HoverApps®

From HoverTech International

User Manual

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HOVERAPPS®
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HOVERAPPS® User Manual

HOVERTECH International

HOVERAPPS® User Manual

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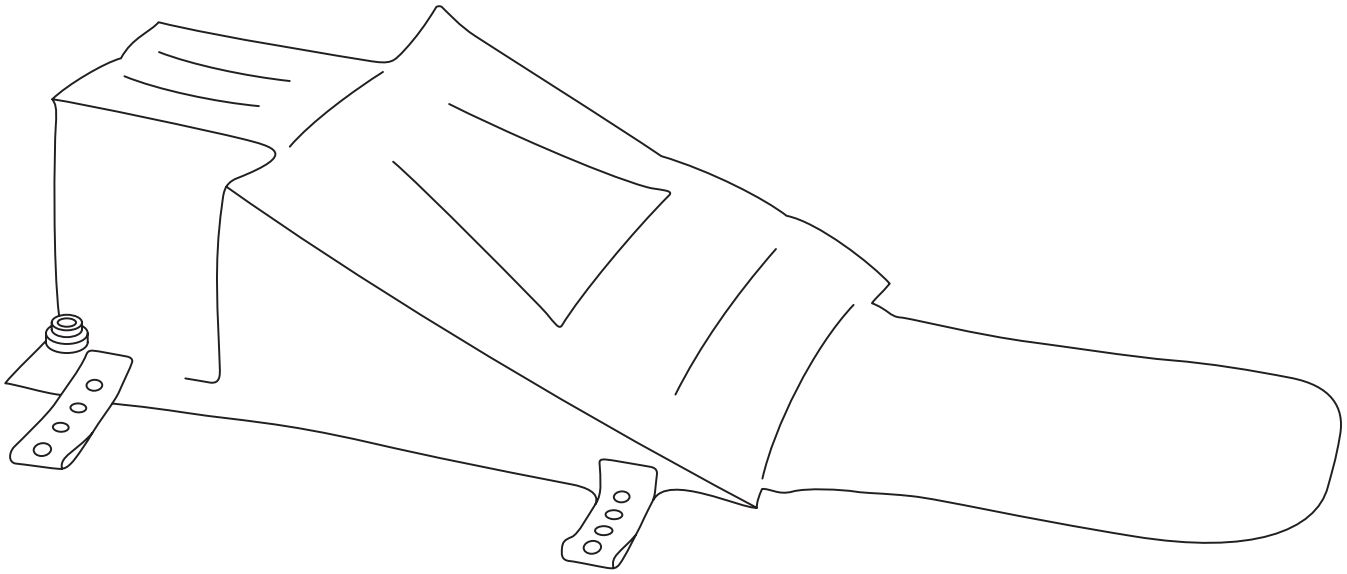
ADJUSTABLE POSITIONING DEVICE



HT-Wedge™ Adjustable Positioning Device

Introduction

Description of the HT-Wedge™ Adjustable Positioning Device

The HT-Wedge is an inflatable positioning device that lifts and positions a patient's head and chest without manual lifting. The dual chamber design of the HT-Wedge features two (2) self-sealing valves that allow the patient's chest and head to be elevated or lowered individually for easy, customizable positioning. A small, variable speed air supply controls the inflation speed for ease of use and patient comfort. The HT-Wedge has a maximum weight bearing capacity of 800 lbs.

Benefits of the HT-Wedge™ Adjustable Positioning Device

- Two chamber design provides maximum adjustability of the head and chest without manual lifting.
- Valves located on each chamber are clearly labeled to facilitate easy identification for head and chest inflation.
- Microbial-controlling nylon minimizes infection risk.
- Rapid inflation and deflation helps maintain efficient workflow.
- Low profile when deflated allows product to be left underneath the patient.

HOVERAPPS® User Manual

HT-Wedge™ Adjustable Positioning Device

Intended Use and Precautions

Indications for Use:
The purpose of the HT-Wedge is to pneumatically lift and position the head and chest of a patient who is lying in the supine position without manual lifting.

Contraindications:
Patients who are experiencing thoracic, cervical or lumbar fractures that are deemed unstable.

Intended Care Settings:
Hospitals, long term or extended care facilities.

Precautions–General:
- Caregiver(s) must ensure the patient is attended and stabilized while on the HT-Wedge.
- Always use a minimum of two caregivers when operating the HT-Wedge.
- Product should only be used by trained personnel.
- Only use attachments and/or accessories that are authorized by HoverTech International.

Precautions–HT-Wedge:
- Ensure the HT-Wedge meets the patient's needs before using.
- A clinical assessment should be carried out by a qualified medical professional before positioning patients using the HT-Wedge.
- Make sure patient is centered on the HT-Wedge before inflating.
- Never leave the patient unattended while using the HT-Wedge.
- Use the HT-Wedge according to instructions.
- Do not launder.

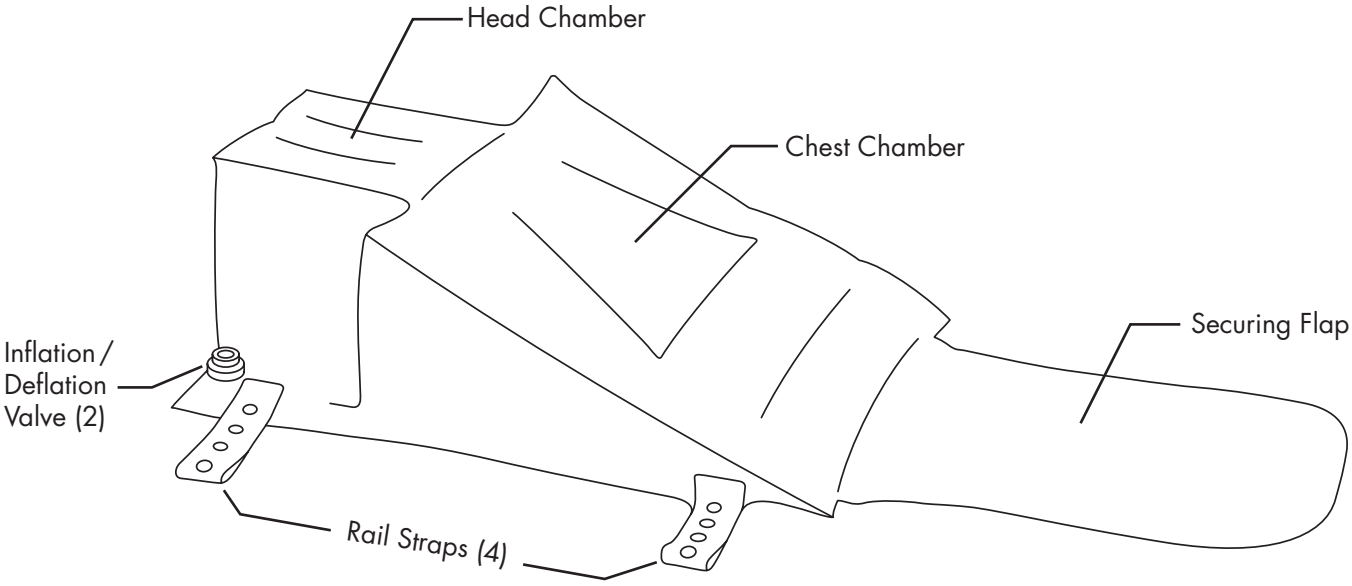
Precautions–HoverTech International Air Supply:
- Route the power cord in a manner to ensure freedom from hazard.
- Avoid blocking the air intakes of the Air Supply.
- Use this product only for its intended purpose as described in this manual.

CAUTION: Avoid electric shock. Do not open Air Supply.

HOVERAPPS® User Manual

HT-Wedge™ Adjustable Positioning Device

Part Identification



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HT-Wedge™ Adjustable Positioning Device

Instructions for Use

1. Place the HT-Wedge on the surface where it is to be used and secure with rail straps by using the appropriate snaps for the width of the table.

2. For head and chest elevation, center patient on the HT-Wedge, with the patient's head close to the top edge of the pillow.

3. To begin inflation, hold the HoverTech HTAIR1200 air supply hose against the head inflation valve. Press the ADJUSTABLE button on the HTAIR1200 keypad to initiate air flow and select the appropriate speed. Partially inflate head pillow. Move hose to chest inflation valve and inflate to desired height. Then, finish inflating head pillow.

ADJUSTABLE
Use for HT-Wedge and HoverApps

4. The firmness can be reduced by pressing the diaphragm in each inflation valve. This will slowly deflate the chamber and allow the firmness to be adjusted.

5. When the procedure is complete, deflate the HT-Wedge by pressing the diaphragm in each inflation valve until both chambers are fully deflated. The HT-Wedge can be re-inflated as necessary.

NEVER LEAVE PATIENT UNATTENDED ON AN INFLATED HT-WEDGE.

HT-Wedge™ Adjustable Positioning Device

Product Specifications / Required Accessories

- Patient Weight Limit: 800lbs. (363 kg)

	HT-Wedge™ Adjustable Positioning Device
Material:	Double-Coated Nylon Twill
Construction:	Heat-Sealed
Width:	22" (56 cm) (Deflated)
Length:	30" (76 cm) (Deflated)

Required Accessories for Use:

HTAIR1200–HoverTech International Air Supply (North American Version)
HTAIR2300–HoverTech International Air Supply (European Version)

All HoverTech International Products are Latex-Free.

HT-Wedge™ Adjustable Positioning Device

Cleaning

Using a germicidal cleaner (phenolic disinfectant, quaternary solution or other intermediate level disinfectant according to facility protocol) and a damp cloth, completely wipe down to disinfect the HT-Wedge. Apply germicidal cleaner directly into hard to reach areas. Let air dry. Do not launder.

Infection Control

Whatever the patient is lying on to keep the surface clean may be placed on top of the HT-Wedge to help keep it clean. If desired, a disposable sheet may be used to cover the HT-Wedge (available for separate purchase).

If the HT-Wedge is used on an isolation patient, the hospital should employ the same protocols/procedures it utilizes for the bed mattress and/or for the linen in that patient room.

Preventive Maintenance

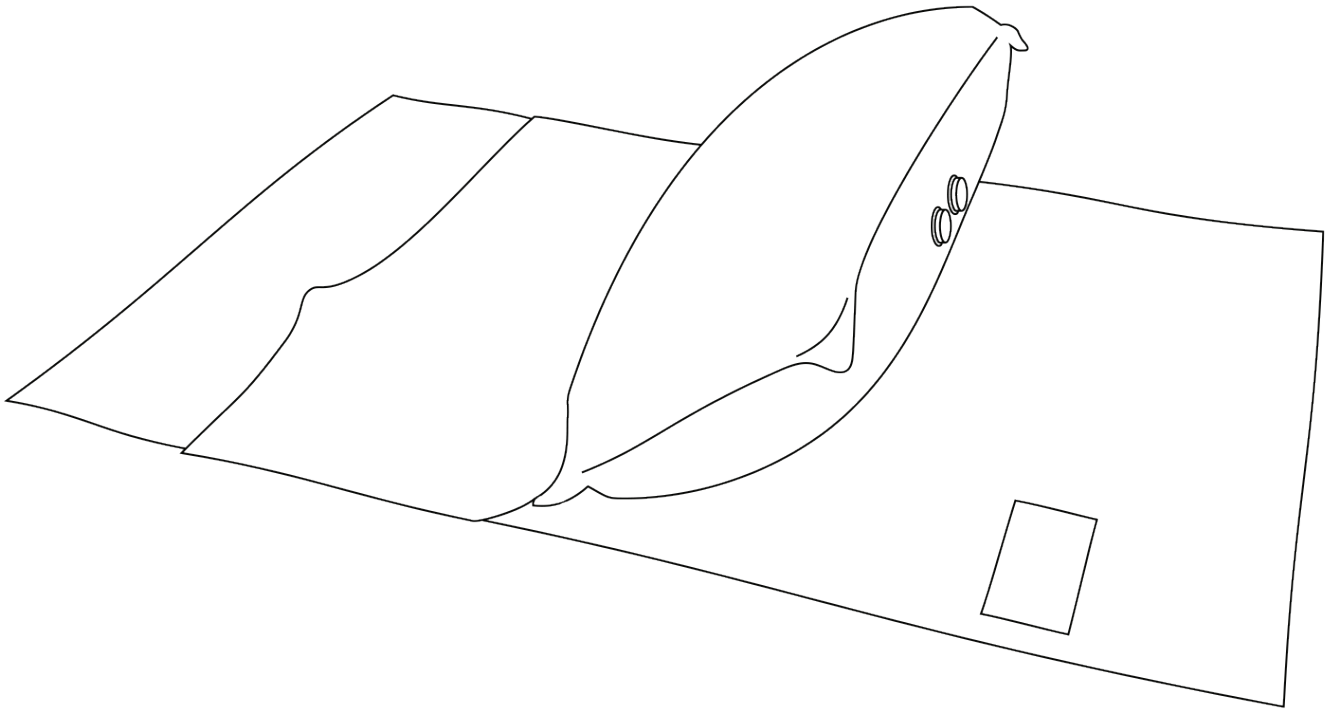
Prior to use, a visual inspection should be performed on the HT-Wedge to ensure that there is no visible damage that would render the HT-Wedge unusable.

The HT-Wedge should be periodically inspected to ensure the following:

- All inflation/deflation valves are self-sealing with no evidence of leakage.
- All rails straps are attached to the HT-Wedge.
- All snaps are intact and operational.
- There are no punctures or tears in the HT-Wedge.

If any damage is found that would cause the HT-Wedge not to function as intended, the HT-Wedge should be removed from use and returned to HoverTech International for repair (see General 3 Returns and Repairs).

HT-ROLLER™
LATERAL TURNING DEVICE



HOVERAPPS® User Manual

HT-Roller™ Lateral Turning Device

Introduction

Description of the HT-Roller™ Lateral Turning Device

The HT-Roller is an inflatable device for lateral turning of patients who are unable or have a reduced capacity to assist in their own turning. The device comprises two chambers that are inflated with a small variable speed air supply. By eliminating the need for manual lifting, the HT-Roller protects both the staff from injury and the patient from friction and shearing associated with traditional repositioning methods.

Benefits of the HT-Roller™ Lateral Turning Device

- Turning chambers provide periodic pressure relief from bony prominences.
- Adjustable positioning facilitates better access for hygiene and wound care applications.
- Quick release valves allow for rapid deflation of turning chambers.
- Breathable fabric prevents moisture build-up and enhances patient comfort.
- Disposable device eliminates the need for reprocessing and reduces potential for cross contamination.
- Variable speed air supply allows caregiver to control inflation for patient safety and comfort.

HT-Roller™ Lateral Turning Device

Intended Use and Precautions

Indications for Use:
The purpose of the HT-Roller is to laterally turn and position a patient who is lying in the supine position without manual lifting.

Contraindications:
Patients who are experiencing thoracic, cervical or lumbar fractures that are deemed unstable.

Intended Care Settings:
Hospitals, long term or extended care facilities.

Precautions–General:
- Caregiver(s) must ensure the patient is attended and stabilized while on the HT-Roller.
- Always use a minimum of two caregivers when operating the HT-Roller.
- Product should only be used by trained personnel.
- Only use attachments and/or accessories that are authorized by HoverTech International.

Precautions–HT-Roller:
- Ensure the HT-Roller meets the patient's needs before using.
- Make sure patient is centered on the HT-Roller before inflating. Reference center line marked on the HT-Roller.
- Do not leave patient unattended during HT-Roller inflation, deflation or when inflated at angles greater than 30 degrees.
- Use the HT-Roller according to instructions.
- Do not launder.

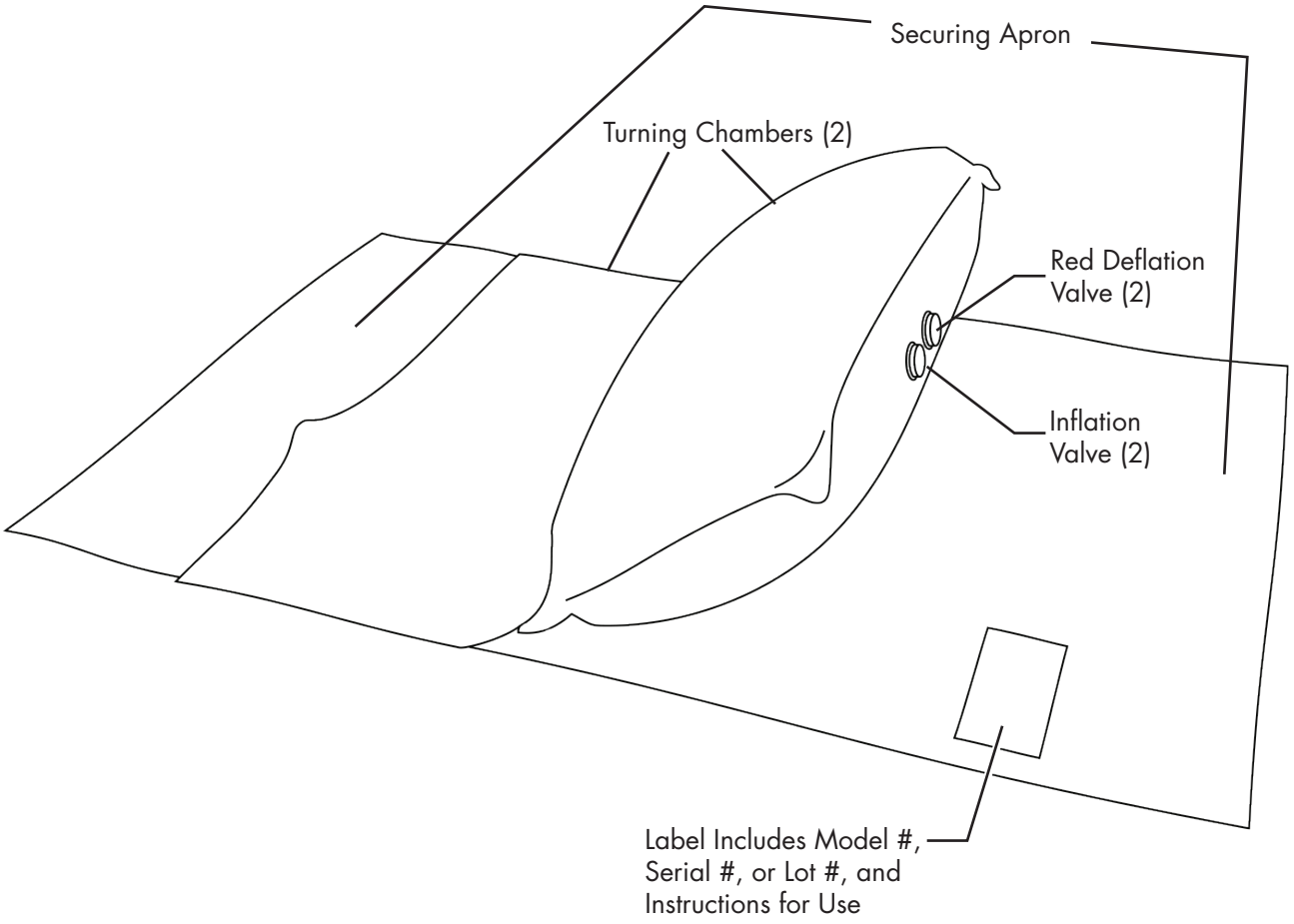
Precautions–HoverTech International Air Supply:
- Route the power cord in a manner to ensure freedom from hazard.
- Avoid blocking the air intakes of the Air Supply.
- Use this product only for its intended purpose as described in this manual.

CAUTION: Avoid electric shock. Do not open Air Supply.

HOVERAPPS® User Manual

HT-Roller™ Lateral Turning Device

Part Identification



HT-Roller™ Lateral Turning Device

Instructions for Use

1. Ensure that the red valves are capped tightly before beginning inflation.

2. Place the deflated HT-Roller on the bed mattress. If the patient is already on the mattress, place the device under the patient by using a log-rolling technique. Ensure all side rails are up. Whatever the patient is lying on to keep the bed mattress clean can be placed on top of the HT-Roller.

3. Tuck the securing apron of the HT-Roller under the bed mattress to keep in place during use.

4. Locate the inflation valve that is positioned on the OPPOSITE side of the turn direction and place the Air Supply hose over the valve. Press the ADJUSTABLE button on the HoverTech HTAIR1200 keypad to initiate air flow. If necessary, press this button up to 3 more times to increase air flow and rate of inflation.

ADJUSTABLE
Use for HT-Wedge and HoverApps

5. When the turn is complete, remove hose from valve and press the STANDBY button on the Air Supply keypad to stop air flow.
   Note: Chamber may not need to be fully inflated to achieve turn.

6. To deflate the HT-Roller, remove the red cap from the deflation valve. This will quickly deflate the positioning device. **Make sure the patient is attended and stabilized during deflation.**

HT-Roller™ Lateral Turning Device

Product Specifications / Required Accessories

- Patient Weight Limit: 600lbs. (272 kg)

	HT-Roller™ Lateral Turning Device
Material:	Non-Woven Polypropylene
Construction:	Heat-Sealed
Width:	Chambers: 44" (112cm) (combined chamber width) Apron: 70" (178cm)
Length:	Chambers: 44" (112cm) Apron: 44" (112cm)

Required Accessories for Use:

HTAIR1200–HoverTech International Air Supply (North American Version)
HTAIR2300–HoverTech International Air Supply (European Version)

All HoverTech International Products are Latex-Free.

Cleaning

Using a germicidal cleaner (phenolic disinfectant, quaternary solution or other intermediate level disinfectant according to facility protocol) and a damp cloth, completely wipe down to disinfect the HT-Roller. Apply germicidal cleaner directly into hard to reach areas. Let air dry. Do not launder.

Infection Control

Whatever the patient is lying on to keep the surface clean may be placed on top of the HT-Roller to help keep it clean. If desired, a disposable sheet may be used to cover the HT-Roller (available for separate purchase).

If the HT-Roller is used on an isolation patient, the hospital should employ the same protocols/procedures it utilizes for the bed mattress and/or for the linen in that patient room.

Preventive Maintenance

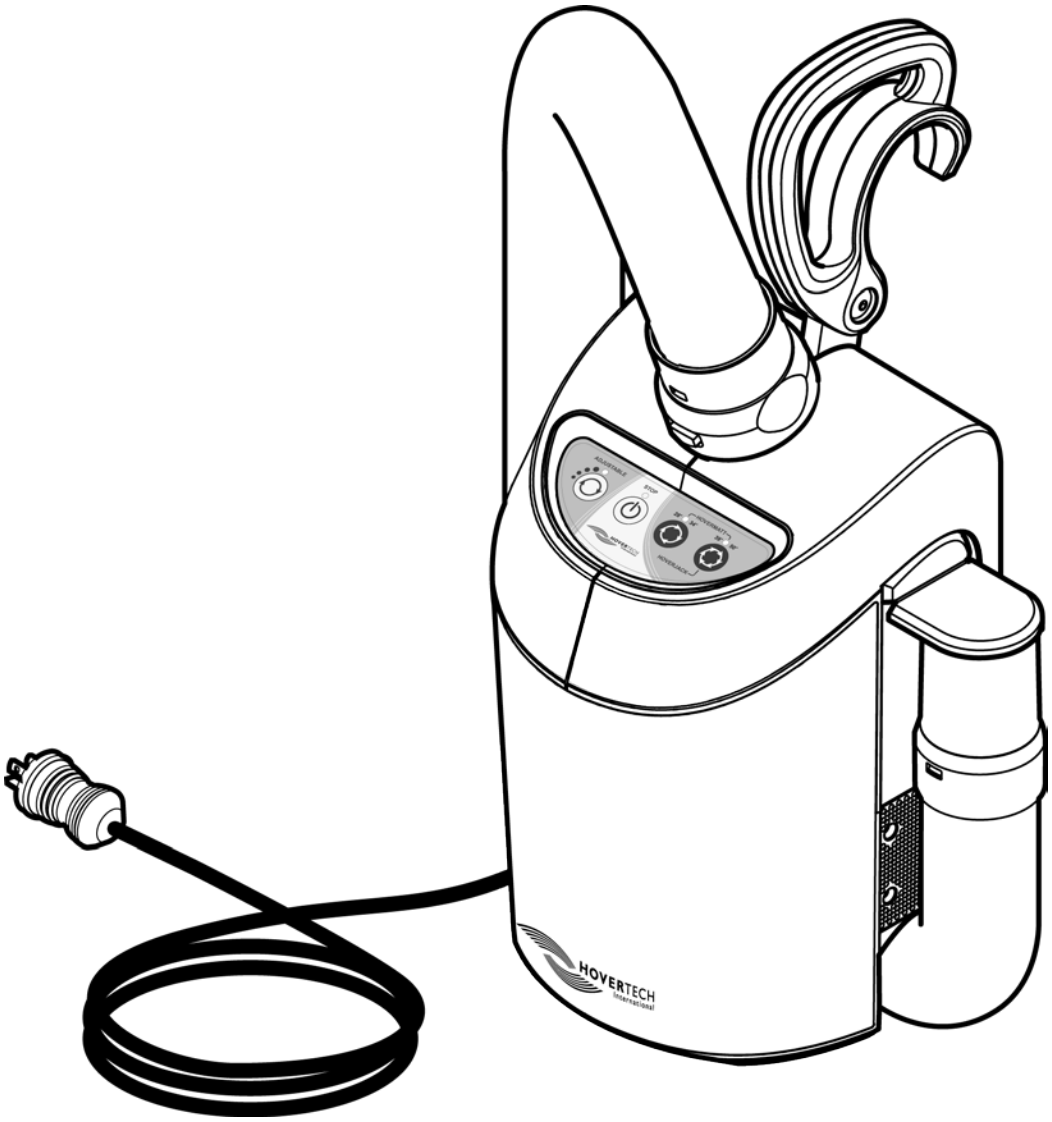
Prior to use, a visual inspection should be performed on the HT-Roller to ensure that there is no visible damage that would render the HT-Roller unusable.

The HT-Roller should be periodically inspected to ensure the following:

- All inflation valves are self-sealing with no evidence of leakage.
- There are no punctures or tears in the HT-Roller.

If any damage is found that would cause the HT-Roller not to function as intended, the HT-Roller should be removed from use.

AIR SUPPLY



NO USER SERVICEABLE PARTS.
Only qualified service personnel shall perform repairs on the HoverTech International Air Supply.

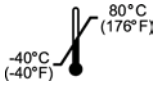
Air Supply

Symbol Reference


Attention! Please read accompanying documents.

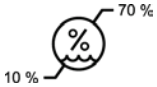

This End Up


Type BF Applied Part



Temperature


Declaration of Conformity to Medical Device Directive



Humidity


Functional Earth (Ground)


Date of Manufacture

Alternating Current

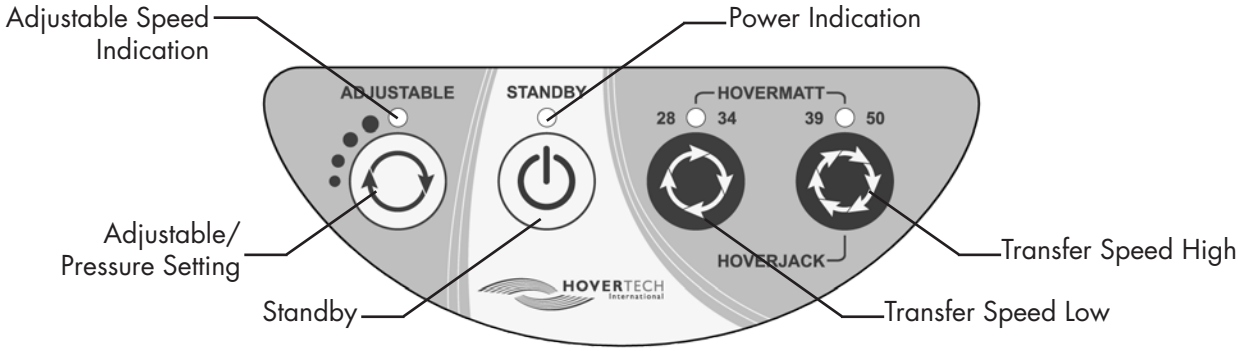

Keep Dry

Underwriters Laboratory Agency Approval

120 V~:
Medical Equipment with respect to electrical shock, fire and mechanical hazards only in accordance with UL 60601-1, IEC/EN 60601-1, CAN/CSA C22.2 No. 601.1

230 V~:
Medical Equipment with respect to electrical shock, fire and mechanical hazards only in accordance with UL 60601-1, IEC 60601-1-2 CAN/CSA C22.2 No. 601.1

Air Supply Keypad Functions



The Adjustable Keypad function has four different settings. Pressing the button once will result in the lowest inflation setting available. A second press of the button increases the air pressure and rate of inflation. Pressing the button a third time will again increase the rate of inflation. A fourth press of the button results in the highest inflation rate and air pressure available for HoverTech Accessories. The STANDBY button may be pressed at any time to cease all air flow.

NOTE: The LED will indicate the inflation speed by the number of flashes (i.e. two flashes equals the second inflation speed).

All of the settings in the Adjustable range are substantially lower than the HoverMatt® and HoverJack® settings. The Adjustable function is not to be used for transferring; it is only for use with HoverApps, which require a lower pressure for slow inflation.

Standby: Used to stop inflation/air flow.

HoverMatt® 28/34: For use with 28" and 34" HoverMatt® Air Transfer Mattresses.

HoverMatt® 39/50 and HoverJack®: For use with 39" and 50" HoverMatt® Air Transfer Mattresses and 32" and 39" HoverJack® Air Patient Lifts.

Air Supply

Product Specifications / Required Accessories

Classification:

- Not for use in the presence of flammable anesthetics or in a hyperbaric chamber or oxygen tent.
- Type of protection against electric shock: CLASS I EQUIPMENT
- Degree of protection against electric shock: TYPE BF APPLIED PART
- Protection against ingress of water: Ordinary (not protected).
- Mode of operation: CONTINUOUS OPERATION
- To remove supply mains, unplug equipment from wall.
- Use Temperature: 50° to 104° F (10° to 40° C)
- Use Humidity: 10% to 70% Non-Condensing
- Storage/Shipping Temperature: –40° to 176° F (–40° to 80° C)
- Storage/Shipping Humidity: 10% to 70% Non-Condensing
- Power Input: 120 V~, 60 Hz, 10 A (North American version)
  230 V~, 50 Hz, 6 A (European Version)
- Air Supply Dimensions: 12.5 x 7 x 7 inches (31.75 x 17.8 x 17.8 cm)
- Air Supply Weight: 11 lbs. (5 kg)
- Air Supply Material: Fire Retardant ABS/Stainless Steel
- Power Cord Length: 15 feet (457 cm)

HoverTech International Air Supply
Part# HTAIR1200 (North American Version)
Part# HTAIR2300 (European Version)

Guidance and Manufacturer's Declaration – Electromagnetic Emissions		
The HoverTech International Air Supply is intended for use in the electromagnetic environment specified below. The customer or the user of the HoverTech International Air Supply should ensure that it is used in such an environment.		
Emissions Test	**Compliance**	**Electromagnetic Environment Guidance**
RF emissions CISPR11	Group 1	The HoverTech International Air Supply uses 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.
RF emissions CISPR11	Class A	The HoverTech International Air Supply is 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.
Harmonic emissions IEC 61000-3-2	Class A	
Voltage fluctuations/ flicker emissions IEC-61000-3-3	Complies	

Air Supply

For HTAIR2300 ONLY

Guidance and Manufacturer's Declaration – Electromagnetic Immunity			
The HoverTech International Air Supply is intended for use in the electromagnetic environment specified below. The customer or the user of the HoverTech International Air Supply should ensure that it is used in such an environment.			
Immunity Test	**IEC 60601 Test Level**	**Compliance Level**	**Electromagnetic Environment-Guidance**
Electrostatic Discharge (ESD) IEC 61000-4-2	± 6 kV contact ± 8 kV air	± 6 kV contact ± 8 kV air	Floors should be wood, concrete or ceramic tile. If floors are covered with synthetic material, the relative humidity should be at least 30%.
Electrical fast Transient/burst IEC 61000-4-4	± 2 kV for power supply lines ± 1 kV for input-output lines	± 2 kV for supply mains ± 1 kV for input/output lines	Mains power quality should be that of a typical commercial or hospital environment.
Surge IEC 61000-4-5	± 1 kV line(s) to line(s) ± 2 kV line(s) to earth	± 1 kV line(s) to line(s) ± 2 kV line(s) to earth	Mains power quality should be that of a typical commercial or hospital environment.
Voltage dips, short interruptions and voltage variations on power supply input lines IEC 61000-4-11	< 5% U_T (> 95% dip in U_T) For 0,5 cycle 40% U_T (60% dip in U_T) For 5 cycles 70% U_T (30% dip in U_T) For 25 cycles < 5% U_T (>95% dip in U_T) for 5 seconds	< 5% U_T (> 95% dip in U_T) For 0,5 cycle 40% U_T (60% dip in U_T) For 5 cycles 70% U_T (30% dip in U_T) For 25 cycles < 5% U_T (>95% dip in U_T) for 5 seconds	Mains power quality should be that of a typical commercial or hospital environment. If the user of the HoverTech International Air Supply requires continued operation during mains interruptions, it is recommended that the HoverTech International Air Supply be powered from an uninterruptible power supply or a battery.
Power Frequency (50/60 Hz) magnetic field IEC 61000-4-8	3 A/m	3 A/m	Power frequency magnetic fields should be at levels characteristic of a typical commercial or hospital environment.
NOTE: U_T is the AC mains voltage prior to application of the test level			

Guidance and Manufacturer's Declaration –Electromagnetic Immunity			
The HoverTech International Air Supply is intended for use in the electromagnetic environment specified below. The customer or the user of the HoverTech International Air Supply should ensure that it is used in such an environment.			
Immunity test	**IEC 60601 test level**	**Compliance level**	**Electromagnetic environment - guidance**
Conducted RF IEC 61000-4-6	3 Vrms 150 kHz to 80 MHz	3 V	Portable and mobile RF communications equipment should be used no closer to any part of the HoverTech International Air Supply, including cables, than the recommended separation distance calculated from the equation applicable to the frequency of the transmitter Recommended separation distance d= 1.2 √P d=1.2 √P 80 to 800 MHz d=2.3 √P 800 MHz to 2.5 GHz 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[a], should be less than the compliance level in each frequency range[b]. Interference may occur in the vicinity of equipment marked with the following symbol: 
Radiated RF IEC 61000-4-3	3 V/m 80 MHz to 2.5 GHz	3 V/m	
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, and electromagnetic site survey should be considered. If the measured field strength in the location in which the device is used exceeds the applicable RF compliance level above, the device should be observed to verify normal operation. If abnormal performance is observed, additional measures may be necessary, such as re-orienting or relocating the device. b Over the frequency range 150 kHz to 80 MHz, the field strengths should be less than 3 V/m.			

Air Supply

For HTAIR2300 ONLY

Recommended separation distances between portable and mobile RF communications equipment and the HoverTech International Air Supply

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

Rated maximum output power of transmitter W	**Separation distance according to frequency of transmitter m**		
	15 kHz to 80 MHz $d=[3.5/V_1]\sqrt{P}$	**80 MHz to 800 MHz** $d=[3.5/V_1]\sqrt{P}$	**800 MHz to 2.5 GHz** $d=[7/E_1]\sqrt{P}$
0.01	0.12	0.12	0.23
0.10	.38	.38	0.73
1	1.2	1.2	2.3
10	3.8	3.8	7.3
100	12	12	23

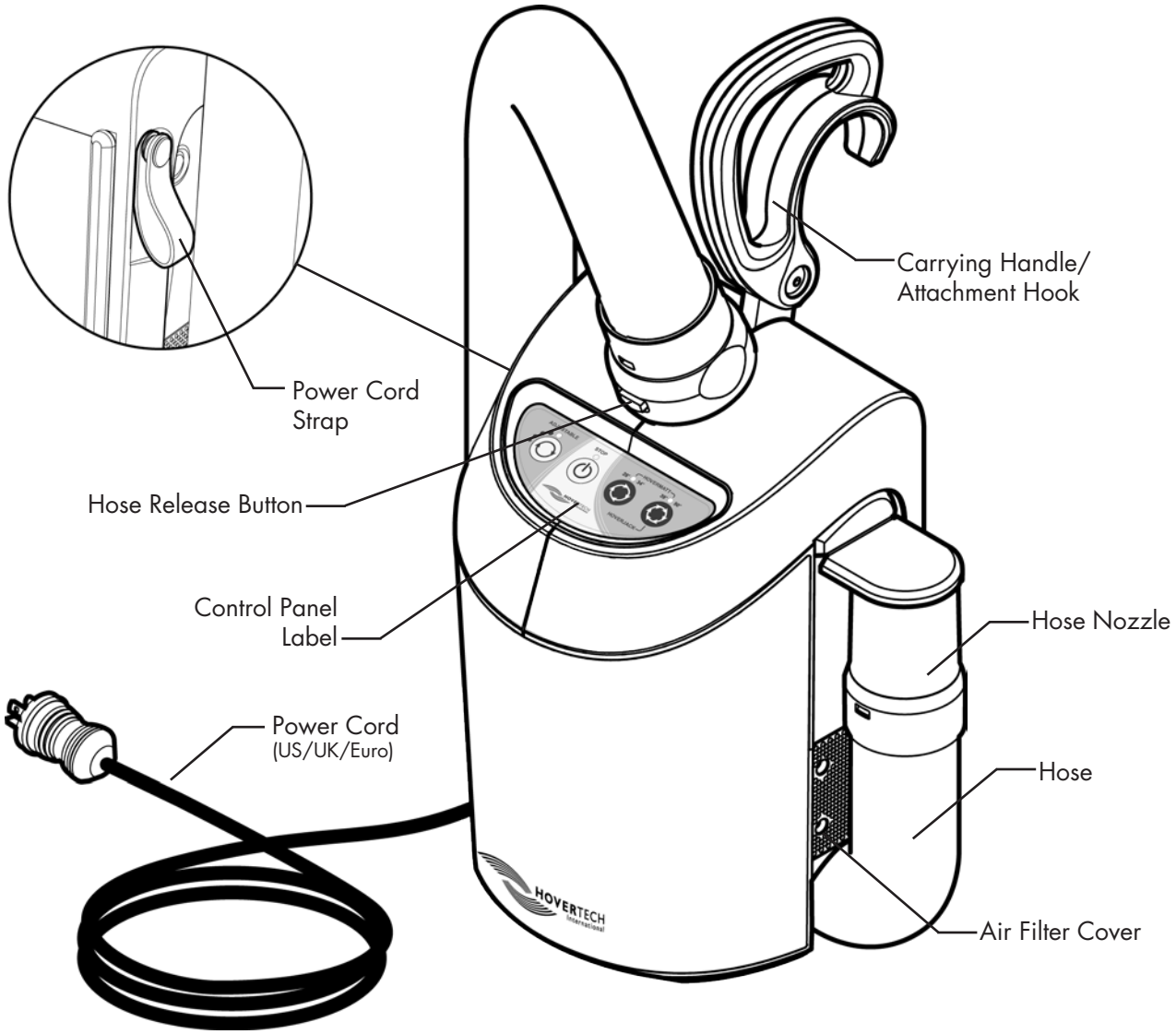
For transmitters rated at a maximum output power not listed above, the recommended separation distance d in meters (m) can be estimated using the equation applicable to the frequency of the transmitter, where P is the maximum output power rating of the transmitter in watts (W) according to the transmitter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

NOTE 1: At 80 MHz and 800 MHz, the separation distance for 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.

Air Supply

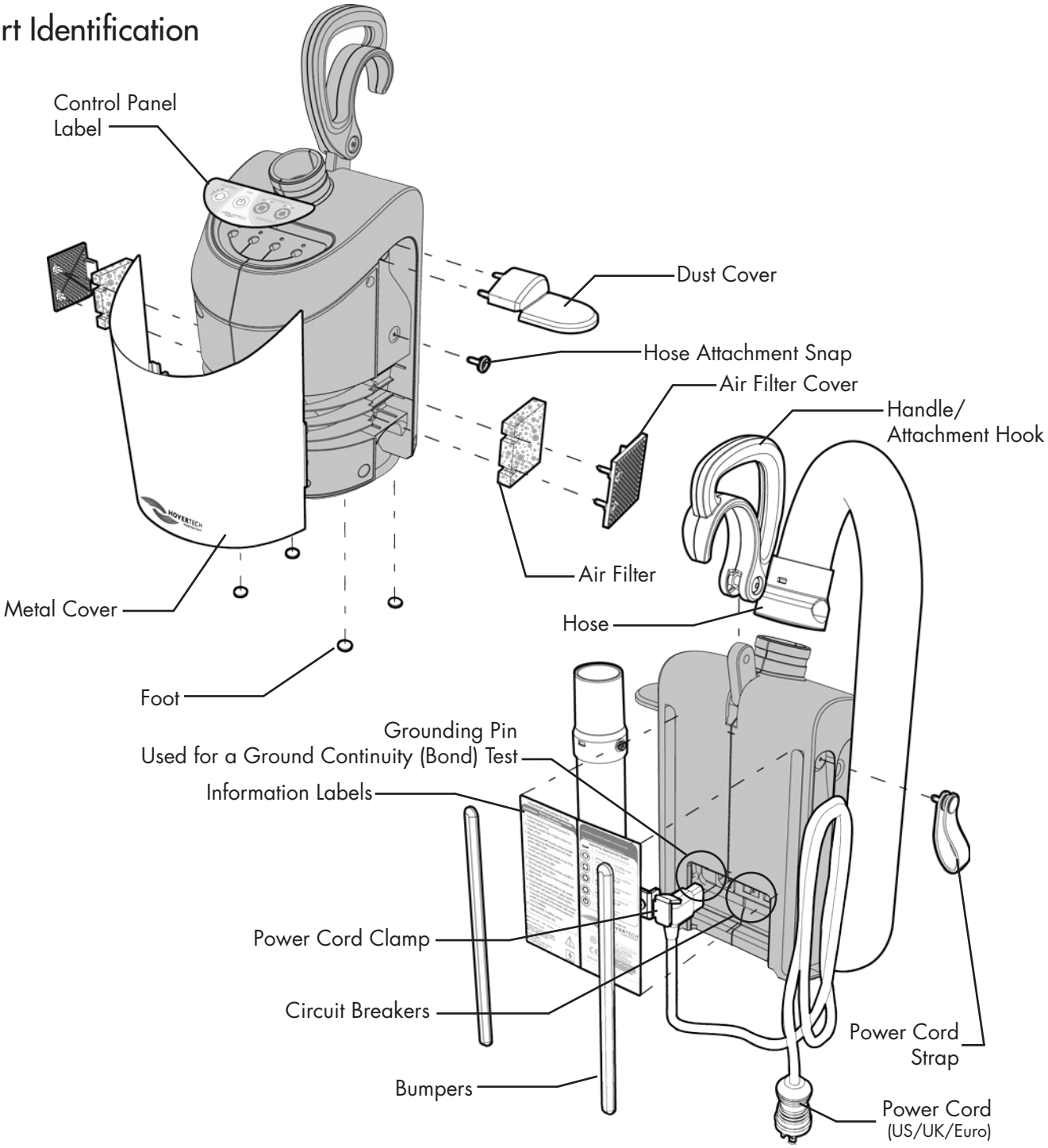
Part Identification



WARNING: The HTAIR is not compatible with DC power supplies. The HTAIR is not for use with the HoverJack Battery Cart.

Air Supply

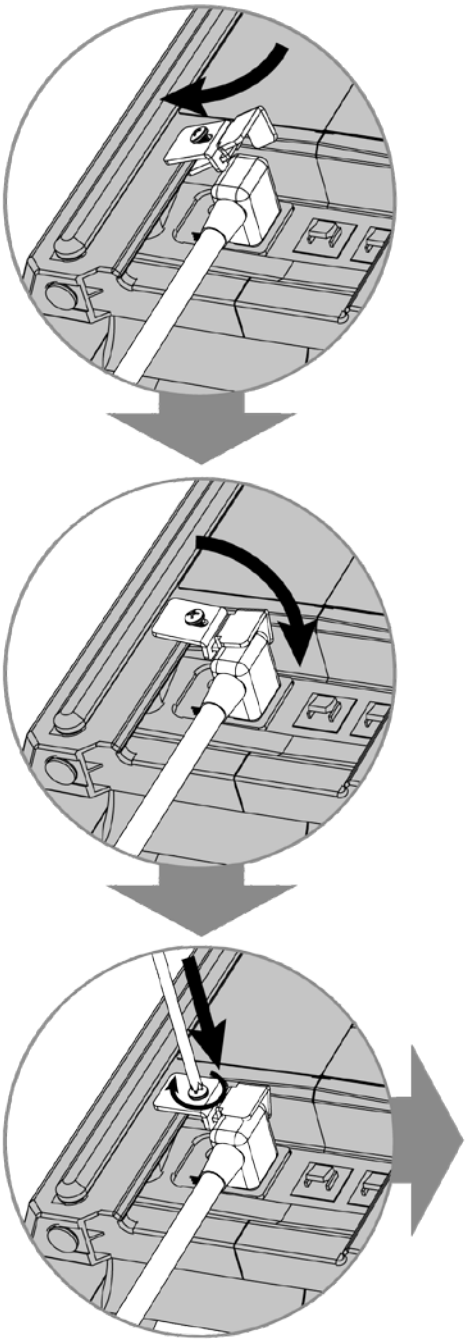
Part Identification

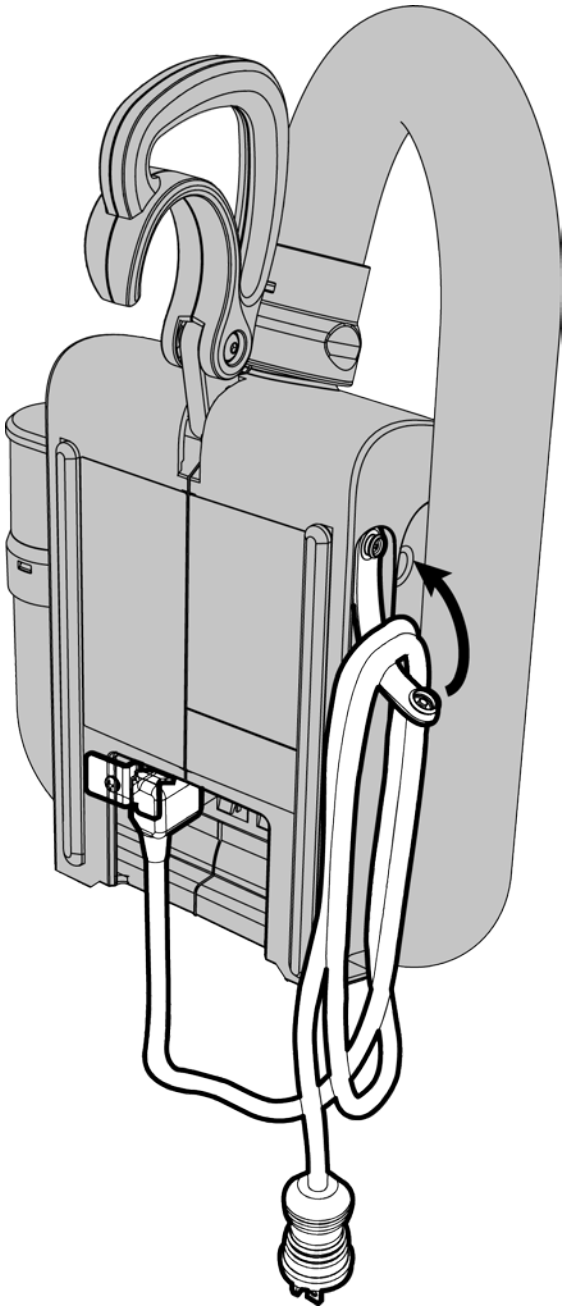


HOVERAPPS® User Manual

Air Supply

Power Cord / Clamp Replacement

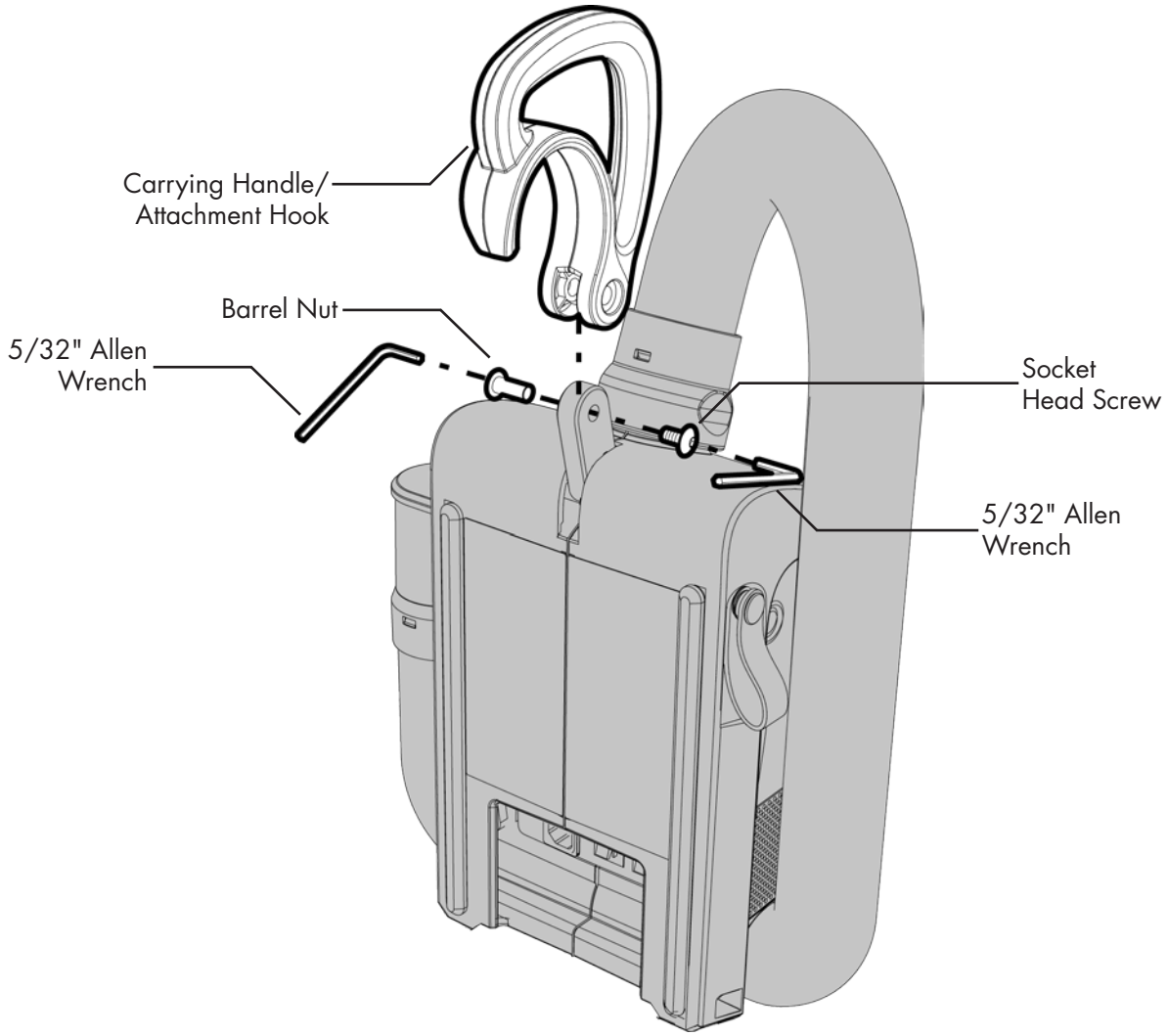




Air Supply

Handle Replacement

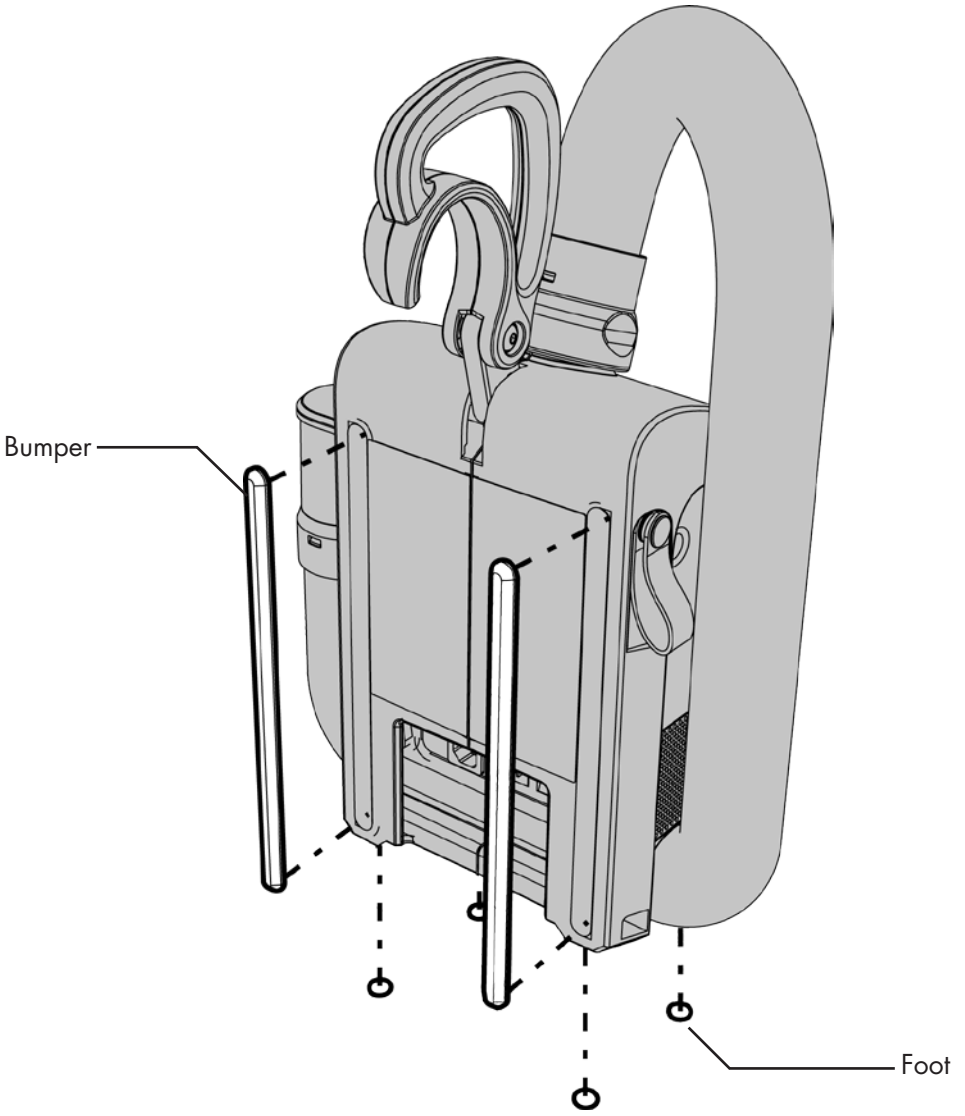
1. Remove the damaged handle by unscrewing the socket head screw from the barrel nut using two 5/32" allen wrenches as shown.
2. Attach the new handle by reversing the process. When tightening the screw be sure that the handle can rotate easily. The screw is treated with thread lock to secure it in place.



Air Supply

Feet or Bumper Replacement

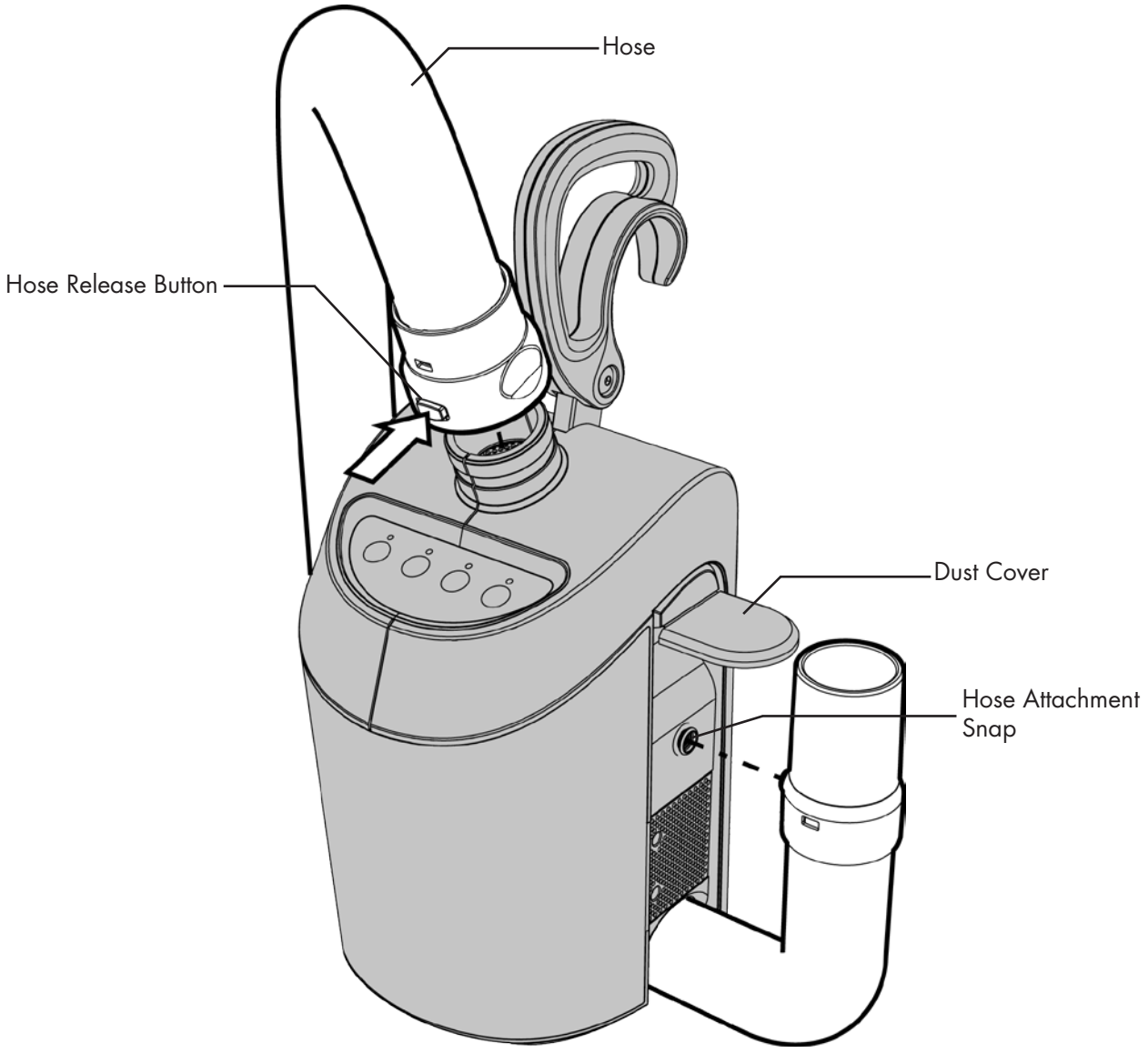
1. The feet and bumpers are held in place by a self-adhesive backing. Use a small, flat bladed screwdriver to pry up an edge and gently remove the foot or bumper.
2. Clean surface thoroughly to remove any excess adhesive that may have been left behind. Apply the new part by removing the backing material and position as shown. Press firmly to ensure adhesion.



Air Supply

Hose Removal

1. Remove the damaged hose by lifting the dust cover slightly and unsnapping the hose from the side of the unit as shown.
2. Push the release button at the top of the unit to remove the hose. Attach the new hose by reversing the process.



Air Supply

Air Filter and Air Filter Cover Replacement

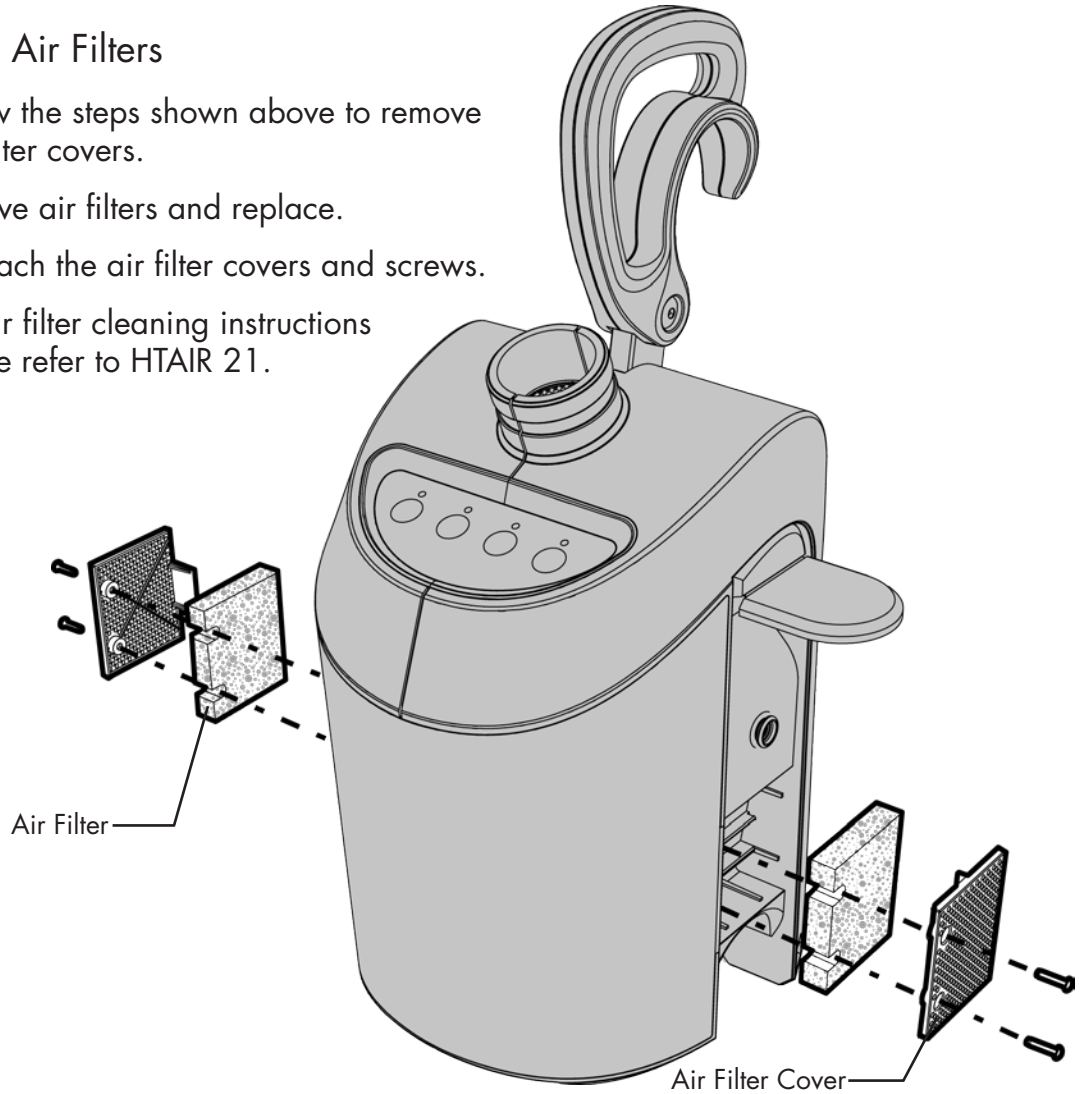
To Remove Air Filter Covers

1. Disconnect hose from unit. (See HTAIR 14)
2. Remove the two phillips head screws on each side to detach the air filter covers.
3. Re-attach the new air filter covers and screws.

To Remove Air Filters

1. Follow the steps shown above to remove air filter covers.
2. Remove air filters and replace.
3. Re-attach the air filter covers and screws.

* For air filter cleaning instructions please refer to HTAIR 21.



Air Supply

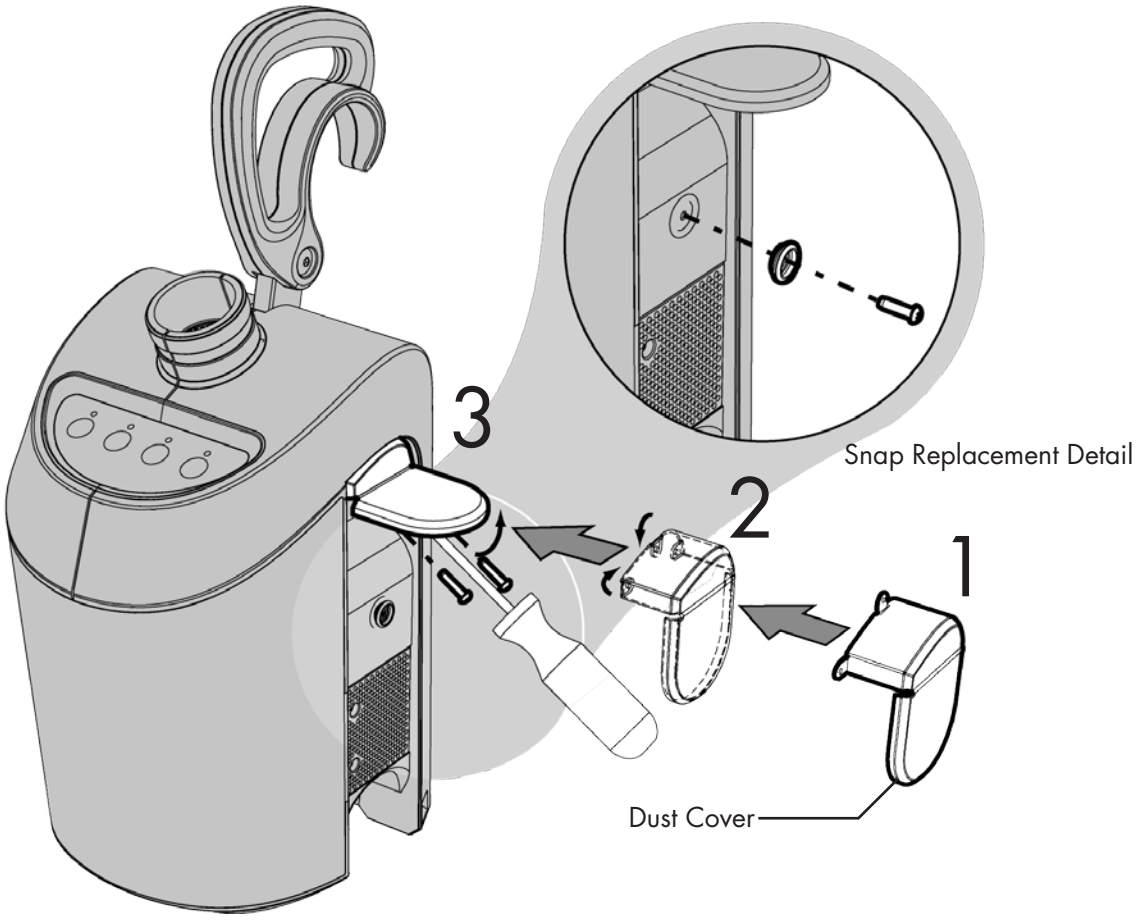
Dust Cover/Hose Attachment Snap Replacement

To Remove Dust Cover

1. Disconnect hose from unit. (See HTAIR 14)
2. Lift the cover "flap" to remove the 3 phillips head screws that attach the dust cover. To replace dust cover, fold in the three flexible tabs. Then insert the screws one at a time starting with the top middle followed by the sides.

To Remove Hose Attachment Snap

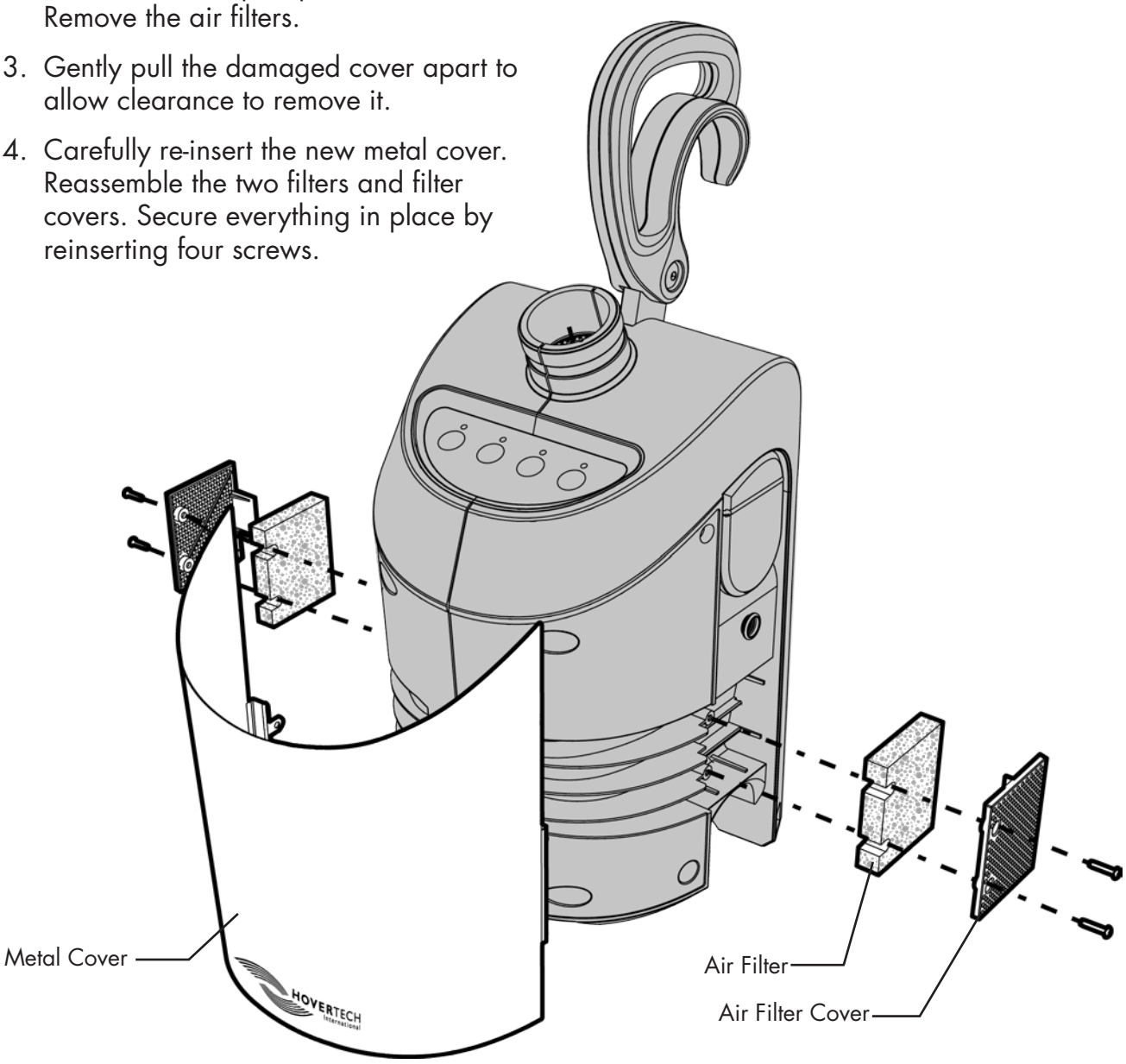
1. Disconnect hose from unit. (See HTAIR 14)
2. Remove the phillips head screw and snap.



Air Supply

Metal Cover Replacement

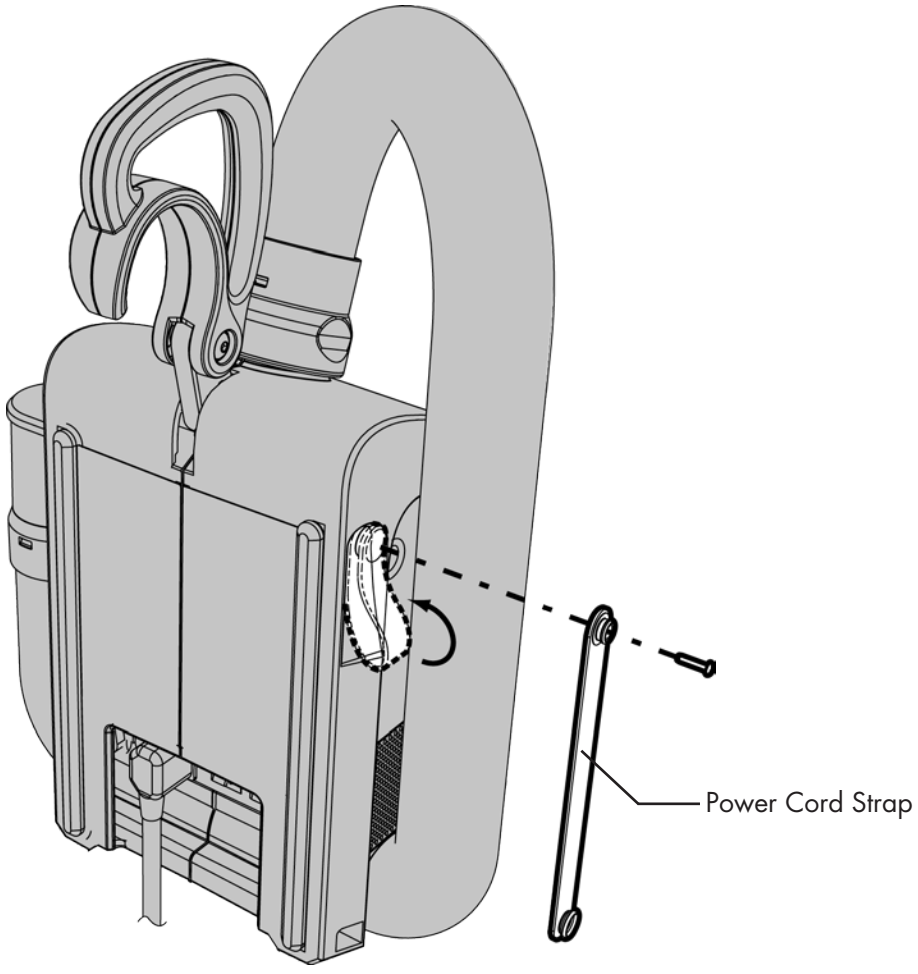
1. Disconnect hose from unit. (See HTAIR 14)
2. Remove the two phillips head screws on each side to detach the air filter covers. Remove the air filters.
3. Gently pull the damaged cover apart to allow clearance to remove it.
4. Carefully re-insert the new metal cover. Reassemble the two filters and filter covers. Secure everything in place by reinserting four screws.



Air Supply

Cord Strap Replacement

1. Unsnap the strap and remove power cord.
2. Detach the damaged cord strap by removing the screw as shown.
   Reattach strap by positioning in place and securing it with the screw provided.



Air Supply

Troubleshooting for HTAIR1200/HTAIR2300

No Indicators (lights)	No Air Flow	No Button Function	Mattress Pressure Low	
X	X	X		Verify AC from wall Check power cord connections at air supply and wall Check circuit breakers on rear of air supply unit
X				Return unit for repair
	X			Return unit for repair
		X		Return unit for repair
			X	Check hose connections at air supply and mattress Check hose for rips/tears Check mattress for rips/tears Verify that air filters are clean

Air Supply

Cleaning and Maintenance

In between patient uses, the Air Supply can be cleaned by wiping down using a damp cloth with soap and water or mild neutral detergent. Dry using a clean, dry cloth or disposable paper towel.

Plastic, fitted hose covers are available.

*Do not spray cleaners or liquids directly on the Air Supply.

NOTE: CHECK YOUR LOCAL/STATE/FEDERAL/INTERNATIONAL GUIDELINES BEFORE DISPOSAL.

Air Supply

Preventive Maintenance

Prior to use, a visual inspection should be performed on the HoverTech International Air Supply to insure the power cord is not frayed or nicked, and that there is no visual damage that would render the Air Supply unusable.

If any damage is found that would cause the Air Supply not to function as intended, the Air Supply should be removed from use and returned to HoverTech International for repair (see General 3 Returns and Repairs).

The Air Supply has air filters on either side of the motor. These filters can be accessed by removing the small screws holding the filter cover in place. Filters should be cleaned by holding under warm running water. Allow to air dry. As preventive maintenance, filter cleaning should be performed monthly.

Infection Control

If the HTAIR1200/2300 is used on an isolation patient, the hospital should employ the same protocols/procedures it utilizes for other equipment used in that patient room.

Air Supply

Component Parts List for HTAIR1200/HTAIR2300

HoverTech Part Number	Description
HTA-AF	Air Filters (sold in pairs)
HTA-AFC	Air Filter Cover with screws (sold in pairs)
HTA-B/F	Bumpers and Feet (sold as a kit)
HTA-CPL	Control Panel Label
HTA-DC	Dust Cover w/ screws (kit)
HTA-H/AH	Handle/Attachment Hook
HTA-HAS	Hose Attachment Snap
HTA-Hose	Hose Assembly
HTA-IL	Information Labels
HTA-MC	Metal Cover w/ screws
HTA-PCord	Power Cord
HTA-PCS	Power Cord Strap with screw
HTA-PCC	Power Cord Clamp

HOVERAPPS® User Manual

General Information

Warranty Statements

The HoverApps and the HoverTech International Air Supplies are warranted to be free from defects in materials and workmanship. Warranty begins on date of in-service by a HoverTech International representative or shipment date.

In the unlikely event that a problem arises as a result of a defect in materials or workmanship, we will promptly replace your item–at our expense and discretion using current models or parts performing the equivalent function–upon receipt of the original item to our repair department. You must pre-notify HoverTech International by phone (800-471-2776). Item is to be insured by you against loss during transportation and must be shipped with transportation and/or broker charges prepaid.

HoverTech International Air Supplies:
In the unlikely event that a problem arises as a result of a defect in materials or workmanship, we will promptly repair your HoverTech International Air Supply or replace it if we feel that it cannot be repaired–at our expense and discretion using current models or parts performing the equivalent function–upon receipt of the original item to our repair department. You must pre-notify HoverTech International by phone (800-471-2776). Item is to be insured by you against loss during transportation and must be shipped with transportation and/or broker charges prepaid. Should any HoverTech International product be returned that is not covered under warranty, there will be a minimum $100 service charge plus shipping costs. Lead time for repairs is approximately 2 weeks. Please refer to the Return and Repairs section of this Manual for return instructions.

This warranty is not an unconditional guarantee for the life of the product. Our warranty does not cover product damage that may result from use contrary to Manufacturer's instructions or specifications, misuse, abuse, tampering, or damage due to mishandling. Warranty specifically does not cover product damage that may result from using an air supply that produces more than 3.5 psi to inflate the HoverApps. Equipment that has been neglected, improperly maintained, repaired or altered by someone other than an authorized representative of Manufacturer, or operated in anyway contrary to the operating instructions, shall void this warranty.

General Information

Warranty Statement (continued)

This warranty does not cover normal "wear and tear". Component parts, particularly any optional equipment, valve caps, their attachments and cords, will show wear with use over time and eventually may need to be refurbished or replaced. This normal type of wear is not covered by our warranty, but we will provide prompt, high quality repair service and parts at a nominal cost.

HoverTech International's liability under this warranty and on any claim of any kind for any loss or damage arising out of, connected with, or resulting from the design, manufacture, sale, delivery, installation, repair or operation of its products, whether in contract or tort, including negligence, shall not exceed the purchase price paid for the product and upon expiration of the applicable warranty period, all such liability terminates. The remedies which this warranty provides are exclusive and HoverTech International shall not be liable for any incidental or consequential damages.

There are no warranties, expressed or implied, which extend beyond this warranty statement. The provisions of these warranty clauses are in lieu of all other warranties, expressed or implied, and of all other obligations or liabilities on HoverTech International's part and neither assumes nor authorizes any other person to assume for HoverTech International any other liability in connection with Manufacturer sale or lease of said products. HoverTech International makes no warranty of merchantability or fitness for a particular purpose. There is no warranty that the goods will be fit for a particular purpose. By accepting the goods, the buyer acknowledges that buyer has determined the goods are suitable for the buyer's purposes.

MANUFACTURER'S SPECIFICATIONS ARE SUBJECT TO CHANGE.

General Information

Returns and Repairs

All products being returned to HoverTech International must have a Return Goods Authorization Number issued from the company. Please call 800-471-2776 for an RGA #. Any products returned without the necessary RGA # may cause a delay in the repair time. If the product is not covered under warranty, a minimum charge of $100 will be assessed for each repair. Should a repair charge be assessed, HoverTech International will notify the facility and a purchase order for the repair will need to be issued before the repair can be completed. Lead-time for repairs is approximately 2 weeks.

All products should be sent to:

HoverTech International
513 South Clewell St.
Bethlehem, PA 18015
Attn: Repair Dept./RGA #_____
Phone: 800-471-2776
Fax: 610-694-9601

HOVERAPPS® User Manual

HOVERTECH International

HoverTech International
513 South Clewell St.
Bethlehem, PA 18015
Phone: 800-471-2776
www.HoverMatt.com