



Patient Equipment, Inc.

Recumbent Fixed Height Bath System

Operation & Daily Maintenance Instructions

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Recumbent Fixed Height
Bath System

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Introduction

- The Recumbent Fixed Height - Bath System is designed to significantly improve the efficiency and environmental of your nursing care operation. However, the benefits designed into the Fixed Height - Bath System will be realized only if the system is operated and cared for properly.
- The Stretcher/Transfer Lift is designed to transport the resident to, into, and from the Recumbent Bathing System. It's efficient benefits are also only realized if the system is operated and cared for properly.
- The purpose of this manual is to provide you with a recommended procedure to help you obtain the maximum efficiency from your Bath and Stretcher/Transfer Lift Systems.

Symbols and Terms



Warning

- The warning symbol identifies important safety messages. Failure to obey a safety warning may result in injury to you or to others.



- **Alternating Current**



- **Type "B" Equipment**

CAUTION

- The caution heading identifies important maintenance and operation information. Failure to obey a caution warning may result in damage to the Recumbent Bath and Stretcher/Transfer Lift equipment, and may void the warranty.

Left or Right

- When the terms "left" or "right" are used with reference to the tub, this means left or right as you look at the control panel from the key hole end of the tub.

Liability for Function or Damage

- In every case, the owner or operator of these systems shall be liable for their function if the systems have been incorrectly operated, maintained or repaired by persons who are not trained in accordance with its specific application.
- MasterCare Manufacturing shall not be responsible for any damage resulting from failure to observe these procedures.

Tub Technical Description

Manufacturer:

**MasterCare Patient Equipment Inc
2071 14th Ave
Columbus, NE 68602
(402) 564-5867**

Models: Recumbent - MB-71

Recumbent Bath Ratings:

**120 Volts AC
60 Hz 1 Phase
12 Amps**

The Recumbent Bath is a BathAire fixed height bathing system intended for use in nursing homes, hospitals, and assisted living facilities to bathe residents under the direct supervision of trained staff. The Recumbent Bath is longer and wider to allow the use of an optional Stretcher/Transfer Lift for ease of care by the resident. A thermostatic mixing valve controls incoming water temperature. Analog temperature read-outs indicate all incoming and tub water temperatures. A hand shower sprayer is also provided.

Recumbent Bath and Stretcher/Transfer Lift Description

Lift Technical Description

Stretcher/Transfer Lift:

Model # 718050 (Without Scale)

Model # 718060 (With Scale)

Transfer Charger:	24 Volts DC (Rechargeable)
Ratings:	5.2Amp
Lift Ratings:	24 volts DC
Load capacity rating:	400 lbs - 5.2 Amps
Duty Cycle:	10% Int.; 1 min on / 9 min off
Height:	18-1/4" inches Minimum clearance from floor
Height:	37-3/4" inches Maximum clearance from floor (Note: There is a 2" (two inch) adjustment to height clearances)
Length:	69-3/4" Stretcher overall length.
Width:	21-3/4" Width of Stretcher only.
(Lift Overall Width)	
Width - W/O Scale:	36" Door opening clearance.
Width - W/Scale:	37-3/4" Door opening clearance.

The Stretcher/Transfer Lift is a mobile battery operated device designed for lifting residents into and out of the Recumbent Bath. It is intended for use in nursing homes, hospitals, and assisted living facilities to aid in bathing residents under the direct supervision of trained staff. The lift consists of a powder coated steel base to which is mounted a pillar with an electric actuator. To the pillar is mounted a stretcher with removable pads for ease of cleaning. The Stretcher portion consists of three powder coated sections. The center section is secured to the pillar and the end sections are adjustable to adapt and properly evaluate the resident. Three belts are attached to secure the resident across the upper and lower body, and across the midsection.

Basic Components

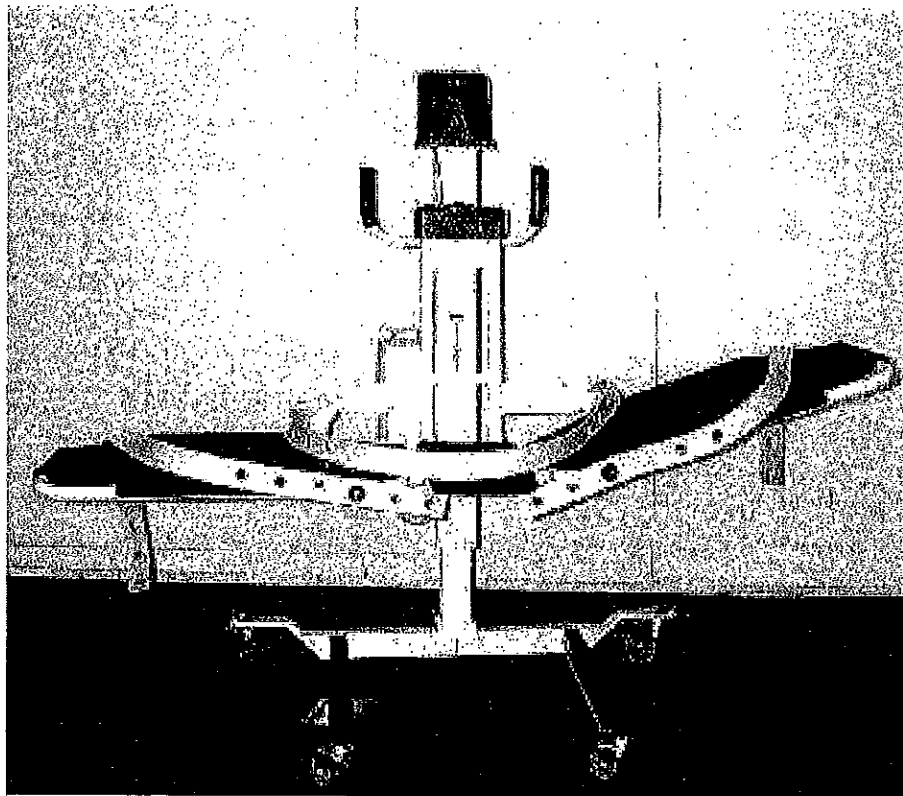
- Service parts and technical information are available by contacting your distributor or by calling one of the telephone numbers located on the front or back cover of this manual.

Basic Components Continued

Stretcher/Transfer Lift

The Stretcher/Transfer Lift is a specially designed mobile stretcher to aid you in transferring your residents from their beds to the bathing room, and into the Recumbent Bathing System. The stretcher on the Transfer Lift adjusts to enable lifting the resident into the Recumbent Bath and obtaining efficient submersion to bathe the resident. The Stretcher/Transfer is battery operated with an **"EMERGENCY STOP"** button. It has a removable battery pack that can be recharged in a wall charger. The Stretcher/Transfer Lift automatically stops on the down cycle when obstructed.

Figure 1



System Preparation (Before Bath)



WARNING

Only personnel who have been thoroughly trained in the operation of the Recumbent Fixed Height Bath System should operate this equipment. Operation of this equipment by untrained personnel could result in injury to the resident or operator.



WARNING

The resident must be evaluated by qualified medical personnel to determine if he or she is a proper candidate to safely be transferred and bathed with the Recumbent Bath and Stretcher/Transfer Lift System. Failure to properly evaluate candidates could result in injury to the resident or operator.

Prior to the bath, perform the following preparation steps:

1. Close the drain plug using the drain handle.
2. Turn on tub fill knob to begin filling the tub.

System Preparation (Before Bath) continued

3. Monitor the water temperature by watching the Water-Temperature Dial

Adjust the water temperature by turning the Temperature Control Knob to a normal bathing temperature, 95 to 105 degrees Fahrenheit.



WARNING

In addition to monitoring the temperature readout, always check the water temperature by allowing it to run over your wrist. Failure to do this could result in a hot-water burn to the resident.

4. Fill the tub to approximately 5 inches below the overflow plate. This will normally result in the water rising to an appropriate level as the resident is lowered into the bath. Less water may be used pending evaluation of the candidate being bathed to achieve less submersion.

Note: The Recumbent Bath System is a large capacity tub. Fill only to the level required to obtain the desired submersion determined by the type of resident you are bathing.

System Preparation (Before Bath) continued



WARNING

Do not overfill, splash, or spill water on the floor. Water on the floor could result in injury to the operator or resident.

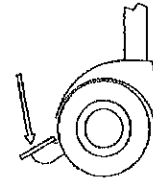
5. When filled, close valve to stop the water flow.

NOTE: Start air action prior to filling tub and throughout bathing and drain cycle.

6. Make sure you have all of your bathing supplies ready, such as a washcloth and towels.

You are now ready to transfer the resident from the bed to the bath.
To do so:

7. Push the Stretcher/Transfer Lift to the resident's bed and position it for a normal bed-to-stretcher-transfer position.



8. Lock the brakes by stepping down on the lock-arm tab located on the back of the rear casters as shown.

Locking Brake
on Rear Casters



WARNING

Failure to lock the caster brakes before the resident is transferred into the Stretcher/Transfer Lift could result in injury to the operator or resident.

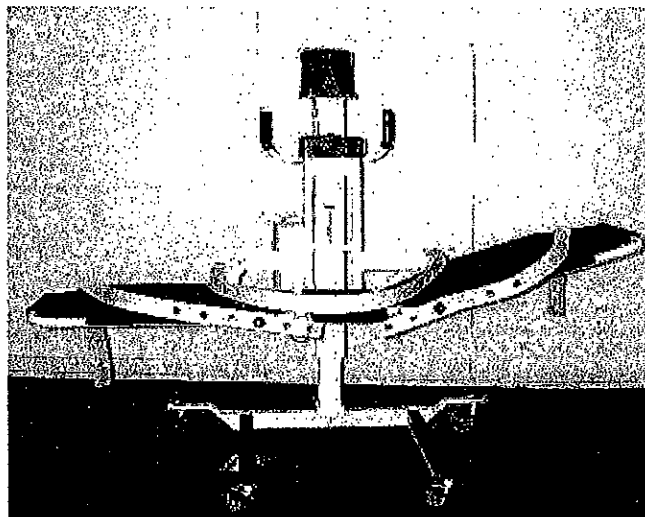
Transfer from Bath to Bed

9. Transfer the resident into the Stretcher/Transfer Lift using the proper nursing transfer techniques. Place the three safety belts, one across the upper body, one across the midsection, and one across the lower body. Secure all belts to the proper attaching points on the stretcher as shown below. Adjust the incline of the Stretcher/Transfer based on the resident's size and level of water in the tub.



WARNING

The Stretcher/Transfer is pictured below in the first incline position. You may need to raise the level of the Stretcher/Transfer to the second or third incline position based on the resident's size and level of water in the tub. Adjust the incline **BEFORE** the resident has been transferred into the Recumbent Bath. Failure to ensure the resident's head is above water level, could result in injury to the resident or patient.



WARNING

Failure to ensure that the resident is properly secured in the Stretcher/ Transfer Lift before being transferred, could result in injury to the operator or resident.

Transferring the resident at the Bath Station

10. Lower the Stretcher/Transfer Lift to the lowest position, unlock the casters, and carefully push the Stretcher/Transfer Lift to the bathing area, being careful to avoid uneven floors and objects in hallways.
11. At the bathing area, position the Stretcher/Transfer Lift on the side of the Bathing System near the side of the tub, with the resident's feet towards the control panel.
12. Lock the casters once again on the Stretcher/Transfer Lift. Push the UP button, on the hand control of the Stretcher/Transfer Lift, and slowly raise the resident to a height that will clear the top edge of the tub when it is in its lowest position. Always watch for objects that may interfere or obstruct the Stretcher/Transfer Lift operation.



WARNING

Do not allow the resident to interfere with the operation of the Stretcher/Transfer Lift while operating the equipment. Do not allow garments, towels, and other foreign objects to interfere with its operation. Ensure the resident is belted properly at all times with all limbs kept inside the Stretcher area near the resident's body. Failure to take these precautions could result in injury to the resident or operator.

13. Once at the correct height to clear the tub, unlock the casters and carefully push the Stretcher/Transfer Lift towards the tub until the Stretcher is located over the Bathing system. Ensure the legs of the Stretcher/Transfer Lift clear the tub legs underneath the tub while pushing the unit in.

Transferring the resident into the Recumbent Bath



WARNING

When using the Recumbent Fixed Height Bath System, in conjunction with the Stretcher/Transfer Lift, caution must be used when raising or lowering the units. Do not raise or lower the Stretcher/Transfer Lift without consideration of the height of the bathing system. Always ensure that all limbs are inside the Stretcher area near the body and all objects clear. Failure to take these precautions could result in injury to the resident or operator. Failure to take these precautions could also result in damage to either the Bathing system and/or the Stretcher/Transfer Lift.

14. Carefully lower the Stretcher/Transfer Lift into the tub making adjustments to insure clearance and that the resident is submersed to a safe and correct depth into the water. Lock transfer casters. ENSURE THAT THE RESIDENT'S HEAD REMAINS ABOVE WATER AT ALL TIMES. Always be aware of the resident's limbs and anything that may obstruct the lowering of the Stretcher/Transfer Lift and/or raising of the Recumbent Bath.

NOTE: The Stretcher/Transfer Lift is equipped with a RED EMERGENCY STOP button which can be pushed at any time to stop the Stretcher/Transfer Lift from raising and/or lowering.

Bathing Procedure

1. You are now ready to begin washing the resident.
2. To bathe the resident, use the following procedures:
3. Start the BathAire blower by pressing the on/off Button.
4. Bathe the resident's upper body as follows:
5.
 - a) Apply MASTERCARE SHAMPOO/BODY WASH into your hand or into a washcloth. Then apply the shampoo and body wash directly to the resident's body.
 - b) Begin gently washing the resident's upper body. Pay special attention to the folds or creases in the skin and under the arms. If the scalp is flaky, apply a small amount of MASTERCARE BATH ADD./SKIN CONDITIONER to the problem area and let soak in until time for shampoo.
6. Rinse the upper body with the shower sprayer as follows:
7.
 - a) Pick up the hand- held shower sprayer located on the right side of the control panel.
 - b) While pointing the sprayer into the tub, **not onto the resident**, open shower control knob.

Bathing Procedure Continued



WARNING

Never place the shower sprayer submerged in the bath water. Always replace it in the wand receptacle. Failure to do so could result in contamination of the facility water system, which may result in a health hazard.

- c) Adjust the water temperature by turning on the Temperature Control Knob to the normal bathing range of 95 to 105 degrees Fahrenheit. Monitor the temperature by viewing the fill/shower Temperature Readout. As a further precaution, always test the water on the inside of your wrist before turning on the shower.
 - d) Repeat the washing and rinsing steps for the upper body a second time.
7. Bathe the resident's perineal area as follows:
- a) Lift the resident's right leg and let the BathAire bubbling action wash the perineal area. This technique protects the resident's dignity and removes any residue or waste.

Bathing Procedure Continued

8. The resident's feet will be cleaned by the Recumbent bubbling action at the foot end of the tub.
9. To shampoo the resident's hair, use the following procedure:
 - a) Wet the resident's hair with the shower sprayer.
 - b) Apply a small amount of MASTERCARE SHAMPOO/BODY WASH to the wet hair.
 - c) Massage the resident's head to create a lather. Continue the massage to fully clean the hair and scalp.
 - d) Rinse with the shower sprayer.
 - e) Shampoo and rinse a second time if required.

Transferring from Bath to Bed

Transfer the resident back to the bed as follows:



WARNING

When raising the resident out of the water with the Stretcher/Transfer Lift, ensure that all limbs are inside the Stretcher area near the body and all objects clear. Ensure the feet clear the control panel area at all times. Push the “EMERGENCY STOP” button at any time to stop the Stretcher/Transfer Lift from raising and/or lowering. Failure to take these precautions could result in injury to the resident or operator. Failure to take these precautions could also result in damage to either the Recumbent Tub and/or the Stretcher/Transfer Lift.

1. Drain the tub then turnoff air system.
2. If the bottom of the Stretcher/Transfer lift will not clear the rim of the Recumbent Bath, raise or adjust the height of the Stretcher/Transfer lift to clear the rail two inches.
3. Rinse the resident’s body with the shower sprayer.
4. Use a towel to dry and clean the underside of the chair. This will prevent the water from dripping onto the floor and will prevent residual buildup under the seat.

Transferring from Bath to Bed

5. Before you move the resident out of the tub, make sure the lower extremities have been towel dried so the bathroom floor stays dry. Unlock the casters of the Stretcher/Transfer Lift and slowly move it away from the Recumbent Tub then lock the casters again to lower.



WARNING

Do not overfill, splash, or spill water on the floor. Water on the floor could result in injury to the operator or resident..

Transferring from Bath to Bed Continued



WARNING

Make sure the Stretcher/Transfer Lift bottom will clear the tub rim height by at least two inches before moving the resident out of the tub. Failure to do so could result in an injury to the resident or operator or damage to the Recumbent Bath. Push the “EMERGENCY STOP BUTTON” at any time to stop the Stretcher/Transfer Lift from raising and/or lowering.

8. Unlock the casters and position the Stretcher/Transfer Lift in a clear area then push the “DOWN” Button until it is at its lowest position.
9. Ensure all three belts are properly secured on the Stretcher/Transfer Lift. You may now push the resident back to the bed being careful to avoid uneven floors and objects in hallways.
10. Position the Stretcher/Transfer Lift beside the bed and lock the casters once again.
11. Release all three belts from the resident and transfer the resident to the bed using proper nursing techniques.
12. With the Stretcher/Transfer Lift now empty, unlock the casters and return it to the bathing area for cleaning.
13. Raise the Stretcher/Transfer Lift to clear the edge of the Recumbent Tub. Move the Stretcher/Transfer Lift over the Recumbent Tub, then lower into the Recumbent Tub for cleaning and disinfecting.

System Cleaning (After Every Bath)

Clean and disinfect the Recumbent Tub and Stretcher/Transfer Lift after every bath with MasterCare Cleaner/Disinfectant as follows:

Note: MasterCare Cleaner/Disinfectant is a special non-abrasive cleaning and disinfecting solution that will not harm the tub's fiberglass surface. MasterCare Cleaner/Disinfectant is the only cleaning solution designed and recommended for use with your Recumbent Tub.

CAUTION

Some cleaners, disinfectants, and floor strippers contain ingredients that are corrosive or abrasive. These solutions or compounds may contain chlorine, acid, basic ingredients or abrasives. DO NOT allow such solutions or compounds to come in contact with your MasterCare equipment. Failure to heed this caution could result in damage to the equipment and void the warranty.

1. Drain the water from the tub.
2. Remove visible tissue residue or fluids before disinfection.
3. Press the Shower Button and rinse the inside surfaces with the shower sprayer.
4. Close the drain.

Note: MasterCare Cleaner/Disinfectant is a special non-abrasive cleaning disinfecting solution that will not harm the tub's fiberglass surface. MasterCare Cleaner/Disinfectant is the only cleaning solution designed and recommended for use with your Recumbent Bathing System.

System Cleaning (After Every Bath)



WARNING

Housekeeping personnel should wear protective glasses and gloves to prevent disinfectant from damaging their eyes or skin. If disinfectant gets on the skin or in the eyes, rinse thoroughly with plenty of water. Seek medical advice if irritation occurs.

5. Manually spray. Apply the disinfectant to all areas of the tub that have been in contact with bathing water.
6. Using a long-handled brush (available from your MasterCare distributor) to thoroughly scrub all interior surfaces of the tub with the solution that remains in the foot well of the tub.
7. Manually spray the entire stretcher portion of the Stretcher/Transfer Lift.
8. Using a long-handled brush (available from your MasterCare distributor) to thoroughly scrub all surfaces of the Stretcher/Transfer Lift with the solution from the hand sprayer.
9. Allow for proper disinfectant contact time.
10. Open the drain.

System Cleaning (After Every Bath)

11. Finish rinsing the interior surfaces of the Recumbent Tub and all sprayer.
12. Spray water from the shower sprayer to rinse out all of the disinfecting solution.
13. Finish rinsing the interior surfaces of the Recumbent Bath and all surfaces of the Stretcher/Transfer Lift with the shower sprayer.
- 14.. The blower will automatically do a purge after 20 minutes to clear and dry the air jets.

Daily Maintenance

To properly maintain the Recumbent Recumbent Fixed Height Bath System, perform the following daily maintenance procedures.

1. Check that there is an adequate supply of disinfectant.

Daily Maintenance Continued)



WARNING

While replacing system liquids, housekeeping personnel should wear protective glasses and gloves to prevent disinfectant concentrate from damaging their eyes or skin. If disinfectant gets on the skin or in the eyes, rinse thoroughly with plenty of water. Seek medical advice if irritation occurs.

2. Perform the Daily Safety Checklist described in the following section before using the Recumbent Bathing System.



WARNING

Failure to perform the daily safety checks and take corrective action, when required, prior to the operation of the equipment each day could result in injury to the resident or operator.



WARNING

If any part of the system is not functioning properly, cease all bathing activities until the problem is corrected by maintenance. The system must be maintained on a scheduled basis to ensure it is functioning properly. Failure to heed these precautions could result in injury to the resident or operator.

Daily Maintenance Continued

Daily Safety Checklist

CHECK THE FOLLOWING ITEMS EACH DAY BEFORE USING YOUR Recumbent FIXED HEIGHT BATH SYSTEM. DOCUMENT YOUR FINDINGS DAILY.

Perform the following safety checks for the Recumbent Bath:

1. High temperature limit – Open fill knob and turn the Temperature Control Knob all the way to the left to the highest setting. Test the fill and shower water temperature to ensure that it reaches no more than 110 degrees Fahrenheit (lower if required by local regulations).
2. Temperature Read-Out Accuracy – Open the Fill knob and adjust the temperature of the water to the normal bathing range of 95 to 105 degrees Fahrenheit. Test the temperature of the water with a thermometer and by letting the water flow over your wrist. The water temperature should be consistent with the thermometer reading and should not feel too hot or too cold.

Daily Maintenance Continued

MasterCare Stretcher/Transfer Lift

Perform the following safety check on the Stretcher/Transfer Lift.

1. Batteries – Check that the batteries are fully charged (Lift operates normally).
2. Emergency Stop Button – Check that while the Stretcher/Transfer Lift is being raised or lowered, pushing the Red Emergency Stop Button stops the Stretcher/Transfer Lift from raising or lowering.
3. Overload Cut-off – Check that while the Stretcher/Transfer is being lowered, you can lift the stretcher from the bottom of the stretcher frame and stop the downward motion.
4. Seat Belts (Three) – Check the condition of the seat belt(s) for signs of excessive wear. Also, check the fastening holes on the belts for tearing or excessive enlargement.
5. Casters – Check the casters for tightness and lint build up.
6. Welds – Inspect all welds for cracks, rusting, and damage.



WARNING

If during the safety checks you find parts are missing, are excessively worn, do not function properly, or do not meet the recommended safe operating levels, do not operate the equipment until the maintenance department has taken the appropriate corrective action.

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