

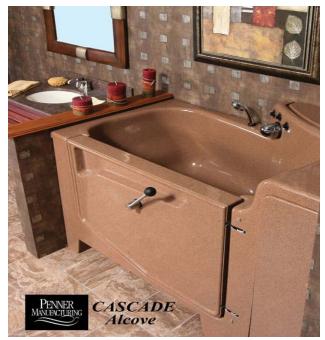
# CASCADE

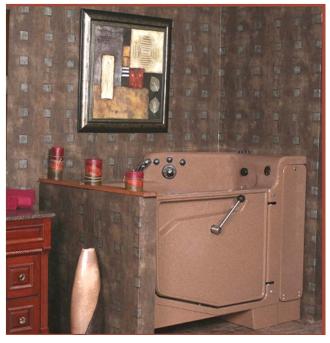
## Aqua-Aire Alcove



Parts Breakdown &

Assemblies





TUBS-361910-1A, 361910-1I, 361910-XA , 361910-XI

360748A Revision "C" Date 02/15/10



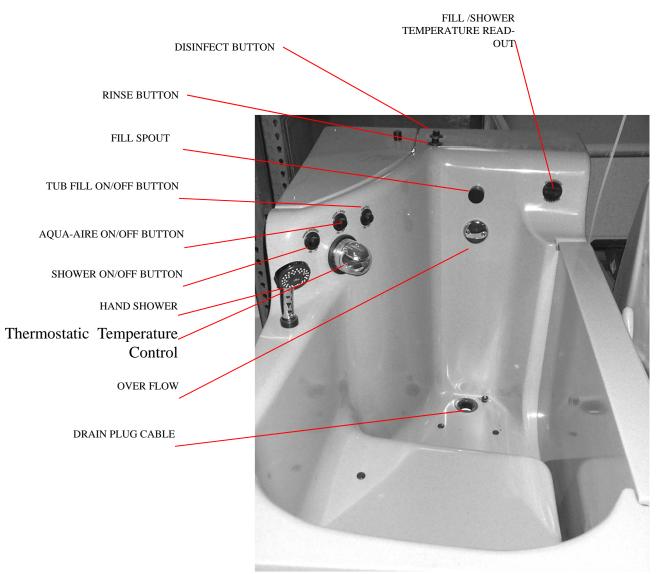
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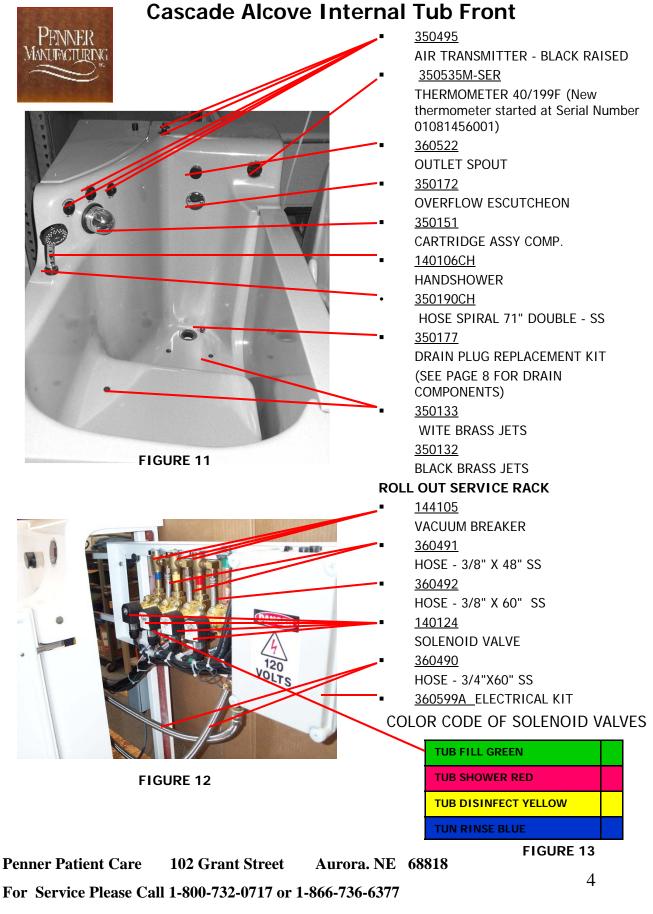
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## **Cascade Alcove Controls**



The Cascade Alcove Tub is a specialized tub with jets (Aqua-Aire). It has been designed for assisted living patients and to help bathe your patients automatically. The tub has a built-in control panel, which provides controls for all the functions of the tub, as shown below.

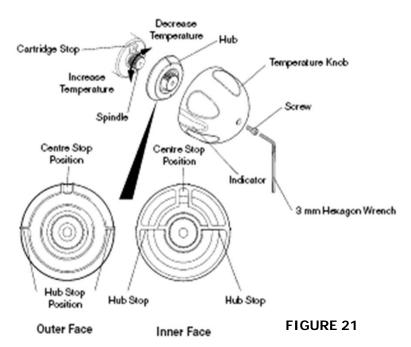




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## **Cascade Mixing Valve Adjustment**



#### For Adjustable Temperature

1. Remove the temperature knob screw using a 3 mm hexagonal wrench (supplied). Remove the temperature knob.

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 (refer to Figure 7-1) 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.

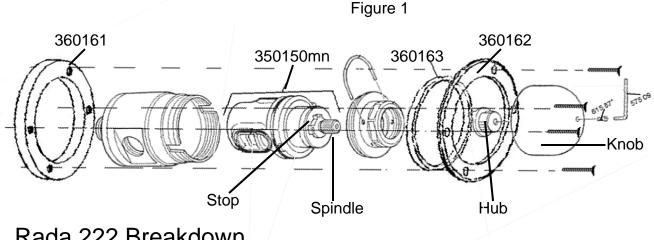
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### **Cascade Mixing Valve Adjustment** Rada 222 Currently applicable only in Minnesota



Rada 222 Breakdown

For Adjustable Temperature:

1. Remove the temperature knob assembly or locking cap using 3mm wrench (see Figure 1).

2. Pull off the temperature hub.

3. Rotate the spindle until required maximum blend temperature is obtained at discharge point (clockwise = decrease 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 has been achieved, refit the hub without disturbing the spindle, positioning the hub such that the lug is against the side of the stop on the cartridge face, thus preventing anticlockwise rotation which could damage the internal mechanism (see Figure 1). Check that blend temperature has not altered.

5. Refit temperature knob so that the indicator on the metal knob is aligned to the left of the red markings (approximately in the 9 O'clock position).Figure1 - Locked Temperature Setting Maximum Temperature Setting3 mm.



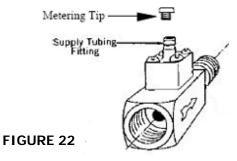
#### CHECKING FOR THE CORRECT DILUTION OF DISINFECTION ON SUPERIORS. CASCADES, AND PACIFICS

- 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 (204C) 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 pushing the disinfect 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).
- 9. If the color of the test paper matches a color on the dispenser chart in the 0-400 range, install a metering of the next larger size and re-test.

<u>Color</u>	Part Number
Black	404824
Blue	1404822

Metering	Tip	Size
Large	-	
Medium		

Solution Strength Preferred Strength Less Strength



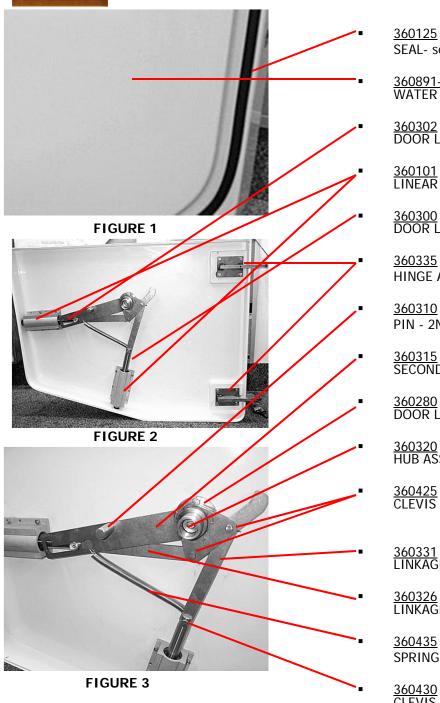
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**Cascade Water Door** SECONDARY LOCK ASSEMBLY IS AN OPTION



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SEAL- self adhesive

<u>360891-1</u> WATER DOOR – WHITE

<u>360302</u> DOOR LOCK BOLT – SHORT

360101 LINEAR BEARING

<u>360300</u> DOOR LOCK BOLT – LONG

<u>360335</u> HINGE ASSEMBLY

360310 PIN - 2ND LOCK

360315 SECONDARY LOCK ASSEMBLY

360280 DOOR LOCK SPINDLE

<u>360320</u> HUB ASSEMBLY

<u>360425</u> CLEVIS PIN - 3/8 X 1" SS

360331 LINKAGE - OFF-SET

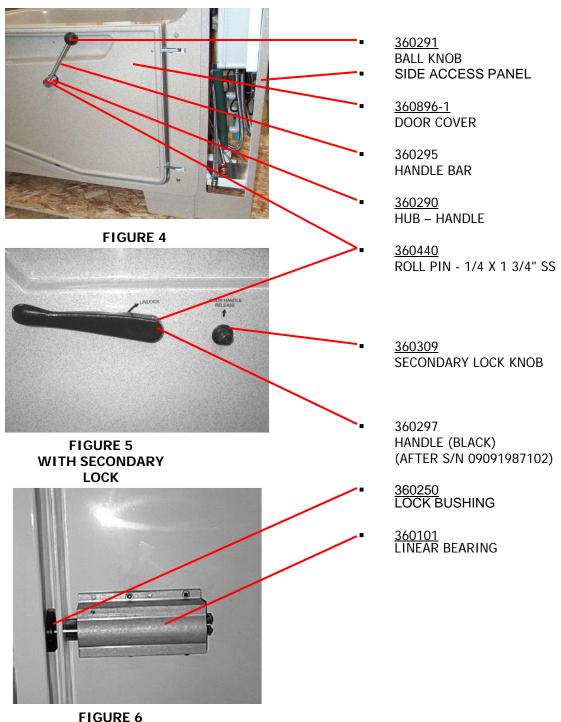
<u>360326</u> LINKAGE – STRAIGHT

SPRING - ZINC PLATED

<u>360430</u> CLEVIS PIN - 1/2 X 1 1/4" SS

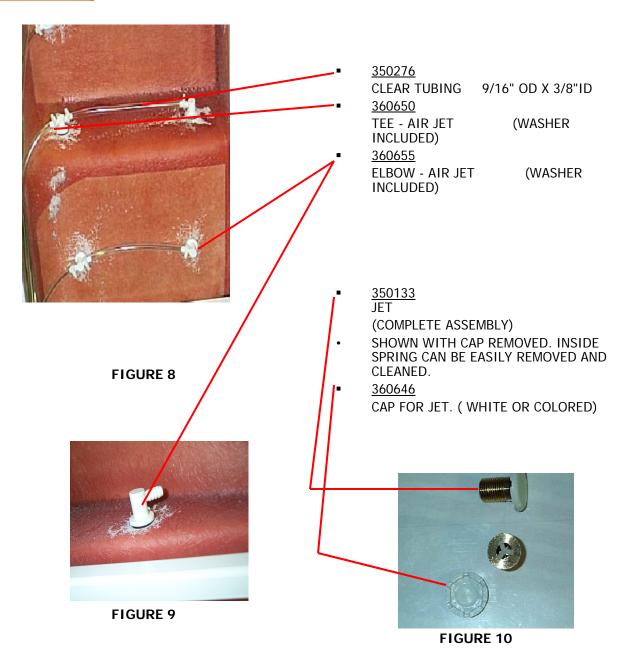


#### **Cascade Water Door Internal & Exterior**





## Cascade Bottom view of Jets and Connection





#### **Cascade Alcove Plumbing View**

Looking down into the compartment towards the wall side of the tub from top. <u>THE BLOWER IS RELACABLE THROUGH THIS</u> <u>ACCESS. CALL FOR TECHNICAL ASSISTANCE.</u>

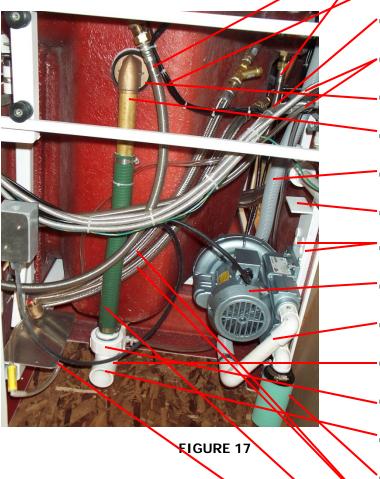


CONTINUED 144105 VACUUM BREAKER 140124 SOLENOID VALVE 360492 HOSE - 3/8" X 60" SS 360491 HOSE - 3/8" X 48" SS 350315 SCREEN MESH IN-LINE 390112 CLAMP HOSE SS 390409 HOSE VAC 1-1/4 ID (DRAIN PARTS) 1050401 BASE SHOE BASKET 360402 BASE SHOE ASSY (INCLUDES SHOE AND PLST ÀDAPT) 1050345 WASHER RUBBER 350391 DRAIN SCREEN 360628A CHK VALVE 1 1/2" BLK SER REPLA 350602 **BLOWER** 350320 BRONZE CHECK VALVE 350315 SCREEN MESH IN-LINE 140261 HOSE 1/4" CLEAR 390111 SNAP CLAMP SIZE 390112 CLAMP HOSE SS



## **Cascade Plumbing View**

#### VIEW FROM BACK ON TUB, WHEN NOT AGAINST WALL, TO SHOW ORIENTATION OF COMPONENTS



\*Note: See Page 12 for Metering Selection and Dilution Instructions

- <u>360490</u>
- HOSE 3/4"X60" SS
- <u>040955</u>
  - AIR TUBE 1/8" ID
- <u>360492</u>
  - HOSE 3/8" X 60" SS
  - <u>360491</u>
    - HOSE 3/8" X 48" SS
- <u>350173</u>
  - BEVELED WASHER
- 350174
  - OVERFLOW & TUBE
- <u>390409</u>
  - HOSE VAC 1-1/4 ID
- LIFT HANDLE WHEN REPLACING BLOWER.
- 201700
  - MOUNT BOLTS TO REMOVE BLOWER
- <u>350602</u>
  - BLOWER AIR
- <u>360404A</u>
  - WATER TRAP ASSY ALCOVE
- <u>1050461</u>
  - TEE DRAIN NEW PLASTIC
- <u>1050481</u>
  - NUT 2 IN SLIP JOINT (PLASTIC)
- <u>1050501</u>
  - WASHER 2 IN. RUBBER SLIP JOINT
  - <u>350601</u>
  - FILTER AIR
  - <u>350185</u>
    - HOSE ASSEMBLY 36"
- <u>350187</u>
  - GREEN PIPE 1 1/2" ID FLEX 18"
- DISINFECT BOTTLE TRAY

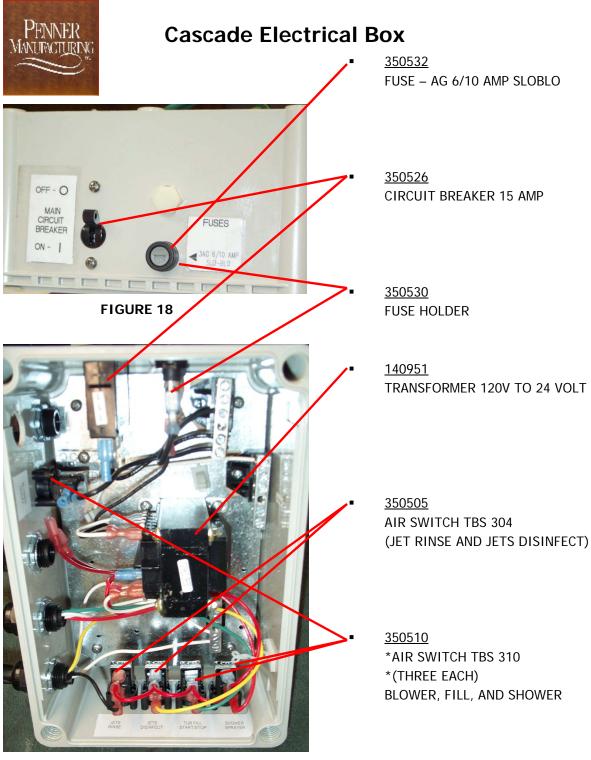
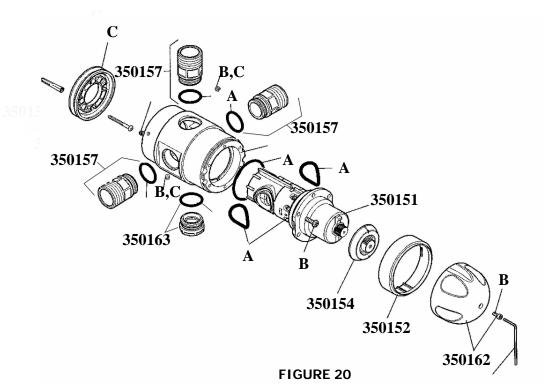


FIGURE 19



### Mixing Valve Service Component Breakdown



Part No.	Description
350149	Body, Rada 320 (less connector)
350150	Temperature Indicating Ring
350151	Cartridge Assembly
350154	Hub Pack
350157	Inlet/Outlet Adapter, 3/4 Female "
350158	Seal Pack -Includes A" Components "
350159	Screw Pack -Includes B" Components "
350161	Backplate Kit -Includes C" Components "
350162	Knob Pack
350163	Blanking Cap

Rada Valve Website

http://www.armstrongintl.com/products/lynnwo od/pdf/installation/ALIB-<u>320.pdf</u>



## CASCADE Aqua-Aire/ Alcove

Your Penner Distributor and his personnel are trained to provide in-service instruction and maintenance on your Cascade Bath System If you have any questions about the operation or maintenance of your Cascade Bath System, please contact your Penner Distributor. For your nearest Penner distributor, contact

#### Penner Patient Care, Inc.

at

1-866-736-6377

OR

1-800-732-0717