

Owner's Guide

CASCADE[®] 7284

AND

RADIUS[®] 7285

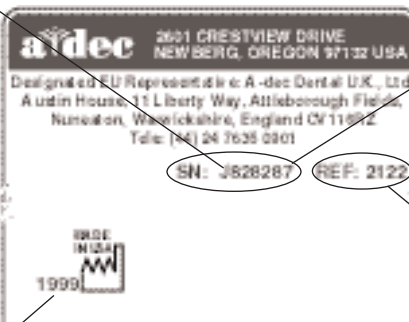
CUSPIDOR

Warranty Information	
Serial Number	_____
Model Number	_____
Date Purchased	_____

Date of Service	Model/Description of Service	Technician's Initials

ALPHABETICAL
EQUIVALENT TO THE NUMERAL
OF THE MONTH MANUFACTURED

A	January
B	February
C	March
D	April
E	May
F	June
G	July
H	August
I	September
J	October
K	November
L	December



SERIAL (SN)
NUMBER

MODEL (REF)
NUMBER

SERIAL NUMBER
IDENTIFICATION

YEAR MANUFACTURED

Cuspidor Serial Number Location:

- On the underside of the cuspidor

For service information contact your local authorized A-dec dealer.

Check with local codes and A.D.A. (Americans with Disabilities Act) Requirements for Installation of this product.

Warranty:

A-dec warrants all products in this owner's guide against defects in material or workmanship for one year from time of delivery. A-dec's sole obligation under the warranty is to provide parts for the repair, or at its option, to provide the replacement product (excluding labor). The buyer shall have no other remedy. All special, incidental, and coincidental damages are excluded. Written notice of breach of warranty must be given to A-dec within the warranty period. The warranty does not cover damage resulting from improper installation or maintenance, accident or misuse. The warranty does not cover damage resulting from the use of cleaning, disinfecting or sterilization chemicals and processes. The warranty also does not cover light bulbs. Failure to follow instructions provided in the A-dec owner's guide (operation and maintenance instructions) may void the warranty. A-dec warrants A-dec dental chair cylinders, both lift and tilt, for ten years from the date of purchase of the chair or the cylinder. This warranty is retroactive to A-dec chair cylinders already in the field. The warranty covers chair cylinders A-dec finds to have manufacturing related irregularities. Stool cylinders are covered under A-dec's one-year warranty.

NO OTHER WARRANTIES AS TO MERCHANTABILITY OR OTHERWISE ARE MADE.

Cascade 7284 and Radius 7285 Cuspidor

Return Policy:

U.S. and Canadian dealers wishing to return overstock (unopened) merchandise to A-dec for credit consideration must include a copy of the original invoice number. A return authorization form from an A-dec Territory Manager must be included with serial numbered equipment or A-dec/W&H handpieces. A 15% restocking fee will be assessed. Merchandise that cannot be returned for credit includes parts assembled to the dental unit, chair, light, or dental furniture; obsolete parts; and specials. Dental furniture cannot be returned for credit. Standard color upholstery ordered for obsolete chairs or stools cannot be returned for credit. In the case of a defective warranty item, a copy of the replacement invoice, serial number of the unit under which it was replaced, and a description of the symptoms of the defect must be returned with the part to:

A-dec Inc. 2601 Crestview Drive,
Newberg, Oregon 97132, USA.

Equipment Alterations Policy:

Certain modifications or alterations of A-dec equipment which expand the use of A-dec equipment beyond its design and intent, or which override any safety features of A-dec equipment may jeopardize doctor, patient or staff safety. Field modifications that alter the electrical and/or mechanical safety of A-dec dental devices are in conflict with Underwriters Laboratory (UL) construction file requirements and are not sanctioned by A-dec. Examples of field modifications that diminish safety design include, but are not limited to, rendering access to the line voltage without the use of tools, modification of supporting elements that increase or shift loading characteristics, and the addition of any powered device that exceeds the design limits of the dental system. The use of accessory equipment not complying with the equivalent safety requirements of A-dec equipment may lead to a reduced level of safety of the resulting system. It is the responsibility of the equipment distributor and the installer to assure that the installation complies with all building code requirements. The responsibility to determine whether a modification or alteration of A-dec equipment falls within these constraints is with the person(s) who initiates, approves and/or performs such modification or alteration. A-dec will not respond to inquiries on an individual basis. This person(s) will be deemed to have assumed all associated risks with such alteration or modification and will hold A-dec harmless from resulting claims, including product liability claims. Additionally, such modification or alteration voids A-dec's warranty and may invalidate UL or other regulatory agency approval.



All product names used in this document are trademarks or registered trademarks of their respective holders.

Printed in U.S.A. • Copyright © 2006 • All Rights Reserved

Cascade 7284 and Radius 7285 Cuspidor



Cascade 7284 Cuspidor



Radius 7285 Cuspidor

Serial number location, service information, and warranty information are located on the inside of the front cover and front page.

CONTENTS

About Your Cuspidor	2
Cuspidor Controls	3
Touch Pad (optional)	4
Master On/Off Toggle	4
Cuspidor Limit Switch	5
Gravity Drain Cleaning	5
Cleaning the Cuspidor	6
Care Instructions	7
Bowl Rinse Adjustment	7
Bowl Rinse Flow Adjustment	7
Bowl Rinse Time Adjustment	8
Cup Fill Adjustment	9
Utility Controls	10
Maintenance	11
Adjustments and Specifications	11
Identification of Symbols	12
Classification of Equipment (EN 60601-1)	12

About Your Cuspidor

The cuspidor is equipped with a timer for the bowl rinse. This timer can be adjusted to increase or decrease the length of time water flows into the bowl.

The cuspidor comes standard with an automatically timed cup fill.

On most units, the cuspidor on/off function is controlled by the master on/off toggle on the Cascade control head. For cuspidor only units, the cuspidor on/off function is controlled by the on/off toggle on the post box (Cascade 7284 only).

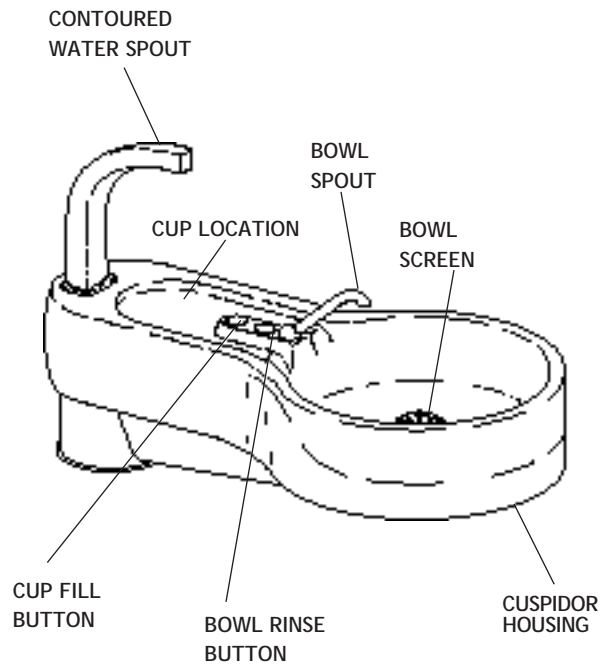


Figure 1. Cascade 7284 Cuspidor and Radius 7285 Cuspidor

Cuspidor Controls

Cup Fill Button. Allows water to flow into a cup. When your cuspidor has an automatic timer, press the button once and water will flow for approximately four seconds. If you have a manual cuspidor, water will flow as long as the button is pressed. *(Refer to page 9 for cup fill adjustments.)*

Bowl Rinse Button. Starts the timed bowl rinse. The bowl rinse provides rinse water for the cuspidor bowl. *(Refer to page 7 for bowl rinse flow adjustments.)*

Bowl Rinse Time Adjustment. Adjusts the length of time that water flows to the bowl rinse. *(Refer to page 8 for bowl rinse time adjustments.)*

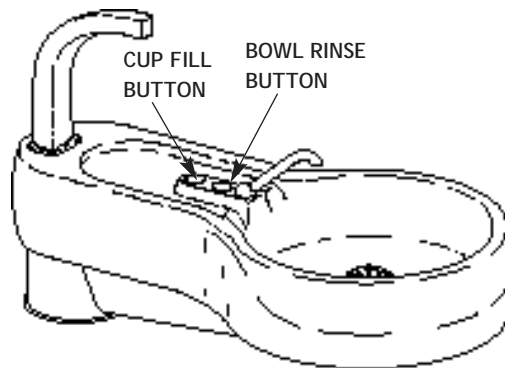


Figure 2. Cuspidor Control Locations

Touch Pad (Optional)

Your cuspidor may be equipped with a touch pad. For chair touch pad instructions, refer to the *Cascade 1040 Chair Owner's Guide* (A-dec Publication No. 85.2605.00) or *Decade 1011/1021 Chair Owner's Guide* (A-dec Publication No. 85.2635.00).

For Cascade Master Series® touch pad instructions, refer to your *Cascade Master Series Touch Pad Owner's Guide*, (A-dec Publication No. 85.2627.00).

Master On/Off Toggle

The master on/off toggle can be found on the post box, control head or Master Series touch pad. Moving the toggle to the ON position provides air and water to the system. Move the toggle to the OFF position while the unit is unattended to prevent water damage in case of a leak.

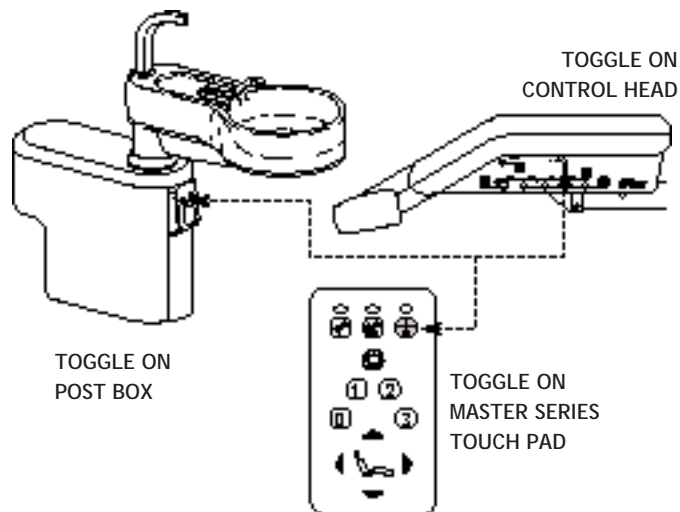


Figure 3. Master On/Off Toggle Locations

Cuspidor Limit Switch

Cuspidors mounted to A-dec Cascade or Decade® chairs are equipped with a cuspidor limit switch. This limit switch prevents potential equipment damage by stopping the chair immediately whenever the cuspidor is inadvertently lowered over an object, such as a stool.

To test the cuspidor limit switch, slightly lift the cuspidor and listen for a “click”. The “click” indicates that a switch has been activated. To check the operation of the limit switch, start lowering the chair. While the chair is in motion, lift the cuspidor slightly. The chair will stop and all chair functions except Base Up will be disabled. The Base Up function remains active so you can raise the chair to remove any object caught under the cuspidor. When the object has been removed, all chair functions will operate normally.

Gravity Drain Cleaning

At the end of each day, flush the drain to remove debris which can collect in the flexible drain tubing. If the drain is not flushed regularly, debris may build up and impair cuspidor draining. To flush the drain, raise the chair to its highest position and run the bowl rinse several times, long enough so that water flows down the drain for about 60 seconds.

Caution

Do not empty the solids collector screen into your cuspidor. Doing so could plug the cuspidor drain.

Cleaning the Cuspidor

Caution

Clean the cuspidor with the contoured water spout in place. This will help prevent cleaning solutions from causing potential equipment damage and contamination of the water flowing to the cup.

The cuspidor is designed for quick and easy cleaning. The contoured spouts and the smooth cuspidor housing help facilitate more complete cleaning. When cleaning, do not remove the contoured water spout (see Figure 4). Also remember to empty and clean the bowl screen.

Caution

Do not empty the bowl screen into your cuspidor. Doing so could plug the cuspidor drain.

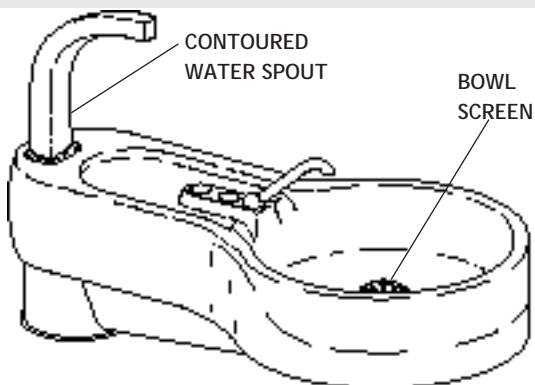


Figure 4. Cleaning the Cuspidor

Caution

After cleaning, always install the bowl screen in the cuspidor bowl drain to prevent debris from plugging the drain.

Care Instructions

For recommended asepsis instructions, refer to your *Equipment Asepsis Owner's Guide, A-dec Publication No. 85.0696.00*.

Bowl Rinse Adjustment

The flow of water to rinse the bowl and the length of time that water flows to rinse the bowl are set at the factory. Water conditions in your location may require a change in these settings.

Bowl Rinse Flow Adjustment

The bowl rinse flow adjustment location is inside the post box or under the cuspidor bowl (see Figure 5). To remove the side cover from the post box (Cascade 7284 only), insert your fingers under the lower edge of the cover and pull out and down on the side cover. If you have a Radius 7285 Cuspidor, loosen the thumbscrew and lower the cover.

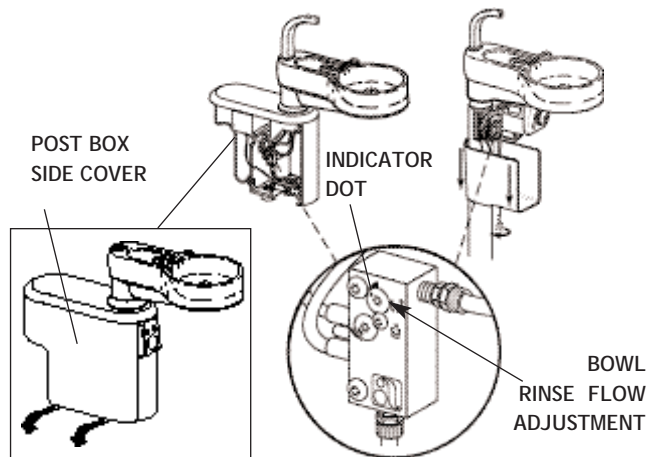


Figure 5. Bowl Rinse Flow Adjustment

Locate the bowl rinse flow adjustment (see *Figure 5*). Notice the position of the indicator dot which shows the present setting of the flow control.

Using an adjustment key or a $\frac{1}{8}$ -inch hex key, turn the adjustment key clockwise to increase the flow rate and counterclockwise to decrease the flow rate.

Check the flow rate by pressing the bowl rinse button. When the adjustment has been completed, reinstall the cover.

Bowl Rinse Time Adjustment

To change the length of time that water flows for the bowl rinse, locate the time adjustment screw (see *Figure 6*). Use an adjustment key or a $\frac{1}{8}$ -inch hex key and turn the adjustment key clockwise (as viewed from the bottom) to increase the length of time water flows to rinse the bowl or counterclockwise to decrease the length of time. Check the length of time for water flow and adjust until it is satisfactory.



Figure 6. Bowl Rinse Time Adjustment

Cup Fill Adjustment

Timed or Manual Cup Fill

The timer for the automatic cup fill is set at the factory. If you ordered an optional manual cup fill, the water flow is set during installation to prevent splashing. In either case, the amount of water flowing into the cup may be changed.

If an adjustment is necessary to either the manual or timed cup fill, remove the side cover on the post box (*Cascade 7284 Cuspidor*) by inserting your fingers under the lower edge of the cover and pulling out and down on the cover (see inset in Figure 5 on page 7). If you have a Radius 7285 Cuspidor, loosen the thumbscrew and lower the cover.

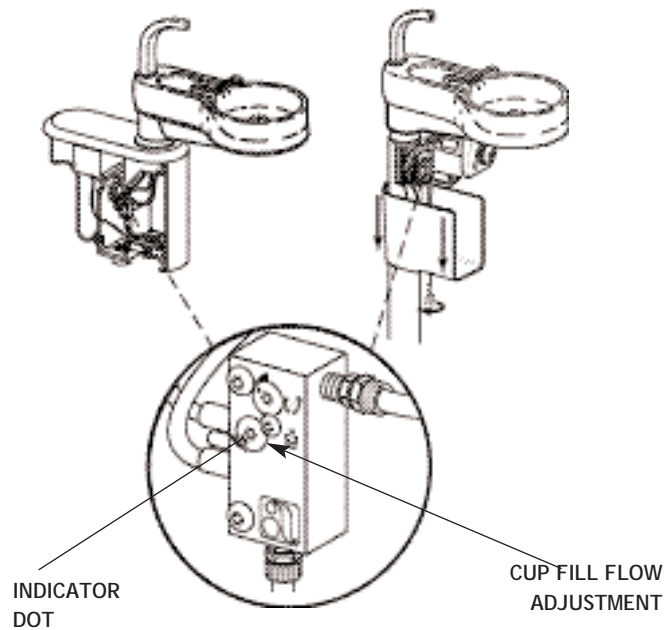


Figure 7. Cup Fill Flow Adjustment

Locate the cup fill flow adjustment (*see Figure 7*). Notice the location of the indicator dot showing the position of the current setting. Use an adjustment key or a 1/8-inch hex key and turn the key clockwise to increase the flow rate or counterclockwise to decrease the flow rate. Check the cup fill flow. When the adjustment has been completed, reinstall the cover.

Utility Controls

The air and water manual shutoff valves, filter and regulator package, as well as any vacuum or drain outlets, are located in the floor box mounted over the office plumbing on the floor or wall. *If you have a Cascade 7284 Cuspidor*, some controls are located in the post box at the side of the chair.

Refer to the *Floor Boxes Owner's Guide (A-dec Publication No. 85.2611.00)* for complete information about the floor box.

Maintenance

Gravity Drain Cleaning	page 5
Cleaning the Cuspidor	page 6
Care Instructions	
Equipment Asepsis	
Owner's Guide	85.0696.00
Parts	
Maintenance Parts	
Owner's Guide	85.2634.00

Adjustments and Specifications










Touch Pad Functions	
Cascade 1040 Chair	
Owner's Guide	85.2605.00
Decade 1011/1021 Chair	
Owner's Guide	85.2635.00
Cascade Master Series Touch Pad	
Owner's Guide	85.2627.00
Bowl Rinse Adjustment	page 7
Cup Fill Adjustment	page 9
Utility Controls	
Floor Boxes	
Owner's Guide	85.2611.00
Minimum air, water and vacuum service requirements for proper unit operation:	
Air: 2.50 cfm (70.80 l/min) at 80 psi (551 kPa).	
Water: 1.50 gpm (5.68 l/min) at 40 psi (276 kPa).	
Vacuum: 12 cfm (339.84 l/min) at 8 inches of mercury (27 kPa).	
Maximum weight for the 7284: 160 lbs (72.58 kg).	
Maximum moment at the 7284 unit mount arm created by the freestanding unit is 250 ft-lbs (339 N·m) along the axis of the post box.	

Cascade 7284 and Radius 7285 Cuspidor

Maximum weight for the 7285: 50 lbs (22.68 kg).
Maximum moment at the 7285 unit mount arm created
by the freestanding unit is 40 ft-lbs
(54 N·m).

Specifications are subject to change without notice.

Identification of Symbols

Symbol	Description
	Recognized by Underwriters Laboratories Inc. with respect to electric shock, fire and mechanical hazards only in accordance with UL 60601-1 (2601-1) and under mutual recognition agreement with CAN/CSA C22.2, No. 601.1.
	Classified by Underwriters Laboratories Inc. with respect to electric shock, fire and mechanical hazards only in accordance with UL 60601-1 (2601-1) and under mutual recognition agreement with CAN/CSA C22.2, No. 601.1.
	UL listed to UL 61010A-1, BS EN 61010-2-010 and Canadian (CAN/CSA C22.2, No. 1010.1-92) safety standards.
	Conforms to applicable European Directives (refer to Declaration of Conformity).
	Protective earth (ground).
	Functional earth (ground).
	Attention, consult accompanying documents. No user serviceable parts. Attention, line voltage. Only licensed electrician should remove cover.
	Type B applied part.
	Class II equipment.
	Caution: Metal surfaces can be hot during and following the dry cycle.

Classification of Equipment (60601-1)

Type/Mode	Classification
Types of shock protection	CLASS I EQUIPMENT: Dental chairs, dental lights, and power supplies CLASS II EQUIPMENT: Chair, wall, and cart-mounted delivery systems
Degree of shock protection	TYPE B APPLIED PART: Delivery systems only
Degree of protection against water ingress	ORDINARY EQUIPMENT: All products
Mode of operation	CONTINUOUS OPERATION: All models except dental chairs CONTINUOUS OPERATION WITH INTERMITTENT LOADING: Dental chairs - 5% duty cycle
Flammable Gasses:	Not suitable for use in the presence of a flammable anesthetic mixture with air, oxygen, or nitrous oxide, where such gasses may accumulate in concentration (closed space).

Electrical Rating

Type	Specification
Volts	100/110-120/220-240 VAC
Frequency	50-60 Hz
Current	As configured and specified in equipment manual (products labeled 15A or greater require dedicated circuit, identified in distribution panel).

Environmental Specifications

Temperature/Humidity	Specification
Storage/Transportation Temperature:	-40°C to 70°C (-40°F to 158°F) - Relative humidity: 80% for up to 31°C, decreasing linearly to 50% at 40°C.
Operating Temperature:	10°C to 40°C (40°F to 104°F) - Relative humidity: 80% for up to 31°C, decreasing linearly to 50% at 40°C.
Indoor Use:	Altitude up to 2,000M (6,563 ft.), installation category II, pollution degree 2. (UL 61010A-1 and CAN/CSA C22.2, No. 1010.1-92 only)

Notes





USA and Canada
2601 Crestview Drive
Newberg, Oregon 97132 USA
Phone: 1-800-547-1883
1-503-538-7478
Fax: 1-503-538-0276
www.a-dec.com

International
Phone: 1-503-538-9471
Fax: 1-503-538-5911

Distribution Centers

A-dec Australia
41-43 Bowden Street
Alexandria, NSW 2015, Australia
Phone: 61-(0)2-9699 4600
Fax: 61-(0)2-9699 4700
www.a-dec.com.au

EU Authorized Representative

A-dec United Kingdom
Austin House
11 Liberty Way
Nuneaton, Warwickshire
England CV11 6RZ
Phone: 0800-ADEC-UK (2332-85) Within UK
44 24 7635 0901 Outside UK
Fax: 44 24 7634 5106



Copyright 2006 A-dec Inc.
All rights reserved.