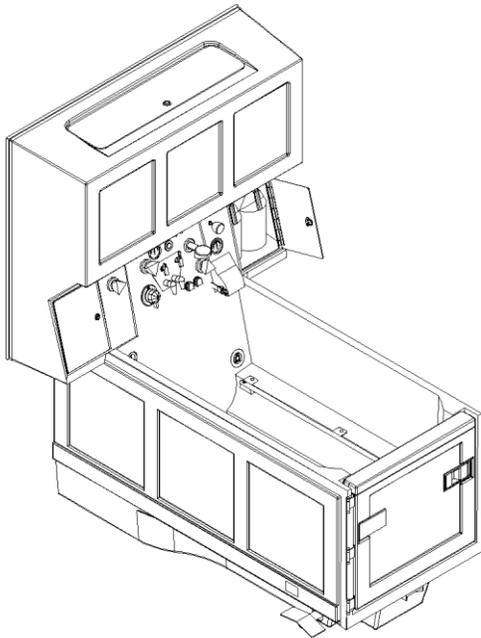




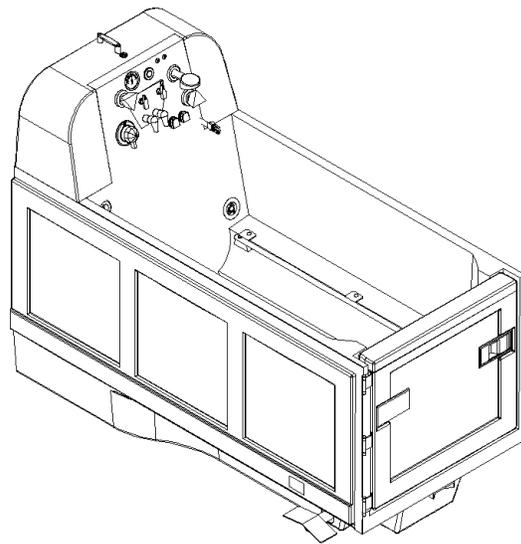
Advantage™ Bathing System

Operating Manual

(Manual Part Number 990-044)



6000 Series



6300 Series

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Product Identification

Product _____ **Model** _____

Serial Number

Tub _____

Cabinet/Shroud _____

Rapid Fill™ Reservoir _____

Level Glide™ Transfer System _____

Scale _____

Optional Features

Remedy® UV Infection Protection™ System

For Assistance Contact:

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Somerset, WI 54025
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Apollo Bathing System Operating Manual

Forward

Thank you for purchasing your new Apollo Bathing System. Please read this manual carefully before operating your new bathing system.

Apollo Bathing Systems are designed and built to give you years of reliable service. To assure the safety of caregivers and residents and to realize the maximum benefits from your system, it must be properly operated and maintained. This System Operating Manual gives you the information needed for safe, effective day-to-day resident hygiene and hydrotherapy.

The primary purpose of this operating manual is to introduce the key information and features of this Apollo Bathing System, present the benefits of this system, explain and define the critical warnings and precautions that are required to be taken with the bathing system, and define the pre-bath, bathing and post-bath procedures. It is important to refer to this manual, the parts manual, troubleshooting section, or maintenance manual if you have any questions concerning safe and proper use.

The information in this Operating Manual is important. All personnel operating the Apollo Bathing System must read and understand this manual completely. They must have hands on training from an Apollo representative or your authorized trainer. Any questions should be directed to the Apollo Corporation, your local authorized Apollo representative or our website: www.apollobath.com.

You may reach Apollo product support by phone: +1 (715) 247-5625 or by email: techservice@apollobath.com

Plumbing and Electrical Codes

All states and municipalities may differ extensively in their plumbing and electrical codes. Therefore, it is Apollo Corporation's recommendation that you check with the proper enforcement agencies in your area before installation.

All Apollo bathing systems are manufactured with built-in backflow prevention. However, due to different plumbing codes, it is advisable that you ask your installer whether there is a need to install additional backflow prevention valves (such as RPZ valves) on any new construction.

Transportation and Storage Conditions

- Ambient Temperature: -40°F to 158°F (-40°C to 70°C)
- Relative Humidity Range: 10% to 100%
- Atmospheric Pressure Range: 500 to 1060 hPa

Operation Conditions

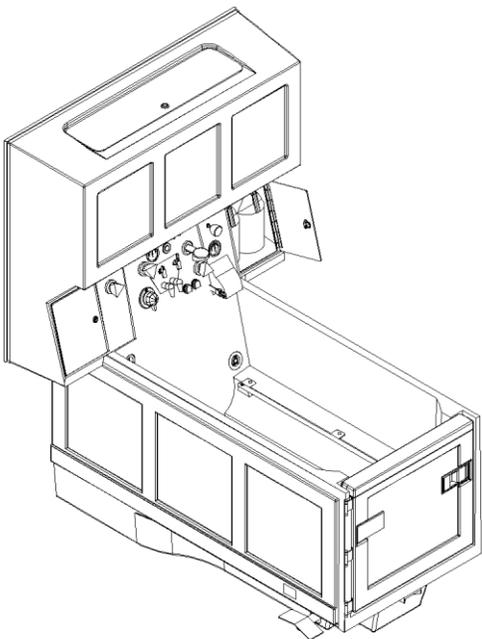
- Ambient Temperature: 75°F to 95°F (24°C to 35°C)
- Relative Humidity Range: 10% to 100%
- Atmospheric Pressure Range: 500 to 1060 hPa

Critical Warnings

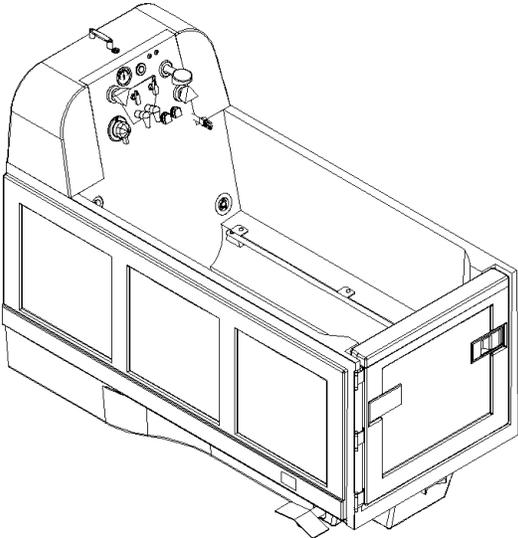
Apollo Bathing Systems with the Level Glide™ Transfer System are designed and built to give you years of reliable service. To realize the maximum benefits from your system, it must be properly operated and maintained. This System Operating Manual gives you the information needed for normal day-to-day resident bathing.

 Attention	
	<p>Hot water above 110° F (43° C) can scald people causing severe injury or death. Some residents may not be able to tell attendant about painful or uncomfortable conditions.</p> <ul style="list-style-type: none"> • Monitor water temperature entering the bathing system and in the reservoir with thermometers provided.
	<p>Assure proper adjustment of the Level Glide™ Transfer System and lock chair onto carrier to assure safe resident transfer.</p> <p>Before moving Level Glide™ Transfer System:</p> <ul style="list-style-type: none"> • Verify chair is locked to carrier. • Properly secure resident to chair with upper and lower seat belts. • Be sure arm rests are in the down position. • Never leave resident unattended in chair or tub. <p>Before transferring resident between carrier and tub or tub and carrier:</p> <ul style="list-style-type: none"> • Be sure carrier rails are aligned with tub rails. • Be sure carrier is latched securely to tub. • Be sure arm rests are in the down position.
	<p>Failure to clean and disinfect the bathing system could help to spread infection or disease.</p> <p>Clean and disinfect bathing system and chair before bathing each resident.</p> <p>Do not leave water in reservoir between bathing sessions or overnight.</p>

Bathing System Operation



6000 Series

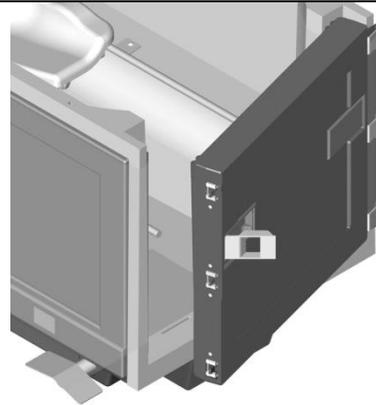


6300 Series

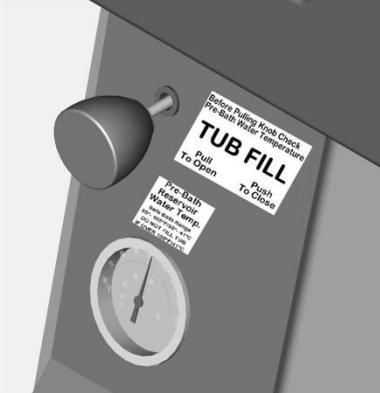
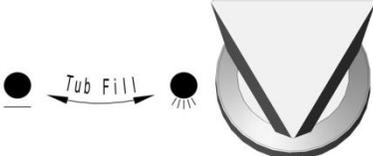
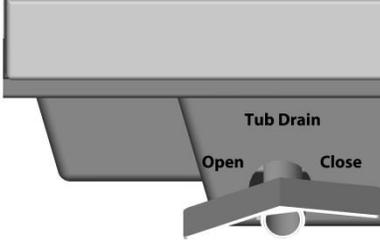
Bathing System Operation

Emergency Resident Removal

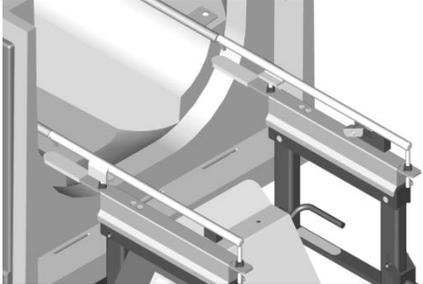
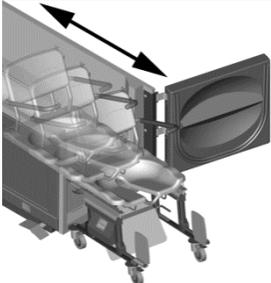
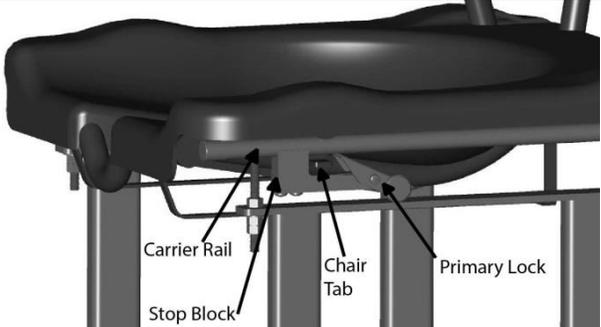
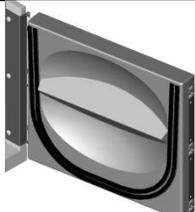
In a life threatening situation all attention must focus on resident welfare, removal from the tub, and acquiring medical assistance. Open door and allow the water to drain to the floor.



Remove Resident and attend to emergency.

<p>Turn off Whirlpool/Blower (if on).</p>	<p>Whirlpool</p> 
<p>Push in Tub Fill Lever (if open).</p>	
<p>Turn off Tub Fill Valve (if on).</p>	
<p>Open the Tub Drain.</p>	

Pre-Bathing Session Checkout

<p>Verify that carrier latches securely to tub. Dock carrier to tub. Pull carrier away from tub to ensure it is securely latched and will not release.</p>	
<p>Ensure carrier rails are tight and aligned to rails in the tub.</p>	
<p>Check that chair transfers smoothly in and out of tub and chair wheels do not bind on rails.</p>	
<p>Ensure that chair is locked to carrier. Verify that the Primary Lock moves freely and that it contacts the bottom of the Carrier Rail when released. Push chair forward and back to verify that the Primary Lock does not allow the Chair Tab to pass by.</p>	
<p>Check that seat belts are in good condition and secure snugly to white knobs on back of chair.</p>	
<p>Make sure door gaskets are in place on tub door.</p>	

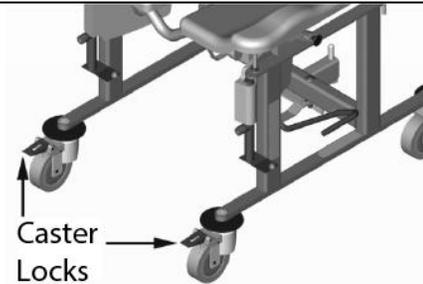
Resident Transfers in or out of Chair

Before using the Level Glide™ Transfer System:

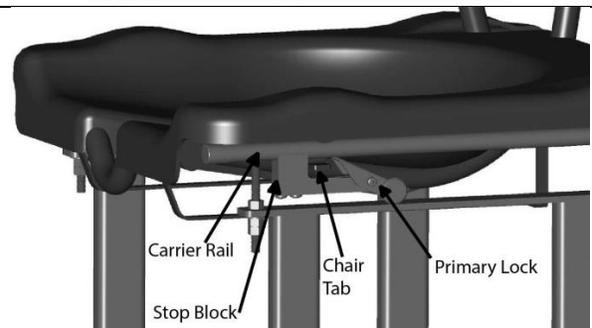
- ✓ Carrier rails are aligned with tub rails.
- ✓ Carrier latches securely to tub.
- ✓ Chair locks to carrier.
- ✓ Seat belts are installed properly.

Before transferring resident in or out of chair...

Lock casters on carrier.



Verify the chair is slid all the way forward on carrier and **Primary Lock** is engaged! The **Chair Tab** should touch **Stop Block**. Verify that **Primary Lock** touches bottom of **Carrier Rail** to block the **Chair Tab** from moving backwards.

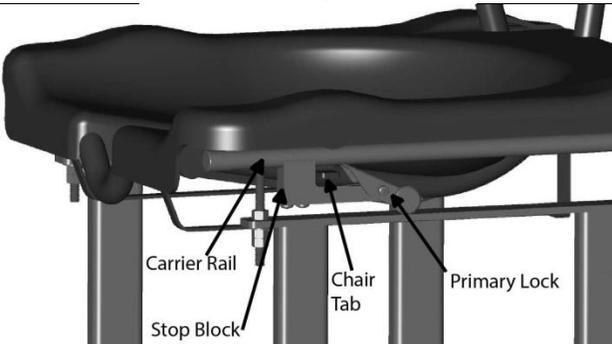
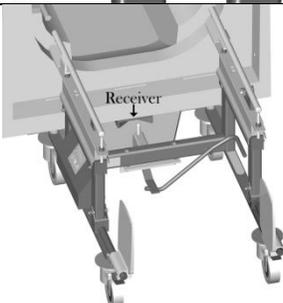


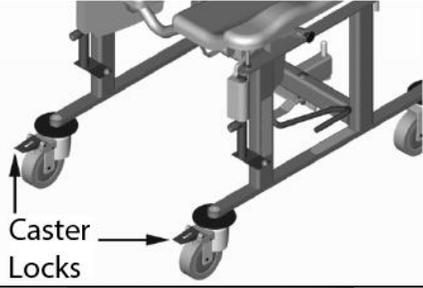
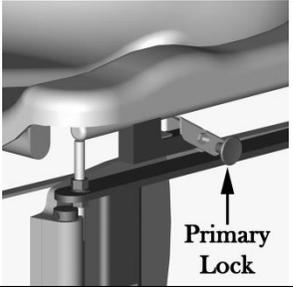
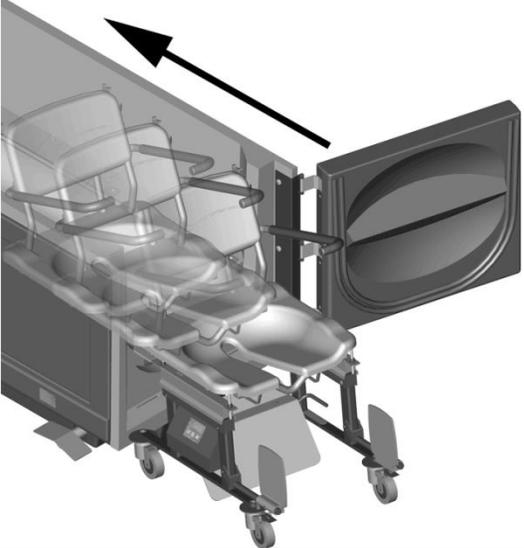
Chair/Resident Transfers into Tub

Before using the Level Glide™ Transfer System:

- ✓ Carrier rails are aligned with tub rails.
- ✓ Carrier latches securely to tub.
- ✓ Chair locks to carrier.
- ✓ Seat belts are installed properly.

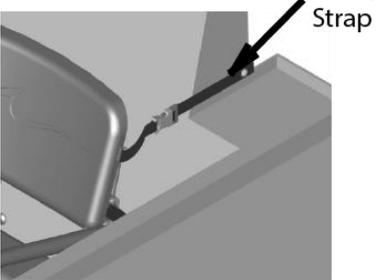
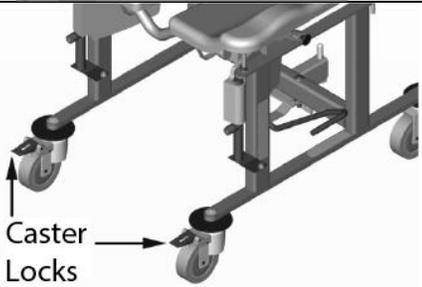
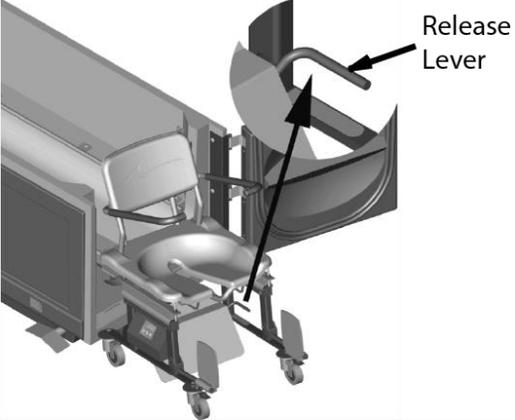
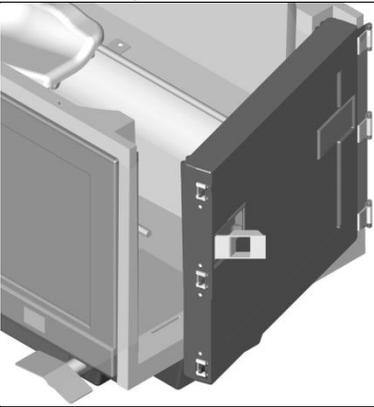
Transferring Chair/Resident into tub...

<p>Fasten seat belts by securing the belt over white attachment knobs on back of chair.</p>	
<p>Lower arm rests into the down position.</p>	
<p>Ensure that chair is locked to carrier. Verify the chair is slid all the way forward on carrier and Primary Lock is engaged! The Chair Tab should touch Stop Block. Verify that Primary Lock touches bottom of Carrier Rail to block the Chair Tab from moving backwards.</p>	
<p>Dock carrier to tub. Verify the carrier is secure by pulling the carrier away from tub. The carrier should not release from tub.</p>	

<p>Lock casters on carrier.</p>	
<p>Lift Primary Lock to release chair</p>	
<p>Glide chair into tub. It should move easily and smoothly.</p>	

While Chair/Resident is in tub...

Be sure chair safety strap is hooked while resident is in tub.

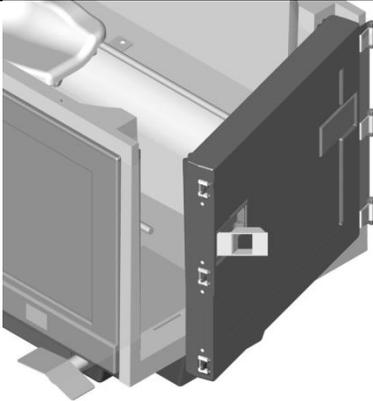
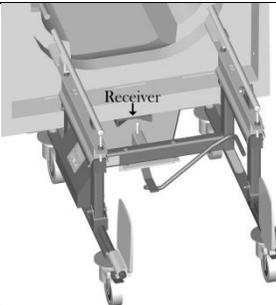
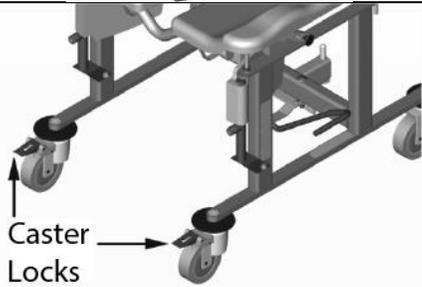
<p>Attach black Safety Strap on chair to black strap on tub.</p>	
<p>Unlock casters.</p>	
<p>Step down on Release Lever to unlatch carrier from tub. Move carrier safely out of the way.</p>	
<p>Close and latch door.</p>	

Chair/Resident Transfers out of Tub

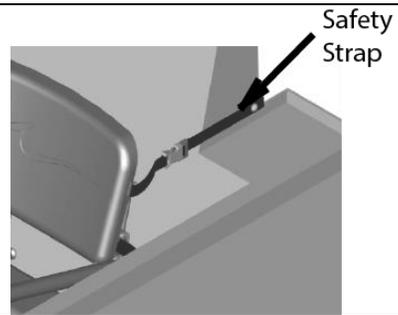
Before using the Level Glide™ Transfer System:

- ✓ Carrier rails are aligned with tub rails.
- ✓ Carrier latches securely to tub.
- ✓ Chair locks to carrier.
- ✓ Seat belts are installed properly.

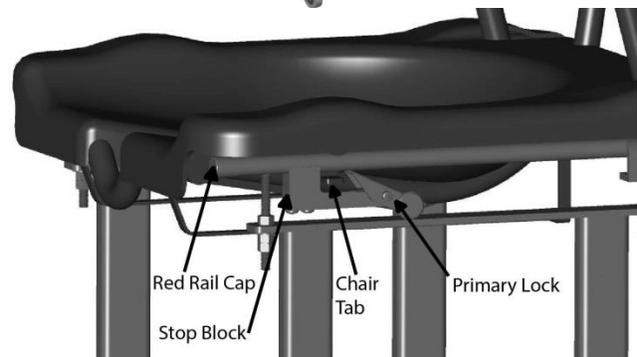
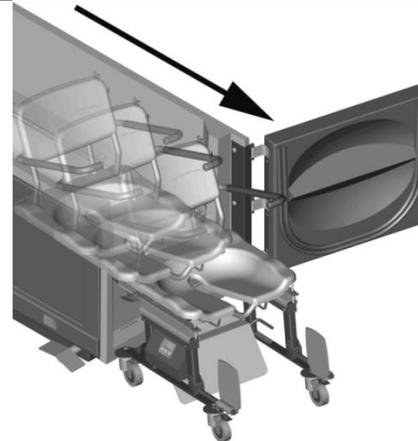
Transferring Chair/Resident out of tub...

Open door.	
Dock carrier to tub. Verify carrier is secure by pulling carrier away from tub. Carrier should not release from tub.	
Lock the casters on the carrier.	
Lower arm rests into the down position.	

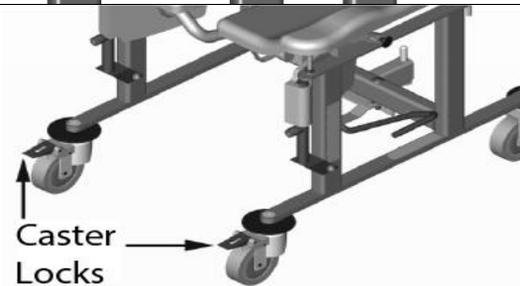
Disconnect black **Safety Strap** connecting the chair to the tub.



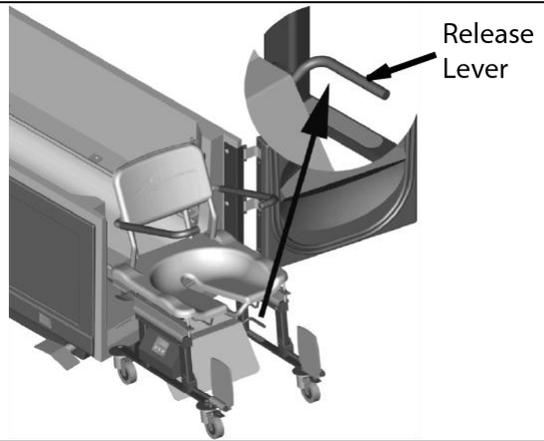
Slide chair out of tub and fully onto the carrier until the **Chair Tab** touches the stop block and the **Red Rail Caps** are fully behind the front edge of chair. Ensure that the **Primary Lock** is engaged. Verify the chair is locked to carrier by pushing the chair back towards tub. If chair is secure, it will not be able to move into the tub.



Unlock the casters on the carrier.



Step down on **Release Lever** to unlatch carrier from tub and move resident and carrier safely away from tub.



Remedy® UV Infection Protection™ System

Cleaning & Disinfecting

Remedy® UV Infection Protection™ System (if applicable)

Your bathing system is equipped with Remedy® UV Infection Protection™ System, an electronic germicidal ultraviolet (UV) light disinfecting system.

When you operate the bathing system, the bath water is continuously circulated through two ultraviolet chambers, where the water passes over and around two UV lamps.

The UV light is monitored electronically, and the two green indicator lights show that the UV light is sufficient to disinfect.

The Remedy® UV Infection Protection™ System is automatic; it turns on and off with the whirlpool operation and has no separate controls.

Use only ultraviolet transmissible cleaners, disinfectants, soaps, and bath oils; such as Apollo's Turbo Clean™ Pre-disinfectant Chelating Detergent, Cid-A-L™ II Quaternary Disinfectant, Hygena™ Shampoo and Body Wash, and Therasol™ Natural Bath Oil. Use of other cleaners, soaps, and bath oils is not recommended and could compromise the Remedy® UV Infection Protection™ System.

Cleaning & Disinfecting

Your Advantage™ Bathing System arrived with an Advantage™ Intro Pack which includes Turbo Clean™ Pre-disinfectant Chelating Detergent and Cid-A-L™ II Quaternary Disinfectant. Turbo Clean™ is used after each bath to remove residue, bacteria and gross soils. Cid-A-L™ II is used after each cleaning to effectively kill bath-borne bacteria, fungi and viruses.

Your Advantage™ Bathing System is calibrated to dilute Turbo Clean™ and Cid-A-L™ II at the exact mixture stipulated by the manufacturer's instructions. Use of other cleaners and disinfectants is not recommended and could compromise the overall process.

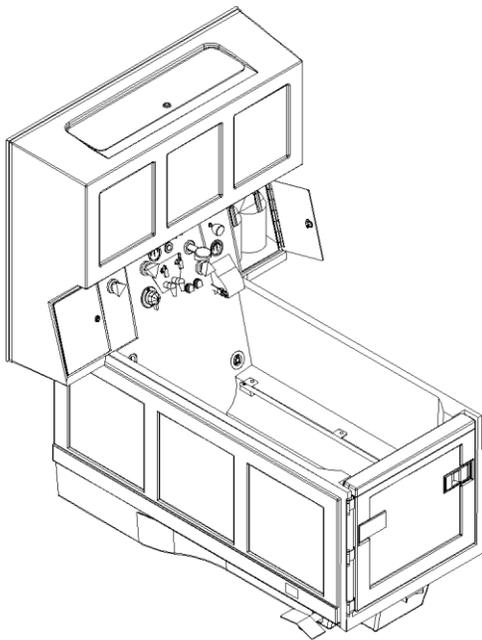
With Remedy® UV Infection Protection™ System

- Always follow the Cleaning Procedure after every bath.
- It is not necessary to follow the Disinfecting Procedure after every bath in the same bathing session.
- For a Special Care Resident or in the event potentially infectious matter is released into the tub (e.g. fecal matter, wound debridement, blood, mucus, etc.), consult infection control management to determine if terminal disinfecting (Disinfecting Procedure) is required before using again.
- Always follow the Disinfecting Procedure after the last bath of the bathing session.

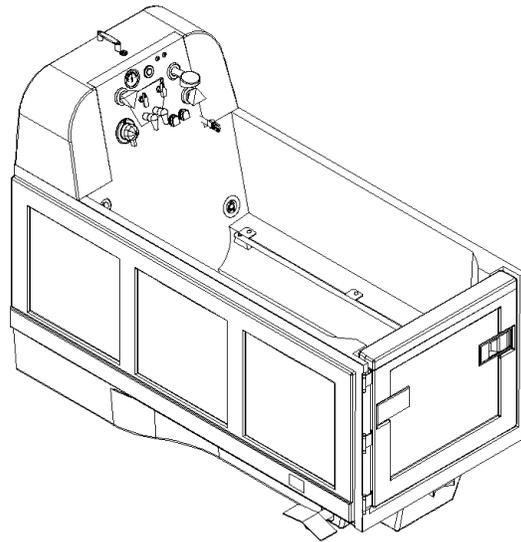
Without Remedy® UV Infection Protection™ System

- Always follow the Cleaning and Disinfecting Procedure after every bath.

Whirlpool Advantage™ Bathing System



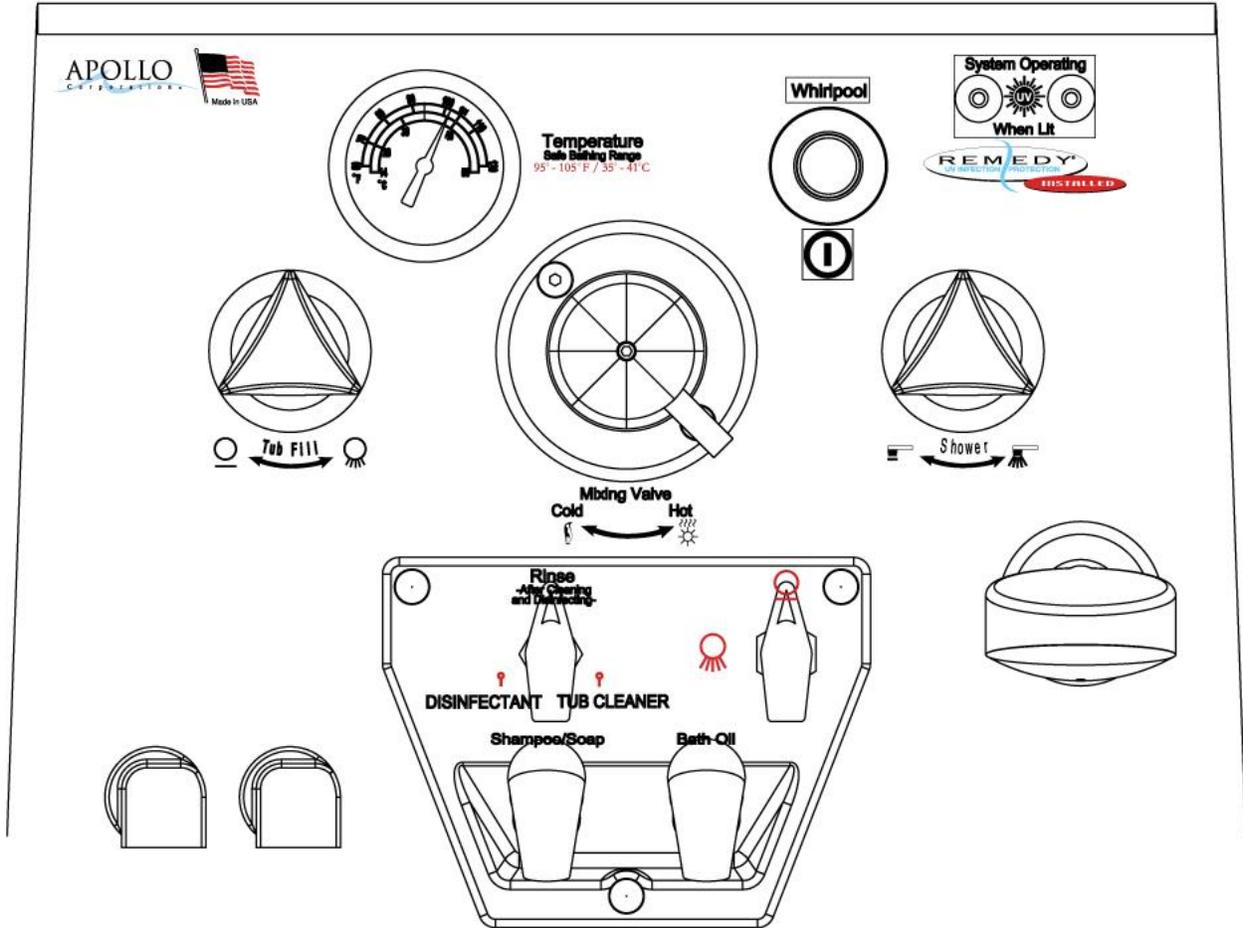
6000 Series



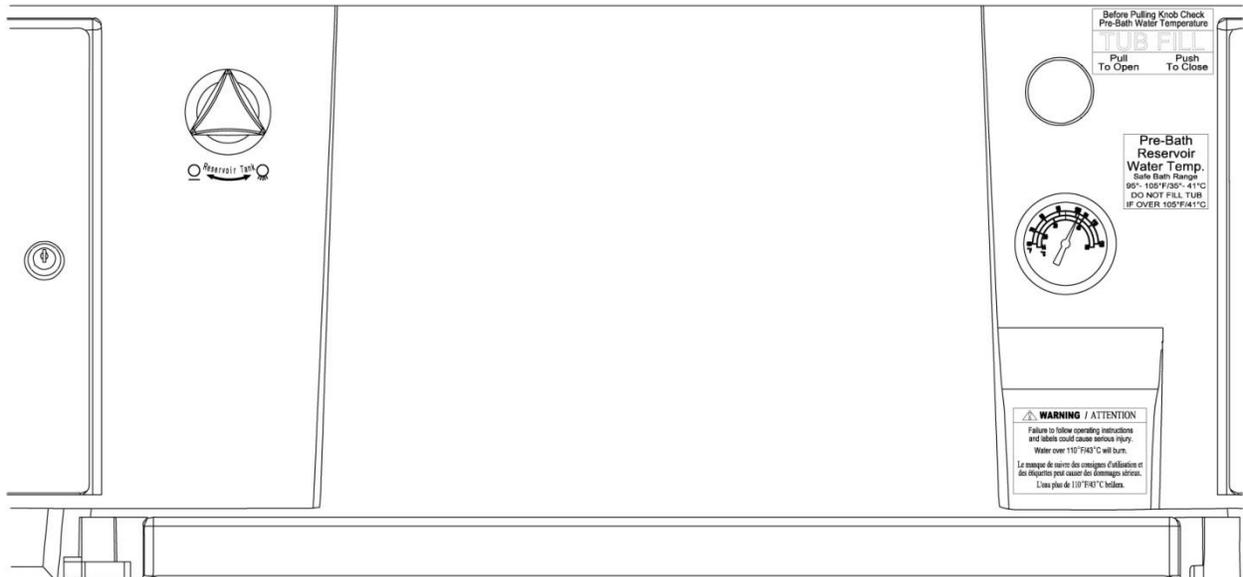
6300 Series

Whirlpool Advantage™ Bathing System

Whirlpool Control Panel



Rapid Fill™ Reservoir Panel (if applicable)



Select Water Temperature

First bath of the day.

Note: A safe bathing temperature is 95-105°F (35-41°C). Water must be entering the system (Manual Filling or Rapid Fill™ Reservoir Filling) in order for the temperature gauge to read accurately.

Tub Filling from Manual Valve

Attention: Monitor water temperature. Do not use if water temperature is above 105°F (41°C).

1. Close Tub Drain.
2. Turn Tub Fill Valve on.
3. Adjust Mixing Valve to maintain a water temperature of 95-105°F (35-41°C).
4. Turn Tub Fill Valve off when the tub is filled to desired level.

Operate Shower Wand

1. Pull Shower Wand out of holder, direct wand away from resident.
2. Turn Shower Knob on.
3. Adjust Mixing Valve to maintain a water temperature of 95-105°F (35-41°C).
4. Turn Shower Knob off.
5. Retract Shower Wand.

Whirlpool Operation

Note: Water level should be above the upper jets prior to starting the whirlpool.

1. Push the Whirlpool Button to start the whirlpool.
2. Push the Whirlpool Button to stop the whirlpool.

Drain Bathing System

1. Open Tub Drain.

Rapid Fill™ Reservoir Filling (if applicable)

Attention: Monitor water temperature. Do not use if water temperature is above 105°F (41°C).

1. Push the Tub Fill Lever to Close.
2. Turn the Reservoir Fill Valve on.
3. Adjust the Mixing Valve to maintain a water temperature of 95-105°F (35-41°C).
4. Verify the reservoir water temperature is about the same as the incoming water temperature.
5. Verify the water shuts off when the reservoir is full.

Note: Water will continue to run refilling the reservoir after the tub has filled unless the Reservoir Fill Valve is turned off.

Tub Filling from Rapid Fill™ Reservoir (if applicable)

1. Pull the Tub Fill Lever to Open.
2. Feel water entering the tub to assure comfortable temperature. If the water is uncomfortably warm, close the Tub Fill Lever, drain the tub, and contact maintenance.

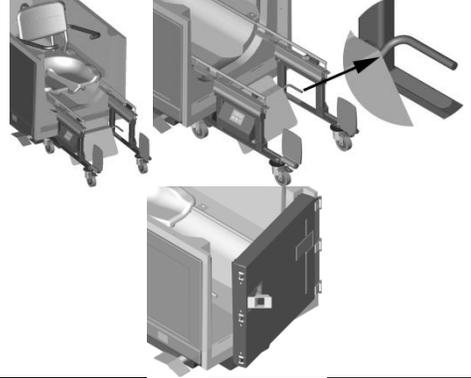
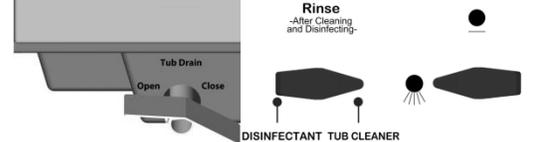
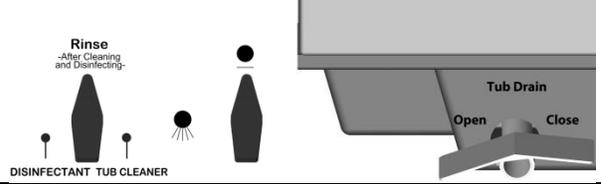
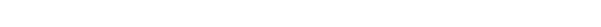
Drain Rapid Fill™ Reservoir

1. Turn Reservoir Fill Valve off.
2. Pull the Tub Fill Lever to Open.
3. Open Tub Drain.

Note: Do not leave water in reservoir between bathing sessions or overnight.

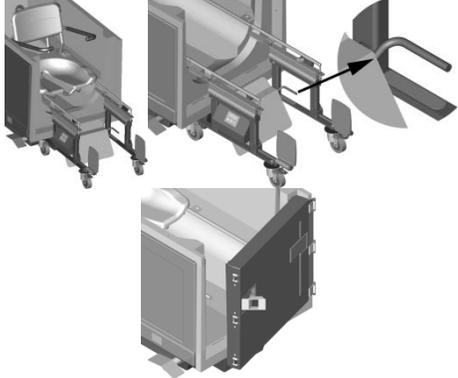
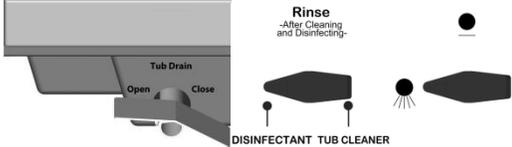
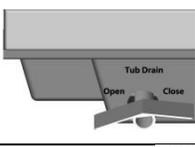
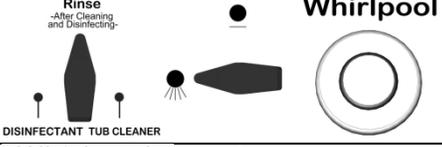
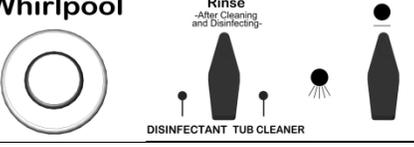
Whirlpool Cleaning Procedure

Your Apollo Advantage™ Bathing System arrived with an Advantage™ Intro Pack which includes Turbo Clean™ Pre-disinfectant Chelating Detergent. Turbo Clean™ is used after each bath to remove residue, bacteria and gross soils. Your Advantage™ Bathing System is calibrated to dilute Turbo Clean™ at the exact mixture stipulated by the manufacturer's instructions. Use of other cleaners is not recommended and could compromise the overall process.

Whirlpool Bath Cleaning Process	
<p>Place the chair in the tub, release the carrier from the tub, and close the door.</p>	
<p>Close the Tub Drain. Turn the Selector Knob to "TUB CLEANER" and the Control Knob to "On."</p>	
<p>Turn the whirlpool on. After the Turbo Clean™ mixture has come out of the jets for about 30 seconds or when there is about 2 inches of cleaning solution in the foot well; turn the Selector Knob to "Rinse."</p>	
<p>Lift seat bottom off chair, (pull up from back of seat). Use the cleaning solution to scrub the tub, chair and underneath seat bottom. When clear water comes out of all the jets, turn the whirlpool off.</p>	
<p>Turn the Control Knob to "Off" and open the Tub Drain.</p>	
<p>Use the shower wand to rinse the tub and chair.</p>	

Whirlpool Disinfecting Procedure

Your Apollo Advantage™ Bathing System arrived with an Advantage™ Intro Pack which includes Cid-A-L™ II Quaternary Disinfectant. Cid-A-L™ II is used after each cleaning to effectively kill bath-borne bacteria, fungi and viruses. Your Advantage™ Bathing System is calibrated to dilute Cid-A-L™ II at the exact mixture stipulated by the manufacturer's instructions. Use of other disinfectants is not recommended and could compromise the overall process.

Whirlpool Bath Disinfecting Process	
Place the chair in the tub, release the carrier from the tub, and close the door.	
Close the Tub Drain. Turn the Selector Knob to "DISINFECTANT" and the Control Knob to "On."	
Turn the whirlpool on. When there is about 2 inches of disinfectant in the foot well, turn the whirlpool off. Turn the Control Knob to "Off."	
Lift seat bottom off chair, (pull up from back of seat). Use the disinfecting solution to scrub the tub, chair and underneath seat bottom. Leave wet for 10 minutes. Open the Tub Drain.	
After 10 minutes, turn the Selector Knob to "Rinse" and the Control Knob to "On." Turn the whirlpool on.	
When clear water comes out of all the jets, turn the whirlpool off. Turn the Control Knob to "Off."	
Use the shower wand to rinse the tub and chair.	

Reservoir Holding Tank Cleaning & Disinfecting Procedure

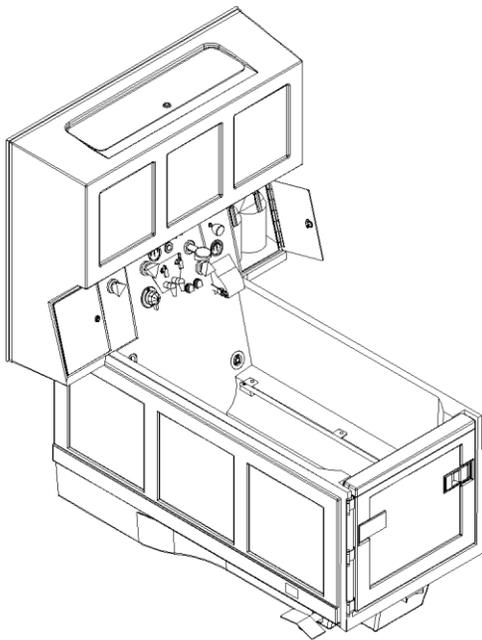
To minimize the likelihood of contamination or bio-film growth, it is imperative that the reservoir tank be drained after the last bath every night and allowed to dry. The reservoir tub fill valve should be opened and left open to allow full drainage. The door on the tub should be closed to prevent water spills when draining the reservoir.

The tank must be visually inspected monthly to assure it remains clean. If hard water deposits develop the tank should be cleaned with Turbo Clean™ Pre-disinfectant Cleaner. If bio-film or other residues develop, the tank should be cleaned with Turbo Clean™ Pre-disinfectant Cleaner and disinfected with Cid-A-L™ II Quaternary Disinfectant. Follow the instructions below for cleaning and disinfecting as necessary:

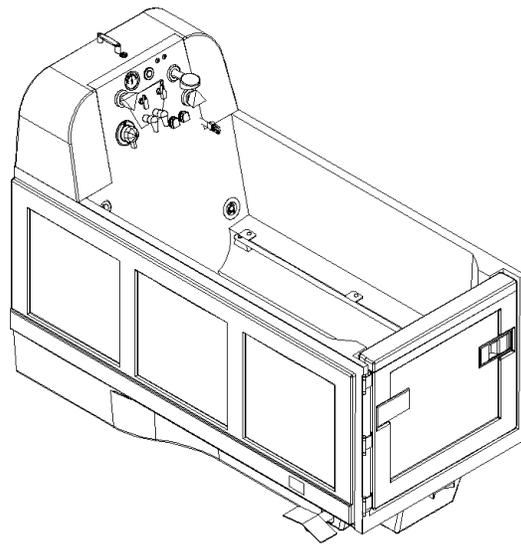
- Fill the bottom of the reservoir with about 5-6 inches of warm water. Add 7-8 ounces of Turbo Clean™ Pre-disinfectant Cleaner. Using a long-handled, soft bristled brush, scrub the inside of the tank with the cleaning mixture. When finished, drain the cleaning solution from the reservoir (with the tub door closed), and either use the shower wand to spray rinse the inside of the tank or simply fill the tank until full. Drain the reservoir into the tub and allow water to completely drain out of the tub. Finish by rinsing the tub with the shower wand.
- To disinfect the reservoir tank, fill the bottom of the tank with 5-6 inches of water. Add 7-8 ounces of Cid-A-L™ II Quaternary Disinfectant. Scrub all inside surfaces with the disinfecting solution. Keep the tank surfaces wet with the mixture for at least 10 minutes. Drain (with the tub door closed). Rinse clean the inside of the tank using the shower wand or fill the reservoir tank with fresh water. Drain again, rinse the tub, and allow the tank to dry.

When disinfecting in response to a possible contamination by a specific pathogen, consult the Cid-A-L list of pathogens for which it is effective. For disinfection with other antibacterial chemicals, consult with your infection control specialist and the manufacturer's direction for proper procedures and dilution ratios. When finished, drain and rinse inside of the tank using the shower wand or fill the tank with fresh water. Drain again, rinse the tub, and allow the tank to dry.

Air Spa Advantage™ Bathing System



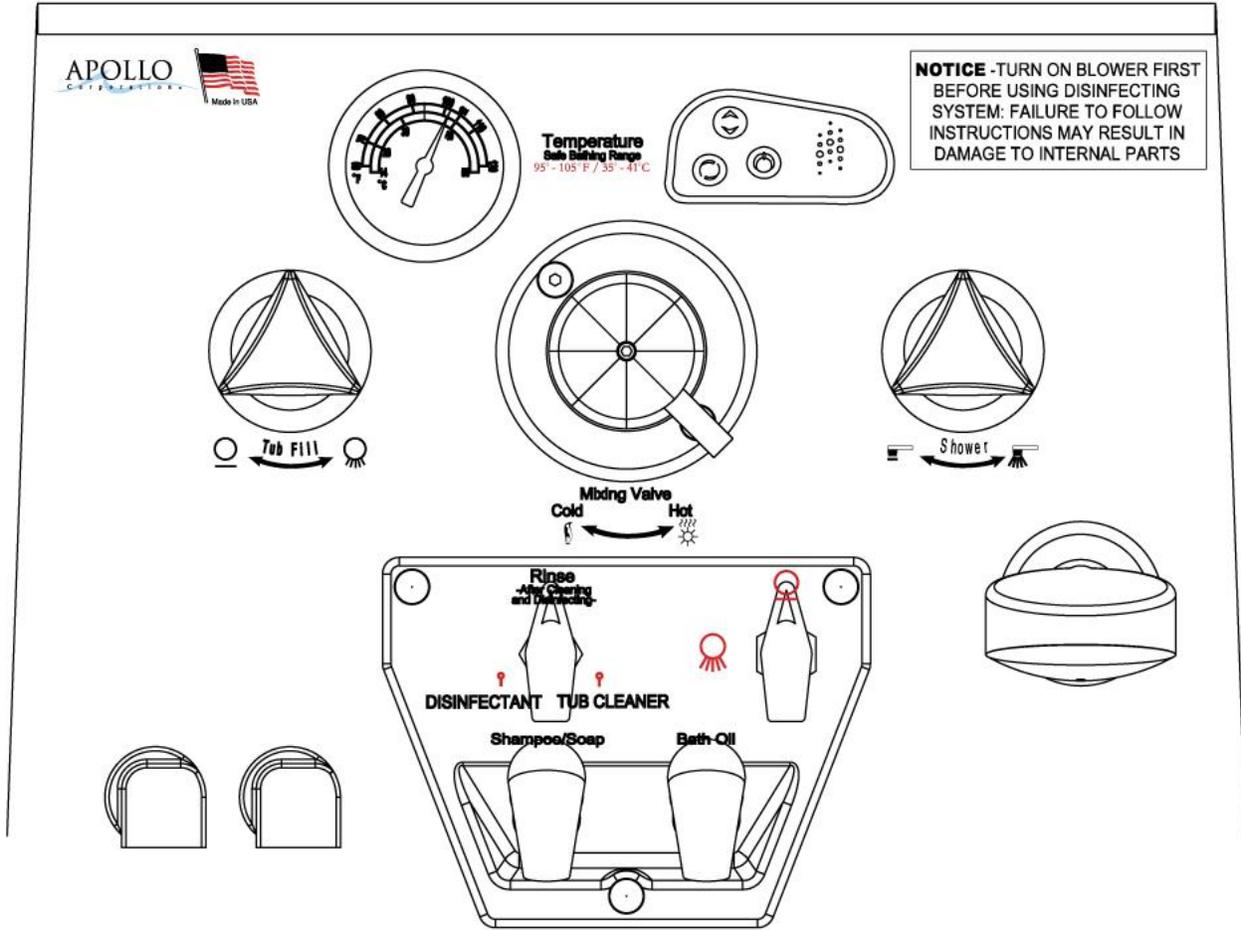
6000 Series



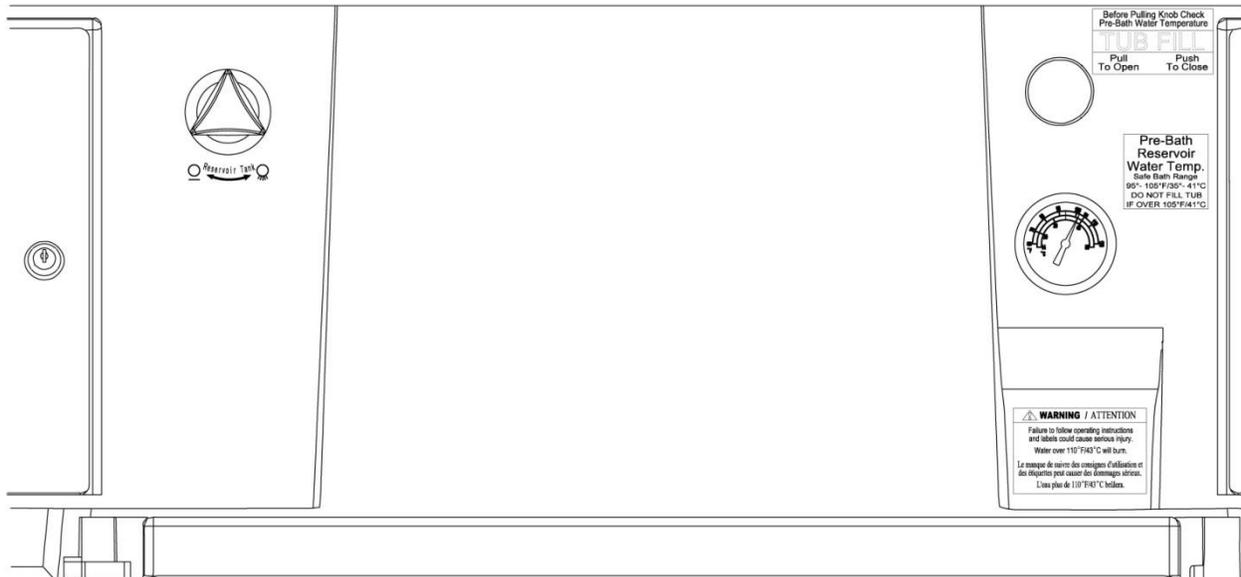
6300 Series

Air Spa Advantage™ Bathing System

Air Spa Control Panel



Rapid Fill™ Reservoir (if applicable)



Select Water Temperature

First bath of the day.

Note: A safe bathing temperature is 95-105°F (35-41°C). Water must be entering the system (Manual Filling or Rapid Fill™ Reservoir Filling) in order for the temperature gauge to read accurately.

Tub Filling from Manual Valve

Attention: Monitor water temperature. Do not use if water temperature is above 105°F (41°C).

1. Close Tub Drain.
2. Turn Tub Fill Valve on.
3. Adjust Mixing Valve to maintain a water temperature of 95-105°F (35-41°C).
4. Turn Tub Fill Valve off when the tub is filled to desired level.

Operate Shower Wand

1. Pull Shower Wand out of holder, direct wand away from resident.
2. Turn Shower Knob on.
3. Adjust Mixing Valve to maintain a water temperature of 95-105°F (35-41°C).
4. Turn Shower Knob off.
5. Retract Shower Wand.

Air Spa Operation

1. Push the On/Off Button to start the Blower.
2. Adjust the Blower speed by pushing the +/- Button.
3. Push the Pulse Button to enter Pulse Mode 1; push it again to enter Pulse Mode 2.
4. Push the On/Off Button to stop the Blower.

Note: The Air Spa Advantage™ Bathing System is designed to automatically shut off after 20 minutes of continuous use. It is also equipped with an infection control feature that automatically runs a purge cycle that blows the internal air lines dry after 20 minutes of non-use. If the bath is used before 20 minutes, the automatic purge cycle timer is reset.

Drain Bathing System

1. Open Tub Drain.

Rapid Fill™ Reservoir Filling (if applicable)

Attention: Monitor water temperature. Do not use if water temperature is above 105°F (41°C).

1. Push the Tub Fill Lever to Close.
2. Turn the Reservoir Fill Valve on.
3. Adjust the Mixing Valve to maintain a water temperature of 95-105°F (35-41°C).
4. Verify the reservoir water temperature is about the same as the incoming water temperature.
5. Verify the water shuts off when the reservoir is full.

Note: Water will continue to run refilling the reservoir after the tub has filled unless the Reservoir Fill Valve is turned off.

Tub Filling from Rapid Fill™ Reservoir (if applicable)

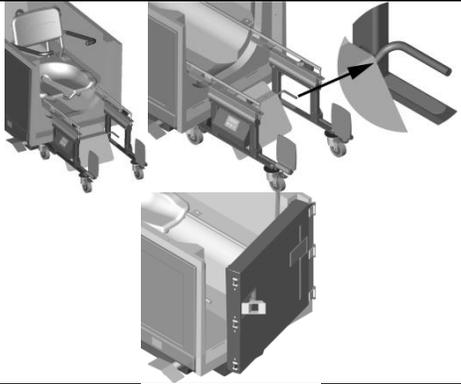
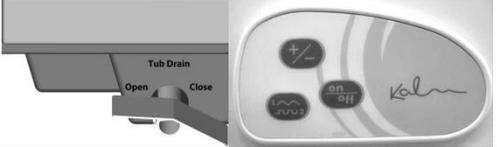
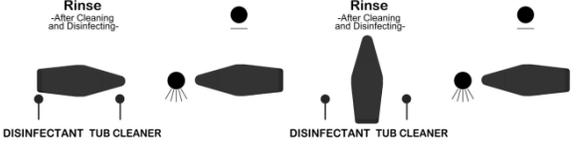
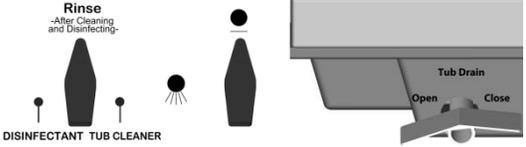
1. Pull the Tub Fill Lever to Open.
2. Feel water entering the tub to assure comfortable temperature. If the water is uncomfortably warm, close the Tub Fill Lever, drain the tub, and contact maintenance.

Drain Rapid Fill™ Reservoir

1. Turn Reservoir Fill Valve off.
2. Pull the Tub Fill Lever to Open.
3. Open Tub Drain.

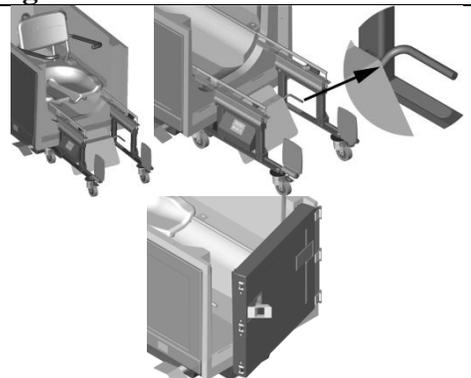
Air Spa Cleaning Procedure

Your Apollo Advantage™ Bathing System arrived with an Advantage™ Intro Pack which includes Turbo Clean™ Pre-disinfectant Chelating Detergent. Turbo Clean™ is used after each bath to remove residue, bacteria and gross soils. Your Advantage™ Bathing System is calibrated to dilute Turbo Clean™ at the exact mixture stipulated by the manufacturer's instructions. Use of other cleaners is not recommended and could compromise the overall process.

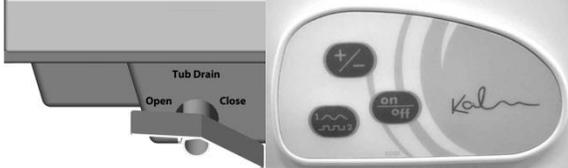
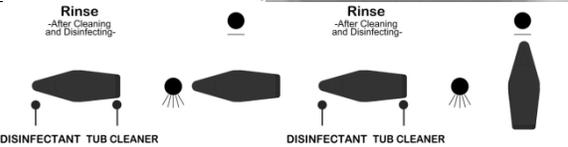
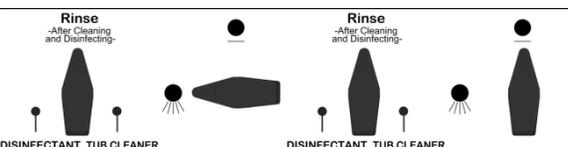
Air Spa Bath Cleaning Process	
<p>Place the chair in the tub, release the carrier from the tub, and close the door.</p>	
<p>NOTICE – TURN ON BLOWER FIRST BEFORE USING DISINFECTING SYSTEM: FAILURE TO FOLLOW INSTRUCTIONS MAY RESULT IN DAMAGE TO INTERNAL PARTS.</p>	
<p>Close the Tub Drain. Turn the Blower on.</p>	
<p>Turn the Selector Knob to "TUB CLEANER" and the Control Knob to "On." After the Turbo Clean™ mixture has come out of the outlets for about 30 seconds or when there is about 2 inches of cleaning solution in the foot well; turn the Selector Knob to "Rinse."</p>	
<p>Lift seat bottom off chair, (pull up from back of seat). Use the cleaning solution to scrub the tub, chair and underneath seat bottom. When clear water comes out of all outlets, turn the Control Knob to "Off." Open the Tub Drain.</p>	
<p>Leave the Blower on for 60 seconds to force the remaining clear water out of the air lines. Turn the Blower off. Use the shower wand to rinse the tub and chair.</p>	

Air Spa Disinfecting Procedure

Your Apollo Advantage™ Bathing System arrived with an Advantage™ Intro Pack which includes Cid-A-L™ II Quaternary Disinfectant. Cid-A-L™ II is used after each cleaning to effectively kill bath-borne bacteria, fungi and viruses. Your Advantage™ Bathing System is calibrated to dilute Cid-A-L™ II at the exact mixture stipulated by the manufacturer's instructions. Use of other disinfectants is not recommended and could compromise the overall process.

Air Spa Bath Disinfecting Process	
<p>Place the chair in the tub, release the carrier from the tub, and close the door.</p>	

NOTICE – TURN ON BLOWER FIRST BEFORE USING DISINFECTING SYSTEM: FAILURE TO FOLLOW INSTRUCTIONS MAY RESULT IN DAMAGE TO INTERNAL PARTS.

<p>Close the Tub Drain. Turn the Blower on.</p>	
<p>Turn the Selector Knob to "DISINFECTANT" and the Control Knob to "On." When there is about 2 inches of disinfectant in the foot well, turn the Control Knob "Off."</p>	
<p>Turn the Blower off. Lift seat bottom off chair, (pull up from back of seat). Use the disinfecting solution to scrub the tub, chair and underneath seat bottom. Leave wet for 10 minutes. Open the Tub Drain.</p>	
<p>After 10 minutes, turn the Blower on. Turn the Selector Knob to "Rinse" and the Control Knob to "On." When clear water comes out of all outlets, turn the Control Knob to "Off."</p>	
<p>Leave the Blower on for 60 seconds to force the remaining clear water out of the air lines. Turn the Blower off. Use the shower wand to rinse the tub and chair.</p>	

Reservoir Holding Tank Cleaning & Disinfecting Procedure

To minimize the likelihood of contamination or bio-film growth, it is imperative that the reservoir tank be drained after the last bath every night and allowed to dry. The reservoir tub fill valve should be opened and left open to allow full drainage. The door on the tub should be closed to prevent water spills when draining the reservoir.

The tank must be visually inspected monthly to assure it remains clean. If hard water deposits develop the tank should be cleaned with Turbo Clean™ Pre-disinfectant Cleaner. If bio-film or other residues develop, the tank should be cleaned with Turbo Clean™ Pre-disinfectant Cleaner and disinfected with Cid-A-L™ II Quaternary Disinfectant. Follow the instructions below for cleaning and disinfecting as necessary:

- Fill the bottom of the reservoir with about 5-6 inches of warm water. Add 7-8 ounces of Turbo Clean™ Pre-disinfectant Cleaner. Using a long-handled, soft bristled brush, scrub the inside of the tank with the cleaning mixture. When finished, drain the cleaning solution from the reservoir (with the tub door closed), and either use the shower wand to spray rinse the inside of the tank or simply fill the tank until full. Drain the reservoir into the tub and allow water to completely drain out of the tub. Finish by rinsing the tub with the shower wand.
- To disinfect the reservoir tank, fill the bottom of the tank with 5-6 inches of water. Add 7-8 ounces of Cid-A-L™ II Quaternary Disinfectant. Scrub all inside surfaces with the disinfecting solution. Keep the tank surfaces wet with the mixture for at least 10 minutes. Drain (with the tub door closed). Rinse clean the inside of the tank using the shower wand or fill the reservoir tank with fresh water. Drain again, rinse the tub, and allow the tank to dry.

When disinfecting in response to a possible contamination by a specific pathogen, consult the Cid-A-L list of pathogens for which it is effective. For disinfection with other antibacterial chemicals, consult with your infection control specialist and the manufacturer's direction for proper procedures and dilution ratios. When finished, drain and rinse inside of the tank using the shower wand or fill the tank with fresh water. Drain again, rinse the tub, and allow the tank to dry.

Level Glide™ Transfer System



Level Glide™ Transfer System

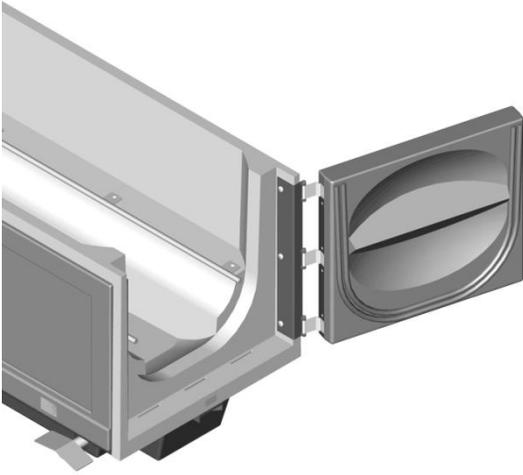
The Level Glide™ Transfer System provides a fast and dignified way to help residents enter and exit the Advantage™ Bathing System, eliminating the need for hazardous and time-consuming resident lifts. To ensure you realize the maximum usefulness and safety of the Level Glide™ Transfer System, it is necessary for the system to be properly installed, adjusted, and maintained. This installation guide provides the information needed to correctly install and adjust your Level Glide™ Transfer System. Failure to follow the instructions given in this guide could result in injuries to residents or attendants.



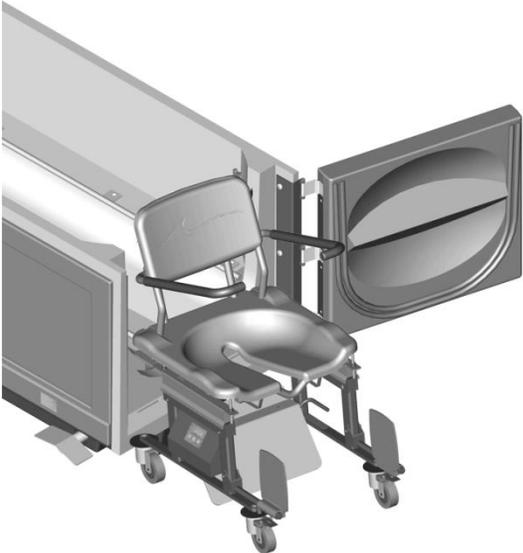
Level Glide™ Transfer System Installation

Attention: Make sure carrier is securely attached and aligned with tub. Carrier latching pin and rail alignment must be adjusted before use. Tub must be level to align carrier.

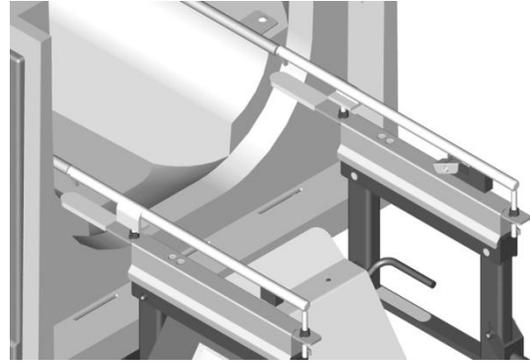
1. Open tub door.



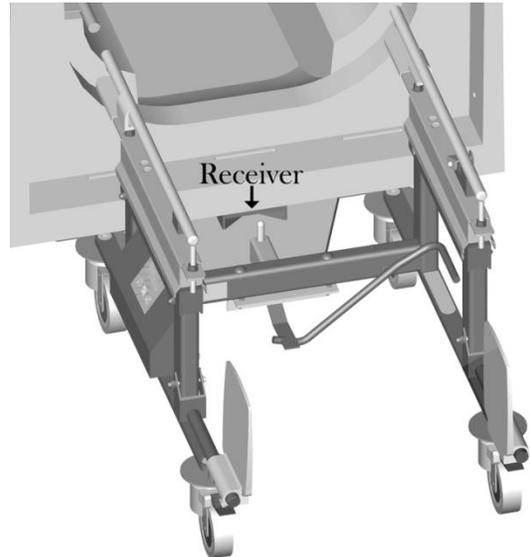
2. Place carrier in front of door.



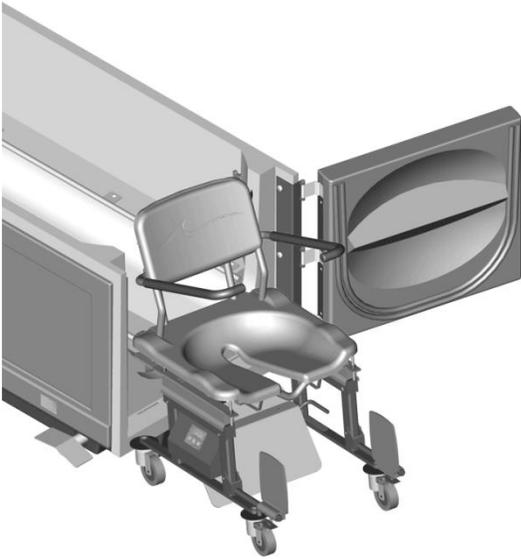
Note: Carrier rails must be in-line and aligned with tub rails.



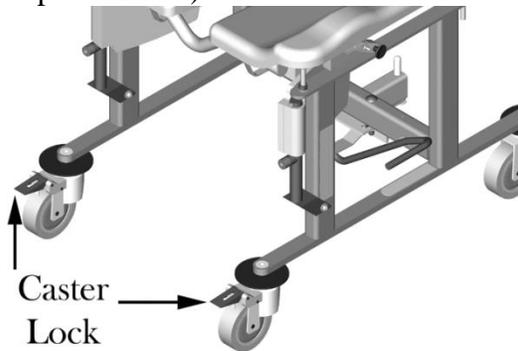
Attention: Push gently. Do not force latching pin into pin receiver. If pin will not latch, proceed to Check and Adjust Latching Pin.



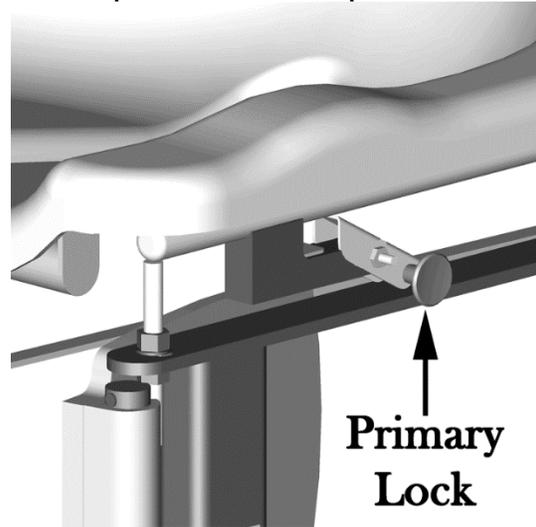
3. Latch carrier to tub.



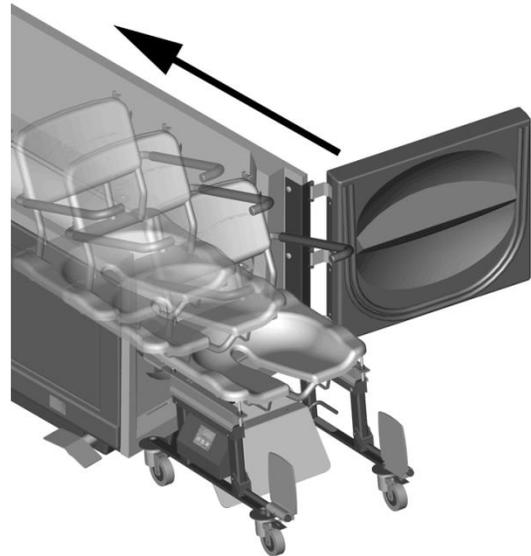
4. Lock casters. (Press down to lock. Lift up to release.)



5. Release Primary Lock. Primary Lock lifts up to clear chair stop.

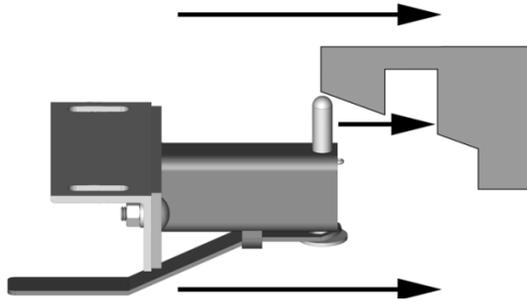


6. Move chair onto tub rails.

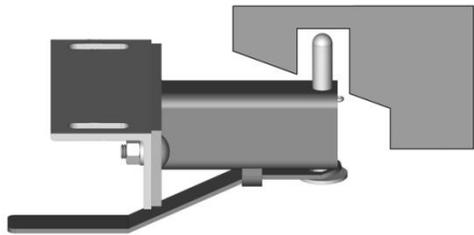


Note: Chair rails must be adjusted up to tub rails for chair to move.

7. Check & Adjust Latching Pin to Receiver.



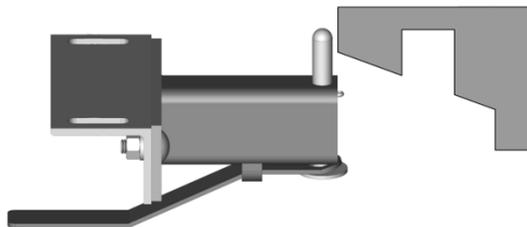
Pin is latched correctly



Attention: When adjusting carrier pin, verify docking pin is secure in receiver when carrier is docked to tub. With weight on chair, move chair in and out of tub forcefully hitting carrier stop. Carrier must not disengage from tub.

Pin Hits Receiver Top.

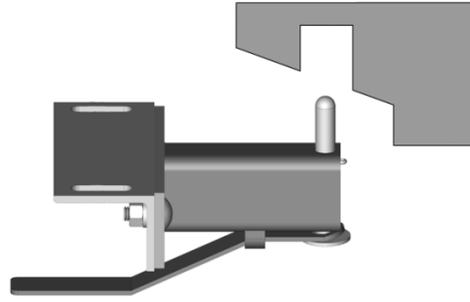
Pin is too high



Adjust vertical position.

Pin does not latch.

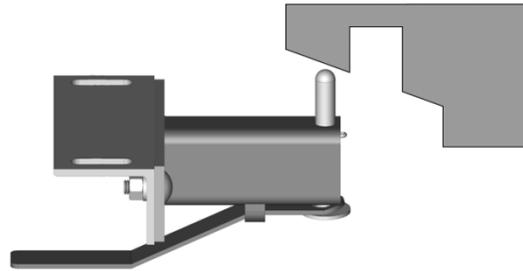
Pin is too low



Adjust vertical position.

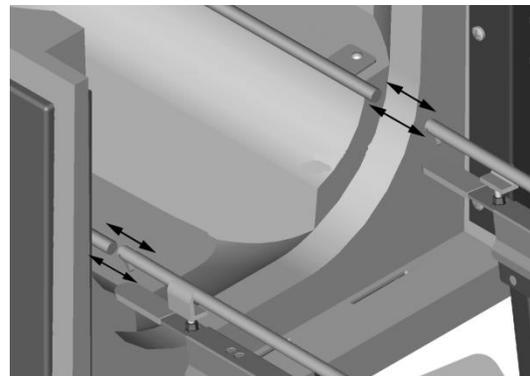
Pin does not latch.

Pin does not reach



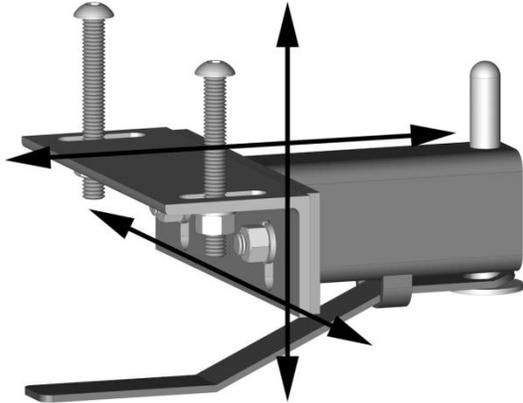
Adjust horizontal position.

Rails too far away?

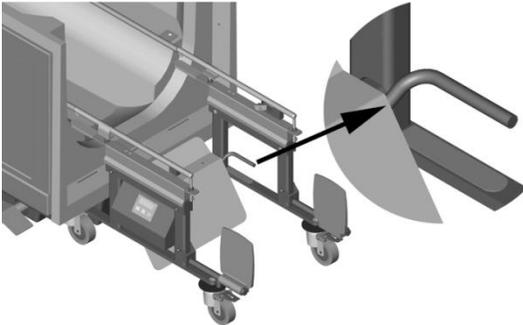


Adjust horizontal position.

8. Adjust horizontal, vertical and lateral positions.

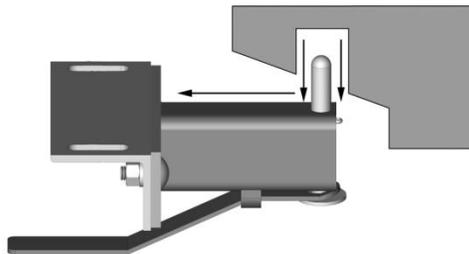


9. Release Latching Pin.



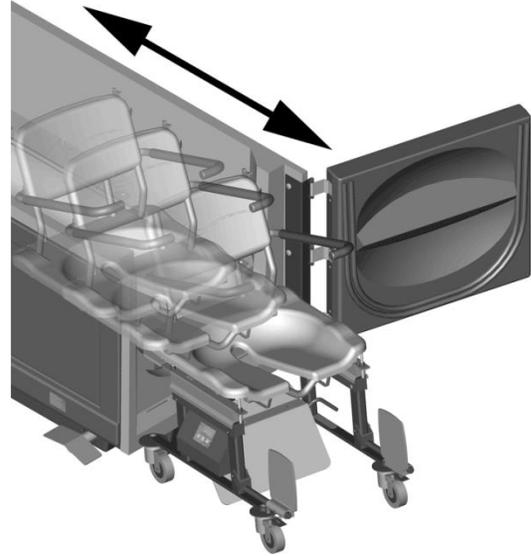
Unlock casters and release carrier from tub.

10. Carrier will not release from tub?
Carrier does not release



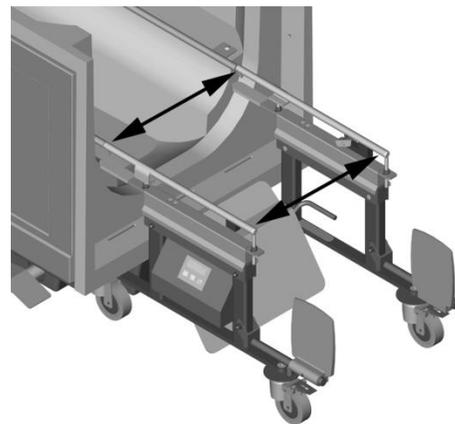
Re-adjust latching pin.

11. Check & Align Carrier Rails
Re-attach Carrier to Tub.
Move Chair between Carrier and Tub.

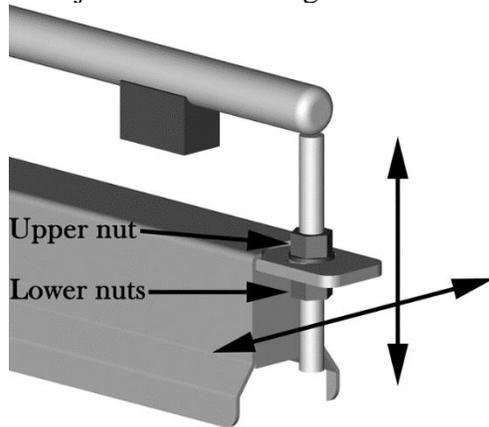


Verify chair does not rub or catch. Does chair transfer smoothly? If yes, proceed to return chair to carrier on page 50. If not, proceed to adjust carrier rail alignment on page 50.

Note: Left and right rails should be the same distance apart at both front and back ends and aligned with tub rails but never wider than the tub rails.



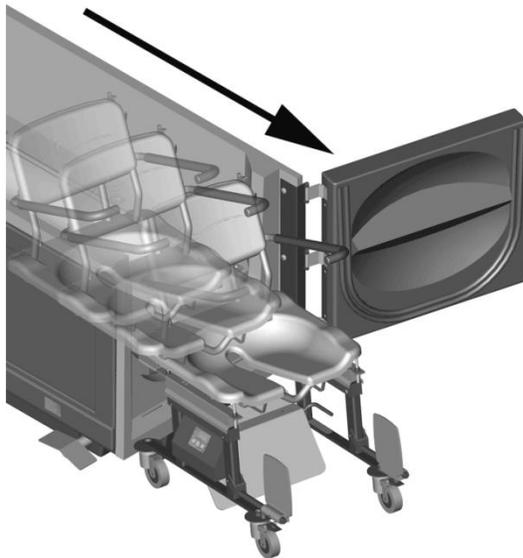
12. Adjust carrier rail alignment.



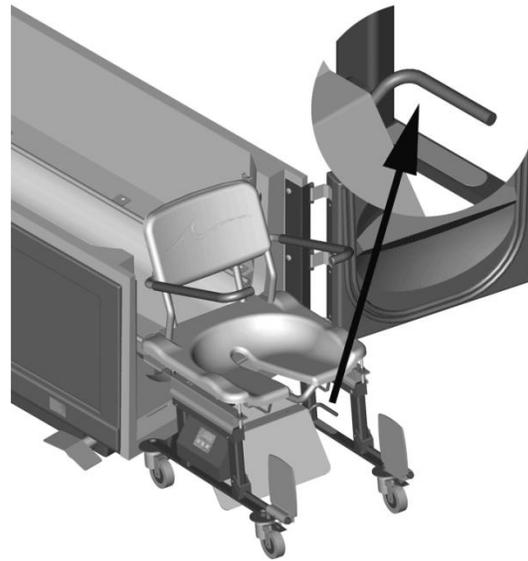
- 1) Loosen lower nut.
- 2) Turn upper nut to raise or lower rail.
- 3) Slide rail left or right to align with tub rails.
- 4) Tighten lower nut.

Attention: Make sure rails are tight and chair wheels are aligned with rails. Verify all fasteners and adjusting nuts are tight before using transfer system.

13. Return chair to carrier.



14. Release carrier from tub.



Apollo Mobile Digital Scale Operation

Before operating check to see that:

- A. The chair is locked into place on the carrier.
- B. The carrier is disconnected from the tub.
- C. Make sure scale carrier is on a hard level surface.
- D. Make sure that you are only weighing the resident - remove towels, robes, shoes, etc.

OPERATION:

1. To turn the scale on press the “ON/ZERO” pad. The display will go through a startup and settle on some weight or 0.0. If the display shows any number other than 0.0, press the ON/ZERO pad. The display will flash ZERo and go to 0.0. The scale is now ready for weighing.
2. Place the individual onto the stretcher/chair and lift them clear of contact with any fixed objects, i.e., bed or chair. This will ensure proper weighing.
3. Read the weight and record. If the display goes off before you read the weight, press the “ON/ZERO” pad one time to start the scale again and weight will be shown.
4. Be sure patient is not pushing on the floor with their feet.
5. Record the weight shown on the digital readout.

NOTE: The scale will shut off automatically after 20 seconds.

Be sure the Residents feet are not on the foot rests. For the most accurate weights, be sure the foot rests are down and the foot pads are flipped up and out of the way.

SEE ILLUSTRATION



Apollo Digital Scale Calibration (FFI)

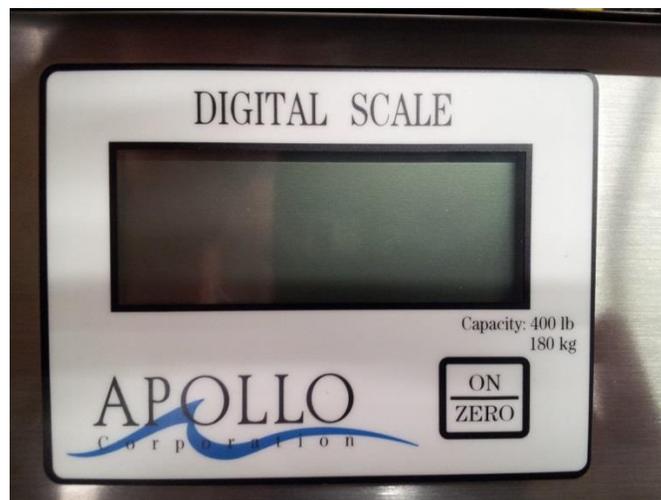
1. Press the **ON/ZERO** button to turn on the scale.
2. Press and hold the **ON/ZERO** button and then press the last **O** in **APOLLO**. **CALIBRATE** will be displayed and then **CAL – 0**.
3. Press the **ON/ZERO** button and **CAL – 25** will be displayed.
4. Place your known **25lb** weight on the chair seat (centered).
5. Press the **ON/ZERO** button. The display will briefly display a random reading and then quickly reduce down to **25 lb**. The scale now recognizes that weight as **25lbs**.
6. Remove the weight and the display will either stay at **25 lb** or it will return to **0**.
7. The scale is now calibrated to recognize your calibration weight as **25 lbs**.
8. As a final check for accuracy, you may turn on the scale and zero it. Then have someone sit in the chair and record their weight. Hand them the **25 lb** weight and their weight should increase by **25 lbs**. This confirms the accuracy of the scale as it gets up into the higher weights.

Note: It is extremely important that the weight you use to calibrate your scale is exactly 25lbs. If not, the more ounces you are off either to the heavy or light side, will affect your residents' weights.

If **CONV** appears, it usually means the hidden button behind the last "**O**" was pressed before the **ON/ZERO** button was pressed. The button converts the scale between **lbs** and **kg** when pressed.

The scale also has a last weight recall function. By pressing the first "**O**" in **APOLLO**, the last weight will be displayed.

Note: This scale is not waterproof - Not for showering



Maintenance

Maintenance

UV Lamp/Quartz Tube Installation/Replacement Instructions

WARNING: The quartz tubes and UV lamps are made of glass, and as such are very fragile. Handle the quartz tubes and UV lamps carefully at all times.

CAUTION: Do not touch the UV lamp glass with your fingers.

Replace the UV Lamp

1. Gently pull the black retainer from the end of the Remedy® chamber.
2. Unplug the four-pin socket from the wire harness to the UV lamp.
3. Carefully remove the UV lamp from the quartz tube inside the Remedy® chamber.

CAUTION: Do not touch the UV lamp glass with your fingers. Only handle the UV lamp by the ceramic ends.

IMPORTANT: Be sure to pull the UV lamp straight away from the Remedy® chamber until it is clear of the structure; if the UV lamp is not removed straight and carefully, it may crack or break the fragile quartz tube.

4. Carefully slide a UV lamp into the quartz tube inside the Remedy® chamber. As before, be sure to insert the UV lamp straight and carefully, so you do not crack or break the quartz tube (or the UV lamp).
5. Plug the 4-pin socket from the wire harness into the UV lamp.
6. Secure the UV lamp into the Remedy® chamber with the black retainer.

Replace the Quartz Tube

1. Gently pull the black retainer from the end of the Remedy® chamber.
2. Unplug the four-pin socket from the wire harness to the UV lamp.
3. Carefully remove the UV lamp from the quartz tube inside the Remedy® chamber.

CAUTION: Do not touch the UV lamp glass with your fingers. Only handle the UV lamp by the ceramic ends.

IMPORTANT: Be sure to pull the UV lamp straight away from the Remedy® chamber until it is clear of the structure; if the lamp is not removed straight and carefully, it may crack or break the fragile quartz tube.

4. Unscrew the PVC Reducer Bushing from the end of the Remedy® tank chamber.
5. Now that the quartz tube is empty, place one finger inside the quartz tube and apply very gentle pressure to the inside of the quartz tube and carefully pull. With the other hand, gently push on the opposite end of the quartz tube. This should allow the quartz tube to slide out of the Remedy® chamber. Remove the O-rings from the Remedy® chamber (if they did not come out with the quartz tube).

IMPORTANT: Be sure to pull the quartz tube straight away from the Remedy® chamber until it is clear of the structure; if the quartz tube is not removed straight and carefully, it may crack or break.

6. If you are replacing a broken quartz tube, check the inside of the Remedy® chamber to insure there is no broken glass or debris inside the chamber.
7. Seat one of the O-rings inside one end of the Remedy® chamber.
8. Screw in the retaining nut until it touches the O-ring to secure the O-ring in place.
9. Slide your second O-ring over one end of the quartz tube approximately 1in to 1.25in (2.54cm – 3.17cm).
10. Carefully slide the other end of the quartz tube into the Remedy® chamber until it touches the O-ring secured by the retaining nut.

IMPORTANT: Be sure to slide the quartz tube into the Remedy® chamber carefully and straight. If this is not done, the quartz tube could crack or break.

11. While guiding the end of the quartz tube with one hand, gently push the quartz tube through the secured O-ring with the other hand until about 1in (2.54cm) of the quartz tube is through.
12. Screw the other retaining nut into the end of the Remedy® chamber. The quartz tube may try to slide while you are tightening this nut. To help with this, you can use a finger to hold the quartz tube in place while you tighten the retaining nut. Hand-tighten the retaining nuts.

IMPORTANT: Do not over-tighten the retaining nuts. If too much pressure is applied, it will cause damage to the quartz tube.

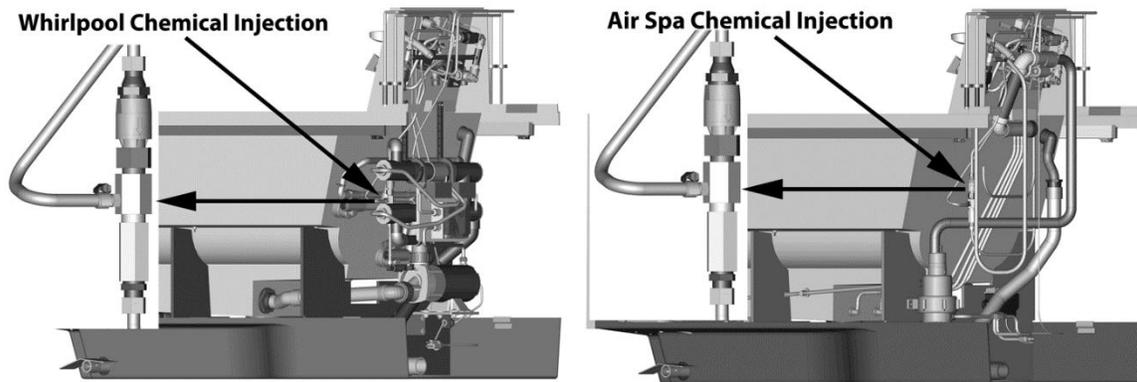
13. Check to make sure the quartz tube is centered. You should have roughly 0.75 of an inch (1.9cm) between the edge of the quartz tube and the end of the Remedy® chamber on either side. If this is not the case, loosen the retaining nuts, then apply gentle pressure to the quartz tube and slide it back and forth until you feel the quartz tube is centered properly. Retighten the retaining nuts.
14. Carefully slide a UV lamp into the quartz tube inside the Remedy® chamber. As before, be sure to insert the UV lamp straight and carefully, so you do not crack or break the fragile quartz tube or the UV lamp.
15. Plug the 4-pin socket from the wire harness into the UV lamp.
16. Secure the UV lamp into the Remedy® chamber with the black retainer.

Once you have replaced the UV Lamp/Quartz tube:

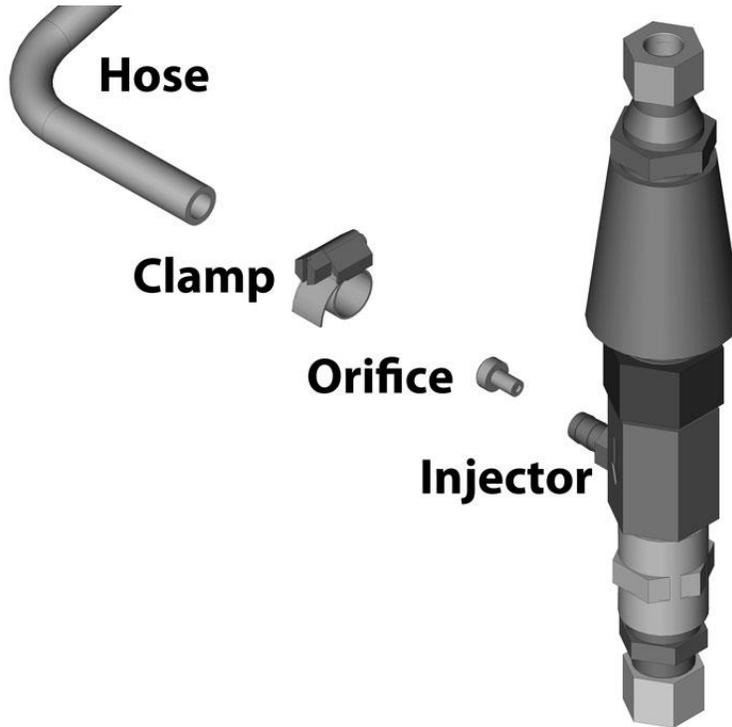
- Return power to the system.
- Fill the tub with water.
- Turn on the whirlpool motor.
- Check for leaks at the ends of the Remedy® chambers. If there are drips or leaks from the retaining nut areas, it is permissible to use a channel lock or similar tool to tighten the nuts up to a quarter turn.
- Verify that all four retaining nuts are sealing properly (no leaks).
- Verify that the UV lamps are operating.

Chemical Injection Orifice

The chemical injection orifice is accessed by removing the right side panel.



To change the orifice, loosen the hose clamp, remove the hose, and turn the orifice counter-clockwise to remove. Install new orifice by reversing this procedure.

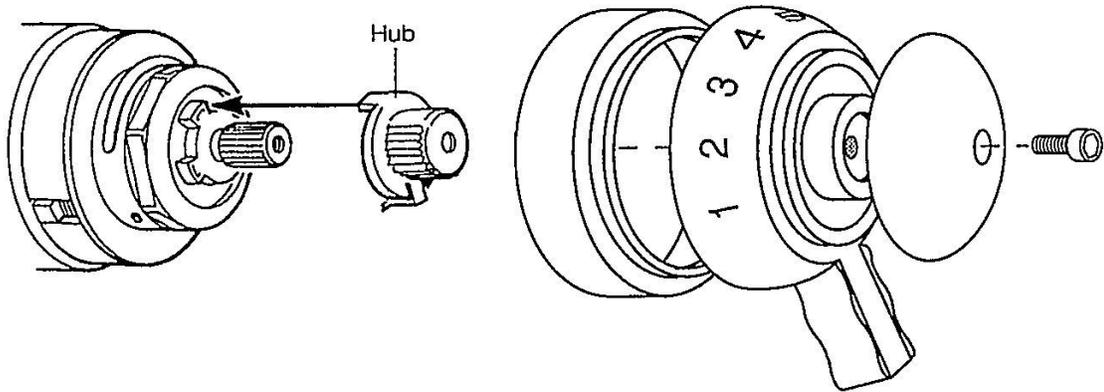


The Apollo Bathing System is equipped to deliver approximately 1 ounce of cleaner or disinfectant per gallon of water with an average water pressure of 40-60 PSI.

Rada® 222 Thermostatic Mixing Valve

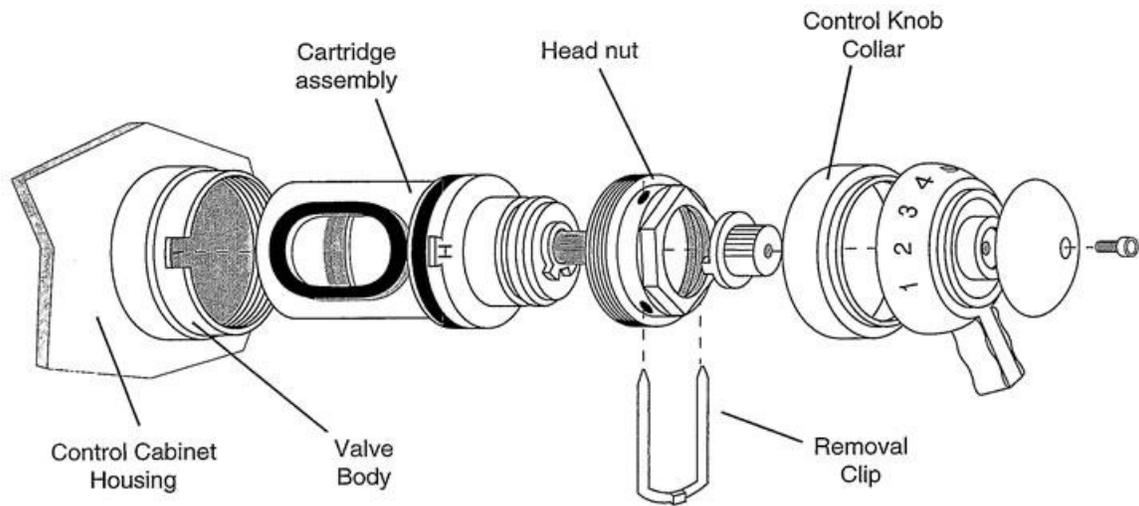
Set Maximum Water Temperature

- Check that an adequate supply of hot water is available to the valve.
- Temperatures should always be checked using a thermometer of recorded accuracy.



1. Using 3mm hex wrench, remove the Center Cap Screw.
2. Remove the Center Cap and Temperature Knob.
3. Remove the Temperature Hub from inside the Temperature Knob.
4. Turn on the Tub Fill Valve or Reservoir Fill Valve (if applicable).
5. With the water running, rotate the spindle clockwise to decrease temperature or counter-clockwise to increase temperature.
 - You may find it easier to rotate the spindle if you place the Temperature Hub back on the spindle and use it as a knob.
6. Once the desired maximum water temperature is achieved, re-fit the Temperature Hub onto spindle so the nub on the bottom of the Temperature Hub seats against the stop on the cartridge face. (See Illustration) Be careful not to turn the spindle, therefore changing your temperature setting.
7. Manually check water temperature to be sure it has not changed.
8. Install the Temperature Knob so the indication **9** is in the 12 O'clock position.
9. Install the Center Cap and screw.

Thermostatic Cartridge Removal and Replacement



1. Shut off water supply to the valve.
2. Using 3mm hex wrench, remove the Center Cap Screw.
3. Remove all plastic coverings.
4. Remove the plastic retaining clip from brass retaining nut.
5. Use an adjustable wrench or a channel lock pliers to loosen nut and remove.
6. Remove the cartridge from the valve body by pulling it straight toward you.
 - If you are discarding the cartridge, use channel lock pliers to pull it out of the housing.
 - If you intend to reuse the cartridge, install the center cap on the spindle and use it as a handle to pull the cartridge out. This will prevent damaging the spindle.
7. Lubricate the o-rings on the new cartridge with the enclosed grease.
8. Place the new cartridge in the valve body; red tab on left and black tab on right.
9. Push the cartridge in firmly, being careful that the o-rings stay in place. Cartridge is in when both tabs are fully seated in slots on the valve body.
10. Re-install the brass retaining nut and retaining clip.
11. Turn on water and check for leaks.
12. Refer to Set Maximum Water Temperature on page 58.

Preventative Maintenance Schedule

BATHING SYSTEM					
Description	Monthly	3 Mos	6 Mos	1 Yr	Notes / Comments
Inspect Water Supply Lines		X			Inspect incoming lines from wall to Rada® valve.
Cleaning & Disinfecting System		X			Ensure Control & Selector valve is operational.
Shower Wand and Hose		X			Test operation for proper flow and pressure.
Carrier Docking Receiver		X			Ensure the Receiver is properly secured to the tub.
Tub Safety Strap		X			Inspect for wear and ensure clips work correctly.
Thermostatic Mixing Valve & Thermometer accuracy		X			Verify the mixing valve and thermometer are operational and providing water within acceptable temperature ranges. Inspect for leaks around the mixing valve.
Remedy® UV Quartz Tubes (Whirlpool only)			X	X	Remove and clean annually if using Apollo cleaning solutions, otherwise every six months. Verify UV indicator lights and UV bulbs are working. Average UV bulb life span is approximately five years.
Air Transmitter button (Whirlpool)			X		Ensure proper operation of the whirlpool jets.
Inspect Door Gaskets				X	Prolong gasket life by keeping the door latch disengaged when bath is not in use.
Whirlpool plumbing & pump/motor			X		Check for water leaks.
Air Spa Blower & air lines			X		Check for water leaks.
Tub Drain Valve & Rod Assembly		X			Inspect for leaks; lubricate operating rod.

CABINET/ Rapid Fill™ Reservoir (if applicable)					
Description	Monthly	3 Mos	6 Mos	1 Yr	Notes / Comments
Reservoir Fill Hose		X			Inspect for leaks and verify connections are tight.
Reservoir Fill Valve & Rod Assembly		X			Inspect for leaks; lubricate operating rod.
Reservoir Thermometer		X			Verify accuracy.
Reservoir Float Valve			X		Verify water shuts off at the correct level.
Reservoir Tank		X			Inspect for cleanliness

LEVEL GUIDE™ TRANSFER SYSTEM					
Description	Monthly	3 Mos	6 Mos	1 Yr	Notes / Comments
Docking Pin Secures to Receiver	X				Refer to Level Guide™ Transfer System Installation on page 46.
Primary Lock Assembly (carrier)	X				Inspect for debris accumulation; verify lock works freely.
Secondary Locks (carrier)	X				Verify locks work freely.
Carrier Rail Alignment	X				Refer to Level Guide™ Transfer System Installation on page 46.
Docking Pin Release Lever	X				Works freely, disengages properly.
Chair Safety Strap	X				Inspect for wear and ensure clips work correctly.
Caster Locks (carrier)		X			Casters are tight and work properly.
Heel Protector		X			Verify hardware is tight.
Seat Belts		X			Inspect for wear.
Chair Wheels (under seat)			X		Inspect by removing seat (lift from back), check tightness.
Rail Stops (Lock-in Chair Only)			X		Check tightness.
Self-Locking Lever Assembly (Lock-in Chair Only)			X		Lever should engage Stop Lock but avoid contact with the tub.

SCALE					
Description	Monthly	3 Mos	6 Mos	1 Yr	Notes / Comments
Scale Load Cell Fasteners	X				Ensure load cell cover fasteners are tight (no play).
Scale Calibration				X	Refer to Scale Calibration sheet.