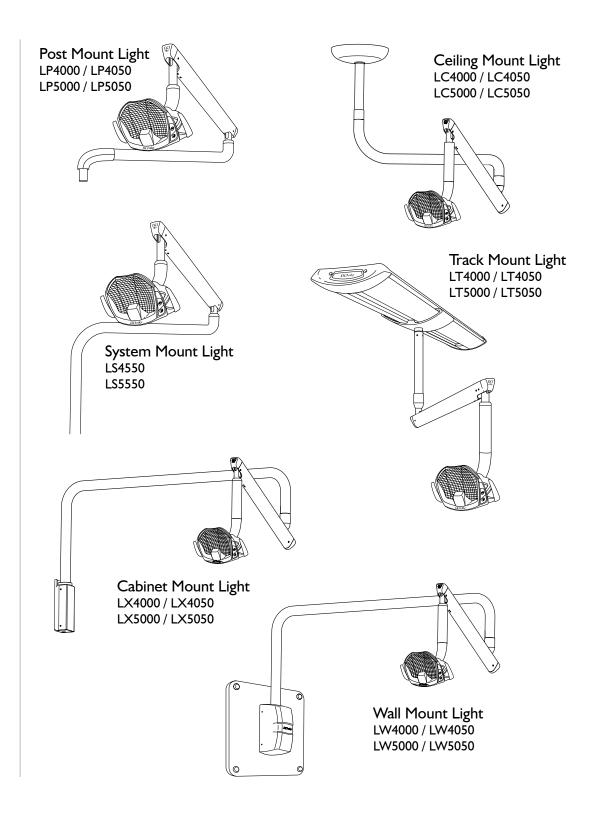


LED OPERATORY LIGHT

Installation Instructions

OVERVIEW



2 DCI Edge

INTRODUCTION

BEFORE YOU BEGIN

Review the light overview in this manual and layout dimensions. Ensure that the planned location will have the necessary space available for installation.

Open all containers and review the contents. It may be helpful to locate all kits containing components and accessories for installation.

Locate all documentation supplied with the equipment. Manuals and installation information may be found in one or more boxes with their respective components. Set aside the documentation for the end user to review.

Check local and state codes which pertain to the installation of this product and make adequate preparations for proper conformance to all requirements.

TABLE OF CONTENTS

- Overview 2
- Introduction 3
- Post Mount Installation 4
- System Mount Installation 5
- Ceiling Mount Installation 7
 - Track Mount Installation

SYMBOLS USED IN THIS MANUAL

The following symbols may be used throughout this product manual:



WARNING: Failure to carefully follow the described procedure may result in damage to the equipment or the operator.



CAUTION: Failure to carefully follow the described procedure may result in damage to the equipment.



NOTE: Take note of additional important information. Not a warning or caution.



ELECTRICAL HAZARD: Risk of electrical shock present. Ensure that power is disconnected before attempting procedure.

REGULATORY INFORMATION

Regulatory information is delivered with DCI Edge dental equipment as mandated by agency requirements and can be found in the accompanying Instructions For Use for this device.

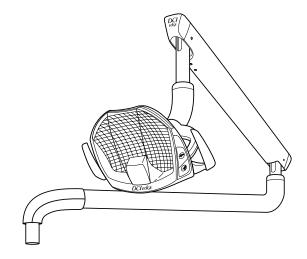


WARNING: Only trained service personnel are permitted to install this equipment.

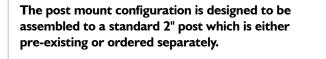
POST MOUNT LIGHT INSTALLATION

TOOLS NEEDED FOR INSTALLATION

Level Allen wrench



ASSEMBLY



Route the power cable through the top of the pre-mounted post.

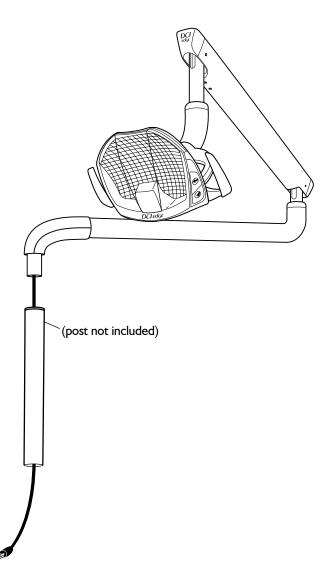


3

I

2 Assemble to the post as shown (right).

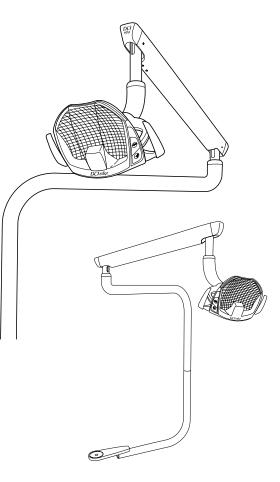
Plug power cord into hospital grade extension cord or power outlet.



SYSTEM MOUNTED LIGHT

TOOLS NEEDED FOR INSTALLATION

Socket wrench with 1/2" socket Level



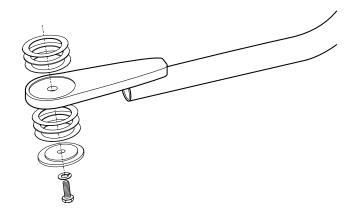
INCLUDED HARDWARE

Bolt Lock washer Thrust bearing and washer set

MOUNT TO CHAIR

Position the pole under the adapter extending from the chair.

Assemble the pole to the chair as shown in the assembly (right) with one bearing stack in the top recess, one bearing stack in the bottom recess, and the large custom washer. Then, use a wrench to tighten the bolt with lock washer into the adapter extending from the chair.



SYSTEM MOUNTED LIGHT

POLE ASSEMBLY

Assemble the straight post (A) into the lower swing pole and secure with the 8-32 x 1/2 pan head screw.

2 Route the cable which is taped to the upper light pole (B) through the poles below it and then insert it into the straight pole (A).

3 Connect cables at the flex arm and pole junction (C) and insert the flex arm knuckle into the top of the upper light pole.

4 Route the cable through the hole in the chair adapter, and out the other end.

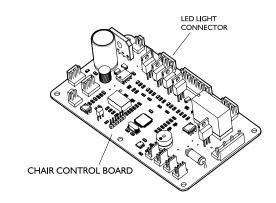
CHAIR CONNECTION

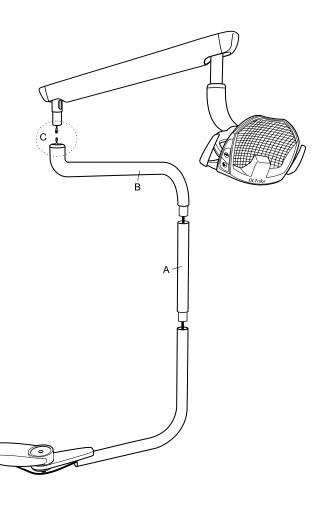
Flex to remove the cable cover and the wire hanger on the under side of the chair, and route the cable through this area and replace the hanger and cover.

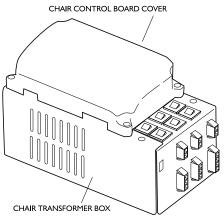
2 Flex the sides of the truss cover and lift to remove it from the chair, and route the cable down to the transformer box in the base of the chair.

3 Remove 4 screws which secure the cover over the chair control board, located on top of the transformer box.

4 Attach the connector at the end of the cable to the 4-pin connector on the chair control board labeled below and replace the covers.

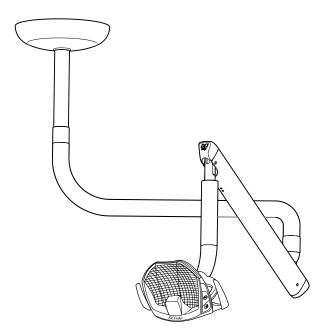






TOOLS NEEDED FOR INSTALLATION

Socket wrench with I/2" socket Electric Drill with 3/8" drill bit Level 3/32" Allen wrench



INCLUDED HARDWARE

5/16"x 4" lag screws, Qty 3

PREPARATION

3

Determine the position of structural ceiling joists.

Using the cardboard template printed on the 2 shipping container, mark the drill holes for mounting screws and electrical wire.

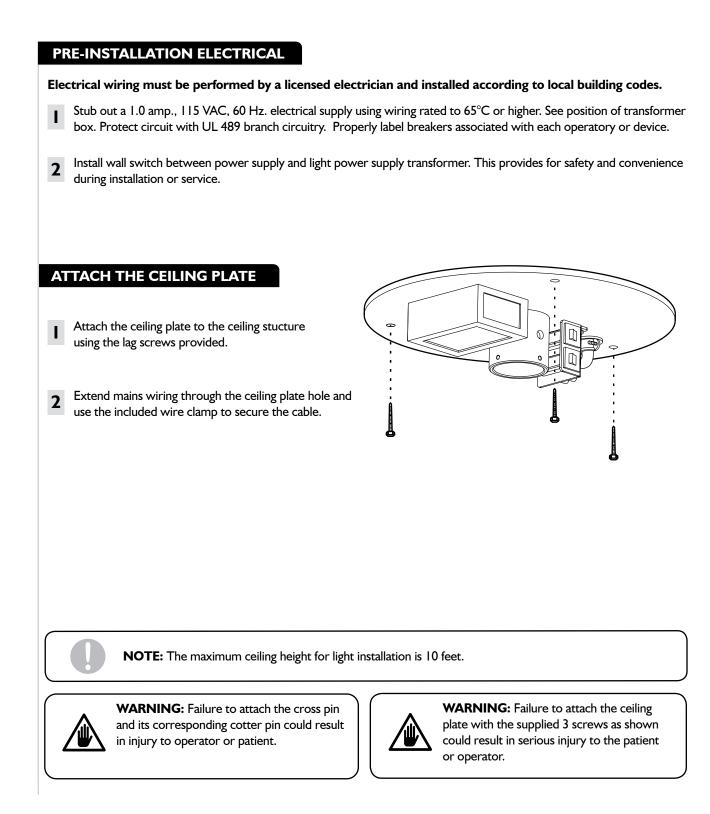
Drill a hole for the electrical power line if the ceiling structure obscures the opening.



WARNING: Ensure that the mounting structure of the ceiling can support a minimum of 200 lbs.



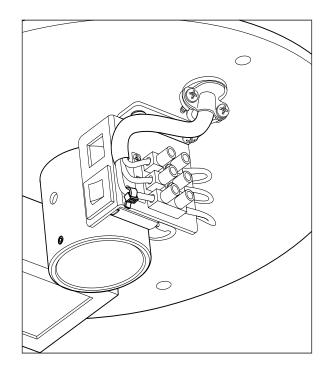
WARNING: If the mounting hole locations do not align with sufficient structural elements in the ceiling, modify the ceiling structure to ensure that all mounting screws are properly and securely attached to the required supportive structure.



CONNECT MAINS POWER

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

- Remove cover on transformer box on track assembly.
- 2 Clamp wire as it passes into the transformer box using the strain relief provided.
- **3** Connect mains power to the terminal block inside of the transformer box.
- 4 Secure the positive wire to the box using the included zip-tie as shown in the illustration (right).





WARNING: Failure to secure the positive wire to the box using the included zip-tie as shown in the illustration (above) could result in electrical shock.



Mains power must be supplied using wiring which is rated to 65°C or higher.



To isolate mains power, use the mains supply breaker in the breaker box.



WARNING: Failure to turn off the power before beginning this procedure can lead to damage to the product and result in injury or death.



WARNING: To avoid the risk of electric shock, this equipment must be connected only to supply mains with protective earth grounding.



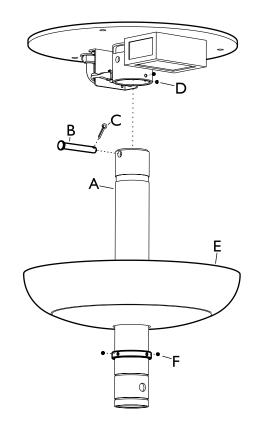
WARNING: To avoid the risk of electric shock, secure the positive wire to the box using the included zip-tie as shown in the illustration (above).

ATTACH DROP POST

I Connect the extension cable, included with the drop post, to the connector and connect it to the free connector on the ceiling mount.

2 Route the cable through the slot in the ceiling hub.

3 Connect the vertical post to the mounting hub by A) inserting the post into the hub and aligning the holes. B) Next, insert the cross pin through the aligned holes of the collar and the vertical post. C) Insert the cotter pin through the hole on the end of the cross pin. D) Tighten the set screws against the post ensuring that the post is plumb. E) Raise the plastic cover into position, and F) tighten 2 set screws of the ring to secure the cover tight around the ceiling plate.

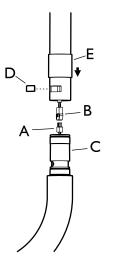


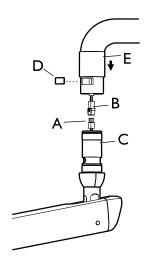
ATTACH CEILING ARM AND FLEX ARM

Connect the wire included with the ceiling arm (A) to the connector exiting the bottom of the drop post (B).

2 Engage the ceiling arm stub (C) into the drop post until the groove of the stub aligns with the slot of the drop post and then insert the bronze key (D) into the slot and groove to lock the arm into position.

- Lower the sleeve (E) over the key and slot and secure in position with the set screws.
- **4** Repeat this process for connecting the flex arm to the other end of the ceiling arm.

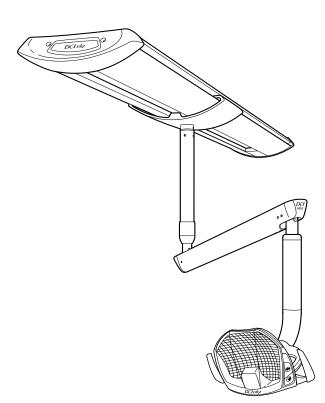




3

TOOLS NEEDED FOR INSTALLATION

Phillips head screwdriver Utility knife Socket wrench with 1/2" socket Electric Drill with 3/8" drill bit Level Tape Measure 3/32" Allen wrench 1/4" Allen wrench



INCLUDED HARDWARE

5/16"x 4" lag screws, Qty 4

PREPARATION

3

Determine the position of structural ceiling joists.

2 Using the cardboard template printed on the shipping container, mark the drill holes for mounting screws and electrical wire, and drill a pilot hole in preparation for the 5/16" lag screws.

Drill a hole for the electrical power line if the ceiling structure obscures the opening.



NOTE: The maximum ceiling height for light installation is 10 feet.



WARNING: Ensure that the mounting structure of the ceiling can support a minimum of 200 lbs.



WARNING: If the mounting hole locations do not align with sufficient structural elements in the ceiling, modify the ceiling structure to ensure that all mounting screws are properly and securely attached to the required supportive structure.

PRE-INSTALLATION ELECTRICAL

Electrical wiring must be performed by a licensed electrician and installed according to local building codes.

Stub out a 1.0 amp., 115 VAC, 60 Hz. electrical supply using wiring rated to 65°C or higher. See position of transformer L box. Protect circuit with UL 489 branch circuitry. Properly label breakers associated with each operatory or device.

Install wall switch between power supply and light power supply transformer. This provides for safety and convenience during installation or service.

MOUNT THE TRACK



2

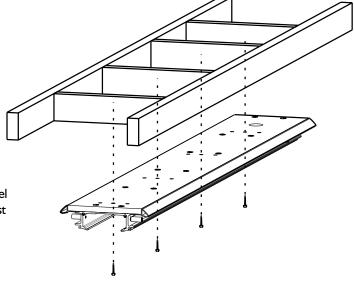
2

WARNING: To prevent injury, track installation requires two technicians.

Align the holes in the track to the pre-drilled pilot holes in the ceiling. Route power line through the electrical hole in the track.

Using the supplied lag bolts and a socket wrench, attach the track to the ceiling sub-structure.

Using a level, ensure that the mounted track is level 3 side-to-side and front-to-back. Use shims to adjust the level.



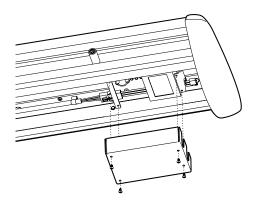


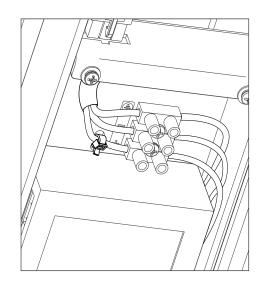
WARNING: Failure to attach the track using the supplied screws as shown could result in serious injury to the patient or operator.

CONNECT MAINS POWER

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

- Remove cover on transformer box on track assembly.
- 2 Clamp wire as it passes into the transformer box using the strain relief provided.
- **C**onnect Mains power to the terminal block inside of the transformer box.
- 4 Secure the positive wire to the box using the included zip-tie as shown in the illustration (right).
- **5** Replace the cover on the transformer box by attaching with 4 Phillips head screws.







Mains power must be supplied using wiring which is rated to 65° C or higher.



To isolate Mains power, use the Mains supply breaker in the breaker box.



WARNING: Failure to turn off the power before beginning this procedure can lead to damage to the product and result in injury or death.



WARNING: To avoid the risk of electric shock, this equipment must be connected only to supply mains with protective earth grounding.

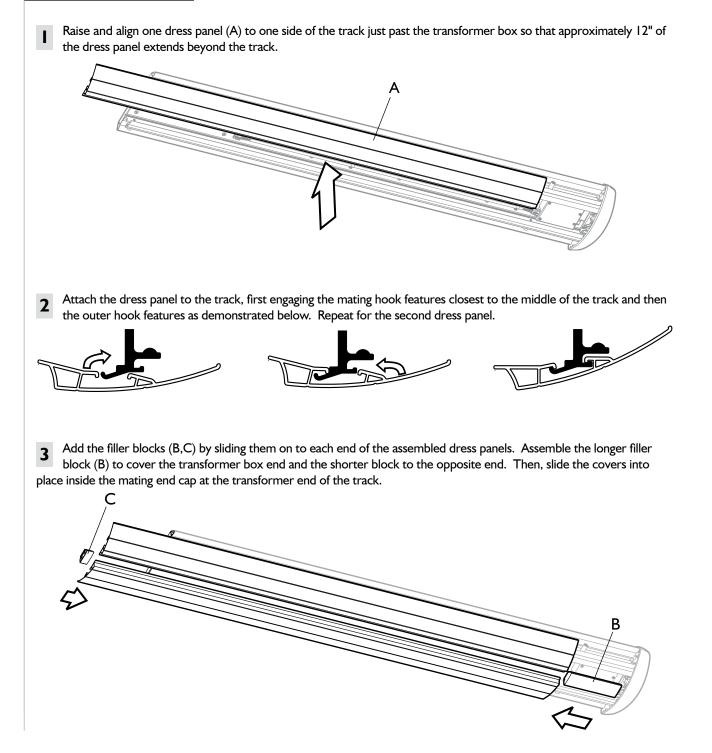


WARNING: Failure to secure the positive wire to the box using the included zip-tie as shown in the illustration (above) could result in electrical shock.



WARNING: To avoid the risk of electric shock, secure the positive wire to the box using the included zip-tie as shown in the illustration (above).

ASSEMBLE COVERS



ATTACH THE TROLLEY

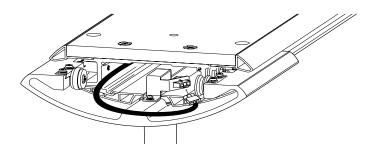
Connect the extension cable to the the trolley bracket by inserting in through the rectangular opening so that the open end of the connector faces outward as shown (right). Route the cable down through the hole in the trolley and continue to route the wire through the supplied drop post, making sure that the post end with two holes is closest to the trolley.

2 Insert the drop post into the sleeve on the trolley until the holes of the drop post are visible inside the trolley, and then insert the cross pin through the post. Leaving an equal length of the pin extending to each side of the post, drop the post and pin assembly down until the cross pin is seated in the mating groove of the trolley as shown (right).

Attach the cable bracket to the trolley using the supplied 8-32 and 1/4-20 fastener.

4 Tighten the set screws on the trolley as shown to secure the position of the extension post. Use a level to verify the post is plumb.

5 Connect the wire harness which is attached to the track to the trolley in a manner which forms a loop around the end of the trolley as shown (right) and then insert the trolley into the end of the track with the connector facing opposite the transformer.



_**99**



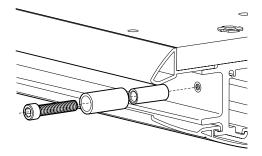
6 Attach trolley stops using the cap screw, the sleeve, and the rubber tube on both sides of the track as shown.



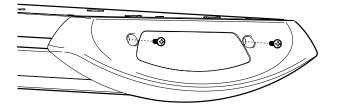
2

4

WARNING: Failure to install the trolley stops after installing the trolley could result in serious injury to operator or patient.



7 Attach the plastic end cap at the end of the track using the supplied 8-32 Phillips head screws.



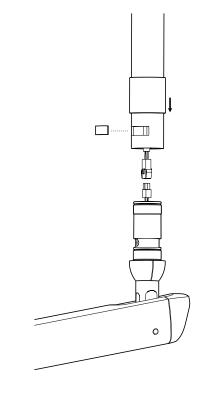
ATTACH FLEX ARM AND LIGHT HEAD

Connect the power cable of the flex arm to the extension cable from the vertical post.

Insert the vertical pin of the flex arm into the post until it bottoms out.

3 Insert the key into the slot at the bottom of the vertical post and ensure that it seats into the groove of the flex arm pin.

Lower the outer sleeve over the key until it bottoms out.



DCledge

LED OPERATORY LIGHT Installation Instructions

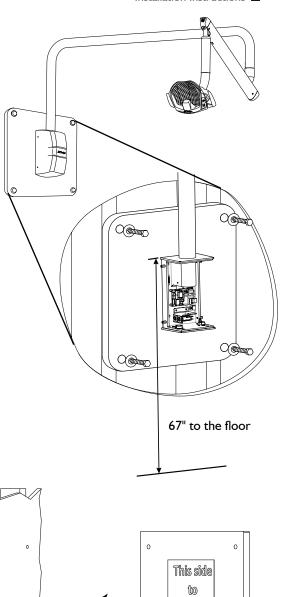
WALL MOUNT LIGHT INSTALLATION

TOOLS NEEDED FOR INSTALLATION

Phillips head screwdriver Utility knife Socket wrench with 1/2" socket Electric Drill with 3/8" drill bit Level **Tape Measure**

INCLUDED HARDWARE

1/2"x 4" lag screws, Qty 4



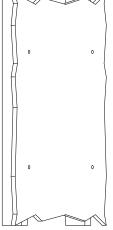
MOUNT THE WALL BOARD

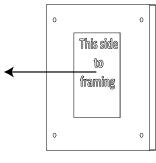
Identify the wall studs best suited for use to I attach the wall board. Ensure that the studs are 16 inches apart from center-to-center.

Use the template provided to mark the hole 2 centers on your wall, ensuring that your mains power cord is also aligned with the 1 inch hole.

Using the supplied lag bolts and a socket 3 wrench, attach the wall board to the wall at the recommended height shown with the sticker side facing the wall.

Using a level, ensure that the mounted wall 4 board is level side-to-side and front-to-back. Use shims to adjust the level.





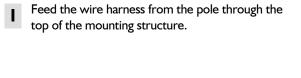


WARNING: Failure to attach the wall board using the supplied lag screws and with the correct (sticker side) facing the wall as shown could result in serious injury to the patient or operator.

2

WALL MOUNT LIGHT INSTALLATION

ATTACH EXTENSION POLE



2 Attach the extension pole to the wall casting as shown.



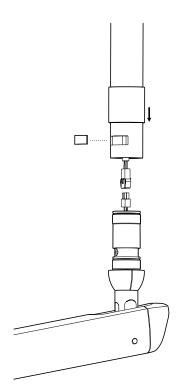
ATTACH FLEX ARM AND LIGHT HEAD

Connect the power cable of the flex arm to the extension cable from the vertical post.

Insert the vertical pin of the flex arm into the post until it bottoms out.

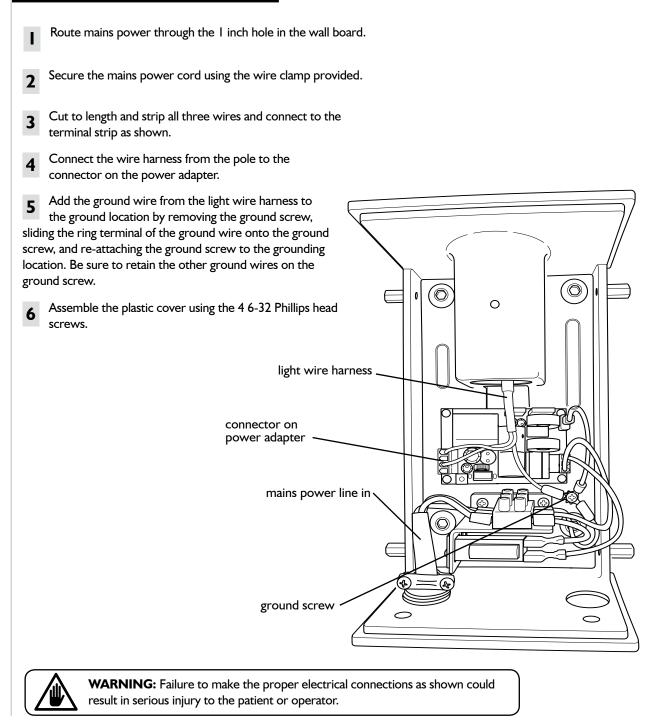
3 Insert the key into the slot at the bottom of the vertical post and ensure that it seats into the groove of the flex arm pin.

Lower the outer sleeve over the key until it bottoms out.



WALL MOUNT LIGHT INSTALLATION

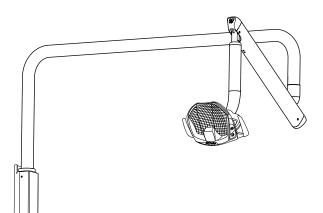
MAKE ELECTRICAL CONNECTIONS



CABINET MOUNT LIGHT INSTALLATION

TOOLS NEEDED FOR INSTALLATION

Phillips head screwdriver Utility knife Socket wrench with 1/2" socket Electric Drill with 3/8" drill bit Level Tape Measure



INCLUDED HARDWARE

I/4"-20 Bolts, Qty 4 Split washers, Qty 4

MOUNT THE BRACKET

I Identify the location for the bracket on the sheet metal structure of the cabinet. Ensure that the structure can support the load of 200 lbs.

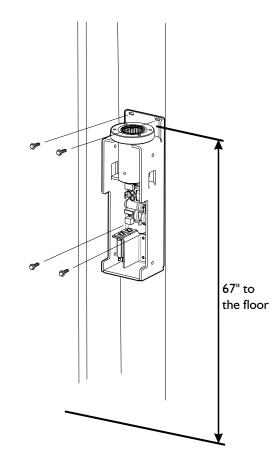
2 Drill 4 clearance holes for the 1/4"-20 bolts provided using the drill template provided.

3 Assemble the bracket to the cabinet structure using the supplied 1/4"-20 bolts, washers, and nuts as shown.

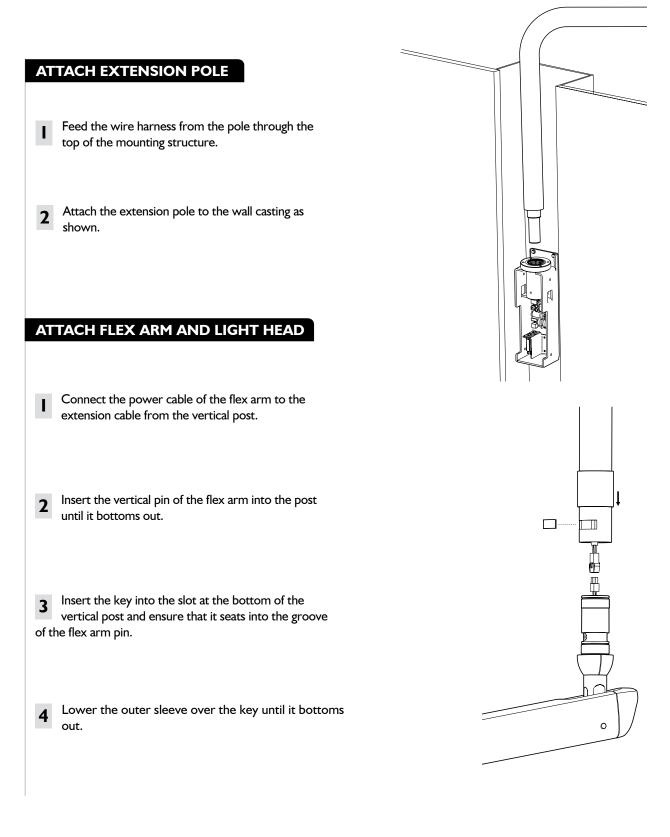
4 Using a level, ensure that the mounted wall board is level side-to-side and front-to-back. Use shims to adjust the level.



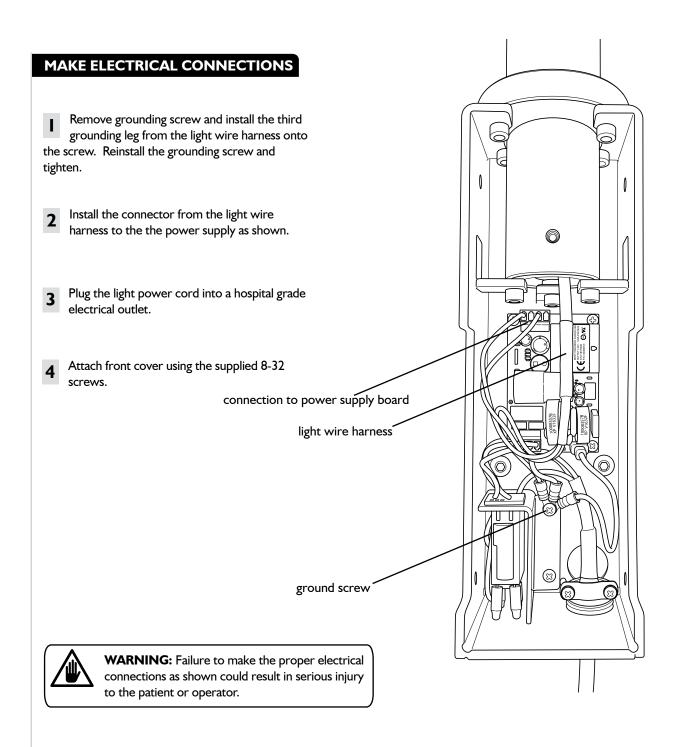
WARNING: Failure to attach the bracket using the supplied screws as shown could result in serious injury to the patient or operator.



CABINET MOUNT LIGHT INSTALLATION



CABINET MOUNT LIGHT INSTALLATION



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