



## **HydroMassage Product Manual**

Class I, Type B, IPXO, Equipment

Revised 4/14/2015

## Introduction to HydroMassage®

Congratulations on your decision to add HydroMassage to your business. HydroMassage has been trusted by doctors and industry leaders for over 25 years to provide clients with a convenient way to deliver the benefits of a 10-15 minute heated massage every day.

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### Key Departments:

Technical Support: 1-800-699-1008 x 1013  
Marketing Support: 1-800-699-1008 x 1027  
Admin / Logistics: 1-800-699-1008 x 1010  
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### Mission

Our mission is to improve the health and well being of the individual by providing the most effective dry hydrotherapy systems available. Build value for our stakeholders through the strength of our customers' satisfaction, a continued focus on innovation, our dedication to operational excellence and the personal and professional growth of our employees.

### Manufacturing

All JTL products are manufactured in the United States, meeting UL / CE / CSA safety standards as well as being registered as a Class I medical device with the FDA. Each component must first pass a rigorous 5,000 hour life expectancy test before being used in production. During production, each product must pass a 268 inspection checklist, receive approval from four different employees and managers, and undergo a 24 hour testing process before being considered ready for shipment. All products come with a two year warranty on all moving components and a three year warranty on major structural elements.

### Our Brand Integration

In late 2008, JTL Enterprises announced plans to integrate our two, then separate brands, AquaMED and HydroMassage to form one all-inclusive brand, under the name of HydroMassage. The medical brand, AquaMED had been successful with in the medical market for over 20 years, serving nearly every field in the medical industry. HydroMassage, conversely had been a pioneer in the leisure markets for many years. Both AquaMED and HydroMassage products have been designed based on thorough research, and customer feedback over the 20 years in business. This ensures that only the highest-quality and most technologically advanced products and features are available.

**HydroMassage Master Code # 120700**

## Trademarks

HydroMassage® is a registered trademark of JTL Enterprises, Inc.

## Notice of Copyright

HydroMassage® Owner's Manual © October 2010 JTL Enterprises, Inc. All rights reserved.

## Disclaimer

While every precaution has been taken to ensure the accuracy of the contents of this manual, JTL Enterprises, Inc. assumes no responsibility for errors or omissions. Please note that the information contained herein, including but not limited to models, specifications, options, accessories, supplies, and prices, is subject to change without notice.

## What is HydroMassage®?

HydroMassage® is an unattended massage system that gives users the opportunity to get a massage every day. HydroMassage® delivers a powerful wave of water that spans the full length of the user's body providing a deeply relaxing and rejuvenating massage.

HydroMassage® has been trusted for over 25 years by doctors, physical therapists, trainers and athletes to help relieve pain temporarily and assist in muscle recovery.



**The HydroMassage® Touchscreen** allows users to easily operate the bed without staff supervision. They are able to fully customize their massage by controlling the time, speed, intensity and location of massage, with just the touch of a finger. This advanced feature also allows users to listen to music, watch videos, play games and even surf the internet during their massage.

## Why users love HydroMassage®

- ✓ **Convenient:** It takes 10-15 minutes or less to get a powerful massage; anytime!
- ✓ **Comfortable:** Clients don't get undressed. They can enjoy the massage fully clothed and comfortable.
- ✓ **Entertaining:** With the HydroMassage® Touchscreen, clients can watch videos and listen to music during their massage. Those users who have a hard time sitting still will be completely satisfied with the entertainment features.
- ✓ **Affordable:** Your clients can get regular massage at a substantially reduced cost, as compared to hands-on massage therapy.

Please visit <http://www.hydromassage.com/Customer-Support.htm> for additional marketing, technical support, and installation resources.

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## HydroMassage® Limited Warranty

### Limited Warranty Period

90 Days	Labor
2 Years	Parts only
3 Years	Tank & Frame only

All parts found to be defective due to workmanship during the Limited Warranty Period will be repaired or replaced at JTL's option.

All labor required during the Limited Warranty Period must be authorized in writing by JTL, and must only be performed by a JTL authorized technician or service contractor. JTL will give written authorization per incident. The authorization is only valid for the related incident and only if the person doing the repair does so per the guidance of our technical department. Any repairs or damage done without the guidance of JTL Technical Department will void the warranty. **At NO time should any repair include cutting and or splicing of wires.** All electrical repairs should be limited to making connections.

JTL's Limited Warranty does not apply if: (I) the product has been repaired by anyone other than a JTL Authorized Service Representative; (II) the product has been physically moved from its original installed location by anyone other than a JTL Authorized Service Representative; (III) the product has been damaged by improper connection or disconnection with any electrical device; (IV) the product has been damaged by an act of God, accident, misuse, abuse, negligence or any other use other than the product's intended use as set forth in the company's specifications; (V) the product has suffered damage from mishandling of the product; (VI) external trauma; or (VII) distilled water was not used. (The warranty does not cover cosmetic damage.)

**The sole remedy under this warranty is the repair or replacement of the product provided herein.** In no event shall the company be liable or responsible for any incidental, consequential or indirect damages for breach of any express or implied warranty on this product. In any event, if damages are awarded, they will be limited to the cost of the product.

Except to the extent prohibited by an applicable state or federal law, all implied warranties, including those warranties of merchantability and fitness for a particular purpose, are disclaimed.

Some states do not allow the exclusion or limitations of incidental, indirect or consequential damages or allow limitation to the length of an implied warranty, in which case the foregoing warranty shall be extended to conform to the minimum requirements of such applicable law.

Specific legal rights: This limited Warranty gives you specific legal rights which may vary from state to state.

## Disclaimers

JTL shall not be liable for loss of use of equipment or other incidental or consequential costs associated with the installation of equipment. (Any implied warranty shall have duration equal to the duration of the applicable warranty stated above.) Under no circumstances shall JTL or any of its representatives be held liable for injury to any person or damage to any property, however arising. This warranty gives you specific legal rights and you may have other rights, which vary from state to state.

**All non-warranty replacement parts are shipped freight prepaid or collect. Credits will be given on defective or unused parts returned to JTL within 20 days of receipt. Returned opened unused parts will carry 20% restocking fee, plus a fee for any parts returned that are damaged.**

This limited non-transferable warranty is extended from JTL Enterprises, Inc. (herein JTL) to the original purchaser of Dry-Hydrotherapy Equipment (herein "Equipment"). JTL will administer only the warranty provided by the original component part or equipment manufacturer. This warranty does not cover damage resulting from accidents, alteration, misuse, abuse, tampering, improper or unauthorized maintenance or repairs, use contrary to published instructions, or purchaser's negligence or neglect. Purchaser must place the equipment in an area that conforms to JTL specifications, room preparation, installation instructions, electrical, and environmental requirements.

**Remedies and Limitations:** The sale and exclusive remedies under this Limited Warranty shall be repair and/or replacement as set forth above except where prohibited by law. JTL shall not be responsible for any damages, whether direct, indirect, consequential, incidental or economic in this limited warranty. Some states may not allow the exclusion or limitation of consequential or incidental damages so the above limitation or exclusion may not apply to you. This thereby limits the duration of all implied warranties of merchantability and fitness for a particular purpose to time listed on warranty sheet. Some states may not allow limitations on how long an implied warranty lasts, so the above limitations may not apply to you.

**No Other Warranties Exist:** No other warranties, express or implied, exist with respect to the equipment. Oral statements by salespersons do not constitute warranties. Salespersons are not authorized to make warranties with respect to the equipment. This entire agreement is embodied in this writing and no other warranties exist. This writing constitutes the final expression of the parties' agreement and is the complete and final statement of the terms of the agreement.

## HydroMassage® Precautions and Contraindications

Please ensure users are aware of the following precautions and contraindications prior to receiving a HydroMassage treatment.

Anyone suffering from one or more of the following conditions, or with a condition upon which heat or massage would have an adverse effect should receive physician approval prior to use:

Heart or circulatory problems; inflammatory conditions such as phlebitis; varicose veins or thrombosis; swollen joints, acute inflammations, severe bruising, skin infections, contagious diseases; a high temperature or have pain radiating to the arms or legs when the back is massaged.

**Before beginning the treatment session**, position the user in the middle of the bed with legs together and the feet resting at the pump/foot end. The head should be resting comfortably on the cervical support pillow with the curve under the neck. The pillow should be removed if treatment will include the cervical (neck and shoulder) area.

**After treatment**, it is recommended that the user remain lying down for 45 seconds or until comfortable sitting and standing. The increased circulation may cause temporary dizziness. It is advisable to drink water after a session to assist in excreting toxins from the system.

**\*IMPORTANT: Any person with a specific medical condition upon which heat or massage might have an adverse effect should consult a physician prior to use.**



## HydroMassage® Safety Considerations

This product is not suitable for use in the presence of flammable anesthetics.

This unit uses electricity: to reduce the risk of electrical shock and fire keep clear of electrical components. Always unplug the unit before attempting service or inspection.

This unit is intended for household or commercial use only, and has met the requirements for electro-magnet emissions per UL standards. Do not locate equipment that is not agency-approved (such as x-ray or high-frequency equipment) within the vicinity of the unit, as it will cause interference. If this unit causes interference or another piece of equipment interferes with this product use only one unit at a time or move the equipment a safe distance to stop interference.

**Always frequently inspect under the bed and cooling unit for any signs of water leakage (specifically the areas under the pump, pressure valve and plumbing).**

Improper connection of the equipment-grounding conductor can result in a risk of electric shock. Check with a qualified electrician or serviceman if you are in doubt as to whether the product is properly grounded.

**Do not modify the plug provided with the product** – if it will not fit the outlet; have a proper outlet installed by a qualified electrician.

**Always disconnect power before draining water.** Never connect power unless the unit has the appropriate amount of water in it.

**Always lift your equipment by the metal frame.** Never lift your equipment by the plastic tank, as it may cause cracking.

Do not store, transport or operate your equipment in freezing conditions without completely draining the tank, pump, radiator or chiller. It is recommended that air be blown through each of these critical parts to ensure that they are totally free of water.

In order to maintain temperature control and user comfort, make sure there is adequate ventilation in the room where the equipment is placed. It is recommended that there be an air conditioner vent or fan located in the room capable of moving 500 cubic feet per minute (500 CFM).

When models 320, 350, 500 & 700 are installed in rooms less than 12' x 12', it is recommended that the External Cooling System be installed in a separate room or vented (See Internal Cooling System Cold Air Supply Duct).

The supply lines allow the External Cooling System to be up to 20' away from the equipment. When choosing a location for the Cooling System that is remote from the machine, ensure the following:

- The temperature remains between 45° -100° degrees Fahrenheit.
- There is at least 2000 cubic feet of air space in the chiller location if the room is sealed, i.e. ceiling or basement. If it is in another room with a door that is open more than 50% of the time the surrounding hallways and rooms can be added...
- If the External Cooling System is to be installed anywhere other than on the ground, check to ensure it is securely mounted.

## HydroMassage® Specifications

Model	Series 100	Series 300, 340	Series 320,350,500,700
<b>Dimensions</b>	94L x 37 1/2 W x 24H	94L x 37 1/2 W x 24H	94L x 37 1/2 W x 24H
<b>Weight</b>	260 lbs/ 118kg without water	260 lbs /118kg without water	260 lbs without water
	380 lbs / 175kg with water	460 lbs/ 209kg with water	460 lbs with water
<b>Electrical Requirements</b>	120 V, single phase, 60 hertz , 15-amp breaker, 14 gauge / wire	208-230V, single phase, 50 / 60 hertz, 30-amp breaker, 10 gauge / 4mm wire	208-230 V, single phase, 50 /60 hertz, 30-amp breaker, 10 gauge / 4 mm wire
<b>Distilled Water Necessary</b>	15 gallons - no water hookup needed	25 gallons /96 liter - no water hookup needed	25 gallons - no water hookup needed
<b>Water Temperature Range</b>	92°/33° to 105°/ 41° C	92°/33° to 105°/ 41° C	92°/33° to 105°/ 41° C
<b>Continuous Cooling Unit</b>	Yes with proper ventilation	Yes with proper ventilation	Yes – External Cooler Unit
<b>External Cooler Dimensions</b>	NA	NA	17"W x 21"L x 14"H / 41cm W x 61cm L x 36cm H
<b>External Cooler Weight</b>	NA	NA	70 lbs / 32kg
<b>Maximum User Weight</b>	400 lbs / 180 kg	400 lbs / 180 kg	400 lbs / 180 kg
<b>Massage Area 200/100</b>	66"L x 12" W / 167cm L x 30cm W	66"L x 12" W / 167cm L x 30cm W	66"L x 12" W / 167cm L x 30cm W
<b>Massage Type</b>	Full Body, Effleurage	Full Body, Deep Tissue & Effleurage	Full Body, Deep Tissue & Effleurage
<b>Massage Zones</b>	30	30	30
<b>Timer Range</b>	1 to 60 Minutes	1 to 60 Minutes	1 to 60 Minutes
<b>Programmable</b>	Yes	Yes	Yes
<b>Water Release System</b>	Water Through Air Navitrac™	Water Through Air Navitrac™	Water Through Air Navitrac™
<b>Preferred Room Size**</b>	8 x 10	8 x 10	8 x 10
<b>Construction</b>	Aluminum, ABS Plastic On castors	Aluminum, ABS Plastic On Castors	Aluminum, ABS Plastic On castors
<b>Pressure Applied</b>	2 – 28 PSI	2 – 38 PSI	2 – 38 PSI
<b>Interactive Touchscreen</b>	N/A	300-No / 340-Yes	320-No / 350-500-700-Yes

### Touchscreen Specifications

Manufacturer	ASUS
Monitor Size	15.6"
Display Type	Wide Screen All In One PC Touchscreen
Max Resolution	1024x768 pixels at 75 Hz
Temperature Parameters	Operating: 41°F to 95°F
Weight	7.82 lb (3.1 kg )
Input Requirements	Any object (finger nail, etc.)

# HydroMassage® Installation Preparation Instructions

## Room Preparation

Determine where the unit will be located. The minimum room size is 8' x 6'. To maximize user comfort an 8' x 10' or larger is preferred. For best results with the Series 320/350/500/700 Series (with external cooling system), it is recommended that cooling system is installed in a separate area or vented to remove heat from room – see “External Cooling System Heat Exhaust Vent” section.

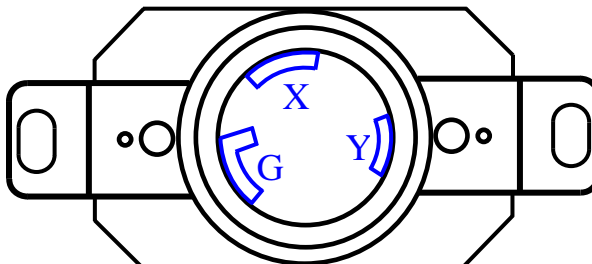
## Electrical Requirements

### Series 300 and higher

- A dedicated line supplying a voltage within the range of 208-volt to 240-volt power.
- 30-amp dedicated breaker
- Requires 10 gauge wire (2 hot legs and a ground\*) USA / 4 mm wire internationally
- **Equipment is shipped with a NEMA L6-30 Locking Receptacle (shown below- 3 prong plug)** / For International installations: please have your electrician install an appropriate plug and receptacle according to code
- Requires a 110 Volt outlet within 5' of the center of the HydroMassage bed.
- CAT 5 or Cat 6 Internet / Network connection at least 6' from bed

**Please be sure your electrical installation is completed before the unit arrives.**

**NEMA L6-30R  
Locking Receptacle  
(USA Only)**



\*If the equipment will be installed in a patient care area, additional electrical requirements may apply.

## Water Requirements

Distilled water contains no chlorine and is free of minerals and other chemicals that can cause build-up and decrease the life expectancy of key components. Distilled water is available at most major supermarkets or directly from your water supplier (if you have a water delivery service). Please have water on hand the day of installation.

- **Series 300 and higher: 25 Gallons/ 96 Liters of Distilled Water**
- Series 100 : 15 Gallons / 64 liters

## Specifications

Dimensions: 94" (239cm) long, 41" (95cm) wide, 27" (69cm) high

Weight: 260lbs (118kg) without water. 460lbs (209kg) with 25 gallons (95L) of distilled water.

Requires a doorway larger than 27" to install in room.

# HydroMassage® Delivery / Unpacking Instructions

## Tools & Supplies Needed

- Small Scissors (to remove wrapping)
- Adjustable Crescent Wrench
- Phillips Screw Driver
- Tin-Snips (for removing bands)
- 25 Gallons Distilled Water

## Unpacking Shipping Crates

### 1. Snip packing bands



### 2. Remove Lid



### 3. Remove box (sleeve) by lifting up



### 4. Pull down sides of box at base and sides of bed



### 5. Remove plastic shrink wrap around bed Use small scissors (not a knife).



### 6. Unsnap (or un-Velcro) and remove cover sheet and comfort pad



**7. Remove both side panels then end panels by lifting up the top edges off Velcro fasteners**



**8. Retrieve Parts Supply box and Marketing Materials Boxes.** In Parts Supply Box, all units include castors, nuts, water fill tube, panel screws, and pillow. Some models will also include Touchscreen with wiring and battery backup.



**9. Remove six packing bolts used to secure unit bed to plywood shipping platform.** Do not carry unit or move by using plywood-shipping platform.

Supply Box

Remove six packing bolts



Inside view of supply box



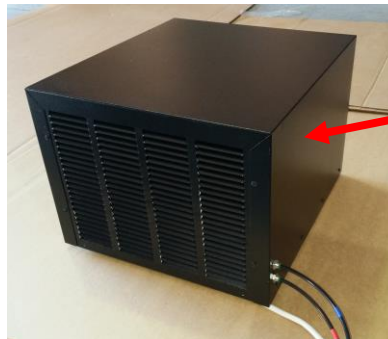
**10. Unpack External Cooling System (if included).**

Snip packing bands and remove box. Not all models include External Cooling System.

External Cooling System Crate



External Cooling System





## (HydroMassage® Delivery / Unpacking Instructions Continued)

### Installing Castors & Moving Unit into Desired Location

- 1) Pull one corner of the bed off the plywood by pulling the metal frame (pull one corner off at a time while securing castors)

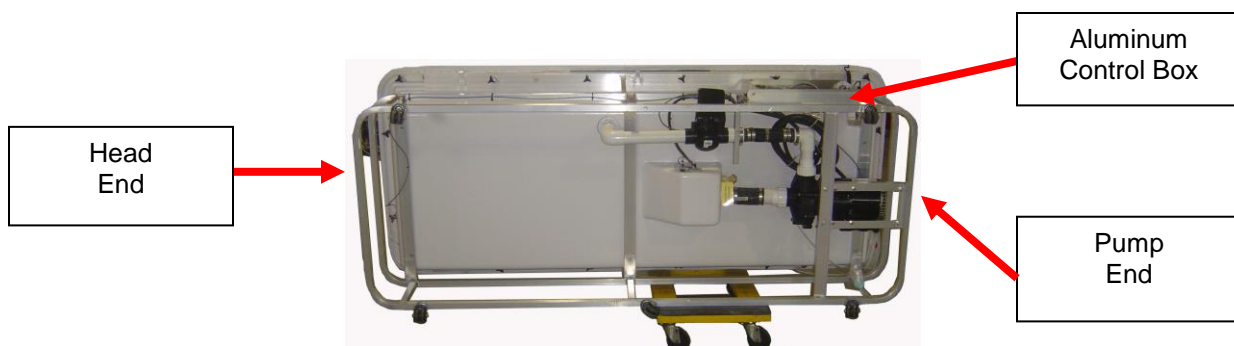


- 2) Install castors (wheels) into frame through holes and tighten nuts using crescent wrench. Castors are found in the Parts Supply Box, and they go into the holes where the shipping bolts were located.



- 3) If bed is already in desired location, skip to step #6.

- 4) To move bed, turn bed on its side once all castors have been installed.  
Use caution; do not do this alone. If possible, place a dolly underneath to protect the bed.



## (HydroMassage® Delivery / Unpacking Instructions Continued)

5) **Move bed to desired location.** Always try to make sure the metal control box is facing toward the center of the room for easy access.

- a) If you must stand the bed on end, always stand it with the head end up and the pump end down.
- b) Use cardboard ring from the shipping box to protect the floor, walls and door threshold and to assist in sliding the bed if necessary.

Pump End

6) **If included, also move External Cooling System near pump (foot) end of bed.**

7) **Put side and end panels back on unit.**

Use black screws from Parts Supply Box to secure end panels



**Before beginning installation, the following components should be ready:**



HydroMassage Bed  
(with pillow)



External Cooling  
System (If applicable)



Parts Supply  
Box

Also, the following items should be ready:

- Owners Manual
- T-Max controller (if applicable)
- Any additional items as specified on the invoice

**\*\*THIS IS THE END OF THE DELIVERY / UNPACKING INSTRUCTIONS\*\***

**\*\*HYDROMASSAGE INSTALLATION INSTRUCTIONS  
BEGIN ON NEXT PAGE\*\***



## HydroMassage® Pre-Installation Checklist

- 1) **Verify HydroMassage room is ready for installation**
- 2) **Check to ensure the following are available:**
  - a) Distilled water
  - b) 220V outlet (not applicable for 100 Series)
  - c) 110V outlet
  - d) CAT5 cable (if applicable)
  - e) T-Max wall cut-outs (if applicable)
  - f) Internet connection (if applicable)
  - g) External cooling system mounting structure (if applicable). Check with contractor to ensure structure is able to hold up to 300 pounds and has method of securing system in place during use, as system will vibrate slightly.
- 3) **Check to ensure no shipping damage to all HydroMassage components:**
  - a) Shipping boxes
  - b) Bed panels
  - c) External cooling unit (if applicable)
  - d) External cooling unit cabinet (if applicable)
- 4) **Position HydroMassage unit(s) in desired location**
  - a) If possible, bed should be positioned with electrical box (mounted on frame) facing towards center of the room for ease of access during service
  - b) If external cooling system will be installed on the HydroMassage room floor, ensure there is sufficient space available for cooling unit, and allow for a minimum of 12" of space for both the intake and exhaust vents of the cooling unit. Exhaust should not be directed towards the HydroMassage bed.

# HydroMassage® External Cooling System Installation

**(This section only applies to 320, 350, 500, and 700 series)**

- 1) Do not connect the 220V outlet to the bed prior to installing the External Cooling System
- 2) Remove both side panels (first) and both end panels (second) if currently attached to the bed. Begin by unscrewing knobs on end panels.



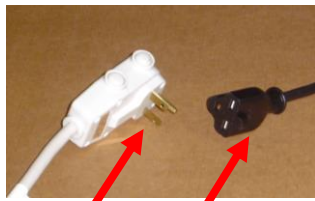
- 3) Position the External Cooling System where desired (maximum of 20' from pump end of bed). Do not place anything on top of or within 2 feet of either vent.

#### 4) Connect the External Cooling System to the Power Cord

- Run tubing and power cord under frame to ensure side panels can be attached to frame
- Connect the cooling system electrical cord (A) to the corresponding power cord (B) coming from the bed. If the cord is not already connected to the control box, insert the power cord through the right side of control box and connect to the corresponding 10, 11 and 12 (C) on the circuit board as shown below.



Cooling System



A

B



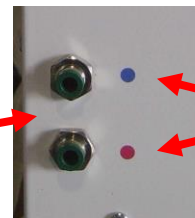
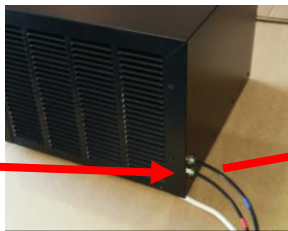
Cooling System Power Cord



C

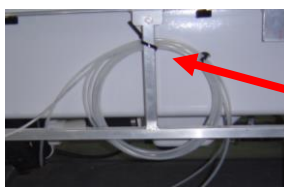
#### 5) Connect the External Cooling System Water Lines

- Connect the two 20' plastic water lines coming from the tank to the cooling system. The lines have red or blue color-coded tape which matches the colored dots at the connections on the cooling system. After inserting the tubes, gently pull on each one to make sure they are securely attached.



Connections for color-coded water lines coming from tank

- 6) Neatly coil the excess cooling system tubing, and secure to the inside of the bed frame with a reusable tie supplied (do not squeeze tubing). Allow for a minimum of 3' of excess wiring to enable movement of HydroMassage unit during servicing or maintenance










Cooling system tubes inside frame



# HydroMassage® Touchscreen Installation

(This section only applies to 340, 350, 500, and 700 series)

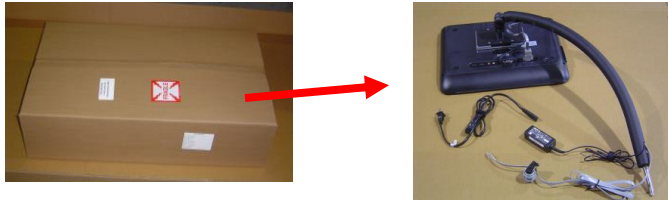
## Touchscreen Components Supplied

Part	Picture	Part	Picture
Touchscreen Monitor & CPU (front view)		Power Cord For Touch Screen (already connected to Touchscreen)	
Touch Screen Pole with wiring (back view)		Communication Cable (flat, silver cable already connected to Touchscreen)	
Battery Backup		Touch Screen Pole Support Receiver (located on top / side of bed frame)	
		Allen Wrench to tighten Touchscreen Pole if necessary. Found in bag attached to frame.	

# HydroMassage® Touchscreen Installation

(This section only applies to 340, 350, 500, and 700 series)

## 1) Remove Touchscreen from parts supply box



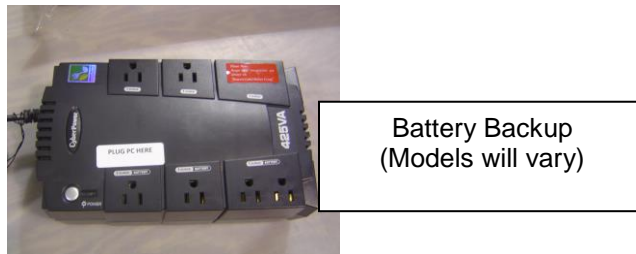
## 2) Identify all component on previous page

## 3) Insert Touchscreen mounting pole into bed frame

- Touchscreen is typically installed on the side of the bed adjacent to a wall. Recommend installing Touchscreen pole on opposite side of Aluminum Control Box (makes control box easier to access).

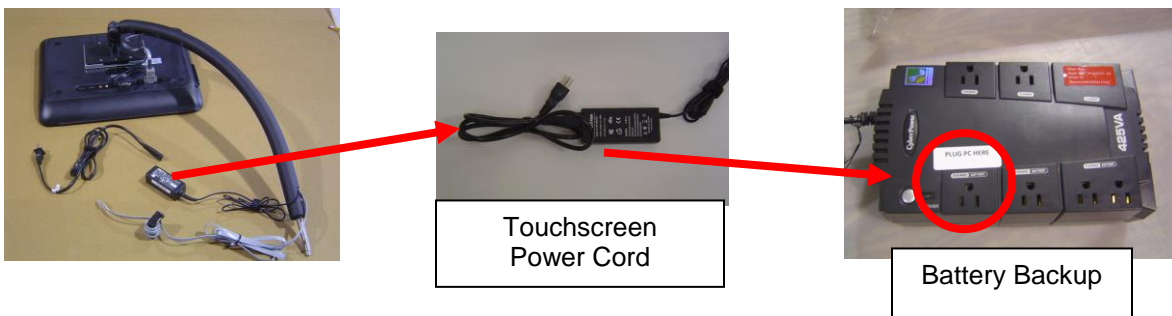


## 4) Plug Battery Backup into standard 110V wall outlet.



## 5) Connect Touchscreen Power Cord to Battery Backup.

- The black power cord coming from the Touchscreen needs to be plugged into the battery back-up.  
\*\*IMPORTANT: make sure the Touchscreen power cord is plugged into the correctly labeled outlet on the battery backup.



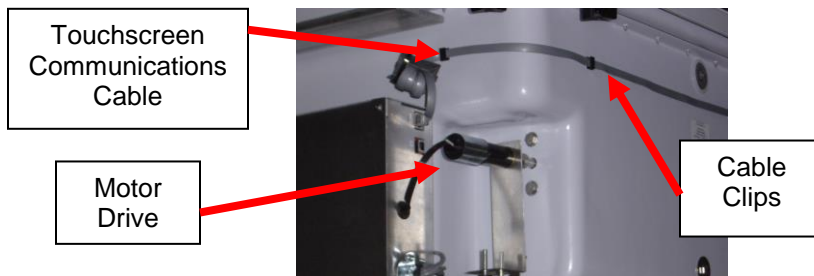
**6) Connect Touchscreen Communications Cable to Control Box.**

- The flat, silver cable coming from the Touchscreen needs to be plugged into the TOP plug on the electrical control box, located on the side of the tank.



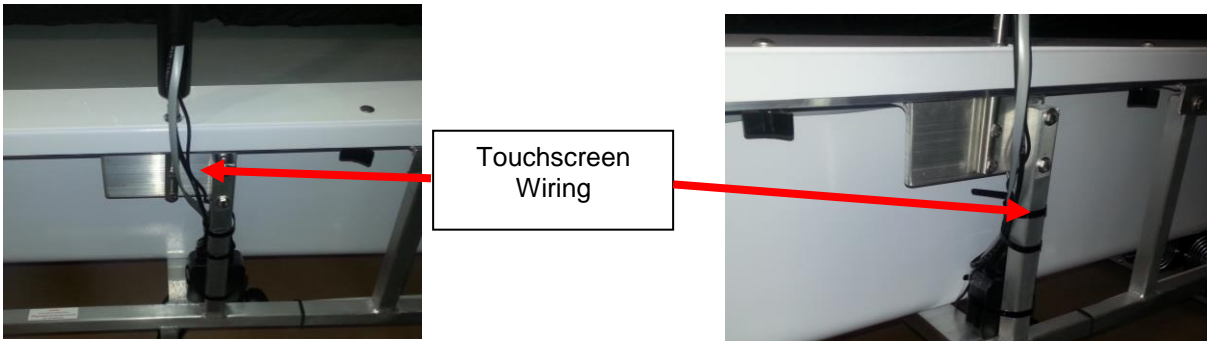
**7) Neatly secure the Communications Cable to tank with the Cable Clips.**

- **\*\*IMPORTANT:** Communications Cable should be secured into clips so it can not come in contact with the Motor Drive directly below the plug.



**8) Neatly secure Touchscreen wiring to HydroMassage frame.**

- Pictures illustrate proper Touchscreen wiring



**9) Users may plug headphones into headphone jack on back of Touchscreen**

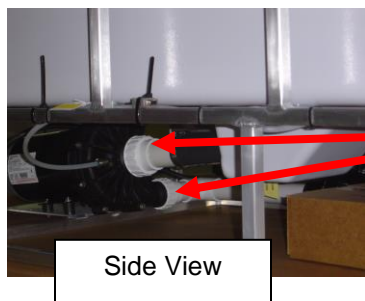
**10) If installing T-Max or other remote usage controls, make connections at this point.**

- Call HydroMassage technical support at 1-800-699-1008 with questions.

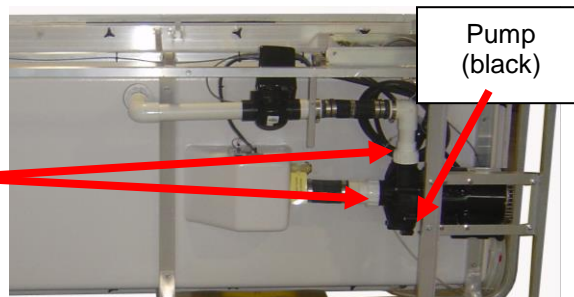


## HydroMassage® Initial Start-up

- 1) **Make sure HydroMassage power cord is NOT plugged into 220V outlet.** If the Touchscreen is not turned on, the bed should never be plugged in at the 220V electrical outlet.
- 2) **Underneath bed, check to ensure two PVC pump unions are tight.**
  - Prior to adding water, do a quick check of the PVC unions (connections on both sides of the black pump) underneath the bed to make sure they did not loosen during shipment. Turn clockwise to tighten
  - \*\*Do not need to turn bed on its side.



Two PVC Pump unions (white PVC)

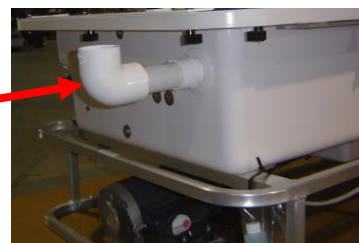


- 3) **Unscrew small PVC breather tube, and screw the large PVC Water Filler Tube (found in Parts Supply Box) into the foot end of the tank to add water.**

Breather Tube



Water Filler Tube



- 4) **Add first 5 gallons of water ONLY (of the total 25 gallons to be added)**
- 5) **With the first 5 gallons of water in the tank, re-inspect PVC fittings underneath bed to ensure all fittings are tight. Also, tighten 20 black knobs at top of tank frame.**

PVC Fittings



Black knobs

- 6) **Press and hold power button on Battery Backup to turn on power to Touchscreen (Models 340, 350, 500, and 700 Only )**

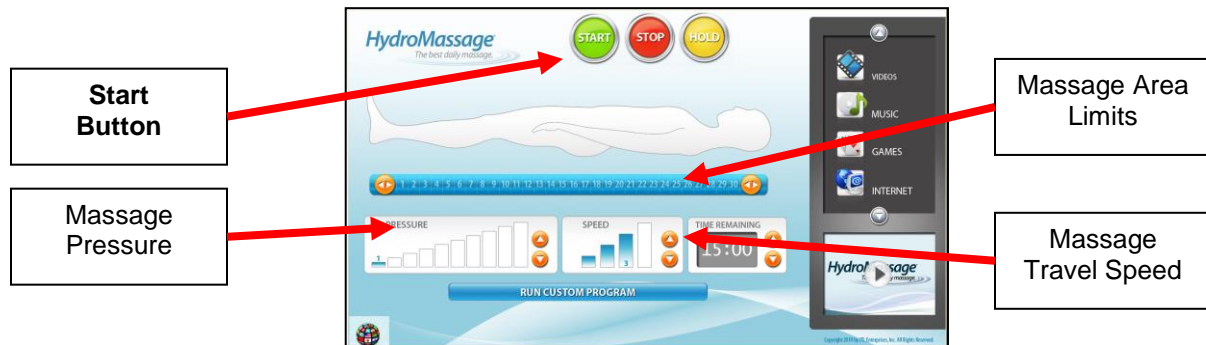
Power Button





**11) Press green start button on Touchscreen to turn on HydroMassage for the first time.**

- Check under unit for any visible signs of leaks



**12) If “Water Temp Cold” Warning Message is displayed on Touchscreen, simply begin a massage session to raise water temperature.**

- Set the massage area between **10 (lower limit)** and **15 (upper limit)**
- Water will rise approx 1° F for every 2 minutes of running time (faster when set at higher massage pressure)

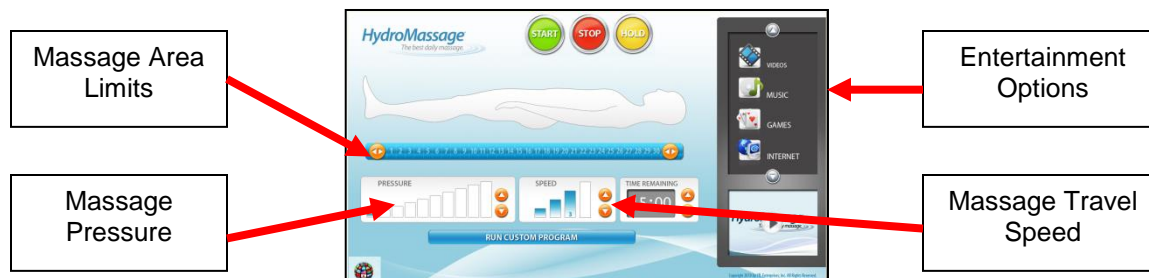




# HydroMassage® Testing

## 1) Test Touchscreen controls

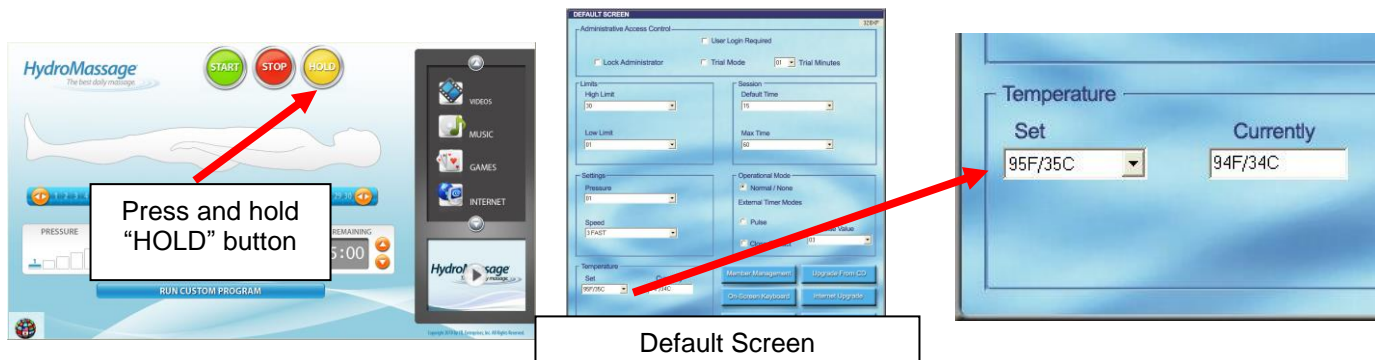
- Confirm HydroMassage working properly by testing the pressure bars, change the massage speed, and launch the entertainment options at least 1X each.



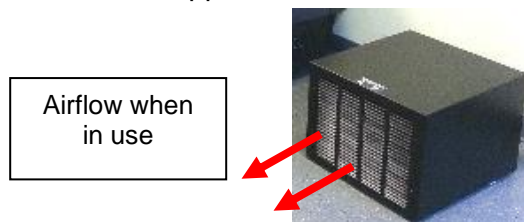
## 2) Test the cooling system (either external and internal)

(For 100, 300, or 320 Models, use Handheld control to view temperature settings).

- Start bed by pressing green Start button. Keep bed running until water temperature exceeds 88 degrees F. \*Keep the massage limits between 11 (Lower) and 18 (Upper) if water is colder than 80 degrees F.
- To view the current temperature settings, press and hold the yellow “HOLD” button on the Touchscreen for 5 seconds, and enter “120700”. The Default Screen will open, and the temperature settings can be found at the lower left-hand corner of the screen.



- With the bed still running, once the water temperature has reached 88 degrees F or higher, reduce the Set Temperature to 85 degrees F. The cooling system fans should engage within 45 seconds when there is a 2-3 degree temperature differential. Hold a piece of paper up against the fans to test if they have been activated.
  - The internal cooling system has fans underneath the bed
  - The external cooling system has one fan inside the external cooling system
- For the External Cooling System, touch the two connected water lines two minutes after the fan engages to confirm an approximate 20 degree F temperature differential.
- Call HydroMassage Technical Support at 1-800-699-1008 if cooling system is not functioning properly.



## HydroMassage® Final Assembly

### 1) Position HydroMassage unit in final location (centered on wall)

- For all models, allow for a minimum of 3' of excess electrical and cooling system wiring to enable movement of HydroMassage unit during servicing or maintenance.
- Secure water lines and power cord together. Give water line enough slack to ensure when cord is moved, the water lines do not bend at cooling system connections.



Excess wiring coiled neatly and zip-tied to give slack when moved



- For 300 or 340 Series models (with internal cooling systems), ensure 12" of clearance from wall at head end of unit for proper airflow.

### 2) Re-attach end panels (first) and side panels (second)

- Complete one last visual inspection under the bed to confirm no water has dripped on the flooring



### 3) Fasten panels securely with end-panel knobs/screws

Screws to attach panels



### 4) Re-attach comfort pad (first) and top cover sheet (second)

- When attaching the comfort pad, begin with the snap at the head-end, and work your way around the bed until entire pad is attached to the panels.
- The nylon cover sheet will attach to the comfort pad with snap connections. There is an opening on one side for the Touchscreen pole.

Comfort pad



Cover Sheet Velcro opening for Touchscreen



### 5) Contact HydroMassage Technical Support Department at 1-800-699-1008 to install HydroMassage Desktop Software and Remote Access Software

# HydroMassage® Post Installation Training

## 1) HydroMassage Usage

- Ensure all staff / customers are familiar with basic HydroMassage operation and functionality
- The pillow should be positioned at the top of the user's shoulders to reduce noise. The pillow may be removed to massage head and neck. Using headphones (or ear buds) during the massage will also significantly reduce noise.
- For shorter users, the upper / lower massage limits should be adjusted to ensure the massage area does not extend below the feet or above the head.
- During the massage, users may rotate the body to massage different muscle groups on all four sides of the body.

## 2) Touchscreen Usage

- For videos on the Touchscreen, double-tap the screen to expand the video to full screen. Double-tap again to return the video to normal play mode.
- The music and video screens can be minimized by touching the massage control section of the screen during the massage

## 3) Setting Usage Defaults

- The Administrator code on the Touchscreen to access the Default Screen is 120700.
- Default settings for 1) Massage time, 2) massage pressure, 3) massage area limits, 4) water temperature, and 5) massage speed may be set here.

## 4) Cleaning / Maintenance

- Recommended Maintenance Schedule may be found online and on the last page of the manual: <http://www.hydromassage.com/Maintenance-Tips.htm>
- Bed cover sheet is waterproof and may be cleaned with antibacterial wipes or spray. It is not necessary, but the cover sheet may also be machine washed but do not machine dry.
- Defoamicide and water filler tube are attached to the frame at the foot end of the bed.
- Customer should understand how to remove the side and end panels, and be able to identify the key components (pump, electrical box, breakers, pressure valve, drive motor, cooling system, rubber barrier, and drain).

## 5) Troubleshooting

- If the pressure unexpectedly rises and falls during the massage, add 2 teaspoons of defoamicide. Recommended Maintenance instructions suggest doing this every 3 months. This is also a good time to clean the machine if maintenance has not been performed in the past 12 months.
- The HydroMassage bed should be rebooted at least 1X per week. This often resolves any minor software issues. See the Maintenance Schedule either on-line or on last page of the manual.

## 6) Electrical Usage

- Average watts of electricity used during a 15-minute session is 3700 watts (3.7KW). At lower pressure levels, the average watts used is approximately 2500 watts (2.5KW) if the cooling system is not in use. At higher pressure levels with the cooling system is engaged, the electricity used is approximately 5000 watts (5KW). In the USA, average electricity cost for a 15-minute session is \$0.06. When not in use, the system uses approximately \$2.00 in electricity per month to maintain temperature.

## 7) Paperwork

- Customer Acceptance document should be signed and returned to HydroMassage after installation.

**This completes installation and set-up of the HydroMassage bed**

## HydroMassage® Touchscreen Overview

The HydroMassage Touchscreen is a feature that was designed to increase the functionality, ease of use, and overall level of enjoyment of a HydroMassage Dry Hydrotherapy system. In addition to allowing the user to adjust the pressure, speed, target areas, and time of massage, the Touchscreen also adds entertainment features including music, games, videos, books, self awareness and internet and more.



Button	Function
Start	Begins the massage session
Stop	Turns off the machine at any time during the massage
Hold	Holds the jets at their current location (the massage will continue at the existing pressure)
Globe	Changes language (Disabled by default)
Low Limit ↔	Press the ↔ button next to the “1” on the 1-30 scale then slide the massage limit to the right to prevent the massage bar from massaging to the left of this limit.
High Limit ↔	Press the ↔ button next to the “30” on the 1-30 scale then slide the massage limit to the left to prevent the massage bar from massaging to the right of this limit.
Pressure	Adjusts the intensity of the massage on a scale from 1-10 (2-38 PSI).
Speed	Controls how quickly the jets travel along the body (4 speeds).
Time	Indicates the time remaining of the massage (May only be adjusted prior to pressing “Start”).
Entertainment	Users may listen to music, play games, watch movies, etc and surf the internet while receiving their massage (must have an internet connection to go to the internet).
Log-On	Allows users to enter their personalized code to begin their massage. This allows tracking of client usage, and restricts massage time to total time purchased.(accessed automatically when setting is set in Administrator area
Run Custom Program	Enable user to select, edit, or create a customized massage and store it for future use (10 presets allowed).
Administrator	Restricted section which gives owner of bed access to all machine settings. Accessed by holding the “Stop” button down for 5 seconds then enter Administrator code 120700



## HydroMassage® Touchscreen Features

1. **Massage Settings.** The following variables may be adjusted to provide a fully customized massage based on user preferences. The default settings for each variable may be changed in the Administrator Menu.

- a. **Pressure.** The massage intensity ranges from 2-38 PSI on a scale from 1-10. The current pressure will be displayed in two ways: 1) The current pressure level is shown as a number directly below the Pressure heading, and 2) the same number of pressure bars will be highlighted in blue (Ex. If the pressure is set at level 8, then 8 bars will be highlighted in blue). To adjust the Pressure, either press the Up or Down arrows, or simply press one of the ten bars. Pressure Seven shown.



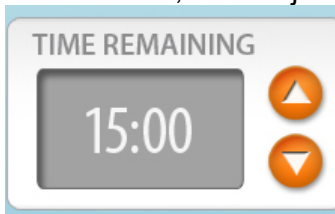
- b. **Speed.** There are four different speeds at which the jets travel up and down the body: Slow, Medium, Fast, and Fastest. The current speed is displayed in two ways: 1) The current speed will be shown as a number directly below the Speed heading, and 2) the same number of speed bars will be highlighted in blue (Ex. If the Speed is set at level 2, then 2 bars will be highlighted in blue). To adjust the Speed, either press the Speed Up or Down arrows, or press one of the four bars directly.



- c. **Limits.** The High and Low Limits allow the user to set their desired massage zone by indicating two points along the body which the massage will stay between. The High Limit is the point that the massage will not travel above on the body, and conversely, the Low Limit is the point that the massage will not travel below on the body. To adjust the Limits, press the ↔ button next to the “1” or “30” on the 1-30 scale then either slide the massage limit to the right or left, or touch the new desired limit, and the button will move to that location. The massage will be performed between the two settings. An example of massaging between 10 -20 is shown.



- d. **Time.** The length of the massage may be set for a period of time ranging from 1-60 minutes, in 1 minute increments. The length of the massage may *only* be changed prior to beginning the massage session. Once the massage begins, the clock will display the remaining massage time. To adjust the Time before beginning the massage, press either the Up or Down arrows directly to the right of the clock. To change the default time, see “Adjusting Defaults” under Advanced Features.



e. **Temperature.** The temperature of the water may be adjusted between 85-105 degrees Fahrenheit (33-45 degrees Celsius), and will remain within two degrees of the selected temperature so long as the bed has electricity. The current temperature is not displayed on the Main Menu of the Touchscreen. To adjust the Temperature, enter the Administrator area by holding the Stop button for 5 seconds then enter the HydroMassage Administrator code (120700). The temperature controls may be found at the lower left-hand corner of the Default window, indicating both the programmed and current water temperature. Select the new desired temperature from a drop-down list showing the available temperature settings, and allow 3-4 minutes for each degree of temperature change to occur.

2. **Entertainment Features.** The HydroMassage Touchscreen gives the user the ability to listen to music, watch movies, play computer games, listen to or read books, watch relaxing video's, self awareness programs, read health information, or even surf the internet. **\*Please read the copyright disclaimer in the Terms and Conditions before loading new multimedia files or music.**



a. **Music.** The user may listen to music stored on the Touchscreen computer. A small sample of music is included; however, other songs may be added\*. To play a song, first, click the music button to view the Menu of current songs. Then, select the desired song by touching the song name (Song selected will be highlighted in blue). Press the Play button to begin listening to the song. To adjust the volume, place your finger on the volume indicator and drag it to the desired volume. We suggest that you keep this at the highest volume possible, and adjust the volume on the headphones. If you touch outside of the music window, the music window will disappear. Press the Music button to see the music window again.

b. **Videos.** The user may also watch videos that are stored on the Touchscreen computer. A small sample of movies are included; however, other videos may be added\*. To play a movie, first, click the Movie button to view the Menu of current videos. Then, select the desired movie by touching the movie name (movie selected will be highlighted in blue). Press the Play button on the screen, and the movie player will open. Use the controls at the bottom of the screen to play, pause, or stop the movie. The controls in the lower left-hand corner of the screen allow the user to control the massage while watching the movie. To return to the Touchscreen Main Menu, click on the Close button in the lower right-hand corner.

To maximize the screen use your finger to double-click on the movie directly. Double-click on the screen again to return the screen to the original size.

c. **Games.** Click the Games button to view the Menu of games installed on the Touchscreen. Then, select the desired game by touching the name of the game (name will be highlighted in blue). Press the Play button to launch the game.

d. **Books.** Electronic and Audio books are available by clicking the book button then using the drop down to select between electronic or audio; then select your choice and press play.

e. **Self Awareness program.** There is a 17 step Self Awareness program, including an introduction written by the past president of the Bio-feedback Society of America. It is designed to make a user more aware of the triggers that cause headaches, desires to want to smoke or eat, and causes of pain.

f. **Health Information.** Health and wellness articles

g. **Information about HydroMassage**

**f. Internet.** If an internet connection is available, you must first enable the internet button through Administrator, Adv Options. (It is disabled by default) The user may access the Internet while on the HydroMassage. For this reason, the computer keyboard should be kept plugged into the CPU and stored next to the bed. **Anti-virus software** is **NOT** included with purchase. It is the customer's responsibility to purchase, register, and maintain anti-virus protection if so desired. Please see Terms and Conditions. **Unless you are positive that you will maintain proper Anti Virus and Spyware software, JTL recommends you do not enable the internet option. Failures due to virus's or Spyware are not covered by JTL warranty.**

## Touchscreen Advanced Features

The following options are beyond the scope of normal, everyday use of the bed. The Advanced Features allow the owner to track client usage, set up customized massages, receive software upgrades, change the massage default settings, and more.

**1) Custom Preset Programs.** Preset Programs are designed to allow the user to create prescribed treatments by setting up massages that suit their needs specifically. Each line represents a % segment of the massage as a whole. Sample presets are loaded into the Touchscreen; however, programs may be changed at any time. To access a Custom Program, click on the Run Custom Program button to access the Program Menu, and select the desired Program from the drop-down list at the top of the screen. Review the parameters of the Program; make any changes necessary to the Limits, Pressure, Speed, Direction, or Time, and Click Start at the bottom left corner of the Menu. You can also click on the Save button after entering in custom parameters to save for future use. (The save button will only work if the administrator button is unchecked in the advanced options window or if it is being saved for a user that has entered their logon number).

The screenshot shows a touchscreen interface for configuring a massage program. At the top, there is a 'Preset Program' dropdown menu and a 'Save' button. Below this is a table with 10 rows, each representing a 'Section Active' (1-10). Each row contains seven columns of dropdown menus for 'High Limit', 'Low Limit', 'Pressure', 'Speed', 'Direction', and 'Time Unit'. At the bottom of the screen, there is a 'Time Remaining' display showing '15:00', and four buttons: 'Start', 'Cancel', 'Close', and 'Stop'. A note at the bottom of the table area reads: 'Touch arrow and slide finger to desired limit, then release.'

Section Active	High Limit	Low Limit	Pressure	Speed	Direction	Time Unit
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						

Time Remaining: 15:00

- 2) **Administrator Options.** The Administrator Menu is for performing functions that should not be accessed by message users. To access this menu, press and hold the “HOLD” button on the main screen for 5 seconds then enter the HydroMassage Administrator Code (120700). The Administrator Default windows will open. Once you exit the Administrator Menu, you must re-enter the Admin code to gain access to this menu again.

The screenshot shows the 'DEFAULT SCREEN' for the HydroMassage Administrator. It features several sections:

- Administrative Access Control:** Includes checkboxes for 'User Login Required', 'Lock Administrator', and 'Trial Mode'. A 'Trial Minutes' dropdown is set to '01'.
- Limits:** 'High Limit' is set to '30' and 'Low Limit' is set to '01'.
- Session:** 'Default Time' is set to '15' and 'Max Time' is set to '60'.
- Settings:** 'Pressure' is set to '01' and 'Speed' is set to '3 FAST'.
- Operational Mode:** 'Normal / None' is selected. 'External Timer Modes' includes 'Pulse' and 'Close Contact'. 'Pulse Value' is set to '03'.
- Temperature:** 'Set' is '95F/35C' and 'Currently' is '94F/34C'.
- Buttons:** 'Member Management', 'Upgrade From CD', 'On-Screen Keyboard', 'Internet Upgrade', 'Advanced Options', and 'CLOSE'.

- a) **Adjusting Defaults.** On the Default Screen, select the new default settings from the High Limit, Low Limit, Pressure, Speed, Temperature, and Time drop-down boxes. This will allow you to set the defaults to meet the needs of the largest percentage of your users to save time while setting up sessions. Click Close to return to the Main Menu. When starting a session, if a user does not alter the pressure, speed, time, or limits, the massage will always begin at the default settings.
- b) **Operational Modes.** Normal/None should always be selected unless an external timer is to be used. When hooking up an external timer, the following two options may be selected. **\*For either option, make sure the contact closure is continuity only. See External Timer Connection Section for more details.**
- (1) Pulse. The bed will run for the number of pulses it receives from the timer (usually a dollar bill reader multiplied) by the Pulse Value (minutes).
  - (2) Close Contact. The bed will run as long as contacts in the external timer are closed. (T-Max 3A timer or other similar device)
- c) **User Log-In checkbox.** When this box is checked, the bed may not be operated without first logging in with a password. See User Log-In Menu below. This is only used when session time needs to be controlled.
- d) **Member Management.** This is very valuable tool if you would like to generate recurring revenue from your HydroMassage. You can use the Member Management System to sell packages by, the minute, day, week, or month and limit usage. The information for the members that have access to the HydroMassage is kept in the User Database.



## HydroMassage® Touchscreen Member Management Software Database

This feature is used to create separate accounts for each client that receives massage sessions. This is particularly useful because it allows the administrator to track client usage or limit cash-paying customers to only receive the length of massage that they have purchased. Each user will be assigned a unique code consisting of 6-9 digits.

To launch, go to Administrator Options, and click Member Management button

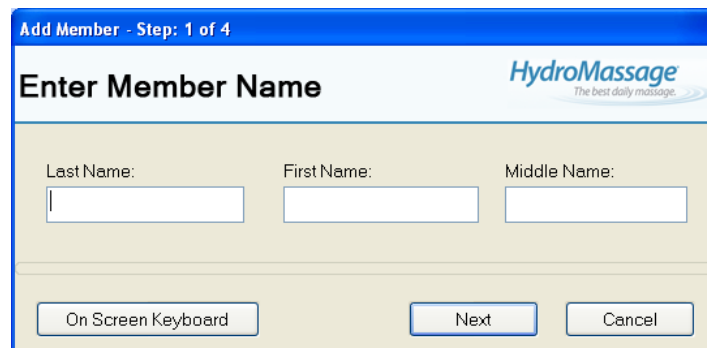
### Member Management Main Menu



### Add Member Wizard

When you select “Add Member” from the Member Manager Main Menu, the following screens will walk you through the process to add a new member.

1. Enter Member Name
  - a. Enter member last and first name. Middle name (or initial) is optional.



2. Select Account Type

- a. Setting up the member's Account Type will define how frequently the member may use HydroMassage.
  - i. For recurring, daily usage, select the default setting of "1 X Per Day" (recommended).
  - ii. For any other account type, (ex. XX number of minutes, a free trial for XX number of days, etc), select "Custom". When "Custom" is selected, the additional options will become visible.

Add Member - Step: 2 of 4

### Select Account Type

Default

1 X Per Day    Minutes Per Day:

(This is the recommended account type)

Custom

Recurring:     Weekly     Monthly

Minutes     Minutes

Free Trial     Trial Days

Unlimited

On Screen Keyboard    Next    Cancel

3. Assign Log-in ID

- a. This is the ID number that the member will enter to access their HydroMassage account.
  - i. Manual ID- select this option if you wish to pick the ID number (most commonly a customer or membership number with your business).
  - ii. Auto Generate ID- this option will randomly assign an ID number for you.

Add Member - Step: 3 of 4

### Assign Log-In ID

The member will use this ID number to access HydroMassage.

ID #:

(6-9 digits)

Manual ID

Auto Generate ID

On Screen Keyboard    Next    Cancel

4. Review Account Info

- a. Before submitting the new member, you may review and edit any criteria which was entered during the process. Click on any field to edit.

**View Members**

When you select “View Members” from the Main Menu, this screen appears allowing you to view all HydroMassage members.

Full Name	Customer ID	Logon ID	Account Type	Activation Date	Account Status	Last Use	Minute Reset date	Total Minutes Used	Total # Messages	Avg length (Min)	D.O.B
Heath Marty,		666666	Recurring	03/03/2010	Enabled	11/11/2010	3rd.	0	1	0	
Sample Sample,		999999	Recurring	03/01/2010	Enabled	03/01/2010	1st.	No Usage	No Usage	No Usage	
Heather Abella,		125648	Recurring	03/01/2010	Enabled	03/01/2010	1st.	No Usage	No Usage	No Usage	
Risa Abella,		131582	Recurring	03/01/2010	Enabled	03/01/2010	1st.	No Usage	No Usage	No Usage	
Arnold Abramowitz,		131976	Recurring	03/01/2010	Enabled	03/01/2010	1st.	No Usage	No Usage	No Usage	
Myrna Abramowitz,		132370	Recurring	03/01/2010	Enabled	03/01/2010	1st.	No Usage	No Usage	No Usage	
Steven Akin,		132784	Recurring	03/01/2010	Enabled	03/01/2010	1st.	No Usage	No Usage	No Usage	
Gordon Akum,		133158	Recurring	03/01/2010	Enabled	03/01/2010	1st.	No Usage	No Usage	No Usage	
Elena Aleinikov,		133552	Recurring	03/01/2010	Enabled	03/01/2010	1st.	No Usage	No Usage	No Usage	
Laurence Alexander,		133946	Recurring	03/01/2010	Enabled	03/01/2010	1st.	No Usage	No Usage	No Usage	
Mak Anshan,		134340	Recurring	03/01/2010	Enabled	03/01/2010	1st.	No Usage	No Usage	No Usage	
Ira Applebaum,		134734	Recurring	03/01/2010	Enabled	03/01/2010	1st.	No Usage	No Usage	No Usage	
Beverley Aron,		135128	Recurring	03/01/2010	Enabled	03/01/2010	1st.	No Usage	No Usage	No Usage	
Esther Assor,		135522	Recurring	03/01/2010	Enabled	03/01/2010	1st.	No Usage	No Usage	No Usage	
Inna Avshalom,		135916	Recurring	03/01/2010	Enabled	03/01/2010	1st.	No Usage	No Usage	No Usage	
Pavel Balonov,		136310	Recurring	03/01/2010	Enabled	03/01/2010	1st.	No Usage	No Usage	No Usage	
Laura Barranca,		136704	Recurring	03/01/2010	Enabled	03/01/2010	1st.	No Usage	No Usage	No Usage	
Gail Benick,		137098	Recurring	03/01/2010	Enabled	03/01/2010	1st.	No Usage	No Usage	No Usage	
Joyce Bennett,		137492	Recurring	03/01/2010	Enabled	03/01/2010	1st.	No Usage	No Usage	No Usage	
Cindy Ber,		137886	Recurring	03/01/2010	Enabled	03/01/2010	1st.	No Usage	No Usage	No Usage	
Larissa Ber,		138280	Recurring	03/01/2010	Enabled	03/01/2010	1st.	No Usage	No Usage	No Usage	
Karen Bernstein,		138674	Recurring	03/01/2010	Enabled	03/01/2010	1st.	No Usage	No Usage	No Usage	
Sandy Besser,		139068	Recurring	03/01/2010	Enabled	03/01/2010	1st.	No Usage	No Usage	No Usage	
Maxine Bessin,		139462	Recurring	03/01/2010	Enabled	03/01/2010	1st.	No Usage	No Usage	No Usage	
Louise Biha,		139856	Recurring	03/01/2010	Enabled	03/01/2010	1st.	No Usage	No Usage	No Usage	
Alejandra Blanco,		140250	Recurring	03/01/2010	Enabled	03/01/2010	1st.	No Usage	No Usage	No Usage	
Jodi Block,		140644	Recurring	03/01/2010	Enabled	03/01/2010	1st.	No Usage	No Usage	No Usage	
Jeanette Bloom,		141038	Recurring	03/01/2010	Enabled	03/01/2010	1st.	No Usage	No Usage	No Usage	
David Borenstein,		141432	Recurino	03/01/2010	Enabled	03/01/2010	1st.	No Usage	No Usage	No Usage	

## Advanced Options

When you select “Advanced” on the Main Menu, this screen appears. Use this feature if you do not wish to use the Add New Member Wizard. It contains all of the features of the Wizard on one screen.

Once a member is entered in the system they will see the logon pad appear when they attempt to press the start button. The user must enter their 6-9 digit code and press enter. This will log them on and show them their statistics and time remaining. The number of minutes used during their massages will be deducted from the total number of minutes that you have allocated to them. Once they press the start button they will have full use of all the Touchscreen features. When they run out of minutes, they will no longer be able to operate the bed until the next cycle begins (typically the next day).

**\*Important.** The system will not allow you to use 120700 as a user code. This will give your user access to the Admin Menu.

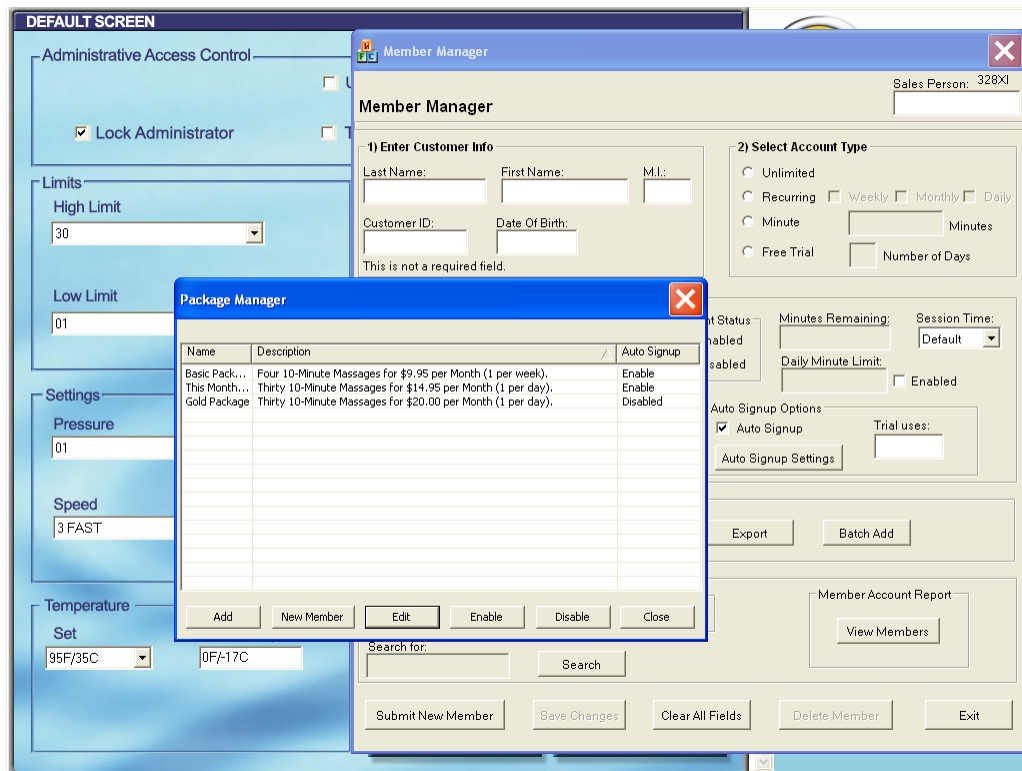
# HydroMassage® Touchscreen Trial Mode and Auto Signup Feature

These two modes work hand and hand to offer trails and actually sign up new clients during staffed or non-staffed hours.

- a. By pushing the Auto Signup settings button you will be walked through a program that will help you design up to three packages you can offer to users. When they press the Trial button the HydroMassage will give them a trial massage and offer them the options you have setup.
- b. As it is convenient you can press the Recent Signups button to see who has signed up for recurring usage on the HydroMassage. They will have access to the HydroMassage immediately but you can simply check the Disable button on their account if they are late with their payment or do not pay. Then check the Enable button when their account is brought up to date.

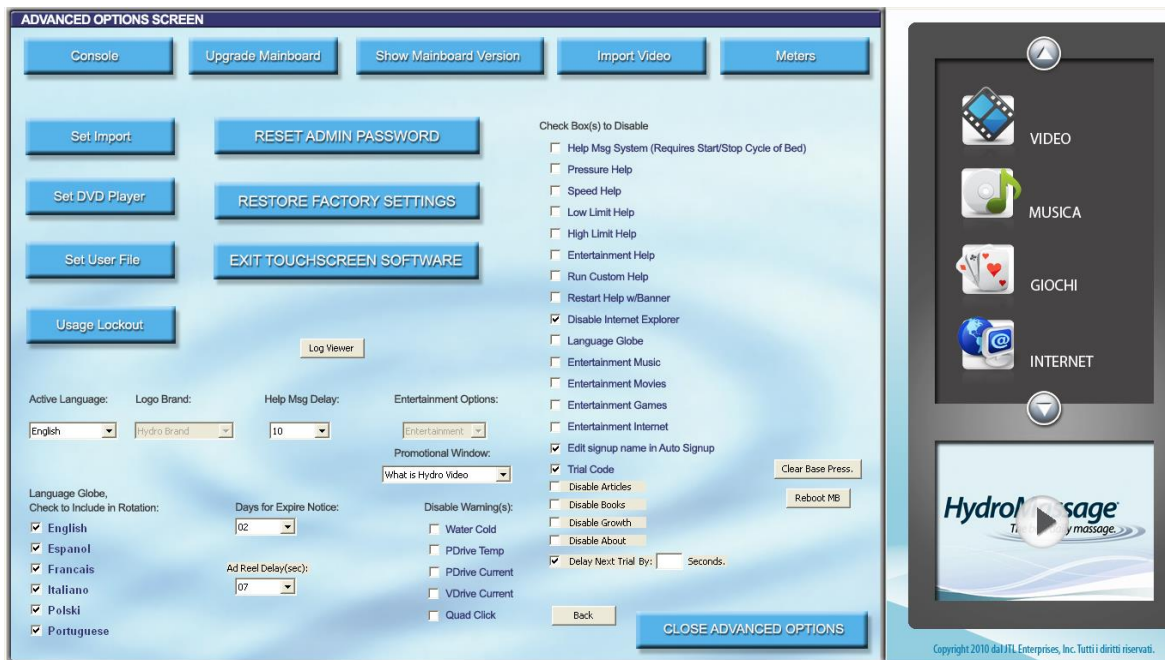
## Add Batch Membership

You can Batch Add your entire membership using a CSV (Comma Separated Value) file and the Batch Add button. When you add all the members you can preload their Logon code to something they are already familiar with, the number of free trial massages you would like to offer, and the number of minutes of the massages. The auto signup feature will automatically begin at the end of their massage. This is especially useful during the first month or two when you are trying to get the word out about HydroMassage, or if you'd like to give your clients 1-2 free massages during the year.



## HydroMassage® Touchscreen Advanced / Technical Options

To access the advanced options, press the advanced options button on the administrator screen (first screen)



- Console: Shows the steps the processor is working through.
- Upgrade Mainboard: Upgrades the processor software. \*Should only be used under the guidance of the HydroMassage Technical support department.
- Show Mainboard Version: Will show the present version of software running.
- Import Video: Allows you to import your preferred video player.
- Reset Admin Password: Changes the Administrator Password from 120700.
- Restore Factory Settings: This will delete any changes you have made including removal of music, video's books etc that you have added.
- Usage Lockout: Enter codes given by the HydroMassage Technical Support Department.
- Active Language: Sets the language typically spoken by your users (uncheck any languages you wish to not be offered).
- Promotional Window: Add or change information in the promotional window. Up to 10 different choices or multiples of each equaling 10.
- Days to Expire Notice: Used for auto signup feature.
- Ad Reel Delay: The time between each promotional window change.
- Disable Warning: Allows you to stop nuisance warnings.
- Clear Base Press. \*Should only be used under the guidance of the HydroMassage Technical support department.
- Reboot MB: Performs a first level reboot of the software. A full reboot is performed by unplugging the HydroMassage and restarting the PC.
- Check Boxes to Disable: Disable any function listed.
- Delay Trial by \_\_\_ Seconds: When bed is in free trial mode, this prevents overuse by one individual because it delays the next trial used by the predetermined number of seconds after the first trial massage ends.



## HydroMassage® Touchscreen Promotional Window

The Promotional window can run up to 10 different ads to help sell more products or services in your business, in addition to actually selling ad-space or co-marketing with other local businesses. Ad specifications:

- Adobe Photoshop, sized to 255 pixels wide, 187 pixels high, 72 dpi.
- Font: Myriad Pro Condensed; Drop shadow: 75% opacity
- Blue background; Gradient overlay: 100% opacity - Blue: pms 20b4e2

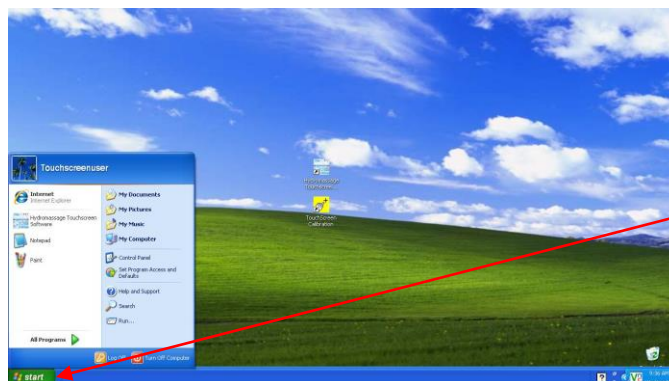


### How to Add Advertisements to the Promotion Window



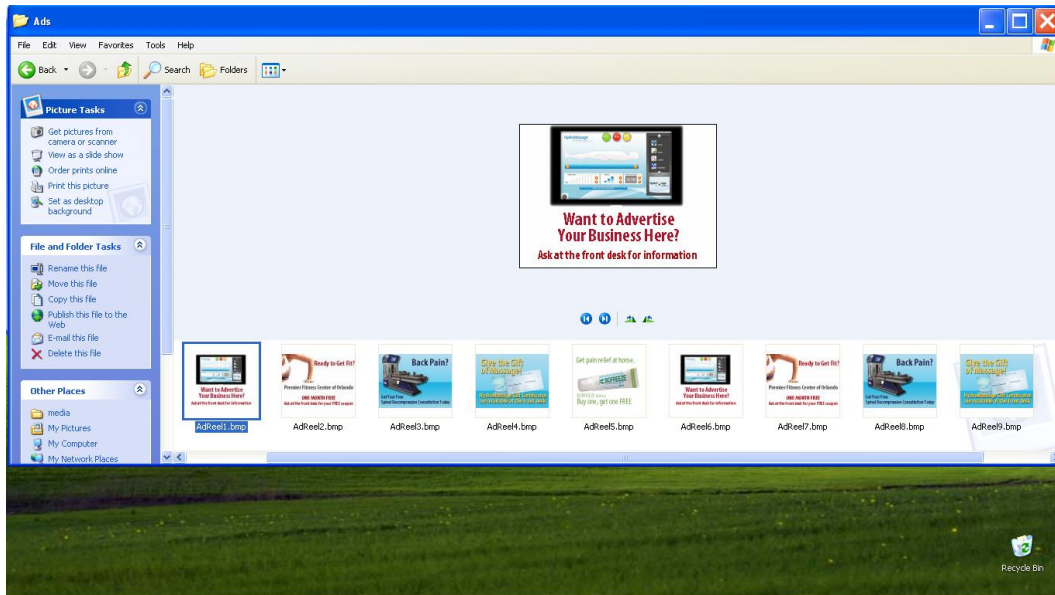
Promotion Window

- To add advertisements, first exit out of the software by hitting “Esc” on the top left of the keyboard or go into administrator, then advanced options, and then click on “Exit Touchscreen Software”
- Then once the HydroMassage software has closed, use the mouse and click start on the desktop



Start Button

- 3) Click on “My Computer”. Once inside “My Computer”, click on “Local Disk (C:)”
- 4) Once inside Local Disk (C:) click on the folder named “Media”
- 5) Click on the folder named “Ads”. Once inside “Ads” you will see the picture files that are named AdReel1.bmp – AdReel10.bmp. These are the current ads on the Touchscreen. You can use these ads, or you create your own ads. If you create your own ads you can rename these ads or move them to a different folder.
- 6) When creating your own ads the width of the ad must be 255 Pixels and the height must be 187 Pixels.



In this picture the default is 5 unique pictures, but 10 image files. You can have up to 10 images; if you have less they will scroll on the screen at your set interval for a total of 10 images.



## HydroMassage® Touchscreen Frequently Asked Questions

1. How do I start the program on my computer for the first time?
  - a. With the bed **unplugged**, locate the power button on the Battery Backup for the Touch Screen PC, Press and hold the power button 3 for seconds.
  - b. Press the power button on the Touch Screen display.
  - c. After the Touch Screen Software has fully loaded, a communications status window will pop up in the upper left corner of the display.
  - d. Connect the 220 power to the bed, the communications status window will close and initialization process box will appear. After the initialization box disappears press the Start button Touch Screen to operate the bed
2. How do I turn off the Touchscreen?
  - a. Press and release the power button on the front of the PC, Windows will shut down, you can then disconnect the 220 volt power to the bed
  - b. NOTE: If you shut off the Touchscreen and unplug the bed, your water temperatures will not be maintained, and you will need to follow normal start-up procedures to restart the Touchscreen and bed.
3. The Touchscreen stopped working. How do I reset the program?
  - a. If the Touchscreen stops working correctly for any other reason, the Touchscreen will need to be reset. To do so, first unplug the bed from the electrical connection. Next, press the power button on the Touch Screen; Windows will shut down automatically.
  - b. Wait approximately 45 seconds before restarting the Touch Screen.
  - c. After the Touch Screen Software has fully loaded and a communications error window will pop up.
  - d. Connect the 220 power to the bed
  - e. Wait for the initialization process to complete, and then operate normally
4. I see a screen that says “Establishing Communication”. What does this mean?
  - a. This window may appear during the initial Touchscreen set-up before the bed is plugged in. If this window appears after the bed has been in operation, it means that a connection has been lost.
  - b. First, follow the procedures in step 3. If this fails to correct the issue, check the main circuit breaker to the bed, also check the Reset Breakers on the side of the control box.( Pg 47 “N”) Recheck all wires (index at end of manual) .
5. How do I start my massage session?
  - a. To begin a massage, press the Start button at any time. If no massage settings are changed, the massage will begin at the machine’s default settings. Prior to starting the massage, the user may adjust the pressure, speed, limits, and time of the massage.
6. Can I adjust massage settings after my massage session has started?
  - a. Yes. At any time during the massage, the user may adjust the High Limit, Low Limit, Pressure, or Speed. Temperature may only be adjusted in the Administrator Menu.
7. Can I hold the massage in one localized area?
  - a. Yes. Click the “Hold” button in the top right corner of the Touchscreen Main Menu. When this button is pressed, the massage will only travel from one segment above to one segment below the current area (Ex. If the Hold button is pressed while the jets are currently on segment 16, then while paused, the massage will only range from segments 15-17 on slow speed). Press the Hold button again to resume normal operation.

8. How do I add a new Custom Program?
  - a. In the Custom Program Menu, select the drop-down list of current massages. At the bottom of this list, there are blank programs available for use. Select one of the blank massages, and set the massage settings as desired to create the custom program.
9. How do I establish an internet connection?
  - a. The CPU that is shipped with the Touchscreen is equipped to handle a standard, high-speed internet connection. Please contact your internet provider with any questions.
10. Is anti-virus software included?
  - a. **No. It is the customer's responsibility to purchase, register, and maintain this software if so desired. Damage caused by viruses is not covered under the warranty.**
11. Can I receive software upgrades when they are available?
  - a. Software upgrades may become available based on the model and software version you have. Please call out technical support department to inquire. 1-800-699-1008 or 1-727-536-5566
12. The cursor is not following my finger on the screen. How do I fix this?
  - a. To recalibrate the Touchscreen, first, on the keyboard, press ESC twice to close down the program. On the desktop, double-click the TS Calibration icon, and click the Calibrate button. Follow the instructions to reset the screen. Double-click the Touchscreen Bed icon when finished to re-launch the Touchscreen program.
13. The Touch Screen will not stay in place. How do I fix this?
  - a. Use the Allen wrench provided to tighten the bolt on the side of the Touch Screen pole

## **HydroMassage® Cleaning Guidelines**

1. Before cleaning the monitor, unplug the monitor power cord from the back of the monitor.
2. To clean your antistatic screen, use a special screen-cleaning tissue, or lightly dampen a soft, clean cloth with water. Do not use benzene, thinner, ammonia, abrasive cleaners, or compressed air.
3. The HydroMassage cover sheet is waterproof. Any antibacterial wipes or cleaning spray may be used to clean HydroMassage. The cover sheet may also be washed if desired (do not machine dry).

## HydroMassage® Cleaning and Maintenance

In order that we may best serve you, before calling technical support please note the product serial number and be prepared to answer questions regarding operational problems. **Technical Support 1+727-536-5566.**

**The serial number label is located at the foot end of the tank on the tub.**

- 1) **Always frequently inspect** under the pump, pressure valve, plumbing, and cooling unit for any signs of water leakage.
- 2) The use of distilled water is necessary to keep the warranty effective. Our most frequent problems are due to chlorine, calcium and minerals. Even though tap water and spring water may appear clean they contain chlorine, calcium and minerals, which will make the machine cavitate. (Pressure goes up and down from foaming or dirty water; this reduces the life of several components.)
- 3) 2. It is highly recommended that you add 2 teaspoons of Defoamicide™ with 2 gallons of water every 3 months (add three gallons if using 30+ massage per day). The Defoamicide will maintain proper water quality. **Poor water quality will cause sudden pressure changes during a massage.** See pg 43 Photo 3a in manual for filler location – Defoamicide is attached to frame.
- 4) Cleaning and service of the machine is recommended every 12 months. Barriers should be replaced at this time as well.

### HydroMassage Annual Cleaning

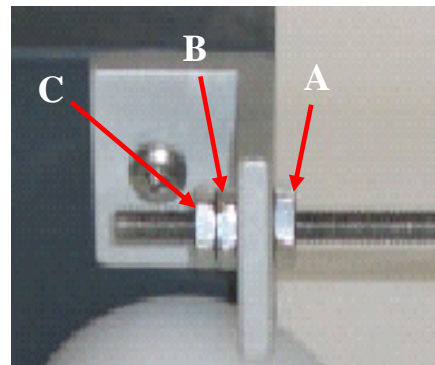
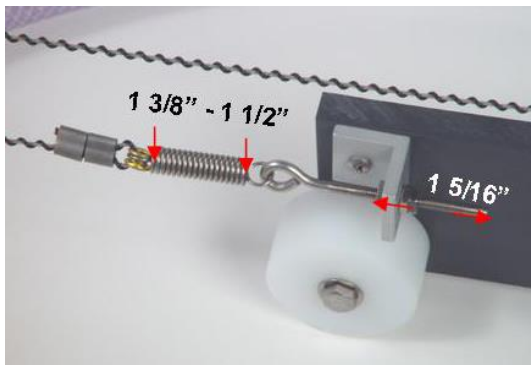
#### Necessary tools

- Small flat tip screwdriver
- Small and medium Phillips screwdriver
- 3/8 wrench box or open end wrench
- 7/16 or 11 mm box or open end wrench
- 1/8 Allen wrench
- Pliers
- Garden hose or shop VAC
- \*\*Towels and Scotch Brite sponge, cleanser (non-abrasive i.e. soft scrub) and 25 gallons of distilled water.

### Cleaning Instructions

- 1) **DISCONNECT POWER prior to beginning cleaning / maintenance**
- 2) Remove cover sheet and comfort pad and the 4 outside panels
  - a) Remove cover sheet and comfort pad
  - b) Remove the 8 head end and foot end thumb screws.
  - c) Remove the long side panels held in place with Velcro
  - d) Remove end panels at foot and head of bed.
- 3) Clean fins on cooling unit by vacuuming or brushing off dust and lint.

- 4) Remove the 20 black knobs on the underside top edge of bed by rotating counter clockwise. Remove the 4 flat bar retainers.
- 5) Remove the barrier retaining ring. The ring is one piece, starting at the center foot end; simply pull the ring out of its groove.
- 6) Remove the barrier. Inspect the barrier, tackiness or stickiness indicates barrier needs to be replaced. **Do not use any commercial cleaners or disinfectants as they may damage the barrier.** For sanitation, periodically clean with mild soapy warm water only. Barriers must be replaced every 24 months.
- 7) Inspect net for wear. Tears indicate net is getting weak and needs to be replaced. Remove only 4 or so sections of the net around the bed to give you access for cleaning.
- 8) Drain the machine (25 gallon or 96 liters) using a shop vacuum (recommended) or a garden hose. Place the hose in the lowest part of the tank (sump). If using a garden hose, attach it to the spigot located underneath the center of the tank. The hose must continuously be routed downhill for proper draining.
- 9) Locate the Shaft Seal Cover (pg 44 Photo #5A). Remove the 2 cover screws with a #1 Phillips screwdriver then slide the cover away. Check for debris inside the box and if found remove it, replace the cover and screws (no sealant is necessary).
- 10) Clean the tank using non-abrasive cleanser (Soft Scrub brand cleanser only) and a scrub pad. Do not scrape with tools that may scratch or gouge the plastic tank. **Rinse thoroughly while scrubbing. Failure to thoroughly rinse may leave soap residue which results in pressure fluctuation (pump cavitations.)** Keep the drain spigot open or the shop vacuum running while rinsing. Tap water may be used for cleaning only. DISTILLED WATER must be used for operation.
- 11) Make sure Navitrac™ traveling jet system wheels are clean and spin freely. Tighten if necessary with 1/8" Allen wrench and 3/8" open or box wrench.
- 12) Clean the brass heater tube, located in the sump area, with soap less Brillo pads or scraper. Support the tube with your hand while cleaning. **DO NO APPLY EXTRA FORCE.**
- 13) Clean the surface around the small 3/16" hole (Water Level pg45 photo D) near the heater tube. Do not put anything into the 3/16" hole, a scrub pad can be used to clean the hole.
- 14) **THOROUGHLY RINSE ALL AREAS INSIDE THE TANK AGAIN.**
- 15) Drain the pump by loosen large locking nut, place a bucket or pan under pump for draining
- 16) Check the manifold hose for wear. (Pg 44, Photo #6).
- 17) Check all hose clamps inside the tank (Pg 44, Photo #6) and outside underneath the tank to be sure they are tight.
- 18) Check the condition of the drive cable. It is a two piece cable consisting of a black cable that spirals around and is bonded to a core cable. The black cable should spiral consistently the full cable length. It should not be bunched up or separated from the core cable.
  - a) To adjust spring tension: Measure the spring as shown in photo below on left. At room temperature (75 degrees), the spring should measure 1-3/8" end to end not including end loops. If the bed has been running (95 degrees), the spring should measure 1-1/2".




- 19) Check all fasteners by hand, tighten if loose.
- 20) Remove the electrical box cover and check for loose wire connections and/or discolored wires then put the cover back on and tighten the four screws.
- 21) Add Defoamacide per instructions on bottle. **USE ONLY JTL Defoamacide**, DO NOT USE store bought chemicals, they may cause the properties of the plastic components to change.
- 22) Pour 5 gallons of Distilled water into the tank. Do not pour the water directly into the sump. Check for leaks. If no leaks, reconnect the power to the bed.

**DO NOT PUSH THE START BUTTON UNTIL THE BARRIER, BARRIER RING, AND PADDED RAIL ARE IN PLACE**

- 23) The display on the Hand Held Control should display "WARNING: ADD WATER". If it does, add more water until the sump area is filled. The unit should begin to initialize and numbers should scroll on the display. **If the bed does not begin Initializing at this time, unplug the unit and call Technical Support.** Add the balance of distilled water required, 25 gallons (96 liters).
- 24) Install the support net per the instructions on pg 51 (Replace every 3-5 years or as needed).
- 25) Install barrier and ring. (Replace barrier after 2 year use). Center barrier over the bed and place ring on the barrier in a circular pattern with ends at the foot end. Push one end of the ring (and barrier) into the ring groove and continue working around the bed. Do not pull or cut off any of the excess barrier. If ring doesn't fit perfectly, pull back 18 inches and compact or stretch the ring as needed while inserting it.
- 26) Install the barrier retaining bars. Set the retaining bars in place with the threaded bolts through the holes. If the barrier covers any of the holes, simply fold it inward. **Do not trim the barrier near the holes.**
- 27) Install the side panels in reverse order as they were taken off in step 2.
- 28) **To ensure optimum performance, add 2 teaspoons Defoamacide with two gallons of distilled water EVERY three months after cleaning (three gallons if using 30+ massages per day).**

## HydroMassage® Technical Reference and Diagnostics

<b>BED DIAGNOSTICS Touchscreen Models</b>			
Problem	Solution 1	Solution 2	Solution 3
<p><b>Bed will not start, Communications Status window open on Screen</b></p> 	<p>First check the USB connection on back of Touchscreen. If that does not resolve the problem, then with the bed 220 volt power <b>unplugged</b>, locate and press and release the power button on the front of the PC. The PC will shut down. Once the PC has shut down, press and release the power button once more to power it back up. After the Touch Screen Software has fully loaded, and the Communication Status window appears again, reconnect the 220 Volt power to the bed back in. The communications status window should close and the initialization process box will appear.</p>	<p>If the Communication Status window does not close, check 30amp breaker in main electrical panel of the facility. If this does not resolve the issue, check the breaker reset buttons on side of control box. Button will be popped out if breaker is tripped. (See Pg 47 N).</p>	<p>If the main breaker in the panel and the 30amp reset buttons are both ok, remove the cover panel on the control box. With a volt meter, verify that you have 208-240 volts across the reset breaker terminals. If the power is between 208-240 volts, verify that the red power LED on the mail circuit board on.</p>
<p><b>Error Dialog box on screen “Warning: Water Temp Cold”</b> After adding 25 gallons of distilled water during initial installation or annual maintenance, room temperature water will give this error</p>	<p>Run bed for 15 minute cycle, setting massage area at 5 to 15</p>	<p>If bed has been unplugged for extended period of time and water is at room temperature, perform solution 1</p>	<p>If error appears every morning, check for 220 power on terminals 2 and 3 on mainboard wire block inside control box. If there is no power check fuses. If there is power, order replacement heater.</p>
<p><b>Error Dialog box on screen “Warning: Water Temp High”</b></p>	<p>Check to see if chiller/radiator fans are coming on. Verify that the 2 water lines to chiller are not kinked, Verify air conditioning duct is installed if you have a radiator (See External Cooler Vent)</p>	<p>Check chiller/radiator fuses (See Pg 47, Item D ) Check for 220 power across 10 &amp; 12</p>	<p>Fins dirty. Use vacuum and brush to remove lint, carpet, etc. from chiller or radiator fins. Make sure there is 2 feet clearance at each end of the chiller</p>
<p><b>Traveling Jet System not moving or does not travel full length of bed</b></p>	<p>Reinitialize; check to see if shaft connection is turning (pg 44 Photo #4 C)</p>	<p>If shaft is not turning, verify that the set screws in the coupling are securely tightened on the flat side of the</p>	<p>If shaft is turning, open bed and check that drive cable (Pg 44 Photo #5 B, C, and D) for slack or fraying and that it is on</p>



		motor shaft (Pg 44 Photo #4 B & C Also refer to Pg 50	the drive pulley properly. Adjust as necessary.
<b>Error dialog box on screen “Error No Head” or “Error No Foot”</b>	Reinitialize; check to see if shaft connection is turning (pg 44 Photo #4 C)	If shaft is not turning, verify that the set screws in the coupling are securely tightened on the flat side of the motor shaft (Pg 44 Photo #4 B & C	If shaft is turning, open bed and check the drive cable (Pg 44 Photo #5 B, C, D) for slack or fraying and that it is on the drive pulley properly. Adjust as necessary.
<b>Pump Motor Not Operating</b>	Check and contactor coil voltage (see Pg 47, Items O). Does contactor pull in when the start button is pressed?	If contactor does not pull in, push contactor in manually to test pump motor	With the start button pushed, verify that there is 220 power to the contactor coil from the #'s 4 and 6 on the circuit board wire block
<b>Pressure Fluctuating up then down while going from foot to head of bed</b>	Foam build-up or low water. Add HydroMassage Defoamicide to one quart of distilled water and pour into filler tube (pg. 48, Photo #3A)	If bed has not been serviced in 12 months or more, perform the cleaning and maintenance in section 12	
<b>Error dialog box on screen “Error Halting P_Drive Current”</b>	Drive motor pulling to much current, Reinitialize; Check to make sure water temp is not cold	If error persists, call HydroMassage Tech Support Dept	Drive motor is failing, order replacement

Important Note: Run the unit through at least one complete 15-minute session each day to ensure that bed runs to its maximum efficiency

## HydroMassage® Illustrations & Components


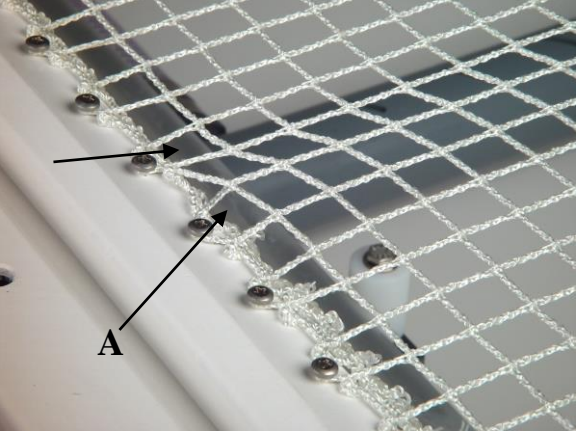
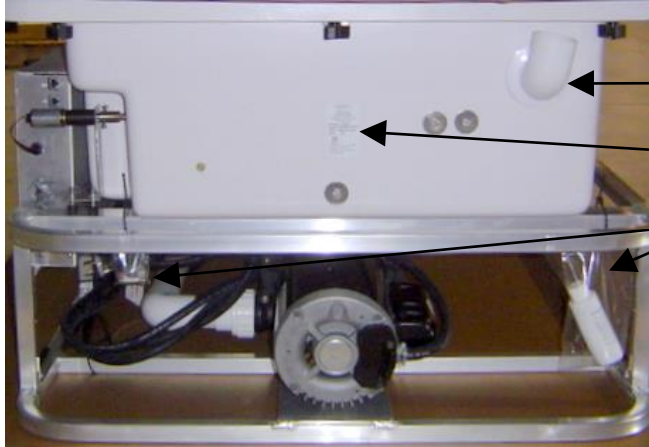
PHOTO	COMPONENTS	MODEL/ Series
	<p><b>PHOTO #1</b></p> <ul style="list-style-type: none"> <li>A. Black Knobs</li> <li>B. Electrical Control Box</li> <li>C. Drive Motor</li> </ul>	<p><b>100, 300, 320,340, 350, 500 &amp;700</b></p>
	<p><b><u>PHOTO #2 SUPPORT NET</u></b></p> <ul style="list-style-type: none"> <li>A. Head &amp; Foot 31 Squares across</li> </ul>	<p><b>ALL</b></p>
	<p><b><u>PHOTO #3</u></b></p> <ul style="list-style-type: none"> <li>A. Breather Elbow/Filler Tube</li> <li>B. Serial Number Label</li> <li>C. Complimentary Defoamers/ Spare Fuses</li> </ul>	<p><b>ALL</b></p>

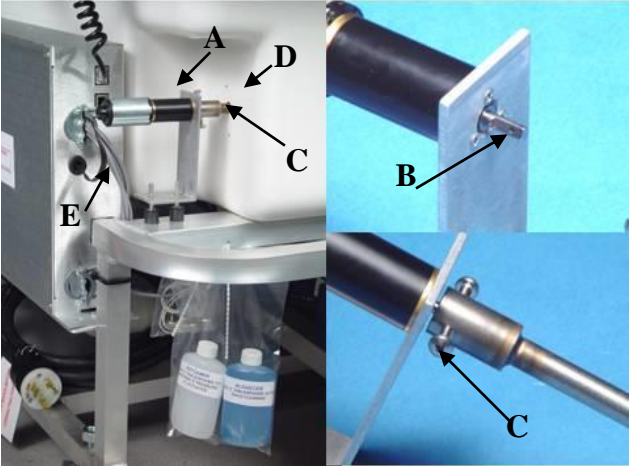
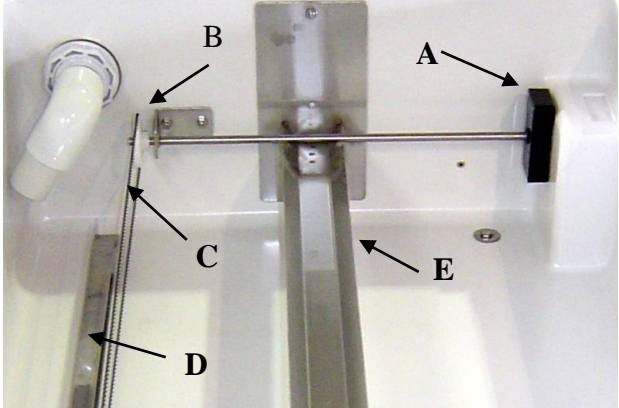
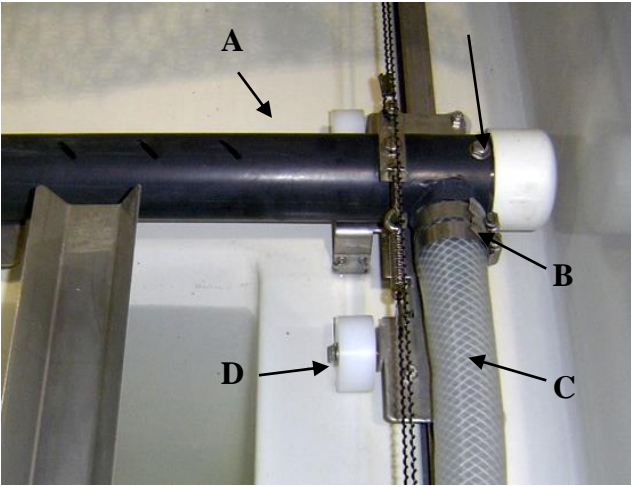
PHOTO	COMPONENTS	MODEL / SERIES
	<p><b><u>PHOTO #4</u></b></p> <ul style="list-style-type: none"> <li>A. Drive Motor</li> <li>B. Motor Shaft w/ Flat Spot</li> <li>C. Lock Screw</li> <li>D. Drive Shaft</li> <li>E. Wire Connection</li> </ul>	<p>ALL</p>
	<p><b><u>PHOTO #5</u></b></p> <ul style="list-style-type: none"> <li>A. Seal Shaft Cover</li> <li>B. Drive Cable Gear</li> <li>C. Drive Cable</li> <li>D. Manifold Track</li> <li>E. Diverter</li> </ul>	<p>ALL (Series 100 does not have a diverter)</p>
	<p><b><u>PHOTO #6</u></b></p> <ul style="list-style-type: none"> <li>A. Manifold Assembly</li> <li>B. Hose Clamps</li> <li>C. Manifold Hose</li> <li>D, Roller</li> </ul>	<p>ALL</p>

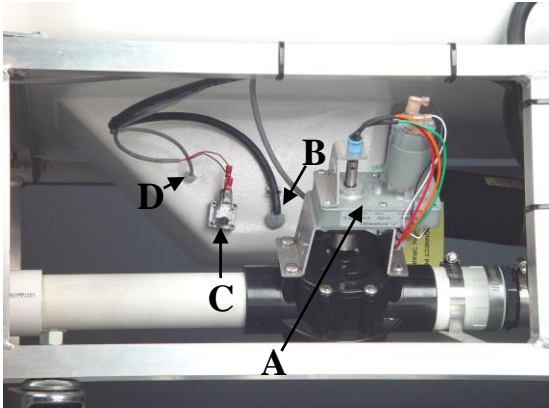
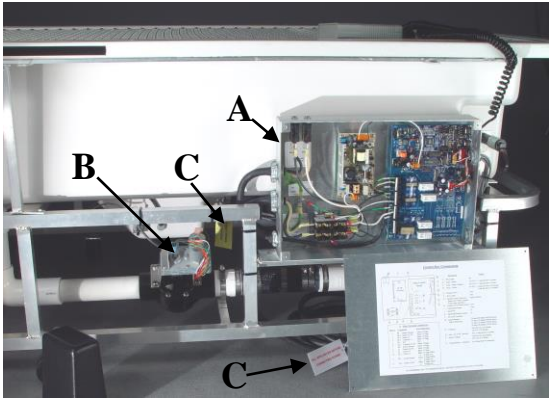
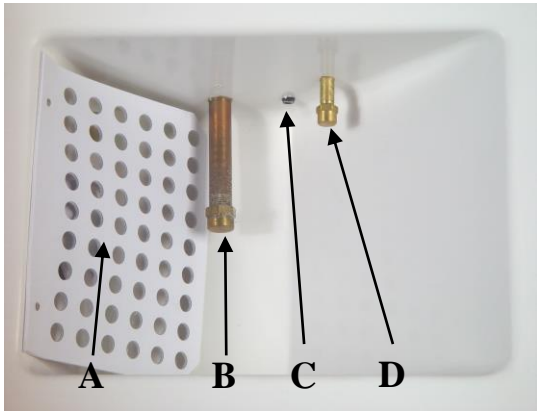


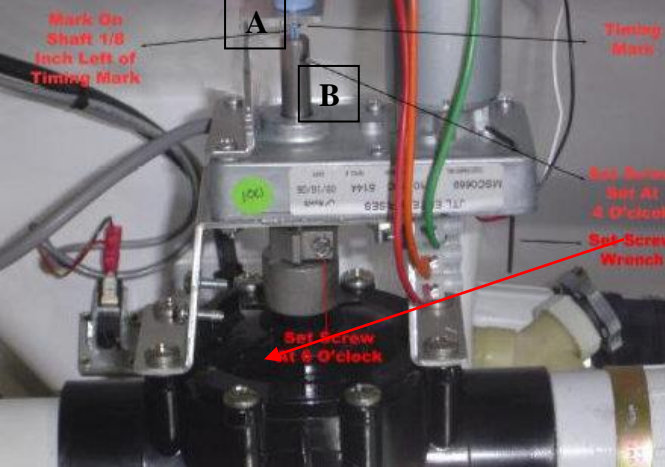
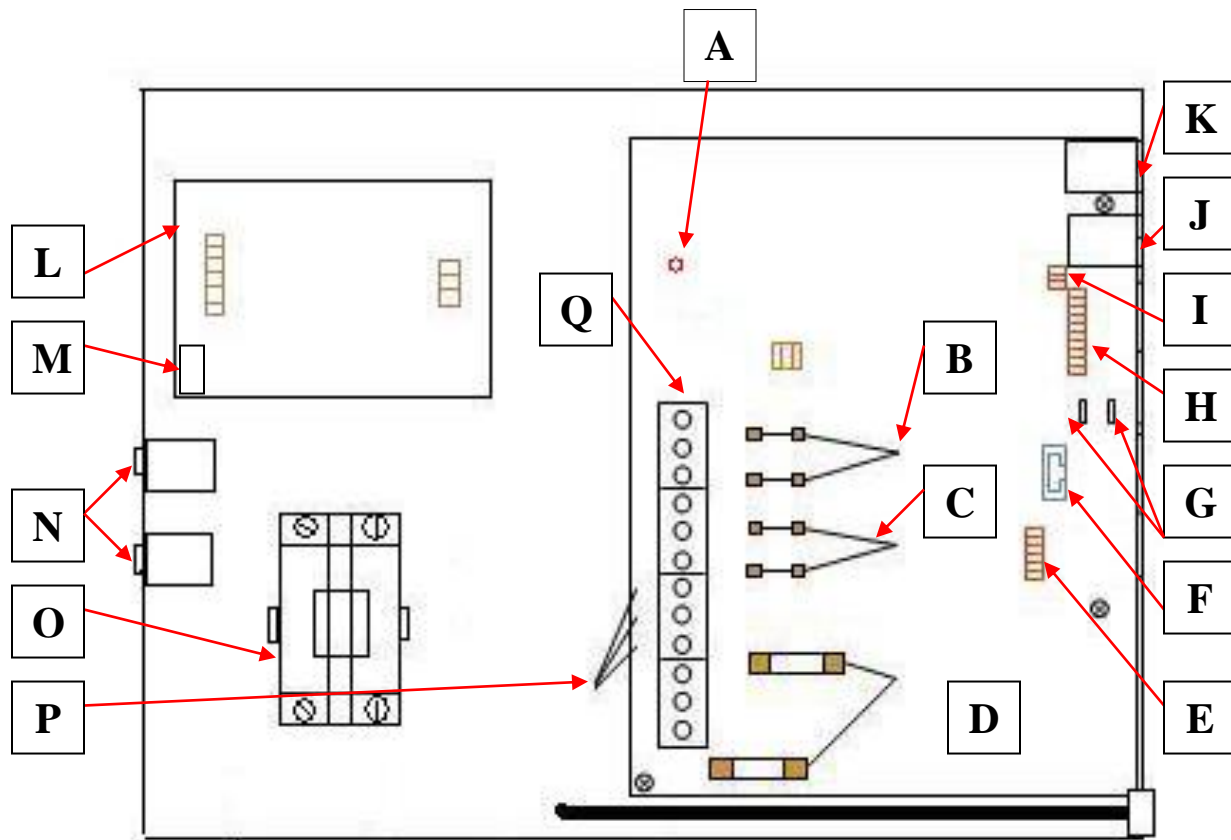
PHOTO	COMPONENTS	MODEL / SERIES
	<p><b><u>PHOTO #7</u></b></p> <ul style="list-style-type: none"> <li>A. Pressure Actuator Assembly</li> <li>B. Heater Cable</li> <li>C. Water Level Switch</li> <li>D. Temperature Sensor Cable</li> </ul>	<p>ALL</p>
	<p><b><u>PHOTO #8</u></b></p> <ul style="list-style-type: none"> <li>A. Electrical Control Box</li> <li>B. Pressure Actuator Assembly</li> <li>C. Safety Tags</li> </ul>	<p>ALL</p>
	<p><b><u>PHOTO #9</u></b></p> <ul style="list-style-type: none"> <li>A. Anti-Cavitation Plate</li> <li>B. Heater Tube</li> <li>C. 3/16" Hole—Water Level</li> <li>D. Temperature Sensor</li> </ul>	<p>ALL</p>

PHOTO	COMPONENTS	MODEL Series
	<p><b><u>PHOTO #11</u></b></p> <p>A. Reed Switch (Foot End)</p>	<p>ALL</p>
	<p><b><u>PHOTO #12</u></b></p> <p>A. Radiator Fans</p>	<p>100 300 340</p>
	<p><b><u>PHOTO #13</u></b></p> <p>Pressure Actuator Assembly</p> <p>A. Potentiometer</p> <p>B. Set Screw &amp; Wrench</p>	<p>ALL</p>





A	Power light	D9	
B	Fuses – Heater	F10 & F11 - 3 amp fast blow 5x20mm	
C	Fuses - Pump Contactor	F12 & F13 - 3 amp fast blow 5x20mm	
D	Fuses - Cooler - Chiller or Fan	F4 & F9 – 10 amp slow blow for chiller model beds 3 amp for radiator model bed	
E	Pressure Valve	CN4	
F	Drive motor	CN3	
G	External Timer Connection, Smart Card, Dollar Acceptor, Token types, and others	GND & INPUT	
H	Liquid Level & Reed switches	CN5	
I	Temperature Sensor	CN6	
J	Serial Port	J2	
K	Hand Held Remote / Touch screen Computer Communication Connection	J1	
L	AC to DC Converter	208-230VAC input/24VDC output	
M	Fuse – AC to DC Converter	FS1 - 4 amp fast blow 5x20mm	
N	Circuit Breakers	30 amp (300 Models 240V/60 Hertz)	
O	Contactor	208-240 VAC (300 Models)	
P	Source Voltage	208-240 VAC (150, 300's, 500 & 700 Models), 120 VAC (100 Model) 7,8,9 (See Diagram on next page)	
Q	Terminal Blocks - 12 positions	See Wiring Chart on next page for connections	



## U.S. Wiring Connections Description for Position “Q” above

Wire #	Connection	60 Hertz	Type
1	PE - Heater Ground	Green	18 Gauge
2	HL2 - Heater L2 (N)	White	18 Gauge
3	HL1 - Heater L1	Black	18 Gauge
4	PL1 – Contactor L1	Black	18 Gauge
5	PE - N/A	N/A	
6	PL2 - Contactor L2 (N)	White	18 Gauge
7	PE – Power in Ground	Green	10 Gauge
8	Power in L2 – L2 (N)	White	10 Gauge
9	L1 - Power in L1	Black	10 Gauge
10	CL1 -Cooler L1	Black	16 Gauge Chiller or 18 Gauge Fan
11	PE - Cooler Ground	Green	16 Gauge Chiller or 18 Gauge Fan
12	CL2 - Cooler L2 (N)	White	16 Gauge Chiller or 18 Gauge Fan



# HydroMassage® Drive Motor & Shaft Realignment

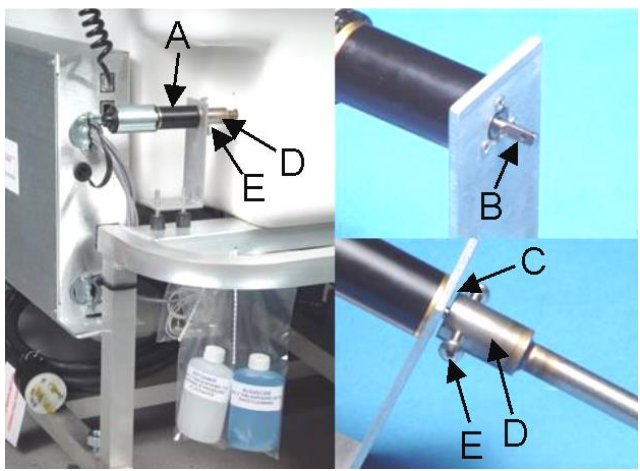
TOOLS, Standard Screwdriver, Phillips Screwdriver, and a drop of Loc-Tite™

## SEPARATE DRIVE MOTOR ASSEMBLY FROM DRIVE SHAFT (see reference photo)

1. Fold back the cover sheet and comfort from foot end of bed.
2. Remove the front and foot end bed panels
  - a. Remove the short foot end panel secured by screws.
  - b. Remove the front long side panel.
3. Remove one drive shaft lock screw (E). Use the Start & Stop buttons to rotate the drive shaft. If needed to access the screw. Rotate the shaft again to access to the other screw and remove it also.
4. Separate drive motor assembly (A) from drive shaft (D) by pulling on the motor assembly metal bracket. You may need to begin the separation by inserting a flat blade screwdriver in the space (C) between the motor assembly and the drive shaft and prying them apart.
5. Replace both lock screws into the drive shaft 2-3 turns only.

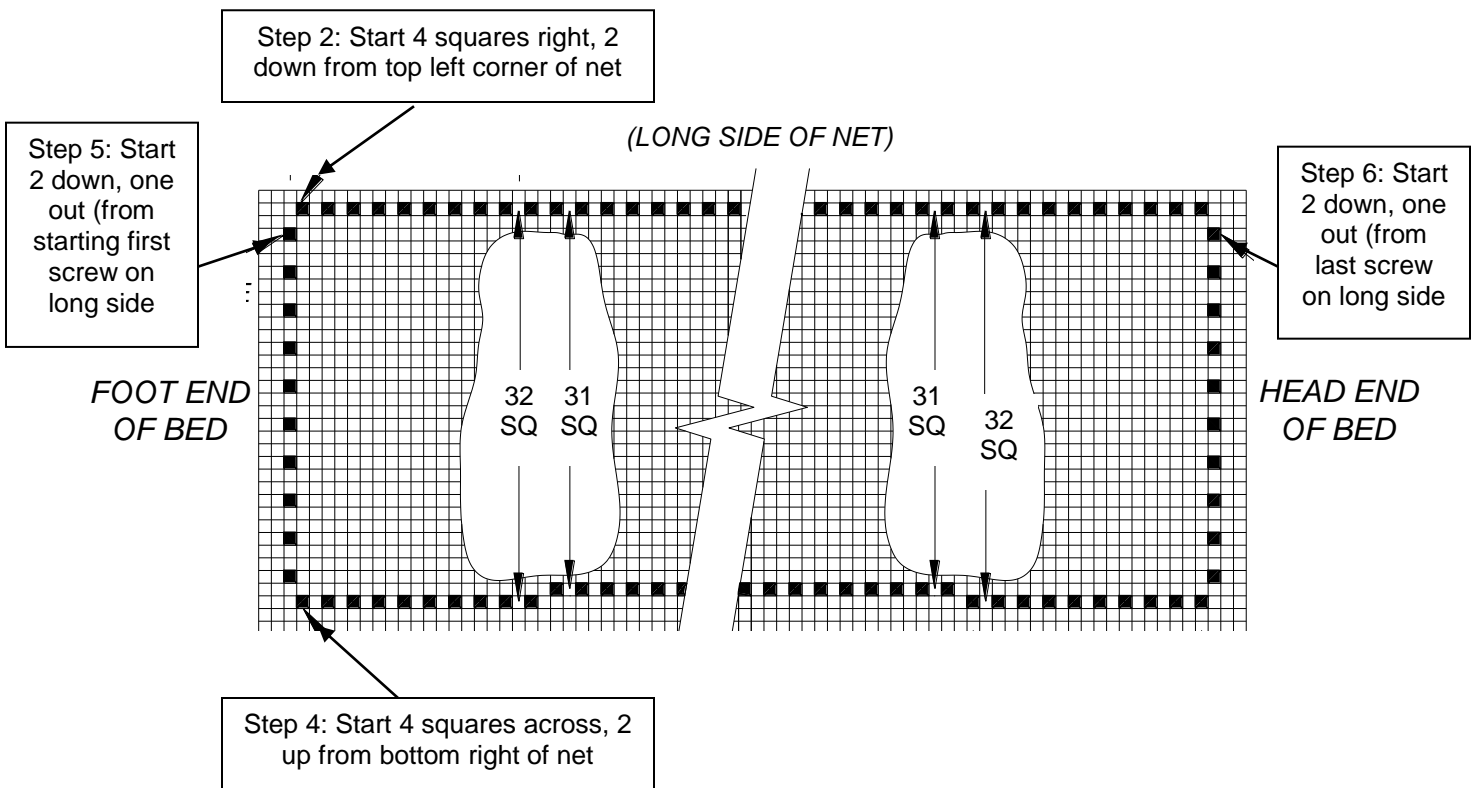
## RE-ALIGN DRIVE MOTOR TO DRIVE SHAFT

1. Identify the silver drive motor shaft (B) protruding from the metal bracket and locate the flat spot.
2. Use the Start & Stop buttons to rotate the motor shaft until the flat spot faces you.
3. Rotate drive shaft (D) by hand to align one lock (E) screw with the motor shaft flat spot (B).
4. Insert the motor shaft into the drive shaft so the flat spot is no longer visible and there is a space (C) about the thickness of a credit card or no more than a 1/16 inch between the drive shaft and the drive motor bracket, and then tighten lock screw onto motor shaft flat spot.
5. Again rotate the motor shaft to access and tighten the second screw.
6. Stop the bed and loosen 1 screw 2 turns. Apply a drop of Loctite (included in kit) to the threads where the screw enters the shaft then tighten screw securely. Once again, Start / Stop the bed to access the other screw. Loosen it two turns and apply a drop of Loctite to the threads then tighten securely.
7. Install the side & end panels, the cover sheet, and the comfort pad.
8. Reinitialize HydroMassage (see initial start-up on page 18).

PHOTO	COMPONENTS	MODELS
	<p><b>PHOTO 1</b></p> <p><b>A. Drive Motor</b></p> <p><b>B. Motor Shaft w/ Flat Spot</b></p> <p><b>C. 1/16 Inch Space</b></p> <p><b>D. Drive Shaft</b></p> <p><b>E. Lock Screws</b></p>	<p><b>ALL</b></p>

# HydroMassage® Net Installation

1. **Wet the net for easier installation**
2. **BEGIN BY ATTACHING ONE LONG SIDE OF THE NET FIRST:** Find the top-left corner of the net, and count 4 squares inward from the short side, and 2 squares down from the long side. Hook this square over the 1<sup>st</sup> screw on the long side of the bed.
3. Continue down the long side, attaching every other net square to a screw, and folding the excess net underneath (it is helpful to put 3-4 net squares over a screw on the opposite side to hold the net in place while working).
4. **SWITCH TO OTHER LONG SIDE:** From starting screw on first long side (with net already attached) count over 32 squares across the width of the bed, and attach that square of the net to the first screw on the second long side. Continue down the second long side for the next 9 screws (total of the first 10); then adjust 1 square inward so there are only 31 squares in the middle section of the bed. This will make the net tighter in the middle. For the last 10 screws on this side, again go back to 32 squares across the width of the bed.
  - a. Replacement nets may vary slightly in size; therefore you may only be able to pull the net 32 squares across all the way down. For ease of getting on/off the bed, we suggest you pull in to a minimum of 32 squares across in the middle of the machine.
5. **ATTACH SHORT SIDES LAST:** Starting from the 1<sup>st</sup> screw position on the long side, count two squares towards the center, and one square outward towards the short side. This square of the net goes over the first screw on the short side.
6. Going down the short side of the bed, attach every third square of the net (skip two in the middle). Repeat process on the other short side.



## HydroMassage® Parts & Accessories List

Part #	Description	Replace
RSB-0761	DEFOAMACIDE 8 oz. BOTTLE	Add 2 TSP every 3 months
RSB-0776	BARRIER	1 year
RSB-0806	BARRIER RETAINING RING	4 years
FIN-0074	CHILLER ASSEMBLY COMPLETE	
ELC-0830	CIRCUIT BOARD	
SUB-1022	COMFORT PAD	As Needed
RSB-0807	DRIVE CABLE ASSEMBLY	3 years
MSC-0673	DRIVE GEAR	5 years
RSB-0757	DRIVE MOTOR ON BRACKET	3 years
SUB – 0825	POTENTIOMETER ON BRACKET FOR VALVE ASSY	
ELC-0497	FUSE, 15A/250V SLOW BLOW CERAMIC	
ELC-0499	FUSE, 3A/250V FAST BLOW GLASS	
ELC-0501	FUSE, 5A/250V SLOW BLOW GLASS	
ELC-0816	HEATER, 350W 240V 200 series	
HOS-0637	HOSE, BRAIDED 1-1/2" CLEAR MFLD 57" 200 Series	
SUB-0826	VALVE DRIVE MOTOR ASSY– 10V DC	
RPL-0771	PRESSURE VALVE DIVERTER WITH SEALS	
SUB-0822	COVER SHEET	As desired
MSC-0586	KNOB BLACK FOR RETAINING BAR	
ELC-0509	WATER LEVEL SENSOR	
ELC-0781	TEMPERATURE SENSOR	
MSC-0670	NET	3 years
MTL-0676	RETAINING BAR, END	
MTL-0677	RETAINING BAR, SIDE	
HWR-0839	WHITE PANEL KNOB	
SUB-1015	PILLOW WITH COVER, SCULPTURED	As desired
SUB-1010	PILLOW COVER	As desired
MSC-0716	PUMP SEALS 200 Series	

ELC-0519 REED SWITCH  
SUB-0892 PUMP/MOTOR 200 Series

Shipping and Handling Will Be Added To All Orders. Our continuing program of product improvement makes specifications, equipment, model availability, options, color and prices subject to change without notice.

Returned opened unused parts will carry 20% restocking charge, plus a fee for any damaged parts.

Please refer to our standard Terms, Conditions & Warranty.

Parts may be viewed on-line: <http://www.hydromassage.com/order-parts.htm>



## HydroMassage® External Timer Connection

### WARNING!

**“If electrical wiring & software configuration is done improperly,  
PERMANENT DAMAGE WILL OCCUR”**

### WARRANTY & LIABILITY DISCLAIMER

The installation of any device not manufactured or provided directly by JTL Enterprises, Inc. may void all warranties. All service must be performed by a JTL authorized service technician or by an insured/licensed electrician. Please refer to JTL's Terms, Conditions & Warranty policy for additional information, or call our Technical Support department at 727-536-5566.

The following procedure is intended to provide external control over the bed's time function. Compatible external timers are:

- Dollar Acceptor
- Token types
- Card Reader
- Other

### WIRING

- 1) **Disconnect power to the Dry Hydrotherapy Bed.**
- 2) Remove the bed side panels and the electrical box cover.
- 3) Locate the bed Timer terminals labeled GND & INPUT on the circuit board (see Figure 1).
- 4) Loosen cable clamp securing existing cables at the right side of the control box nearest the terminals.
- 5) Reference the timer manufacturer wiring diagrams to locate the two signal wires (Ground & Output Signal) designed to control the Start/Stop functions of the hydrotherapy bed. Determine control type: Closed contacts or Pulse. See Software Configuration for description.
- 6) Route the External Timer cable through the cable clamp along side existing cables.
- 7) Strip the outer cable casing three inches, then strip both wires 1/4". Crimp on 1/4" female push on connectors.
- 8) Connect External Timer wire connector identified as Ground to the GND terminal on the circuit board.
- 9) Connect the External Timer Output Signal wire connector to the INPUT terminal on the circuit board.
- 10) Carefully pull back the timer cable through the cable clamp until the stripped edge of the outer casing is even with the existing wires. Then retighten clamp. Do not over tighten.
- 11) Replace the electrical box cover & screws and replace the side panels.

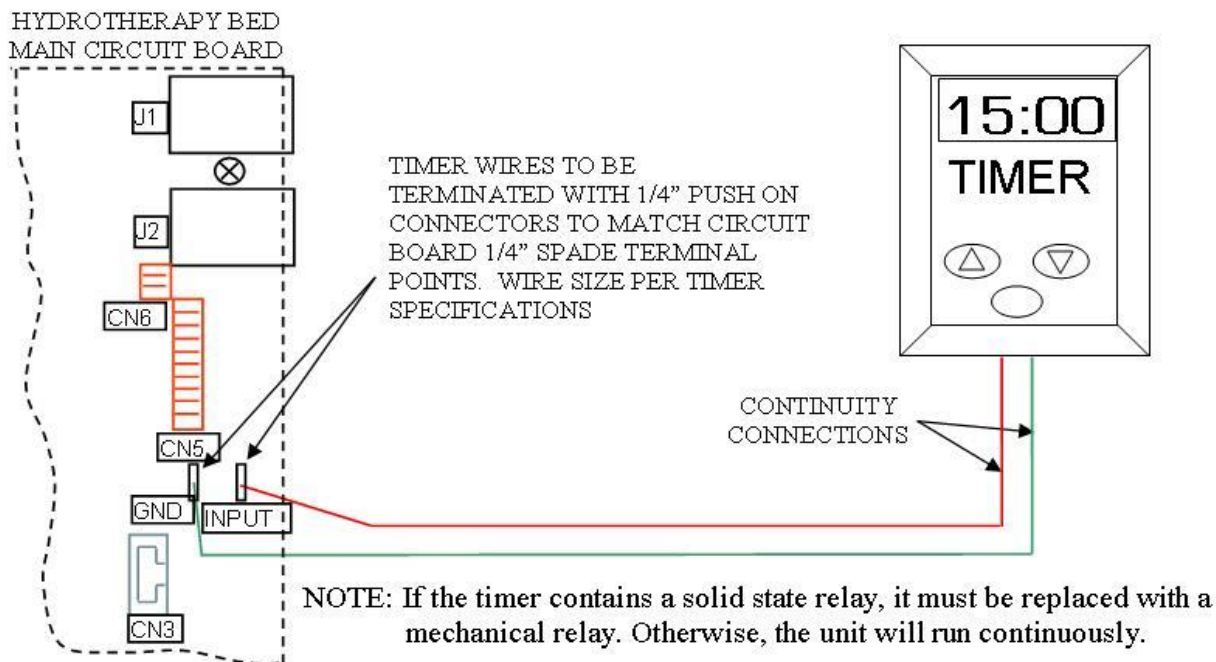
## HydroMassage® Software Configuration for Using an External Timer Control

Enter the Administrator area by holding down the Start button for 5 seconds then enter the Administrator code 120700.

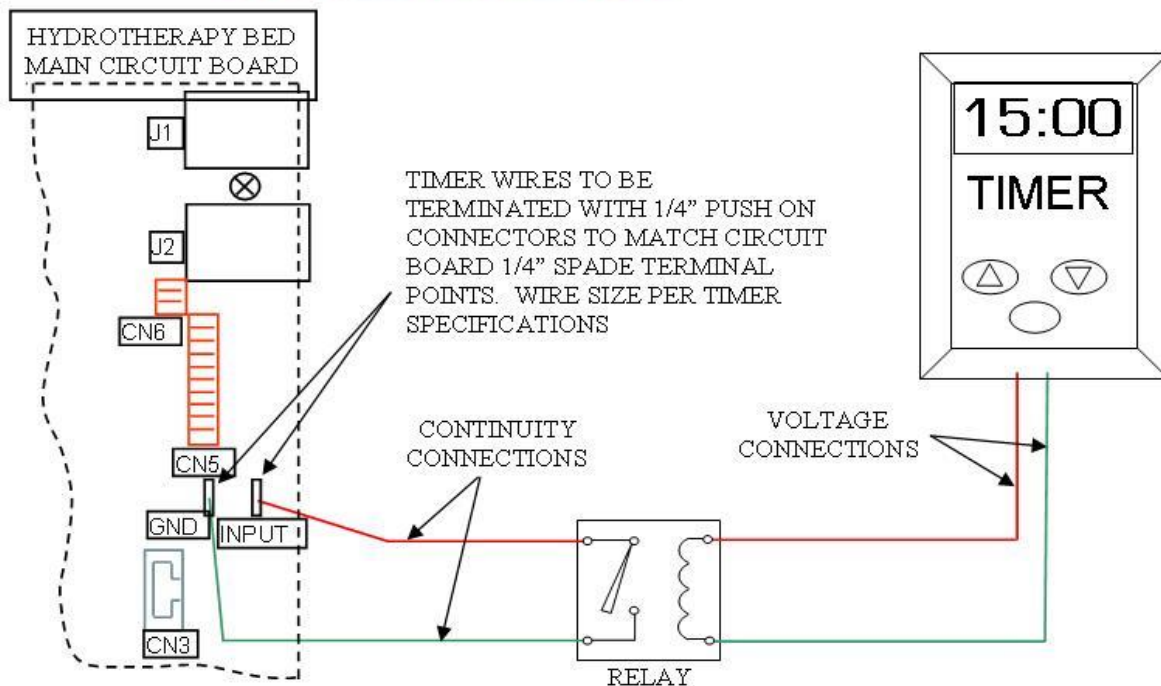
1. Select **“Operational Mode”**.
  - A. **Closed Contacts:** See figures 1 & 2. The bed runs as long as the contacts in the external timer are closed. Consult timer manufacturer to meet the **“CONTINUITY ONLY – NO SUPPLY VOLTAGE”** requirements of the **INPUT & GND** terminals located on the hydrotherapy bed main circuit board. If you are using the closed contact mode, the user will not see the time remaining on the Touchscreen clock or hand held controller.
  - B. **Pulse: “Preferred Configuration”** The actual time session remaining will appear on the hand held. See figure 1 for wiring. The bed will run for the value in minutes set in the **“Value:”** area multiplied by the pulses it receives from the external timer. The pulse signal must be 10 volts DC or less.
2. Set **“Pulse Value”** if Pulse timer was selected above. This is the amount of time in minutes each pulse is worth that the external timer sends to the bed. Set this value from 1-60 minutes.
3. Set **“Maximum Session:** to limit the maximum length of a session. Set this value from 1- 60 minutes.

# HydroMassage® External Timer Connection Diagram

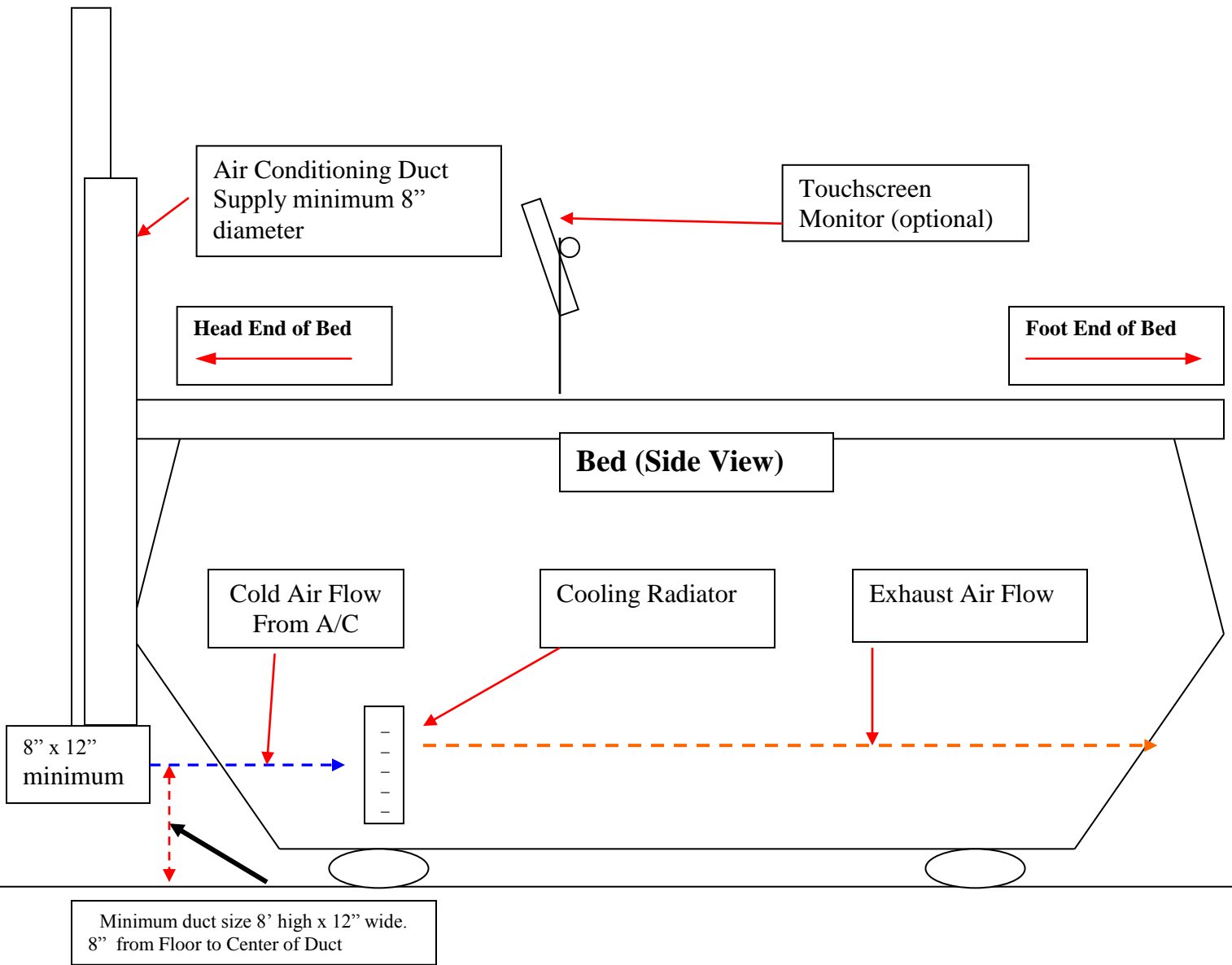
**FIGURE 1** TIMER DOES **NOT** SUPPLY VOLTAGE  
TIMER IS WIRED FOR **CONTINUITY** ONLY



**FIGURE 2** TIMER SUPPLIES VOLTAGE  
A RELAY MUST BE INSTALLED BETWEEN TIMER  
AND MASSAGE BED CIRCUIT BOARD



## HydroMassage® Internal Cooling System Cold Air Supply Duct (optional for 300 and 340 Models)

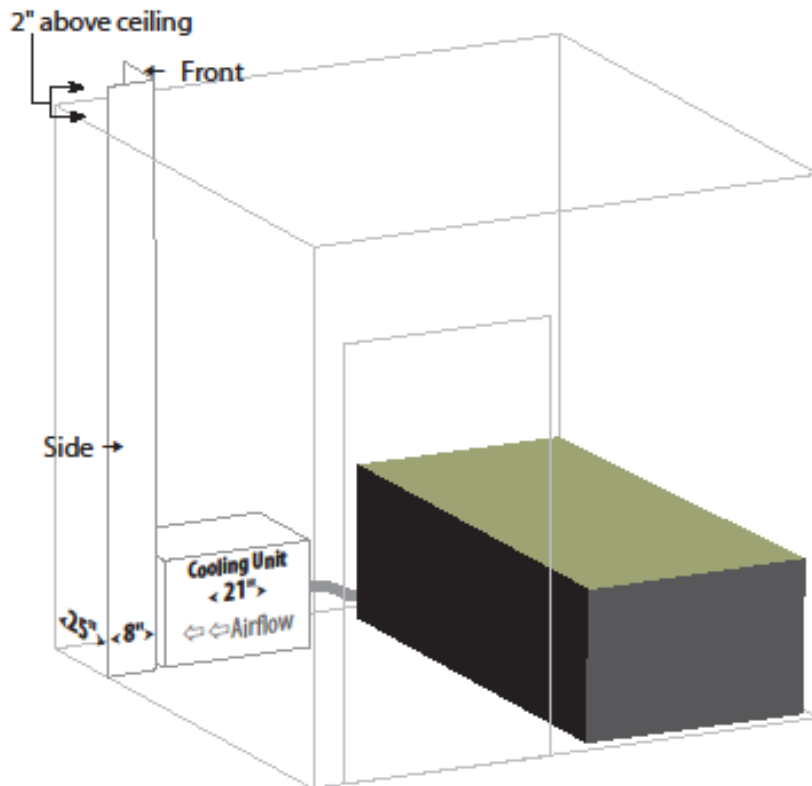


\* If your HydroMassage bed has an internal cooling system and you are installing it in a room less than 1600 sq ft, you may need to install an additional air conditioning duct at the head of the bed with a thermostat in the same room as shown in the diagram above.

# HydroMassage® Chimney / External Cooling System Heat Exhaust

(Optional for 320, 350, 500, and 700 Series)

## Cooling Unit Installation Option: External Cooler Vent

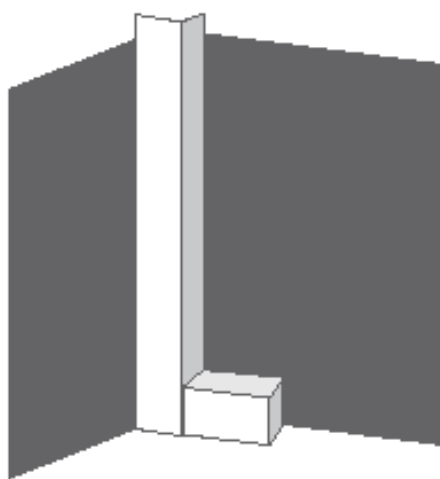


To remove the heat in the room generated from the HydroMassage, we recommend fabricating an external cooler vent for the external cooler.

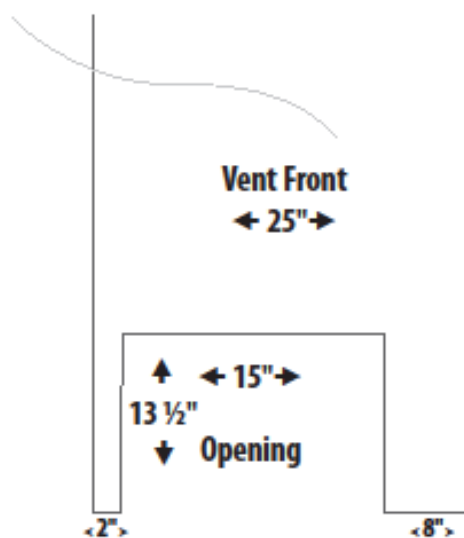
The minimum total cubic feet above the ceiling is 1500 cubic feet (Length x Width x Height).

Cost of construction: \$20-\$60 for materials plus labor

\* Check with your contractor to ensure you're using the proper materials to meet your local building code



Alternate View



Close-up of Vent Cut-out

# HydroMassage External Cooling System

Installation above HydroMassage Room

## Overview / Need for Cooling System:

When HydroMassage beds are installed in a private room without a large supply of cold air, an additional external cooling system is required in order for the beds to be operated all day long without any risk of overheating.

## System Specifications:

- Dimensions: 21" L x 19" W x 14-1/2" H
- Weight: 75 lbs
- Electrical Supplied from HydroMassage Unit (does not require an additional electrical outlet)



## Room Design Considerations:

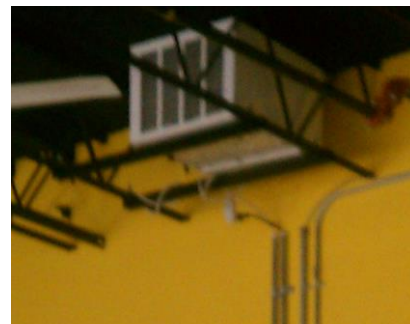


The cooling system is connected to the massage bed via one electrical cord and two small 1/4" tubes (the tubes enter the unit from the side and need 5" of clearance). This allows for installation of the cooling system in several different locations up to 20' away from the massage bed including above the room (ceiling), below the room (basement), or in an adjacent room or space.

If the cooling system will be installed directly above the room (suspended in the same manner as an air handler), two 3/4" conduits should also be installed for both the tubing and electrical cord; terminating at single gang boxes near the foot end of the bed. Make sure to include pull strings in the conduits. For liability purposes, HydroMassage technicians are not permitted to install the cooling system above the room. Please contact your general contractor to ensure this is completed properly and to local building and electrical code.

**\*IMPORTANT:** The external cooling system will vibrate very slightly while in use. If the cooling system is installed on a platform above the room, it is necessary to secure it to the platform to prevent it from moving and potentially falling (ex. adding a lip around the perimeter of the platform, using straps to secure the cooling system, etc).

Please call the HydroMassage Technical Support department at 1-800-699-1008 x 1013 with any questions concerning the external cooling system.



Cooling system above massage room. Power cord and water lines connect to bed.





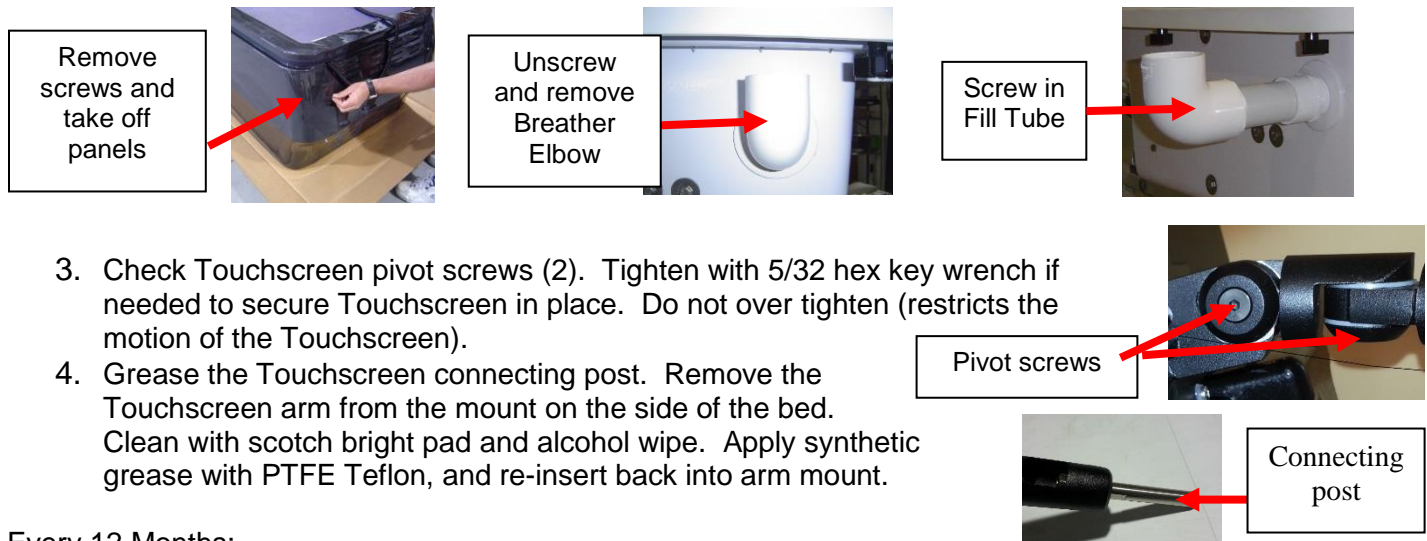
## HydroMassage Maintenance Schedule

### Weekly:

1. Reboot the HydroMassage (instructions below).
2. Clean waterproof cover sheet according to your normal cleaning procedures for all other equipment.

### Every 3 Months:

1. Add Defoamicide to ensure the water pressure stays consistent and clean. **\*\*ONLY USE HydroMassage Defoamicide.\*\***
2. The Defoamicide and Fill Tube will be attached to the frame at the foot of the bed. Unscrew Breather Elbow, screw in Fill Tube, and add Defoamicide. Replace Breather Elbow when finished.
  - a. Add 2 teaspoons with 2 gallons distilled water if LESS than 30 massages per day usage
  - b. Add 2 teaspoons with 3 gallons distilled water if MORE than 30 massages per day usage.



3. Check Touchscreen pivot screws (2). Tighten with 5/32 hex key wrench if needed to secure Touchscreen in place. Do not over tighten (restricts the motion of the Touchscreen).
4. Grease the Touchscreen connecting post. Remove the Touchscreen arm from the mount on the side of the bed. Clean with scotch bright pad and alcohol wipe. Apply synthetic grease with PTFE Teflon, and re-insert back into arm mount.

### Every 12 Months:

1. Drain and clean bed. Replace the distilled water and add 2 teaspoons of Defoamicide. Instructions included both in the manual and on-line at this link: <http://www.hydromassage.com/customer-installation.htm>
  - a. Add 25 gallons if your HydroMassage averages LESS than 30 massages / day
  - b. Add 30 gallons if your HydroMassage averages MORE than 30 massages / day
2. Replace the rubber barrier. Call 1-800-699-1008 for assistance
3. Vacuum dust from external or cooling system intake (every 4-6 months if needed).



### STEPS TO REBOOT HYDROMASSAGE

1. Unplug the HydroMassage 220V electrical cord from wall outlet
2. Shut down / turn off the Touchscreen monitor by pressing the blue power button (lower right-hand corner of the Touchscreen)
3. Reboot the Touchscreen by pressing the blue power button again, and wait for the HydroMassage software to automatically load on the Touchscreen monitor
4. Once the HydroMassage software loads on the Touchscreen, and only after you see a "Establishing Communication" box pop-up, plug the HydroMassage 220V electrical cord back into the wall outlet.
5. Wait approximately 45 seconds to finish initializing. Call Tech Support with any questions.

