



Service Guide

A-dec Dental Lights and Monitor Mounts

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Regulatory Information

Regulatory information mandated by agency requirements is provided in the *Regulatory Information, Specifications, and Warranty* document (p/n 86.0221.00), which is available in the Document Library at www.a-dec.com. This document includes:

- Serial number identification
- Software revisions
- Warranty statement
- Deluxe touchpad help messages
- Intended application and use statements
- Identification of symbols
- Environmental specifications
- Classification of equipment
- Electrical rating and electromagnetic information
- Chair load capacity

Product Service

Product service is available through your local authorized A-dec dealer. For service information, or to locate an authorized dealer, contact A-dec at 1.800.547.1883 in the USA and Canada or 1.503.538.7478 worldwide, or visit www.a-dec.com.

A-dec Dental Lights and Monitor Mounts Service Guide

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Overview

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
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

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

Web Contact

Partner Resources websites: www.a-dec.biz.

Other Sources of Information

Dental Lights and Monitor Mounts 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.

Other A-dec Service Documents

The *A-dec 311, 411, and 511 Dental Chairs Service Guide* (p/n 86.0380.00) contains service, maintenance, and troubleshooting content. The *A-dec 311, 411, and 511 Dental Chairs Service Reference* (p/n 86.0381.00) contains illustrated parts breakdown content. Circuit board components and flow diagrams are in both documents. These documents include cuspidors, floor boxes, and support centers.

The *A-dec 300, 400, and 500 Delivery Systems Service Guide* (p/n 86.0382.00) contains service, maintenance, and troubleshooting content. The *A-dec 300, 400, and 500 Delivery Systems Service Reference* (p/n 86.0383.00) contains illustrated parts breakdown content. Circuit board components and flow diagrams are in both documents. These documents include cuspidors, floor boxes, and support centers.

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 (Halogen 3-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 (Halogen 2-Axis)
			
Focal Range	16" - 30" (400 mm - 750 mm)	18" - 31" (457 - 787 mm)	18" - 31" (457 - 787 mm)
Bulb	n/a	Quartz Xenon Halogen, single-end prongs	Quartz Xenon Halogen, single-end prongs
Bulb Rating	LED: White HBLED, 88-92 CRI	17 V / 95 W	17 V / 95 W
Color temperature	White 5,000 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" (84 mm x 160 mm at 701 mm)	3.3" x 6.3" at 27.6" (84 mm x 160 mm at 701 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)	High: 24,000 lux (2230 fc) Medium: 20,000 lux (1858 fc) Composite: 8,000 lux (743 fc)
Heat Output (BTU per Hour)	24	325	325

* For electrical specifications, identification of symbols, and other regulatory requirements, refer to the *Regulatory Information, Specifications, and Warranty Instructions for Use* (p/n 86.0221.00).

** 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



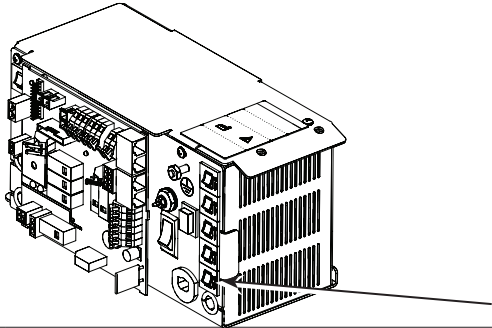
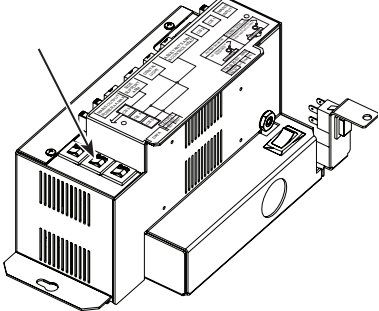
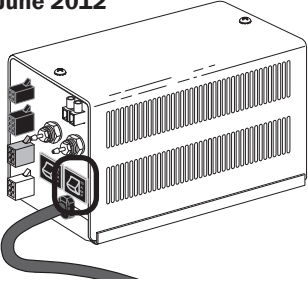
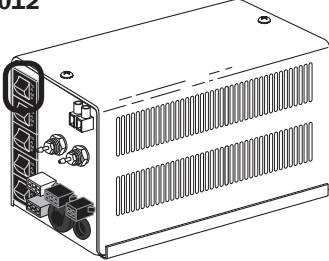
LED, 371/372, 571/572 Dental Light on
A-dec 300 Chair and 2" Post Mount Support Mount

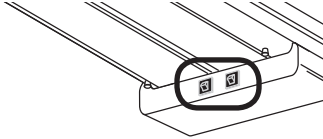
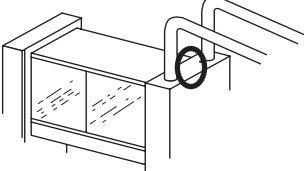
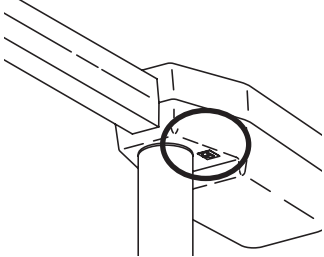
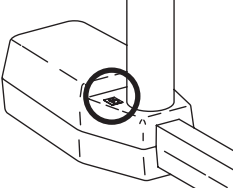
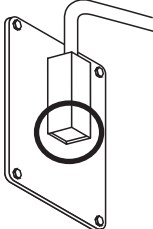


LED, 371/372, 571/572 Dental Light on
A-dec 500 Chair Support Side Mount

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 311/411		
Under Motor Pump Cover		
A-dec 511		
Under Motor Pump Cover		
Cascade,® Decade,® Performer,® A-dec 200, early model A-dec chairs	Before June 2012	Effective June 2012
Under the Utility Floor Box Cover		

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 200, 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.

Standard Touchpad



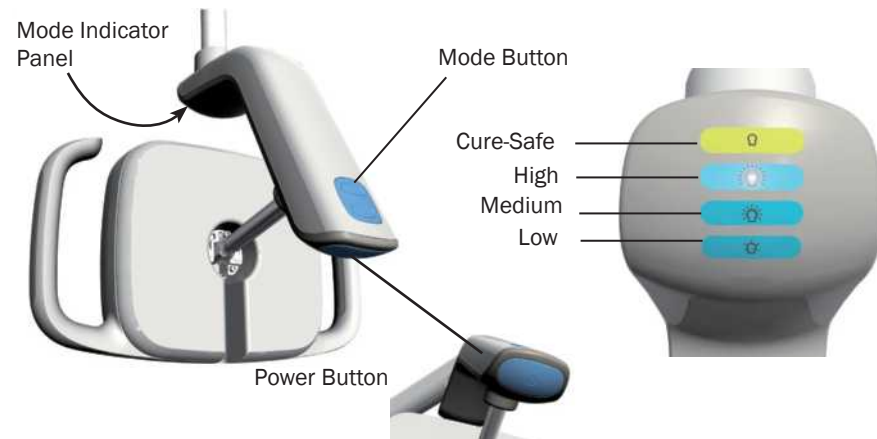
Deluxe Touchpads



Power and Intensity Settings

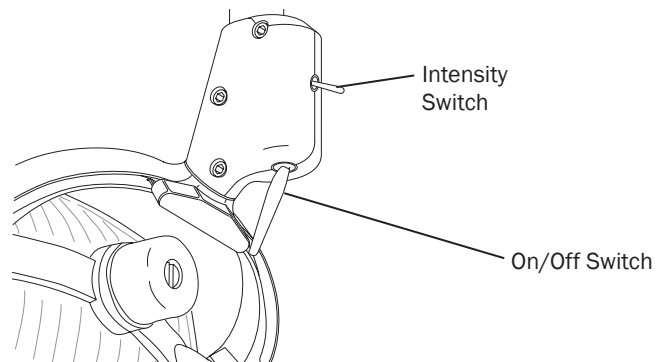
A-dec LED Dental Light Manual On/Off and Intensity

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.



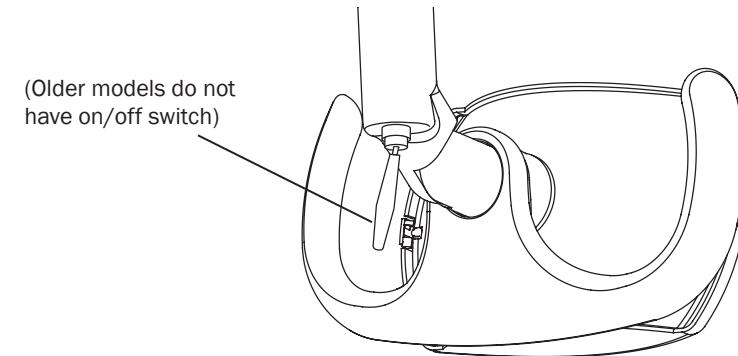
A-dec 571/572 and 6300 Dental Light (Halogen 3-Axis) Manual On/Off and Intensity

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.



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.

Auto On/Off Function

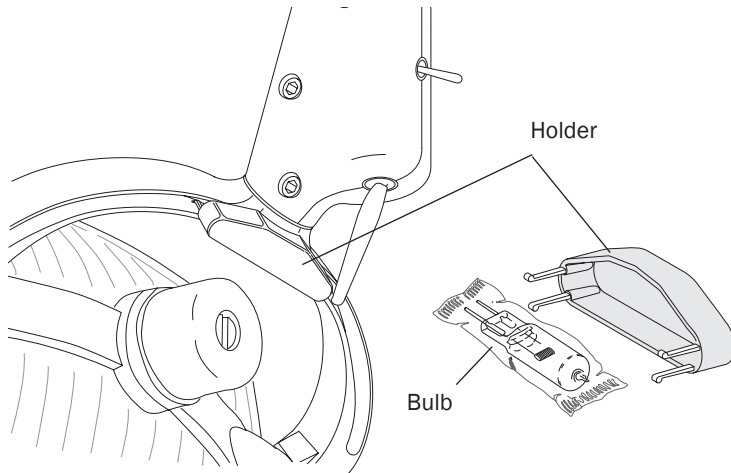
All of the dental lights turn on when the chair back reaches a preset operating position. When the chair back moves out of the operating position, the light automatically turns off.

- 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 (Halogen 3-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.



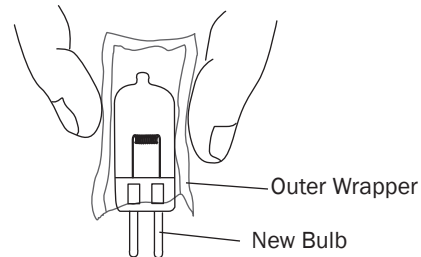
WARNING To avoid burning your fingers, allow the light shield to cool before removing. Never operate the dental light with the light shield removed. The light shield contains UV blocking additives. The light shield is also your protection in the unlikely event that the bulb shatters.

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.

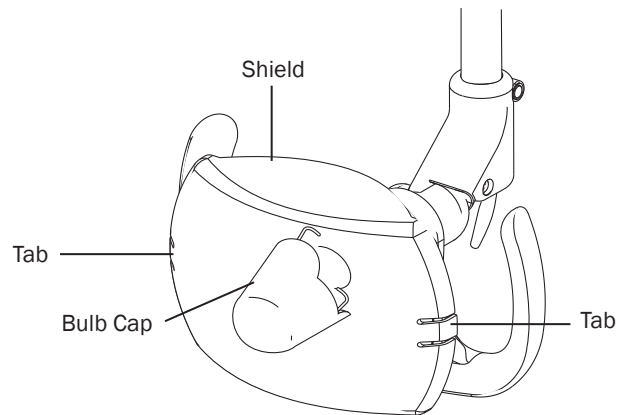
A-dec 371/372 Dental Light (Halogen 2-Axis)

A spare bulb is included with your dental light. 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.



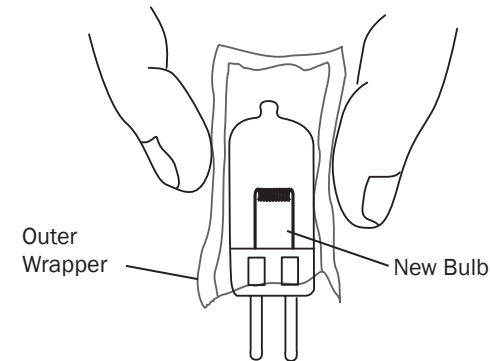
CAUTION Take care when handling the bulb. The bulb base is fragile and can break under excessive pressure.

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.

3. Release the toggles on either side of the light to remove the light shield.
4. 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.

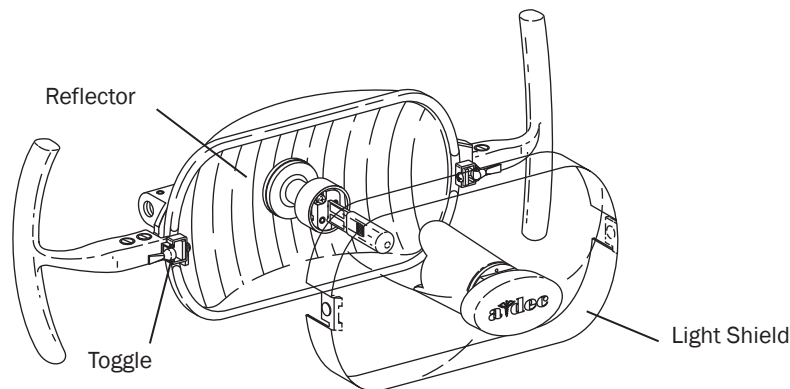
If necessary, soak the pad or cloth with water or with a diluted solution of mild dish washing liquid before cleaning. Make certain no residue remains on the surface. Do not use abrasives or chlorine (such as household bleach) on the surface of the reflector. These can damage or discolor the reflector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

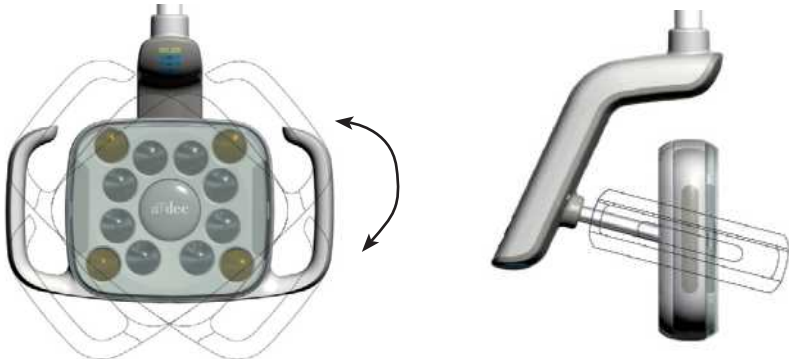
A-dec LED Dental Light Rotation Adjustments



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



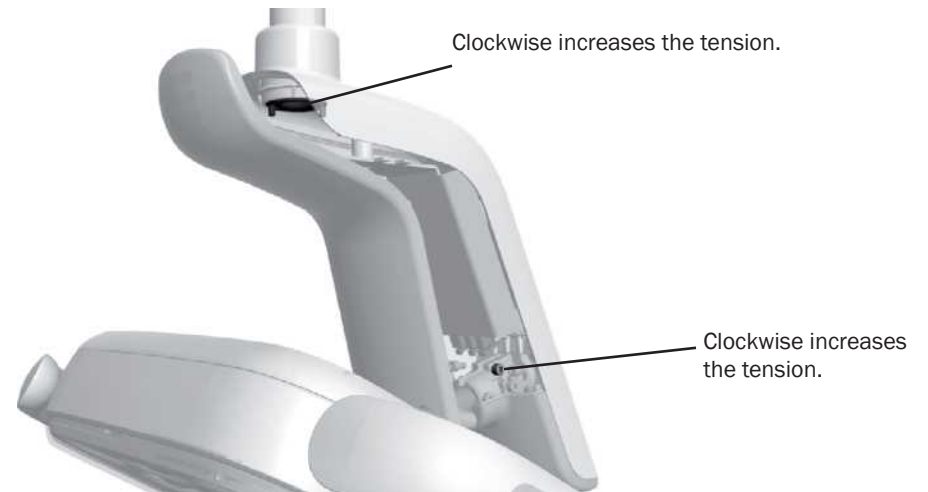
LED Light Horizontal and Diagonal Rotation Adjustment

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.

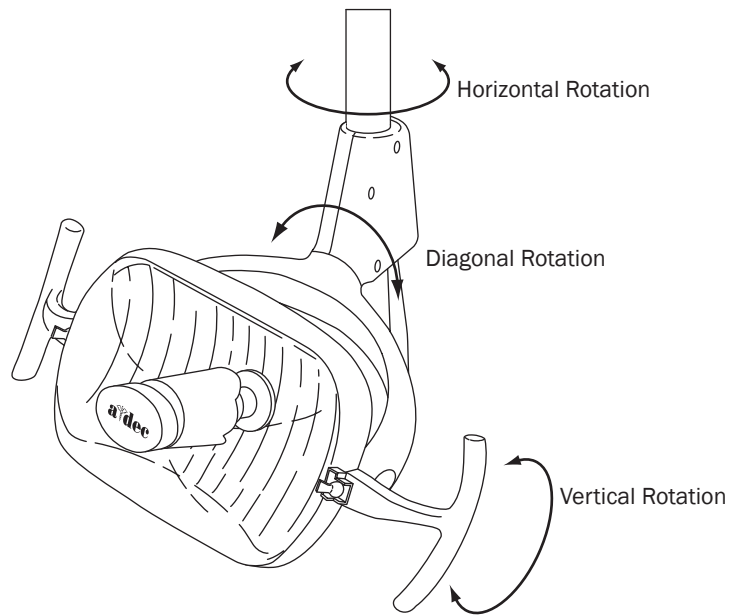


4. Use the three screws to install the indicator cover.

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

571/572/6300 Light Head Rotation

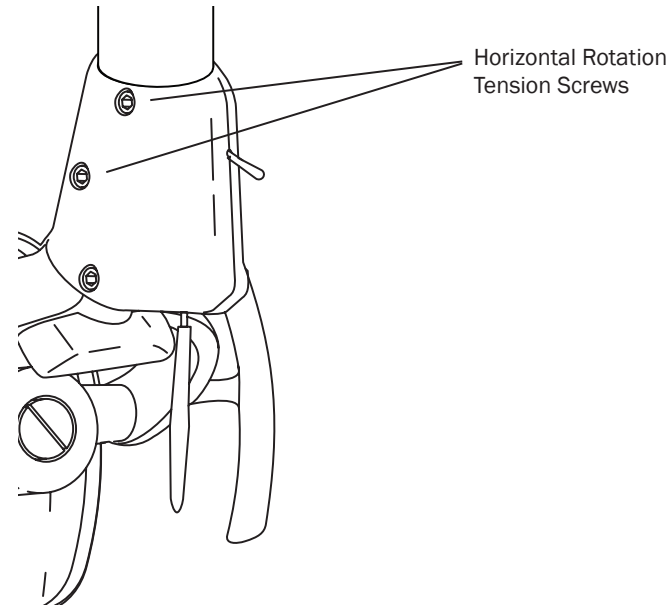
The light head needs adjusting if it is difficult to position, moves too easily, or drifts out of position.



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.

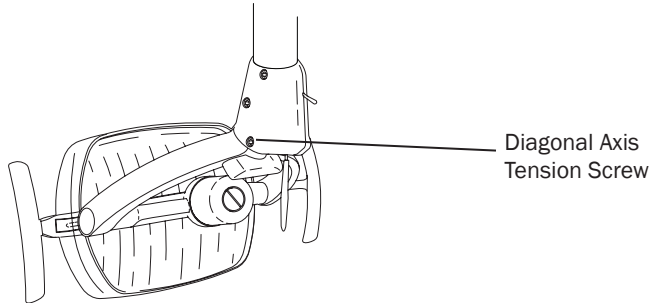
- Increase the tension by turning the screws clockwise.
- Loosen the tension by turning the screws counterclockwise.



571/572/6300 Diagonal Axis Rotation

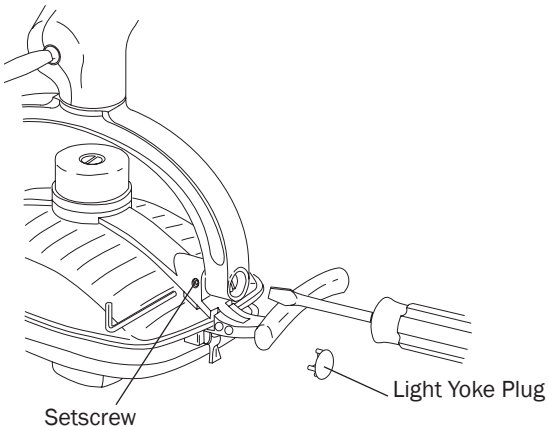
Adjust the screw at the bottom of the switch housing.

- 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

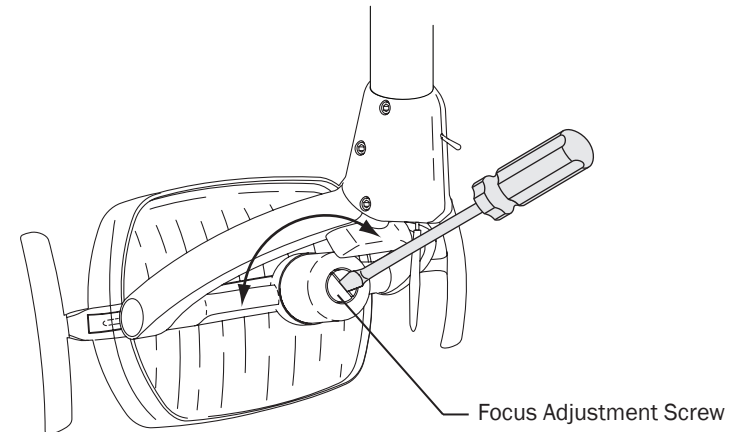
1. On one side of the light head, loosen the setscrew.
2. Remove the light yoke plug.



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

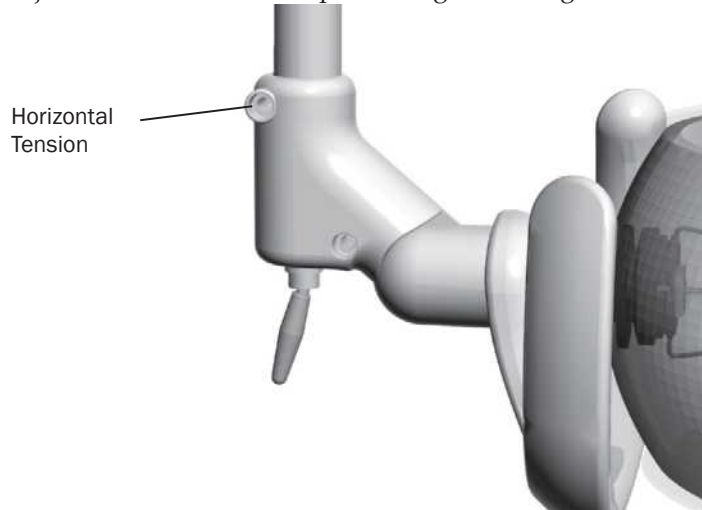
1. Place a white towel over the chair headrest to represent the oral cavity.
2. Position the light head at the distance normally used when working in the oral cavity (select a distance representative of most procedures).
3. Turn the light on.
4. Use a large screwdriver to turn the focus adjusting screw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



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

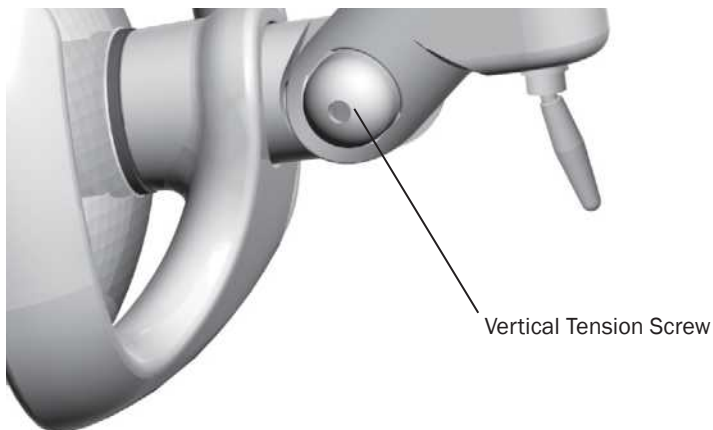
371/372 Horizontal Rotation

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.
 - If the dental light drifts down, turn the nut clockwise.
 - 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 20
- A-dec LED Dental Light (570L – 577L) Wiring, page 24



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 32
- A-dec 571/572 and 6300 Dental Light (Halogen 3-Axis) Wiring, page 36



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

- A-dec 371/372 Dental Light (Halogen 2-Axis) Circuit Board Components, page 42
- A-dec 371/372 Dental Light (Halogen 2-Axis) Wiring, page 49




A-dec LED Dental Light Circuit Board Components

LED Driver Circuit Board Identification

Part Number: 43.0200.00

Item	Description
1	J1 - 0~ terminal strip input
2	J1- 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 Dental Light Circuit Board Indicators

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 Array Board Indictors


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



LED Dental Light Indicator Light Circuit Board Identification

Part Number: 43.0217.00

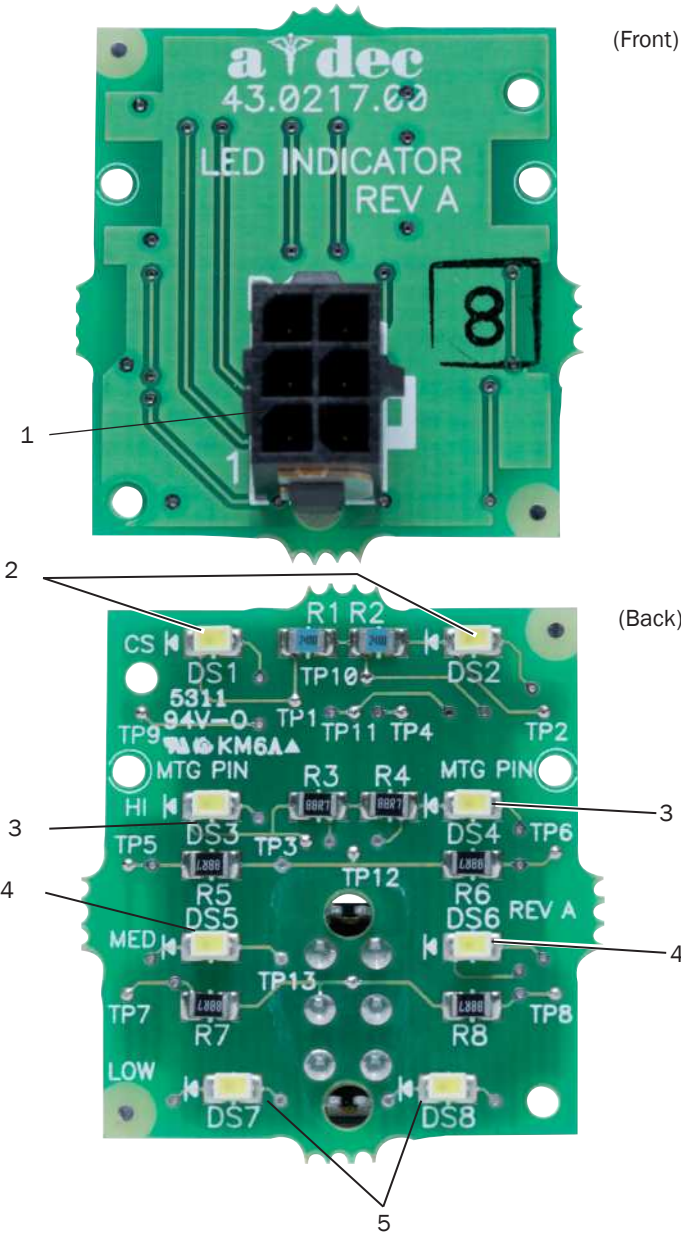
Item	Description
1	P1 - Indicator board input connector
2	DS1 and DS2 - Cure-safe mode
3	DS3 and DS4 - High mode LEDs
4	DS5 and DS6 - Medium mode LEDs
5	DS7 and DS8 - Low mode LEDs



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.

LED Indicator Light Board Indicators

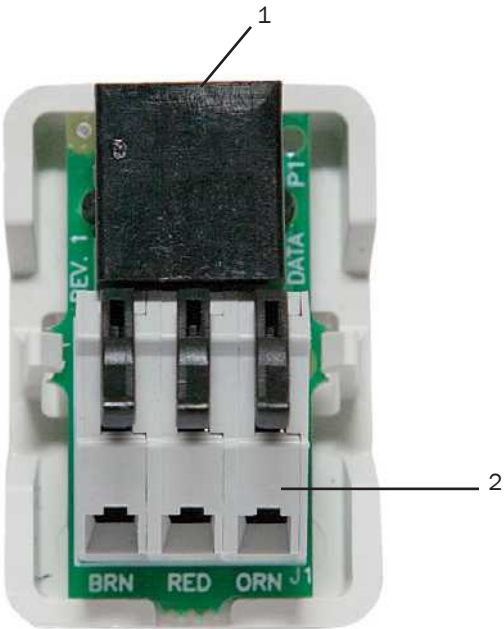
Light Mode	Indicator Board Status	Description
Off	Off	All indicator board LEDs off: device is disconnected, no power, or circuit board has failed
Cure-safe	Off Yellow steady Location	Cure-safe mode is off Cure-safe mode is on Top of indicator board
High	Off Blue steady Location	High mode is off High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



LED Dental Light Terminal to CAN Adapter Board Identification

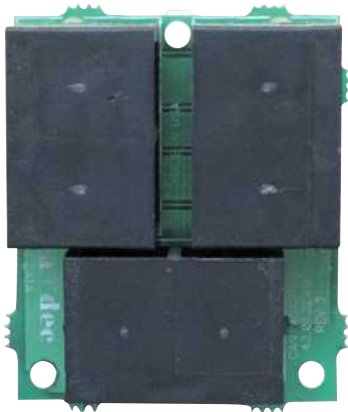
Part Number: 43.0236.00

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



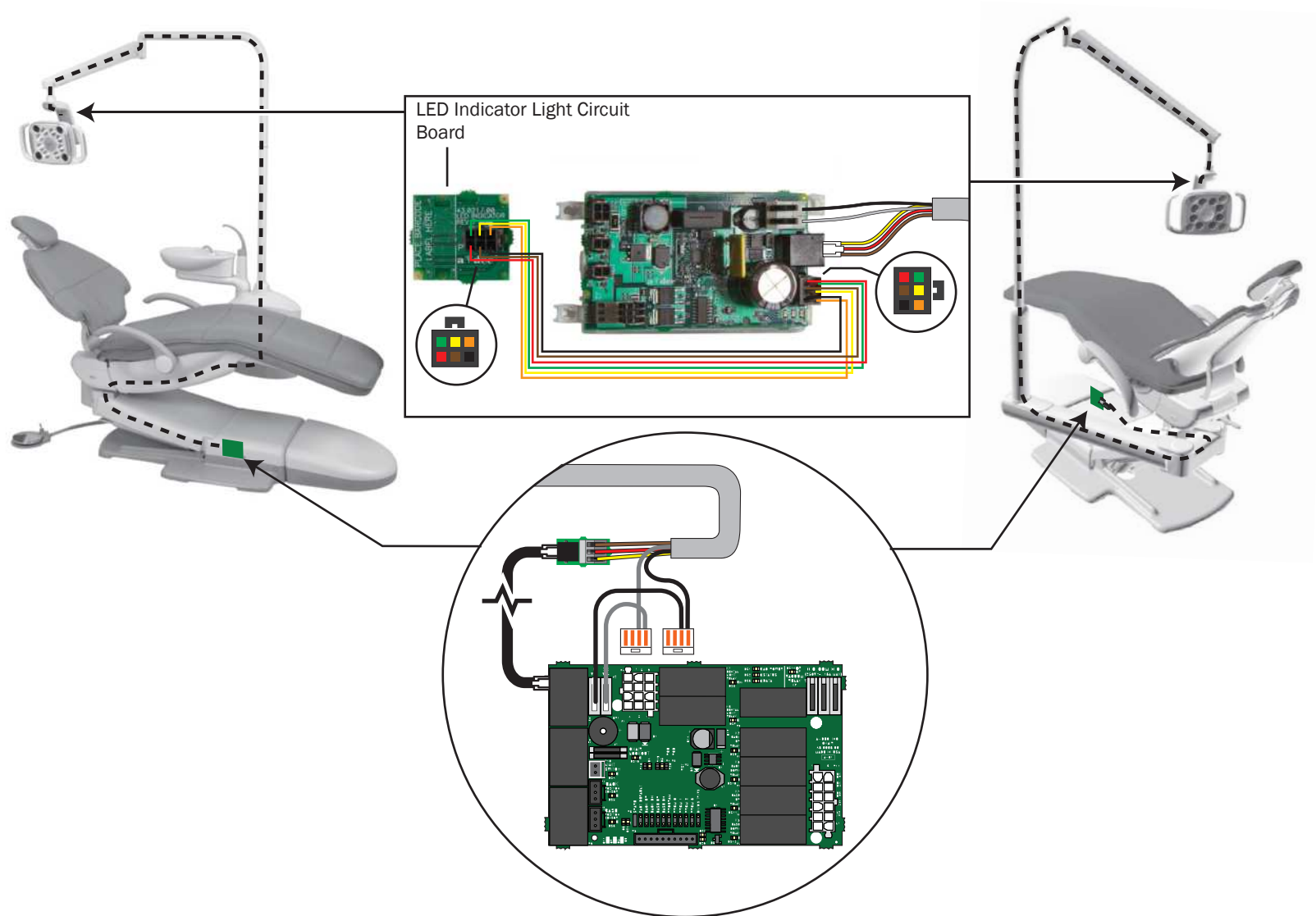
CAN Adaptor Board

Part Number: 43.0132.00

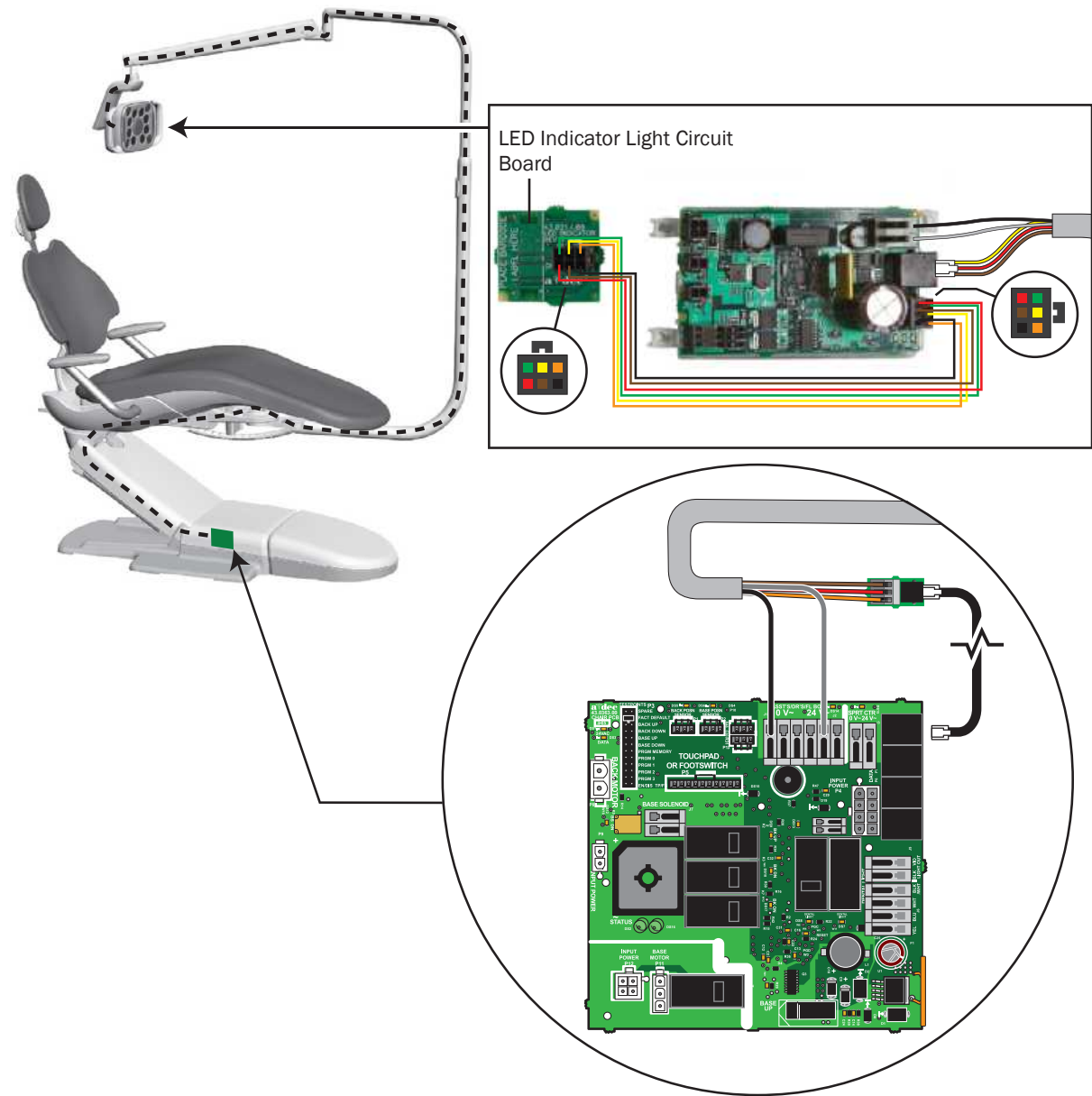


A-dec LED Dental Light (570L – 577L) Wiring

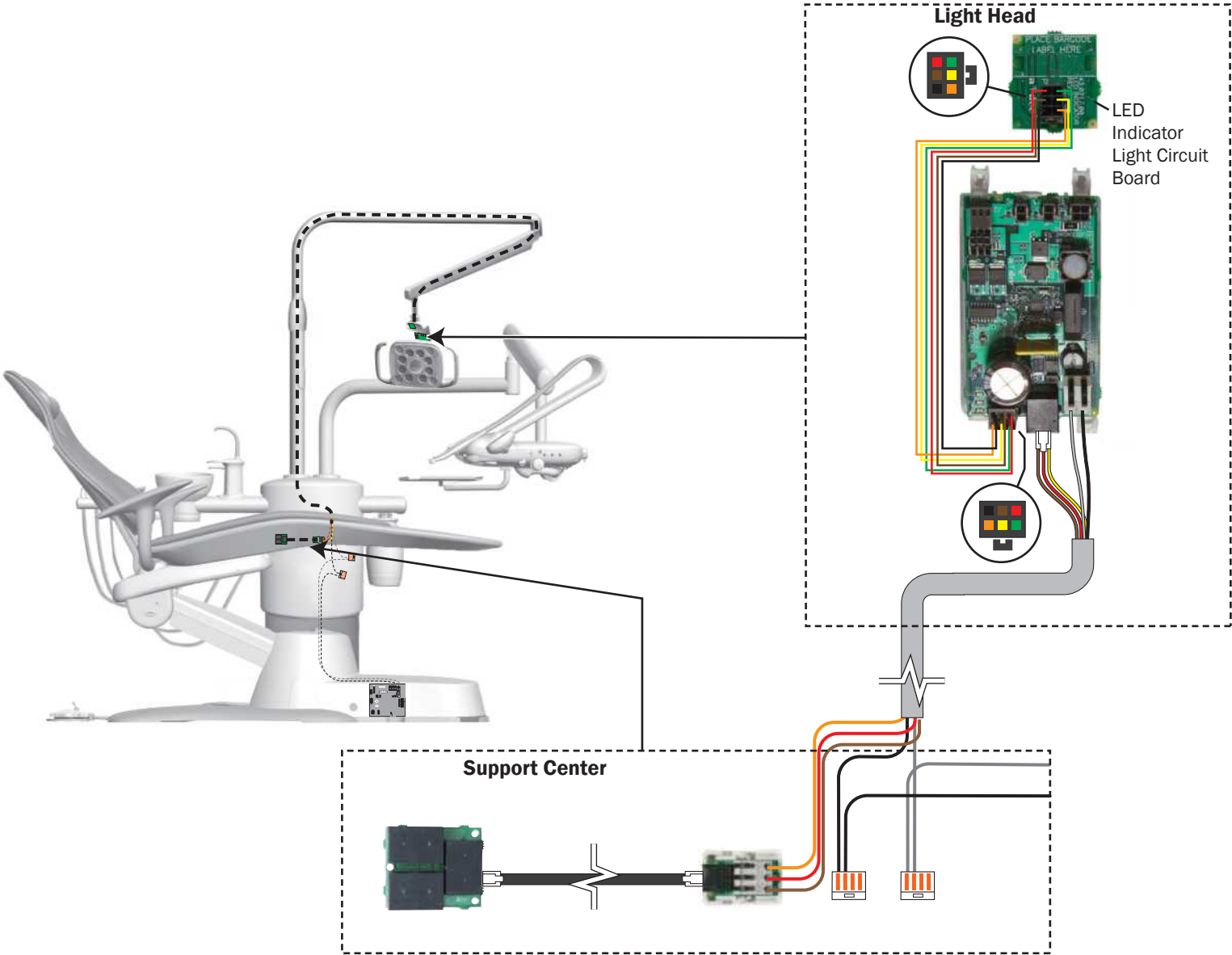
571L on an A-dec 511 Chair



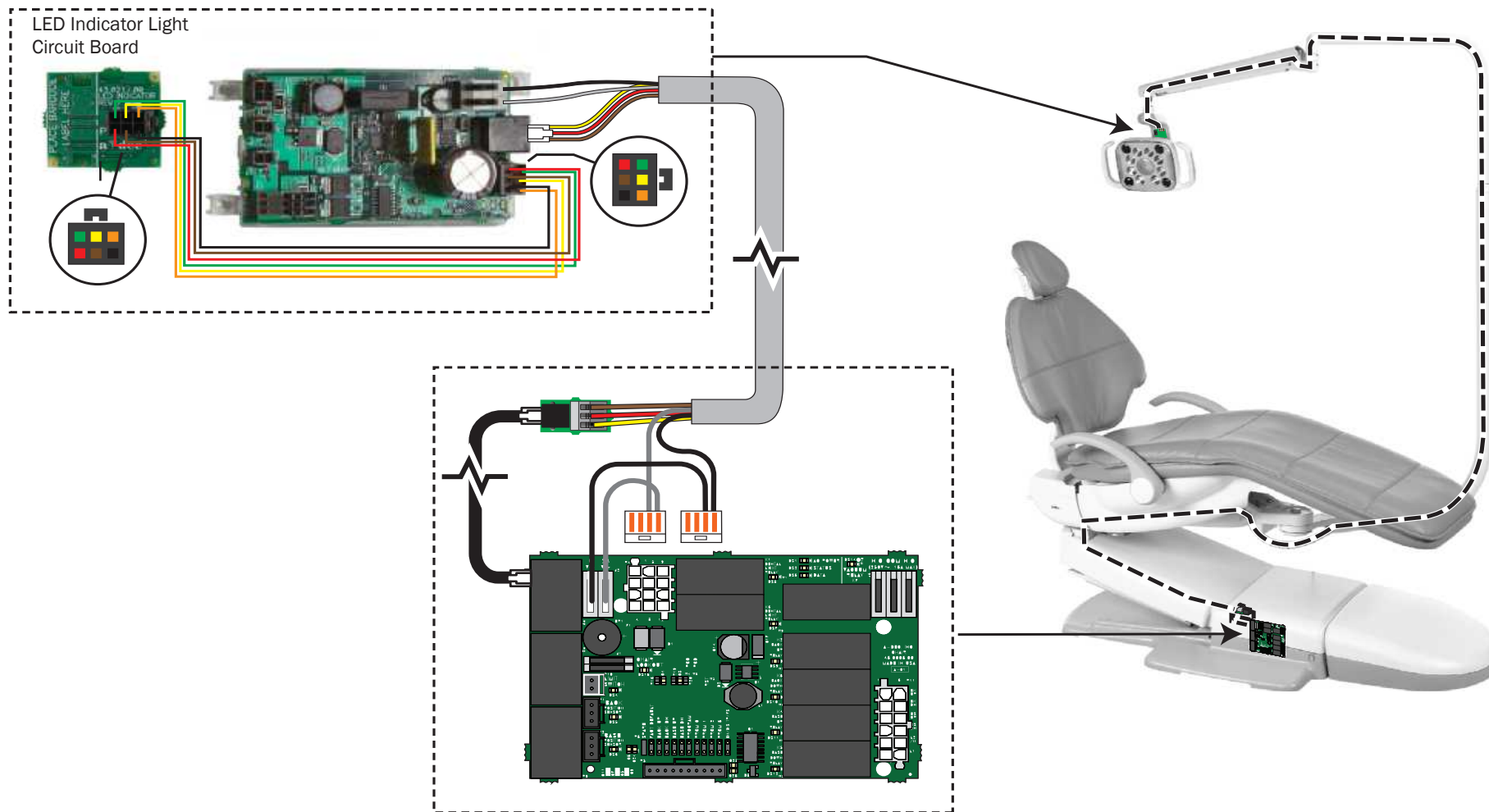
571L on an A-dec 411 Chair



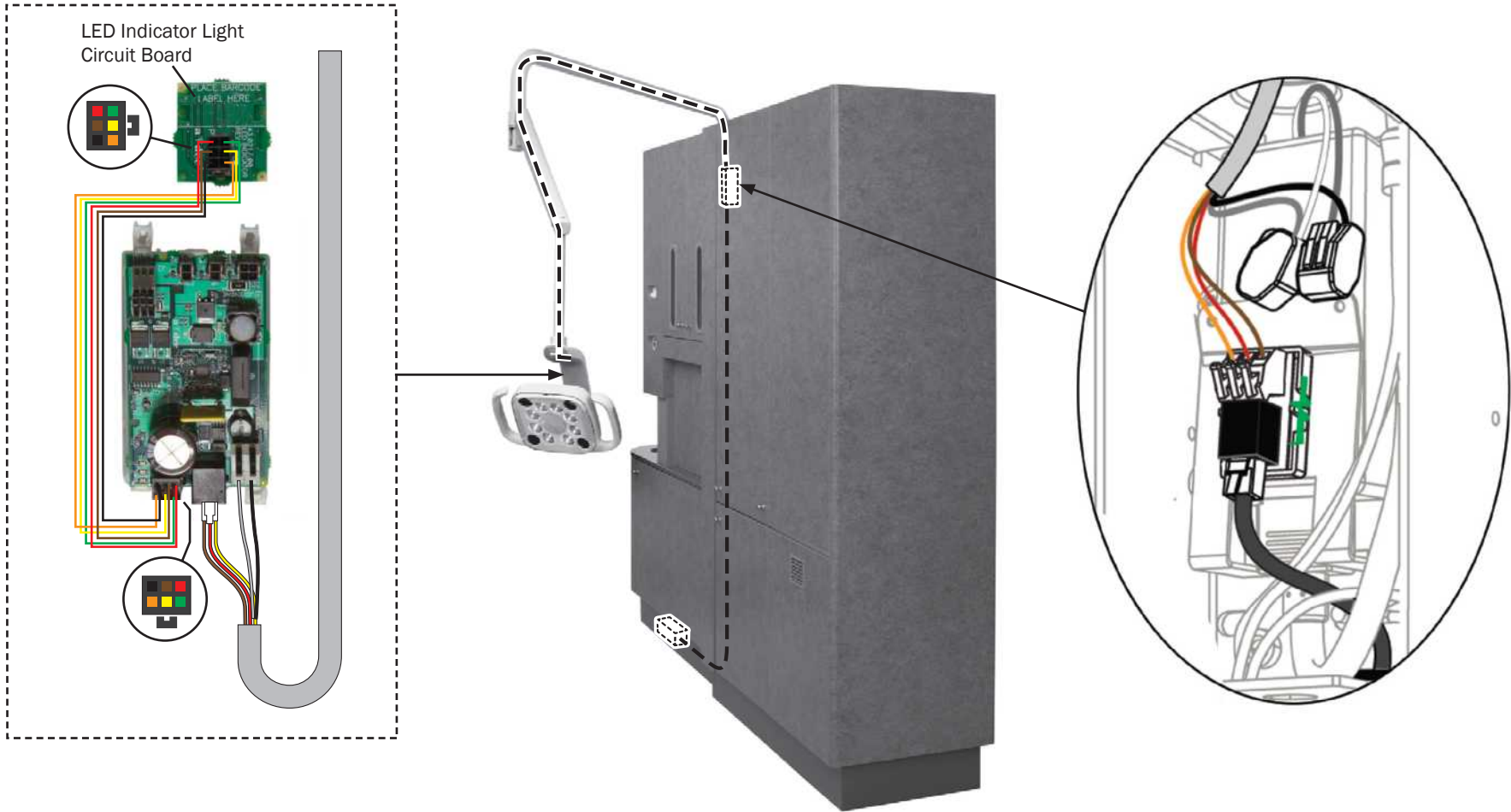
571L on an A-dec 311 Chair



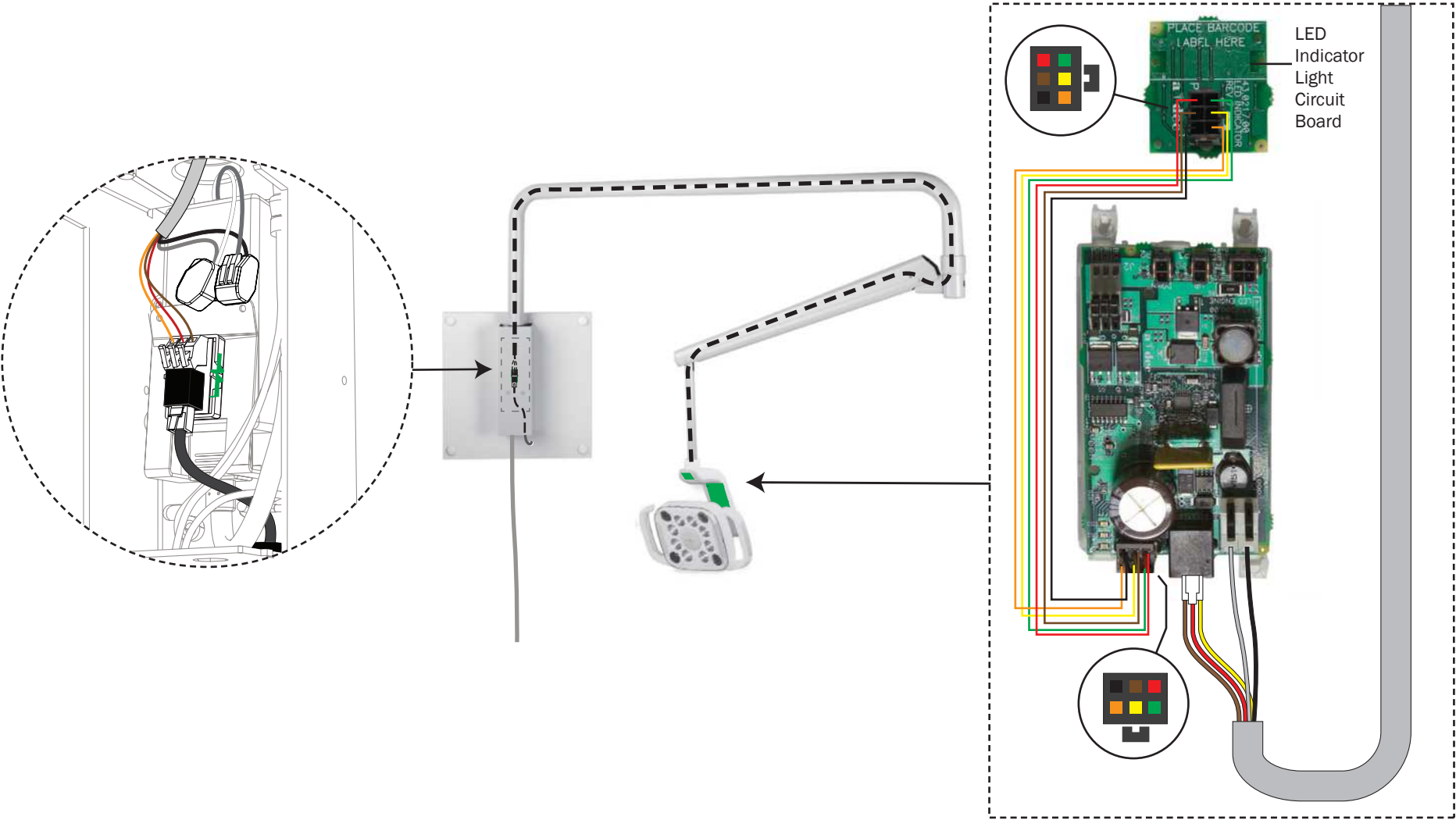
572L on an A-dec 511 Chair, Radius Arm Mounted



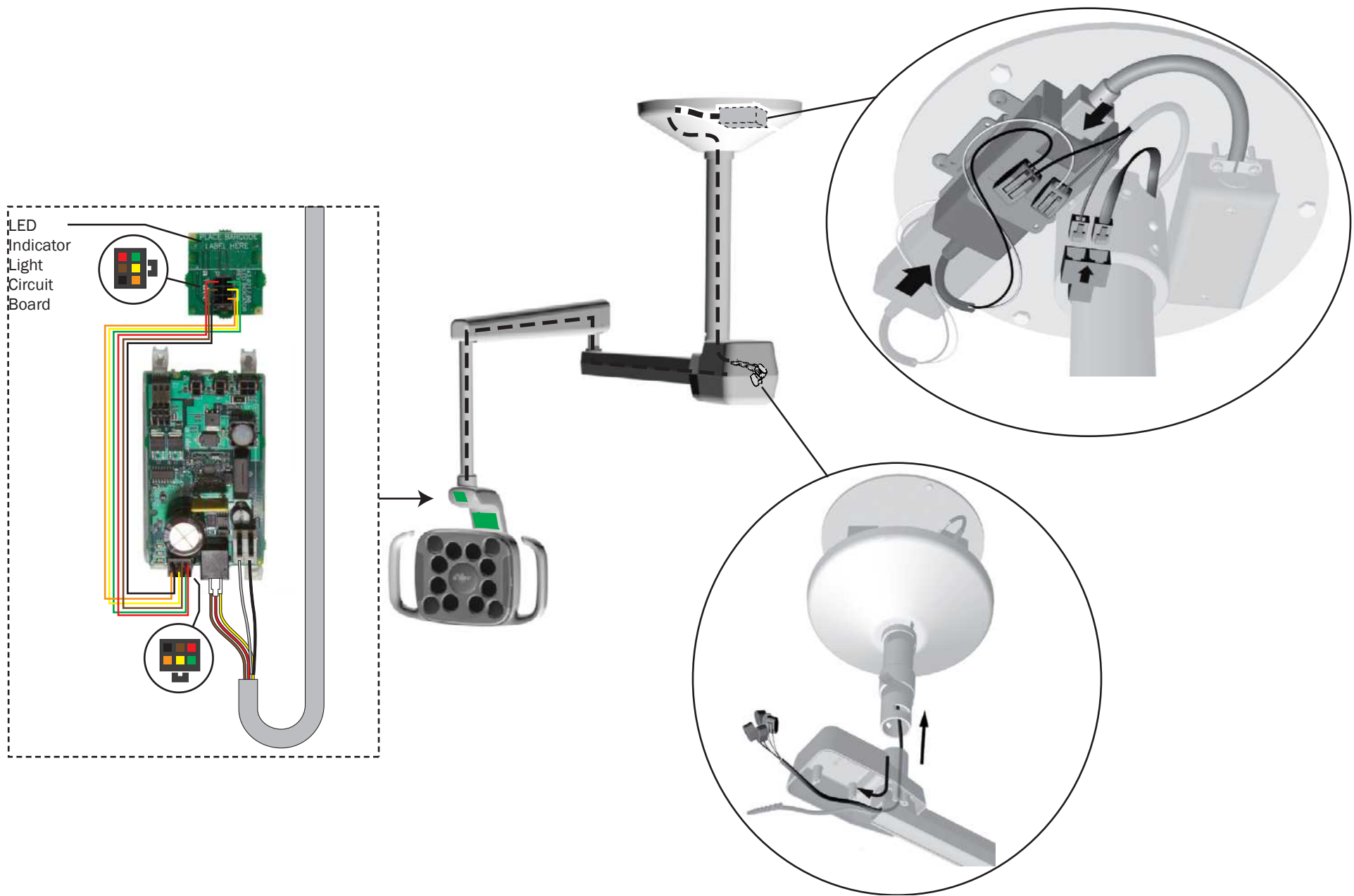
574L Cabinet Mounted



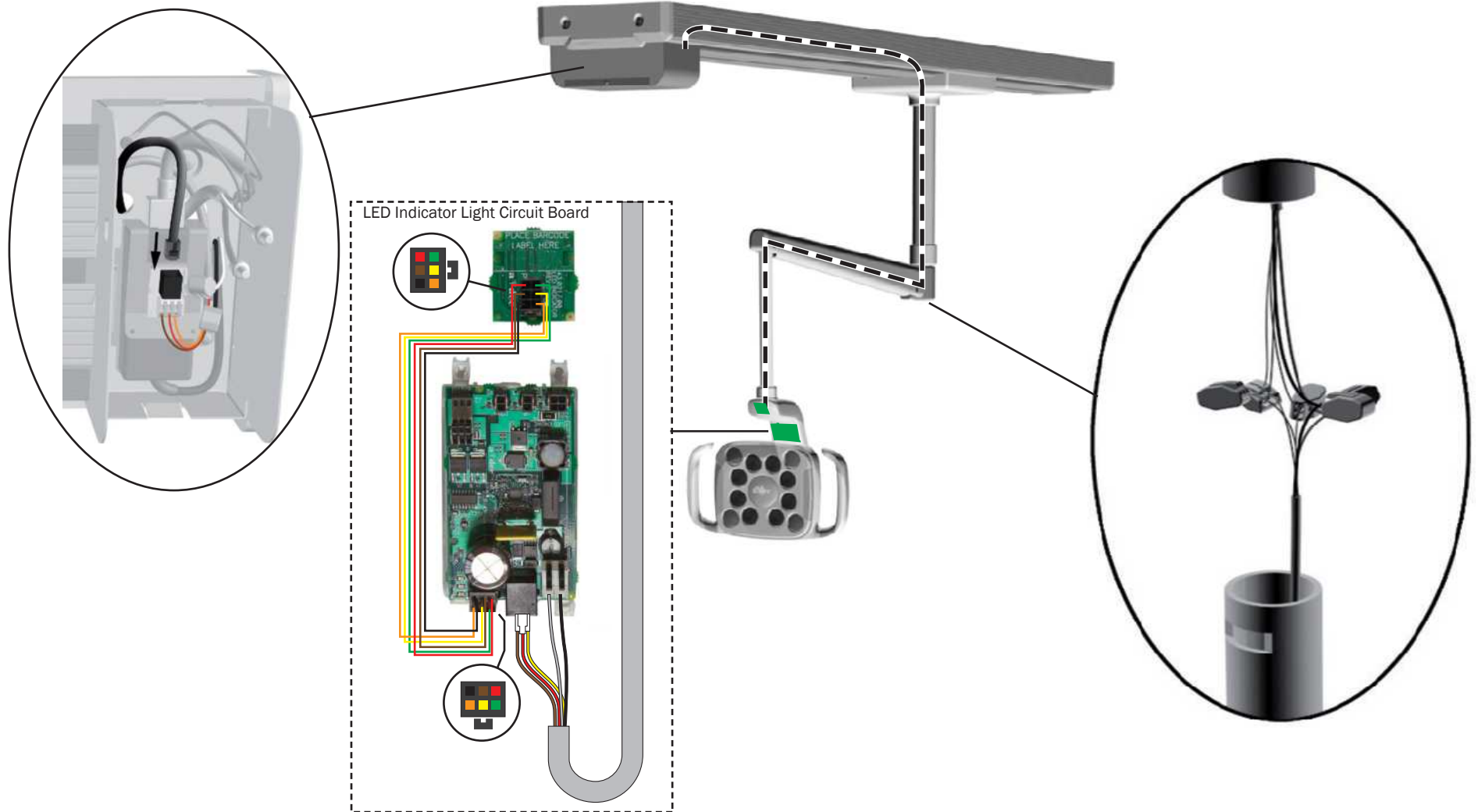
575L Wall Mounted



576L Ceiling Mounted



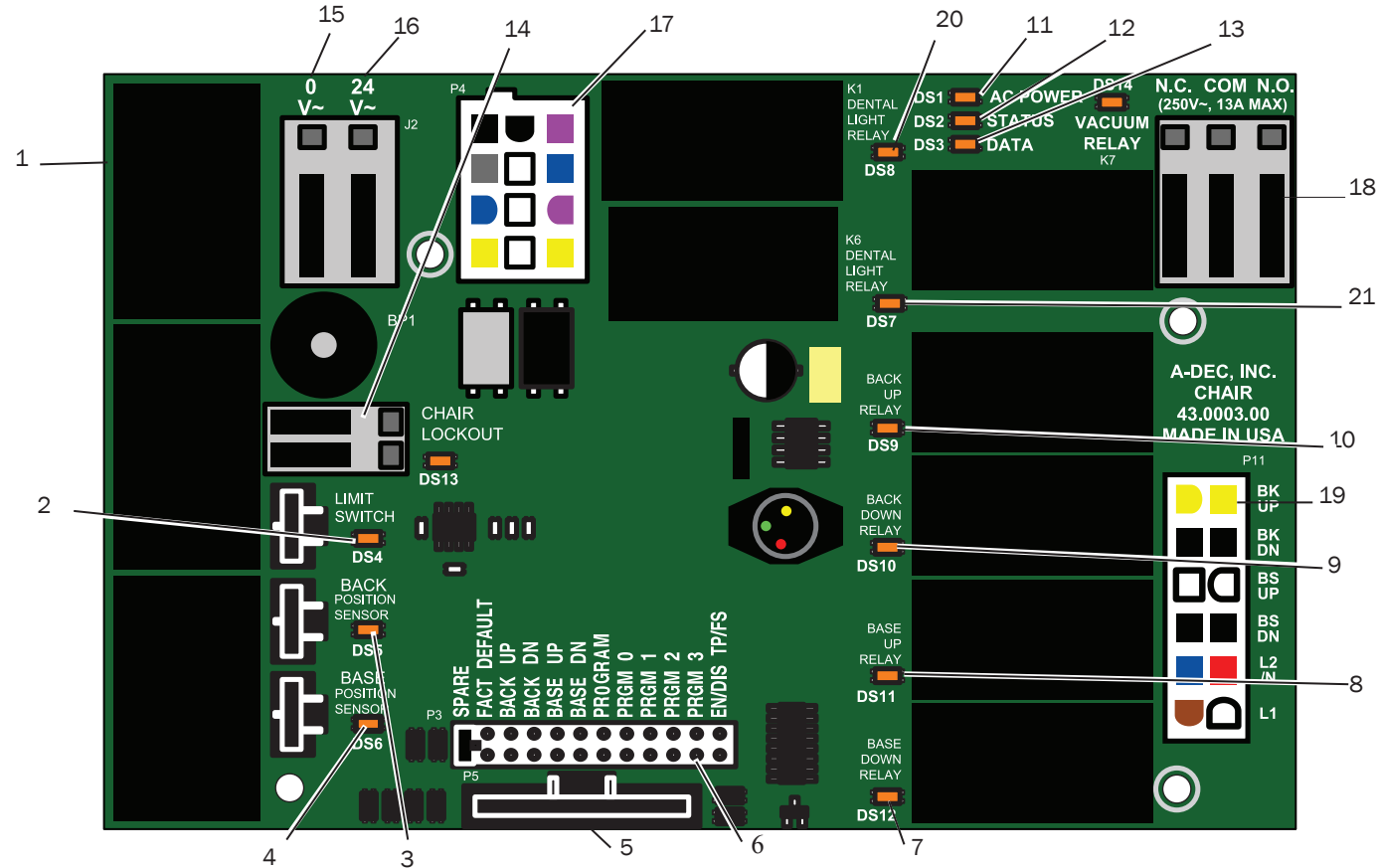
577L Track Mounted



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



571/572/6300 Dental Light Output Functions

Function	K1 (DS8)	K6 (DS7)	Output
Off	Off	Off	0 VAC
High intensity	On	Off	17 VAC
Composite intensity	Off	On	12 VAC
Medium Intensity	On	On	16 VAC

511 Chair Circuit Board Indicators

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

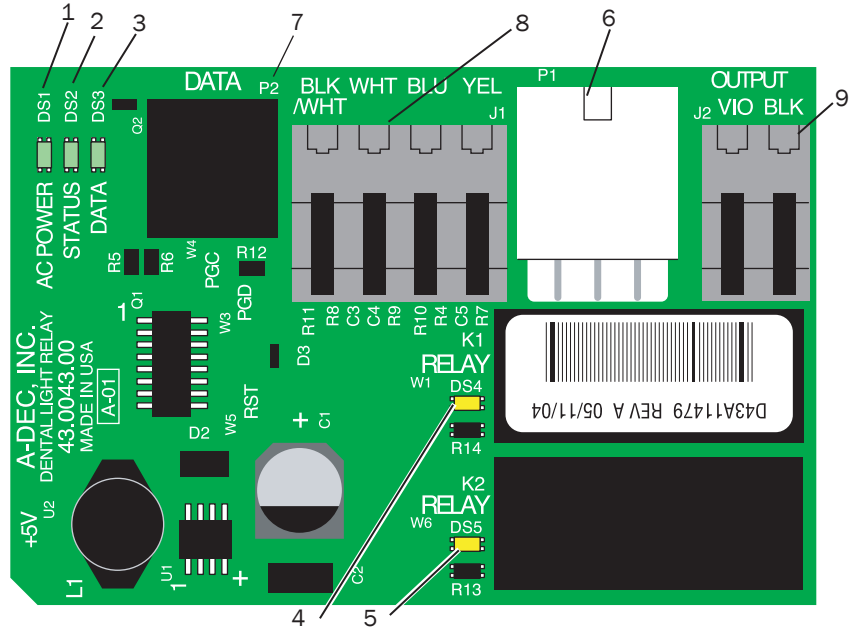
Item	Description
1	P7, P8, P9 - Data line ports
2	DS4 - Stop switch LED (limit switch) and P10 connector
3	DS5 - Back potentiometer LED and P1 connector
4	DS6 - Base potentiometer LED and P2 connector
5	P5 - Footswitch connector
6	P3 - Test points
7	DS12 - Base down LED and relay K5
8	DS11 - Base up 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 Functions

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 Indicators

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 P1 input power connector
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

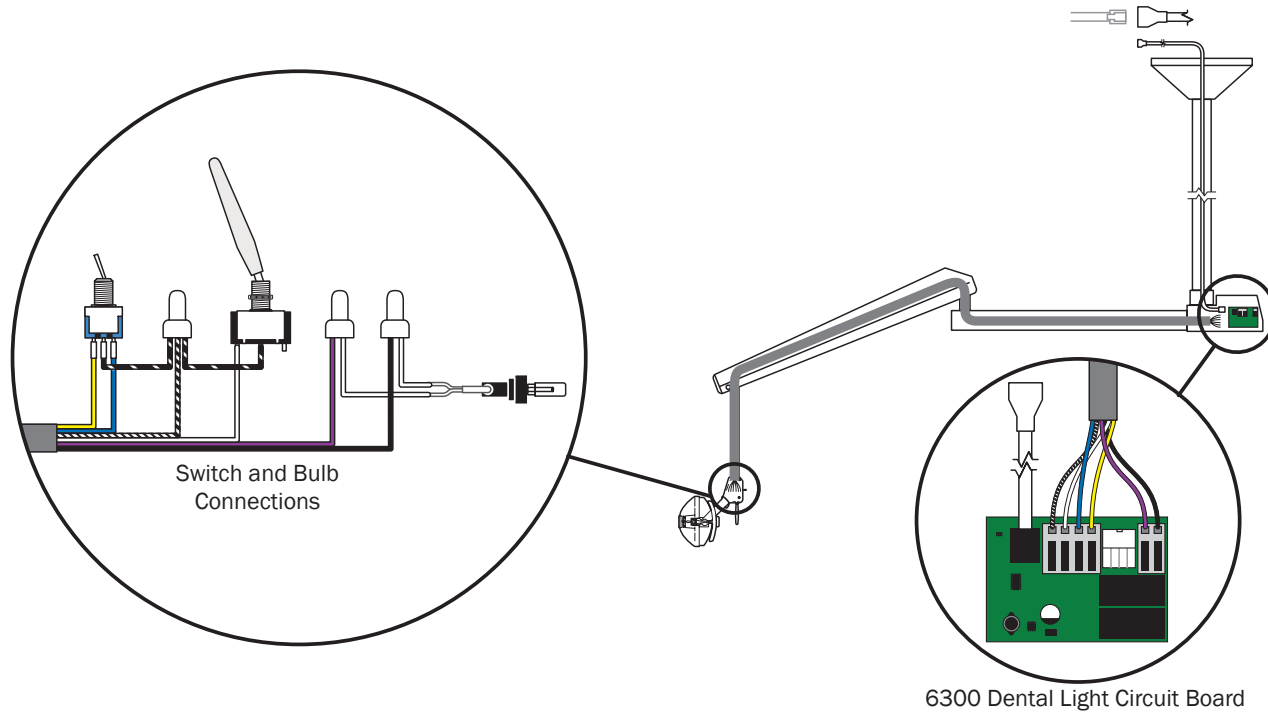
Item	Description
1	DS1 - AC power LED
2	DS2 - Status LED
3	DS3 - Data LED
4	DS4 - Dental light relay
5	DS5 - Dental light relay
6	P1 - Input power
7	P2 - Data line port
8	J1 - Toggle switch inputs
9	J2 - Dental light output power



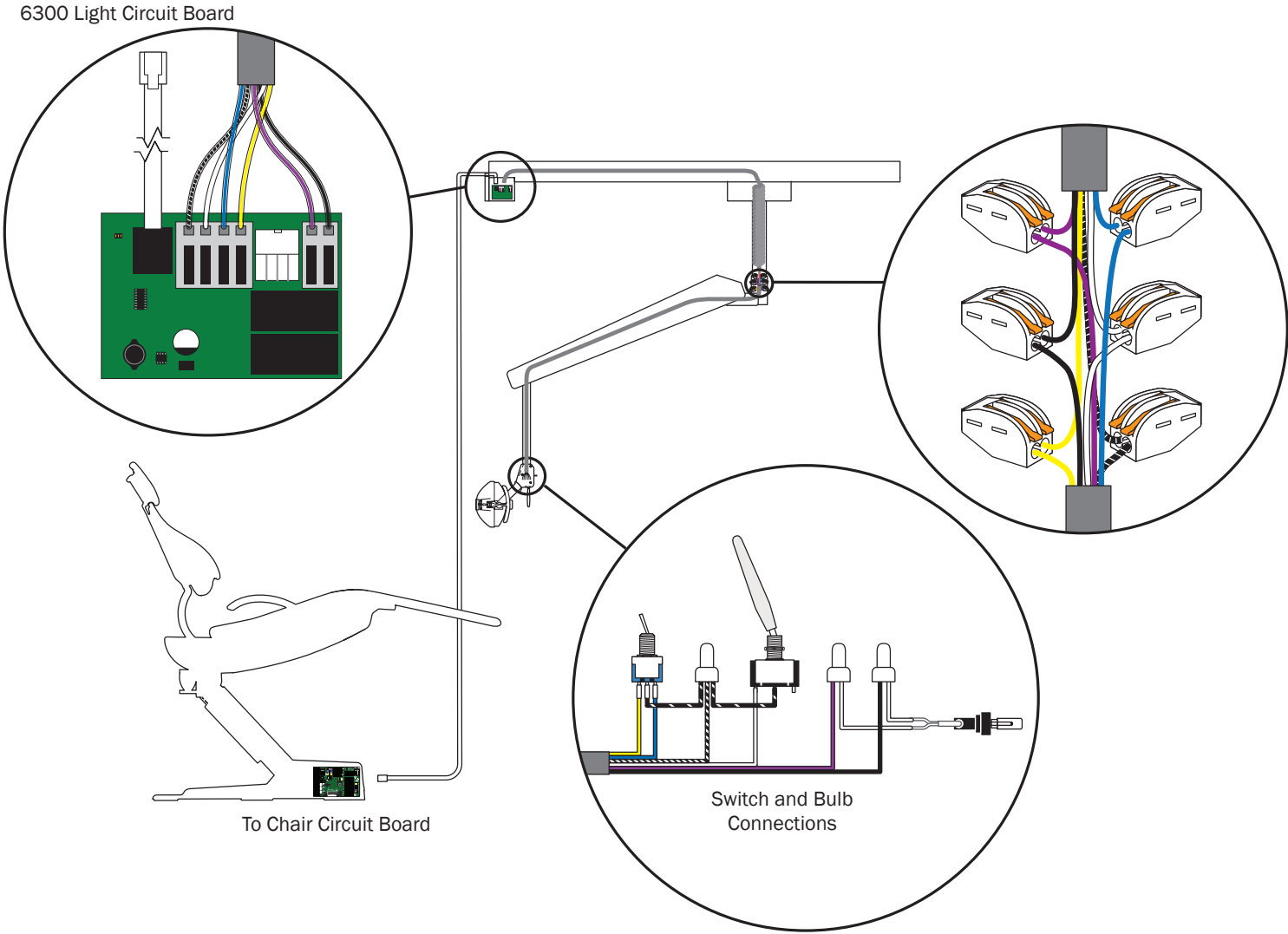
CAUTION Circuit boards are sensitive to static electricity. Electrostatic Discharge (ESD) precautions are required when touching a circuit board or making connections to or from the circuit board. Circuit boards should be installed only by an electrician or qualified service person.

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

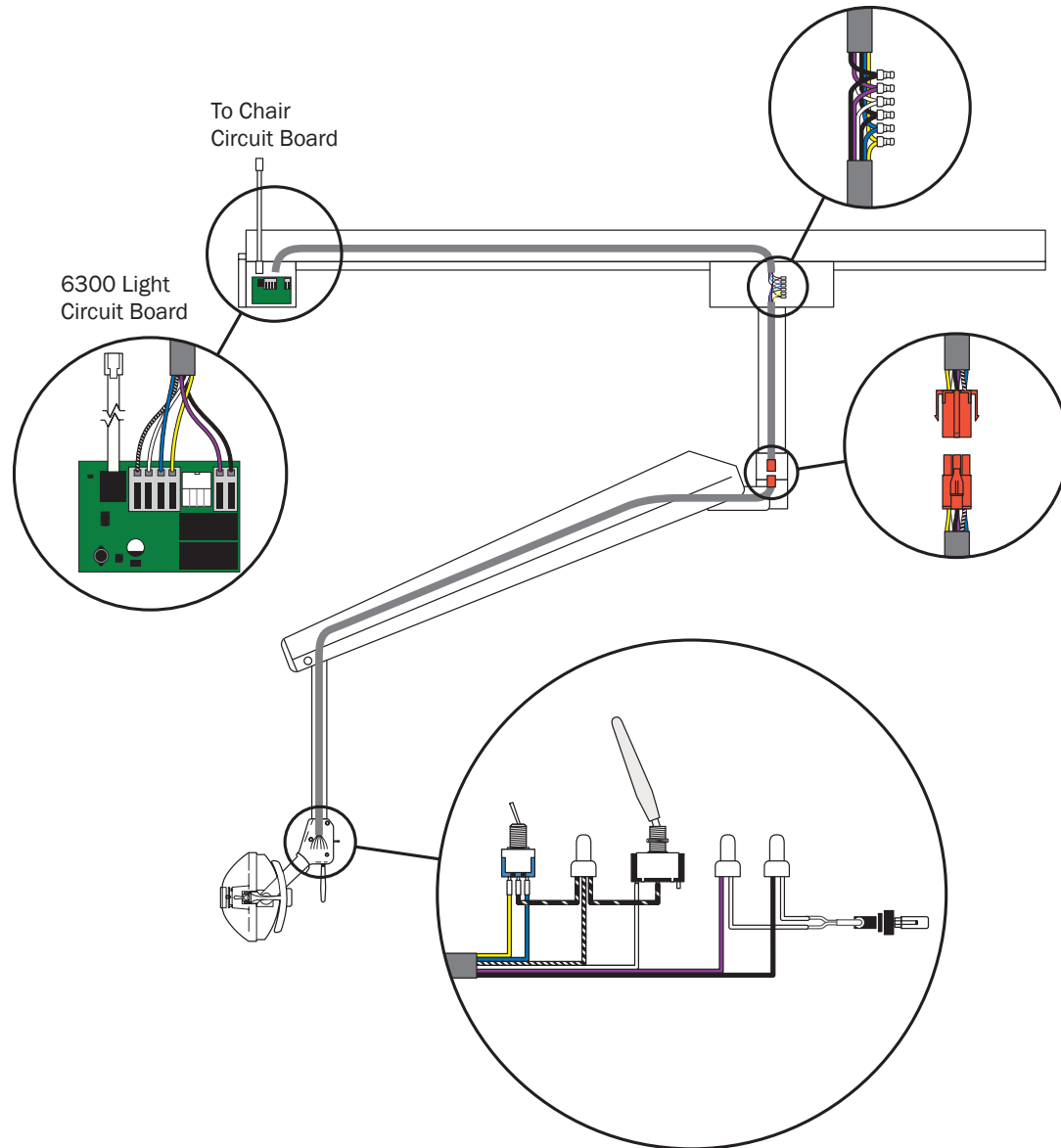
6300 Ceiling, Wall, and Preference Mount Switch and Data Line Connections



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



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

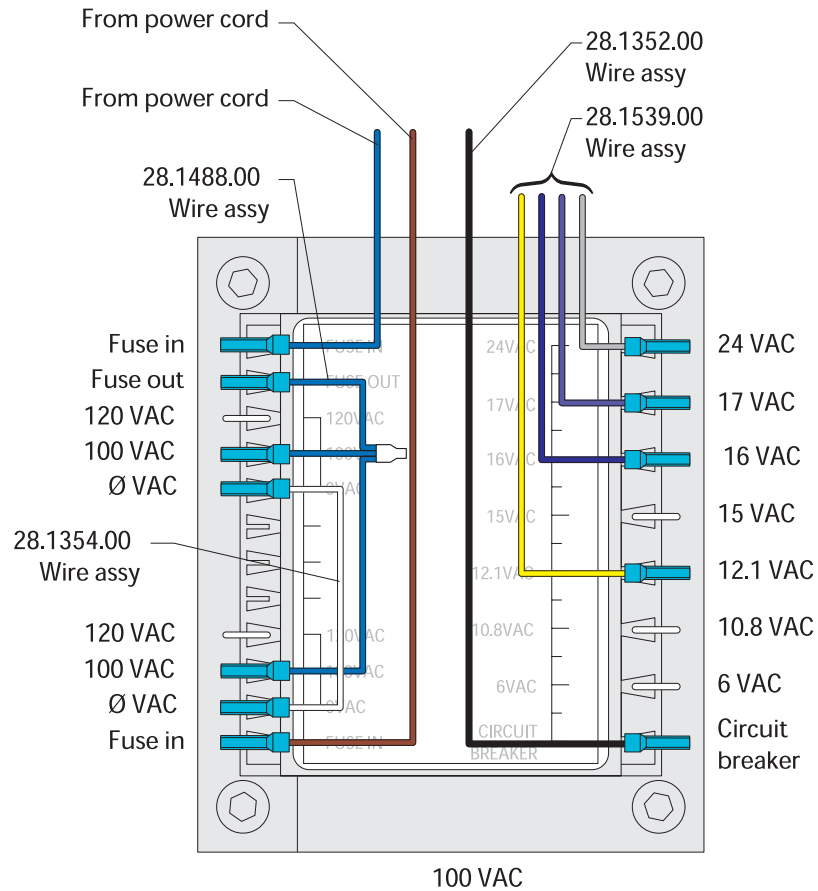


A-dec 571/572 and 6300 Dental Light (Halogen 3-Axis) Transformer

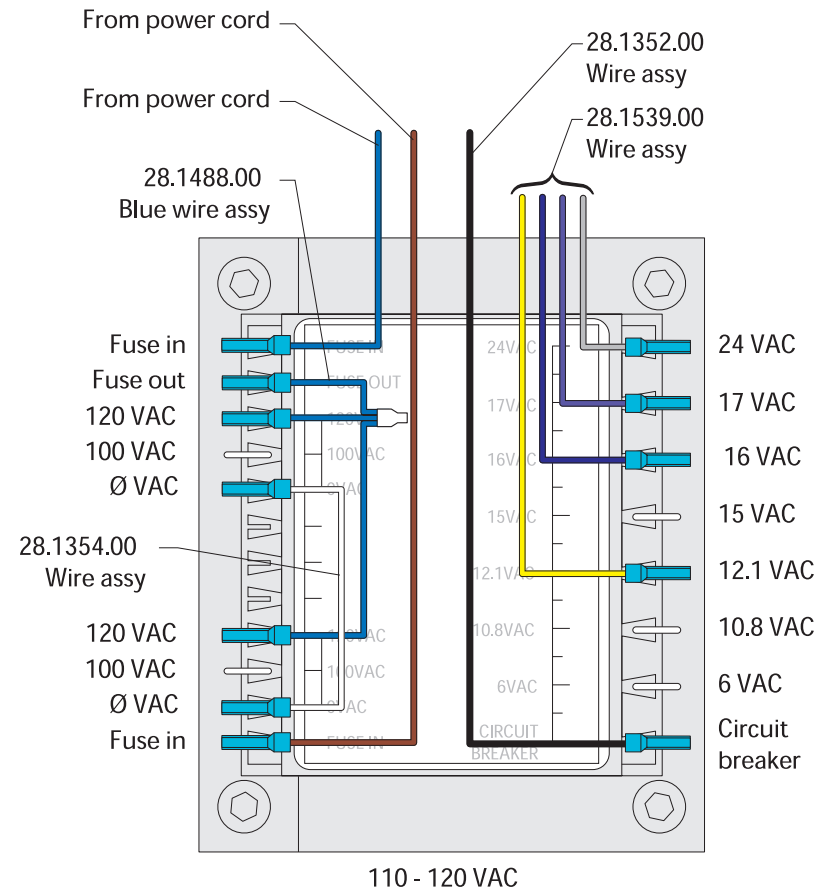
Part Number: p/n 28.1588.00

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

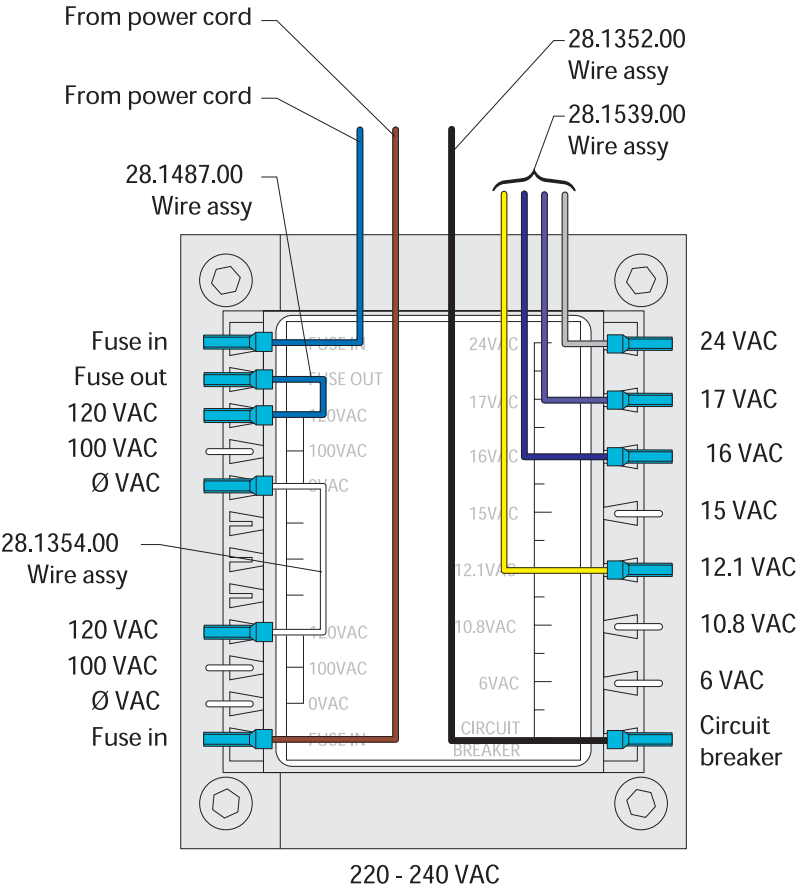
100 VAC Transformer Wiring



110-120 VAC Transformer Wiring



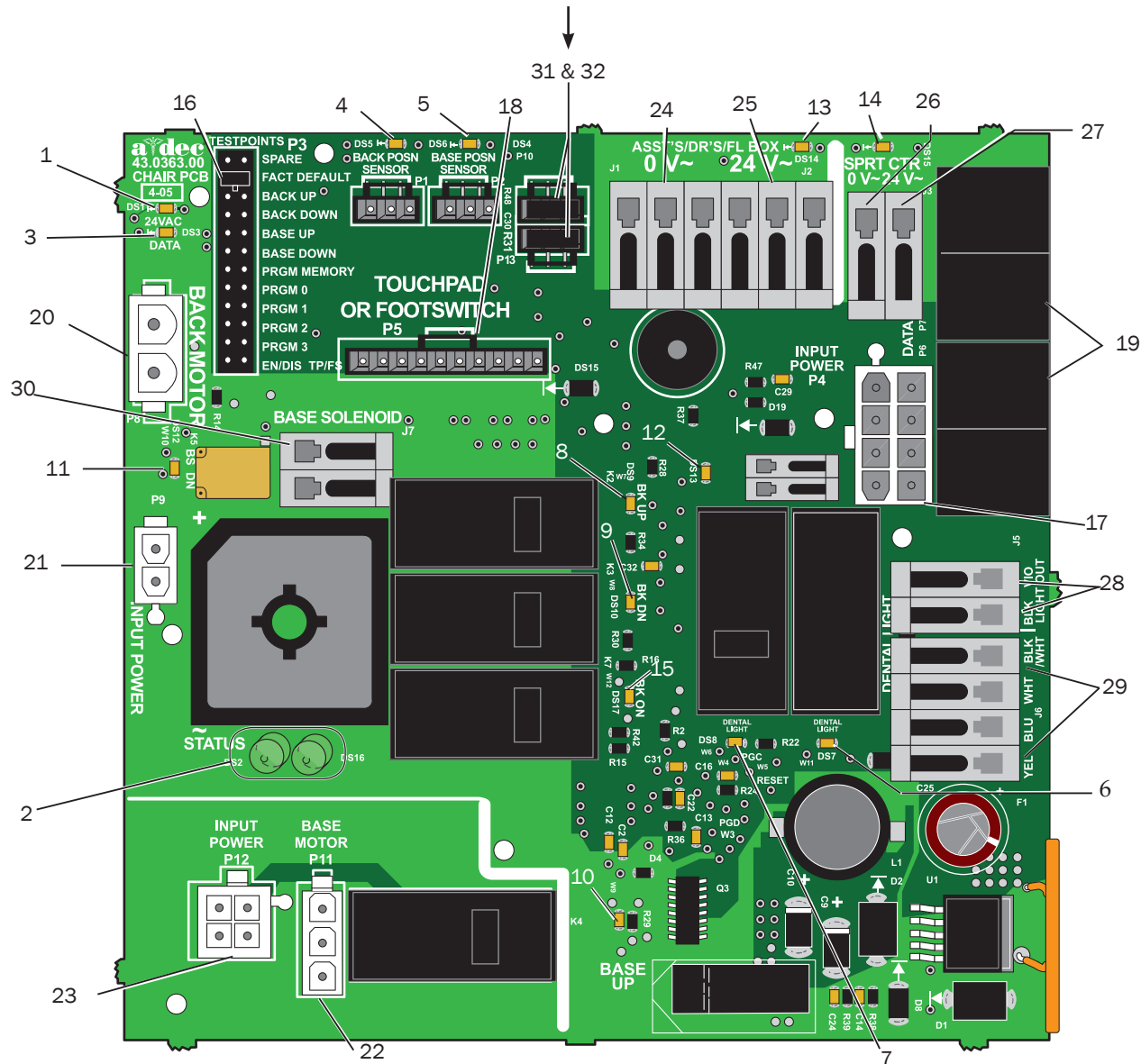
220-240 VAC Transformer Wiring



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

A-dec 311/411 Dental Chair Circuit Board for 371/372 Dental Light on an A-dec 311 and 411 Chair

NOTE Beginning July 2013: Jumpers are required on P10 and P13 for the 311 chair.



311/411 Chair Circuit Board LED Indicators

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 at P1 input power connector
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
	Blue , double blink	Jumper is in factory mode
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
DS13 - Chair lockout	Off	Open, (normal)
	Red , on	Closed, (activated)
DS5, DS6 - Chair position sensors	Off	Position Sensor: not connected or bad connection; moving in wrong direction; limited range of motion
	Yellow , steady	Normal operation
	Yellow , fast blink	Upper end of travel
	Yellow , slow blink	Lower end of travel
DS9, DS10, DS11, DS12, DS17- 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

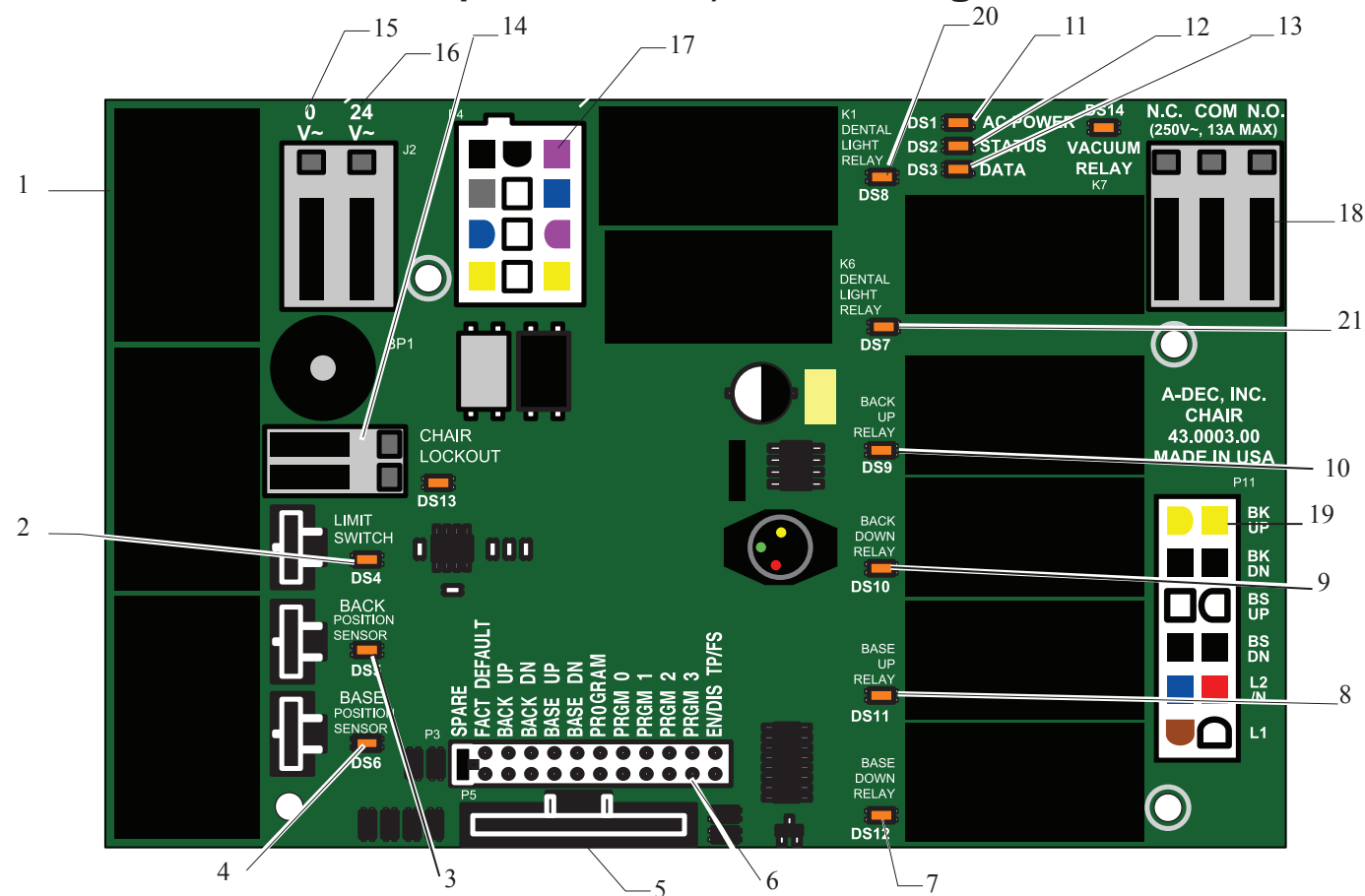
311/411 Chair Circuit Board Identification

Item	Description	Item	Description
1	DS1 - AC power LED (CB1)	17	P4 - input power connector
2	DS2, DS16 - status LEDs	18	P5 - touchpad or footswitch connector
3	DS3 - data LED	19	P6/P7 - data ports
4	DS5 - back position sensor, LED/ P1 Connector	20	P8 - back motor connector
5	DS6 - base position sensor LED/ P2 connector	21	P9 - input power connector
6	DS7 - dental light LED/Relay K6	22	P11 - base motor connector
7	DS8 - dental light LED/Relay K1	23	P12 - input power connector
8	DS9 - back up LED/Relay K2	24	J1 - Ø VAC terminal strip (output) for assistant's, doctor's, floor box
9	DS10 - back down LED/relay K3	25	J2 - 24 VAC terminal strip (output) for assistant's, doctor's and floor box
10	DS11 - base up LED/relay K4	26	J3 - 0 VAC terminal strip (output) for support center
11	DS12 - base down LED/relay K5	27	J3 - 24 VAC terminal strip (output) for support center
12	DS13 - chair lockout LED/terminal strip J4	28	J5 - dental light output terminal strip
13	DS14 - AC power LED (CB4)	29	J6 - dental light input terminal strip
14	DS15 - AC power LED (CB5)	30	J7 - base solenoid terminal strip
15	DS17 - back on LED/Relay K7	31	P10 - Jumper - 311 chair only
16	P3 - testpoints header	32	P13 - Jumper - 311 chair only



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 Functions

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 Indicators

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

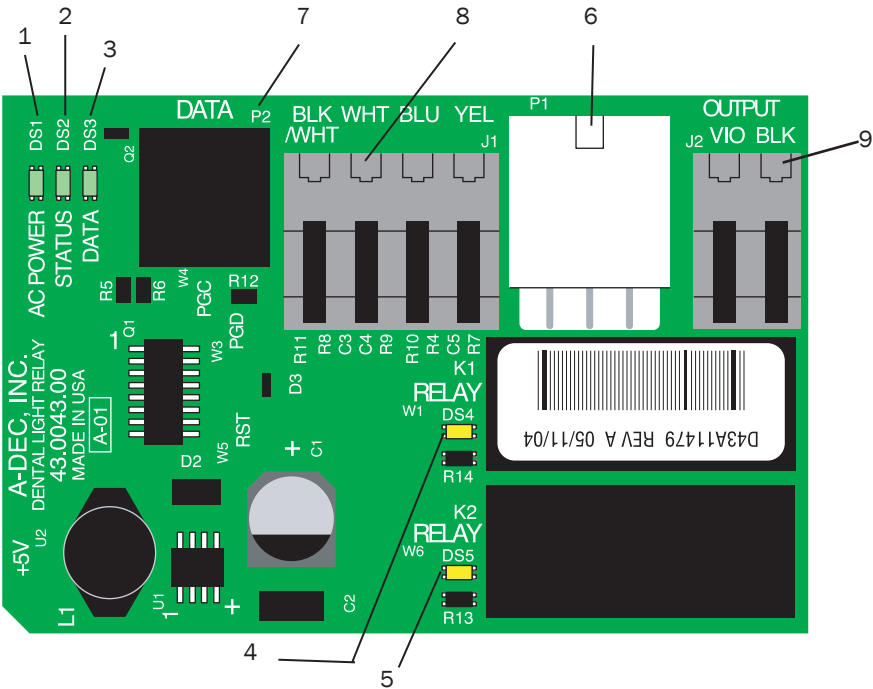
511 Chair Circuit Board Identification

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 Functions

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 Indicators

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

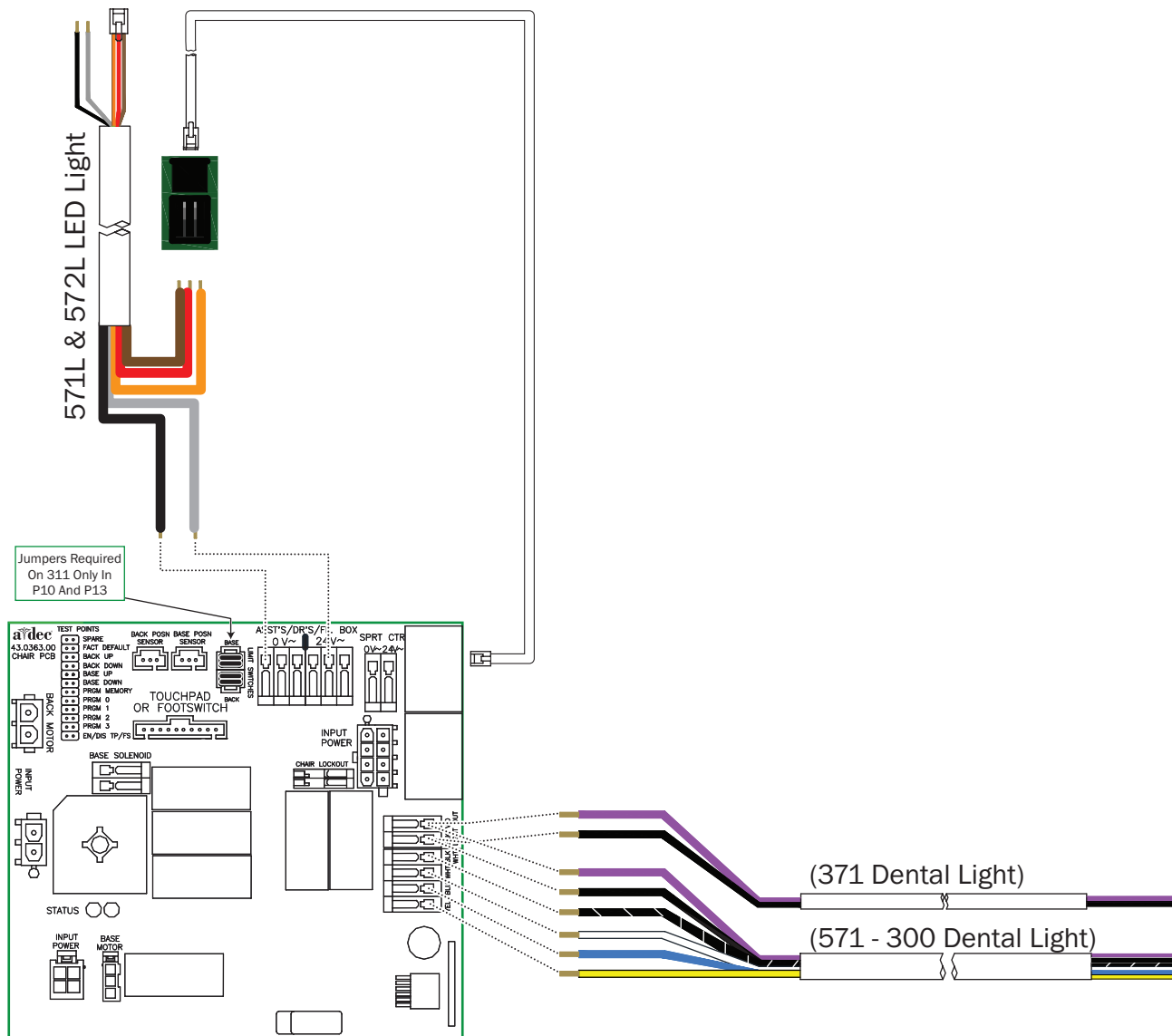
371/372 Dental Light Relay Circuit Board Identification

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.

371/372 and 571L/572L Wiring on the 311 and 411 Chair Board



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.

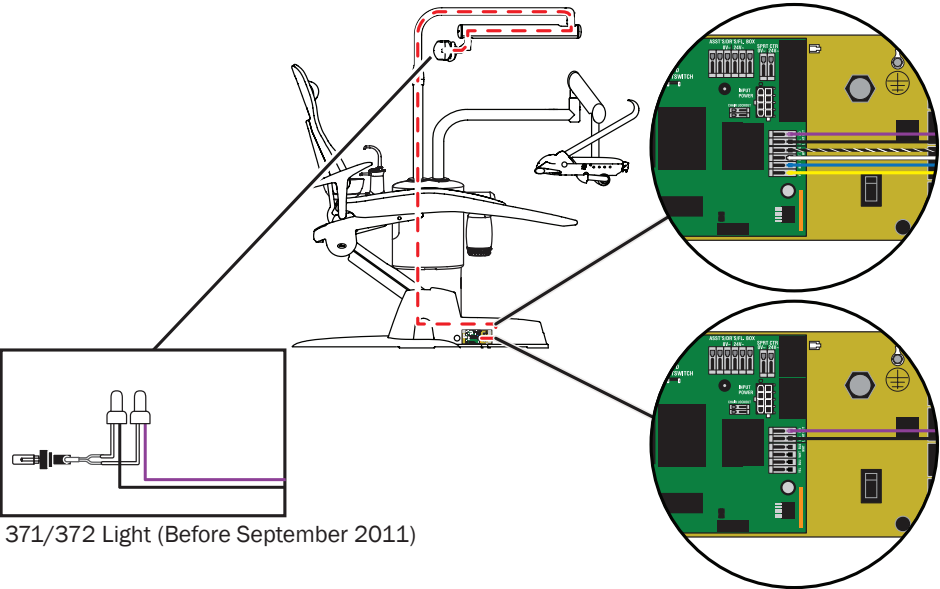
On/Off Switch

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.

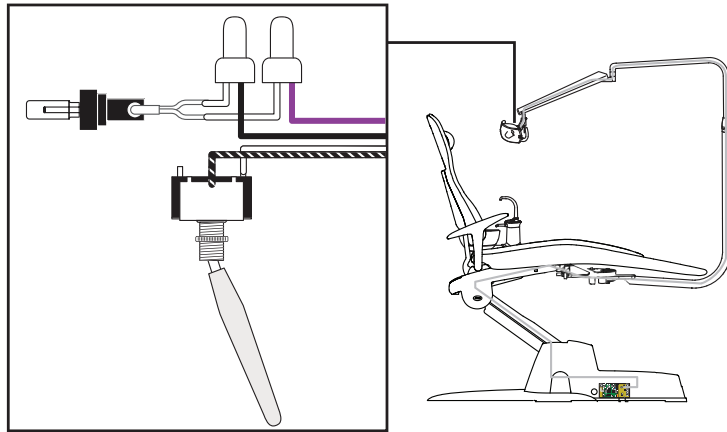
Position	Voltage	Wire
Open	5 VDC	White
Closed	0 VDC	White

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

371/372 Dental Light Switch Connections

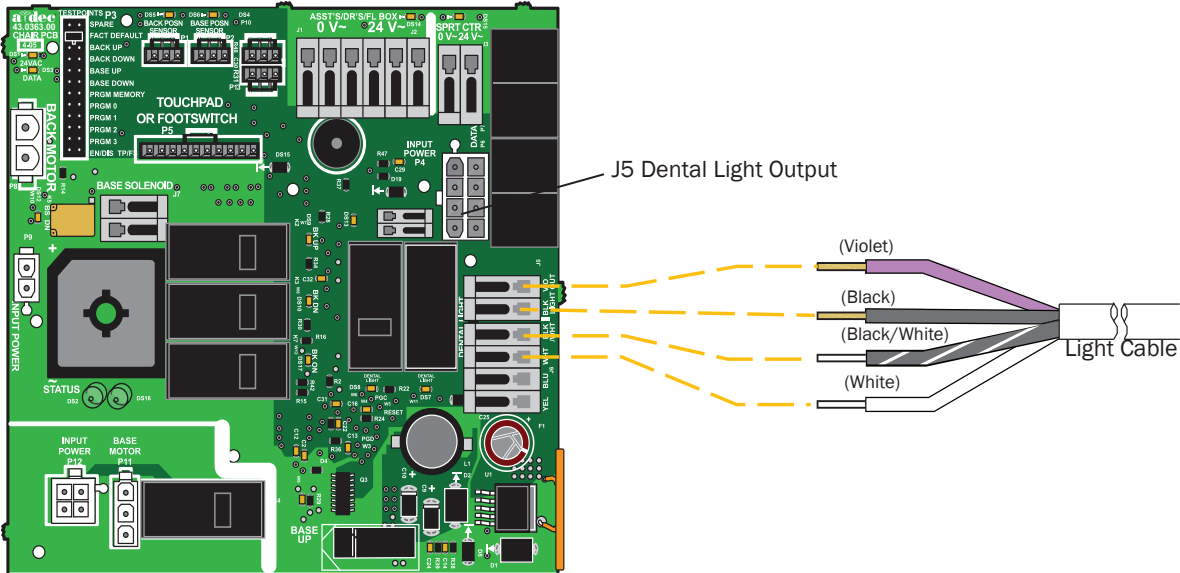


371/372 Lights (Effective September 2011)



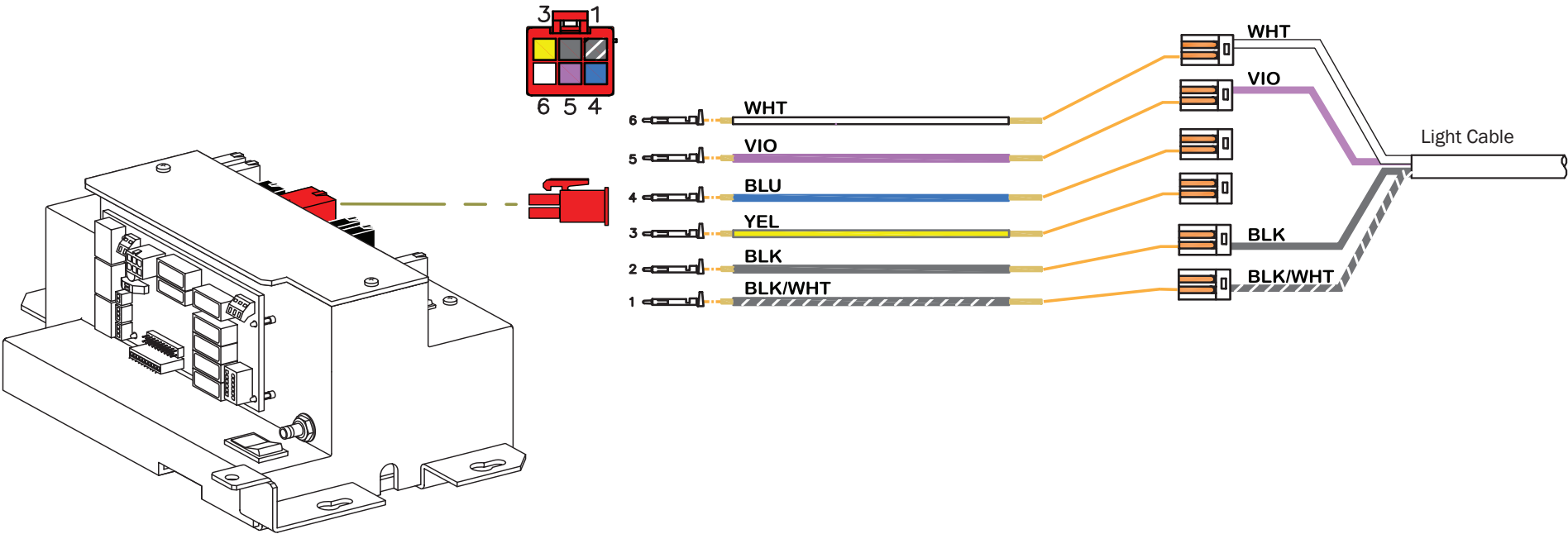
A-dec 371/372 Dental Light Wire Connections on an A-dec 311 Chair

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



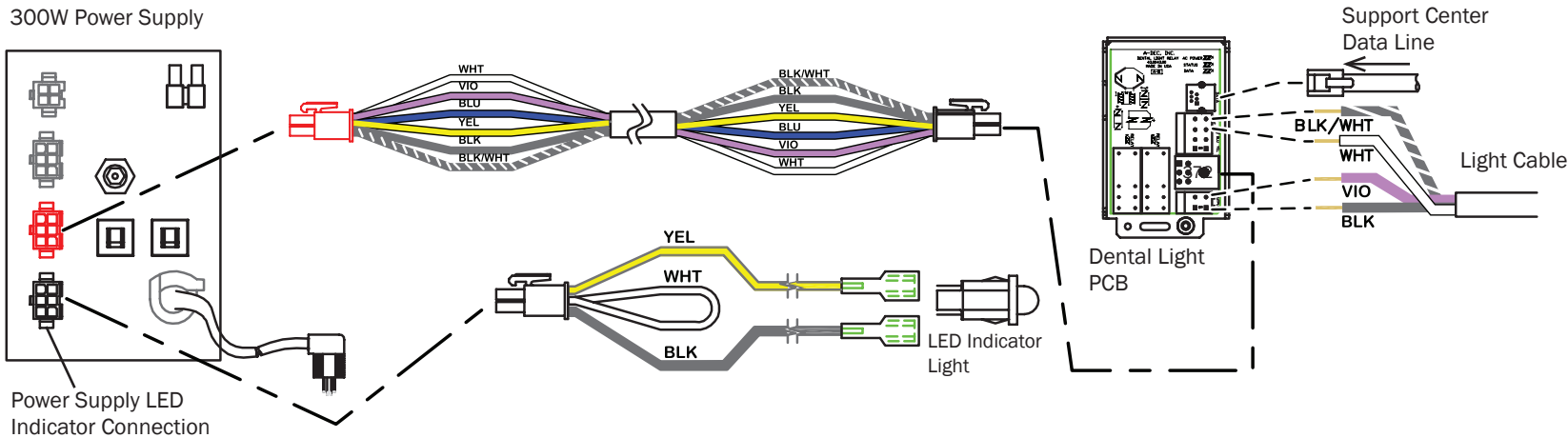
A-dec 371/372 Dental Light Wire Connections on an A-dec 511 Chair

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
372 Dental Light			
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	BIU	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.

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).	<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>
	The dental light circuit breaker, CB6, has been tripped or the power supply has failed.	<ul style="list-style-type: none"> • 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. • If the circuit breaker does not trip, reconnect P4. If the circuit breaker now trips, replace the 311 chair circuit board. • 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. • If the circuit breaker does not trip, reconnect the connections to J5. If the circuit breaker trips, replace the dental light. <hr/> <p>371 or 372 Dental Lights on a 511 chair:</p> <ul style="list-style-type: none"> • If CB5 on the 300 W 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. <p>371 or 372 Dental Lights NOT on a 511 or 311 chair:</p> <ul style="list-style-type: none"> • If the dental light circuit breaker on the 300 W power supply is tripped: <ul style="list-style-type: none"> • Disconnect the dental light connector at the power supply and reset the circuit breaker. • 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. <p>571 Dental Lights:</p> <ul style="list-style-type: none"> • If CB5 on the 300 W 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. <p>572 Dental Lights:</p> <ul style="list-style-type: none"> • 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. <hr/>
	The bulb socket is faulty (non-LED dental lights).	Replace the socket.

Problem	Possible Cause	Description
Light works from the touchpad(s) but not from the dental light switches.	Loose connection in the dental light wiring harness.	Verify that the wiring is connected properly. Check the connections at the dental light switches and terminals H5 and H6 on the circuit board.
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. CAUTION: 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. NOTE: 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"> 1. Focus the light. 2. Check the light shield for severe abrasions, and replace if necessary. 3. Clean the reflector and light shield.

A-dec Monitor Mounts



382 Radius Mounted



482 Radius Mounted



581 Side Mounted
(formerly 561 Monitor Mount)



584 Cabinet Mounted



585 Wall Mounted



586 Ceiling Mounted



587 Cabinet Track Mounted

Monitor Mount Specifications and Adjustments

Monitor Mount Specifications

Maximum Monitor Weight:

31 lb (14.1 kg) for models 382, 584, 585 586,

20 lb (9.1 kg) for models 381, 482 , 581, 587

Recommended Maximum Monitor Size:

19" (482 mm) diagonal



NOTE A-dec monitor mounts are VESA (Video Electronics Standards Association) compliant, so they support most monitor brands and sizes.



NOTE A-dec monitor mounts are intended to support and position a medical grade or equivalent flat-panel monitor.



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

A-dec monitor mounts use one of the following positioning mechanisms:

Floating

These mounts provide continuous tension which holds the monitor in place after it is positioned.

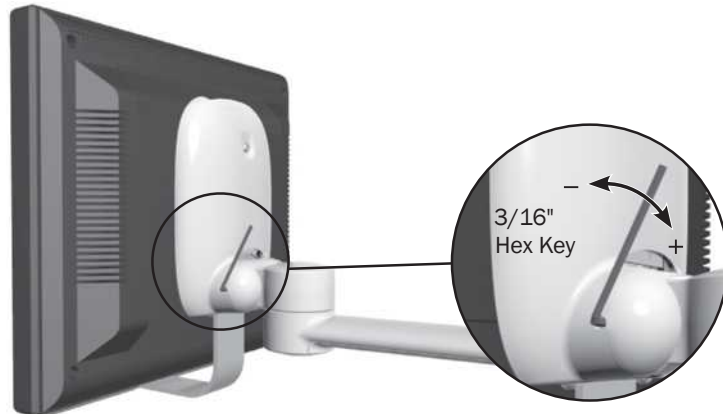


Locking

These mounts include a handle that allows you to manually lock the tilt position of the monitor.

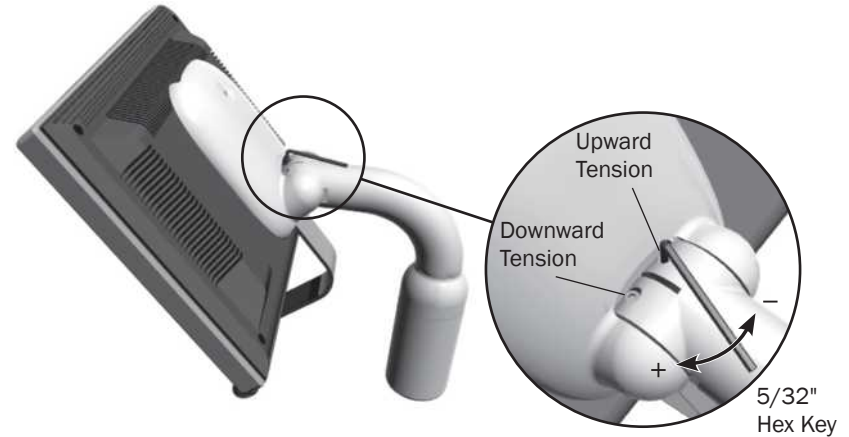


Style 1, Floating



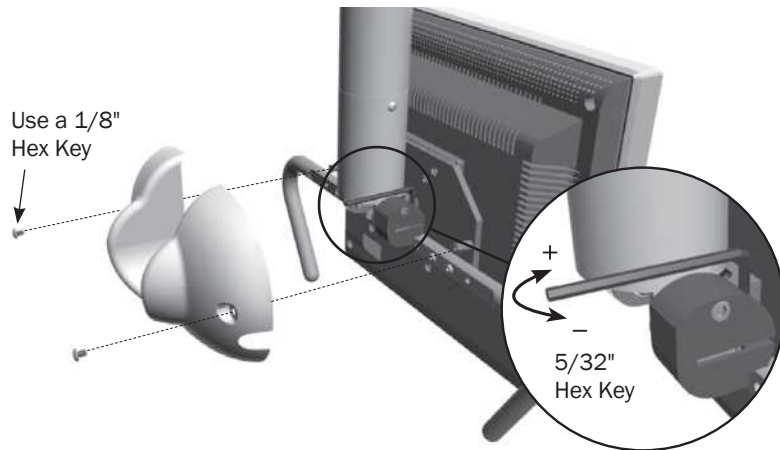
Turn the hex key clockwise to increase the tension.

Style 2, Floating



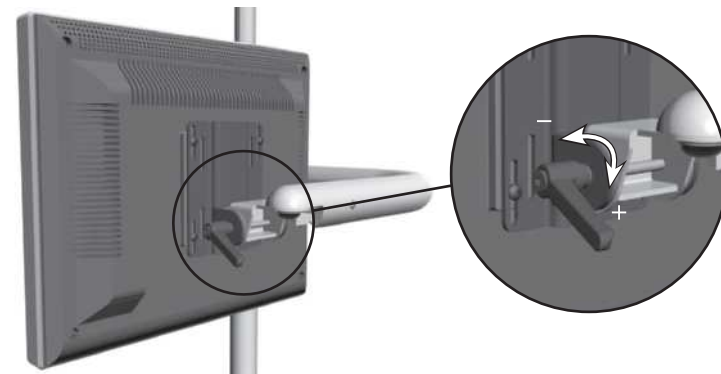
Turn the hex key clockwise to increase the tension. This adjustment may be necessary for both the upward and downward tension.

Style 3, Floating



Use a 1/8" hex key to remove the back cover screws. Use a 5/32" hex key to increase or decrease the mount's vertical tension.
(Note: The handles may be repositioned after the cover is removed. Use a 1/8" hex key to remove and replace the handle screws.)

Style 4, Locking

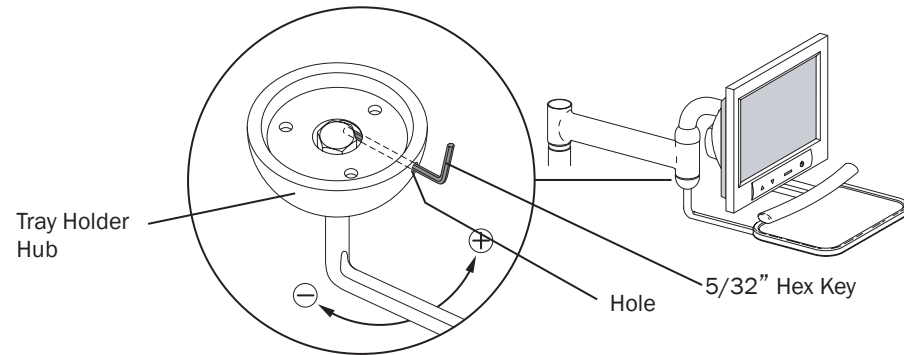


Turn the handle clockwise to lock the monitor position.

Tray Holder Tension Adjustment (581)

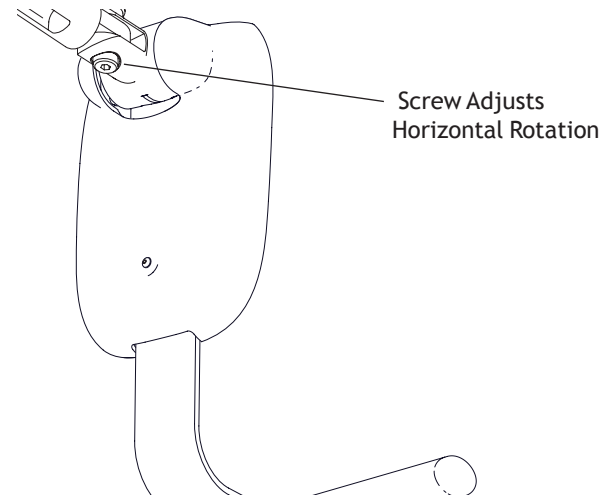
The tension adjustment screw for the tray holder is located in the hub of the tray holder arm.

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 (587)

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





A-dec Headquarters

2601 Crestview Drive
Newberg, Oregon 97132
United States
Tel: 1.800.547.1883 within USA/CAN
Tel: +1.503.538.7478 outside USA/CAN
Fax: 1.503.538.0276
www.a-dec.com

A-dec Australia

Unit 8
5-9 Ricketty Street
Mascot, NSW 2020
Australia
Tel: 1.800.225.010 within AUS
Tel: +61.(0).2.8332.4000 outside AUS

A-dec China

A-dec (Hangzhou) Dental Equipment Co., Ltd.
528 Shunfeng Road
Qianjiang Economic Development Zone
Hangzhou 311106
Zhejiang, China
Tel: +1.503.538.7478

A-dec United Kingdom

EU Authorized Representative
Austin House, 11 Liberty Way
Nuneaton, Warwickshire CV11 6RZ
England
Tel: 0800.ADEC.UK (2332.85) within UK
Tel: +44.(0).24.7635.0901 outside UK



86.0326.00 Rev C
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