

ALBERS  
USER GUIDE

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Contact: [ALBERS@biotx.ltd](mailto:ALBERS@biotx.ltd)

## Welco

This guide

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ALBERS

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ome!

de will explain and illustrate how to install, set up, use, and  
n your ALBERS Leg Bag Emptier & Reservoir System. You'll  
w to mount /attach ALBERS to your power chair and connect  
r leg bag using dripless connectors. Everything you need is  
d, and no tools are required (although a pair of scissors may  
handy in order to trim some tubing to length).

is designed to empty your leg bag on a timed schedule that  
trol. By default, the pump will go on every 90 minutes, but you  
t that interval to decrease or increase the time between pump  
ns. In addition, you also have the option of emptying the leg  
pressing and holding a button, if the need arises.

move through this guide, please feel free to note any issues  
in which you feel more explanation would be helpful. Let us  
ur concerns, and we will address them directly.

# UNBOXING



When  
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and tw  
  
This ca  
moun  
3-liter  
rechar  
extern  
and S  
in the

PREVIOUS





When you open the shipping carton, this is what you will find inside: a zippered case with four swivel-mounted fittings on the back and two additional fittings extending from the left side of the case.

The carton contains the complete ALBERS product including adjustable carrying straps, the dual-pump enclosure with a micro-controller, the Reservoir, all necessary tubing with dripless connectors, a 12-volt rechargeable battery with an 8 -10 year backup Emergency Battery, the manual "manual" pushbutton switch, and the Rinse Kit with Pouch Sanitizing Tablets. Each of these items is more fully described in the COMPONENT section that follows.

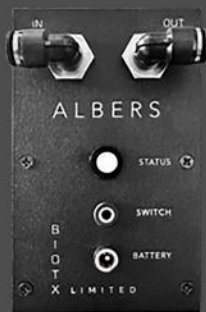
NEXT

# COMPONENTS

Let's take a look at what you'll find within the zippered ALBERS case.



12-volt Rechargeable Battery



Dual-Pump Enclosure with  
Microprocessor & Bluetooth



Thru  
with Dr

PREVIOUS



Three-Liter Reservoir  
Lipless Inlet Connector



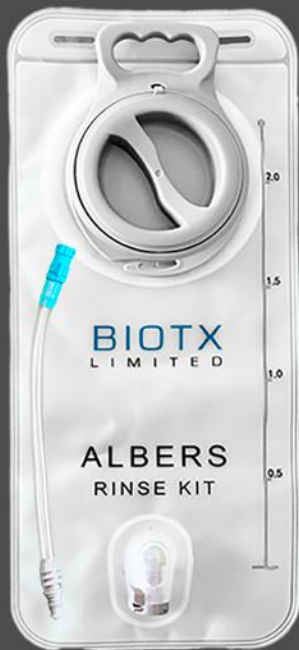
Emergency Battery



External Pushbutton Switch

CONTINUED

# COMPONENTS



2-Liter Rinse Pouch

Let's take a look at what else you'll



Sanitizer Tablets



Rinse Pouch-to-  
Extension Con

PREVIOUS



find as part of the ALBERS system...



ALBERS  
connection



Leg Bag-to-ALBERS  
(With Barbed Fittings  
for Drainage Tube)



Gravity Drainage Tube

CONTINUED

# COMPONENTS

And these items are presented for the sake of completeness



Battery Charger



Battery Cable

PREVIOUS



ess, though directions as to their use are likely unnecessary...



Emergency Battery  
Cable



Cam Lock Straps  
(Four Straps Included)

NEXT

# POWER CHAIR INSTALLATION



There are two aspects to power chair installation that involves securing the chair to the vehicle in the best position it for driving (considering the user's accommodations for the chair's functions), and clearing the path for the chair's position of the backrest.

The second aspect of power chair installation is from your leg bag to the power chair's ALBERS case and the power chair's panel-mounted switches.

Every chair and every vehicle is different, so factored into when you are installing the four cam-lock web

PREVIOUS





ects to installing the ALBERS on your power chair. The first  
the zippered case to those structures of your chair that will  
convenience and clearance. Convenience in terms of  
the other gear you may have (for storage or other important  
clearance in terms of making sure you can fully adjust the  
back and seat without interference.

part of installation involves inserting the tubing that will run  
into the push-to-connect elbow on the left side of the  
connecting the external pushbutton switch to the silver  
socket (next to the elbow fitting).

Every user will have unique conditions that will need to be  
the best to position ALBERS and how to secure it using the  
sliding straps. Let's get started...

CONTINUED

## POWER CHAIR INSTALLATION



There are four swivel fittings on the case that you use to suspend the case from structural members. Run the straps through a swivel connector and then thread that strap end into and through the knurled hole. Double check to be sure the chair is properly aligned without colliding with the ALBERS components.



PREVIOUS



the back of the ALBERS case. Each is an anchor point you will use to secure the structural elements of the power chair. Thread each of the four straps through the buckle and wrap the loose end around a rigid structure before inserting the buckle. Tighten each strap until the case is securely positioned.

is fully adjustable  
case!



Once the ALBERS case is securely positioned as desired, connect the tubing and the switch...

CONTINUED

## POWER CHAIR INSTALLATION



Plug the external  
into the panel-m

*If for any reason you  
your leg bag before  
automatically, or if  
on as scheduled, j  
red button and the  
Locate the button  
wherever you prefer  
foam tape is recom*

Firmly insert this  
end of the tube into  
the elbow fitting.

PREVIOUS



l switch firmly  
ounted socket.

ou need to empty  
re ALBERS does so  
ALBERS fails to turn  
ust press & hold the  
e pump will activate.  
on the armrest or  
ier. (Double-sided  
mmended.)



This dripless connector mates with the barbed fitting you must insert into the end of the leg bag drainage tube. Select the largest barb that will fit to ensure a secure leak-proof connection.

NEXT

## CONTROLLER & SETTINGS

The heart of ALBERS is its microprocessor controller. It monitors the health of both pumps, and if one is having problems, it will be deactivated so that the healthy pump can continue operating. ALBERS also monitors the pressure, so when the leg bag is empty, the system senses this and instantly turns the pump off. This feature is of critical importance; it prevents ALBERS from pulling a vacuum on the leg bag which could affect the catheter or prevent the normal filling of your leg bag. Let's take a look at how to power up ALBERS, and then we can explore the functions accessible to you from the ALBERS smartphone app.

[PREVIOUS](#)



Your ALBERS arrives as shown here, but with the Battery Cable disconnected. To start ALBERS, you will first want to open the ALBERS app on your smartphone. Then, after connecting the Battery Cable as shown, press the Power Button. When you do so, the Status LED will activate and the phone app screen changes to display the current status (as shown next).



Power Button

Battery Cable

CONTINUE

# SMARTPHONE INTEGRATION & USE



## It's in the App...

The ALBERS phone app provides a convenient way to monitor and control your system. In the following pages, we will show you how the app is available for you to control your system. You will need to have given permission for the app to access your location and Android versions, and you can find the app on the App Store or the Google

PREVIOUS





provides complete control of every feature and function of the device. We will show you what your app screens will look like and what functions you can control from your smartphone. In addition, only you, or those to whom you grant access, will have access to your ALBERS. The app is available in both iOS and Android. Here are the links with which you may access the app from either the App Store or Google Play Store:



CONTINUE

## Launch the App

When you first launch the app, the splash screen, below, will briefly appear while the app seeks to pair ALBERS with your phone.



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After pairing is complete, and if the self-diagnostic finds that ALBERS is fully functional and ready to go, this is the screen image you will see...

*This icon indicates no faults or problems have been detected. Tap the icon to load the System Status screen for details.*



*This is the screen to... such as th*



The illuminated Green Button confirms that ALBERS is ON.



This is the Pump Interval countdown timer. When it reaches zero the pumps are activated. It automatically resets when pumping is completed and begins the next countdown.

Tapping the Pump NOW icon overrides the Automatic Pump Cycle timer to initiate pumping on your command.

Tapping this icon launches the maintenance screen to control cleaning and sanitizing functions.

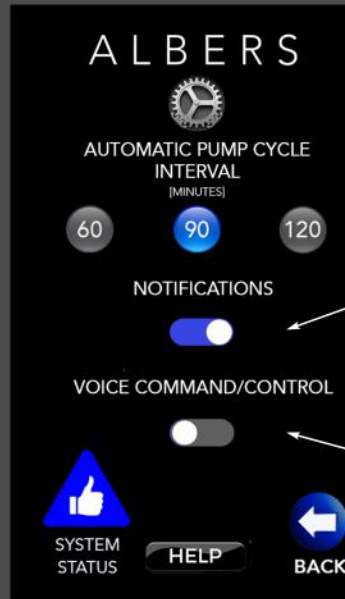
The Settings icon. Tap the icon to load the Settings view and change any user-controlled settings, the Pump Interval cycle.

CONTINUE

## SETTINGS



The Settings icon is available from virtually every screen to allow you to access the dedicated Settings page you see on the right.



PREVIOUS



*The settings for the Automatic Pump Cycle allow three timed intervals. By default, ALBERS ships with a 90-minute interval between pump cycles. To change your setting, simply tap the desired interval.*

*This slider button allows you to enable or disable notifications regarding matters affecting your ALBERS, including important System Status changes. We always recommend enabling this feature.*

*ALBERS includes a built-in microphone that will permit control of key functions using voice commands. This feature, once enabled, will allow you to control ALBERS even if your phone is lost or inoperable.*

CONTINUE

## SYSTEM STATUS



There are four unique icons used to indicate the System Status. These include a blue "thumbs up" triangle that tells you all systems are nominal. A glowing red/pink triangle indicates a problem with one or more of the pumps or the circuits and sensors used to monitor and control them. A battery icon warns of a low state of charge, and after a battery failure, there is an orange warning icon to remind you that you are operating under power supplied by the Emergency Battery. To the right and on the following pages are examples of System Status screens you may encounter.



ALBERS



System Status

UMP 1



PUMP 2



BATTERY: 63%



HELP

BACK

ALBERS



System Status

PUMP 1



PUMP 2



Error 451  
Overcurrent  
No Continuity

BATTERY: 63%



HELP

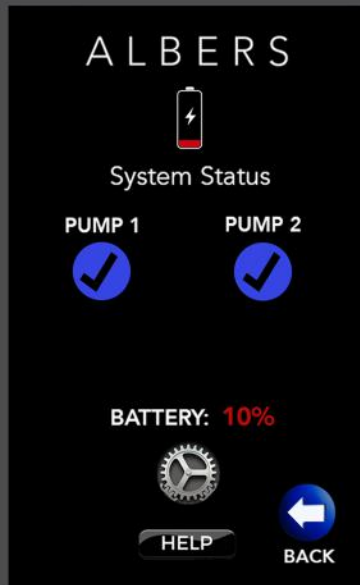
BACK

CONTINUE

## SYSTEM STATUS



The low-battery icon will appear when ALBERS detects its state of charge to be 10%. If it should decline to 5%, a notification will be sent (if enabled) to inform you. If the battery fails, however, the screen in the middle will appear. Note that all features and functions are grayed-out indicating ALBERS is no longer communicating with the App. But with the Emergency Battery connected, all functions are seen to be active again.







ALBERS



**BATTERY FAILURE**  
Automatic Pump Cycle  
**Connect Emergency**  
**Battery**  
Timer Override



SYSTEM  
STATUS



RINSE  
SANITIZE

HELP

ALBERS

ON



01:30:00

Automatic Pump Cycle  
Countdown  
Timer Override



SYSTEM  
STATUS



RINSE  
SANITIZE

HELP

CONTINUE

## RINSE/SANITIZE



At the end of the day, after emptying the Reservoir, your caregiver taps this icon to load the control screen needed to rinse and sanitize ALBERS.

The process of preparing to rinse and sanitize ALBERS is described in detail in this User Guide at [this location](#).





BERS



nitize Cycle



ELP



BACK

After connecting the Rinse Pouch to the ALBERS inlet tube, tap the START button. The 60-second cleaning cycle will begin, and the countdown timer show the time remaining before the pumps stop.

To halt the pump (In the event of a leak or for any other reason), tap the Emergency Stop icon. This will terminate the cleaning cycle and reset the countdown timer.

Once the cleaning process is complete, tap the BACK icon to return to the main screen

CONTINUE

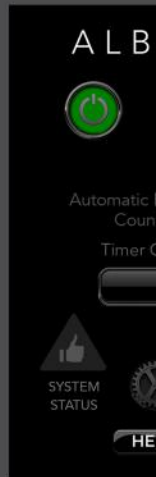
## OTHER SCREENS *and what they mean....*



*If you open the ALBERS app and it is unable to pair with ALBERS, this screen will load to prompt you with possible solutions.*



*ALBERS is ON, but faults affecting the pumps prevent its use. Tap the Status icon for details and options.*



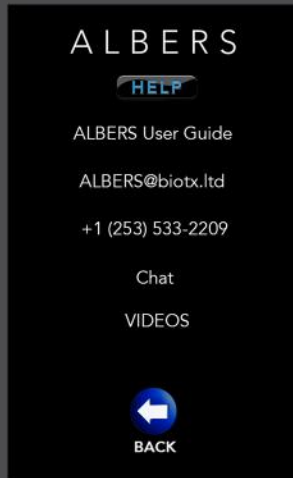
*After tapping the Status icon, as shown here, you can see if you are connected but not working. Tap the green button for all available features.*



the red button, ALBERS is in "Sleep Mode." button to awaken features.



After you tap the Pump NOW! button, the Countdown Timer is zeroed until the pumping cycle is complete. It will then be reset and the countdown will start again.



The HELP button is always active and accessible from every screen. A link to this Guide is embedded within the app for easy reference.

NEXT

## RESERVOIR USE

The three-liter Reservoir is a key ALBERS component. The drip chamber uses a twisting motion. Only when connected can fluid flow through the tube either the pump Outlet tube or from the Reservoir Inlet tube w

ALBERS stores the urine from your leg bag to prevent backflow by not permitting air to flow to or from the Reservoir. fully collapsed at the start of every day before use. Keep in mind that any air left in the Reservoir



This  
Instr  
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PREVIOUS



less connectors are engaged and disengaged by a simple  
the fittings. This ensures that no urine can escape from  
when the male and female connectors are separated.

for the entire day without any detectable odor. It does this  
Reservoir. For this reason, the Reservoir must always be  
re connecting it to the Outlet tube of the pump .  
r occupies space that cannot be used efficiently for storage!

is what your Reservoir must look like before you start your day.  
ructions on emptying, rinsing and collapsing the Reservoir are  
sented on the following page...

CONTINUE

## RESERVOIR USE

Cleaning and collapsing the Reservoir is a daily task once you've emptied. It begins with disconnecting it for removal of connectors to separate them. Please do not fill with more than two liters of fluid. Rarely if ever more than once a single day. But even with 2/3 of this maneuvering the bag to empty it is not too difficult. Not to worry; the Reservoir has a handle that makes it easy. The handle has grip points and a screw cap lid. But the handle also provides solid control over the mouth of the Reservoir and makes it easy to use with one hand, use the fabric handle to tilt the Reservoir into the toilet. Once the Reservoir has been emptied, rinse thoroughly with water in order to accommodate the volume of sanitizing fluid to be pumped from the



PREVIOUS





otted, rinsed and sanitized it. The process of emptying the Reservoir from the zippered case. Simply twist the dripless note that a fully expanded Reservoir holds a total will the Reservoir collect this much urine in a amount, removing the screw cap lid and over the toilet may seem a bit daunting. custom-molded plastic handle that makes it for your thumb and forefinger to both tighten as important, the handle also has a tail portion s pouring out the contents easy and spill-free. Holding the tail portion et. The contents wil flow smoothly and under full control. preparation for sanitizing. Be sure to fully compress the Reservoir to Rinse Pouch.



CONTINUE

# MAINTENANCE/SANITIZING

***SAFETY FIRST!*** Always wear nitrile/latex gloves and eye protection when handling the solution created when added to the Rinse Pouch should never be allowed to dry. *bleach, it is safe when handled carefully, so please be careful! And keep*

At the end of each day, every component of the ALBERS system which has come in contact with urine, the Reservoir and the tubing and connectors that carry urine from the leg bag into the Reservoir.

Here are the individual steps to be followed to properly care for and maintain the ALBERS system.

- 1) After emptying the Reservoir, add a few drops of dishwashing liquid and rinse the Reservoir.
- 2) With the screw-top cap loosely attached (so air can escape), compress the Reservoir.
- 3) Fill the Rinse Kit Pouch with warm water. Add 1 ALBERS Sanitizing Tablet for each liter of water.
- 4) Connect the male dripless connector of the ALBERS external Inlet tube to the female connector of the Rinse Kit Pouch.

*See the illustration of this process on the following page...*

- 5) Using the phone app, tap the Sanitize icon and then the START button to initiate the sanitizing process. If additional rinsing/sanitizing is desired. **NOTE:** Pumping 1 liter of Sanitizer Solution into the Reservoir.
- 6) Disconnect both the Rinse Kit Pouch and the Reservoir.
- 7) Empty the Reservoir and rinse briefly with clean water before compressing it for storage.
- 8) Any remaining Sanitizer Solution may also be retained for next-day use.
- 9) Connect the Rechargeable Battery to the Charger.

PREVIOUS



*When sanitizing ALBERS. The Chlorine Dioxide Sanitizing Tablets and should be avoided to contact your hands or get into your eyes. As with liquid sanitizing solution, keep the Tablets and the Sanitizing solution away from children and pets!*

Any equipment that comes into contact with urine must be cleaned/rinsed/sanitized. This includes the Reservoir.

Sanitize the ALBERS system:

1. Disconnect the Reservoir thoroughly.

2. Remove the cap from the Reservoir and tighten the cap. Reconnect the Reservoir to the pump Outlet tube.

3. Add 1 liter of water, replace the cap and allow 3 minutes for the Tablet(s) to dissolve.

4. Remove the cap and make a female dripless fitting of the Rinse Kit Pouch.

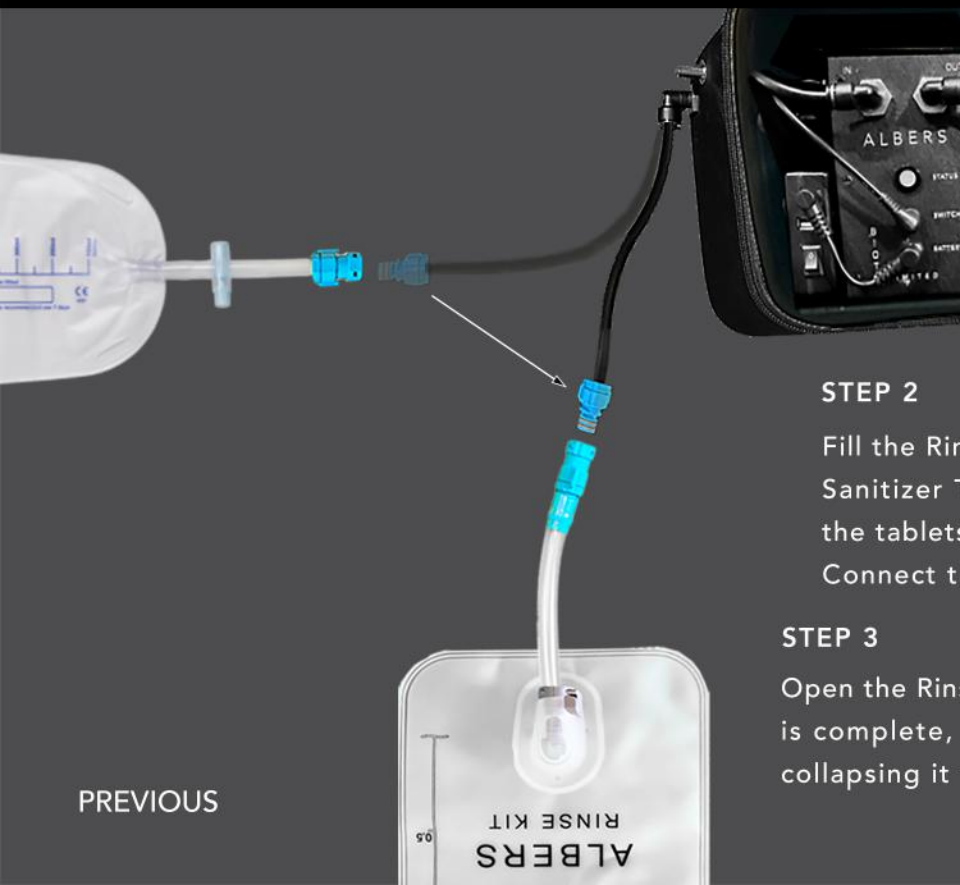
5. Repeat the process. The pump will stop after 60 seconds. Repeat the cycle if necessary.

6. The sanitizing process through ALBERS should be sufficient as a daily maintenance procedure.

7. Use the ALBERS for next-day use.

CONTINUE

## MAINTENANCE/SANITIZING



PREVIOUS

### STEP 2

Fill the Rinse Kit with the Sanitizer. Add the tablets. Connect to the device.

### STEP 3

Open the Rinse Kit. When the sanitizing is complete, collapse the Rinse Kit.



## STEP 1

After emptying the Reservoir, rinse it, add a few drops of dish soap and agitate it with a small amount of water. Empty & collapse the Reservoir and reconnect it to receive the sanitizing solution from the Rinse Kit Pouch.

Rinse Kit Pouch with at least one liter of warm water. Add 1 ALBERS Tablets per liter (using PPE gloves and eye protection to handle tablets and solution). Allow at least 3 minutes for the tablets to dissolve. Reconnect the Inlet tube (the one that draws urine from your leg bag).

Tap the Rinse/Sanitize Cycle screen and tap the START button. After the cycle completes, let the Reservoir sit for a minute before emptying, rinsing and reusing for reuse.

NEXT

## EMERGENCY BATTERY

Your regular rechargeable battery is of excellent quality, and you can rely on it. But just to be ultra safe, ALBERS includes a backup battery in case of an emergency. You may never need it, but if the worst happens, you can't afford to be without it.



Although your main ALBERS battery is of excellent quality, we advise you to recharge it at all times. But if for some reason it isn't able to power ALBERS, you can still operate ALBERS until you have a chance to recharge it.

### WHAT TO DO

- 1) Attach the included cable to the Emergency Battery contacts.\*
- 2) Disconnect the rechargeable battery from the pump enclosure.
- 3) Plug the Emergency Battery cable into the pump enclosure.

*\* To preserve the storage life of this battery, do not attach the cable to the battery.*

PREVIOUS



...n expect it to perform flawlessly for years to come.  
...of emergency. As with insurance, you don't expect  
...out it!

...RS battery will likely last a week or more,  
...it every night just to keep it at full power  
...reason it fails to be recharged, or for any  
...er the pump, this Emergency Battery can  
...resolve the problem .



...battery contacts until time of use.

NEXT

# TROUBLESHOOTING

If you experience any problems with ALBERS for which a solution is not available, please call our technical support team at +1 (253) 533-2209. We will respond as quickly as possible.

## **When I press the Power Button on the Rechargeable Battery,**

Check the Battery Cables to make sure they are fully inserted in the Battery.

Check the state of charge of the Battery (green LEDs embedded in the Battery).

## **The interval between pump activation is too long (or too short).**

The default interval (in minutes) is 90. To increase or decrease this interval, call our technical support team at +1 (253) 533-2209 to set an alternate interval (60 or 120), and when your section turns blue, the pump will activate.

## **When I press the red button on the external switch, nothing happens.**

The plug for the pushbutton switch must be fully and completely inserted into the switch.

Check to make sure that power to ALBERS has been switched on in the phone app.

Check the System Status in the phone app for possible faults in the system.

Remember, this is a “momentary” switch--it will only provide power to the pump when it is pressed.

PREVIOUS





on is not presented here, call our Technical Support number:

**nothing happens.**

in the Battery and in the Battery socket/jack on the Enclosure.  
(The LED in the Battery case should be lit).

At the interval, tap the Settings icon in the phone app. Select  
the BACK icon to return to the Main Screen.

**nothing happens.**

The battery is fully inserted into the jack on the left side of the ALBERS case.  
The LED on the battery and that the battery is charged.  
The LED is indicated in one or both the pump circuits.  
The power to the pumps while the button is being pressed.

CONTINUE

## TROUBLESHOOTING

**When I disconnect the Reservoir, a few drops of urine are released.**

The term "Dripless Connector" is a relative one. ALBERS uses the best technology available to release the smallest volume of fluid of any dripless connector on the market. We also provide a cloth to blot up any errant drops you might encounter while disconnecting.

**When I connect my leg bag to the ALBERS case, urine leaks from the connection.**

Push-to-connect fittings require that tubing be inserted quite far into the fitting. A leak from this connection is almost always cured by reinserting the tubing. When reinserting the tubing, check to verify that the end of the tube has been inserted far enough. A clean, square cut of the tube end is important to ensure a proper seal.

[PREVIOUS](#)



### **ed. Is the connector defective?**

Kent Systems as its supplier, and their connectors  
in the market. Try keeping a tissue on hand  
to detect these fittings..

### **on the elbow fitting.**

forcefully until you encounter a hard stop. Leakage  
in the tubing until that hard stop is reached. But when  
the tubing has been cut cleanly and at a 90 degree angle,  
there should be a proper watertight seal.

NEXT

## WARRANTY/SUPPORT

ALBERS provides a limited 24-month warranty on all mechanical and electrical parts. During the warranty period, BIOTX will replace it at no cost, except for shipping. BIOTX will either ship a replacement board or provide a temporary loaner unit. If a loaner unit is provided, the failed unit must be returned to BIOTX where it will either be repaired or replaced. If BIOTX chooses not to repair the failed unit, the loaner unit provided to the customer will be replaced. ALBERS has been designed for easy repair by the customer. Pumping station maintenance is simple. A small Phillips head screw driver is all that's required to gain full access to the internal components and the enclosure itself is anchored to the ALBERS case with a simple screw. The enclosure is held in place by strips on the bottom. Any parts replacement, including the circuit board, can be done with minimal tools or skills required! But just to be sure, videos of parts removal and replacement are available.

***For specific problems encountered in the use of ALBERS, please contact BIOTX.***

PREVIOUS



and electrical components. If one of the pumps fails during the warranty period, BIOTX will provide a loaner pump. If the electronics should fail during the warranty period, BIOTX will provide a loaner "loaner" of the entire Dual-Pump Enclosure. In exchange, the loaner will be repaired or replaced, at the option of BIOTX. If BIOTX elects not to repair the loaner, the loaner will become the authorized replacement.

The pumps, for example, can be removed and replaced without tools. Access to the components within the Dual-Pump Enclosure, through a simple cleat on the back and with reusable polymer "adhesive" tape, can be accomplished quickly and easily--no special tools. Repair and replacement will be provided as needed, or upon request.

**For more contact Technical Support: +1 253.533.2209.**

# A L B E R S

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Automatic Leg Bag Emptier & Reservoir System



**BIOTX**  
LIMITED

[WWW.BIOTX.LTD](http://WWW.BIOTX.LTD)