



**HYDRAULIC SURGI-STRETCHER
578 MODELS
578EYEST (STANDARD WIDTH) &
578EYXST (WIDE WIDTH)
OPERATING MANUAL**

SAVE THIS MANUAL FOR FUTURE USE.

CONTENTS

INTRODUCTION – A WORD FROM GF HEALTH PRODUCTS, INC.....	3
INDICATIONS FOR USE.....	3
SERVICE INFORMATION.....	3
ADVISORY.....	3
1 LIST OF WARNINGS AND CAUTIONS.....	4
SIGNIFICANCE OF SAFETY STATEMENTS.....	4
DANGER / WARNING / CAUTION / NOTICE SUMMARY.....	4
WARNING – CAUTIONS AND PROPER OPERATION.....	5
2 UNCRATING INSTRUCTIONS.....	6
UNPACKING INSTRUCTIONS.....	6
3 OPERATING INSTRUCTIONS.....	7
3.2 FEATURES, WARNINGS AND PROPER OPERATION OPERATING INSTRUCTIONS.....	7
WARNINGS – CAUTIONS AND PROPER OPERATION.....	8
FEATURES.....	8
3.3 BRAKING AND STEERING OPERATION.....	9
3.3.1 APPLYING THE BRAKES.....	9
3.3.2 RELEASING THE BRAKES.....	9
3.3.3 APPLYING THE STEERING LOCK / FIFTH WHEEL.....	9
3.3.4 RELEASING THE STEERING LOCK / FIFTH WHEEL.....	9
3.4 STRETCHER TOP HEIGHT ADJUSTMENT.....	10
3.4.1 HEIGHT ADJUSTMENT.....	10
3.4.2 LOWERING THE LITTER TOP.....	10
3.4.3 TRENDELENBURG ADJUSTMENT.....	10
3.4.4 REVERSE TRENDELENBURG ADJUSTMENT.....	10
3.5 BACKREST / KNEE FLEX OPERATION.....	11
3.5.1 RAISING THE BACKREST / KNEE FLEX.....	11
3.5.2 LOWERING THE BACKREST / KNEE FLEX.....	11
3.6 PATIENT RAIL OPERATION.....	12
3.6.1 RAISING THE RAIL.....	12
3.6.2 HALF HEIGHT.....	12
3.6.3 LOWERING THE RAIL.....	12
3.7 EYE HEADREST.....	13
3.7.1 PRE-OP / POST-OP HEAD EXTENSION – PUSHBAR.....	13
3.7.2 ADJUSTING THE EYE HEADREST.....	13
3.7.3 MOUNTING THE WRIST REST.....	13
3.8 PERMANENTLY MOUNTED IV ROD OPERATION.....	14
3.8.1 PUTTING IV ROD IN UP POSITION.....	14
3.8.2 EXTENDING IV ROD.....	14
3.8.3 RETRACTING IV ROD.....	14
4 PREVENTIVE MAINTENANCE FOR THE USER.....	15
5 OPTIONAL ACCESSORIES.....	16
6 GF HEALTH PRODUCTS, INC. LIMITED WARRANTY FOR HAUSTED BRAND STRETCHERS AND CHAIRS.....	17
7 DISPOSAL AND KEY TO SYMBOLS.....	18
DISPOSAL.....	18
KEY TO SYMBOLS.....	18
8 INDEX.....	19

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INTRODUCTION – A WORD FROM GF HEALTH PRODUCTS, INC.

This manual contains important information on proper use and maintenance of the Hausted Surgi-Stretcher. All personnel involved in the use and maintenance of this equipment must carefully review and comply with the warnings, cautions and instructions contained in this manual. These instructions are important to protect the health and safety of personnel operating model 578 and should be retained in a conveniently accessible area for quick reference.

Complete instructions for uncrating and putting your new equipment in service, as well as equipment drawings, have been furnished. If missing, contact GF Health Products, Inc. for replacement copies, giving the serial number and model number of the unit.

GF Health Products, Inc. carries a complete line of accessories for use with these stretchers; your representative will gladly review these with you.

Indications for Use

The Hausted Surgi-Stretchers are intended for use in patient treatment, transport or recovery.

The articulating head piece with dual operating control knobs allows adjustability and precise movement of the head section. Patient positioning is convenient and easy for both care provider and patient with the electric/battery powered controls for adjustment of height, backrest and knee flex.

Service Information

A thorough preventive maintenance program is essential to safe and proper unit operation. This manual contains maintenance schedules and procedures which should be followed for satisfactory equipment performance.

We encourage you to contact GF Health Products, Inc. with maintenance concerns.

Advisory

A listing of the safety precautions to be observed when operating and servicing this equipment can be found in Section 1 of this manual. Do not operate or service the equipment until you have become familiar with this information. Any alteration of this equipment not authorized or performed by GF Health Products, Inc., could affect its operation, will void the warranty, could violate national, state, and local regulations, and could jeopardize your insurance coverage.

Info: *Column 1 below applies only if product was purchased outside the U.S.*

	<table border="1"><tr><td>EU</td><td>REP</td></tr></table>	EU	REP
	EU	REP	
<p>EU Authorized Representative: AR Experts BV Boeingavenue 209 1119 PD Schiphol-Rijk The Netherlands www.ar-experts.eu</p>			

	<p>Manufactured by: GF Health Products, Inc. One Graham-Field Way Atlanta GA 30340-3140 1.770.368.4700 Main 1.770.368.2386 Fax www.grahamfield.com www.Hausted.com</p>
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Info: *The base language of this document is ENGLISH. Any translations must be made from the base language document.*

1 LIST OF WARNINGS AND CAUTIONS

⚠ IMPORTANT: Before using the 578 Surgi-Stretcher, please read and adhere to the following safety precautions and warnings. Failure to do so could result in serious personal injury or damage to the Stretcher.

Always consult your healthcare professional to determine safe methods most suitable for your individual abilities. Protect yourself, your attendant, and the 578 Surgi-Stretcher by having it serviced regularly. If you experience any malfunction, contact your Graham-Field authorized distributor immediately, as a hazardous condition could result, causing personal injury or damage to the Stretcher.

Periodic inspection, adjustment and replacement of worn parts are necessary to provide years of excellent service. Maintenance **MUST** be performed by qualified personnel **ONLY**.

SAVE THESE INSTRUCTIONS.

SIGNIFICANCE OF SAFETY STATEMENTS

Please note the following special statements, used throughout this manual, and their significance:

⚠ DANGER: Indicates a potential hazard situation or unsafe practice that, if not avoided, will result in death or serious personal injury.

⚠ WARNING: Indicates a potential hazard situation or unsafe practice that, if not avoided, could result in death or serious personal injury.

⚠ CAUTION: Indicates a potential hazard situation or unsafe practice that, if not avoided, could result in minor or moderate personal injury.

▲ NOTICE: Indicates a potential hazard situation or unsafe practice that, if not avoided, could result in product or property damage.

Info: *Provides application recommendations or other useful information to ensure that you get the most from your product.*

DANGER / WARNING / CAUTION / NOTICE Summary

The following is a listing of the safety precautions which must be observed when operating and servicing this equipment. These precautions are repeated (in whole or in part), where applicable, throughout the manual.

WARNING: To Reduce the Risk of Personal Injury

- ⚠ WARNING: LACERATION HAZARD — When cutting bands always use a tool specifically designed for that purpose. This will help to avoid personal injuries frequently incurred when bands are cut and tension released.**
- ⚠ WARNING: DO NOT sit on end — tipping may occur.**
- ⚠ WARNING: Ensure IV rod is inserted completely into socket up to the arrow BEFORE applying load.**

WARNING — CAUTIONS AND PROPER OPERATION

- ⚠ WARNING: This product has a maximum weight capacity of 500 lb (226 kg) EVENLY DISTRIBUTED.**
- ⚠ WARNING: Patient entry, egress and transfer should ALWAYS be done with the brakes locked.**
- ⚠ WARNING: The brakes should ALWAYS be locked and patient side rails up when patient is not in transport.**
- ⚠ WARNING: Ensure rail is locked before leaving patient.**
- ⚠ WARNING: DO NOT sit on foot end or head end — tipping may occur.**
- ⚠ WARNING: DO NOT modify the equipment without the authorization of the manufacturer.**
- ⚠ WARNING: When lowering the rails, ensure patient and caregiver body and extremities are clear of pinch points before operating the rail.**

2 UNCRATING INSTRUCTIONS

IMPORTANT — REPORT ANY SHIPPING DAMAGE IMMEDIATELY:

⚠ WARNING: Inform shipper of any damage — leave carton intact. Leave equipment in the receiving area until inspection is complete.

NOTICE — POSSIBLE EQUIPMENT DAMAGE:

▲ NOTICE: The crate contains fragile, expensive medical equipment. Uncrate and handle carefully. If after uncrating the equipment you find any damage (no matter how slight), report the damage to GF Health Products, Inc.

WARNING — PERSONAL INJURY HAZARD:

⚠ WARNING: When cutting bands, always use tool specifically designed for that purpose. This will help avoid personal injuries possibly incurred when bands are cut and tension is released.

ENVIRONMENTAL CONDITIONS

Operating	
Temperature	5°C to 40°C
Relative Humidity	20% to 90% @ 30°C
Atmospheric Pressure	700 to 1060 hPa

Storage and Transport	
Temperature	-10°C to 50°C
Relative Humidity	20% to 90% @ 30°C
Atmospheric Pressure	700 to 1060 hPa

UNPACKING INSTRUCTIONS

IMPORTANT: Follow each step in the order shown in these instructions.

Your Hausted equipment has been carefully packed at our manufacturing plant to ensure safe shipment to your medical facility. There are several procedures you must follow to put your new equipment in service. These procedures only take a few minutes to complete and all are required to ensure proper operation of the equipment.

1. Cut the two bands around the shipping carton.
2. Remove the top half of the carton and cut one side of the bottom half.
3. Ensure the fifth wheel / power drive wheel clears the edge of the skid when removing product (where applicable), then remove the equipment from the carton.
4. Check to see if all features of the equipment work properly. If all the features work, advance to step 5. If any features do not work properly, call GF Health Products, Inc. at 1.770.368.4700.

Info: *Although the equipment has been fully charged prior to shipment, plug the unit into a wall socket prior to checking any electric features.*

5. Clean the equipment using mild detergent to remove any dirt accumulated during shipment, and place the equipment into service.

3 OPERATING INSTRUCTIONS

3.1 SURGI-STRETCHER SPECIFICATIONS

Info: All dimensions, unless otherwise specified, are in inches. All dimensions are $\pm.375$.
GF Health Products, Inc. reserves the right to change specifications without notice.

Model	Hydraulic Standard Width 578EYEST	Hydraulic Wide Width 578EYXST
Height Range: High	32 in [81 cm]	
Height Range: Low	24 in [61 cm]	
Overall Width	29.75 in [75.6 cm]	34.5 in [87.6 cm]
Overall Length	88.5 in [225 cm]	
Patient Surface Width	25 in [63.5 cm]	30 in [76 cm]
Patient Surface Length	81.5 in [207 cm]	
Backrest Degree of Movement	0° - 90°	
Knee Flex Degree of Movement	0° - 75°	
Trendelenburg / Reverse Trendelenburg	16°	
Retracto Rail Height	14 in [35.5 cm]	
Retracto Rail Length	49 in [125 cm]	
Casters	8 in Tente® [20 cm]	
Maximum Weight Capacity (EVENLY DISTRIBUTED)	500 lb [227 kg]	
Mattress Pad Thickness	3 in [8 cm]	

3.2 FEATURES, WARNINGS AND PROPER OPERATION OPERATING INSTRUCTIONS

WARNINGS – CAUTIONS AND PROPER OPERATION (See Diagram on following page)

⚠ WARNING: DO NOT sit on end – tipping may occur.

⚠ A. WARNING: The stretchers have a warning label located at the head end stating: Maximum patient weight 500 lb (226 kg) EVENLY DISTRIBUTED.

⚠ B. WARNING: Patient entry, egress and transfer should always be done with the brakes locked.

⚠ C. WARNING: The brakes should always be locked and patient side rails up when patient is not in transport.

⚠ D. WARNING: Ensure rail is locked before leaving patient.

⚠ E. WARNING: Floors must be smooth and level to maintain optimum fifth wheel steering. Fifth wheel steering functions can be influenced by floor irregularities (bumps or dips) greater than 1/2" (13 mm) across the span of the stretcher.

⚠ F. WARNING: When lowering the rails, ensure patient and caregiver (or attendant) body and extremities are clear of pinch points before operating the rail.

Features (Shown in Illustration of 578EYEST below)



3.3 BRAKING AND STEERING OPERATION

3.3.1 Applying the Brakes

Activate the four wheel central braking system by depressing the red pedal at any of the four corners of the unit (Figure 3-1) to approximately 45°. All four caster wheels should then be locked from swiveling and rotating.

3.3.2 Releasing the Brakes

Release the brakes by depressing the green pedal at any corner of the unit until the pedal is in a horizontal position (Figure 3-2). All four wheels should then rotate and swivel freely.

⚠ WARNING: Ensure the brakes are locked when the patient is NOT being transported.

3.3.3 Applying the Steering Lock / Fifth Wheel

From any corner of the stretcher, depress the green pedal downward into locked position (Figure 3-3). Push the stretcher forward. Either one caster at the foot end will lock into nonswivel mode, or the optional fifth wheel will lower and apply pressure to the floor, thus guiding the stretcher along a straight path with minimal steering effort by the attendant.

⚠ WARNING: Floors must be smooth and level to maintain optimum fifth wheel steering. Fifth wheel steering functions can be influenced by floor irregularities (bumps or dips) greater than 1/2" (13 mm) across the span of the stretcher.

3.3.4 Releasing the Steering Lock / Fifth Wheel

Release the steering lock by depressing the red pedal at any corner of the unit until the pedal is in a horizontal position (Figure 3-2). All four casters should then rotate and swivel freely, and / or the optional fifth wheel will retract.

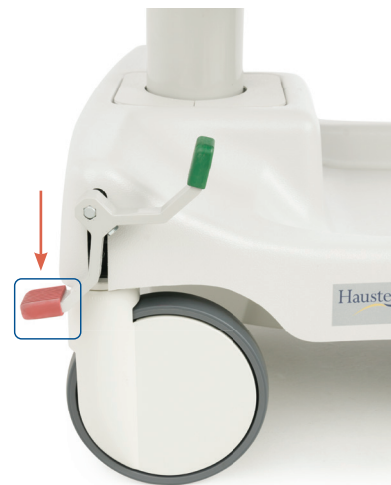


FIGURE 3-1

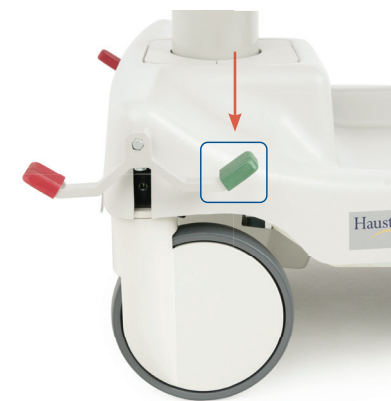


FIGURE 3-2

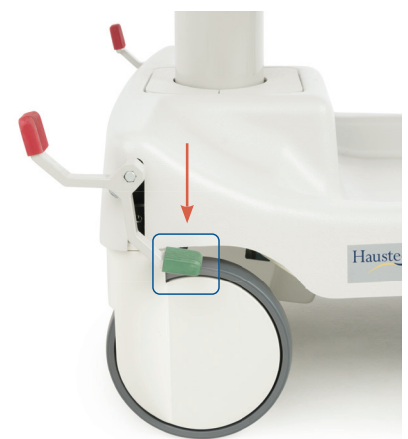


FIGURE 3-3

3.4 STRETCHER TOP HEIGHT ADJUSTMENT

▲ **NOTICE:** Do not stand on the pedals.

3.4.1 Height Adjustment

Press the pump pedal to the floor (Figure 3-4), then release. Repeat this process until desired height is reached. Use smooth strokes on the pedal to ensure patient comfort.

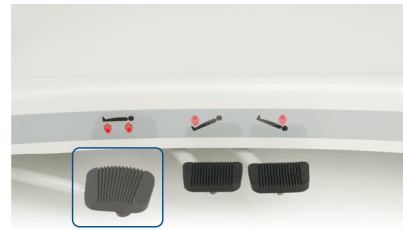


FIGURE 3-4

3.4.2 Lowering the Litter Top

Press down on the two release pedals at the same time (Figure 3-5) until desired height is reached.

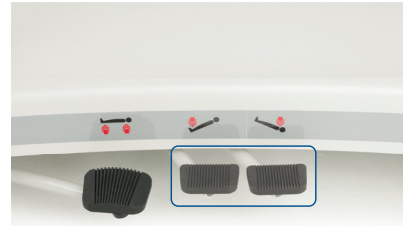


FIGURE 3-5

3.4.3 Trendelenburg Adjustment

Place the unit at maximum height (see **Height Adjustment** above). Press down on the release pedal nearest the head end (Figure 3-6) until desired position is reached, then remove pressure.

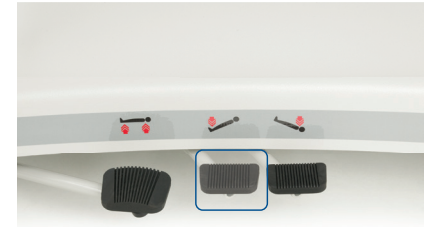


FIGURE 3-6

3.4.4 Reverse Trendelenburg Adjustment

Place the unit at maximum height (see **Height Adjustment** above). Press down on the release pedal nearest the foot end (Figure 3-7) until desired position is reached, then remove pressure.



FIGURE 3-7

3.5 BACKREST / KNEE FLEX OPERATION

3.5.1 Raising the Backrest / Knee Flex

To elevate the backrest or knee flex, flip the crank handle upward and rotate the crank handle clockwise. When the desired position is reached, stop the rotating motion and return the crank handle to its original position (Figure 3-8).

3.5.2 Lowering the Backrest / Knee Flex

To lower the backrest or knee flex, flip the crank handle upward and rotate the crank handle counterclockwise. When the desired position is reached, stop the rotating motion and return the crank handle to its original position (Figure 3-8).



FIGURE 3-8

3.6 PATIENT RAIL OPERATION

⚠ WARNING: ALWAYS ensure the rail is locked in position before leaving the patient unattended.

3.6.1 Raising the Rail

Grasp the rail top cap in the middle of the rail (Figure 3-9) and lift.

3.6.2 Half Height

Grasp the rail and lift the red trigger under the litter top (Figure 3-9) while lowering the rail. When the rail starts to move down, release the trigger. Lower the rail until it locks into half height position.

3.6.3 Lowering the Rail

Grasp the rail and lift the red trigger under the litter top while lowering the rail. Continue to lift the trigger until the rail is all the way down.

⚠ WARNING: When lowering the rails, ensure patient and caregiver body and extremities are clear of pinch points before operating the rail (Figure 3-9).

⚠ WARNING: Ensure both rails are in upright locked position before leaving patient.

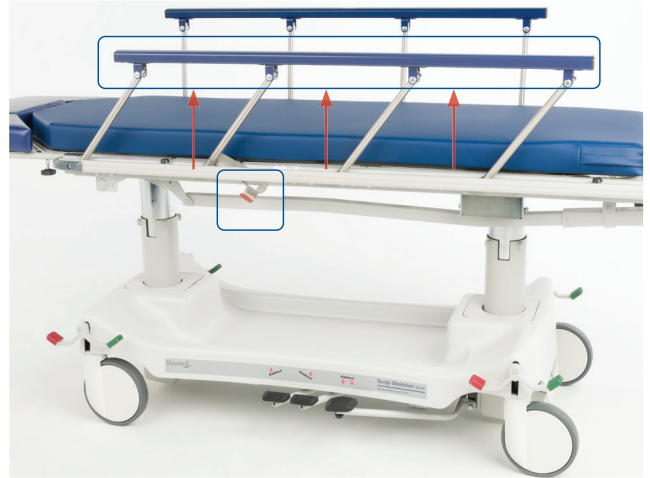


Figure 3-9

3.7 EYE HEADREST

3.7.1 Pre-Op / Post-Op Head Extension — Pushbar

To remove the head extension, rotate both knobs on the extension ends counterclockwise (Figure 3-10). With both knobs loosened, pull out on the extension. To install the extension, slide the extension tube ends over the Fowler pins, push the extension all the way onto the pins, then tighten both knobs (Figure 3-10) on the extension ends.



Figure 3-10

3.7.2 Adjusting the EYE Headrest

Remove the head extension, see “Pre-op / Post-op Head Extension — Pushbar” instructions. Grasp the right ball style knob (Figure 3-12). Rotate the knob counterclockwise to articulate the head section upward. Rotate the knob clockwise to articulate head section downward.

Once the upward articulation has been set, grasp the left ball style knob (Figure 3-13). Rotate the knob counterclockwise to adjust the height of the head rest.

IMPORTANT

After understanding which knob creates which action, quick and smooth adjustment can be achieved by rotating the knobs simultaneously (Figure 3-10).

3.7.3 Mounting the Wrist Rest

Place the wrist rest in one of the three square sockets under the headrest (Figure 3.14). Rotate the “T” knob on the back of the rest clockwise to secure it.

⚠ WARNING: Ensure the wrist rest is securely mounted before applying pressure.



Figure 3-11



Figure 3-12



Figure 3-13



Figure 3-14

3.8 PERMANENTLY MOUNTED IV ROD OPERATION

Refer to Figure 3-15 on Right

⚠ WARNING: PERSONAL INJURY HAZARD —

Ensure IV Rod is inserted completely into socket up to the arrow BEFORE applying any load.

3.8.1 Putting IV Rod in up position

1. Grasp IV Rod and rotate upward until it stops.
2. Push down on IV Rod until it slides firmly into rod hinge socket.

3.8.2 Extending IV Rod

1. Rotate screw collar, or large screw collar, until loosened adequately to allow inner tube to easily slide up or down within outside tube.
2. Lift up on top of IV Rod until desired height is achieved.
3. Tighten collar screw(s) until hand tight.

3.8.3 Retracting IV Rod

1. Support extended portion of IV Rod with one hand.
2. Rotate screw collar until loosened.
3. Lower IV Rod until desired height is achieved, then retighten screw collar.
4. Repeat process with second screw collar as required.

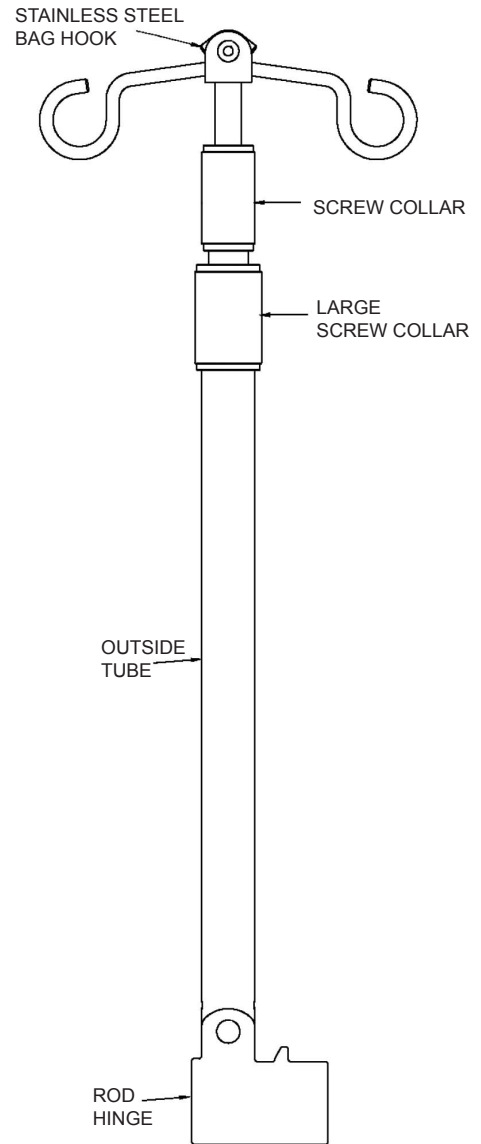


Figure 3-15

4 PREVENTIVE MAINTENANCE FOR THE USER

Component	Cleaning Procedure	Schedule	Cleaning Agent *	Special Notes
Pads / Mattresses	Wipe with damp cloth to remove any foreign material	After each use	Routine hospital grade disinfectants, soap and water	Use only medium strength cleaners Do not steam clean or pressure wash
Stretcher	Wipe with damp cloth to remove any foreign material		Routine hospital grade disinfectants, soap and water	Lubricate pivot points after cleaning
Mechanical stretcher components	Wipe with damp cloth to remove any foreign material		Routine hospital grade disinfectants, soap and water	Lubricate pivot points after cleaning
Mechanical accessories	Wipe with damp cloth to remove any foreign material		Routine hospital grade disinfectants, soap and water	Lubricate pivot points after cleaning
Procedure		Schedule	Material	
Lubricate all moving and sliding parts and hinge points		Every 3 months	Lubricating oil, light-duty grease, wax stick lubricant or Never-Seez lubricant	
⚠ NEVER LUBRICATE GAS SPRING, MOTOR, OR MECH-LOCK SHAFTS ⚠				
Inspect all fasteners to ensure proper fit, position and tightness, including nuts, bolts, etc.		Every 3 months	Proper size wrench and screwdriver	
Inspect all surfaces and remove any sharp or burred areas; apply touch-up paint where required			Metal file, proper color paint (specify color when ordering)	
* Disinfecting and Cleaning Upholstery - ALWAYS follow manufacturer's recommended dilution				
Disinfectants for vinyl products	Phenolic disinfectants are the best choice for vinyl			
	Properly diluted quaternaries are also acceptable for vinyl			
	Quaternary / Isopropyl disinfectants ARE NOT recommended for vinyl			
Disinfectants for urethane products	Quaternary disinfectants are recommended for urethane			
	Quaternary / Isopropyl disinfectants are recommended for urethane			
	Phenolics SHOULD BE AVOIDED on urethane.			
Disinfectants for all products	All fabrics may be cleaned with a 1:10 dilution of household bleaches containing 5.25% sodium hypochlorite as recommended by the Centers for Disease Control in Atlanta, Georgia; there is no harmful effect on the fabric			
	Disinfectants applied at full concentration or in highly concentrated solutions will decrease the useful life of fabric			
	Iodophor-type disinfectants used on fabric may result in staining			
Soils or Stains	Use neutral soapsuds and lukewarm water; DO NOT use harsh cleansers, solvents or detergents			
Hard-To-Clean Spots	Use standard household / vinyl cleansers and a soft bristle brush on troublesome spots or stains; presoak heavy, dried-on soil			
Laundering	Laundering Vinyl-laminated, Polyurethane-coated, or Rubber-coated fabric IS NOT recommended; laundering may substantially decrease the useful life of the fabric			

▲ NOTICE – POSSIBLE EQUIPMENT DAMAGE HAZARD: Steam cleaning and pressure washing of stretcher is not recommended and can void warranty.

Info: For more detailed information, please contact GF Health Products, Inc. at 1.770.368.4700.

Info: In addition to the User Preventive Maintenance, a more detailed Preventive Maintenance Program is also required to keep the equipment in good working order. This Preventive Maintenance Program is found on our website, at www.Hausted.com.

5 OPTIONAL ACCESSORIES

Universal Accessories	
H000E1700	IV Rod, 42" Fixed Height
H000018	IV Rod, Telescoping Stainless 27" to 50" Height 2-Section with Holder
HSA400700	Surgical Accessories Rail - Pair
HSA400500	Surgical Armboard with 1" Pad (Includes Surgical Support Rails)
H000012	Safety Strap with Buckle
HAPC01200	Safety Strap, Hook and Loop
HSA400600	Oxyflex II with Flexible Support Structure and Adapter
HSA007900	Oxyflex II with Flexible Support Structure and Tuck Plate
HSA008000	Disposable Oxyflex II Diffusion Tray Including 24" Tube (Qty 25)
HSA078500	Wrist Rest, Dual Lateral
HSA078600	Wrist Rest, Full U (Over the Brow)
HP150830477B	Headrest 2" with Lateral Support
HP150830448B	Headrest 3" with Lateral Support
HSA063500B	Headrest 4" with Lateral Support
H06884600	Extension Footboard / Monitor Shelf with Chart Holder
H00CR7B00	Extension Footboard Combination with Chart Holder
H00CR6B00	Endboard with Chart Holder

⚠ WARNING: It is recommended that only accessories approved by GF Health Products, Inc. be used with this device. The use of accessories, transducers, and cables other than those specified by the manufacturer may result in increased emissions or decreased immunity of the Hausted equipment.

Info: To order accessories, or for more detailed information on accessories, please contact GF Health Products, Inc. at 1.770.368.4700.

6 GF HEALTH PRODUCTS, INC. LIMITED WARRANTY FOR HAUSTED BRAND STRETCHERS AND CHAIRS

SCOPE OF WARRANTY

GF Health Products, Inc. ("GF") warrants to the original purchaser only that it will replace or repair components, at GF's sole discretion, that are defective in material or workmanship under normal use and service. All warranties are conditioned upon the proper use of the products strictly in accordance with good commercial practice and applicable GF instructions and manuals, including proper use and maintenance. To the extent that a third party warrants a component, GF conveys all of its rights under that warranty to the original purchaser, to the extent permitted.

This limited warranty shall only apply to defects that are reported in accordance with the provisions set forth in this warranty document, within the applicable warranty period and which, upon examination by GF or its authorized representative, prove to be a warranty item. (See Obtaining Warranty Service below) This limited warranty is not transferable.

The warranted components and time periods are set forth below:

COMPONENT	PARTS WARRANTY	LABOR WARRANTY*
Frame.....	5 years.....	1 year
Casters.....	1 year	1 year
Electrical components.....	1 year	1 year
Hydraulics	1 year	1 year
Optional accessories	1 year	1 year
Patient weighing system	1 year	1 year
Pneumatic gas springs	1 year	1 year
Upholstered pads	1 year	1 year
Replacement Parts †.....	90 days	

* Labor is not included in the warranty.

† Upholstery is only warranted on material supplied by GF.

‡ The warranty period is as designated above. If a part is replaced under warranty, the original warranty period will not be affected. All other replacement parts will be subject to the warranty period specified.

The applicable warranty period shall commence from date of shipment to the original customer, unless there is an expiration date on the component in which case the warranty shall expire on the earlier of warranty period or the expiration date.

OBTAINING WARRANTY SERVICE

Customers located in the United States who wish to report a warranty issue, must contact GF directly by calling 1.770.368.4700 or by e-mailing a request to cs@grahamfield.com. Customers located outside the United States must contact the Distributor from whom they purchased the products. In both cases, further directions will be provided once the initial contact is made. This limited warranty shall only apply to defects that are reported within the applicable warranty period. Failure to abide by the specific directions will result in denial of the warranty claim.

The warranty does not cover and GF shall not be liable for the following:

1. Defects, damage, or other conditions caused, in whole or in part, by misuse, abuse, negligence, alteration, accident, freight damage, tampering or failure to seek and obtain repair or replacement in a timely manner;
2. Products which are not installed, used, or properly cleaned and maintained as required in the official manual for the applicable product;
3. Products considered to be of a non-durable nature including, but not limited to: filters, fuses, gaskets, lubricants, and charts;
4. Accessories or parts not provided by GF;
5. Matching of color, grain or texture except to commercially acceptable standards;
6. Changes in color caused by natural or artificial light;
7. Charges by anyone for adjustments, repairs, replacement parts, installation or other work performed upon or in connection with such products which are not expressly authorized in writing, in advance, by GF;
8. Any labor or shipping charges incurred in the replacement part installation or repair;
9. Costs and expenses of regular maintenance and cleaning; and
10. Representations and warranties made by any person or entity other than GF.

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NOTES:

1. Additional terms and conditions may apply. See GF's General Terms and Conditions on its website: www.grahamfield.com.
2. Freight claims must be notated on the appropriate shipping documents and must be made with immediacy. International, federal and state regulations govern specific requirements for freight claims. Failure to abide by those regulations may result in a denial of the freight claim. GF will assist you in filing the freight claim.
3. Claims for any short shipment must be made within three (3) days of the invoice date.

7 DISPOSAL AND KEY TO SYMBOLS

DISPOSAL

Hausted equipment and accessories can be disposed of.











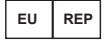



We recommend disassembling and dividing the equipment and components into different waste groups such as: metal, cable, electronic, recoverable resource and plastic for recycling or combustion.

Most plastic components are provided with a plastic types code and fiber content to aid sorting of plastic parts.

Product	Metal Scrap	Cable Scrap	Plastic Recycling or Combustion
578	X	X	X

KEY TO SYMBOLS

The following symbols are used on Hausted product labels.

	Protective Earth		Manufacturer
	Medical Device		Keep Dry
	General Warning Sign		Fragile, Handle with Care
	CE Mark		Unique Device Identifier
	ETL		Consult Instructions for Use
	European Authorized Representative		Caution
	Disconnect before Service		Pinch Point

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8 INDEX

A

Accessories, optional, list 16
Advisory 4
A word from GF Health Products, Inc. 3

B

Brakes, releasing 9
Brakes, steering, applying 9
Brakes, steering, releasing 9
Braking and steering operation 9

C

CAUTION labels 8
CAUTION statement, significance 5
Cleaning 15

D

DANGER statement, significance 5
DANGER / WARNING / CAUTION / NOTICE Summary 5
Disposal 18

E

Environmental conditions 8
Eye headrest 13
Eye headrest, adjusting 13
Eye headrest, mounting the wrist rest 13
Eye headrest pre-op / post-op head extension —
pushbar 13

F

Features 11

H

Height adjustment 10

I

Indications for use 4
Info statement, significance 5
Introduction 4
IV rod, permanently mounted, operation 14

L

Limited warranty 17
Lubrication 15

N

Neutral return, nurse control 10
NOTICE statement, significance 5

O

Operating instructions 9

P

Patient rail operation 12
Preventive maintenance for the user 15
PROPER OPERATION labels 7

R

Rail, patient, half height 12
Rail, patient, lowering 12
Rail, patient, raising 12
Reverse Trendelenburg adjustment 10

S

Safety statements, significance of 4
Service information 3
Stretcher top adjustment 10
Surgi-stretcher specifications 9
Symbol key, Hausted product labels 18

T

Trendelenburg adjustment 10
Trendelenburg adjustment, nurse control 10
Trendelenburg lockout, nurse control 10

U

Uncrating instructions 8
Unpacking instructions 8

W

WARNING labels 11
Warnings 5
WARNINGS and CAUTIONS, list 5
WARNING statements 5
WARNING statement, significance 5
Warranty, limited 17

Hausted[®]
by graham-field



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GF Health Products, Inc.
1 Graham-Field Way, Atlanta, GA 30340
Made in USA

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+1 770.368.4700

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