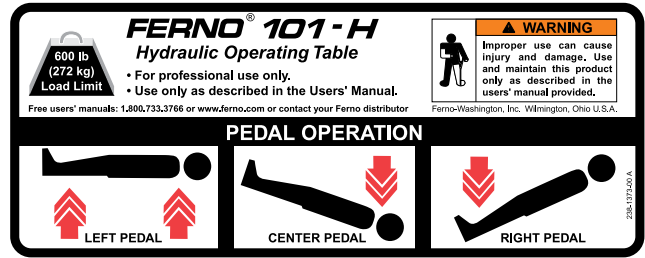


Figure 9 - Pedal Operation Label

Important

The instructional label does NOT contain complete instructions for using the table. The label is NOT a substitute for reading this manual and practicing with the table before using it in service.

5.6 Raising and Lowering The Table Top

The height of the table top is controlled with foot pedals that raise and lower the jacks.

RAISING THE TABLE TOP

To raise the table top, pump the left foot pedal (Figure 10).

Do not pull up on the table top with your hands. This can force air into the hydraulic system. (See *Troubleshooting*, page 14).

Do not continue pumping the left pedal after the table top has stopped moving upward. This can cause the hydraulics to stick. (See *Troubleshooting*, page 14.)



Figure 10 - Raising the Table Top

LOWERING THE TABLE TOP

To lower the table top, push down on the center and right foot pedals at the same time (Figure 11).

Important

Do not try to raise the table top by pulling it up with your hands as this can force air into the hydraulic system. Always raise the table top by pumping the left foot pedal.

Important

Do not try to raise the table top beyond its maximum height as this can cause the hydraulics to stick. Stop pumping the left pedal when the table top stops moving upward.



Figure 11 - Lowering the Table Top

5.7 Tilting the Table Top

To tilt the table top:

1. Raise the table top to the desired height by pumping the left foot pedal (Figure 12-A).
2. Lower the drain end of the table top by pushing the right pedal down a short distance at a time until the table top reaches the desired angle (Figure 12-B).

Important

Tilt the table top only a few degrees at a time as instructed above. Completely depressing the foot pedal in a single motion will tilt the table top steeply, which may cause the body to slide off.

3. When the procedure has been completed, push down on the center pedal to lower the operator end of the table top until it is level with the drain end (Figure 12-C).
4. To raise the table top again, pump the left foot pedal.

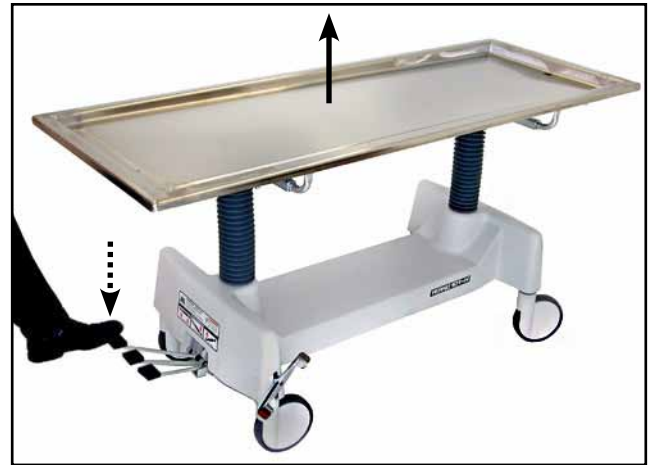


Figure 12-A - Raising the Table Top To Working Height Before Tilting It



Figure 12-B - Tilting the Drain End of the Table Top



Figure 12-C - Returning the Table Top to the Level

6 - MAINTENANCE

6.1 Maintenance Schedule

The table requires regular maintenance. Set up and follow a maintenance schedule. The table at right represents minimum intervals for maintenance.

Keep maintenance records. A sample maintenance record sheet is provided on page 17.

When using maintenance products, follow the manufacturers' directions and read the manufacturers' material safety data sheets. You can purchase a recommended disinfectant from your Ferno distributor or Ferno Customer Relations (page 2).

6.2 Disinfecting and Cleaning the Table Top

Disinfecting: Wipe all surfaces with disinfectant. Follow the disinfectant manufacturer's instructions for application method and contact time. Ferno recommends you inspect the table top for damage as you disinfect it.

Cleaning: Hand clean all surfaces of the stainless steel table top with warm water and a mild detergent. Rinse well with clear water. Dry the table top with a towel or allow it to air-dry.

6.3 Disinfecting and Cleaning the Table-Base Cover

Disinfecting: Disinfect the table-base cover with a disinfectant suitable for use on ABS plastic.

Cleaning: Hand wash the ABS plastic table-base cover with a mild detergent and warm water. Rinse well with clear water and dry with a towel.

6.4 Lubrication

The table is manufactured with parts that do not require lubrication.



Do Not Lubricate

6.5 Inspecting the Table

Have your service's equipment maintenance personnel inspect the table regularly. Follow the checklist at right and operate the table through all its functions as described in this manual.

If inspection shows damage or excessive wear, remove the table from service until repair is made. See *Parts and Service*, page 14 and page 15.

⚠ WARNING

Improper maintenance can cause injury. Maintain the table only as described in this manual.

Minimum Maintenance Intervals	Each Use	As Needed	Each Month
Disinfecting (this page)	•		
Cleaning (this page)		•	
Inspecting (this page)		•	•

Important

- Do not use cleaning solvents on the table-base cover. Cleaning solvents can damage the ABS plastic.
- Do not use disinfectants and cleaners containing bleach, phenolics, or iodines on the table top, base, or base cover. These chemicals can damage the table.
- Do not use abrasive applicators or cleaners on the table top, base, or base cover. Abrasives in any form can damage the table.

Important

Lubricating parts that should not be lubricated allows dirt and foreign particles to collect on those parts, resulting in damage. **Do not** lubricate any part of the table top, wheels, jacks, or base.

INSPECTION CHECKLIST

- Are all components present?
- Are the table top, table base, jacks and wheels free of excessive wear?
- Are all screws, nuts, bolts, rivets, and roll pins securely in place?
- Do all moving parts operate smoothly and properly?
- Do the pedals operate properly?
- Does the table raise, lower, and tilt properly?
- Does the wheel-locking system function properly?
- Does the table roll smoothly?

7 - TROUBLESHOOTING

Problem	Cause	Resolution
One or both ends of the table will not raise to the maximum height.	Air has been forced into the hydraulic reservoir.	Using two people: <ul style="list-style-type: none"> • First Person: Hold down the center and right pedals (as when lowering) • Second Person: Repeatedly press the left pedal (as when raising) • First Person: Allow the table to be raised intermittently by releasing and pressing the center and right pedals again • Continue until the table is at its full height. • Repeat the process if needed.
The hydraulics stick.	The left pedal may have been pumped after the table top was raised to its maximum height.	Apply a small amount of downward hand pressure on the table top to free up the hydraulics.
The table exhibits any other type of hydraulic problem.		Contact Ferno Customer Relations (page 2) or your Ferno distributor.

8 - PARTS AND SERVICE

8.1 U.S.A. and Canada

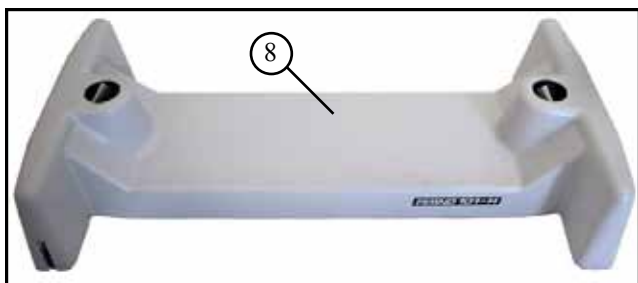
In the United States and Canada, to order parts or for professional table repair, contact EMSAR® - the only agent authorized by Ferno to manage, service, and repair Ferno products.

Telephone (Toll-Free)	1.800.73.EMSAR
Telephone	1.937.383.1052
Fax	+1.937.383.1051
Internet	www.emsar.com

8.2 Worldwide

To order Ferno parts, and for professional table repair, contact your Ferno distributor. Your distributor is the only agent authorized by Ferno to manage, service, and repair Ferno products.

8.3 Parts Diagrams

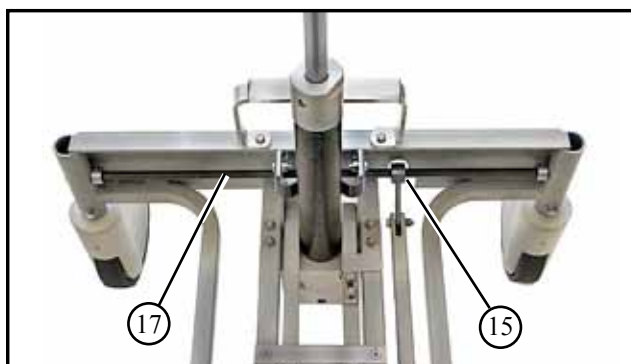


⚠ WARNING

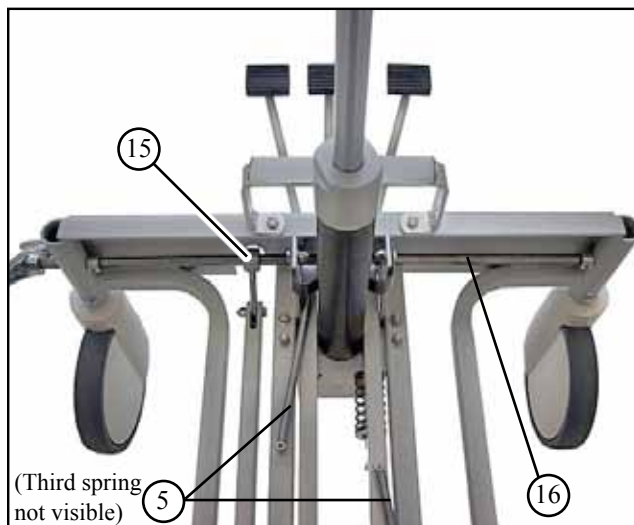
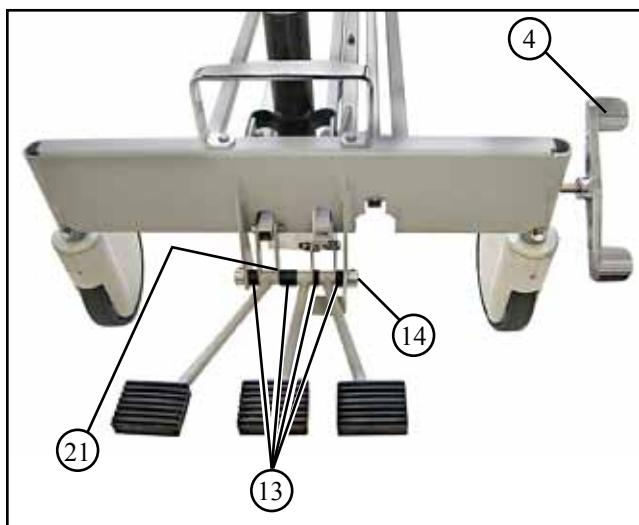
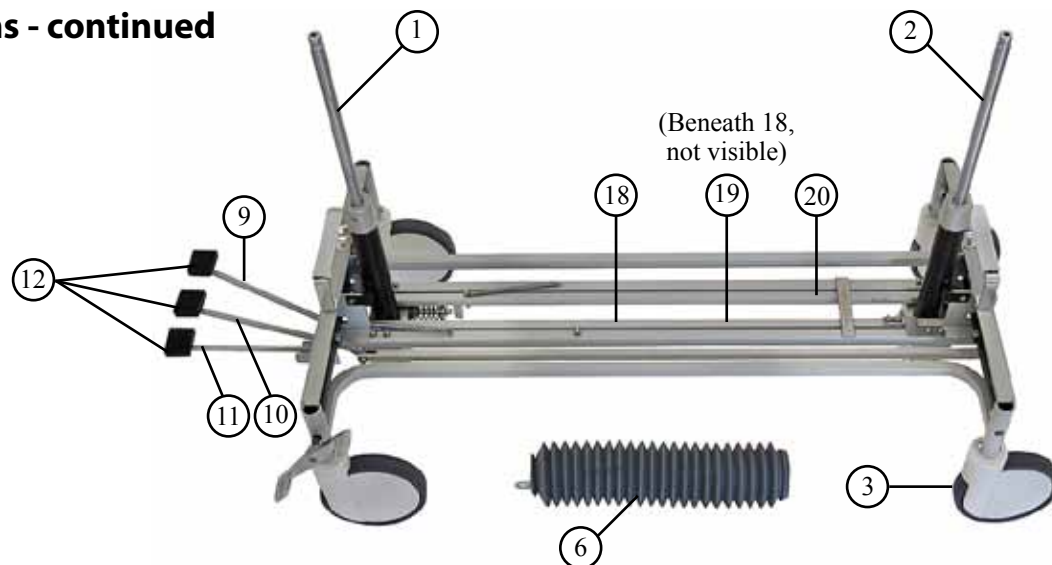
Improper parts and service can cause injury. Use only Ferno parts and Ferno-approved service on the table.

⚠ WARNING

Modifying the table can cause injury and damage. Use the table only as designed by Ferno.



Parts Diagrams - continued



8.4 Parts List

No.	Part	Description	Qty.
1	190-1270	Operator-end jack assy.	1
2	190-1271	Drain-end jack assy.	1
3	190-1272	Swivel caster w/lock (before 10C-051944)	1
	190-2061	Swivel caster w/directional lock <i>(for tables serial number 10C-051944 and higher)</i>	1
4	190-1273	Double-ended brake pedal	1
5	190-1274	Retention springs (set of 3)	1
6	190-1275	Bellows jack cover (each)	1
7	190-1276	(New) 101-H label sheet*	1
8	190-1277	(New) 101-H base cover (photo page 14)	1
9	190-1739	Left pedal weldment w/hardware (E)	1
10	190-1740	Center pedal weldment w/hardware (E)	1
11	190-1741	Right pedal weldment w/hardware (E)	1
12	190-1282	Rubber pedal pad (set of 3)	1
13	190-1742	Delrin spacer (set of 4) (E)	1
14	190-1743	Pedal bolt w/hardware (E)	1

No.	Part	Description	Qty.
15	190-1285	Change-lever casting w/hardware (1 each end, see photos pages 14, 15)	1 only
16	190-1286	Hex rod, long w/stops	1
17	190-1287	Hex rod, short w/stops (photo page 14)	1
18	190-1744	Release bar weldment, upper (E)	1
19	190-1745	Release bar weldment, lower (E)	1
20	190-1746	Release bar weldment, middle (E)	1
21	190-1747	Clevis pin set w/e-clip (E)	1

** Not Shown*
(E) - For parts designated (E), tables before serial number 08C-010631 must be updated by EMSAR in the U.S.A. and Canada (see Section 8.1, page 14). Outside the U.S.A. and Canada, please contact your distributor for the update.
Once the update has been made, these and other parts can be obtained and installed by the end user.

NOTES

NOTES