

Pacific

Parts and Service Manual 390748 Rev K 3-11-2024

1-800-732-0717

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PENNER BATHING

Bathing Solutions for Every Need

Penner Patient Care
101 Grant St
Aurora, NE 68818
Service help call 1-800-732-0717 or 1-866-736-6377
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Parts and Service Manual

Pacific Operation Controls

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Front Left Controls



Front Right Controls



- 140104
- 3. 350192CH
- 4. 140106
- 5. 350495
- 6. 350200
 - 1. 350201
 - 2. 350204
 - 350210 3.
 - 350215
 - 5. 350205
- 350535M-SER
- 8. 350151
- 9. 390403
- 10. 390220

Hand Shower W/ Trigger-Yellow

Swivel Chrome Elbow (Qty 3)

Shower Hose Chrome- 96" (Qty 3)

Hand Shower W/ Trigger (Qty 2)

Raised Push Button Air Transmitter (Qty 9)

Dispenser Pump-Complete (Qty 2)

"O"Ring for Dispenser Pump

Spring-Replacement

Nut-Pump White

Cap- Dispenser Pump

Spacer- Pump Mount

Thermometer (F° or C°)

Rada Mixing Valve (Page X for parts)

Dispenser Spout Oil and Shampoo, Air Outlet

Spigot-9700





Front Bottom Dispensers

Front Controls 3



Bottle Tray-Mixing Valve 390748 Rev K 3-11-2024

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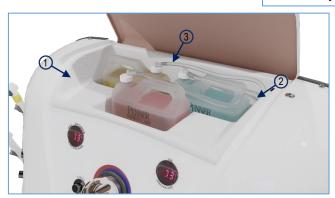
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Foot Strainer

Components of spa are referenced in relation to the front of the spa. The front of the spa is as a person sits/lays in the spa facing the controls.

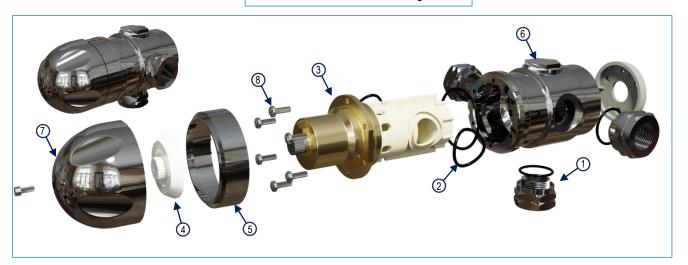
4. 140489

Bottle Tray Components



390390 **Bottle Tray** 350198 Shampoo/Oil line Kit 1. 350276 3/8" Tubing Clear 2. 201900 Snap Clamp Size 8 3. 140299 Plastic Elbow 3. 350196 Disinfect Line Kit 1/4" Tubing Clear 1. 140261 2. 106351 Snap Clamp Size 6 3. 140277 1/4" Plastic Elbow

Rada 320 Breakdown-Mixing Valve



1.	350157	Inlet/O	utlet Adapter,	¾" Ferr	nale
_					

2. 350158 Seal Pack (includes all O-rings)

3. 350151 Cartridge- with O-rings Rada 320

1. 350154 Hub

5. 350152 Temperature Indicating Ring

6. 350163 Cap (with O-ring)

7. 350162 Knob Pack (Knob, screw, and wrench)

8. 350159 Screw Pack (Includes all screws)

Note: Scan QR code in upper left corner for video on adjustment and removal of the Rada 320 Mixing Valve.



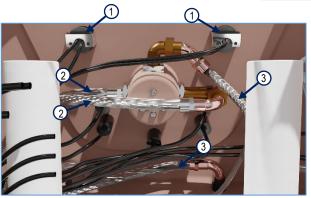
Plumbing Components 390748 Rev K 3-11-2024

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Mixing Valve-Rear Plumbing

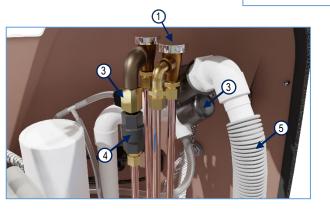


- 1. 350535M
- 2. 390100
- 3. 350185

Thermometer F°/C° Hose 72" Braided

Hose 36" Braided

Vacuum Breakers-Air and Disinfect



- 1. 144105
 - 1. 144110
- 2. 1404804
- 3. 390406
- 4. 140474
- 5. 390409

Vacuum Breaker

Service Kit-Vacuum Breaker 3/8"

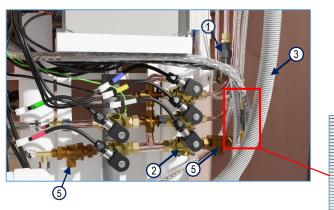
Dema Injectors (Jets)

Check Valve Assembly Complete

Check Valve Plastic Black Check Valve

Vacuum Hose 1 1/4" ID

Disinfect Sprayer Parts



- 1. 140474
- 2. 140124
- 3. 390409
- 4. 390302
- 5. 140478
- Check Valve-Plastic Solenoid Valve (See

Solenoid Valve (See Solenoid Parts, pg8)

Hose Vac 1 1/4" ID

Dema Injector (Disinfect Sprayer)

Backflow preventer 1/2" 9D-M3



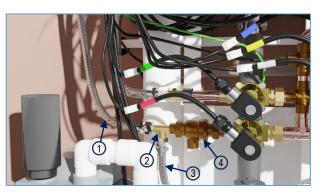
Water/Air Supply 390748 Rev K 3-11-2024

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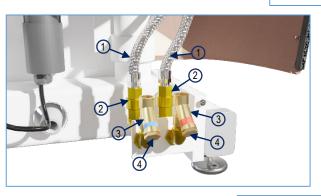
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Hand Shower Supply Parts



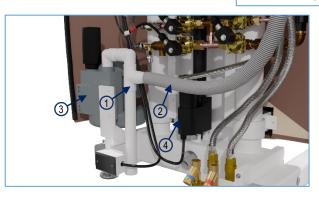
- . 360496 Hose-30"x3/8"
- 2. 360441 Tee-3/8x3/8 male run
- 3. 360491 Hose-48"x3/8"
- 4. 140478 Backflow Preventer ½" 9D-M3

Water Supply Hook-up



- 1. 390100 Hose-72" Braided
 - . 350320 Check Valve ½" Brass
- 3. 350315 Screen ½" 40 mesh In-line
- 4. 350316 Replacement Screen Only

Water Trap Assembly-Blower-Actuator



- 1. 3901761
- 2. 390409
- 3. 350602
- 4. 3911221B

Water Trap Assembly

Hose Vac 1 1/4" ID

Blower-Air motor

Actuator



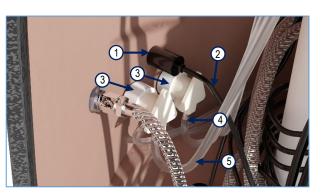
Pumps/Valves/Plumbing 390748 Rev K 3-11-2024

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Dispensing Pumps



- 350495
- 040955
- 350200
- 4. 201900
- 350276

Air Transmitter

Tube 1/8" ID

Dispenser Pump (Includes Mounting Parts)

Snap Clamp Size 8 (Qty 2 per pump)

Clear hose 3/8" ID

Solenoid Valve Locations



- 140124 1.
- 2. 140124
- 3. 140124
- 140124
- 140124

Solenoid Valve-Rinse Jets-Blue

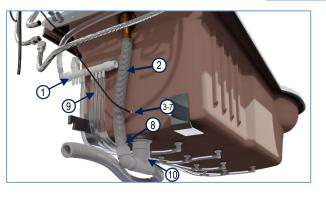
Solenoid Valve-Tub Fill-Green

Solenoid Valve-Disinfect Jets-Yellow

Solenoid Valve-Hand Shower-Red

Solenoid Valve-Disinfect Sprayer-Grey

Spa Tub Plumbing



- 360605
- 390409
- 360630
- 360637
- 360638
- 360633
- 7. 350255
- 590758
- 350276
- 10. 390176

- Manifold
- Hose 1 1/4"ID
- Temp Probe Adapter
- Temp Probe Lock Nut
- O-ring Buna #108
- O-ring Buna #218
- Nut 1 1/4"x16 Brass
- Hose Clamp 24
- Tubing Clear 3/8" ID
- Drain Replacement Kit (Includes Base
- Shoe, Basket, Washer, and Tee)



Aqua-Aire Jets/Solenoid Valves
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Aqua-Aire Jets

1. 360646 Cap-Black

1. 360644 Cap-White

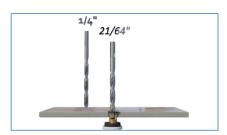
2. 350134 Kit-Internal Jet Replacement

3. Jet Body

4. Rubber Washer Included with Elbow or Tee
 5. 360655 Elbow-3/8" Barb Air Jet
 1. 360650 Tee-3/8" Barb Air Jet

6. 201900 Snap Clamp for 3/8" ID Tubing (not shown)

7. 350276 Tubing-Clear 3/8"ID





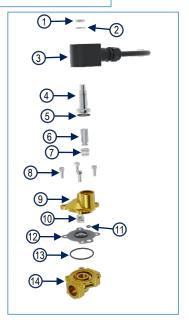
Air Jets can be cleaned from hard build up by using a 21/64 drill bit and a ¼ drill bit. Run the bits through the jet body after removing the cap and internal check valve components. The 21/64 bit will bottom out on a shoulder in the jet body. The ¼ bit will run all the way through to the tee fitting. **DO NOT USE POWER TOOLS**. Run drill bits by hand.

Solenoid Valve Breakdown

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.



- 1. Nut
- 2. Spring Washer
- 3. Coil
- 4. Sleeve
- 5. Flange Seal
- 6. Plunger
- 7. Spring
- 8. Screw (Qty 4)
- 9. Cover
- 10. Spring
- 11. O-Ring
- 12. Diaphragm
- 13. O-Ring
- 14. Body



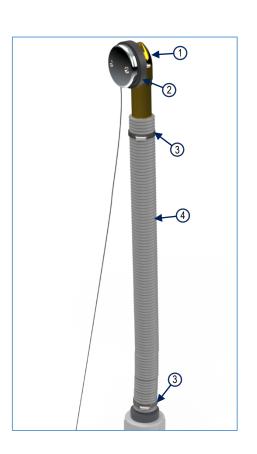
Drain Components

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1.	350174	Overflow tube
2.	350173	Beveled rubber washer
3.	590758	Hose clamp
4.	390410	Hose-Grey overfill
5.	1050345	Washer 1 7/8"x2" Rubber
6.	1050401	Base Shoe Basket, Chrome
7.	350169	Drain Plug
8.	390176	Base Shoe Assembly-Pacific
9.	140370	Removal Tool-Chrome Baske





A removal tool may be ordered to tighten or loosen Base Shoe Basket from Base Shoe Assembly. DO NOT overtighten as this may cause the Base Shoe Assembly to crack and create leaks.





Electrical Kit 390599

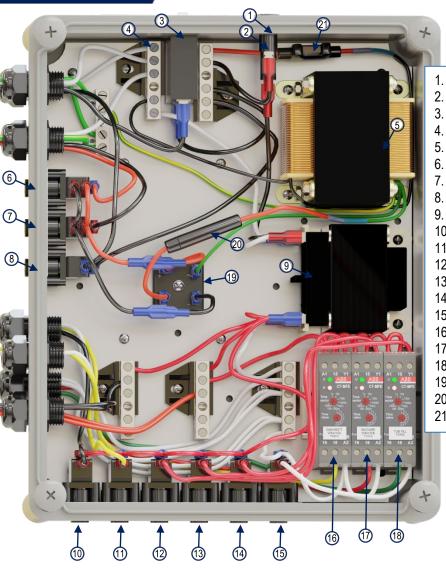
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Electrical Kit can be accessed easily by opening the lid of the Front Panel, removing the bottle tray, and carefully lifting the kit upward to an accessible position. (The first time the electrical kit is removed, a zip tie that secures the kit for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



Fuse-1 Amp SloBlo

1/4"x1-1/4" Fuse Holder Circuit

Breaker-20Amp Neutral Bar

w/Insulator (Qty5) -Inverter-

Actuator Power Air Switch-UP

370505 Air Switch-Down

370505 Air Switch-Blower On/Off

Transformer-115-24V 350510

140952 Air Switch-Jets Rinse

10. 350505 Air Switch-Jets Disinfect Air

11. 350505 Switch-Disinfect Sprayer Air

12. 350505 Switch-Shower Sprayer Air

13. 350505 Switch-Tub Fill Start

Air Switch-Tub Fill Stop 14. 350505

15. 370505

350533

350530

350525

140926

140955

16. 350545-09 Timer-Tub Fill

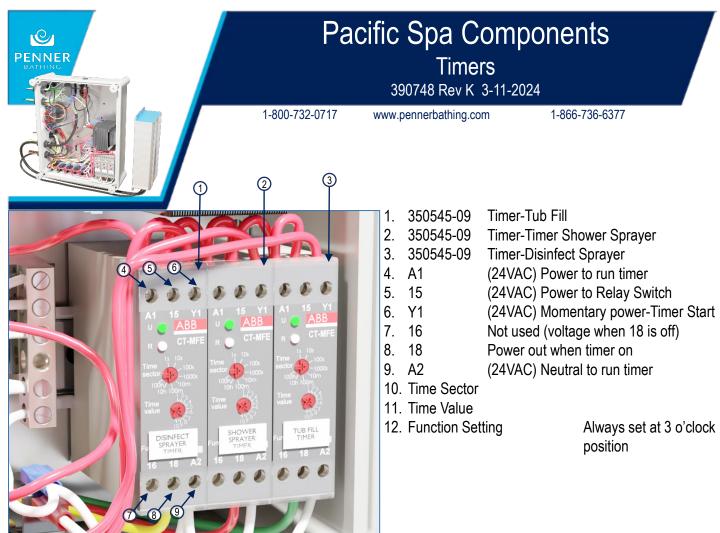
17. 350545-09 Timer Shower Sprayer

18. 350545-09 Timer Disinfect Sprayer

19. 140957 Diode Rectifier

20. 12 amp 1/4x1-1/4 glass fuse

21. 5 amp mini spade fuse



Timer is adjusted by setting the timer sector and value. An example is the <u>timer sector</u> setting of 100S- 100 seconds and with the <u>time value</u> set at 5, the timer is now set at 50 seconds. Another example is the <u>timer sector</u> setting at 1000S- 1000 seconds, and with the <u>timer value</u> set 5, the timer is now set for 500 seconds. The time value is a percentage of the timer sector, going from 10%-100%.



Pacific Disinfect

Disinfect Dilution Test

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Correct Dilution of Disinfectant Check

- 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.
- 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 spa until disinfectant fills the hose all the way to the injector.
- 3. With the drain open, push the fill button on the spa 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 spa.
- 5. Close the spa drain, push and hold the disinfect button long enough to bring the disinfectant mixture into the spa then release the disinfect button.
- 6. Test the solution in the foot-well of the spa 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 spa 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-AIRE JET DISINFECTION INJECTOR				
<u>Color</u>	Part Number	Metering Tip Size	Solution Strength	
Black	1404824	Large	Preferred Strength	
Blue	1404822	Medium	Less Strength	
METERING T	TP CHART APPLICA	BLE TO THE PACIFIC HAND SPRAY D	ISINFECTION INJECTORS	
Red	1404825	Medium	More Concentrate	
White	1404823	Small	Least Concentrate	

Dema Injector Replacement-Sprayer 390302
Dema Injector Replacement-Jets 1404804



Pacific

Spa Maintenance Checklist 390748 Rev K 3-11-2024

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Maintenance and Adjustments

Routine Maintenance	Bathing Solutions for Every Need
Suggested maintenance to be performed on unit.	Contact your Authorized Penner Spa Distributor for periodic
updates to this revision.	

ub Serial #
eservoir Serial #
ransfer Serial #

Checklist	Monthly	Quarterly	Semi-Annually	Yearly
Spa				
Check hoses and connections for leaks or damage.			Х	
Check Aqua-Aire functions and controls.			Х	
Check disinfectant system		Х		
Check Thermometers accuracy with calibrated			Х	
probe thermometer.			^	
Inspect electrical connections. (GFCI, Circuit breakers)	Х			
Check mixing valve for proper temperature. Use a calibrated			Х	
probe thermometer to verify.			^	
Check Screens and water supply connections.			Х	
Transfer				
Inspect Batteries for Transfers	Х			
Check E-Stop to make sure it functions properly	Х			
Check function of Emergency lowering button		Х		
Belts for transfers and lifts should be free from tears.	Х			
Castors should be kept clean and make sure the brakes hold		Х		
securely.		^		
Hand control is functioning correctly		Х		
Batteries for Scales			Х	
Scale is calibrated regularly or when variance are observed.	erved.			
(May be more or less according to Facility regulations) Use a		^		
calibrated 25 or (50lb for Bariatric) weight to do calibrations.	ions.			
Reservoir				
Reservoir Tank- Clean/Disinfect as needed.	Х			

The above items should be adjusted if issues occur more frequently. Each facility is different so quality of water plays an important role in many of these checks. Many of the items listed above are in your manuals. The manuals are a great source of information regarding making adjustments to temperatures installing and operating. Also your facility or state and local codes may require more frequent inspections.

If help is needed with checking or making adjustments please call your local distributor or you may also call Penner Manufacturing directly for assistance.

Penner Manufacturing Inc. 1-402-694-5003

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Aurora, Ne 68818 1-800-732-0717

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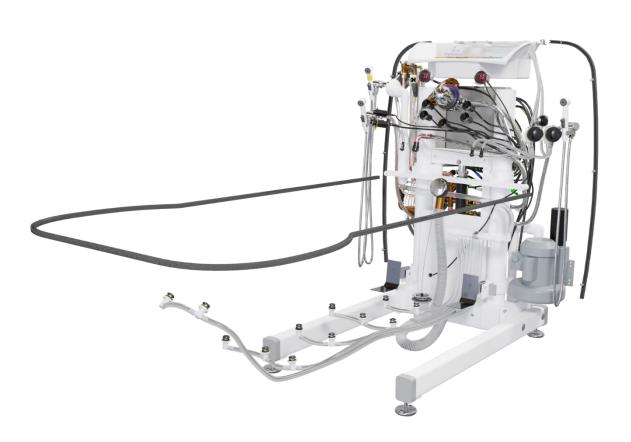
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Pacific

Recumbent Height-Adjustable Spa

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Your Penner Distributor and personnel are trained to provide in-service instruction and maintenance on your Pacific Spa. If you have any questions about the operation or maintenance of your Pacific, please contact your Penner Distributor. For you nearest Penner Distributor, Contact:

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Service help call 1-800-732-0717 or 1-866-736-6377
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