

PACIFIC Recumbent Height-Adjustable Bath System 9700 Parts Breakdown and Assembly Manual



Panel 390010-1 Tubs 390011-1 or 390022-1

390748 Revision I – 1/8/2019

PENNER PATIENT CARE, INC Box 523 / 102 Grant St. Aurora, NE 68818

1-866-PENNERS

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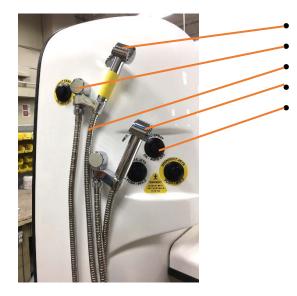
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Table of Contents

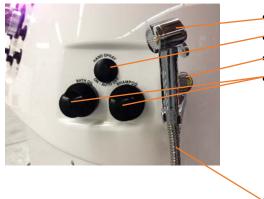
Table of Contents 2
Panel – Front Left Parts
Panel – Front Right Parts
Front Controls
Bottle Storage Parts 4
Mixing Valve Parts (Rada 320) 4
Adjustment of the Mixing Valve – Rada 3205
Mixing Valve – Rada 222 Parts 6
Temperature Adjustment of Rada 222 Mixing Valve6
Back of the Control Panel7
Air and Disinfection Parts7
Disinfecting Sprayer Parts
Hand Shower Supply Parts
Water Screens
Water Trap 8
Dispensing Pumps (Back Side)9
Solenoid Valve Locations
Electrical Kit Parts
Timer Adjustments Explanation 10
Tub Parts11
Jet Parts
Checking for the Correct Dilution of Disinfectant
Actuator Brake Replacement
Solenoid Parts Breakdown
Dema Injector Parts14

Panel – Front Left Parts



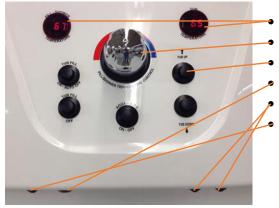
- 140106R Hand Shower W/Trigger Yellow
- 140104 Swivel Chrome Elbow 2 Shown (2 shown)
- 350192CH Shower Hose Chrome 96" (2 shown)
- 140106CHT Hand Shower W/ Trigger Chromed
- 350495 Raised Push Button (4 shown)

Panel – Front Right Parts



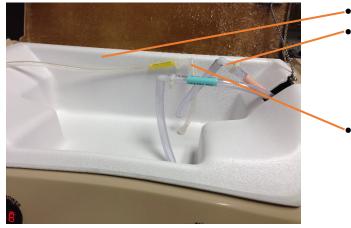
- 140106CHT Hand Shower W/ Trigger Chromed
- 350495 Raised Push Button
- 140104 Swivel Chrome Elbow
- 350200 Dispenser Pump Complete Components:
 - 350201 "O" Ring for Dispenser Pump
 - 350204 Spring- Dispenser Pump Replacement
 - 350210 Nut, pump mount (white)
 - 350215 Cap, Dispenser Pump
 - 350205 Spacer Pump Mount
- 350192CH Shower Hose Chrome 96"

Front Controls



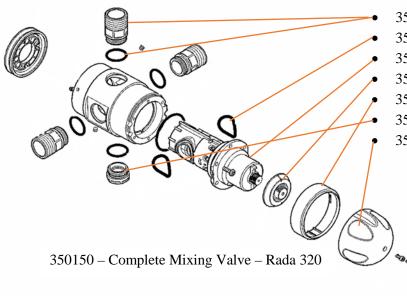
- 350535M-SER Thermometer (F° or C°)
 - 350151 Rada Valve Cartridge (See page 4 for components)
- 350495 Raised Push Button (5 shown here)
- 390403 Spigot 9700
- 390220 Dispenser Spout Oil and Shampoo
- 390220 Modified Dispenser Outlet (Air outlet)

Bottle Storage Parts



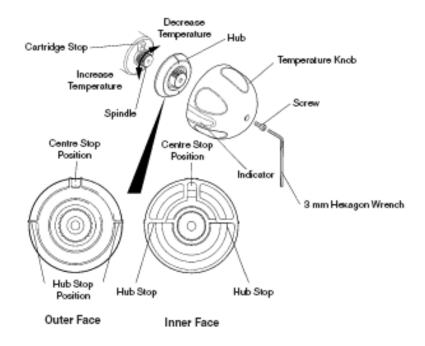
390390 - Bottle tray Shampoo & Bath oil lines Kit 350198 Includes: 350276 - 3/8" Tubing Clear 201900 – Snap Clamp Size 8 140299 - Plastic Elbow Disinfect lines Kit 350196 Includes: 140261 - ¼" Clear Hose 106351 - Snap Clamp Size 6 140277 - ¼" Plastic Elbow 140489 - Foot Strainer

Mixing Valve Parts (Rada 320)



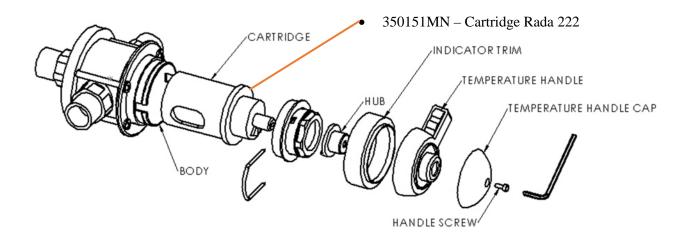
- 350157 Inlet/Outlet Adapter, 3/4 Female
- 350158 Seal Pack (includes all O-rings)
- 350151 Cartridge with O-rings Rada 320
- 350154 Hub
- 350152 Temperature indicating ring
- 350163 Cap (with O-ring)
- 350162 Knob Pack (Knob, screw, and wrench 350159 – Screw Pack (includes all screws)

Adjustment of the Mixing Valve - Rada 320

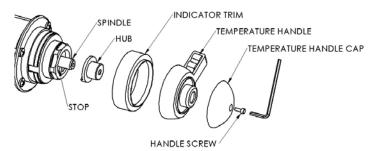


- 1. Remove the temperature knob screw using a 3 mm hexagonal wrench. Remove the temperature knob.
- 2. 2. Pull off the black polymer hub assembly which may inadvertently remain attached to the inside of the temperature control handle. This is a "push fit" and can be "levered" out using a thin blade screwdriver or pliers.
- 3. Rotate the spindle until required maximum blend temperature is obtained at outlet point (clockwise = decrease temperature, counterclockwise = increase temperature). When resistance is felt do not use force to turn any further, as this can damage the internal parts.
- 4. Once the desired maximum blend temperature is achieved, re-fit the hub without disturbing the spindle: Position the hub so that the hub stop comes up against the cartridge stop preventing any further rotation in a counterclockwise direction. Check that blend temperature has not altered.
- 5. Refit the temperature knob. Make sure that the indicator points to 9 o'clock.

Mixing Valve – Rada 222 Parts



Temperature Adjustment of Rada 222 Mixing Valve



Maximum Temperature Setting

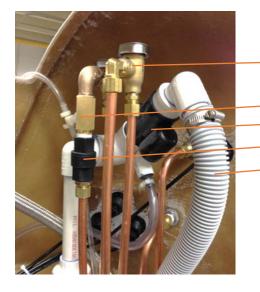
- 1. Check that an adequate supply of hot water is available at the hot inlet of the mixing valve.
- 2. Temperatures should always be recorded using a thermometer with proven accuracy.
- 3. Remove the handle screw, temperature handle cap, temperature handle, and indicator trim using a 3 mm hexagonal key.
- 4. Pull off the hub.
- 5. Using the temperature hub, rotate the spindle until the required maximum blend temperature is obtained at the discharge point (rotate clockwise to decrease temperature).
- 6. If resistance is felt do not use force to turn any further, as this can damage the internal parts.
- 7. Once the desired maximum blend temperature has been achieved, refit the hub so that the lug is against the side of the stop on the cartridge face, thus preventing counter clockwise rotation past the maximum temperature stop.
- 8. Check that blend temperature has not altered.
- 9. Refit the indicator trim, handle, and cap. Then secure with the handle screw using a 3 mm hexagonal key.

Back of the Control Panel



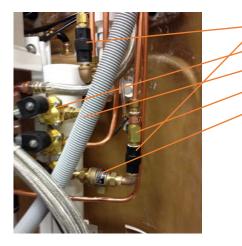
- 350535M Thermometer F°/C°
- 390100 Hose 72" Braided
- 350185 Hose 36" Braided

Air and Disinfection Parts



- 144104 Vacuum Breaker
 - 144110 Service Kit Vacuum Breaker 3/8"
- 1404804 Dema Injector (Jets)
- 390406 Check Valve Assembly Complete
- 140474 Check Valve Plastic Black Check Valve
- 390409 Vacuum Hose 1 ¹/₄" ID

Disinfecting Sprayer Parts

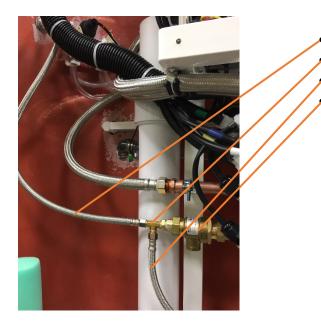


- 140474 Check Valve Plastic
- 140124 Solenoid Valve (See Solenoid Parts Breakdown)
- 390409 Hose Vac 1 ¼" ID
- 390302 Dema Injector (for disinfection sprayer)
- 390406 Check Valve Assembly Complete

Solenoid Valve Identification Colors

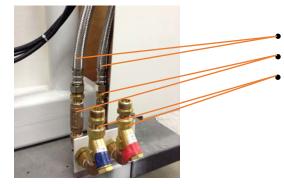
Tub Fill	Rinse Jets	Disinfect Sprayer
Hand Shower	Disinfect Jets	

Hand Shower Supply Parts



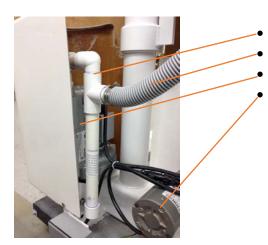
- 360496 HOSE 30"x 3/8"
- 360441 Tee 3/8 X 3/8 Male Run
- 360491 HOSE 48" x 3/8"
- 390406 Check Valve Assembly Complete

Water Screens



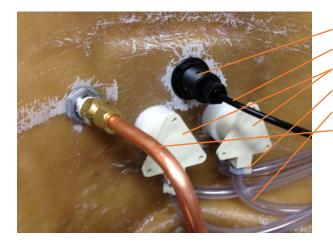
390100 - Hose 72" Braided
350320 - Check Valve ½ (brass)
350315 - Screen ½" 40 mesh In-line
350316 - Replacement Screen Only

Water Trap



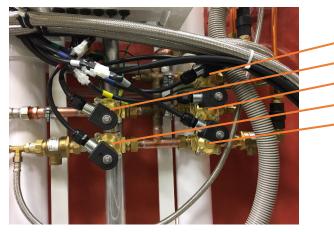
- 3901761 Water trap assembly
- 390409 Hose Vac 1 ¼" ID
- 350602 Blower
- (Actuator Motor)
 - 391122SER Replacement Actuator 3911221 - Replacement Brake Kit

Dispensing Pumps (Back Side)



- 350495 Air Transmitter
- 040955 Tube 1/8" ID
- 350200 Dispenser Pump (Includes Mounting parts)
- 201900 Snap Clamp Size 8 (2ea on each pump)
- 350267 Clear Hose 3/8" ID
- Supply for RH Hand Shower

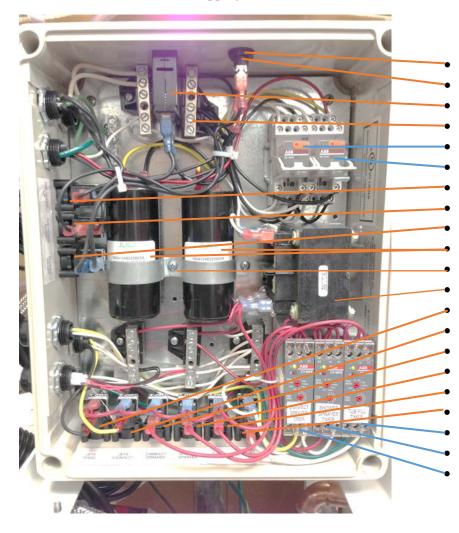
Solenoid Valve Locations



- 140124 Solenoid Valve Rinse Jets Blue
- 140124 Solenoid Valve Tub Fill Green
- 140124 Solenoid Valve Disinfect Jets Yellow
- 140124 Solenoid Valve Hand Shower Red
- 140124 Solenoid Valve Disinfect Sprayer Gray

Electrical Kit Parts

Electrical Kit can be accessed easily by opening the lid of the Front Panel, removing the bottle tray, and carefully lifting the kit upward to an accessible position. (The first time the electrical kit is remove, a zip tie that secures the kit for shipping must be remove.)

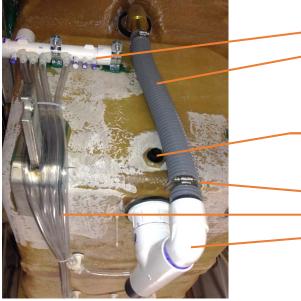


350533 - Fuse - 1 Amp SLOBLO 350530 - ¼ X 1-1/4" Fuse Holder 350526 - Circuit Breaker 15 amp 140926 - Neutral Bar with Insulator (5 ea) 390540-09 - Up Relay 390540-09 - Down Relay 350505 - Air Switch - Tub Height Up 350505 - Air Switch - Tub Height Up 350510 - Air Switch - Blower On/Off 390115 - Capacitors Actuator (2 ea) 390114 - Clamp (for Capacitors) 140952 - Transformer 115 to 24 Volt 350505 - Air Switch - Jets Rinse 350505 - Air Switch - Jets Disinfect 350505 - Air Switch - Disinfect Sprayer 350505 - Air Switch - Shower Sprayer 350505 - Air Switch - Tub Fill Start 370505 - Air Switch - Tub Fill Stop 350545-09 - Timer Tub Fill 350545-09 - Timer Shower Sprayer 350545-09 - Timer Disinfect Sprayer

Timer Adjustments Explanation

There are three Timers located in the lower right hand corner of the Electrical Kit (shown above). They are adjusted by setting the timer sector and value. An example is the Time Sector_setting of 100S = 100 seconds and with the Time Value set at 5, the timer is now set for 50 seconds. Another example is the Time Sector setting of 1000S = 1000 seconds and with the Time Value set at 5, the timer is now set for 500 seconds.

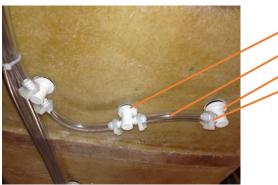
Tub Parts



360605 - Manifold

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- 390409 Hose 1 ¼ ID
- 390177 Drain Plug Assembly (not shown inside tub)
- 360630 Temp probe adapter
- 360637 Temp probe lock nut
- 360638 O-ring Buna #108
- 360633 O-ring Buna #218
- 350255 Nut, 1 1/4-16 Brass
- 590758 Hose Clamp 24
- 350276 Tubing Clear 3/8 ID
- 390176 Drain Replacement Kit
- (Includes the Base Shoe, Basket, Washer, and Tee)



- 360650- Tee Air Jet (Washer included)
- 350276 Tubing Clear 3/8 ID
- 360655 Elbow Air Jet (Washer included)
- 201900 Snap Clamp -Nylon Size 8

Jet Parts

	•	360646 – Cap White
		360644 – Cap Black
Ť	•	350134 – Kit – Internal Jet Replacement
#	•	Jet body
V	•	Washer (Included with Elbow or Tee below)
0	•	360655 - Elbow – Air Jet (Washer Included)
	•	201900 - Snap Clamp Size 08 Nylon
and a state of the		360650 - Tee - Air Jet (Washer Included)

Checking for the Correct Dilution of Disinfectant

- 1. Check to see if a container of disinfectant has been installed. Assure that the disinfectant tube is inserted into the container and connected to the Injector with black metering tip. See the drawing of the square injector below for location of the metering tip.
- 2. Visually check if disinfectant is in the hose all the way to the injector. If not, the disinfectant can be brought to the injector by pushing the "Disinfect Jets" button on the tub until disinfectant fills the hose all the way to the injector.
- 3. With the drain open, push the fill button on the tub to check the water temperature. Adjust the temperature control to read 60 degrees to 65 degrees (F). When the temperature remains in the above range, turn off the fill button.
- 4. Allow the water to drain from the tub.
- 5. Close the tub drain, push and hold the disinfect button long enough to bring the disinfectant mixture into the tub then release the disinfect button.
- 6. Test the solution in the foot-well of the tub with the Dilution Check Kit (140481). A dispenser of test paper (part number 219201) is included in this kit.
- 7. Tear off a strip of test paper from the dispenser and immerse in the solution for at least (10) seconds. Compare the color that the test paper turns with the chart on the dispenser. If the test paper matches the green in the range of 600-800, the disinfecting solution is the correct strength.
- 8. If the color of the test paper matches a color on the dispenser chart in the 800-1000 range, install the next smaller metering tip. See metering tip chart for color reference. The injector is furnished with a black metering tip installed (part number 1404824). The Metering tips listed below are included in the Dilution check kit, (Part number 140481). In a Pacific tub there is a hand sprayer for disinfectant. The injector (273.8) for this is fitted with a red metering tip. A white metering tip, (part number 404823), is included in the Dilution Check Kit (part number 140481).
- 9. If the color of the test paper matches a color on the dispenser chart in the 0-400 range, contact Penner Mfg for metering troubleshooting instructions.

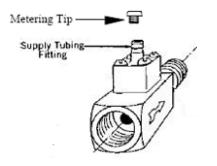
METERING TIP CHART APPLICABLE TO THE AQUA-AIR JET DISINFECTION INJECTOR

<u>Color</u>	Part Number	Metering Tip Size	Solution Strength
Black	1404824	Large	Preferred Strength
Blue	1404822	Medium	Less Strength

METERING TIP CHART APPLICABLE TO THE PACIFIC HAND SPRAY DISINFECTION INJECTORS

Red	1404825
White	1404823

Medium Small More Concentrate Least Concentrate



Actuator Brake Replacement

(Kit 3911221 Instructions)

- 1. Drain the water and remove the entire back panel of the Pacific panel, and the smaller lower back panel (center) for easy access to the Pacific Panel actuator.
- 2. Raise the Pacific Panel to the maximum height. Insert two each 2x4's 16" long, under the actuator frame as shown picture at the right. This prevents the frame from lowering and takes the pressure off of the actuator. Lower the panel to just above the wooden blocks.

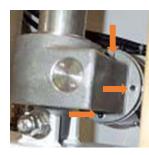
WARNING: Do not power the actuator down against the wooden blocks. Failure to stop lowering the panel before hitting the wooden blocks will cause damage to the actuator.

- 3. Remove the lower front panel (center) from the Pacific Panel to gain access to the front end of the actuator (shown at the right).
- 4. Using the provided 9/64 ball-point hex driver, remove the three socket head screws indicated in picture at the right. Once the three screws are removed, the motor can be taken off of the actuator. This exposes the actuator brake and coupler. If the panel had yet to come down on the wood blocks used in step 2, it should now.
- 5. Remove the coupler and old brake assembly from the shaft.
- 6. Inspect the brake cavity of the actuator casting and brake. If grease is present, then the shaft seal is damaged. A replacement seal is not available. Immediately contact Penner Mfg Parts at 1-800-732-0717 for options.
- 7. If there is no grease, then clean the brake residue from the casting cavity.
- 8. Place the new brake assembly in the cavity and on the shaft with the side of the brake assembly that is shown in the picture, to the right, going in first. A needle nose pliers works well for this step.
- 9. Install the provided rubber coupler onto the actuator shaft, on top of the brake.

WARNING: Failure to align the slots on the actuator shaft, the coupler, and the motor will damage the actuator.

- 10. Install the motor ensuring that the coupler driver aligns with the slots on the motor shaft.
- 11. Re-install the screws which were previously removed and tighten.
- 12. Raise the panel to maximum height and remove the wooden blocks.
- 13. Re-assemble the previously removed panels on the Pacific Panel.











Brake assembly

Solenoid Parts Breakdown



NUT SPRING WASHER COIL SLEEVE PLUNGER PLUNGER SPRING FLANGE SEAL COVER O-RING DIAPHRAGM O-RING DIAPHRAGM O-RING BODY

140124 - Solenoid Valve Complete

1401308 - Service kit for Solenoid Valve

(Includes both O-rings, diaphragm, both springs, flange seal, plunger, and a tool (not shown) to remove the sleeve.

Dema Injector Parts



If you have problems or questions with your Pacific Tub or its parts, Please, contact Penner Mfg Inc. at the phone numbers listed below.

PENNER PATIENT CARE, INC Box 523 / 102 Grant St. Aurora, NE 68818

1-866-PENNERS 1-866-736-6377 1-800-732-0717

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