



USER MANUAL

DC Series Elevating Autopsy Carts DC000, DC100, DC300, DC800 and DC850



Rev 10-4-17 ©

www.mopec.com

Serial # : _____

Install date : ____ / ____ / ____

©



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UNPACKING

- 1) Carefully inspect the exterior of the shipping container before opening. If the crate is damaged and the product has sustained damage, then immediately contact Mopec and the freight carrier. **Never discard the shipping container even if it is damaged beyond recognition.**
- 2) Have the delivery driver note any suspected damage on the Bill of Lading and sign it. Mopec will help assist in filing a claim for product repair and/or replacement.
- 3) Carefully open the containers and inspect the equipment for concealed damage. If visible damage is noticed (i.e. broken welds, dented stainless, scratches, etc.) follow through as noted above. Do not discard the shipping material. They are important in settling claims.

CAUTION: There are loose components in the packaging of your product. Be very careful in examining the packaging material as it may contain installation parts and/or product components.

INSPECTION

- 1) After carefully unpacking your Mopec Cart please inspect the items in the list below prior to installing the unit. The cart should be thoroughly checked for loose screws, defects, or damage that may have occurred during shipping or packaging.

INTRODUCTION

Thank you for your recent purchase of your Mopec laboratory equipment. It is our goal to make Mopec your primary source in providing the top quality lab products you may need.

We intend on keeping our Mopec family growing and happy. Servicing pathology and the associated professions is our primary focus. Thank you for allowing the Mopec solution work for you.

With increased safety, efficiency and stability, the DC Series makes it easier for staff to transport heavier cadavers. The DC Series can transport up to 700 lbs!

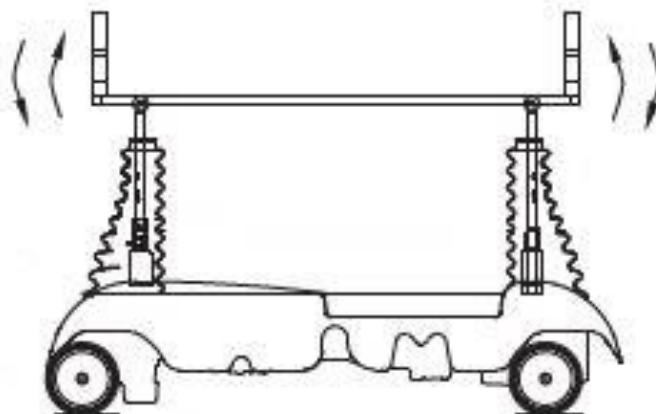
- **Minimizes Back Strain:** The DC Series powerful pedal activated hydraulic system allows tray to be easily and quickly elevated to the height of the bed.
- **Discreet:** The DC 100 and DC300 optional form fitting, reinforced opaque cover over a sturdy lightweight aluminum frame ensures the utmost in discretion and consideration for all hospital personnel. Special rugged bumpers provide heavy-duty impact resistance.
- **Easy to Navigate:** The DC Series Total Lock wheel locking system makes it easy to securely lock the wheels in place for cadaver transfer. Lock the wheels in parallel alignment for easy steering through crowded halls and elevators.
Wider body platform makes dealing with heavier bodies easier, yet the JA600 cart easily passes through doors and hallways. Contoured perimeter edges ensure retention and control of fluids.

Moving the Cadaver from the Hospital Bed to the Transporting Cart Has Never Been Easier

Dual side mounted foot controls allow the technician to effortlessly elevate the transfer tray to the height of the bed without bending. Specially designed contoured edging makes transferring the body from the hospital bed to the DC Series more efficient. The Hydraulic Cadaver Carrier is a discreet way of moving a deceased patient from the hospital room to the morgue or holding area. The Autopsy cart and also be utilized as a carrier comes in two models to choose from for transporting with the optional false frame.

This autopsy cart/table is used in conjunction with the wall mounted autopsy sink or as a simple viewing stretcher. The cart elevates and / or tilts at both ends and is capable of a variety of positions. Dual side mounted foot controls allow for an effortless elevating on either end. Dual locking levers lock all wheels simultaneously from either end. The tops are removable so high volume storage racks can be utilized. Removal can be accomplished with either a motorized or a manual fork type lift.

- **DC000 Autopsy Cart Frame**



- **DC100 Autopsy Cart W/Top (Stainless Steel)** – Heavy- duty stainless construction. (DC000 + GA100 = DC100)
- **DC200 Autopsy Cart W/Top (Poly Inner Liner)** – Mopec’s X-Ray autopsy cart top is constructed with a solid structural stainless steel frame and a unique polyethylene insert that can be x-rayed through with virtually no shadowing. (DC000 + GA200 = DC200)
- **DC300 Autopsy Cart W/Top (Inner Trough)** – Heavy-Duty stainless steel construction with inner drain trough. (DC000 + GA300 = DC300)
- **DC800 Autopsy Cart W/Top (Inner Trough)** – Heavy-Duty stainless steel construction with inner drain trough. (DC000 + GA300 = DC300)
- **DC850 Autopsy Cart W/Top (Inner Trough)** – Heavy-Duty stainless steel construction with inner drain trough. (DC000 + GA300 = DC300)

FEATURES

Cart Upper frame All Stainless Steel Construction.

Foot Controls: Dual side-mounted and the head end of the cart.

The chassis is constructed of powder coated steel frame with a high impact PVC shroud with twin pedestal hydraulics.

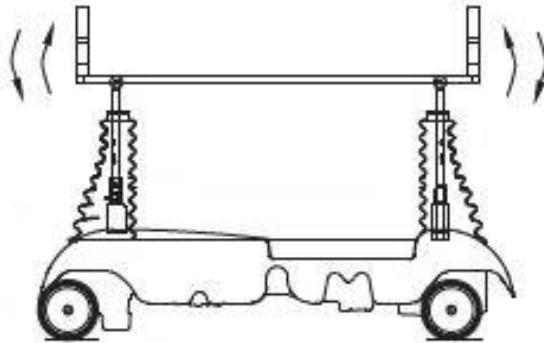
Casters: Heavy-duty 8" diameter with locking, steer and free mechanism.

Welding: TIG type welding utilizing only stainless steel as a filler media. All welds fillets are approximately ¼" diameter. All welds are brushed clean removing any welds burns and burrs for a clean sanitary application.

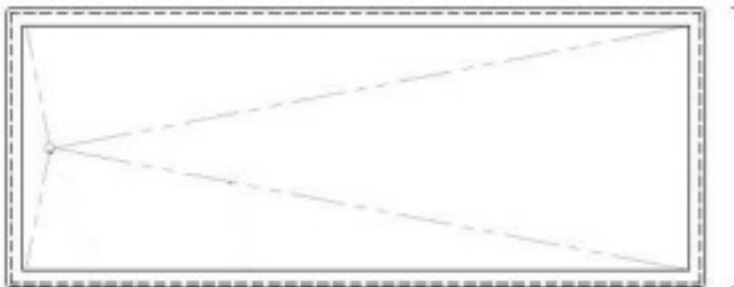
CAPACITY	700 LBS
LENGTH	80 ½ INCHES
WIDTH	30 ½ INCHES
HEIGHT (LOWEST POSITION)	23 ½ INCHES
HEIGHT (HIGHEST POSITION)	36 1/2 INCHES

The Autopsy Cart/ Table fully lowered measures 32".

The Autopsy Cart/ Table fully elevated measures 45 ¾"



Removable Cart Top: GA100 Fabricated of 14 gauge 304 stainless steel with #4 satin finish. The top is recessed and dimpled toward the drain hole. A drain plug on a chain is provided. All exposed welds are ground smooth and grained to match a #4 satin finish. Top dimensions are 80.5" x 32" with a 1 ½" profile and a return flange along a 2" ledge around the full perimeter.

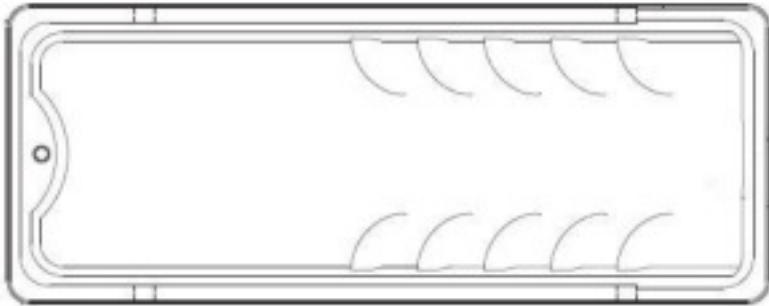


Removable Cart Top: GA300 Fabricated of 14 gauge 304 stainless steel with #4 satin finish. The top is elevated with a trough around the body platform and dimpled toward the drain hole. A drain plug on a chain is provided. All exposed welds are ground smooth and grained to match a #4 satin finish. Top dimensions are 80.5" x 32" with a 1 1/2" profile and a return flange along a 2" ledge around the full perimeter.



Removable Cart Top: GA800 Heavy-Duty Blue Vacuum Formed construction with inner drain trough. Includes Plug and Chain. Top Dimensions are 82.10" x 32.25"

Removable Cart Top: GA850 Heavy-Duty Beige Vacuum Formed construction with inner drain trough. Includes Plug and Chain. Top Dimensions are 82.10" x 32.25"



Option

Light Weight Aluminum False Frame: GA110 Aluminum false frame to cover remains with a opaque cover when transporting. The false frame is for the DA100 and DA300 carts only. The cover is included with the false frame



OPERATION

1. MOVING THE CADAVER FROM THE HOSPITAL BED TO THE TRANSPORT CART HAS NEVER BEEN EASIER:

Dual side-mounted foot controls allow the technician to effortlessly elevate the transfer tray to the height of the bed without stooping or bending.

- *Specially designed for transferring the body from the hospital bed to the morgue effective and less handling.*

2. TRANSPORTING WITH CONFIDENCE, SAFETY, AND DISCRETION:

- *Total-Lock wheel locking and aligning mechanisms along with heavy-duty 8-inch diameter casters makes pushing and steering the DC Series easy and constantly in control.*
- *The DC Series form-fitting, opaque cover over a sturdy stainless steel frame ensures the utmost in discretion and consideration for the staff, family, and hospital visitors. Special rugged bumpers provide heavy-duty impact resistance.*

3. LOADED WITH PRACTICAL FEATURES:

- *Wider body platform makes dealing with heavier bodies easier, yet the cart easily passes through doors and hallways.*
- *Contoured perimeter edges ensure retention and control of fluids.*

NOTE: The hydraulics should not be used until the cart is at room temperature if stored in a cooler or location that is not consistent with the operating temperature of the environment.

CLEANING AND MAINTENANCE

DISINFECTING AND CLEANING SURFACES

All stainless steel surfaces can be cleaned with soap and water, which will remove debris.

The stainless steel surfaces can be disinfected with a non-caustic disinfectant. We suggest using BE045 PathCloud or BE047 Bench Wipe for cleaning purposes. We recommend you **DO NOT USE** a bleach solution to clean your unit, bleach will eventually erode stainless steel if not thoroughly rinsed. **The use of chlorine bleach will VOID THE STAINLESS STEEL WARRANTY**

During the cleaning we suggest wiping the surface in the same direction as the satin finish which will help elevate dirt from the grain finish.

A soft cloth soaked with warm water and a facility-approved general cleaning soap/detergent solution.

Failure to use cleaning and disinfectant products in accordance with the manufacturer's instructions could cause equipment damage.

Wipe down all surfaces with a facility-approved disinfectant, used in accordance with the manufacturer's instructions. Give special attention to high touch areas

Only facility-authorized persons should service Hill-Rom® Stretchers. Service by unauthorized persons could cause personal injury or equipment damage.

Failure to use cleaning and disinfectant products in accordance with the manufacturer's instructions could cause equipment damage.

Use these to clean the stretcher:

- A soft cloth soaked with warm water and a facility-approved general cleaning soap/detergent solution. Make sure the cloth is not so wet as to cause the cleaning solution to pool or flood on the mattress or other stretcher components.

- A soft brush to remove stains and resistant soil. Do not use harsh or abrasive cleansers, solvents, or scouring pads.

4. Clean the stretcher. Give special attention to these areas:

- Stretcher frame and, if installed, the optional integrated oxygen tank storage system

- Casters

- All other components

Failure to use cleaning and disinfectant products in accordance with the manufacturer's instructions could cause equipment damage.

Wipe down all surfaces with a facility-approved disinfectant, used in accordance with the manufacturer's instructions. Give special attention to high touch areas

CAUTION: Do not exceed 1750 psi (12066 kPa) during the spray wash. Equipment damage could occur.

CAUTION: Do not directly spray the hydraulic cylinders. Equipment damage could occur

The stretcher can be spray washed as necessary. Use a **maximum** nozzle pressure of 1750 psi (12066 kPa) at 24" (61 cm). **Do not** use a pencil point spray. The temperature of a spray wash that is water only should not be more than 180°F (82°C). The temperature of a spray wash that contains detergent or solvents (**no bleach**) should not be more than 120°F (50°C). **Do not** spray under the base shroud. After the spray wash, prepare and paint over any exposed or chipped steel parts or oxidized areas

The optional opaque covers Standard White Canvas cadaver covers can be machine washed. The cover should be dried without over drying the cover

The Heavy Duty Vinyl covers are to be washed with a sponge and detergent. They cannot be machine laundered.

STAINLESS STEEL CARE AND MAINTENANCE

To maintain your stainless steel product, follow these four steps:

1) **Never, ever use wire brushes, Brillo, steel wool or abrasive cleansers (like Ajax or Comet).** If something needs to be aggressively cleaned only use a Scotch-brite pad or similar product and only scour with the "grain" of the stainless. As an example, please reference the photo on page 2 of this document. It is clear that a very abrasive product was used in an area on the unit and that did not follow the grain of the stainless. The effects of this scratching may diminish over time with proper care but the effects of this scouring are obvious. (The use of the Scotch-brite Pad following the grain over time may help scratches such as this). Depending on the surface finish of your stainless steel, abrasive cleaners can cause scratching. Duller finishes probably won't show scratching as much as mirror or highly polished finishes. When in doubt, test in a hidden spot, and also work from the least risky type of cleaning, (i.e. water) to the heavy duty stuff.

Do not use cleaners containing chlorine. While it may be second nature to bleach everything, stainless steel and chlorine do not mix well. Do not use bleach when cleaning stainless steel. Do not allow bleach or bleach water to sit for long periods. Bleach can eventually cause staining and pitting. Bleach stains are removed with stainless steel cleaning polish.

2) **Keep the surface clean of grime, tissue and particulates.** This can be accomplished by using the "Water Hand Spray Rinse" and use of cleaning products.

3) **Rinse the surface after using disinfectant.** In Pathology and other medical areas the act of disinfecting is desired. There are a number of ways to do this including using Mopec's Bench Spray & Wipe Disinfectant. Labs use any number of different products including 10% bleach or other disinfectant sprays and wipes. For the most part, each and every one of these has high salt contents and lower PH levels to aid with disinfection. Most disinfectants must be followed up with a water rinse to remove the salts that remain after these products dry. We advise to always follow up a disinfection cleaning with a thorough rinse of water. We advise not to use diluted bleach, if you must; we stress the importance of a thorough rinse of water after use. If not rinsed properly, these salts can become visible after the disinfectant dries. They can appear with a whitish characteristic or contain light lines of white with a grainy feel when you wipe your hand across the work surface. If these residues are not removed with a thorough water rinse and wipe down they will accumulate and eventually degrade the appearance and integrity of your stainless surface. Rust is a long term possibility if salts are allowed to remain on the work surfaces over time. Gritty, dirty water or residue from cleaning solutions left on a stainless steel surface can stain or damage the finish.

4) **All stainless steel products should be protected by a polish.** As a prime example before any product leaves Mopec it is coated with WD-40 as a protecting coating for the stainless. Mopec offers a Stainless Steel Cleaner and Polish in both wipe and spray. These Mopec products will not only deep clean your stainless but will also protect their finish from chemical, low PH and salt and keep the finish looking like new.

Decal

Mopec advises that if the technicians are not taking the proper precautions when using the Decal solution the possibility of two things will occur, a brown or rust ring where the Decal resides along with a milky white substance on the surface. (As an example, reference the below photos to see the rust rings.) Decal is very harsh, even the fumes can and will cause staining on stainless steel. One thing that you might want to consider doing is to place the Decal container you currently use inside a plastic base that will help catch drips that might occur. Clean and rinse your station after every use of Decal solution.

Rust

Rust can and will occur on stainless if it is not maintained properly. The most common cause of rust is from using metal or stainless racks that are not made of 304 stainless. This is referred to as "transfer rust". Leaving of salts from cleaners or disinfectants can and will lead to possible rust areas in the long term. Always rinse all disinfectants before they dry. Decal solutions and even fumes are very aggressive and can cause rust if not cleaned up and used properly around stainless. Formalin use has not been shown to cause rust in any way.

Conclusions & Suggestions

We are confident and can assure you that if you institute the suggestions detailed above that your Mopec Grossing station will look as it did the day it arrived.

Do not assume it's the cleaner. If you do have some spotting or staining, and you've followed all of the suggestions, it may not be the cleaner. Water, especially hard water, can leave spotting and staining on stainless steel surfaces. Hard water can leave mineral deposits, resulting in whitish-colored spots and streaks. Remove hard water stains with vinegar or with stainless steel cleaning polish. Prevent hard water stains by towel-drying after every wash. Do not allow soaps and cleaners to dry on surfaces. The chemicals in many soaps and cleaners can cause staining. Never use corrosive cleaners such as mineral spirits. Use stainless steel cleaning polish and a non-abrasive scrub pad to remove dried cleaner stains. Baking soda mixed with liquid dish soap can make a good paste to gently rub on stains. Be sure to rinse the stainless steel surface thoroughly, and towel dry. If stains remain Mopec recommends trying a stainless steel cleaner and polisher. Barkeeper's Friend is a good powder formula that can clean without scratching. Be sure to follow the directions, rinse thoroughly, and towel dry. These methods should help remove any discoloration.

Fingerprints and Stains – The most common surface contaminates that occur from normal use are fingerprints and mild stains. These usually affect only appearance so fortunately they do not have an effect on corrosion resistance. They can easily be removed by a variety of simple cleaning methods. The most troublesome marks to remove from the surface of smooth polished or bright finished stainless steel are fingerprints; fortunately they can be removed with a common glass cleaner or by gently rubbing with a paste of soda ash (sodium carbonate) and water which would be applied with a soft cloth. Again, it is best to follow with a warm water rinse.

Clean Water and Wipe – The method that will do an adequate job and is the simplest, safest and the least costly is the best method. There is no surface coating to wear off of stainless steels so the surface will thrive with frequent cleaning. The first choice to clean mild stains and loose dirt and soil should always be a soft cloth and clean, warm water. Rinsing with clean water and wiping the surface dry will finish the process and eliminate the possibility of water stains.

Solvent Cleaning – To remove oils, greases and fresh fingerprints that have not had time to oxidize or decompose, use a solvent that does not contain chlorine. There are many organic cleaners on the market today that optimize safety attributes and clean ability. Spray or vapor methods or by wiping with clothes containing solvents can also clean surfaces. The wiping technique will sometimes leave the surface streaked.

Scratch Repair

A surface scratch can be repaired using the following technique. Completely removing the scratch will depend on how severe it is. Use 120 grit emery cloth or paper and firm pressure to sand the scratch. Sanding must always go in the direction of the grain. Sand in a perfectly straight line, avoiding the natural tendency to sand in an arc. Sand the surface until the scratch is gone. Polish using a very fine grade of 3M scotch-brite pads. Use the same motions as with sanding. Polish the surface until the original finish is restored.

For stubborn spots, stains, light discoloration, water marking or light rust staining use a mild, non-scratching cream or polish. Apply with soft cloth or soft sponge and rinse off residues with clean water and dry. Avoid cleaning pastes with abrasive additions. Suitable cream cleansers are available with soft calcium carbonate additions, or with the addition of citric acid. Do not use chloride or acidic solutions Nylon abrasive pads should be adequate for dealing with most deposits (DO NOT USE STEEL WOOL OR BRILLO PADS). If a more severe treatment is needed to mask coarse scratches or physical damage on a surface, use the finest abrasive medium consistent with covering the damage marks. With directional brushed and polished finishes, align and blend the new "scratch pattern" with the original finish, checking that the resulting finish is aesthetically acceptable. Silicon carbide media may be used, especially for the final stages of

finishing. Avoid using hard objects such as knife blades and certain abrasive/souring agents as it is possible to introduce surface scuffs and scratches. Scratching is particularly noticeable on sink drainer areas. These are usually superficial and can be removed with proprietary stainless steel cleaners or, alternatively, with a car paint restorer, such as 'T-cut'. Rust marks or staining on stainless steels is unlikely to be the result of corrosion to the stainless steel itself (similar marks may also be found on porcelain and plastic sinks). These marks are likely to result from small particles of carbon steel from wire wool.

PREVENTITIVE MAINTENANCE CHECKS

Overall condition, frame and welded assemblies

Do a check for the overall condition of the stretcher. Make sure the structure and welded assemblies are in good condition—no dents, twisted parts, corrosion, or loose or missing hardware (such as screws, nuts, bolts, E-clips, etc.).

Observe the symmetry of the stretcher and examine that the stretcher frame and base are not twisted. Do any necessary repairs or paint retouches.

1. Make sure all labels are installed and can be read.
 2. Do any necessary repairs or paint retouches, replace parts if necessary.
 3. Check for lose or missing hardware, replace or adjust as necessary.
 4. Casters Check for cuts, wear and quality of the tread, etc. Replace if necessary.
-
1. Brake and steer function
 2. Apply the brake, and make sure the stretcher does not move. If there is movement, look at the brake components for wear.
 3. Apply the steer, and make sure the stretcher steers correctly. Look at the steer components for wear.
 4. Put the stretcher in neutral. Make sure all four casters rotate and roll freely.
 5. Adjust or replace components if necessary.
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1. Pump pedal Inspect the pump pedals. Also check for any linkage interferences. Repair or replace if necessary
 2. Inspect for proper operation.
 3. Hi-low Test the pump action of the stretcher. It should not exceed 28 pumps to achieve maximum height.
 4. Test the smoothness of lowering.
 5. Look around the hydraulic cylinders and make sure there are no oil leaks.
 6. Repair or replace components if necessary.

TROUBLESHOOTING

Function Checks

Brake/Steer

1. Put the cart in the brake position. The brake pedal locks into position, and the four casters do not roll or turn.

Yes No

2. **Steering Plus™ Steering System only.** Put the stretcher in the steer position. The fifth wheel drops into position.

Yes No

3. Put the cart in the neutral position. The pedal locks into position, and all four casters turn and roll freely.

Reduced Pedal Pumps

1. The stretcher rises to the high position after approximately 28 presses of the Hilo Up pedal.

2. Lower the cart, and press the elevation pedal approximately 28 times to raise the stretcher to the high position. Both the head and foot ends of the stretcher raise evenly.

If one end is slower to raise the hydraulic must be bleed of air. To bleed the hydraulic system, follow the below steps. This will require two personnel.

1. Press the center pedal for lowering the cart top
2. Someone must press down on the pump pedal for a count of 30 while the center pedal is being depressed
3. Release the center pedal and pump up the cart top, it should take approximately 28 pump for the cart top to fully raise.
Repeat as necessary. If no improvement contact Mopec 800-362-8491 or warranty@mopec.com

LIMITED WARRANTY

Products manufactured by Mopec will be free from defects in material and workmanship and conform to Mopec's description or specifications. If a warranty claim is made within one (1) year from the earlier of the date of acceptance/first beneficial use, the defective or nonconforming Product or Part thereof will be repaired or (at Mopec's option) replaced free of charge, FCA Mopec's dock. All warranty claims must be in writing and received by Mopec within the warranty period. The warranty is not transferable (other than to customers of Mopec's authorized Distributors), and will not apply unless the Equipment has been properly installed, maintained and operated in accordance with all instructions; and does not apply to defects, nonconformities or other failure due to Equipment misuse, abuse, modifications, or other causes outside Mopec's control. If a warranty claim is made in writing within the warranty period, the defective or nonconforming Equipment (or Part thereof) will be repaired or (at Mopec's option) replaced free of charge, FCA Mopec's dock.

THERE ARE NO WARRANTIES WHICH EXTEND BEYOND THE DESCRIPTION ON THE FACE HEREOF. THE WARRANTY AS SET FORTH HEREIN IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

To the extent that Mopec is acting as a supplier of Products manufactured by a third party, the Products will be warranted only to the extent that they are warranted by their manufacturers and Buyer (or its customer) agrees to look solely to the Product manufacturer for all warranty claims.

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