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Installation Guide

A-dec 371L/571L Dental Light on an A-dec 200 Dental Chair

Before You Begin



WARNING Failure to turn off or disconnect the power before you begin this procedure can lead to product damage and result in serious injury or death.

ATTENTION Circuit boards are sensitive to static electricity. Electrostatic Discharge (ESD) precautions are required when touching a circuit board or making connections to or from the circuit board. Circuit boards should be installed only by an electrician or qualified service person.

CAUTION When removing or replacing covers, take care not to damage any wiring or tubing. Verify that the covers are secure after replacing them.

1. Turn off the power to the system before you begin the installation.

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Install the Light

NOTE The instructions in this installation guide apply equally to both the 371L and 571L dental lights, except where noted.

Install the Dental Light Components

1. Loosen the four thumbscrews to remove the support center covers.



2. Insert and fully seat the bearing in the support center post.
3. Place the trim cover on top of the bearing.
4. Route the wiring down into the support center post.
5. Insert the dental light post.
6. Route the wiring out of the post into the support center.



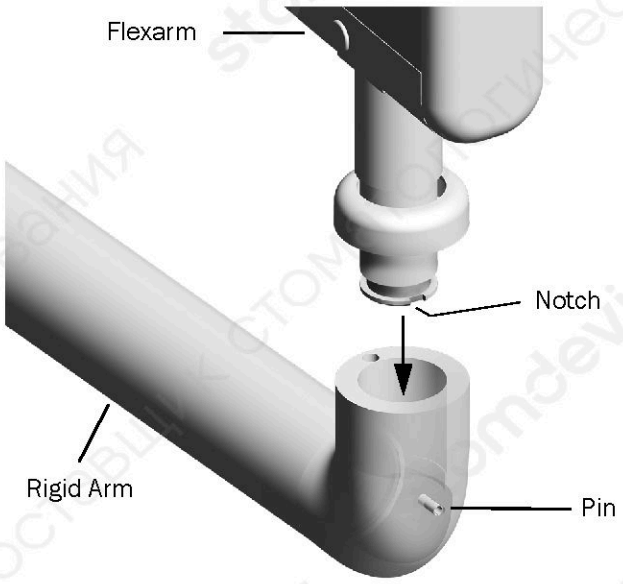
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Install the Flexarm

1. Align the flexarm over the rigid arm while ensuring that the notch in the flexarm post lines up with the pin in the rigid arm.
2. Install the flexarm post into the rigid arm.





3. Rotate the light so that it is in the working position.



4. Lift the trim ring.
5. Insert the stop pin.



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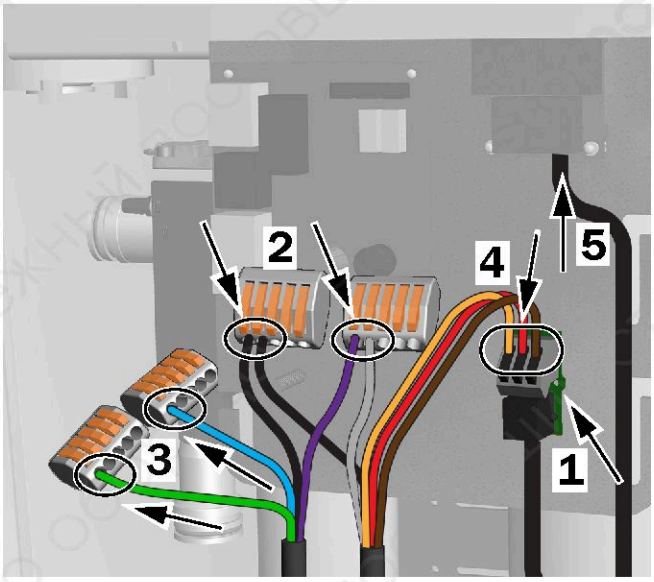
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Connect the Electrical Wires and Data Line

371L With Touchpad Functionality and 571L

1. Peel off the protective paper from the adaptor board. Attach the adaptor board to the support center frame.
2. Connect the light cable's black wire to the WAGO® connector with the black wire. Connect the light cable's gray wire to the WAGO connector with the purple wire.
3. Cap the blue wire and the green wire with WAGO connectors.
4. Connect the wires to the positions on the adaptor board as labeled: brown to BRN, red to RED, and orange to ORN.
5. Connect the data line from the adaptor board to a data port.
6. Coil and secure the excess cable.

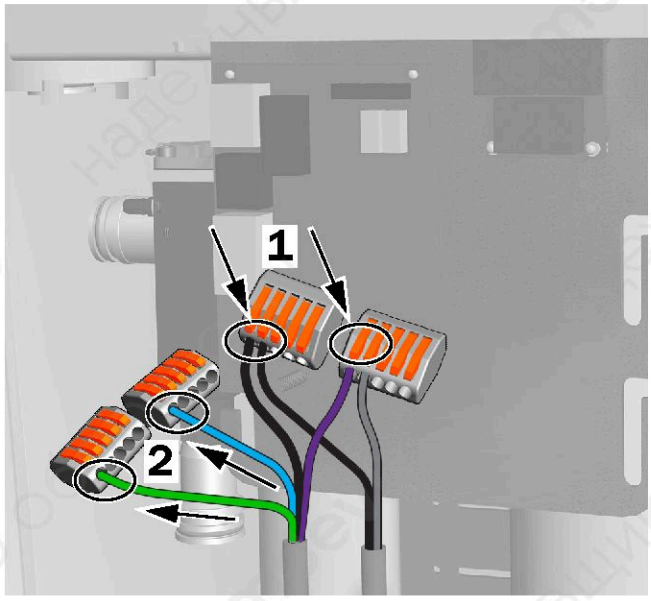
Connections for 371L with Touchpad Functionality and 571L



371L Without Touchpad Functionality

1. Connect the light cable's black wire to the WAGO connector with the black wire. Connect the light cable's gray wire to the WAGO connector with the purple wire.
2. Cap the blue wire and the green wire with WAGO connectors.
3. Coil and secure the excess cable.

Connections for 371L without Touchpad Functionality



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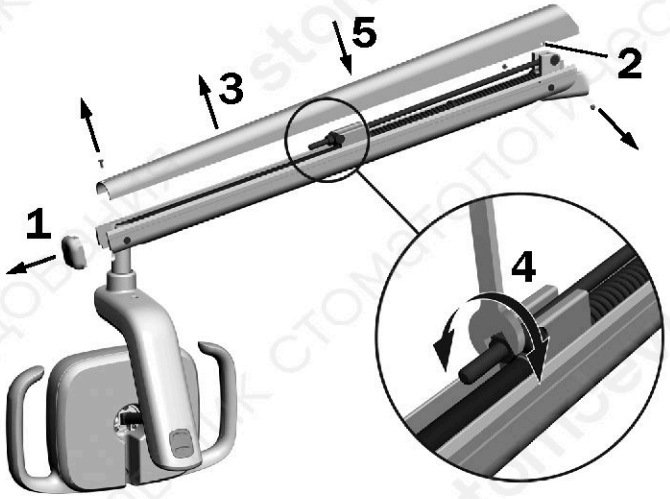
Prepare and Adjust the Light

Adjust the Dental Light Flexarm Counterbalance

Recommended Tools

- Phillips head screwdriver
- 5/64" hex key
- 1/2" combination wrench

1. Remove the end cap.
2. Remove the three screws that secure the cover.
3. Remove the cover.
4. Adjust the nut on the end of the spring.
   If the dental light drifts up, turn the nut counterclockwise.
   If the dental light drifts down, turn the nut clockwise.
5. Set the cover back onto the flexarm (but do not reattach it yet). Check for drift.
6. Repeat steps 4 and 5 until drift is eliminated.



NOTE An optional travel stop limit kit (p/n 90.1044.00) can be installed to limit the upward and downward motion of the flexarm.

Adjust the Rotation Tension Settings

Recommended Tool

- 7/64" hex key

Adjust the Vertical Tension



Remove the Driver Housing Cover

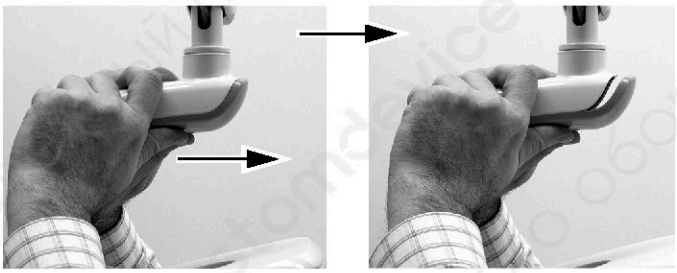
1. Remove the two screws securing the driver housing cover.



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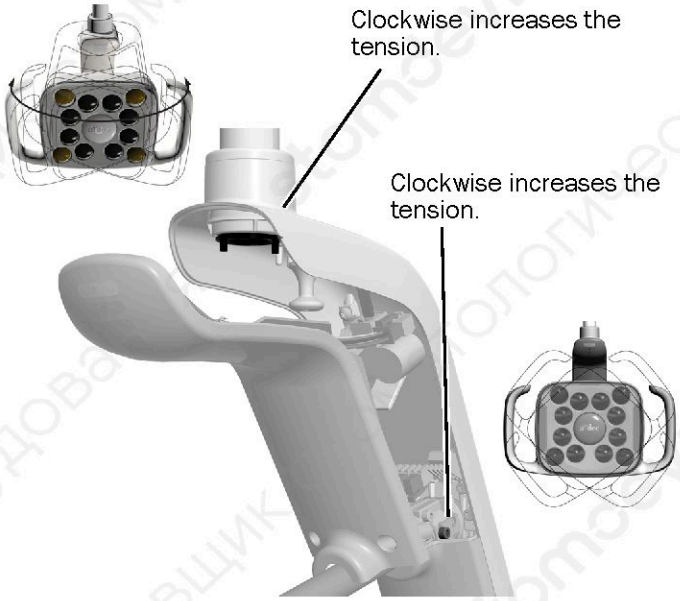
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2. Grasp the driver housing and use your thumbs to push the driver housing cover away from the driver housing.



Adjust the Horizontal and Diagonal Tension

1. To adjust horizontal tension, rotate the friction adjustment.
2. To adjust diagonal tension, turn the setscrew. Clockwise increases the tension.



Level the Light

See the *A-dec 200 Installation Guide* (86.0004.00) for instructions on leveling the system and light.

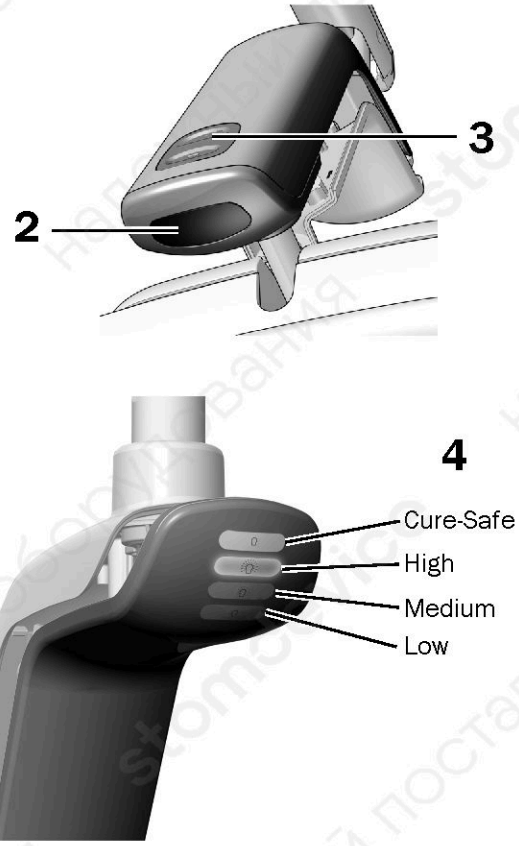
Test the Light

Perform the test procedure appropriate to your light:

A-dec 571L Procedure 6
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Test the Dental Light Using the Touchpad 7
Install the Driver Housing Cover 8

A-dec 571L Procedure

1. Turn on the system.
2. Move your hand within 3" (76 mm) of the touchless on/off sensor to turn on the light.
3. Press the buttons to test the light in each mode.
4. For each mode, verify that the correct light on the driver housing cover is illuminated.
5. If it doesn't work properly, check the wire connections.



Next Step Continue to "Test the Dental Light Using the Touchpad" on page 7.

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A-dec 371L Procedure

1. Turn on the power to the system.
2. **371L Dental Light with Touchpad Functionality:** Press the power button several times to verify the light cycles between off and on. Leave the light off.

   371L Dental Light without Touchpad Functionality: Press the power button repeatedly to verify the light cycles between Off, High, and Composite/low intensity modes.

If it doesn't work properly, check the wire connections.



NOTE If you installed a dental light without touchpad functionality and you inadvertently press the dental light button on the touchpad, the indicator light will turn on. To turn off the indicator light, press and hold the dental light button.

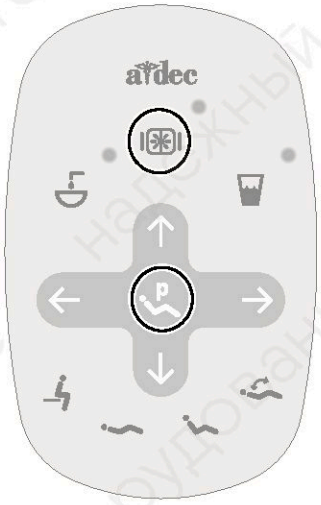
Test the Dental Light Using the Touchpad

1. Turn on the power to the system.
2. To verify the light turns on and off, and toggles between intensity modes (371L with touchpad functionality: high and composite/low; 571L: high, medium, and low, plus cure-safe mode), repeatedly press and release . To turn off the light, press and hold the button.

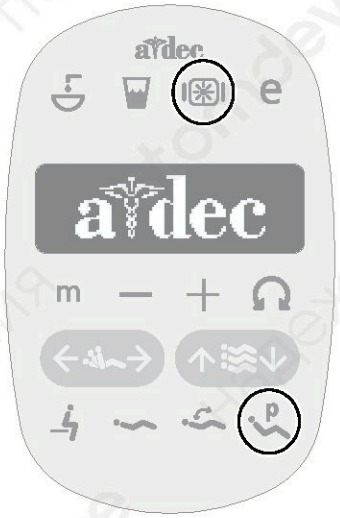
NOTE When the 371L is in the composite/low mode or 571L is in the cure-safe mode, the light indicator on the touchpad flashes.

3. To disable the auto on/off feature, press and hold and at the same time for three seconds. One beep indicates that the auto on/off function is off. To re-enable, repeat this step. Three beeps indicate that the auto on/off feature is activated.

Standard Touchpad



Deluxe Touchpad



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Install the Driver Housing Cover

CAUTION When removing or replacing covers, take care not to damage any wiring. Verify that the covers are secure after replacing them.

1. Position the driver housing cover so the keyhole fits around the post; then push the driver housing cover into position with your palm.



2. Use two screws to secure the cover.



Regulatory Information

For required regulatory information and the A-dec warranty, see the *Regulatory Information, Specifications, and Warranty* document (p/n 86.0221.00) available in the Resource Center at www.a-dec.com.

Product Models and Versions Covered in this Document

Models	Versions	Description
371L	A	Dental Light
571L	A	Dental Light
200	A	Dental Chair

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