CONVERGE MULTI-PURPOSE TREATMENT AND EXAM STRETCHER MODEL: 4E7APR AND 4D7APR
OPERATING MANUAL
READ THIS MANUAL BEFORE OPERATING YOUR STRETCHER.
SAVE THIS MANUAL FOR FUTURE USE.
THE MOST CURRENT VERSION OF THIS MANUAL CAN BE FOUND ONLINE AT WWW.HAUSTED.COM.
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3.6.1 RAISING THE RAIL
3.6.2 HALF HEIGHT
3.6.3 LOWERING THE RAIL

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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 Electric Converge 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 4E7APR and 4D7APR 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 chairs; your representative will gladly review these with you.

Indications for Use

The Hausted Electric Converge Stretchers are intended for use in patient treatment, transport or recovery.

The stretcher backrest can be positioned from supine to sitting. Height positioning, as well as backrest and leg section adjustment, is electric/battery powered and is activated with a handheld control. Four easy-rolling, steerable casters allow maximum mobility and maneuverability.

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.

Manufactured by:
GF Health Products, Inc.
336 Trowbridge Drive
Fond du Lac, WI 54937
678-291-3207 Main
770-368-2386 Fax
www.grahamfield.com
www.Hausted.com

Class 1 Equipment
Type B Equipment
Equipment not suitable for use in the presence of flammable anesthetic mixture with air or oxygen or nitrous oxide.
Ordinary Equipment (enclosed equipment without protection of ingress of water)
IPX4 (Splash-proof equipment)
Not suitable for continuous operation (Duty Cycle: 10% 2 Min in 18 Min)

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 Hausted Converge 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 Hausted Converge 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.

DANGER: To Reduce the Risk of Burns, Fire, or Electric Shock

⚠️ DANGER: SHOCK HAZARD — To reduce the risk of electric shock, do not remove the cover. Unit is to be serviced by qualified personnel only.

⚠️ DANGER: PERSONAL INJURY HAZARD — The batteries are wired in series; failure to connect the same way can cause batteries to explode.

⚠️ DANGER: SHOCK HAZARD — To avoid the risk of electric shock, this equipment must only be connected to supply mains with protective earth.

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 327 kilograms (720 lb).

⚠️ 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: Clip patient pendant to rail when not in use – keep cord clear of moving parts.

⚠️ WARNING: All electric powered stretchers are equipped with a built-in battery back-up system, but the unit should remain plugged into wall receptacle during normal use. The battery back-up is intended for transport and EMERGENCY only.

⚠️ WARNING: The Fowler backrest quick drop handle is intended to be used during EMERGENCY situations only.

⚠️ WARNING: Ensure rail is locked before leaving patient.

⚠️ WARNING: The lockout panel deactivates both the patient pendant and the control panel.

⚠️ WARNING: Do not sit on foot section — tipping may occur.

⚠️ WARNING: Do not sit on footrest.

⚠️ WARNING: To turn on electric controls, plug into wall receptacle. To turn off, remove plug from wall receptacle. Electric powered stretchers do not have a separate on/off switch.

⚠️ WARNING: Always disconnect the power source whenever troubleshooting or servicing any electric powered stretcher.

⚠️ WARNING: Medical Electrical Equipment needs special precautions regarding EMC and needs to be installed and put into service according to the EMC information provided in this manual.

⚠️ WARNING: Portable and mobile RF communications equipment can affect Medical Electrical Equipment.

⚠️ WARNING: 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.

⚠️ WARNING: Hausted Equipment should not be used adjacent to or stacked with other equipment; if adjacent or stacked use is necessary, the Hausted equipment should be observed to verify normal operation in the configuration in which it will be used.

⚠️ WARNING: Do not use a sharp instrument to remove the fuse, as it may scratch the circuit board.

⚠️ WARNING: Do not transport patient in the chair configuration — tipping may occur.

⚠️ WARNING: Do not modify the equipment without the authorization of the manufacturer.

⚠️ WARNING: NOTICE FOR CALIFORNIA CUSTOMERS- California Proposition 65 Warning: This product contains a chemical known to the State of California to cause cancer and reproductive or developmental harm.

CAUTION — POSSIBLE EQUIPMENT DAMAGE

⚠️ CAUTION: Heel stirrup axial adjustment must be straight before raising the foot section, or severe damage to stretcher could occur.

⚠️ CAUTION: Do not run Tendelenburg/Reverse Tendelenburg while in chair seated position.
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

<table>
<thead>
<tr>
<th>Operating</th>
<th>Storage and Transport</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Temperature</strong></td>
<td><strong>Temperature</strong></td>
</tr>
<tr>
<td>5°C to +40°C</td>
<td>-10°C to +50°C</td>
</tr>
<tr>
<td><strong>Relative Humidity</strong></td>
<td><strong>Relative Humidity</strong></td>
</tr>
<tr>
<td>20% to 90% @ 30°C</td>
<td>20% to 90% @ 30°C</td>
</tr>
<tr>
<td><strong>Atmospheric Pressure</strong></td>
<td><strong>Atmospheric Pressure</strong></td>
</tr>
<tr>
<td>700 to 1060 hPa</td>
<td>700 to 1060 hPa</td>
</tr>
</tbody>
</table>

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

UNPACKING 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. 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 678-291-3165.

*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 CONVERGE STRETCHER SPECIFICATIONS

Info: All dimensions are specified in inches. All dimensions are ±.375. Stacked dimensions are minimum (top) and maximum (bottom). GF Health Products, Inc. reserves the right to change specifications without notice.

⚠️ WARNING: This product has a maximum weight capacity of 327 kilograms (720 lb).

Electrical Specifications (Applies only to 4E7APR Model)

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product Classification</td>
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<tr>
<td>Input Voltage</td>
<td>120V~, 60Hz</td>
</tr>
<tr>
<td>Amperage</td>
<td>Max. 4.0A</td>
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<tr>
<td>Duty Cycle</td>
<td>10% 2 Min in 18 Min</td>
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<tr>
<td>IP Rating</td>
<td>IPX 4</td>
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<tr>
<td>Grounding Protection</td>
<td>Type B</td>
</tr>
</tbody>
</table>

Electrical Specifications (Applies only to 4D7APR Model)

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product Classification</td>
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</tr>
<tr>
<td>Input Voltage</td>
<td>230V~, 50Hz</td>
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<tr>
<td>Amperage</td>
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<tr>
<td>Duty Cycle</td>
<td>10% 2 Min in 18 Min</td>
</tr>
<tr>
<td>IP Rating</td>
<td>IPX 4</td>
</tr>
<tr>
<td>Grounding Protection</td>
<td>Type B</td>
</tr>
</tbody>
</table>
3.2 FEATURES, WARNINGS AND PROPER OPERATION OPERATING INSTRUCTIONS
WARNINGS — CAUTIONS AND PROPER OPERATION (See Diagram on following page)

⚠️ A. WARNING: The stretcher has a warning label located on the back section stating: Maximum patient weight 327 kilograms (720 lbs.)
⚠️ 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: The patient pendant has a warning label on it stating: Clip pendant to rail when not in use - Keep cord clear of moving parts.
⚠️ E. WARNING: All electric stretchers are equipped with a built-in battery back-up system, but it is recommended that the unit remain plugged into wall receptacle during normal use. The battery back-up is recommended for transport and EMERGENCY only.
⚠️ F. WARNING: The Fowler backrest quick drop handle is intended to be used during EMERGENCY situations only.
⚠️ G. WARNING: Ensure rail is locked before leaving patient.
⚠️ H. WARNING: The lockout panel deactivates both the patient pendant and the control panel.
⚠️ I. WARNING: The stretcher has a warning label on the tube of the leg section stating: Severe damage could occur to stretcher. Before raising the foot section, the heel stirrup axial adjustment must be straight.
⚠️ J. WARNING: The stretcher has a warning label on the end of the foot section stating: Do not sit on foot section. Tipping may occur.
⚠️ K. WARNING: The stretcher has a warning label on the footrest stating: Do not stand on footrest.
⚠️ L. WARNING: To turn on electric controls, plug into wall receptacle; to turn off, remove plug from wall receptacle. The electric powered stretchers do not have a separate on/off switch.
⚠️ M. WARNING: The stretcher has a warning label located on the control box cover stating: To reduce the risk of electrical shock do not remove the cover. Service by qualified personnel only.
⚠️ N. WARNING: Always disconnect the power source whenever servicing any electric powered stretcher.
⚠️ O. WARNING: The batteries are wired in series; failure to install or rewire the same way may cause the batteries to explode.
⚠️ P. WARNING: The stretcher has a warning label on the tube of the leg section stating: Do not transport patient in the chair configuration (tipping may occur).
⚠️ Q. CAUTION: The stretcher has 4 caution labels on the tube of the leg section signifying possible foot crush. With leg section in down position, when raising or lowering unit, keep feet and other objects clear.
⚠️ R. CAUTION: Do not run Tendelenburg/Reverse Tendelenburg while in chair seated position.
Features (Shown in Illustration)

- 3 Position Patient Side Rails
- See Warnings C & G
- Fowler Backrest
- See Warning F
- 3 Position Patient Side Rails
- See Warnings C & G
- Nurse Control Box
- See Warning H
- Built-In Oxygen Tank Holder
  (Located in Base Cover on Patient’s Right Side)
- Protective Bumpers
- Brake Steer Pedal
  on all 4 Corners
  See Warnings B & C
- Hospital-Grade Plug
  See Warnings E, L, & M
- Electric Control Box
  See Warnings L Thru O
- Built-In Patient Heel Stirrups
- Warning Label
  See Warning I
- Perineal Cutout Pan
- Standard 3” Thick Pad
- Leg Section
  Warning Label
  See Warning R
- Foldaway Footrest
  Warning Label
  See Warning K
- Folding Leg Section
  Warning Label
  See Warnings I, J, & Caution Q
- Fowler Backrest
  Quick-Drop Handle
  See Warning F
- Rail Latch
  Trigger
  See Warnings C & G
- Patient Pendant
  Warning Label
  See Warnings D & H

WARNINGS — CAUTIONS AND PROPER OPERATION (See List on Previous Page)
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
From any corner of the stretcher, depress the green pedal downward into locked position (Figure 3-3). Push the stretcher forward. Both casters at the foot end will lock into nonswivel mode; the steering lock will then guide the stretcher along a straight path with minimal steering effort by the attendant.

3.3.4 Releasing the Steering Lock
Release the steering brakes 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.
3.4 ELECTRIC CONTROL LOCATIONS

3.4.1 Nurse Control Panel
To access the nurse control panel pull out on the handle located at the head end of the unit, under the top. (Figure 3-4).

3.4.2 Patient Pendant Control
The patient pendant has an adjustable location and may be located along either side rail (Figure 3-5).

▲ NOTICE: Clip pendant to rail when not in use. Keep cord clear of moving parts.

3.4.3 Plug Locations
The stretcher is equipped with a battery back up for transport but the unit should be plugged into a wall receptacle when not in transport. The hospital-grade plug is located under the head end of top section patient left. Unwrap cord from bracket (Figure 3-6) and plug into the nearest wall receptacle.

⚠️ WARNING: This stretcher is equipped with a built-in battery back-up system, but the unit should remain plugged into wall receptacle during normal use. The battery back-up is intended for transport and EMERGENCY only.

3.4.4 Emergency Electric Backrest Override
The unit is equipped with a Fowler backrest quick drop handle which is located under the stretcher top on the patient left (Figure 3-7). This option is only to be used in an emergency situation. The label states: Emergency drop backrest. Pull handle to activate.

3.4.5 Charge Indicator Light
The charge indicator light is positioned in the left bottom corner of the nurse control panel (row 3, column 1), and will illuminate whenever the unit is plugged in to the wall (Figure 3-4).
3.5 STRETCHER TOP ADJUSTMENT (ELECTRIC MODELS)

⚠️ WARNING: The lockout panel deactivates both the patient pendant and the control panel.

3.5.1 Hand Pendant Functions

**Leg Section Adjustment**

**Raising:** Press the first button on the second row of buttons on the pendant (Figure 3-8). Hold until the desired angle is achieved.

**Lowering:** Press the second button on the second row of buttons on the pendant. Hold until the desired angle is achieved.

⚠️ WARNING: PERSONAL INJURY HAZARD —

- Do not transport patient in chair configuration (tipping may occur).
- Do not sit or stand on foot section (tipping may occur).

⚠️ CAUTION: POSSIBLE EQUIPMENT DAMAGE — Heel stirrup axial adjustment must be straight before raising the foot section, or severe damage to stretcher could occur (Figures 3-9, 3-10).

**Back Section Adjustment**

**Raising:** Press the first button on the first row of buttons on the pendant (Figure 3-11). Hold until the desired incline is achieved.

**Lowering:** Press the second button on the first row of buttons on the pendant. Hold until the desired recline is achieved.

**Simultaneous Back & Leg Section Adjustment**

**Raise Back Section / Lower Leg Section:** Press the first button on the third row of buttons on the pendant (Figure 3-12). Hold until the desired angle is achieved.

**Lower Back Section / Raise Leg Section:** Press the second button on the third row of buttons on the pendant (Figure 3-12). Hold until the desired height is achieved.

**Height Adjustment**

**Raising:** Press the first button on the fourth row of buttons on the pendant (Figure 3-13). Hold until the desired height is achieved.

**Lowering:** Press the second button on the fourth row of buttons on the pendant (Figure 3-13). Hold until the desired height is achieved.
3.5.2 Trendelenburg Adjustment

**Lockout:** See “Lockout” in the Section 3.5.5.

**Pendant: Trendelenburg:** Press the second button on the bottom row of buttons (Figure 3-14). Hold in the button until desired angle is achieved.

**Reverse Trendelenberg:** Press the first button on the bottom row of buttons (Figure 3-15). Hold in the button until desired angle.

3.5.3 Nurse Control Functions

**Back Section Adjustment**

Press and hold down the first button on the top row (top left). At the same time, press and hold down the UP or DOWN arrow button which corresponds to the desired direction of travel (Figure 3-16). Hold until the preferred angle is achieved.

**Leg Section Adjustment**

Press and hold down the second button on the top row. At the same time, press and hold down the UP or DOWN arrow button which corresponds to the desired direction of travel (Figure 3-17). Hold until the preferred angle is achieved.

**Height Adjustment**

Press and hold down the third button on the top row. At the same time, press and hold down the UP or DOWN arrow button which corresponds to the desired direction of travel (Figure 3-18). Hold until the preferred height is achieved.
3.5 Trendelenburg Adjustment

Place the unit at maximum height, see “Height Adjustment”.

⚠️ CAUTION: Do not run Trendelenburg/Reverse Trendelenburg while in chair seated position.

Press and hold down the last button on the top row (top right). At the same time, press and hold down the UP or DOWN arrow button which corresponds to the desired direction of travel (Figure 3-19). Hold until the preferred Trendelenburg angle is achieved.

Simultaneous Back & Foot Section Adjustment (Auto Contour)

Press and hold down the third button from the left on the second row (row 2, column 3). At the same time, press and hold down the UP or DOWN arrow button which corresponds to the desired direction of travel (Figure 3-21). Hold both buttons until the desired angle is achieved.

Neutral Return

The neutral return button is a function that allows the unit to return to its naturally retracted position where the patient surface will completely flatten, and the top surface will travel vertically to its maximum or minimum height, depending on the direction of travel specified. To initiate neutral return, press and hold down the second button from the left on the second row (row 2, column 2). At the same time, press and hold down the UP or DOWN arrow button which corresponds to the desired direction of travel (Figure 3-20).
3.5.5 **Lockout**

When a function of the stretcher is locked out, a lockout indicator light located above that function will become illuminated (Figure 3-22). In order to initiate the lockout of a function, press and hold down the Lock button (row 2, column 1). At the same time, press the button corresponding to the function that needs to be locked out. In order to unlock a function, repeat until the lock out indicator light located above that function is no longer illuminated. No light above a function means that that function is unlocked and ready to use.

**Back Section Lockout**

Press the Lockout Button in conjunction with the first button on the top row (Figure 3-23) of the control panel.

**Foot Section Lockout**

Press the Lockout Button in conjunction with the second button on the top row (Figure 3-24) of the control panel.

**Height Lockout**

Press the Lockout Button in conjunction with the third button on the top row (Figure 3-25) of the control panel.

**Trendelenburg Lockout**

Press the Lockout Button in conjunction with the fourth button on the top row (Figure 3-26) of the control panel.
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 3-27) and lift.

3.6.2 Half Height
Grasp the rail and lift the red trigger under the litter top (Figure 3-28) 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 (Fig 28) while lowering the rail. Continue to lift the trigger until the rail is all the way down.
3.7 HEEL STIRRUP OPERATION

⚠️ CAUTION: Heel stirrup axial adjustment (Figure 3-10) must be straight (Figure 3-11) before raising the foot section, or severe damage to stretcher could occur.

3.7.1 Extending the Heel Stirrup

Lower the foot section (Figure 3-29) to approximately 20° below horizontal. Pull the heel stirrup out from under the top (Figure 3-30). Grasp the heel stirrup and fold out (Figure 3-31). At this point, place the patient’s foot into the heel stirrup. Loosen the knob on top of the heel stirrup and adjust the heel stirrup radial axis (Figure 3-32) to the desired position. At this point you can lower the foot section all the way (Figure 3-33).

The heel stirrups can now be pulled out further if needed. Once the proper length is set, rotate the knob on the heel stirrup mount (Figure 3-34) to lock into place.

3.7.2 Retracting the Heel Stirrup

Simply reverse the steps, with the exception of the axial adjustment (Figure 3-34). The stirrup must always be in a straight axis with the stirrup tube (Figure 3-29 and 3-30).

⚠️ CAUTION: Do not raise the foot section with the heel stirrups extended.
3.8 PUSH HANDLE OPERATION (OPTIONAL ACCESSORY)

3.8.1 Raising the Push Handles
Rotate the push handle up (Figure 3-36) until it stops, then slide the push handle down into the socket until it stops. Repeat process for push handle on the other side (Figure 3-37).

3.8.2 Lowering the Push Handles
Lift up on the push handle and rotate (Figure 3-36) until it is in the down position (Figure 3-35). Repeat process for the other side.
3.9 PERMANENTLY MOUNTED IV ROD OPERATION

⚠️ WARNING - PERSONAL INJURY HAZARD:
Be sure I.V. Rod is inserted completely into socket up to the arrow before applying any load.

3.9.1 Putting IV Rod in up position
Grasp I.V. Rod and rotate upward until it stops.
Push down on I.V. Rod until it slides firmly into rod hinge socket (see Figure 3-38)

3.9.2 Extending IV Rod
(Ref to Figure 3-38)
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 I.V. Rod until desired height is achieved.
3. Tighten collar screw(s) until hand tight.

3.9.3 Retracting IV Rod
(Ref to Figure 3-38)
1. Support extended portion of I.V. Rod with one hand.
2. Rotate screw collar until loosened.
3. Lower I.V. Rod until desired height is achieved, then retighten screw collar.
4. Repeat process with second screw collar as required.

Figure 3-38
4 TROUBLESHOOTING GUIDE

4.1 ELECTRIC POWERED STRETCHERS

⚠️ DANGER: SHOCK HAZARD — To reduce the risk of electric shock, do not remove the cover. Unit is to be serviced by qualified service personnel (minimum 1 year medical equipment service and repair experience) only.

⚠️ DANGER: SHOCK HAZARD — Always disconnect the power source whenever troubleshooting or servicing any electric powered stretcher.

<table>
<thead>
<tr>
<th>If</th>
<th>Then</th>
</tr>
</thead>
</table>
| One motor or one column does not move but all others are operating correctly. | Step 1: Check all motor and column plug connections at the controller box.  
Step 2: If a column does not move: Check the connection at the column.  
Step 3: Plug a connector from the faulty component into a different socket.  
If the component does not run: Replace that component.  
If the component runs: Test pendant by plugging a functioning component into the non-functioning socket on the controller. If this component does not run, replace the pendant. If replacing the pendant does not fix the problem, then replace the controller. |

| Nothing moves. | Step 1: Plug unit into main supply wall receptacle, then observe the pilot light on the controller.  
If the pilot light is off: Replace the controller.  
If the pilot light is on:  
1. Check the nurse control plug connection at the controller.  
2. Check the pendant control plug connection at the controller. |

| The unit runs when plugged into wall receptacle, but does not run on battery backup. | Step 1: Plug unit into a wall receptacle overnight.  
If the batteries do not hold a charge, replace the batteries (section 4.2). |

GF Health Products, Inc. may be contacted at 678-291-3165 for additional information required to service or repair the equipment.

4.2 BATTERY REPLACEMENT INSTRUCTIONS

⚠️ DANGER: SHOCK HAZARD — To reduce the risk of electric shock, do not remove the cover. Unit is to be serviced by qualified service personnel (minimum 1 year medical equipment service and repair experience) only.

⚠️ DANGER: PERSONAL INJURY HAZARD — The batteries are wired in series; failure to connect the same way can cause batteries to explode.

⚠️ DANGER: SHOCK HAZARD — Always disconnect the power source whenever troubleshooting or servicing any electric powered stretcher.

| The batteries are the only field serviceable components — do not attempt to repair the circuit boards. |
| Battery replacement | Step 1: Remove the controller.  
Step 2: Remove the 4 screws from the right half, located on top of controller.  
Step 3: Replace (2) batteries with ‘YUSHA’ #NP 1.2-12, 12 volt, 1.2 Ah batteries (Hausted P/N 075759 – 2 required).  
Step 4: Ensure battery connector is in place on left side of batteries.  
Step 5: Replace cover. |
## 5 PREVENTIVE MAINTENANCE FOR THE USER

<table>
<thead>
<tr>
<th>Component</th>
<th>Cleaning Procedure</th>
<th>Schedule</th>
<th>Cleaning Agent *</th>
<th>Special Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pads/ Mattresses</td>
<td>Wipe with damp cloth to remove any foreign material</td>
<td>After each use</td>
<td>Routine hospital grade disinfectants, soap and water</td>
<td>Use only medium strength cleaners</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Avoid steam cleaning or pressure washing</td>
</tr>
<tr>
<td>Stretcher</td>
<td>Wipe with damp cloth to remove any foreign material</td>
<td>After each use</td>
<td>Routine hospital grade disinfectants, soap and water</td>
<td>Lubrate pivot points after cleaning</td>
</tr>
<tr>
<td>Electrical components</td>
<td>Wipe external surfaces ONLY with damp cloth to remove any foreign material</td>
<td>After each use</td>
<td>Routine hospital grade disinfectants, soap and water</td>
<td>Use only medium strength cleaners</td>
</tr>
<tr>
<td>Mechanical stretcher</td>
<td>Wipe with damp cloth to remove any foreign material</td>
<td>After each use</td>
<td>Routine hospital grade disinfectants, soap and water</td>
<td>Lubrate pivot points after cleaning</td>
</tr>
<tr>
<td>Mechanical accessories</td>
<td>Wipe with damp cloth to remove any foreign material</td>
<td>After each use</td>
<td>Routine hospital grade disinfectants, soap and water</td>
<td>Lubrate pivot points after cleaning</td>
</tr>
</tbody>
</table>

### 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
  - Every 3 months
  - Metal file, proper color paint (specify color when ordering)

- **Disinfectants, vinyl products:** Phenolic disinfectants are the best choice for vinyl products; properly diluted quaternaries are also acceptable. Quaternary/isopropyl disinfectants are not recommended for vinyl.

- **Disinfectants, urethane products:** Quaternary disinfectants are recommended for urethane products. Quaternary/isopropyl disinfectants are recommended for urethane. Phenolics should be avoided on urethane.

- **Disinfectants, 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 fabrics 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 Vinyl-laminated or Rubber-coated fabric is not recommended.** Laundering may substantially decrease the useful life of the fabric.

- **Laundering Polyurethane-coated fabric:** Machine wash with detergent up to 120°F. Some surface wrinkling may occur; this wrinkling has no adverse effect on the fabric properties. Hang or tumble dry thoroughly at 140°F before storage.

⚠️ **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 678-291-3165.*

*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.*
### 6 OPTIONAL ACCESSORIES

<table>
<thead>
<tr>
<th>Universal Accessories</th>
</tr>
</thead>
<tbody>
<tr>
<td>000018</td>
</tr>
<tr>
<td>IVSTOW00</td>
</tr>
<tr>
<td>06722500</td>
</tr>
<tr>
<td>06722100</td>
</tr>
<tr>
<td>06883500</td>
</tr>
<tr>
<td>00001200</td>
</tr>
<tr>
<td>APC01200</td>
</tr>
<tr>
<td>07633400</td>
</tr>
<tr>
<td>00L16M00</td>
</tr>
<tr>
<td>06536600</td>
</tr>
<tr>
<td>07566400</td>
</tr>
<tr>
<td>SA094100</td>
</tr>
</tbody>
</table>

⚠️ **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 678-291-3207.*
GF HEALTH PRODUCTS, INC. LIMITED WARRANTY FOR HAUSTED BRAND PRODUCT LINE WITHIN THE U.S.

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 component is warranted by a third party, 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 to GF's customer service team within the applicable warranty period and which, upon examination by GF or its authorized representative, prove to be a warranty item. This limited warranty is not transferable.

The warranted components and time period are set forth below:

<table>
<thead>
<tr>
<th>COMPONENT</th>
<th>PARTS WARRANTY</th>
<th>LABOR WARRANTY</th>
</tr>
</thead>
<tbody>
<tr>
<td>Frame</td>
<td>5 years</td>
<td>5 years</td>
</tr>
<tr>
<td>Hydraulics</td>
<td>1 year</td>
<td>1 year</td>
</tr>
<tr>
<td>Casters</td>
<td>1 year</td>
<td>1 year</td>
</tr>
<tr>
<td>Pneumatic gas springs</td>
<td>1 year</td>
<td>1 year</td>
</tr>
<tr>
<td>Pads and mattresses</td>
<td>1 year</td>
<td>1 year</td>
</tr>
<tr>
<td>Patient weighing system</td>
<td>1 year</td>
<td>1 year</td>
</tr>
<tr>
<td>Electrical components</td>
<td>1 year</td>
<td>1 year</td>
</tr>
<tr>
<td>Optional accessories</td>
<td>1 year</td>
<td>1 year</td>
</tr>
<tr>
<td>Replacement parts</td>
<td>90 days</td>
<td></td>
</tr>
</tbody>
</table>

*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

A GF Customer Service Representative must authorize warranty service. Please contact the GF Customer Service department by calling 678-291-3207, sending a fax request to 770-368-2386 or by e-mailing a request to cs@grahamfield.com. Specific directions will be provided by the Customer Service Representative. Failure to abide by the specific directions will result in denial of the warranty claim.

EXCLUSIONS

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 consumable nature including, but not limited to: filters, fuses, gaskets, lubricants, and charts;
4) Accessories or parts not provided by GF;
5) 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;
6) Any shipping charges incurred in the replacement part installation or repair;
7) Costs and expenses of regular maintenance and cleaning; and
8) Representations and warranties made by any person or entity other than GF.

ENTIRE WARRANTY, EXCLUSIVE REMEDY AND CONSEQUENTIAL DAMAGES DISCLAIMER

THIS WARRANTY IS GF’S ONLY WARRANTY AND IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED. GF MAKES NO IMPLIED WARRANTIES OF ANY KIND INCLUDING ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

IF ANY MODEL OR SAMPLE WAS SHOWN TO THE CUSTOMER, SUCH MODEL OR SAMPLE WAS USED MERELY TO ILLUSTRATE THE GENERAL TYPE AND QUALITY OF THE PRODUCT AND NOT TO REPRESENT THAT THE PRODUCT WOULD NECESSARILY CONFORM TO THE MODEL OR SAMPLE IN ALL RESPECTS.

THIS WARRANTY IS LIMITED TO THE REPAIR OR REPLACEMENT OF THE DEFECTIVE PARTS. GF SHALL NOT BE LIABLE FOR AND HEREBY DISCLAIMS ANY DIRECT, SPECIAL, INDIRECT, INCIDENTAL, EXEMPLARY OR CONSEQUENTIAL DAMAGES, INCLUDING, BUT NOT LIMITED TO: DAMAGES FOR LOSS OF PROFITS OR INCOME, LOSS OF USE, DOWNTIME, COVER, OR EMPLOYEE OR INDEPENDENT CONTRACTOR WAGES, PAYMENTS AND BENEFITS.

The warranties contained herein contain all the representations and warranties with respect to the subject matter of this document, and supersede all prior negotiations, agreements and understandings with respect thereto. The recipient of this document hereby acknowledges and represents that it has not relied on any representation, assertion, guarantee, warranty, collateral contract or other assurance, except those set out in this document.

For additional information on this Hausted product or this warranty, please contact a GF Customer Service Representative.

NOTES:

1) Additional terms and conditions may apply.
2) Freight claims must be noted on the Bill of Lading and must be made with immediacy. The ICC 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 thirty (30) days of the invoice date.

www.hausted.com
www.grahamfield.com
8 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.

<table>
<thead>
<tr>
<th>Product</th>
<th>Metal Scrap</th>
<th>Cable Scrap</th>
<th>Electronic Scrap</th>
<th>Plastic Recycling or Combustion</th>
</tr>
</thead>
<tbody>
<tr>
<td>4E7</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>4D7</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
</tbody>
</table>

*Info: Lead-acid batteries contained in the controller are recoverable resources and should be recycled.*

KEY TO SYMBOLS
The following symbols are used on Hausted product labels.

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Description</th>
<th>Symbol</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>![Protective Earth]</td>
<td>Protective Earth</td>
<td>![Manufacturer]</td>
<td>Manufacturer</td>
</tr>
<tr>
<td>![Earth Ground]</td>
<td>Earth Ground</td>
<td>![Keep Dry]</td>
<td>Keep Dry</td>
</tr>
<tr>
<td>![General Warning Sign]</td>
<td>General Warning Sign</td>
<td>![Fragile, Handle with Care]</td>
<td>Fragile, Handle with Care</td>
</tr>
<tr>
<td>![CE Mark]</td>
<td>CE Mark</td>
<td>![Electrical and Electronic Equipment]</td>
<td>Electrical and Electronic Equipment</td>
</tr>
<tr>
<td>![ETL]</td>
<td>ETL</td>
<td>![Consult Instructions for Use]</td>
<td>Consult Instructions for Use</td>
</tr>
<tr>
<td>![European Authorized Representative]</td>
<td>European Authorized Representative</td>
<td>![Caution]</td>
<td>Caution</td>
</tr>
<tr>
<td>![Disconnect before Service]</td>
<td>Disconnect before Service</td>
<td>![Foot Crush]</td>
<td>Foot Crush</td>
</tr>
</tbody>
</table>

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9 APPENDIX

9.1 GUIDANCE AND MANUFACTURER’S DECLARATION — ELECTROMAGNETIC EMISSIONS

The Hausted APC Series Models and Surgi-Chairs are intended for use in the electromagnetic environment specified below. The customer or the user of the Hausted APC Series Models and Surgi-Chairs should assure that it is used in such an environment.

<table>
<thead>
<tr>
<th>Emissions Test</th>
<th>Compliance</th>
<th>Electromagnetic Environment — Guidance</th>
</tr>
</thead>
<tbody>
<tr>
<td>RF emissions CISPR 11</td>
<td>Group 1</td>
<td>The Hausted Surgi-Stretchers use RF energy only for its internal function. Therefore, its RF emissions are very low and are not likely to cause any interference in nearby electronic equipment.</td>
</tr>
<tr>
<td>RF emissions CISPR 11</td>
<td>Class A</td>
<td>The Hausted Surgi-Stretchers are suitable for use in all establishments other than domestic and those directly connected to the public low-voltage power supply network that supplies buildings used for domestic purposes.</td>
</tr>
<tr>
<td>Harmonic emissions IEC 61000-3-2</td>
<td>Class A</td>
<td></td>
</tr>
<tr>
<td>Voltage fluctuations/flicker emissions IEC 61000-3-3</td>
<td>Complies</td>
<td></td>
</tr>
</tbody>
</table>

9.2 GUIDANCE AND MANUFACTURER’S DECLARATION — ELECTROMAGNETIC IMMUNITY

The Hausted Surgi-Stretchers are intended for use in the electromagnetic environment specified below. The customer or the user of the Hausted Surgi-Stretchers should assure that it is used in such an environment.

<table>
<thead>
<tr>
<th>Immunity Test</th>
<th>IEC 60601 Test Level</th>
<th>Compliance Level</th>
<th>Electromagnetic Environment — Guidance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Electrostatic Discharge (ESD) IEC 61000-4-2</td>
<td>±6 kV contact ±8 kV</td>
<td>±6 kV contact ±8 kV</td>
<td>Floors should be wood, concrete or ceramic tile. If floors are covered with synthetic material, the relative humidity should be at least 30%.</td>
</tr>
<tr>
<td>Electrical fast transient/burst IEC 61000-4-4</td>
<td>±2 kV for power supply lines ±1 kV for input/output lines</td>
<td>±2 kV for power supply lines ±1 kV for input/output lines</td>
<td>Mains power quality should be that of a typical commercial or hospital environment.</td>
</tr>
<tr>
<td>Surge IEC 61000-4-5</td>
<td>±1 kV line(s) to line(s) ±2 kV line(s) to earth</td>
<td>±1 kV line(s) to line(s) ±2 kV line(s) to earth</td>
<td>Mains power quality should be that of a typical commercial or hospital environment.</td>
</tr>
<tr>
<td>Voltage dips, short interruptions and voltage variations on power supply input lines IEC 61000-4-11</td>
<td>&lt;5 % UT (&gt;95 % dip in UT) for 0,5 cycle 40 % UT (60 % dip in UT) for 5 cycles 70 % UT (30 % dip in UT) for 25 cycles &lt;5 % UT (&gt;95 % dip in UT) for 5 sec</td>
<td>&lt;5 % UT (&gt;95 % dip in UT) for 0,5 cycle 40 % UT (60 % dip in UT) for 5 cycles 70 % UT (30 % dip in UT) for 25 cycles &lt;5 % UT (&gt;95 % dip in UT) for 5 sec</td>
<td>Mains power quality should be that of a typical commercial or hospital environment. If the user of the Hausted Surgi-Stretchers requires continued operation during power mains interruptions, it is recommended that the Hausted Surgi-Stretchers be powered from an uninterrupted power supply or a battery.</td>
</tr>
<tr>
<td>Power frequency (50/60 Hz) magnetic field IEC 61000-4-8</td>
<td>3 A / m</td>
<td>3 A / m</td>
<td>Power frequency magnetic fields should be at levels characteristic of a typical location in a typical commercial or hospital environment.</td>
</tr>
</tbody>
</table>

NOTE: UT is the a.c. mains voltage prior to application of the test level.
GUIDANCE AND MANUFACTURER’S DECLARATION —
ELECTROMAGNETIC IMMUNITY

The Hausted Surgi-Stretchers are intended for use in the electromagnetic environment specified below. The customer or the user of the Hausted Surgi-Stretcher should assure that it is used in such an environment.

<table>
<thead>
<tr>
<th>Immunity Test</th>
<th>IEC 60601 Test Level</th>
<th>Compliance Level</th>
<th>Electromagnetic Environment — Guidance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Conducted RF</td>
<td>IEC 61000-4-6</td>
<td>3 Vrms 150 kHz to 80 MHz</td>
<td>Portable and mobile RF communications equipment should be used no closer to any part of the Hausted Surgi-Stretchers, including cables, than the recommended separation distance calculated from the equation applicable to the frequency of the transmitter. Recommended separation distance $d = 1.2 \sqrt{P}$ where $P$ is the maximum output power rating of the transmitter in watts (W) according to the transmitter manufacturer and $d$ is the recommended separation distance in meters (m). Field strengths from fixed RF transmitters, as determined by an electromagnetic site survey, should be less than the compliance level in each frequency range. Interference may occur in the vicinity of equipment marked with the following symbol:</td>
</tr>
<tr>
<td>Radiated RF</td>
<td>IEC61000-4-3</td>
<td>3 V/m 80 MHz to 2,5 GHz</td>
<td>3 V/m EXIT</td>
</tr>
</tbody>
</table>

**NOTE 1:** At 80 MHz and 800 MHz, the higher frequency range applies.

**NOTE 2:** These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects, and people.

---

*a* Field strengths from fixed transmitters, such as base stations for radio (cellular/cordless) telephones and land mobile radios, amateur radio, AM and FM radio broadcast and TV broadcast cannot be predicted theoretically with accuracy. To assess the electromagnetic environment due to fixed RF transmitters, an electromagnetic site survey should be considered. If the measured field strength in the location in which the Hausted Surgi-Stretchers are used exceeds the applicable RF compliance level above, the Hausted Surgi-Stretchers should be observed to verify normal operation. If abnormal performance is observed, additional measures may be necessary, such as re-orienting or relocation the Hausted Surgi-Stretchers.

*b* Over the frequency range 150 kHz to 80 MHz, field strengths should be less than 3 V/m.
9.3 RECOMMENDED SEPARATION DISTANCES BETWEEN PORTABLE AND MOBILE RF COMMUNICATIONS EQUIPMENT AND HAUSTED SURGI-STRETCHERS

The Hausted Surgi-Stretchers are intended for use in an electromagnetic environment in which radiated RF disturbances are controlled. The customer or the user of the Hausted Surgi-Stretchers can help prevent electromagnetic interference by maintaining a minimum distance between portable and mobile RF communications equipment (transmitters) and the Hausted Surgi-Stretchers as recommended below, according to the maximum output power of the communications equipment.

<table>
<thead>
<tr>
<th>Rated maximum output power of transmitter (W)</th>
<th>Separation distance according to frequency of transmitter (m)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>150 kHz to 80 MHz</td>
</tr>
<tr>
<td></td>
<td>(d = 1.2 \sqrt{P})</td>
</tr>
<tr>
<td>0.01</td>
<td>0.12</td>
</tr>
<tr>
<td>0.1</td>
<td>0.38</td>
</tr>
<tr>
<td>1</td>
<td>1.2</td>
</tr>
<tr>
<td>10</td>
<td>3.8</td>
</tr>
<tr>
<td>100</td>
<td>12</td>
</tr>
</tbody>
</table>

For transmitters rated at a maximum output power not listed above, the recommended separation distance \(d\) in meters (m) can be estimated using the equation applicable to the frequency of the transmitter, where \(P\) is the maximum output power rating of the transmitter in watts (W) according to the transmitter manufacturer.

**NOTE 1:** At 80 MHz and 800 MHz, the higher frequency range applies.

**NOTE 2:** These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects and people.
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