

# A-dec Dental Lights and Monitor Mounts Service Guide

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## Regulatory Information

Regulatory information is provided with A-dec equipment as mandated by agency requirements. This information is delivered in the equipment's *Instructions for Use* or the separate *Regulatory Information and Specifications* document. If you need this information, please go to the Document Library at [www.a-dec.com](http://www.a-dec.com).

## Product Service

For service information, contact your local authorized A-dec dealer. To find your local dealer, go to [www.a-dec.com](http://www.a-dec.com).

## Service Reference

This document is a companion to the *A-dec Dental Lights and Monitor Mounts Service Reference* (p/n 86.0328.00). The Service Reference contains flow diagrams and illustrated parts breakdown for lights and monitor mounts. Circuit board component information is available in both this document and the Service Reference.

A - DEC DENTAL LIGHTS AND MONITOR MOUNTS  
SERVICE GUIDE

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# INTRODUCTION

This guide provides service information for the A-dec dental lights and monitor mounts. Users of this guide should understand basic operation and maintenance of dental and medical equipment.



**CAUTION** Possible injury or equipment damage. Service to be performed by trained personnel only.

## Regulatory Symbols

The following regulatory symbols may appear throughout the document.



**NOTE** Notes indicate additional information, and when it is important that instructions are followed.



**TIP** Tips indicate tips or tricks to make installation, use, or maintenance easier.



**WARNING** Warning indicates potential severe injury or death if instructions are not followed properly.



**CAUTION** Caution indicates when failure to follow instructions could result in damage to product or minor injury.



**DANGER** Danger indicates warnings of dangerous voltage and of certain electrical shock.



**BIOHAZARD** Biohazard indicates potential infection if instructions are not properly followed.



**IMPORTANT** Important indicates areas in which to refer to or use specific instructions.

# Get Support

## Customer Service

For questions not addressed in this document, contact A-dec Customer Service using contact information for your region.

### U.S. and Canada

A-dec Inc.  
2601 Crestview Drive  
Newberg, OR 97132 USA  
Tel: 1.800.547.1883 within US and Canada  
Tel: 1.503.538.7478 outside US and Canada  
[www.a-dec.com](http://www.a-dec.com)  
[www.a-dec.biz](http://www.a-dec.biz)

### United Kingdom

A-dec United Kingdom  
Austin House, 11 Liberty Way  
Nuneaton, Warwickshire CV11 6RZ  
England  
Tel: 0800 ADECUK (233285) within UK  
Tel: 44 24 7635 0901 outside UK  
[www.a-dec.co.uk](http://www.a-dec.co.uk)

### Australia

A-dec Australia  
Unit 8, 5-9 Ricketty St.  
Mascot, NSW 2020  
Australia  
Tel: (02) 8332 4000  
1.800.225.010  
[www.a-dec.com.au](http://www.a-dec.com.au)

### Web Contact

Partner Resources websites: [www.a-dec.biz](http://www.a-dec.biz).

## Other Sources of Information

### Dental Lights and Monitor Mounts Service Reference

For Dental Lights and Monitor Mounts illustrated parts breakdown content, see the *A-dec Dental Lights and Monitor Mounts Service Reference* (p/n 86.0328.00).

### Genuine A-dec Parts Catalog

The *Genuine A-dec Service Parts Catalog*, p/n 85.5000.00, provides part number and ordering information for A-dec serviceable parts. This catalog details service parts for current products and products which are no longer manufactured but still supported. Refer to this catalog for additional details on parts found in the service guide.

### A-dec Illustrated Parts Breakdown

The *A-dec Illustrated Parts Breakdown* (IPB), p/n 85.0851.00, contains illustrated, exploded views of assemblies with part numbers and descriptions for associated parts for products introduced before 2004.

### Electronic Documentation

The latest versions of A-dec documents are available as electronic documents (PDF files) on the A-dec website ([www.a-dec.com](http://www.a-dec.com)). Documents (including installation instructions, service guides, and other technical information) can be viewed or downloaded. On the website, select Document Library in the upper-right corner of the page. Check this location for current detail on products and technical information.

## Serial and Model Numbers

Product serial and model number information can be found on the serial/ model number labels. When contacting customer service, the serial number helps identify the product and when it was manufactured.

The first letter of the serial number indicates the month the product was manufactured. For products manufactured *before* June 2011, the first digit of the serial number indicates the year of manufacture (for example, L0 = December 2010). For products manufactured June 2011 and *after*, the first two digits indicate the year of manufacture (for example, 11F = June 2011).

Use the following table and label examples to reference how to identify serial/ model number information.

### Month Identification Table

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

### Serial Number Label Examples (Dental Light Examples Shown)



Products Manufactured  
*before* June 2011



Products Manufactured  
June 2011 and *after*





## A-DEC DENTAL LIGHTS

This section provides service, usage, adjustments, and maintenance content for A-dec dental lights.

**A-dec LED Dental Light (570L – 577L)**



**A-dec 371/372 Dental Light (Halogen 2-Axis)**



**A-dec 571/572 and 6300 Dental Light (Halogen3-Axis)**



## Dental Light Specifications



**NOTE** Specifications are subject to change without notice. Some requirements may vary from country to country. For more information, contact your authorized A-dec dealer.

A-dec LED Dental Light (570L - 577L)



A-dec 571/572 and 6300 Dental Light  
(Halogen 3-Axis)



A-dec 371/372 Dental Light  
(Halogen2-Axis)



Input Voltage	15 watts maximum *	100 / 120 / 240 VAC	100 / 110-120 / 220 - 240 VAC
Focal Range	16" - 30" (400 mm - 750 mm)	18" - 31" (457 - 787 mm)	12" - 27" (305" - 686 mm)
Bulb	n/a	Quartz Xenon Halogen, single-end prongs	Quartz Xenon Halogen, single-end prongs
Bulb Rating	LED: White HBLED, 88-92 CRI	17V / 95W	17V / 95W
Color temperature	White 5000 Kelvin	5,000 Kelvin	5,000 Kelvin
Light pattern	5.7" x 3.8" at 27.6" (145 mm x 95 mm at 700 mm)	3.3" x 6.3" at 27.6" (85 mm x 160 mm at 700 mm)	3.9" x 6.7" at 27.6" (99 mm x 170 mm at 700 mm)
Nominal Light Intensity	** Cure-safe Mode: 25,000 lux (2323 fc) High: 30,000 lux (2787 fc) Medium: 25,000 lux (2323 fc) Low: 15,000 lux (1394 fc)	High: 24,000 lux (2230 fc) Medium: 20,000 lux (1858 fc) Low: 8,000 lux (743 fc)	Composite: 8,000 lux (743 fc) High: 24,000 lux (2230 fc)
Heat Output (BTU per Hour)	24	325	325

\* For electrical specifications, identification of symbols, and other regulatory requirements, refer to the Regulatory Information and Specifications manual (p/n 86.0221.00) included with the dental equipment

\*\* The LED cure-safe mode provides effective illumination while preventing the premature curing of photo-initiated composites, sealants, and adhesives. This mode uses a medium intensity light setting and a non-reactive wavelength of light.

# Dental Light Mounting Locations



Cabinet-Mounted  
(LED and 6300)



Ceiling-Mounted  
(LED and 6300)



Track-Mounted  
(LED and 6300)



Wall-Mounted  
(LED and 6300)



Radius Style (LED, 371/372, 571/572, 6300)  
Dental Light on A-dec 500 Chair Support Mount



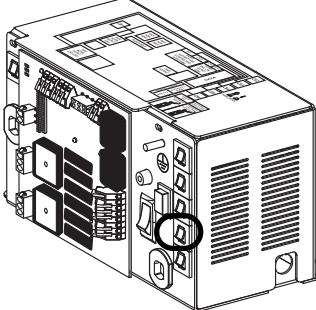
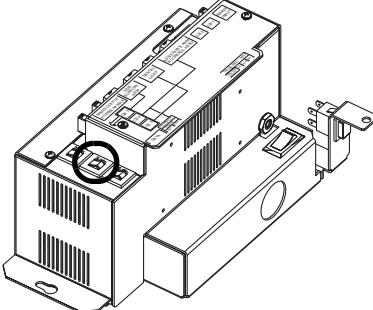
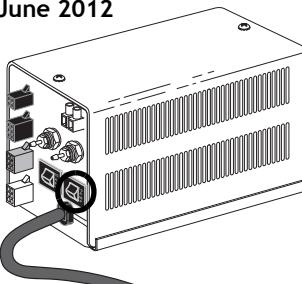
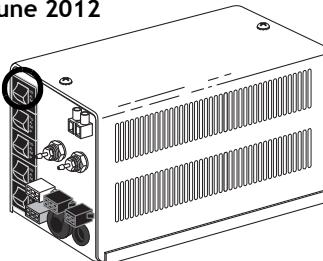
LED, 371/372, 571/572 Dental Light on  
A-dec 300 Chair and 2" Post Mount Support Mount

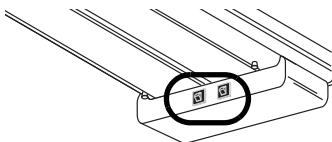
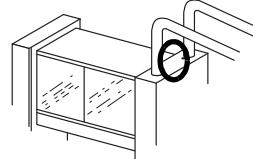
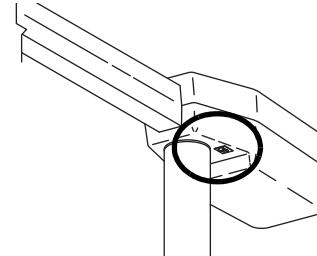
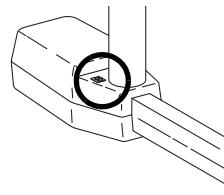
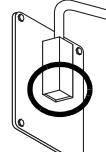


LED, 371/372, 571/572 Dental Light on  
A-dec 500 Chair Support Side Mount

## Dental Light Circuit Breaker Locations

A circuit breaker will interrupt the flow of electricity under abnormal conditions. If the circuit breaker should trip, inspect the wiring to ensure there are no shorts, and reset by pushing the circuit breaker. If the circuit breaker for the dental light is located on the power supply, its location varies by chair. For non-chair based lights, the operatory circuit breaker is used.

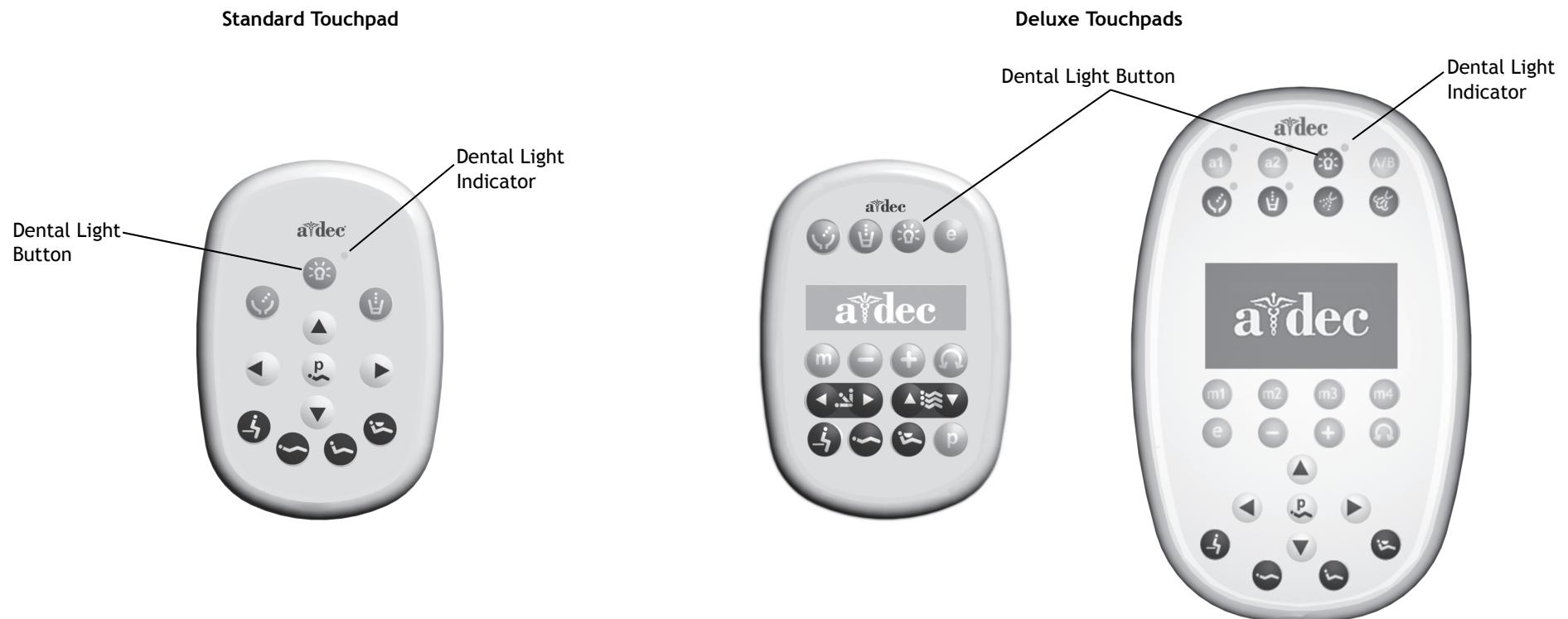
Chair Model/ Location	Circuit Breaker Location
A-dec 311	
Motor Pump	
A-dec 511	
Motor Pump	
Cascade,® Decade,® Performer,® early model A-dec chairs	Before June 2012
Utility floor box	
	Effective June 2012
	

Mounting Location	Circuit Breaker Location
Track Mount	
Cabinet Mount	
Post Mount: Cascade,® Decade,® Performer,® early model A-dec chairs	
Ceiling Mount	
Wall Mount	

# Dental Light Operations

## Dental Light Touchpad Controls

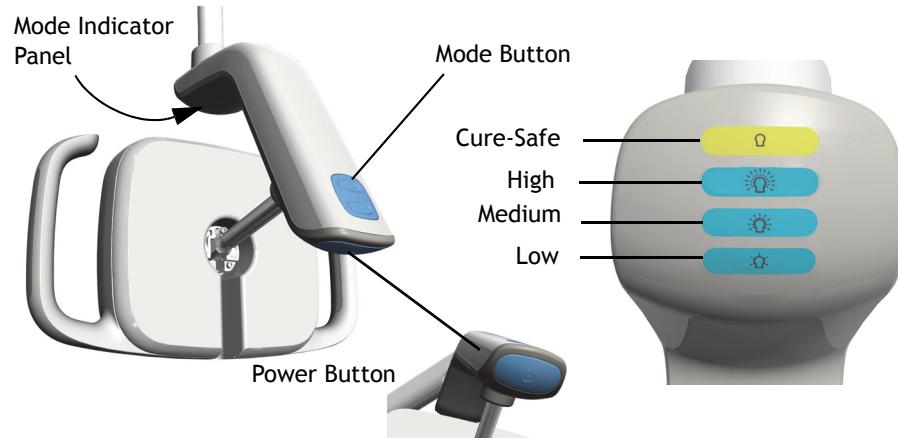
Dental light can be operated from the touchpad on the A-dec 300 and 500 systems. Press the light button on the touchpad to turn on the light, and press and hold the light button to turn the light off.



## Power and Intensity Settings

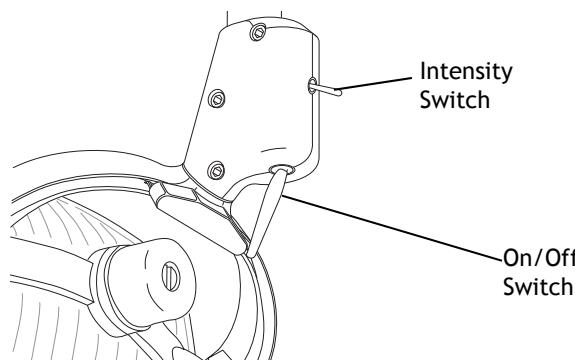
### A-dec LED Dental Light Manual On/Off and Intensity

The mode button is used to select the intensity level. The illuminated indicator shows the selected mode. The dental light retains the selected mode unless the entire system is turned off, which resets the light to medium intensity.



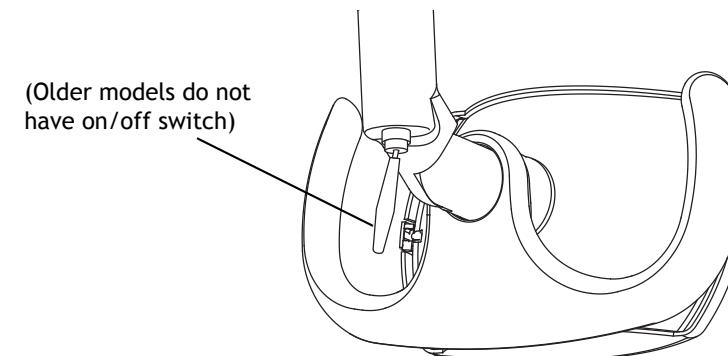
### A-dec 571/572 and 6300 Dental Light (Halogen 3-Axis) Manual On/Off and Intensity

The on/off switch is used to activate the light. The intensity switch toggles between this light's three intensity settings (composite, high, and medium). The dental light button on the touchpad works as a three-way switch with the on/off switch on the light.



### A-dec 371/372 Dental Light (Halogen 2-Axis) Manual On/Off and Intensity

The on/off switch is used to activate the light and to toggle between intensities. With a touchpad, press the dental light button to activate the light and to toggle between intensity settings.



**NOTE** For the A-dec 371/372 Dental Light, medium and composite intensity settings are available if preferred over high and composite. Contact A-dec Customer Service for instructions.

## Halogen Dental Light Intensity Switch Voltage Measurements

The following are the voltage measurements for Halogen lights. If the switch needs to be replaced, the replacement kit is p/n 90.1039.00.

Position	Voltage	Wire
Open	5 VDC	White
Closed	0 VDC	White



**NOTE** All DC voltage measurements are taken with the black multimeter lead on the black/white wire.

Refer to the *A-dec Dental Lights and Monitor Mounts Service Reference* (p/n 86.0328.00) for flow diagrams and wiring information.

## Auto On/Off Function

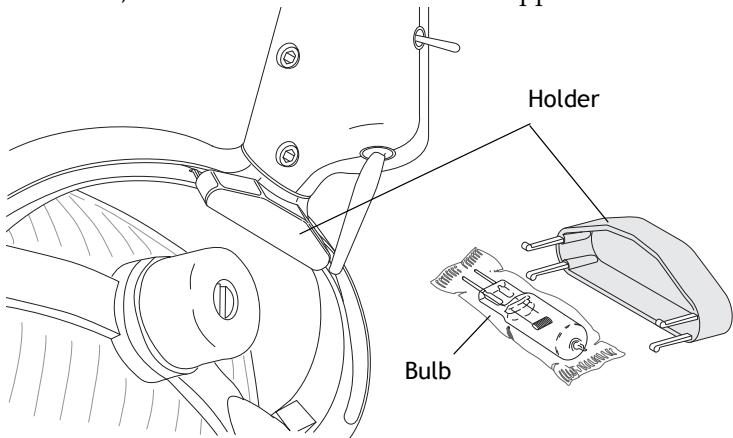
All of the dental lights turn on when the chair back reaches a preset operating position. When the chair back moves out of the operating position, the light automatically turns off.

- To turn off the auto on/off feature, press and hold the program and dental light buttons for three seconds at the same time. One beep confirms the feature is off.
- To turn on the auto on/off feature, press and hold the program and dental light buttons for three seconds at the same time. Three beeps confirm the feature is on.

## Dental Light Bulb Replacement

### A-dec 571/572 and 6300 Dental Light (Halogen3-Axis)

1. Turn off the light, and allow the light to cool.
2. Pull the plastic holder from the light yoke. Remove the bulb from the holder, but do not remove the outer wrapper.



**CAUTION** Do not remove the outer wrapper when handling the new bulb. Finger oils can affect light performance and severely limit bulb life. If you should inadvertently touch the bulb, gently clean it with cotton dampened with isopropyl or ethyl alcohol.



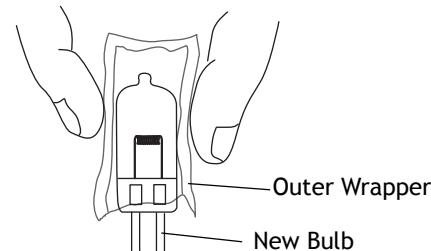
**WARNING** To avoid burning your fingers, allow the bulb to cool before removing. Never operate the light with the light shield removed. The clear shield minimizes UV light output. The light shield is also protection in the unlikely event that the bulb shatters.

3. Release the toggles on the light shield and set the shield aside.
4. Use a gauze pad or cloth to protect fingers. Carefully pull the old bulb from its socket and discard.

5. Hold the new bulb in its outer wrapper with the pins facing away, and carefully insert it in the socket. The bulb base is fragile and can break under excess pressure.



**NOTE** Part of the pins are still visible when the bulb is fully inserted.



6. Remove and discard the outer wrapper, reinstall the light shield, and secure with the toggles.



**CAUTION** Do not attempt to install the light shield if it has a broken tab. Contact your authorized A-dec dealer for a replacement shield and install before operating the light.

7. Verify the operation of the light by turning it on and operating it at each intensity setting.



**CAUTION** Use of a halogen bulb other than A-dec p/n 041.709.00 (Philips 14623, G 6.35, 17V, 95W) may result in damage to the bulb socket.

8. Reorder the bulb, p/n 041.709.00.

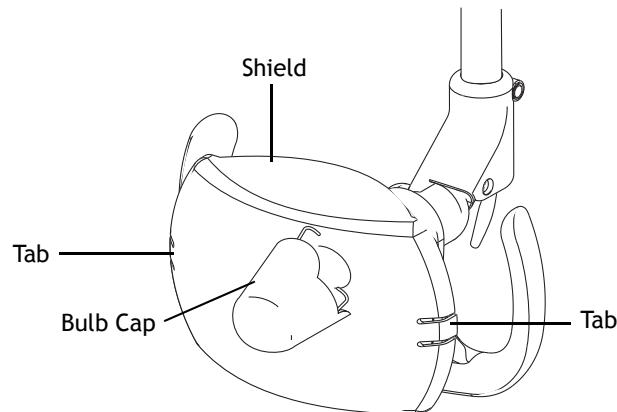
## A-dec 371/372 Dental Light (Halogen 2-Axis)

Follow these steps when replacing the bulb.



**WARNING** To avoid burning your fingers, allow the light shield to cool before removing. Never operate the dental light with the light shield removed. The light shield contains UV blocking additives. The light shield is also your protection in the unlikely event that the bulb shatters.

1. Turn off the light and allow it to cool.
2. Gently pull out on the light shield tabs, then pull the edges of the shield toward you. Set the light shield aside.



3. Remove the bulb cap by rotating it counterclockwise. Set the bulb cap aside.



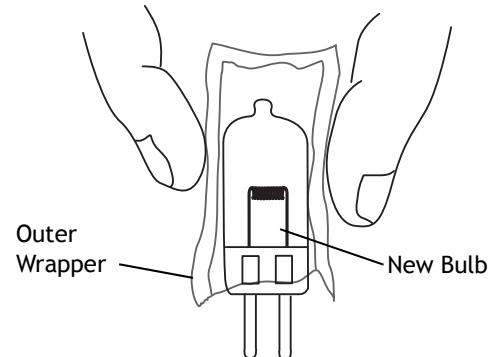
**CAUTION** Take care when handling the bulb. The bulb base is fragile and can break under excessive pressure.

4. Using a gauze pad or cloth to protect your fingers, carefully pull the old bulb from its socket. Discard the bulb.



**CAUTION** Do not remove the outer wrapper when handling the new bulb. Finger oils can affect light performance and severely limit bulb life. If you should inadvertently touch the bulb, gently clean it with cotton dampened with isopropyl or ethyl alcohol.

5. Holding the new bulb in its outer wrapper with the pins away from you, carefully insert the bulb pins into the socket. A small section of each pin is still visible when the bulb is fully seated.



6. Remove and discard the outer wrapper, then reinstall the bulb cap and light shield.



**CAUTION** Do not attempt to install the light shield if it has a broken tab. Contact your authorized A-dec dealer for replacement shield and install before operating the light.

7. Verify the operation of the light by turning it on and operating it at each intensity setting.
8. Reorder the bulb, p/n 041.709.00.

## Dental Light Shield Cleaning

### Halogen Dental Light Shield

1. Turn off the dental light.



**WARNING** To avoid personal injury, be sure that the light has cooled before cleaning it.

2. Release the toggles on either side of the light to remove the light shield.
3. To clean the light shield use a small amount of non-abrasive liquid soap and warm water to wash it. Rinse and dry with a non-abrasive, lint free cloth.

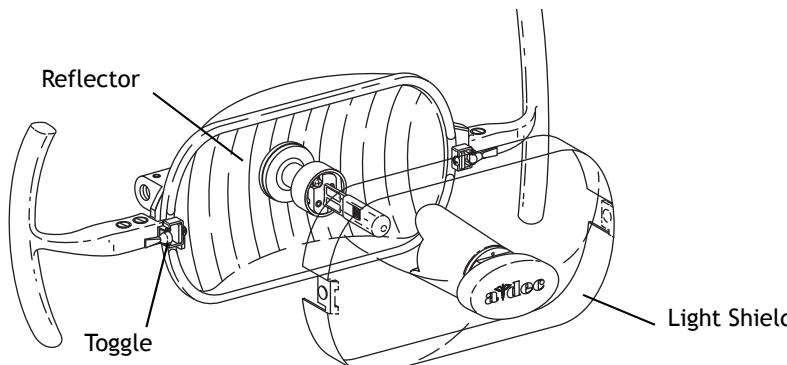
If necessary, soak the pad or cloth with water or with a diluted solution of mild dish washing liquid before cleaning. Make certain no residue remains on the surface. Do not use abrasives or chlorine (such as household bleach) on the surface of the reflector. These can damage or discolor the reflector surface.



**CAUTION** Do not rub heavily, clean the light shield when it is hot, or soak the shield assembly in cleaning solution. Doing so may damage the shield assembly components. Clean the light shield only as instructed.



**CAUTION** Do not attempt to install the light shield if it has a broken tab. Contact your authorized A-dec dealer for a replacement shield and install before operating the light.



### LED Dental Light Shield

A-dec recommends barriers to protect the dental light shield. In the event that the light shield needs to be cleaned, carefully clean the light shield in place using a soft cotton cloth with non-abrasive soap and water.

Do not remove the shield unless absolutely necessary. The shield is fitted with a gasket to keep dust and debris from entering the lens assembly. If liquid or dirt should bypass the gasket, the shield may be removed for cleaning.



**CAUTION** Only remove the shield if absolutely necessary. Use a flat-blade tool that won't damage the light housing. After removing the shield, do not touch or attempt to clean the multi-lens assembly or you may damage the components.

# Dental Light Adjustments

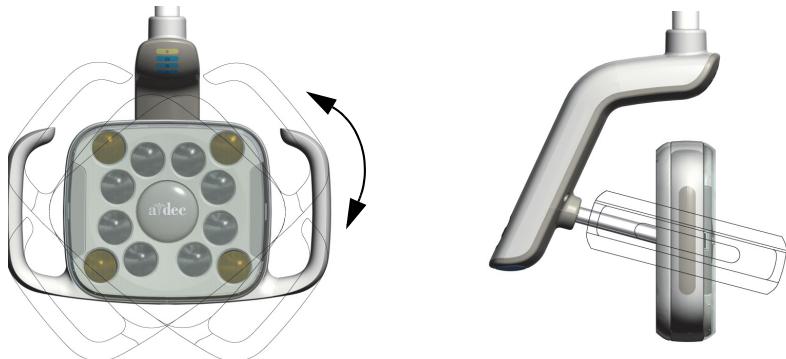
## A-dec LED Dental Light Rotation Adjustments



**CAUTION** 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.

### LED Light Range of Motion Adjustments

The LED light offers three axes of rotation.



### LED Light Forward Tilt Adjustment

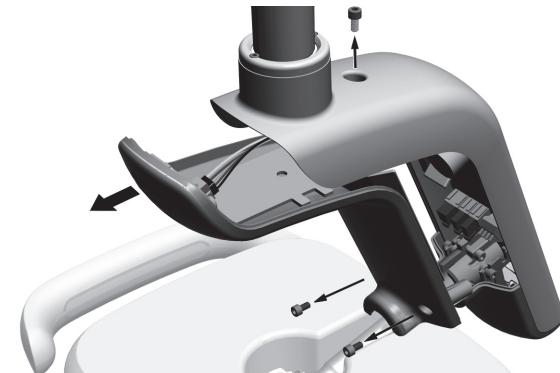
To adjust the forward tilt motion of the light head, use a 7/64" hex key to turn the tension screw clockwise to increase tension or counterclockwise to decrease tension.



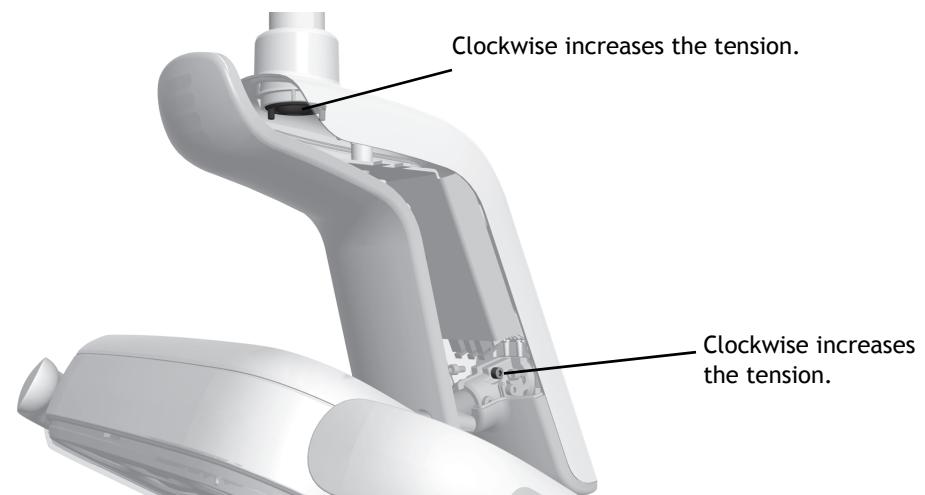
### LED Light Horizontal and Diagonal Rotation Adjustment

To adjust the horizontal and diagonal tension, remove the indicator cover.

1. Use a 7/64" hex key to remove the three screws in the indicator cover.



2. To adjust the friction, turn the locking nut clockwise to increase the tension.
3. To adjust the diagonal tension, turn the screw clockwise to increase the tension.

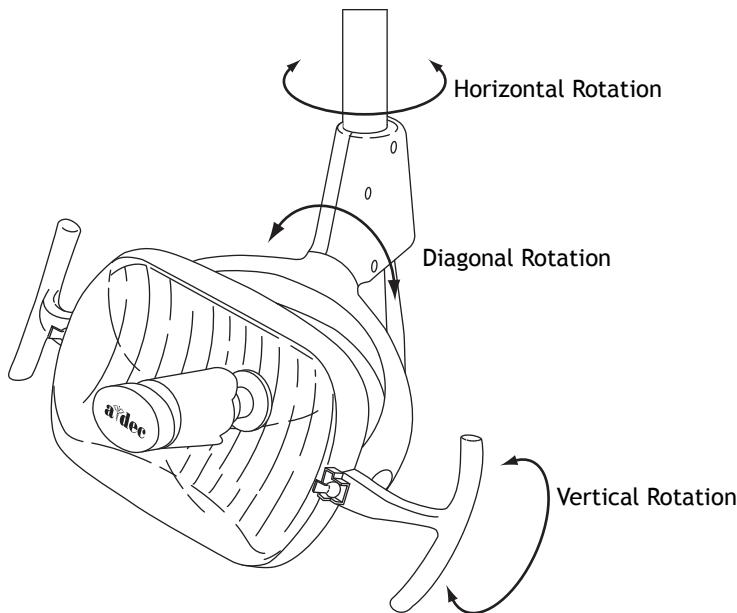


4. Use the three screws to install the indicator cover.

## A-dec 571/572 and 6300 Dental Light (Halogen 3-Axis) Rotation Adjustments

### 571/572/6300 Light Head Rotation

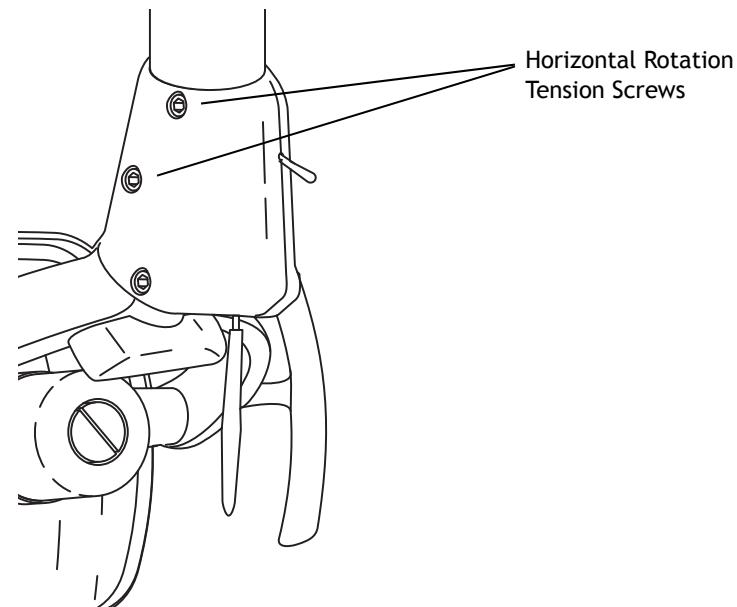
The light head needs adjusting if it is difficult to position, moves too easily, or drifts out of position.



### 571/572/6300 Horizontal Rotation

Use a hex key to make horizontal rotation adjustments, beginning with the top screw on both sides of the switch housing.

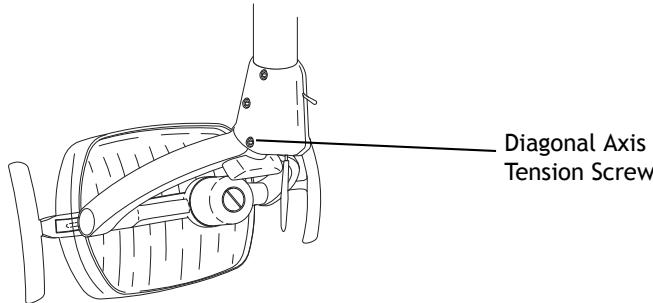
- Increase the tension by turning the screws clockwise.
- Loosen the tension by turning the screws counterclockwise.



## 571/572/6300 Diagonal Axis Rotation

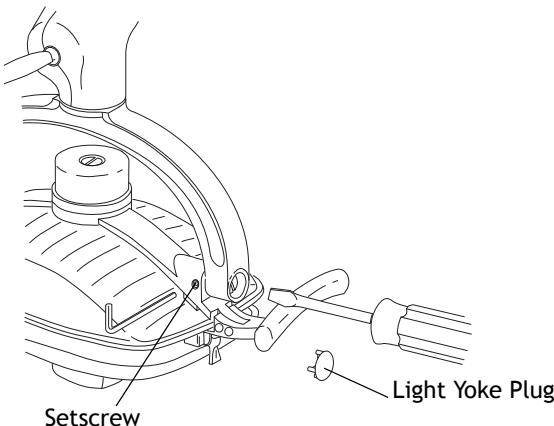
Adjust the screw at the bottom of the switch housing.

- Increase the tension by turning the screw clockwise.
- Loosen the tension by turning the screw counterclockwise
- To eliminate all movement in the diagonal axis, tighten the adjustment screw until it is tight.



## 571/572/6300 Vertical Rotation

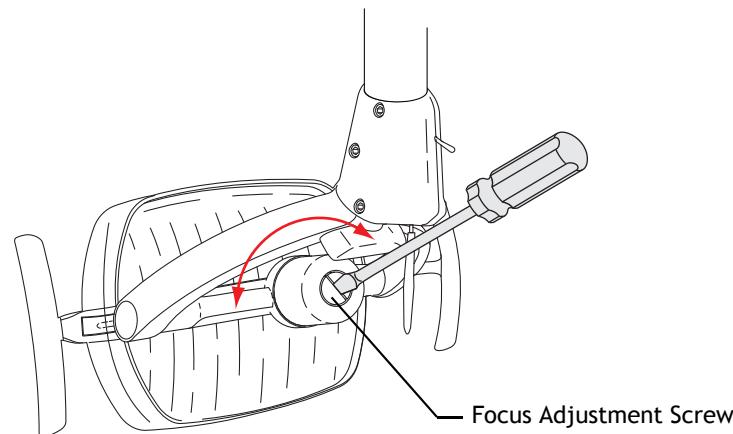
1. On one side of the light head, loosen the setscrew.
2. Remove the light yoke plug.



3. Use a large flat-blade screwdriver to turn the adjustment screw under the light yoke plug.
  - Increase the tension by turning the screw clockwise.
  - Loosen the tension by turning the screw counterclockwise.
4. Retighten the setscrew, and reinstall the light yoke plug.

## 571/572/6300 Focus

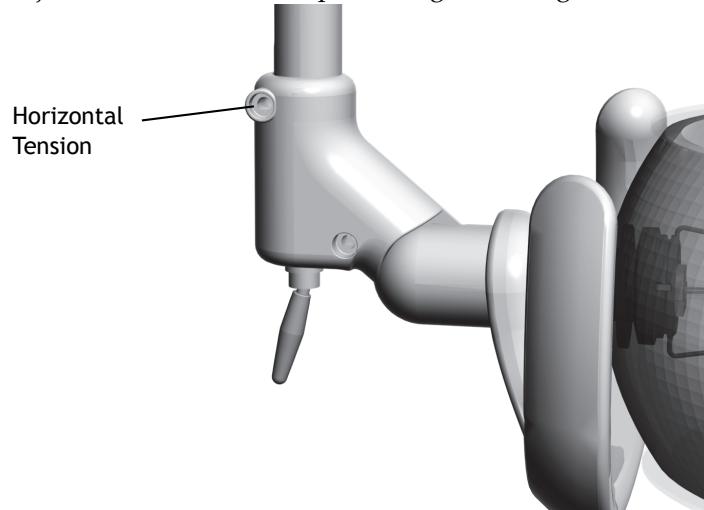
1. Place a white towel over the chair headrest to represent the oral cavity.
2. Position the light head at the distance normally used when working in the oral cavity (select a distance representative of most procedures).
3. Turn the light on.
4. Use a large screwdriver to turn the focus adjusting screw until the light is most uniform.



## A-dec 371/372 Dental Light (Halogen 2-Axis) Rotation Adjustments

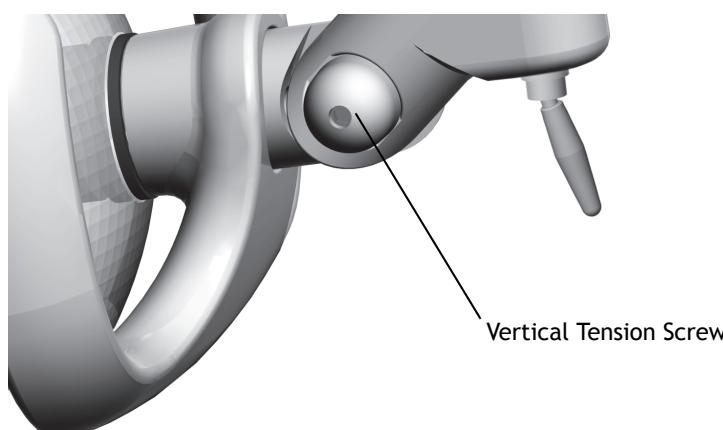
### 371/372 Horizontal Rotation

To adjust the horizontal rotation, use a 5/32" hex key to tighten or loosen the adjustment screw at the top of the light housing.



### 371/372 Vertical Rotation

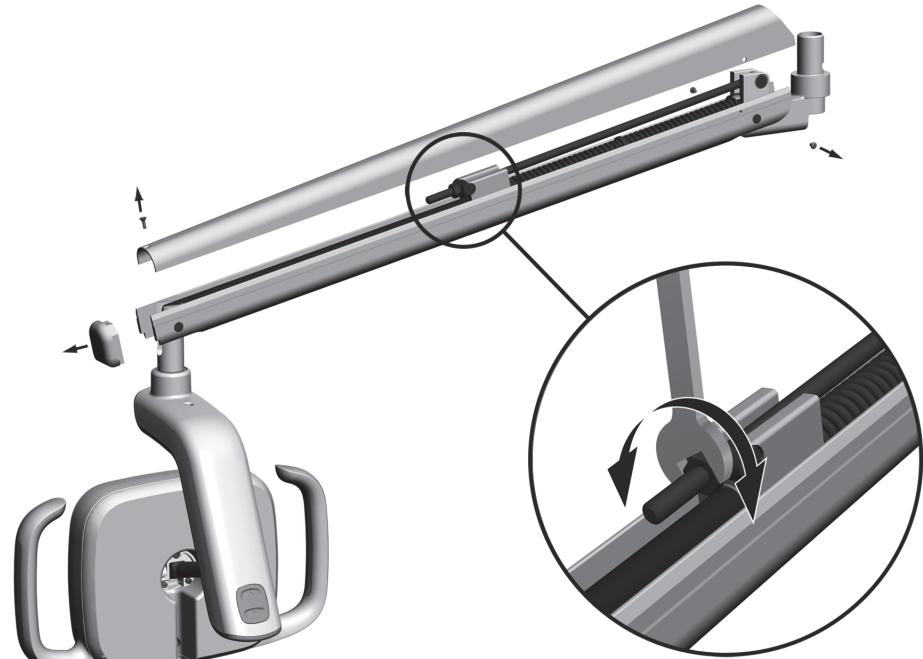
To adjust the vertical rotation, use a 3/16" hex key to tighten or loosen the vertical tension screw.



### Dental Light Flexarm Counterbalance Adjustment

To adjust the flexarm counterbalance:

1. Use a Phillips head screwdriver to remove the end caps.
2. Use a hex key to remove the two screws that secure the cover.
3. Remove the cover.
4. Use a 1/2" combination wrench to adjust the nut on the end of the spring.
  - o If the dental light drifts down, turn the nut clockwise.
  - o If the dental light drifts up, turn the nut counterclockwise.
5. Set the cover back onto the flexarm (but do not reattach) and check for drift.



# Dental Light Wiring and Power Connections

This section outlines the connections from the power source through switches and boards to the light head interior.

## A-dec LED Dental Light 570L - 577L

- A-dec LED Dental Light Circuit Board Components, page 24
- A-dec LED Dental Light (570L – 577L) Wiring, page 28



## A-dec 571/572 and 6300 Dental Light (Halogen 3-Axis)

- A-dec 571/572 and 6300 Dental Light (Halogen 3-Axis) Circuit Board Components, page 36
- A-dec 571/572 and 6300 Dental Light (Halogen 3-Axis) Wiring, page 40



## A-dec 371/372 Dental Light (Halogen 2-Axis)

- A-dec 371/372 Dental Light (Halogen 2-Axis) Circuit Board Components, page 46
- A-dec 371/372 Dental Light (Halogen 2-Axis) Wiring, page 52



## A-dec LED Dental Light Circuit Board Components

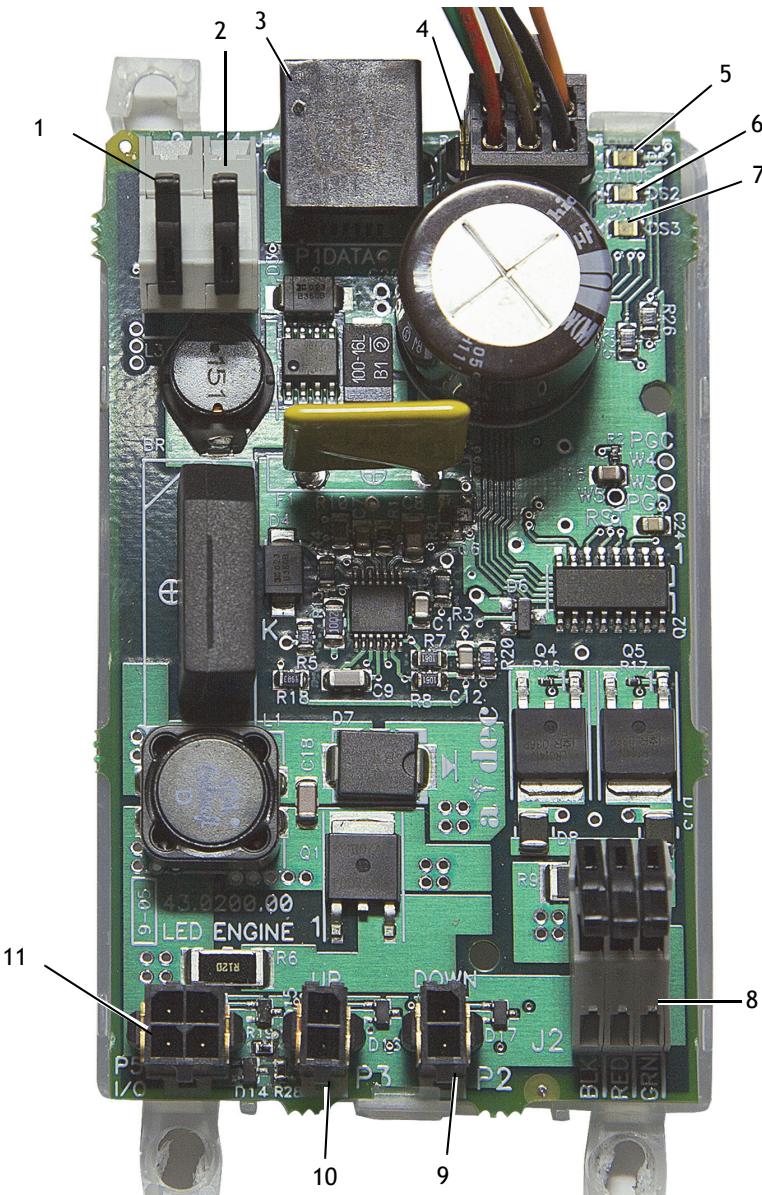
Part Number: 43.0200.00

Item	Description
1	J1 - 0- terminal strip input
2	J2 - 24- terminal strip input
3	P1 - Data port
4	P4 - LED indicator board output connector
5	DS1 - Power LED
6	DS2 - Status LED
7	DS3 - Data LED
8	J2 - LED source board terminal strip
9	P2 - Down intensity switch connector
10	P3 - Up intensity switch connector
11	P5 - On/Off switch connector



**CAUTION** 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.

### LED Driver Circuit Board



## LED Dental Light Circuit Board Identification

LED	Status	Description
Power LED	Off	No power, tripped circuit breaker, power supply turned off, no line voltage
	Green, steady	Power at terminal strip
Status LED	Off	System is not functioning, no power or circuit board has failed
	Green, steady	Normal operation
Data LED	Off	No DCS communication, not connected to the DCS, DCS has failed
	Green, steady	Detects active DCS
	Green, blinking	Valid DCS message

## LED Indicator Light Board

Light Mode	Indicator Board Status	Description	LED Array Board Status	Description
Off	Off	All indicator board LEDs off: device is disconnected, no power, or circuit board has failed	Off	All indicator board LEDs off: device is disconnected, no power, or circuit board has failed
Cure-safe	Off	Cure-safe mode is off	Off	Cure-safe mode is off
	Yellow steady	Cure-safe mode is on	Yellow steady	Cure-safe mode is on
	Location	Top of indicator board	Location	Four corners LEDs of array board
High	Off	High mode is off	Off	High mode is off
	Blue steady	High mode is on	White steady	High mode is on
	Location	Top blue indicator	Location	Eight inner LEDs of array board
Medium	Off	Medium mode is off	Off	Medium mode is off
	Blue steady	Medium mode is on	White steady	Medium mode is on
	Location	Middle blue indicator	Location	Eight inner LEDs of LED array board
Low	Off	Low mode is off	Off	Low mode is off
	Blue steady	Low mode is on	White steady	Low mode is on
	Location	bottom blue indicator	Location	Eight inner LEDs of array board

## LED Dental Light Indicator Light Circuit Board

Part Number: 43.0217.00

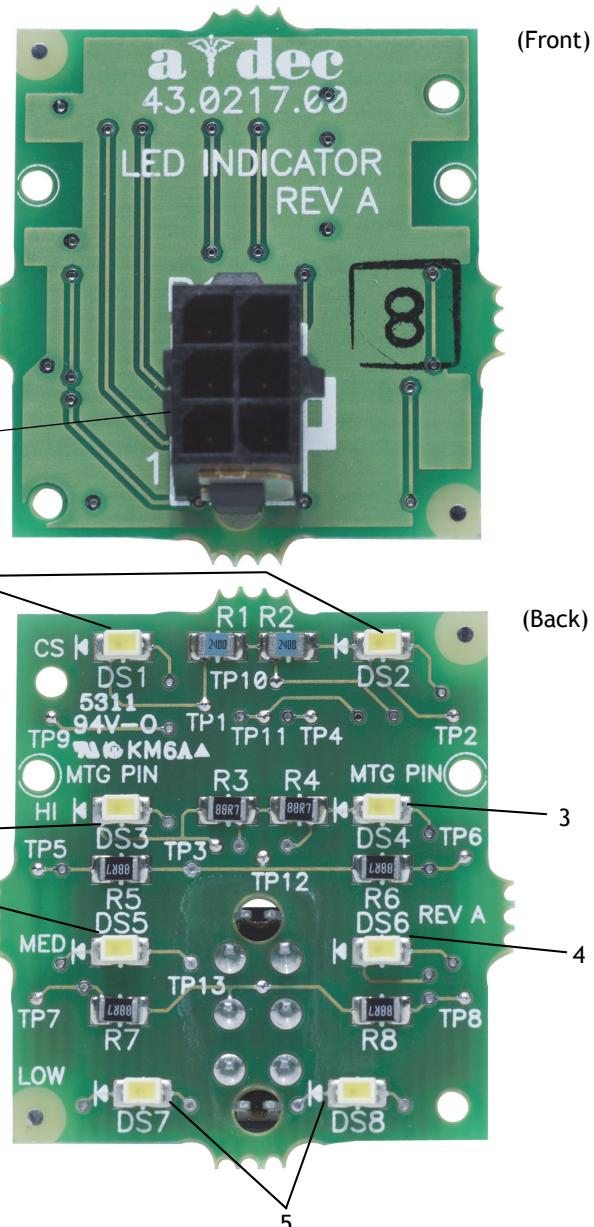
Item	Description
1	P1 - Indicator board input connector
2	DS1 and DS2 - Cure-safe mode
3	DS3 and DS4 - High mode LEDs
4	DS5 and DS6 - Medium mode LEDs
5	DS7 and DS8 - Low mode LEDs



**CAUTION** 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.

**NOTE** Electrical junction box wiring must be installed by a licensed electrician and installed according to local building codes.

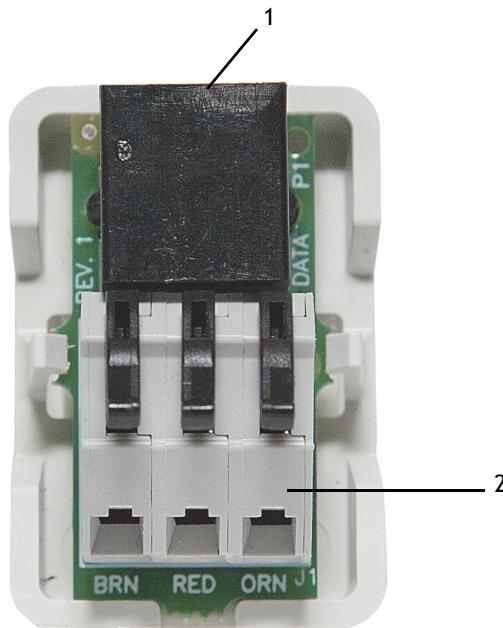
## LED Indicator Light Circuit Board



## LED Dental Light Terminal to CAN Adapter Board

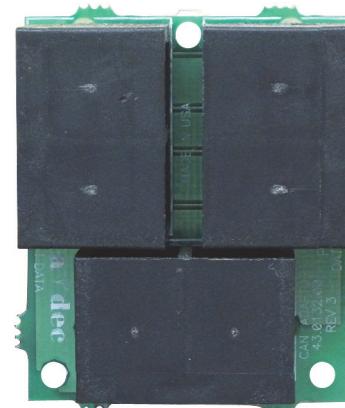
Part Number: 43.0236.00

Item	Description
1	P1 - Data port
2	J1 - Data terminal strip



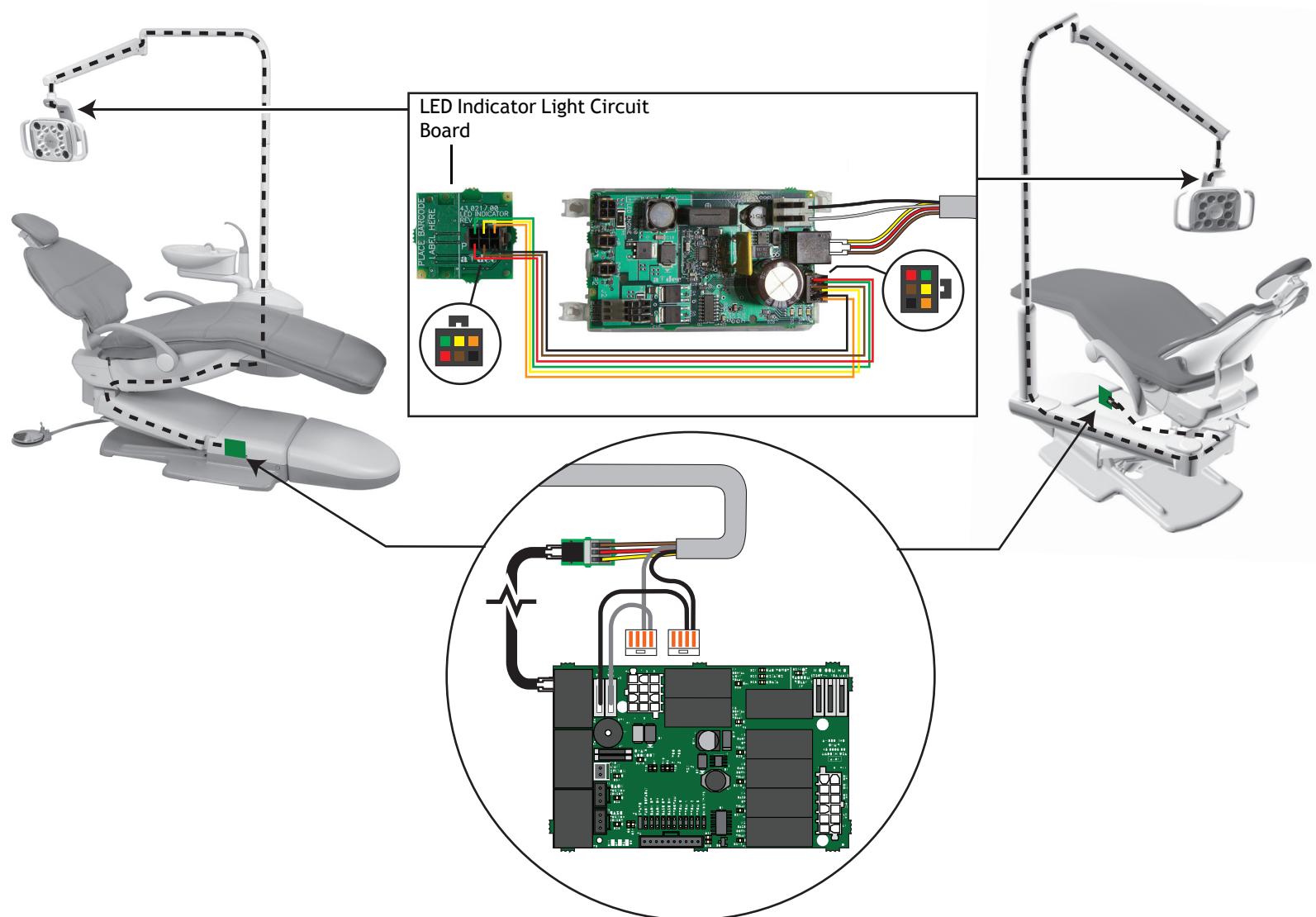
## LED Dental Light CAN Adaptor Board

Part Number: 43.0132.00

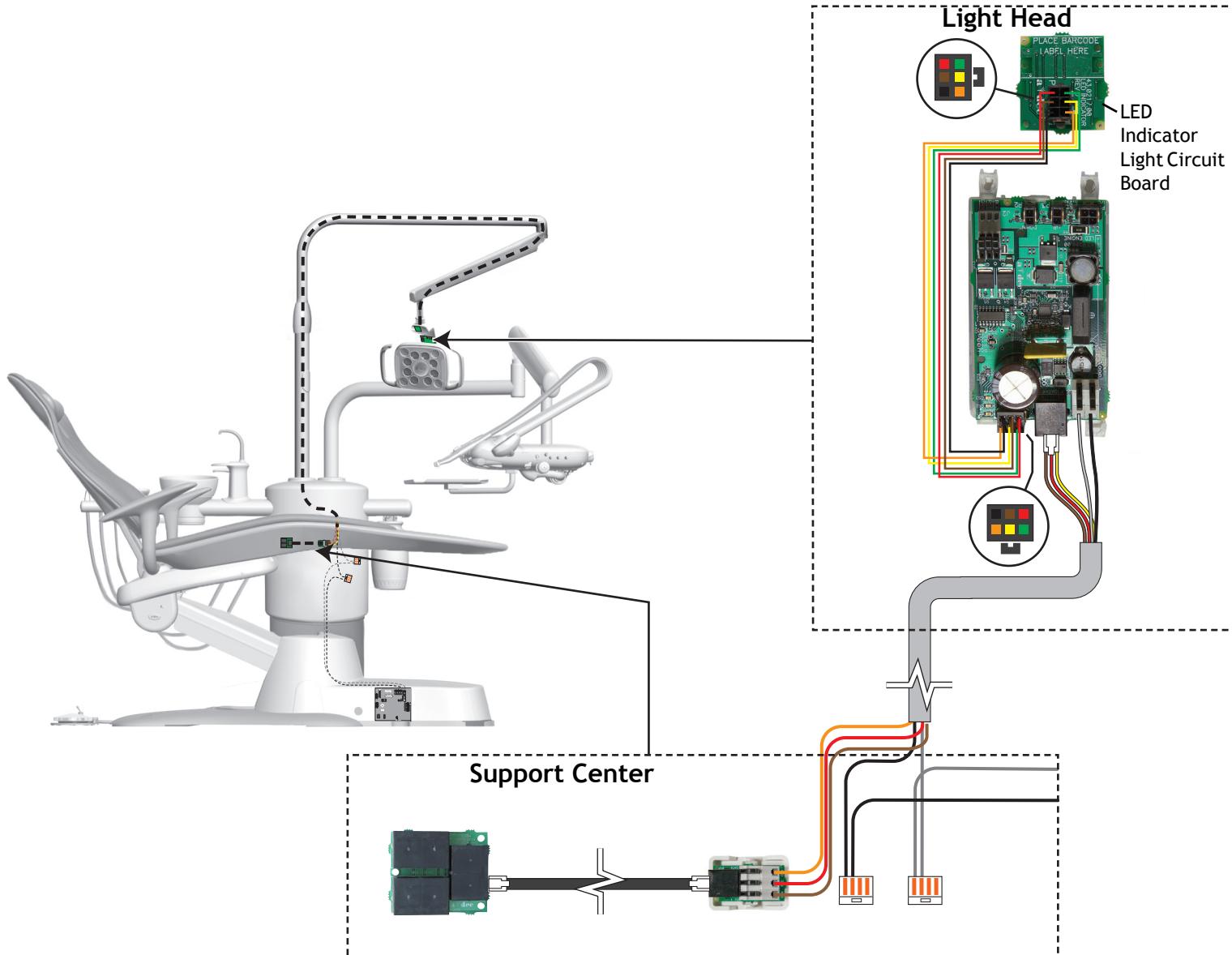


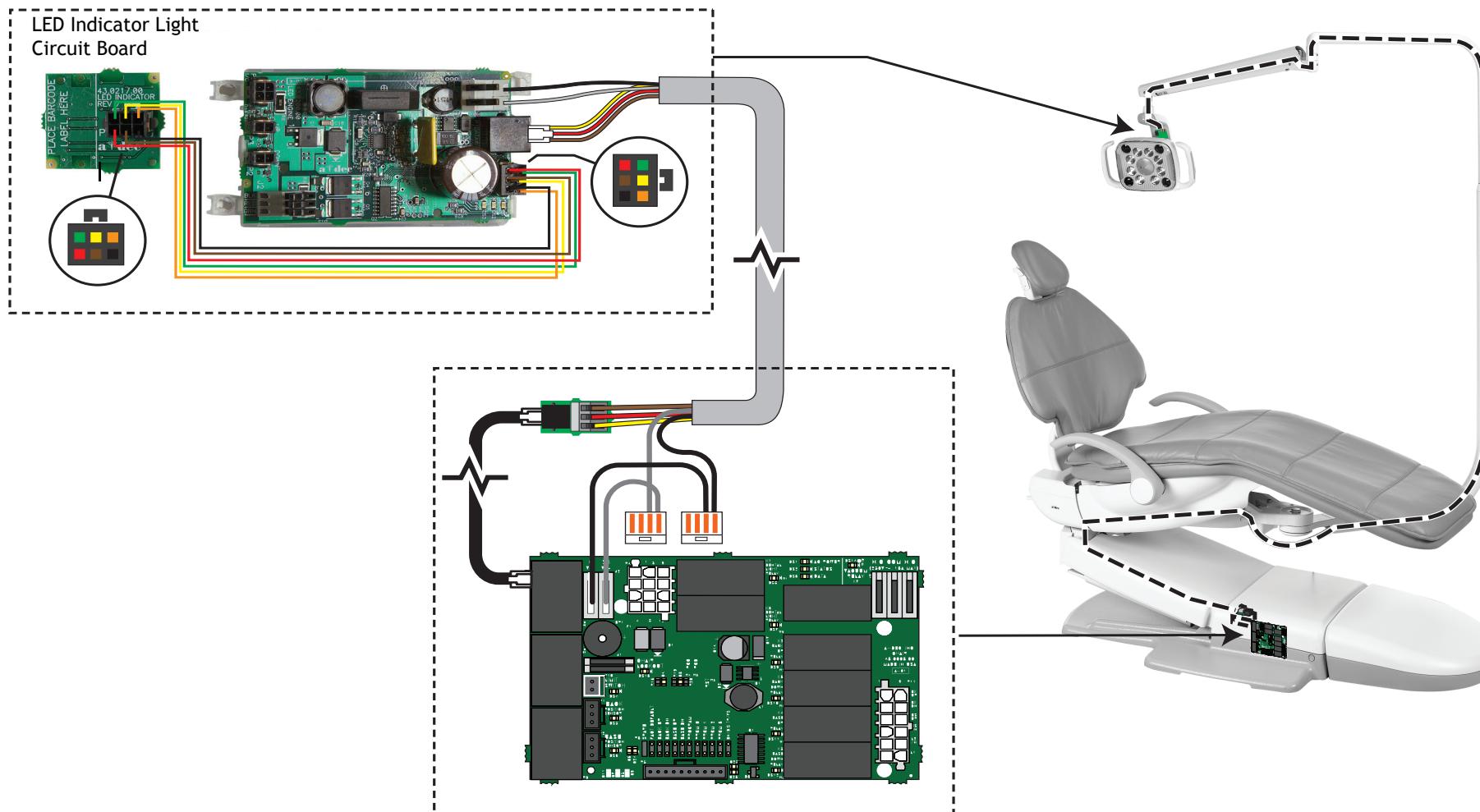
## A-dec LED Dental Light (570L – 577L) Wiring

571L on an A-dec 511 Chair

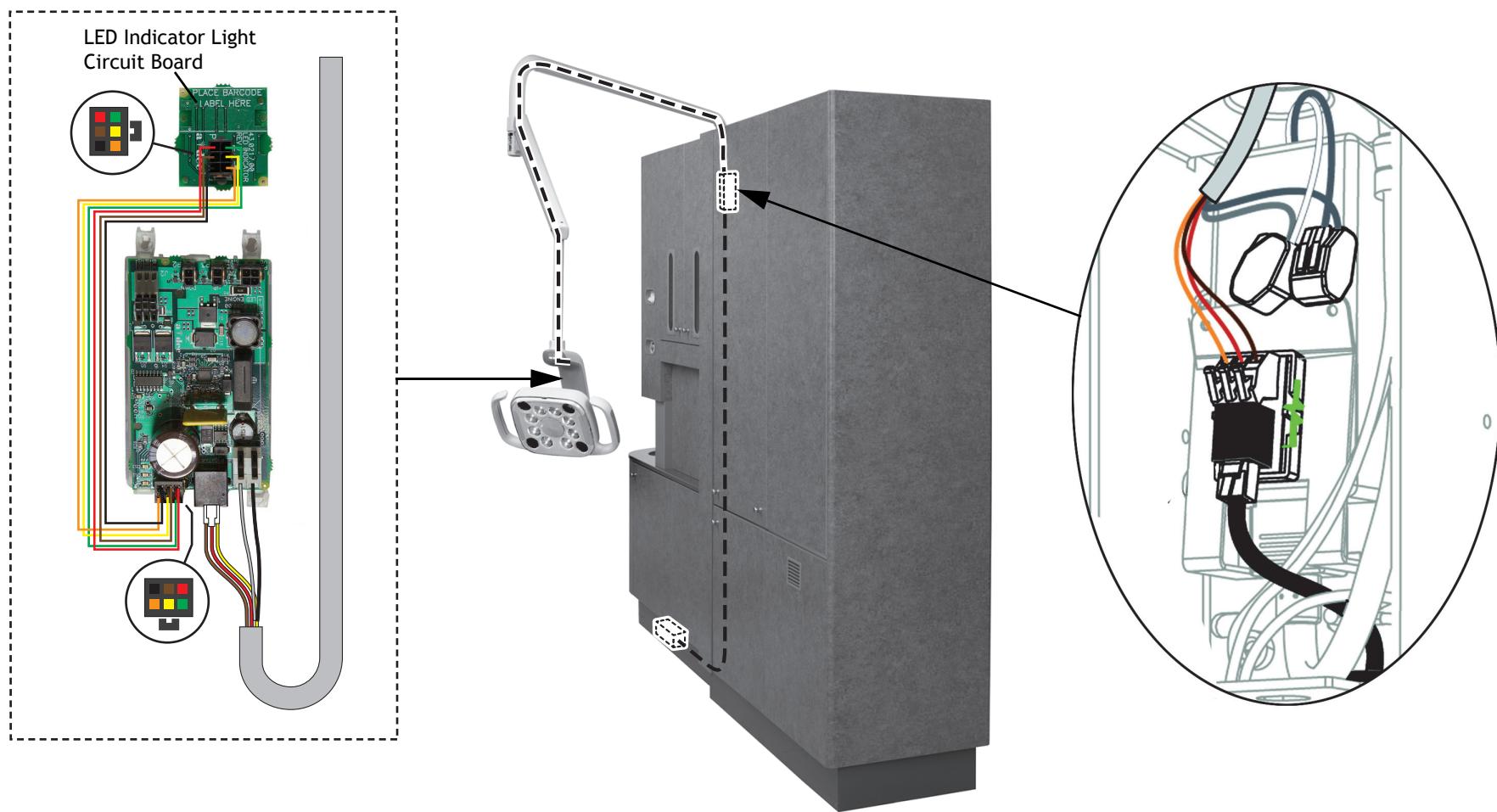


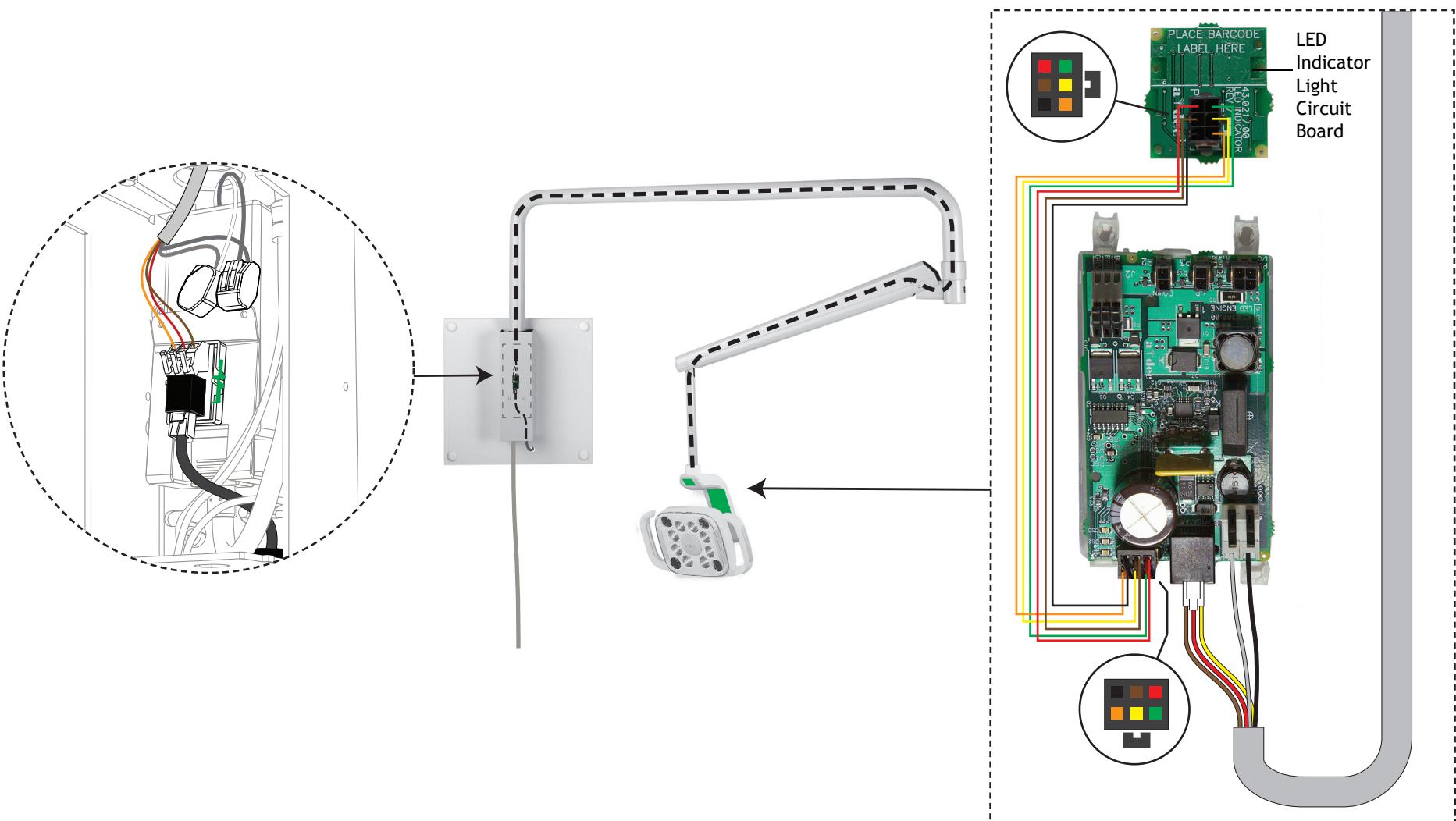
## 571L on an A-dec 311 Chair



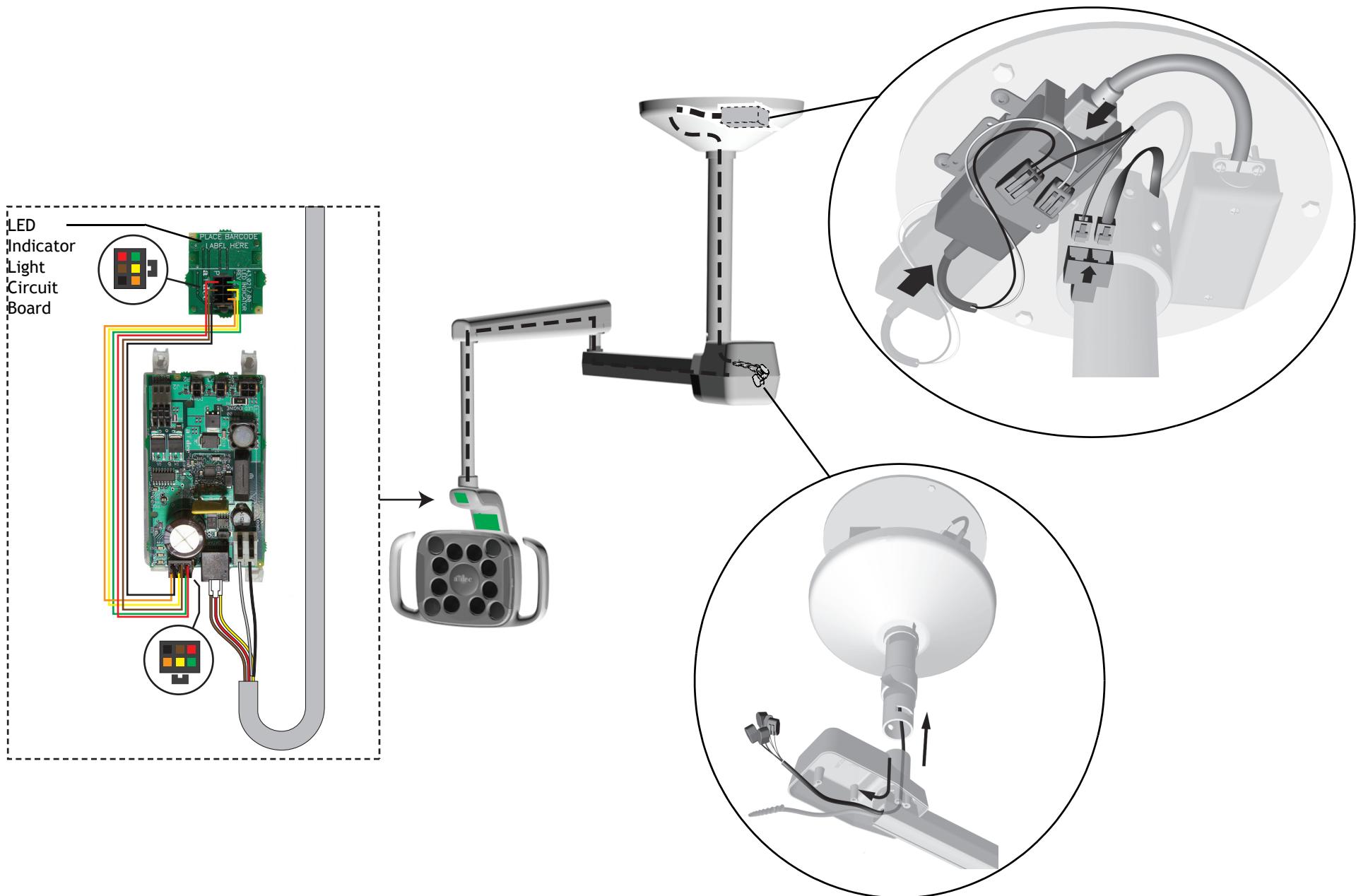
**572L on an A-dec 511 Chair, Radius Arm Mounted**

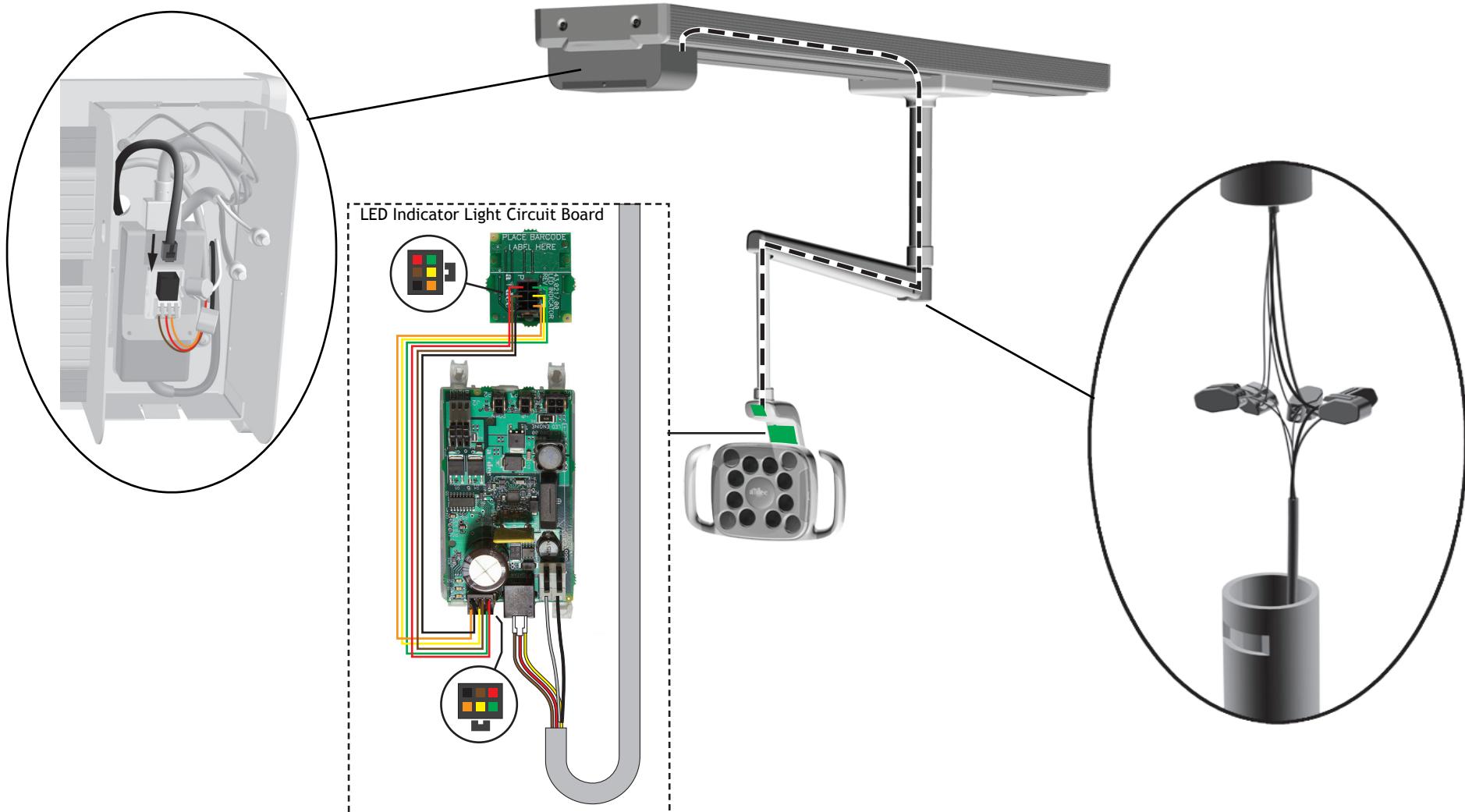
## 574L Cabinet Mounted



**575L Wall Mounted**

## 576L Ceiling Mounted



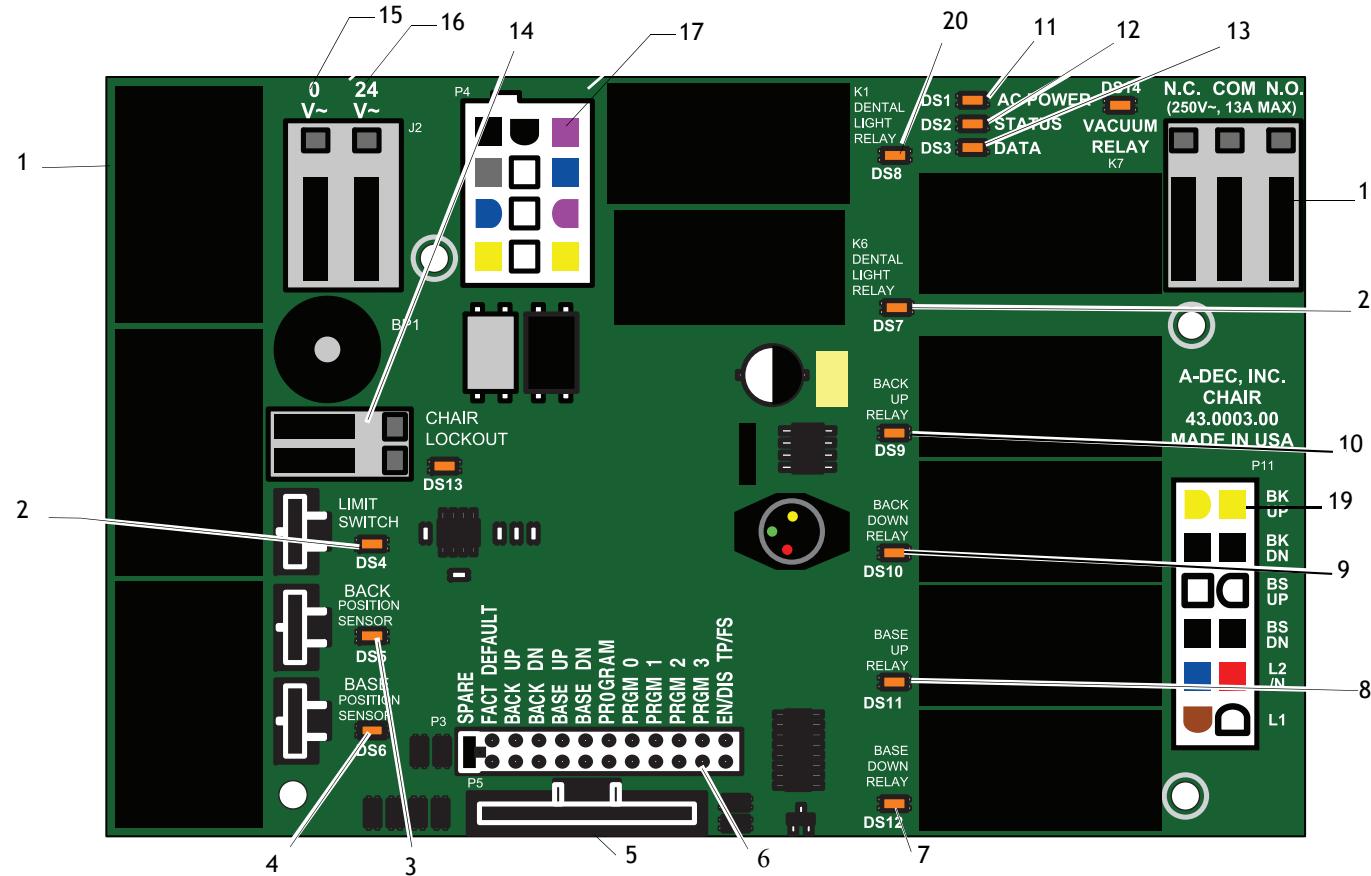
**577L Track Mounted**



## A-dec 571/572 and 6300 Dental Light (Halogen 3-Axis) Circuit Board Components

### A-dec 511 Chair Circuit Board

Part Number: 90.1072.00



## 511 Chair Circuit Board Components

LED	Status	Description
DS1 - AC power LED	Off	No 24 VAC power, tripped circuit breaker, power supply turned off, no line voltage
	Green, steady	24 VAC at the terminal strip
DS2 - Status LED	Off	System is not functioning, no power or circuit board has failed
	Green, steady	Normal operation
DS3 - Data LED	Off	No DCS communication, not connected to the DCS, or DCS has failed
	Green, steady	Detects active DCS
	Green, blinking	Valid DCS message
DS4 - Chair limit switch	Off	Closed, (normal)
	Red	Open, (activated)
DS13 - Chair lockout	Off	Open, (normal)
	Red	Closed, (activated)
DS5 + DS6 - Chair potentiometers	Off	Potentiometer: Not connected or bad connection; moving in wrong direction; limited range of motion; or cable is not on wheel.
	Yellow, steady	Normal operation
	Yellow, fast blink	Upper end of travel
DS9, DS10, DS11, DS12 - Chair relay LEDs	Off	Relay is off
	On	Relay is on
DS7, DS8 - Dental light relay LEDs	Off	Relay is off
	On	Relay is on
DS14 - Vacuum relay LED	Off	Relay is off
	On	Relay is on

## 511 Circuit Board Identification

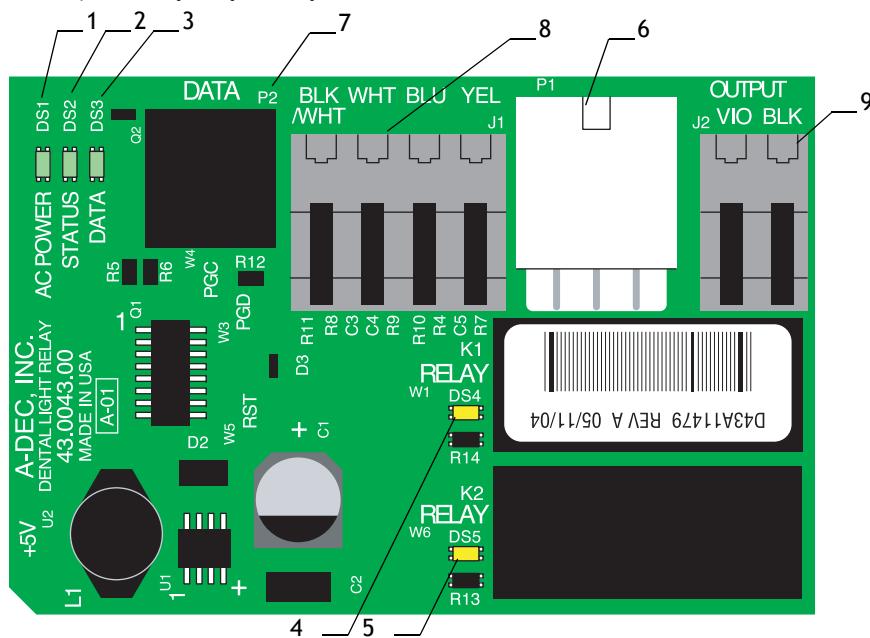
Item	Description
1	P7, P8, P9 - Data line ports
2	DS4 - Stop switch LED (limit switch) and P10 connector
3	DS5 - Back potentiometer LED and P1 connector
4	DS6 - Base potentiometer LED and P2 connector
5	P5 - Footswitch connector
6	P3 - Test points
7	DS12 - Base down LED and relay K5
8	DS11 - Base up LED and relay K4
9	DS10 - Back down LED and relay K3
10	DS9 - Back up LED and relay K2
11	DS1 - AC power LED
12	DS2 - Status LED
13	DS3 - Data LED
14	DS13 - Chair lockout LED and terminal strip J1
15	J2 - Ø VAC terminal strip (output)
16	J2 - 24 VAC terminal strip (output)
17	P4 - Input power and dental light connector
18	J3 - Vacuum relay K7 output terminal strip
19	P11 - Pump motor and solenoid connector
20	DS8 - Dental light LED relay and K1
21	DS7 - Dental light LED relay and K6



**CAUTION** 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.

## A-dec 6300 Dental Light Relay Circuit Board

Part Number: 28.1577.00



### 6300 Dental Light Output Settings

Function	K1 (DS4)	K2 (DS5)	Output
Off	Off	Off	0 VAC
High intensity	On	Off	17 VAC
Composite intensity	Off	On	12 VAC
Medium Intensity	On	On	16 VAC

## 6300 Dental Light Relay Circuit Board LED Identification

LED	Status	Description
DS1 - AC power LED	Off	No 24 VAC power, tripped circuit breaker, power supply turned off, no line voltage
	Green, steady	24 VAC at the terminal strip
DS2 - Status LED	Off	System is not functioning, no power or circuit board has failed
	Green, steady	Normal operation
DS3 - Data LED	Off	No DCS communication, not connected to the DCS, or DCS has failed
	Green, steady	Detects active DCS
	Green, blinking	Valid DCS message
DS4, DS5 - Dental light relay LEDs	DS4, DS5	
	Off, Off	Dental light off
	On, Off	High intensity
	Off, On	Composite intensity
	On, On	Medium intensity

## 6300 Dental Light Relay Circuit Board Identification

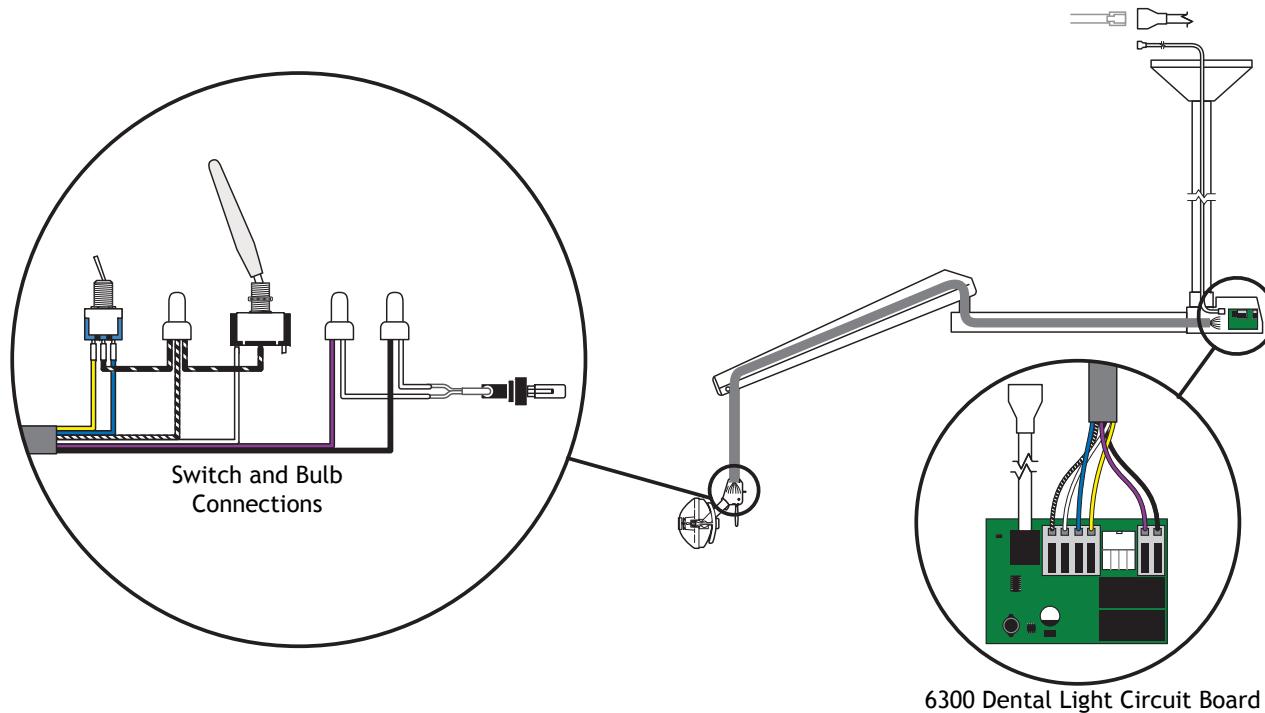
Item	Description
1	DS1 - AC power LED
2	DS2 - Status LED
3	DS3 - Data LED
4	DS4 - Dental light relay
5	DS5 - Dental light relay
6	P1 - Input power
7	P2 - Data line port
8	J1 - Toggle switch inputs
9	J2 - Dental light output power



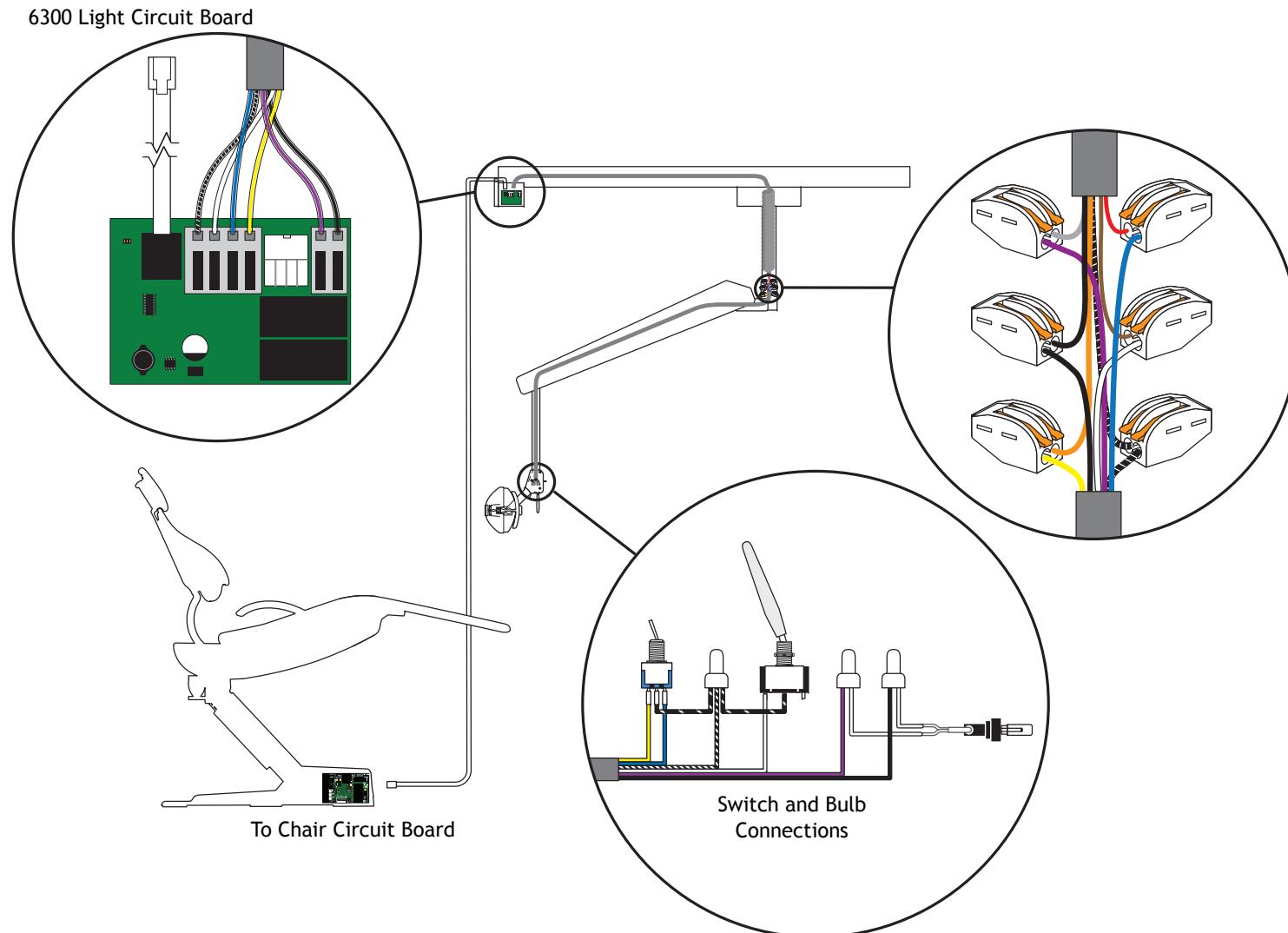
**CAUTION** Circuit boards are sensitive to static electricity. Electrostatic Discharge (ESD) precautions are required when touching a circuit board or making connections to or from the circuit board. Circuit boards should be installed only by an electrician or qualified service person.

## A-dec 571/572 and 6300 Dental Light (Halogen 3-Axis) Wiring

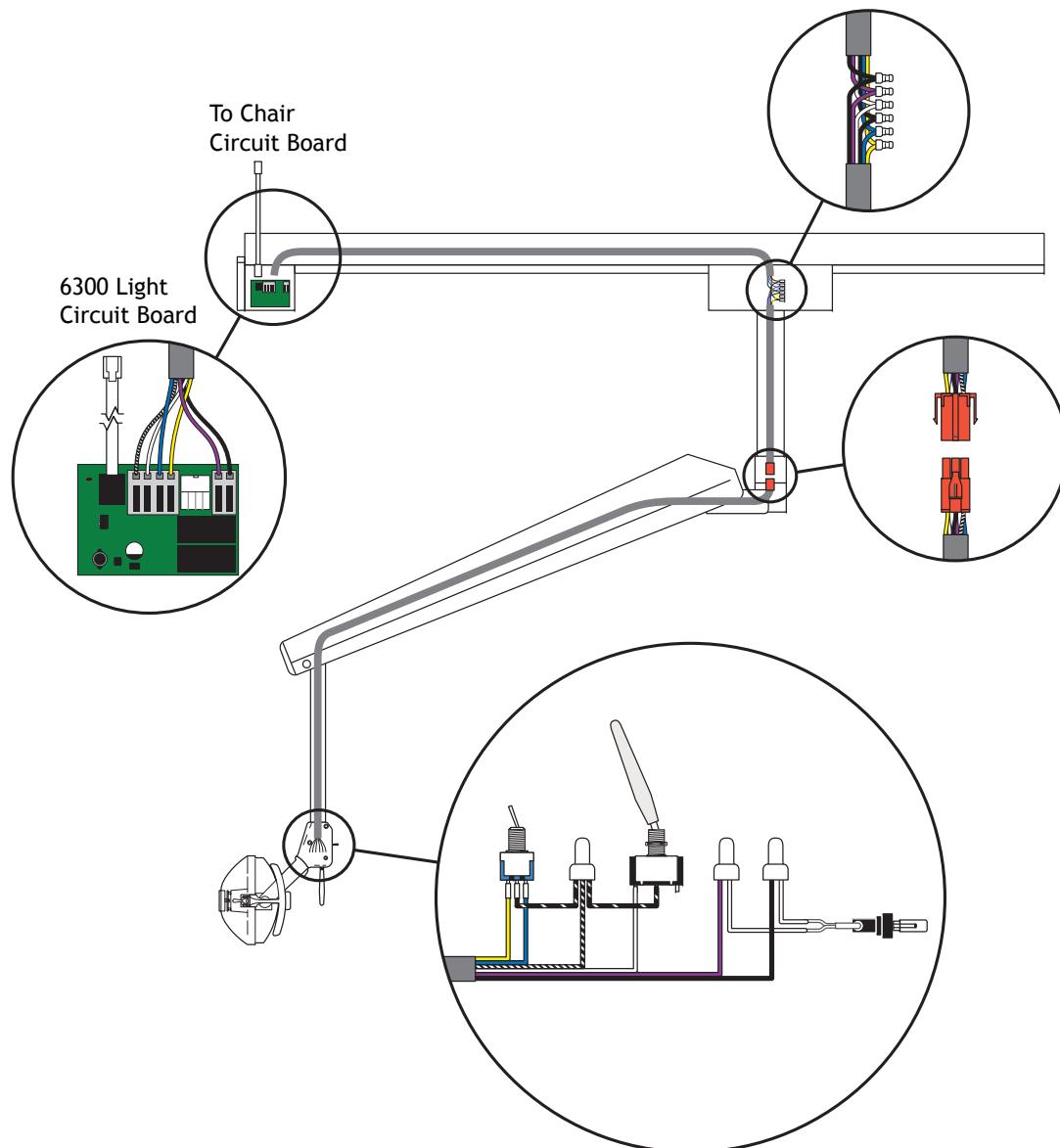
### 6300 Ceiling, Wall, and Preference Mount Switch and Data Line Connections



## 6300 Track Light Switch Connections and Data Line (2004 and Later)



## 6300 Track Light Switch Connections and Data Line (2003 and Earlier)



## A-dec 571/572 and 6300 Dental Light Power Cables

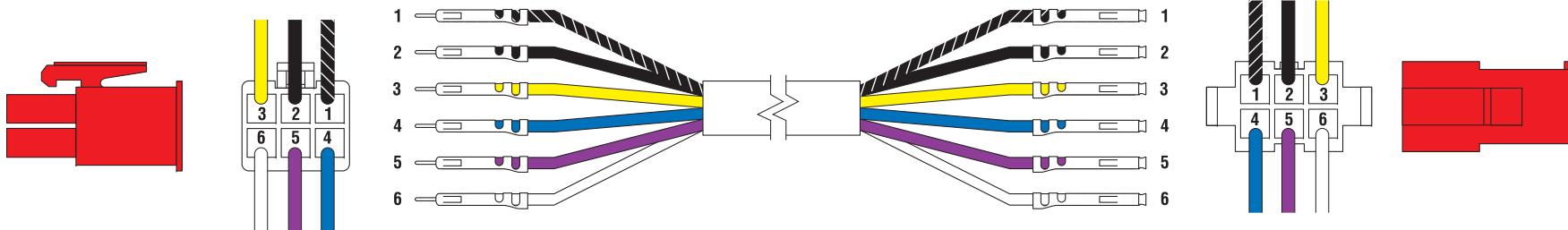
Part Number: 28.1584.00

Pin	Voltage	Wire
1	0 VDC (circuit ground)	Black/white
2	0 VAC	Black
3	5 VDC = high or medium 0 VDC = composite	Yellow (composite)
4	5 VDC = medium or composite 0 VDC = high out	Blue (high)
5	17/16/12.1 VAC	Violet
6	5 VDC = on/off toggle = open 0 VDC = on/off toggle = closed	White (on/off)



**NOTE** When Pin 3 and Pin 4 are 5 VDC, then the output voltage on Pin 5 is medium intensity.

### Power Cable

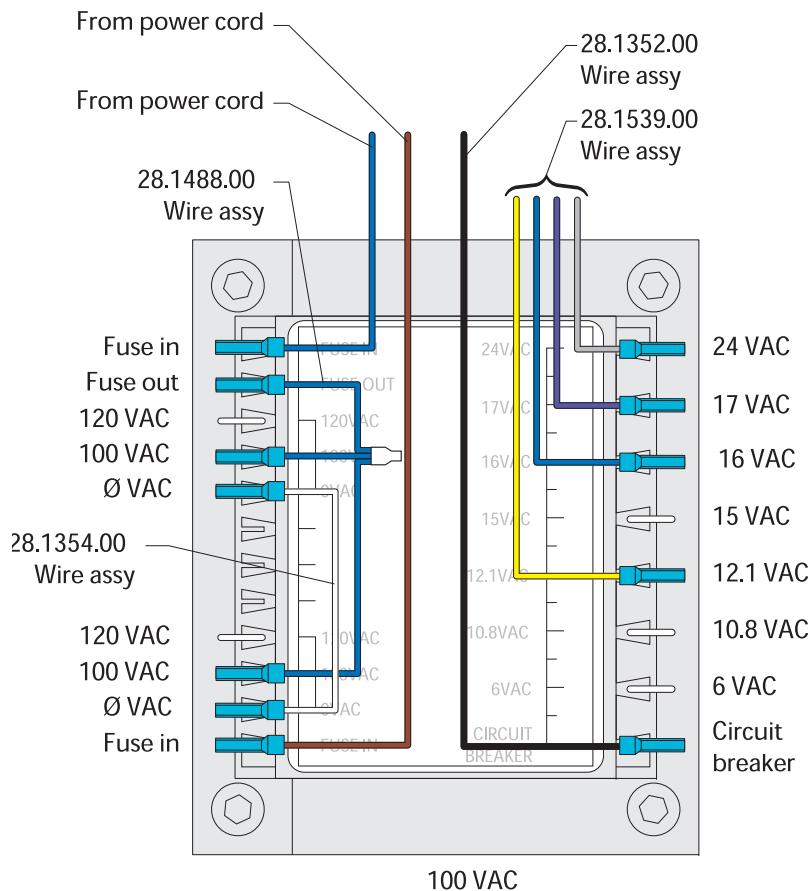


## A-dec 571/572 and 6300 Dental Light (Halogen 3-Axis) Transformer

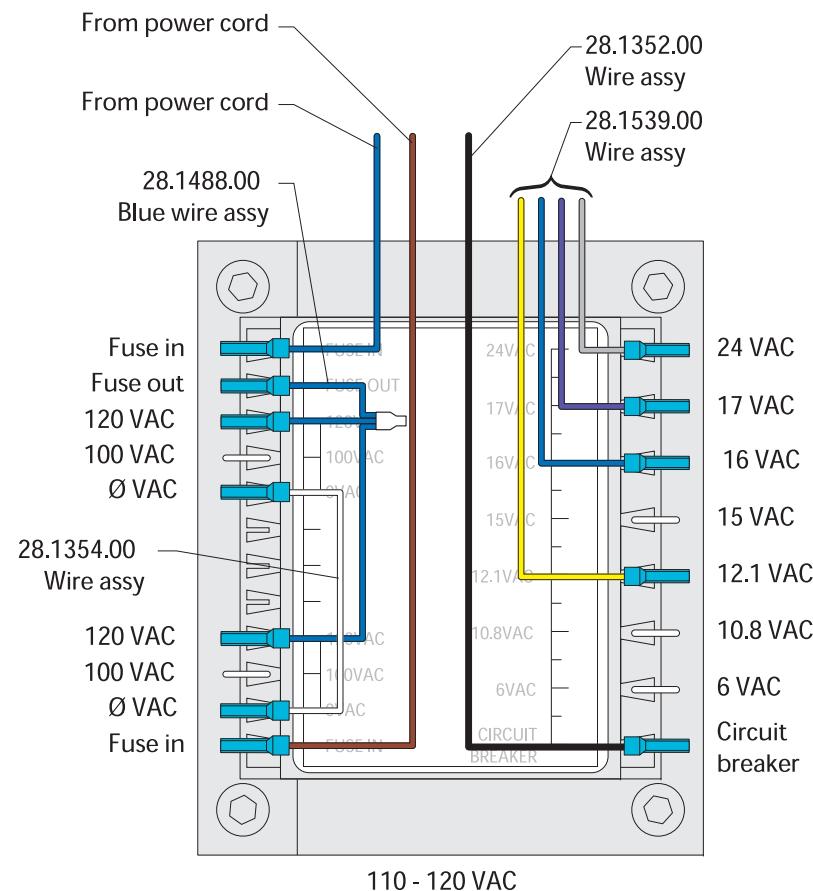
Part Number: P/N 28.1588.00

The transformer is wired three different ways to create 100 VAC, 110-120 VAC, and 220-240 VAC voltages.

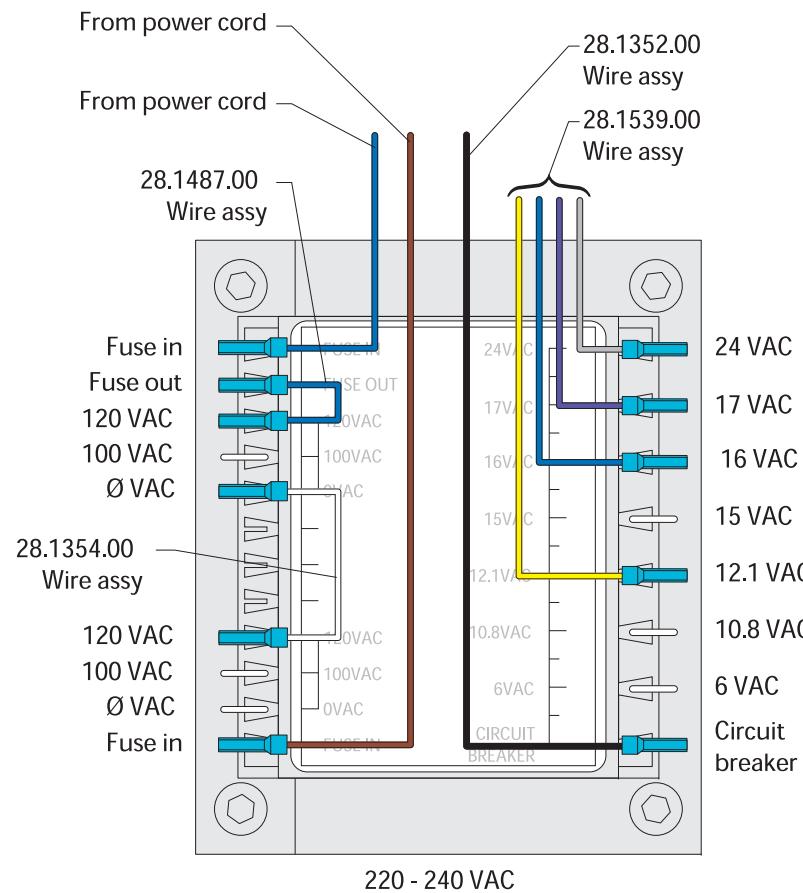
### 100 VAC Transformer Wiring



### 110-120 VAC Transformer Wiring

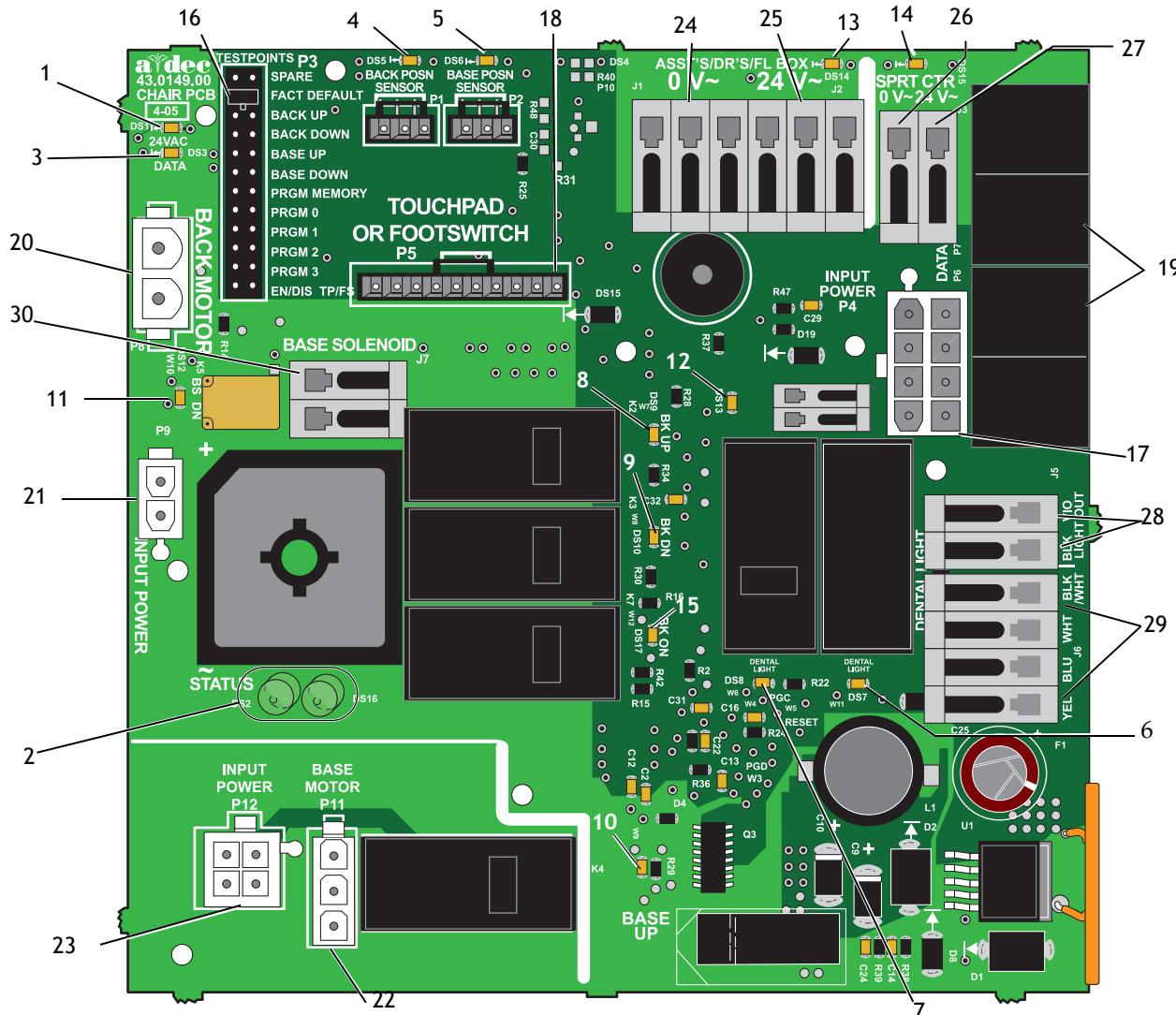


## 220-240 VAC Transformer Wiring



## A-dec 371/372 Dental Light (Halogen 2-Axis) Circuit Board Components

### A-dec 311 Dental Chair Circuit Board for 371/372 Dental Light on an A-dec 311 Chair



### 371/372 Dental Light Output Settings

Function	K1 (DS8)	K6 (DS7)	Output
Off	Off	Off	0 VAC
High intensity	On	Off	17 VAC
Composite intensity	Off	On	12 VAC

## 311 Chair Circuit Board LED Identification

LED	Status	Description
DS1, DS14, and DS15 - AC power LED	Off	No 24 VAC power, tripped circuit breaker, power supply turned off
	Green, steady	24 VAC present
DS2 and DS16- Status LED	Off	System is not functioning, no power, or circuit board has failed
	Blue, steady	Normal operation
	Blue, single blink	Duty cycle limit of chair back has been exceeded
DS3 - Data LED	Blue, double blink	Jumper is in factory mode
	Off	No DCS communication, not connected to the DCS, or DCS has failed
	Green, steady	Detects active DCS
DS13 - Chair lockout	Green, blinking	Valid DCS Message
	Off	Open, (normal)
	Red, on	Closed, (activated)
DS5, DS6 - Chair position sensors	Off	Position sensor: not connected or bad connection
	Yellow, steady	Normal operation
	Yellow, fast blink	Upper end of travel
DS9, DS10, DS11, DS12, DS17- Chair relay LEDs	Yellow, slow blink	Lower end of travel
	Off	Relay is off
	On	Relay is on
DS7, DS8 - Dental light relay LEDs	Off	Relay is off
	On	Relay is on

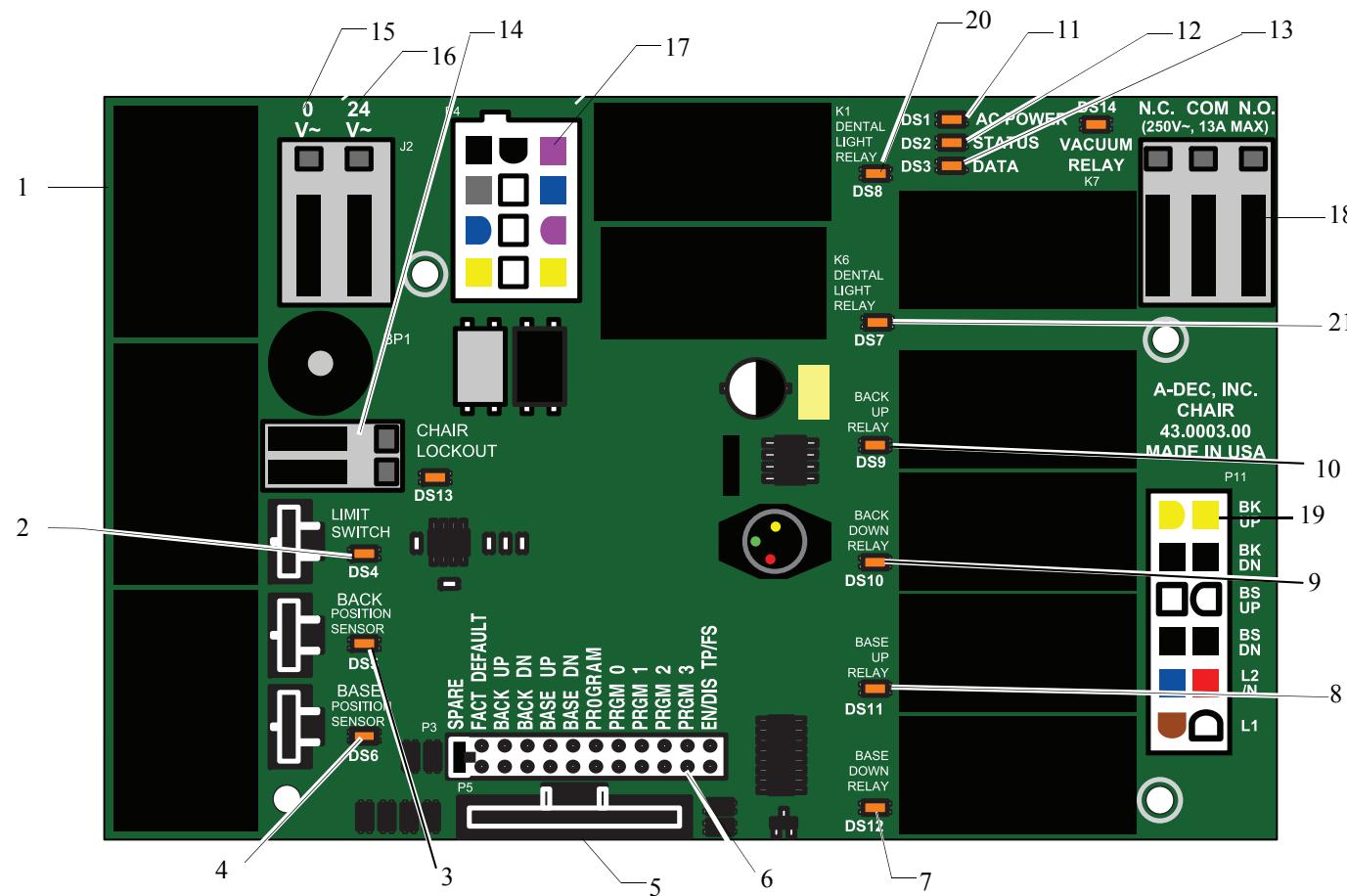
## 311 Chair Circuit Board Identification

Item	Description	Item	Description
1	DS1 - AC power LED (CB1)	16	P3 - testpoints header
2	DS2, DS16 - status LEDs	17	P4 - input power connector
3	DS3 - data LED	18	P5 - touchpad or footswitch connector
4	DS5 - back position sensor, LED/P1 Connector	19	P6/P7 - data ports
5	DS6 - base position sensor LED/ P2 connector	20	P8 - back motor connector
6	DS7 - dental light LED/Relay K6	21	P9 - input power connector
7	DS8 - dental light LED/Relay K1	22	P11 - base motor connector
8	DS9 - back up LED/Relay K2	23	P12 - input power connector
9	DS10 - back down LED/relay K3	24	J1 - Ø VAC terminal strip (output) for assistant's, doctor's, floor box
10	DS11 - base up LED/relay K4	25	J2 - 24 VAC terminal strip (output) for assistant's, doctor's and floor box
11	DS12 - base down LED/relay K5	26	J3 - 0 VAC terminal strip (output) for support center
12	DS13 - chair lockout LED/ terminal strip J4	27	J3 - 24 VAC terminal strip (output) for support center
13	DS14 - AC power LED (CB4)	28	J5 - dental light output terminal strip
14	DS15 - AC power LED (CB5)	29	J6 - dental light input terminal strip
15	DS17 - back on LED/Relay K7	30	J7 - base solenoid terminal strip



**CAUTION** 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.

## A-dec 511 Chair Board Components for 371/372 Dental Light on an A-dec 511 Chair



### 371/372 Dental Light Output Settings

Function	K1 (DS8)	K6 (DS7)	Output
Off	Off	Off	0 VAC
High intensity	On	Off	17 VAC
Composite intensity	Off	On	12 VAC

## 511 Chair Circuit Board LED Identification

LED	Status	Description
DS1 - AC power LED	Off	No 24 VAC power, tripped circuit breaker, power supply turned off, no line voltage
	Green, steady	24 VAC at the terminal strip
DS2 - Status LED	Off	System is not functioning, no power or circuit board has failed
	Green, steady	Normal operation
DS3 - Data LED	Off	No DCS communication, not connected to the DCS, or DCS has failed
	Green, steady	Detects active DCS
	Green, blinking	Valid DCS message
DS4 - Chair limit switch	Off	Closed, (normal)
	Red	Open, (activated)
DS13 - Chair lockout	Off	Open, (normal)
	Red	Closed, (activated)
DS5 + DS6 - Chair potentiometers	Off	Potentiometer: Not connected or bad connection; moving in wrong direction; limited range of motion; or cable is not on wheel
	Yellow, steady	Normal operation
	Yellow, fast blink	Upper end of travel
DS9, DS10, DS11, DS12 - Chair relay LEDs	Off	Relay is off
	On	Relay is on
DS7, DS8 - Dental light relay LEDs	Off	Relay is off
	On	Relay is on
DS14 - Vacuum relay LED	Off	Relay is off
	On	Relay is on

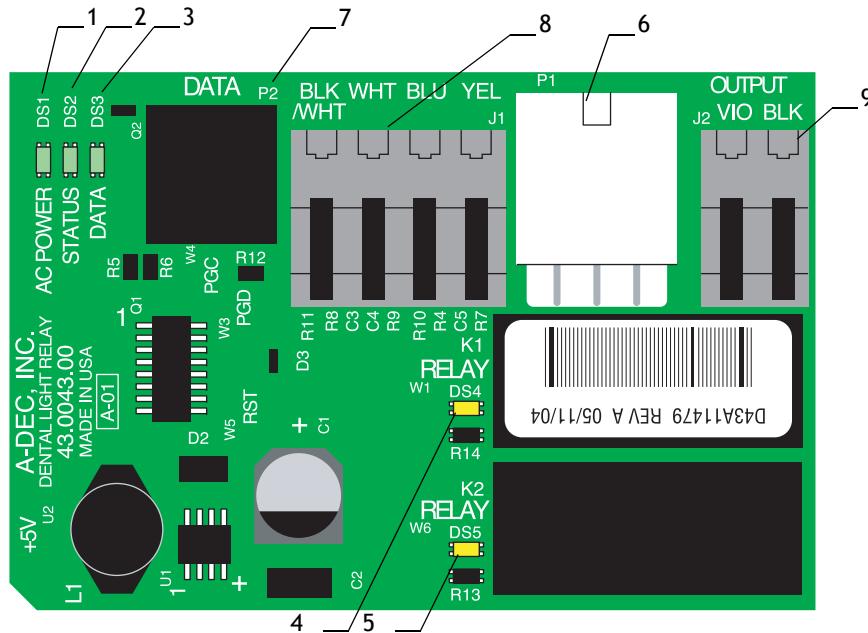
## 511 Chair Circuit Board Identification

Item	Description	Item	Description
1	P7, P8, P9 - data ports	11	DS1 - AC power LED
2	DS4 - stop switch LED (limit switch)/P10 connector	12	DS2 - status LED
3	DS5 - back potentiometer LED/P1 connector	13	DS3 - data LED
4	DS6 - base potentiometer LED/P2 connector	14	DS13 - chair lockout LED/terminal strip J1
5	P5 - footswitch connector	15	J2 - 0 VAC terminal strip (output)
6	P3 - testpoints header	16	J2 - 24 VAC terminal strip (output)
7	DS12 - base down LED/relay K5	17	P4 - Input power/dental light connector
8	DS11 - base up LED/relay K4	18	J3 - vacuum relay K7 output terminal strip
9	DS10 - back down LED/relay K3	19	P11 - pump motor/solenoid connector
10	DS9 - back up LED/relay K2	20	DS8 - dental light LED relay/K1
		21	DS7 - dental light LED relay/K6



**CAUTION** 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.

## A-dec 371/372 Dental Light Relay Circuit Board



### 371/372 Dental Output Settings

Function	K1 (DS4)	K2 (DS5)	Output
Off	Off	Off	0 VAC
High intensity	On	Off	17 VAC
Composite intensity	Off	On	12 VAC

## 371/372 Dental Light Relay Board LED Identification

LED	Status	Description
DS1 - AC power LED	Off	No 24 VAC power, tripped circuit breaker, power supply turned off, no line voltage
	Green, steady	24 VAC at the terminal strip
DS2 - Status LED	Off	System is not functioning, no power or circuit board has failed
	Green, steady	Normal operation
DS3 - Data LED	Off	No DCS communication, not connected to the DCS, or DCS has failed
	Green, steady	Detects active DCS
	Green, blinking	Valid DCS message
DS4, DS5 - Dental light relay LEDs	DS4, DS5	
	Off, Off	Dental light off
	On, Off	High intensity
	Off, On	Composite intensity
	On, On	Medium intensity

## 371/372 Dental Light Relay Circuit Board Identification

Item	Description
1	DS1 - AC power LED
2	DS2 - Status LED
3	DS3 - Data LED
4	DS4 - Dental light relay
5	DS5 - Dental light relay
6	P1 - Input power
7	P2 - Data port
8	J1 - Toggle switch inputs
9	J2 - Dental light output power



**CAUTION** 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.

## A-dec 371/372 Dental Light (Halogen 2-Axis) Wiring

### 371/372 Dental Light Connections



**TIP** Any DCS enabled touchpad connected to a light's DCS system will activate the dental light function.

#### On/Off Switch

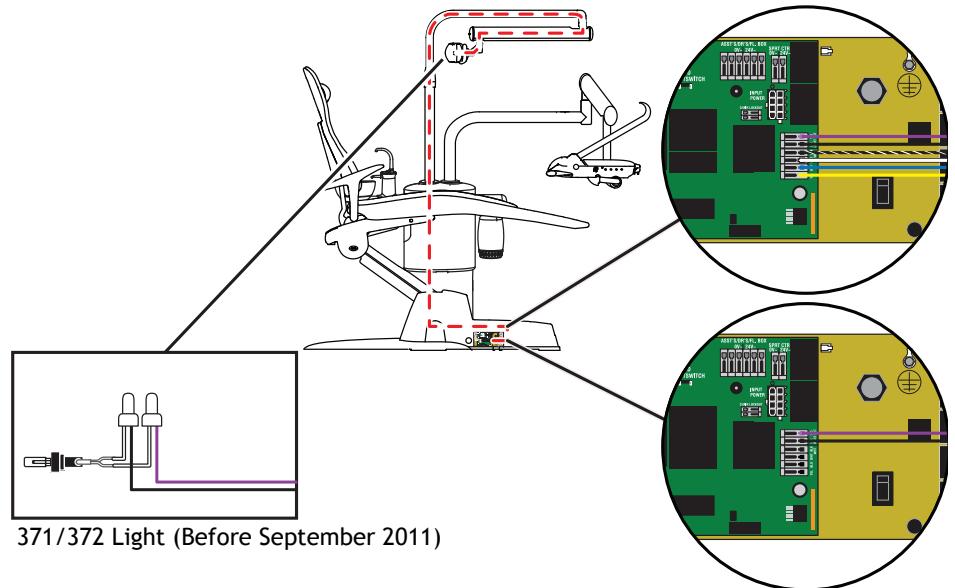
The on/off switch is used to manually turn on or off the dental light from the light head. The replacement kit is p/n 90.1039.00.

Position	Voltage	Wire
Open	5 VDC	White
Closed	0 VDC	White

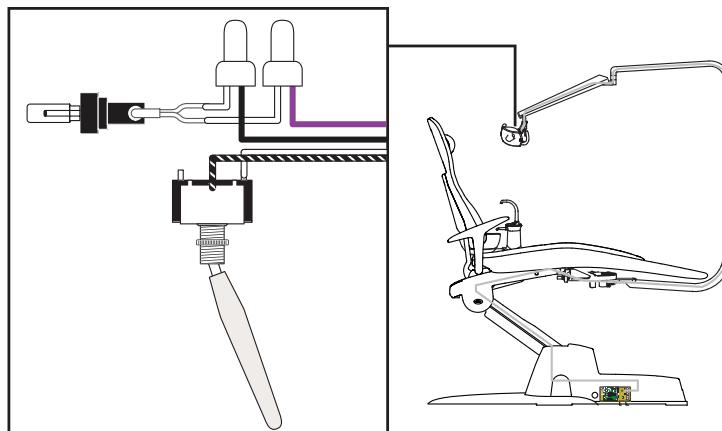


**NOTE** All DC voltage measurements are taken with the black multimeter lead on the black/white wire.

### 371/372 Dental Light Switch Connections

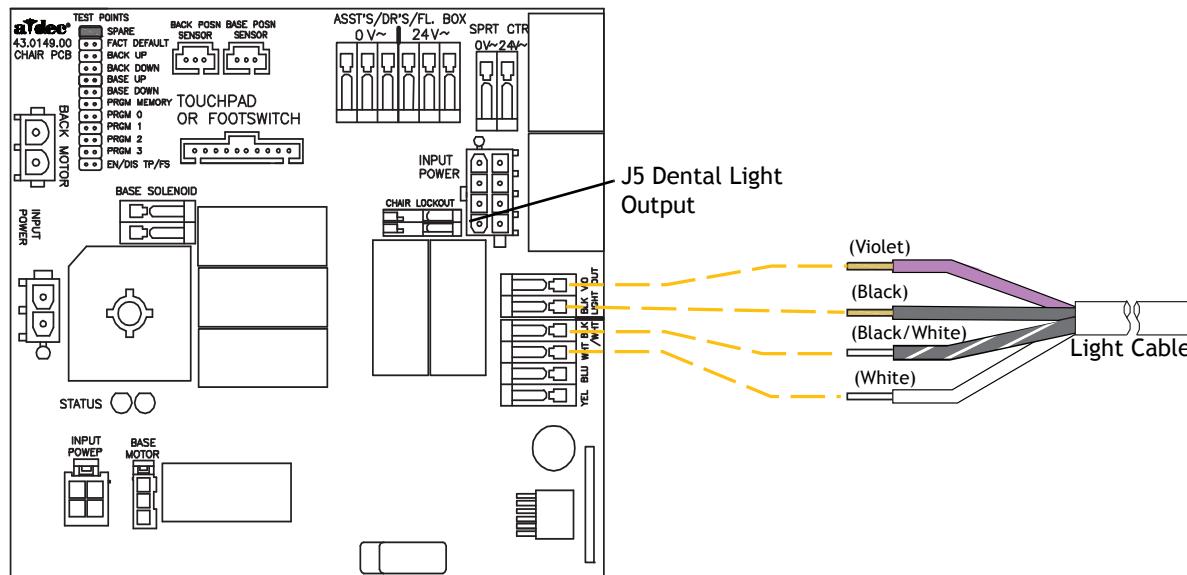


371/372 Lights (Effective September 2011)



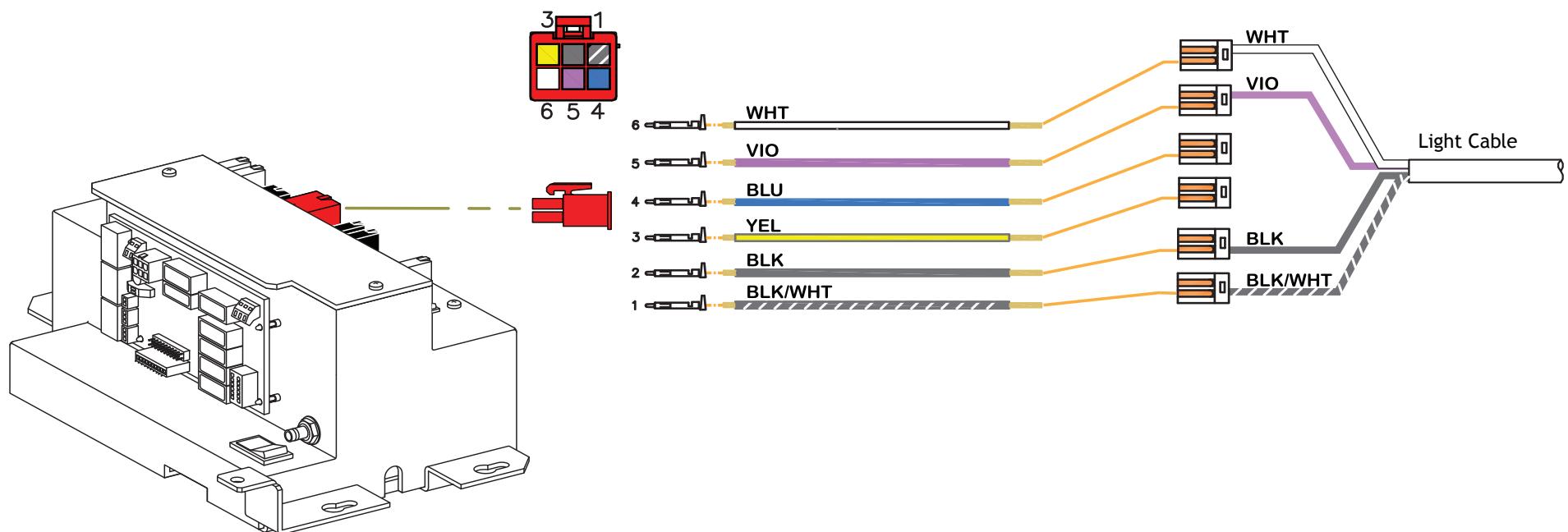
## A-dec 371/372 Dental Light Wire Connections on an A-dec 311 Chair

Terminal	Voltage	Terminal Label	Wire
J5	17/12.1 VAC	VIO	Violet
J5	0 VDC	BLK	Black



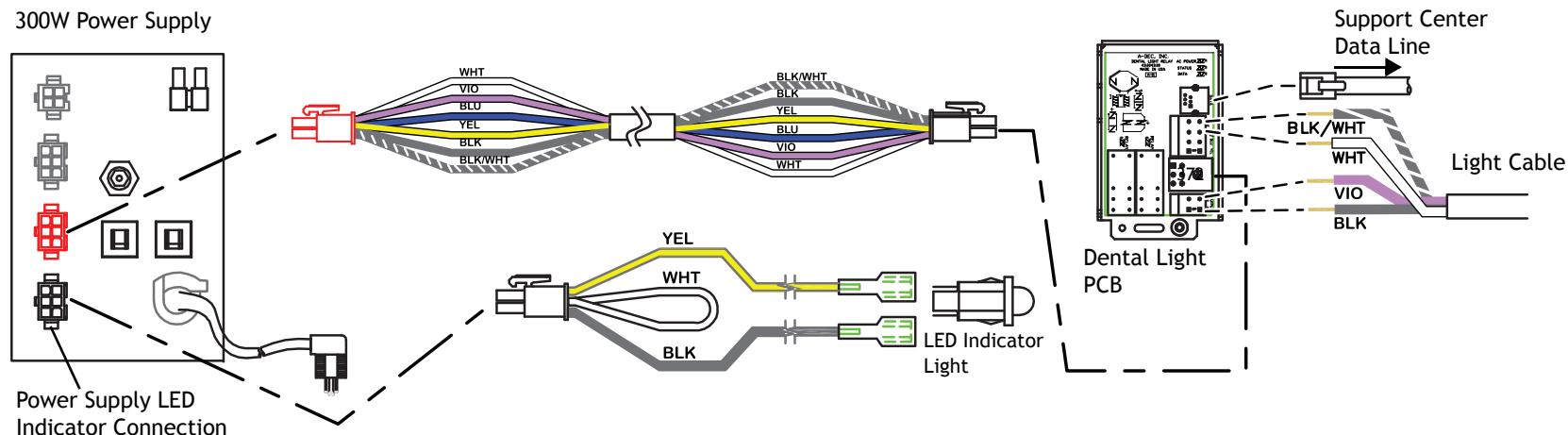
## A-dec 371/372 Dental Light Wire Connections on an A-dec 511 Chair

PIN	Voltage	Terminal Label	Wire
5	17/12.1 VAC	VIO	Violet
2	0 VAC	BLK	Black
6	0/5 VAC	WHT	White
1	0 VAC	BLK/WHT	Black with white stripe



## A-dec 371/372 Dental Light Wire Connections on Cascade, Decade, Performer, Priority Chairs

Terminal	Voltage	Terminal Label	Wire
J2	17/12.1 VAC	VIO	Violet
J2	0 VAC	BLK	Black
<b>372 Dental Light</b>			
J1	0 VDC (circuit ground)	BLK/WHT	Black/White
J1	5 VDC = on/off toggle = open 0 VDC = on/off toggle = closed	WHT	White (On/Off)
J1	5 VDC = medium or composite 0 VDC = high out	BLU	Blue
J1	5 VDC = high or medium 0 VDC = composite	YEL	Yellow (composite)
J2	17/16/12.1 VAC	VIO	Violet
J2	0 VAC	BLK	Black



**NOTE** The LED indicator must be connected to the power supply for the Dental Light circuit board to function correctly.



# Dental Light Troubleshooting

This table contains tips and troubleshooting information to assist you in diagnosing dental light problems. This table is not intended to cover every situation, but includes the most common problems that you may encounter.

**Table 1. LED (570L - 577L), 371, 372, 571, 572, 6300 Troubleshooting**

Problem	Possible Cause	Description
Light does not work (light connected to 311 chair circuit board).	The bulb has failed (non-LED dental lights).  The dental light circuit breaker, CB6, has been tripped or the power supply has failed.	<p>Check for voltage at the bulb socket, if voltage is present, replace the bulb.</p> <p>Check the color of the bulb, replace if discolored.</p> <ul style="list-style-type: none"> <li>Check the circuit breaker and reset it. If the circuit breaker trips again, disconnect P4, J5, and J6 on the 311 chair board. If the circuit breaker trips again, replace the power supply.</li> <li>If the circuit breaker does not trip, reconnect P4. If the circuit breaker now trips, replace the 311 chair circuit board.</li> <li>If the circuit breaker does not trip, reconnect the connections to J6 (if any). If the circuit breaker now trips, replace the switch wiring to the 571-300 dental light.</li> <li>If the circuit breaker does not trip, reconnect the connections to J5. If the circuit breaker trips, replace the dental light.</li> </ul> <p>371 or 372 Dental Lights on a 511 chair:</p> <ul style="list-style-type: none"> <li>If CB5 on the 300W power supply is tripped, disconnect the dental light connector at the power supply and reset the circuit breaker. If CB5 trips again, replace the power supply. Connect the dental light to the power supply, if CB5 trips, replace the dental wiring harness or the adapter cable wiring.</li> </ul> <p>371 or 372 Dental Lights NOT on a 511 or 311 chair:</p> <ul style="list-style-type: none"> <li>If the dental light circuit breaker on the 300 W power supply is tripped: <ul style="list-style-type: none"> <li>Disconnect the dental light connector at the power supply and reset the circuit breaker.</li> <li>If the circuit breaker trips again, replace the power supply. (Connect the dental light to the power supply.) If the circuit breaker trips, either the dental light wiring harness, switch wiring, dental light circuit board, or dental light circuit board power cable has failed. Connect one at a time to determine the location of the failure.</li> </ul> </li> </ul> <p>571 Dental Lights:</p> <ul style="list-style-type: none"> <li>If CB5 on the 300W power supply is tripped, disconnect the dental light and reset the circuit breaker. If CB5 trips again, replace the power supply. Connect the dental light to the power supply and if CB5 trips, the dental light wiring harness or a switch is faulty.</li> </ul> <p>572 Dental Lights:</p> <ul style="list-style-type: none"> <li>The dental light circuit breaker is near the power transformer. If the breaker is tripped, disconnect the dental light wiring harness from the transformer and reset the breaker. If the breaker trips again, reset the circuit breaker. If the breaker does not trip, the dental wiring harness or a switch is faulty.</li> </ul>
	The bulb socket is faulty (non-LED dental lights).	Replace the socket.
Light works from the touchpad(s) but not from the dental light switches.	Loose connection in the dental light wiring harness.	<p>Verify that the wiring is connected properly.</p> <p>Check the connections at the dental light switches and terminals H5 and H6 on the circuit board.</p>

Problem	Possible Cause	Description
Light works from the dental light switches.	Faulty data line from the touchpad to the circuit board.	Temporarily substitute a known good data line from the touchpad to the circuit board, if the light works from the touchpad, determine and replace any bad bypassed data lines.
Light head is loose or difficult to position.	Rotation tension screws are too loose or tight.	Adjust the appropriate axis tension.
Flexarm drifts.	Tension adjustment nut inside the flexarm is too loose or tight.	Adjust the flexarm counterbalance.
Track light trolley drifts.	Track is not level.	Use wedges to level the track light ceiling pallet (P/N 017.017.00).
Track trolley light bounces back when pushed to the end of the track.	Power cable is hanging up inside the track.	Check power cable in track for proper routing. If you cannot correct the routing of the cable, replace the cable assembly.
Light intensity is dim, inconsistent, or the color is distorted.	Reflector or light shield may be damaged (non-LED dental light).	Inspect the dental light shield and reflector for damage or contamination. Replace or clean as necessary.   <b>CAUTION</b> Abrasives, disinfectants or chlorine damage the shield and reflector. Refer to the Instructions for Use for cleaning instructions.
	For the 372 Dental Light, the intensity switch is in the medium or composite position.	Check the intensity switch position.   <b>NOTE</b> Turning the light on when the intensity switch is in the composite position results in medium intensity.
	The mains voltage is low.	Verify the mains voltage is within specifications: 100/110-120/220-240 VAC
Unsatisfactory light pattern.	Light is out of focus, reflector or light shield may be damaged (non-LED dental lights).	<ol style="list-style-type: none"> <li>1. Focus the light.</li> <li>2. Check the light shield for severe abrasions, and replace if necessary.</li> <li>3. Clean the reflector and light shield.</li> </ol>





# A-DEC MONITOR MOUNTS

This section provides product overviews and adjustments for A-dec monitor mounts.

**Figure 1. A-dec Monitor Mounts**



Front (531)/Side (561) Mounted



Radius Mounted



Cabinet/Track Mounted



Ceiling Mounted



Cabinet Mounted



Wall Mounted

# Monitor Mount Overview

## Monitor Mount Specification

Maximum Weight	31 lb (14.1 kg) for chair- and cabinet track-mount 20 lb (9.1 kg) for ceiling, Central Console, and wall-mount
Recommended Maximum Size	19 " flat-panel LCD
Mounting Compliance	75 mm and 100 mm VESA mounting compliant



**NOTE** A line voltage power cord is provided with the monitor mount.



**NOTE** Specifications are subject to change without notice. Some requirements may vary from country to country. For more information, contact your authorized A-dec dealer.

# Monitor Mount Adjustments (Clutch)

## Friction Adjustment

### Tilt Friction

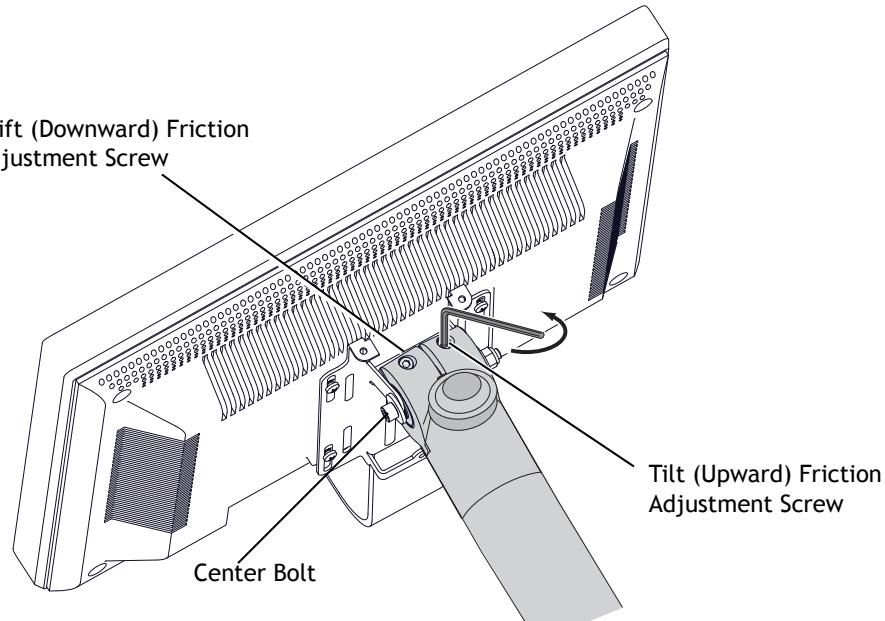
To adjust the tilt friction, tighten or loosen the tilt friction adjustment screw located on the top of the monitor mount. Tilt is the angling of the monitor upwards.

### Drift Friction

To adjust the drift friction, tighten or loosen the drift friction adjustment screw located on the top of the monitor mount. Drift is the movement of the monitor downward.

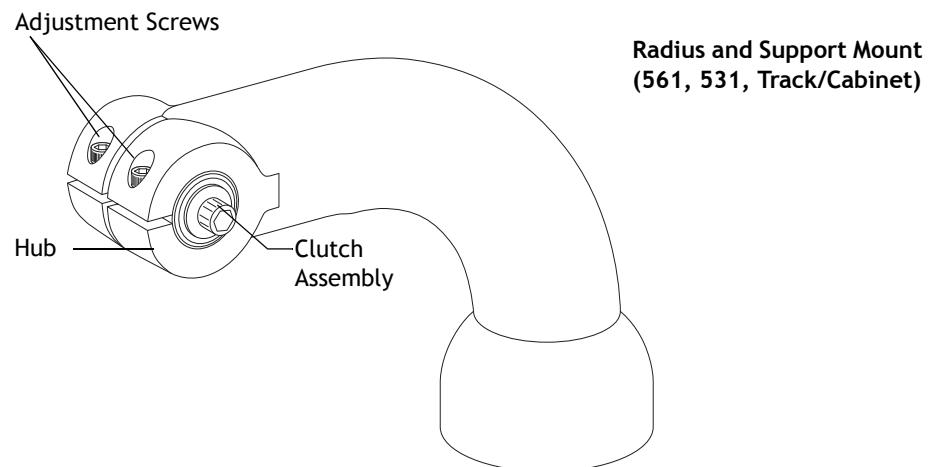
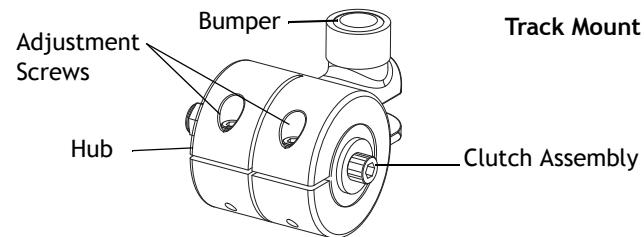


**NOTE** For any adjustment to work properly, the center bolt must be tightened.



## Clutch Assembly

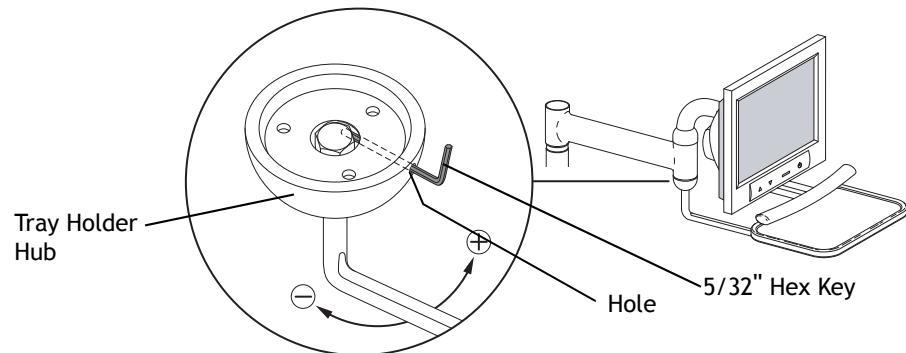
The clutch assembly provides tilt and drift movement to the monitor. Use the adjustment screws to adjust the tilt and drift.



## Tray Holder Tension Adjustment (Support Side, Model 561)

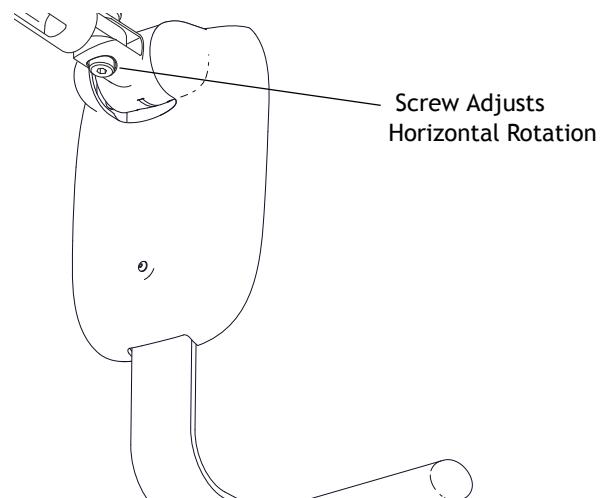
The tension adjustment screw for the tray holder is located in the hub of the tray holder arm.

1. Locate the small hole in the tray holder hub, and insert a 5/32" hex key through the hole.
2. Rotate the tray support arm to adjust the tension (right to increase tension, left to decrease tension).



## Panning Friction Adjustment (Track Mount)

Use a 3/16" hex key to tighten or loosen the panning friction adjustment screw on the track mount until it freely rotates.



# Monitor Mount Adjustments (Handle)

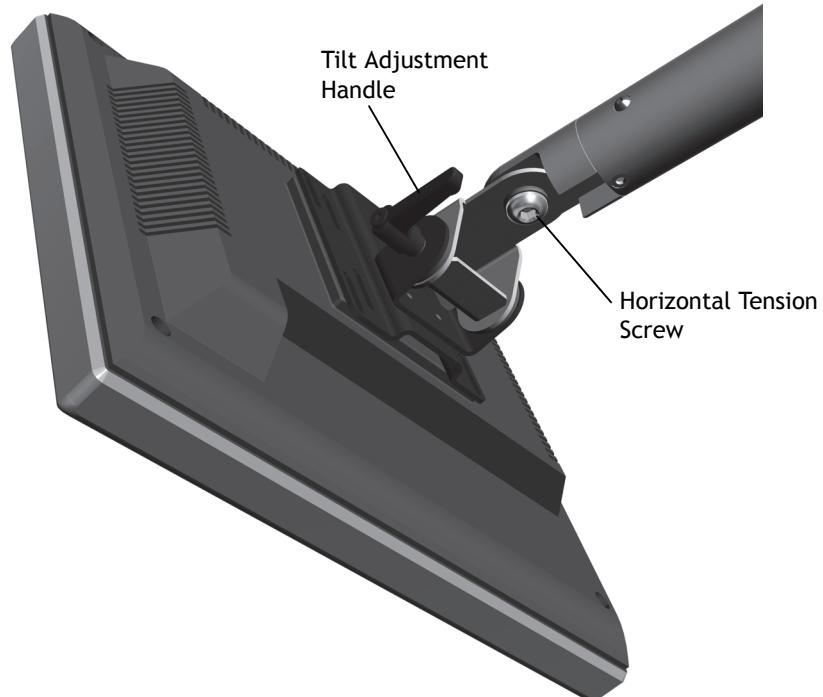
## Tilt Adjustment

The monitor mount includes a tilt adjustment handle. While holding the monitor, turn the handle to the left and position the monitor. Turn the handle to the right to lock the tilt in position.

## Horizontal Pivot

Adjust the horizontal pivot behind the monitor using a 5/16" hex key.

## Monitor Adjustments









**A-dec Headquarters**  
2601 Crestview Drive  
Newberg, OR 97132 USA  
Tel: 1.800.547.1883 Within USA/Canada  
Tel: 1.503.538.7478 Outside USA/Canada  
Fax: 1.503.538.0276  
[www.a-dec.com](http://www.a-dec.com)

*International Distribution Centers*

**A-dec United Kingdom**  
*EU Authorized Representative*  
Austin House, 11 Liberty Way  
Nuneaton, Warwickshire CV11 6RZ  
England  
Tel: 0800 ADECUK (233285) Within UK  
Tel: +44 (0) 24 7635 0901 Outside UK  
[www.a-dec.co.uk](http://www.a-dec.co.uk)

**A-dec Australia**  
Unit 8  
5-9 Ricketty Street  
Mascot, NSW 2020  
Australia  
Tel: 1.800.225.010 Within Australia  
Tel: +61 (0)2 8332 4000 Outside Australia  
[www.a-dec.com.au](http://www.a-dec.com.au)

