



Luxo Medical Products



OUTPATIENT[®] II COOLSPOT[™] II

INSTRUCTIONS FOR USE
CEILING MOUNT ASSEMBLY

PERFORMANCE RELIABILITY VALUE

The Right Light

Outpatient Surgery
and Diagnostic

Instructions For Use

Outpatient[®] II / CoolSpot[™] II

Ceiling Mount Assembly

Model	115V~60Hz	230/240V~50Hz (Europe)	230/240V~50Hz (International)
OP II Single Ceiling	OP216SC	O202SC	OP225SC
OP II Double Ceiling	OP216DC	O202DC	OP225DC
CS II Single Ceiling	CS316SC	C302SC	CS325SC
CS II Double Ceiling	CS316DC	C302DC	CS325DC
OP II / CS II Combo Ceiling Mount	OC516CC	O202CC	OC525CC

This product was designed and assembled in the U.S.A. by

BURTON MEDICAL PRODUCTS CORP.
21100 Lassen Street
Chatsworth, CA 91311
U.S.A.

**This manual to remain
with end user.**

Questions?
 Tel. (800) 444-9909
 (818) 701-8700
 Fax (800) 765-1770
 (818) 701-8725

www.burtonmedical.com

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Introduction

Dear Installer,

Congratulations on your purchase of an Outpatient[®] II or CoolSpot[™] II diagnostic light, ceiling mounted version.

This installation manual provides instructions on how to install the Outpatient[®] II or CoolSpot[™] II diagnostic light. For instructions on operation or maintenance, and further description of the product, see the Head and Arm IFU (Instructions for Use) manual which is furnished with the product.

Please read these installation instructions very carefully and follow the safety instructions and requirements.

If there are any particular problems that have not been treated in sufficient detail in these installation instructions, please contact your supplier for your own safety.

Burton Medical Products Corporation recommends using qualified personnel for mechanical/electrical installation. Failure to use qualified personnel may invalidate the warranty of the product due to improper installation.

A.0 Assembly Instructions

A.1.0 Pre-Assembly

- A.1.1 **Note: Burton recommends that this light be installed by a qualified electrical contractor. It is also recommended that installation be done by two people working together.**
- A.1.2 **Warning: Failure to properly follow installation and preventive maintenance instructions and recommendations can result in mechanical failure.**
- A.1.3 Note: The Burton FlexiMount™ ceiling mount systems have been designed to be used with the Burton Flexible Arm™ lights. These lights are provided as head-and-arm assemblies which are authorized for use only with Burton FlexiMount™ Ceiling Mount, Wall Mount, Fastrac, or Floorstand. Any other use will void the warranty and may cause a safety hazard.
- A.1.4 Tools Required: Drill, hacksaw, level, 9/16” open-end wrench, wire cutter/stripper, Allen wrench, small flat-blade screwdriver.
- Also Required: 3 mounting bolts and wire nuts for supply connections.
- A.1.5 Special Note: To prevent sway and provide proper support to the light, the ceiling mount must be attached to a structurally sound ceiling, which is able to support 400 lbs. Most ceilings will require adequate reinforcing to hold the light. The installing contractor is responsible for providing this reinforcement to suit the individual requirements of each installation. Sway braces (e.g., made of angle iron) are recommended when there are more than 12” between the structural and finished ceilings
- The proper height of the light should be set by the end user. Typically the arms are installed 6-ft 6-in (~78”) above the floor. This allows the light heads to be adjusted within a vertical range of ~29”. (See Diagram A.)
- A.1.6 Carefully unpack the cartons and match the parts received with the parts list enclosed.
- A.1.7 Before Reporting Shortages:
1. Be sure you have received the correct number of boxes, cartons, etc., as shown on the bill of lading.
 2. Check all parts received against the enclosed packing slip.
 3. Items indicated in the column headed “Back Order” are not included in the shipment and will follow later.
 4. Be sure that nothing has been removed from the cartons before they are checked by the individual in charge. Please retain all packaging until you verify that contents are satisfactory.
 5. Empty all boxes completely, open all inside containers, and examine all packing material so as not to overlook small articles.
- A.1.8 If Boxes are Missing or Damage Occurs:
1. You, the receiver, **not Burton**, are responsible for filing any claim(s) with the freight carrier within five (5) days after receipt of the shipment.

2. If damage or shortage occurs in transit, the freight carrier is required by law to make notation of a shortage or damage. This notation is to be made on the bill of lading.
3. If in your opinion there may be concealed damage, an agent from the delivering carrier is obligated to make an inspection after the goods are unpacked.
4. Do not destroy packing material until after the agent has made his report.
5. All claims must be made to the carrier, **not Burton**.
6. An RGA (Returned Goods Authorization) number must be obtained from Burton before merchandise can be returned.

A.2.0 Assembly, Single Ceiling Mount

A.2.1 Refer to Diagrams B and C:

(See A.1.0, Pre-Assembly, for additional important mounting information.)

Mount the ceiling casting to the ceiling/junction box assembly. Use three (3) 3/8" bolts, split lockwashers, and nuts in a triangular pattern. See diagrams for support details.

A.2.2 Refer to Diagrams A, D, and E:

Notes: The downtube is pre-cut and pre-drilled at the factory for the average user having an exam room with a 9-1/2 ft. ceiling. The proper height of the light should be determined by the end user. Typically the arms are installed 6-ft 6-in (~78") above the floor. When installed in this "typical" room, there will be approximately 1" of downtube showing above the ceiling plate.

A longer downtube (for higher ceilings) is available on special order. If a shorter downtube is needed, cut the top of the downtube and re-drill the holes, keeping the hole size and spacing from the top of the tube the same. The top end of the downtube has three holes, two on one side and one on the other.

Feed the wires and PVC tube from the extension arm assembly up through the downtube.

A.2.3 Refer to Diagram D:

The extension arm/pivot support assembly is pre-assembled at the factory. It has five set screws on it, three in one vertical row and two in another:

- The lowest set screw on the 3-screw side is nylon tipped and serves as a friction screw. Do not remove this screw.
- The 2 top set screws on the 3-hole side are dog-point screws. Remove them. You will reinstall them shortly.
- The 2 set screws on the 2-hole side are cup-point screws. Leave them in place. You will tighten them shortly.

Slide the pivot support up over the downtube.

Re-insert the two dog-point set screws, making sure they engage the mating holes in the downtube. Then secure the extension arm assembly to the downtube by tightening all four set screws (2 dog-point and 2 cup-point).

Although the friction screw is preset at the factory, its setting can be changed in the field to suit the needs of the user. Minor adjustments of the friction screw will control rotational friction of the extension arm about the downtube. (If the set screw is loosened too far, the pivot stop will not engage.)

A.2.4 Refer to Diagrams E, G and J:

Slide the collar and bell housing down the tube so that they will be out of your way while you perform the following steps. Temporarily hold the collar in place with two set screws.

Slide the downtube and harness up the center hole in the ceiling casting until the top of the tube protrudes approximately one inch above the casting. The top hole in the downtube will show just above the ceiling casting. Insert the cotter (or Clevis) pin into this hole.

Fasten the tube securely by inserting the (2) set screws into the holes in the ceiling casting. Install a dog-point screw in the top hole and a cup-point screw in the bottom hole.

Note to Electrical Contractor: All electrical components must be approved for use in accordance with the NEC (United States) or National Canadian Electrical Code (Canada). The installer/technician must be appropriately licensed.

Make the final wiring connections. Secondary wires with quick connects mate with corresponding colored wires from the transformer. For primary wires, see Diag. G.

Re-install the bell housing over the casting by sliding it and the collar back up to cover the casting. Hold the bell housing (dome) in place with set screws in the collar.

A.2.5 Refer to Diagram F:

Lightly grease the outside of the hollow shaft that protrudes from the end of the extension arm opposite the pivot support. Use the small green tube of grease in the hardware pack. **Note that this is the only time lubricant is applied during the life of the fixture.**

Run three (3) conductors from the lighthead arm through the hollow shaft and into the extension arm. Mate the connectors according to color code. You can access them through the slot in the top of the extension arm. Depending on the lighthead being installed, there will be one or two unused wires, which can be pushed back into the extension arm.

Push the lighthead/articulating arm down onto the lightly greased shaft that is on the end of the extension arm.

Retain the lighthead arm on the shaft by inserting the provided friction plug, spring, and threaded plug in the order shown in the diagram.

Note that the friction plug must be facing the in correct direction in order to “capture” the shaft by riding down in the shaft groove.

Insert the spring and screw in the threaded plug until it is flush with the mating surface. It does not require full tightening to hold the pivot support assembly in place. It can be tightened for increased friction, if desired, after the overall assembly is complete.

A.2.6 Refer to Diagram H:

Push the wires back into the extension arm and, using a plastic mallet, gently tap the provided end caps into place. Also, align the provided hole plug in the hole on the top of the articulating arm. Use a mallet to drive the hole plug flush.

Fasten the cover plate to the slot in the top of the extension arm using the 4-40 screws provided.

A.2.7 Refer to Diagram I:

Assemble the external friction parts and elbow cover provided in the hardware kit to the articulating arm as shown. Keep the parts in the order shown in the diagram. Note that the elbow cover fits between the Belleville washer and the fiber washer.

A.2.8 Energize the light assembly by turning the switch to On to check proper operation.

The extension arm should swing freely horizontally, but have a slight restraining force due to the friction control in the central pivot support. The extension arm should swing back and forth about 360°. It will not swing past 360° because of an internal stop which prevents the internal wiring from becoming tangled.

The articulating arm should move freely up and down approximately 40°, and horizontally back and forth through 340°. Built-in friction for both vertical and horizontal movement prevents drift of the head/arm. Note that the articulating arm will not swing through the center downtube.

A.2.9 Leave the following items for the end user:

- These manuals:
 - IFU – Outpatient® II / CoolSpot™ II Head and Arm*
 - IFU – Outpatient® II / CoolSpot™ II Ceiling Mount Assembly*
- The Owner Registration/Warranty Card
- Any small wrenches that were included in the installation package

A.3.0 Assembly, Double Ceiling Mount

A.3.1 Refer to Diagrams B and C:

(See A.1.0, Pre-Assembly, for additional important mounting information.)

Mount the ceiling casting to the ceiling/junction box assembly. Use three (3) 3/8" bolts, split lockwashers, and nuts in a triangular pattern. See diagrams for support details.

A.3.2 Refer to Diagrams M, and N:

Notes: The downtube is pre-cut and pre-drilled at the factory for the average user having an exam room with a 9-1/2 ft. ceiling. The proper height of the light should be determined by the end user. Typically the arms are installed 6-ft 6-in (approximately 78") above the floor. When installed in this "typical" room, there will be approximately 1" of downtube showing above the ceiling plate.

A longer downtube (for higher ceilings) is available on special order. If a shorter downtube is needed, cut the top of the downtube and re-drill the holes, keeping hole size and spacing from the top of the tube the same. The top end of the downtube has three holes, two on one side and one on the other.

Feed the wires from the extension arm up through the downtube.

Slide the pivot support onto the tube. Make certain the six (6) holes in the pivot support match the holes in the bottom end of the down-tube. Fasten the two together with the 8-32 screws provided.

A.3.3 Refer to Diagram N:

Slide the collar and bell housing (dome) down the tube, so that it will be out of your way to perform following steps. Temporarily hold the collar in place with set screws.

Slide the downtube up the center hole in the ceiling casting until the top protrudes approximately one inch above the casting. The top hole in the downtube will show just above the ceiling casting. Insert the cotter (or Clevis) pin into this top hole (as in Diagram E).

Fasten the tube securely by inserting the two (2) set screws into the holes in the ceiling casting. Install a dog-point screw in the top hole and a cup-point screw into the bottom hole.

A.3.4 Refer to Diagrams O and P:

Note to Electrical Contractor: All electrical components must be approved for use in accordance with the NEC (United States) or National Canadian Electrical Code (Canada). The installer/technician must be appropriately licensed.

Make the final wire connections to the terminal block and transformer. Secondary wires with quick connects mate with corresponding colored wires from the transformer.

Then re-install the bell housing over the casting by sliding it and the collar back up to cover the casting. Hold the bell housing in place with set screws in the collar.

A.3.5 Refer to Diagram F:

Lightly grease the outside of the hollow shaft protruding upward from the end of each extension arm opposite the central pivot support. Use the small green tube of grease in the hardware pack. **Note that this is the only time that lubricant is applied during the life of the fixture.**

To mate the connectors, run the conductors from each lighthouse through the hollow shaft on the extension arm. Mate the connectors according to color code. You will be able to access the connectors through the slot in the top of the extension arm. Depending on the lighthouse being installed, there may be one or two unused wires, which can be pushed back into the extension arm.

Slide the lighthouse/articulating arm down onto the lightly greased shaft that is on the end of the extension arm.

Retain the articulating arm on the shaft by using the provided friction plug, spring, and threaded plug. Note that the friction plug must be facing in the correct direction to “capture” the shaft by riding into the shaft groove.

Screw the threaded plug in until it is flush with the mating surface. It does not require full tightening to hold the pivot support assembly in place. It can be tightened for increased friction, if desired, after the overall assembly is complete.

A.3.6 Refer to Diagram H:

Push the wires back into each extension arm and, using a plastic mallet, gently tap the provided end caps into place. Also, align the provided hole plug in the hole on the top of each articulating arm. Use a mallet to drive the hole plugs flush.

Fasten the cover plate to each extension arm using the 4-40 screws provided.

A.3.7 Refer to Diagram I:

Assemble the external friction parts and elbow covers provided in the hardware kit to the articulating arms. Keep parts in the order shown in the diagram. Note that the elbow cover fits between the Belleville washer and the fiber washer.

A.3.8 Energize the light assembly by turning the switch to On, and verify proper electrical operation. Each extension arm should swing freely horizontally, but have a slight restraining force due to the friction on the shafts in the central pivot support. Each extension arm should swing back and forth about 320°.

The articulating arms should move freely up and down approximately $\pm 40^\circ$, and horizontally back and forth through 320°. Built-in friction for both vertical and horizontal movement prevents drift of the head/arm. Note that the articulating arm will not swing past the center downtube.

A.3.9 Leave the following items for the end user:

- These manuals:
 - IFU – Outpatient[®] II / CoolSpot[™] II Head and Arm*
 - IFU – Outpatient[®] II / CoolSpot[™] II Ceiling Mount Assembly*
- The Owner Registration/Warranty Card
- Any small wrenches that were included in the installation package

Diagram A – Outline Drawing, Single Ceiling Mount

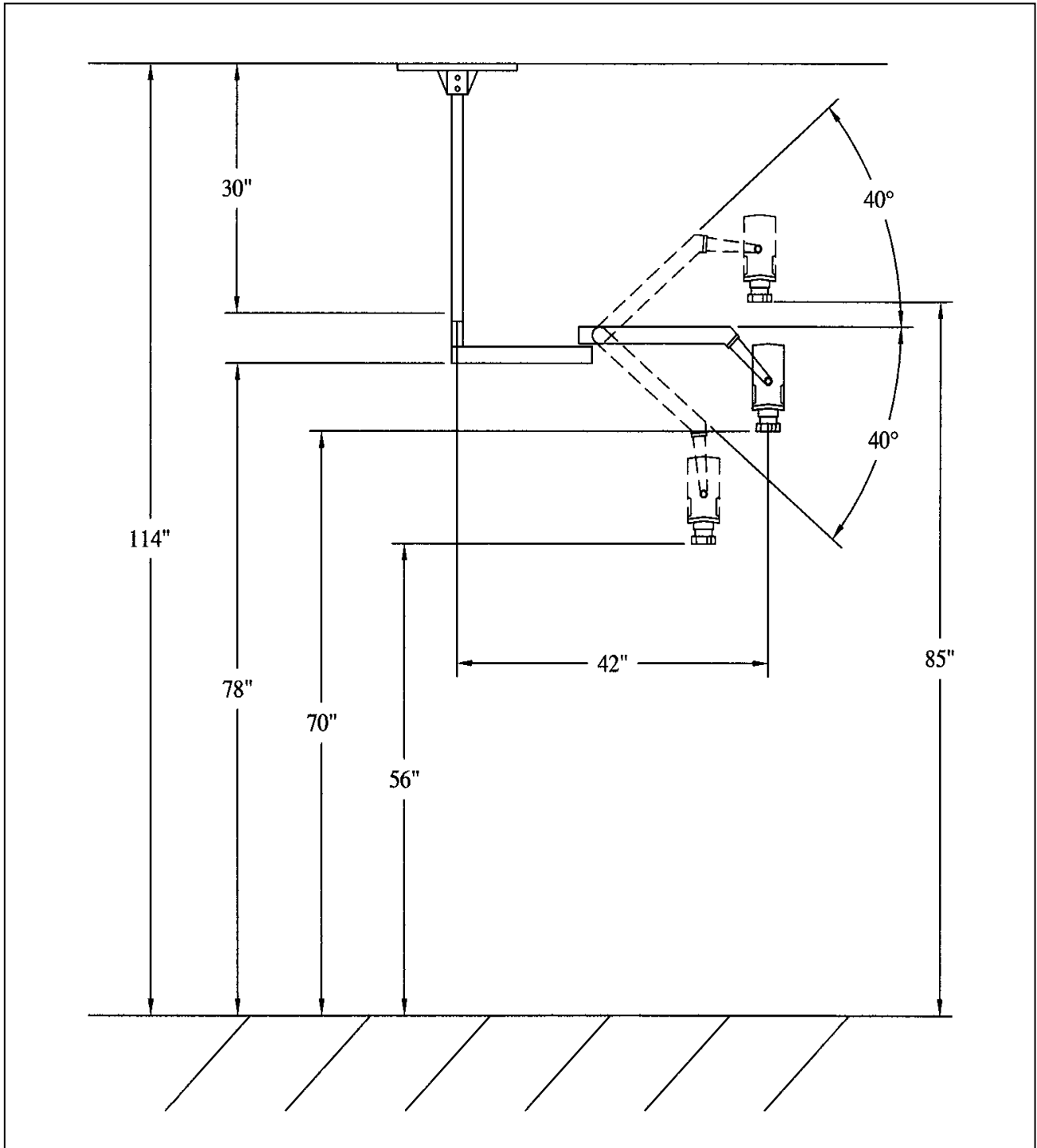
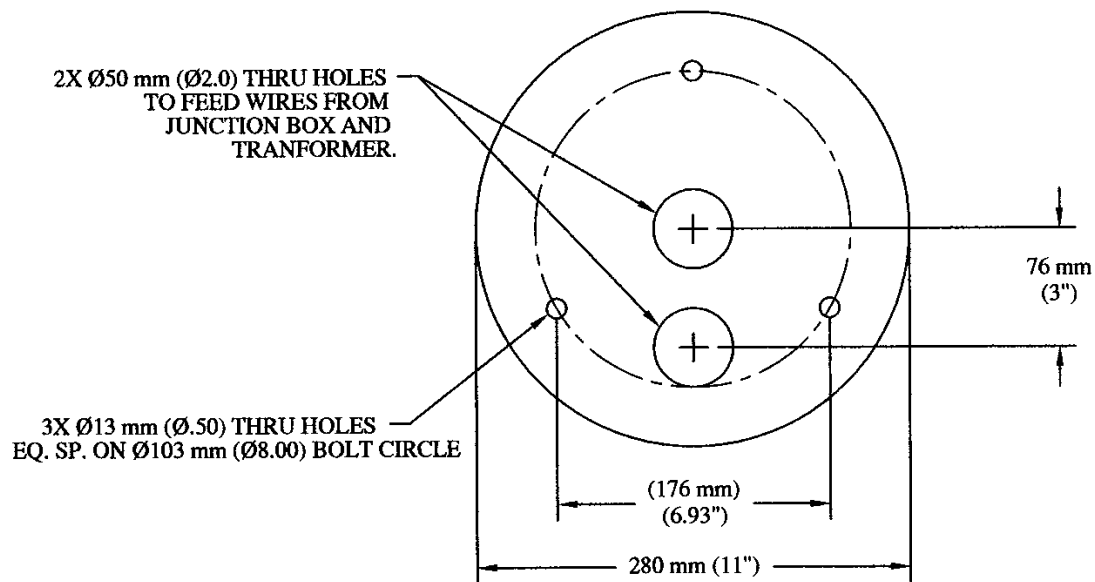
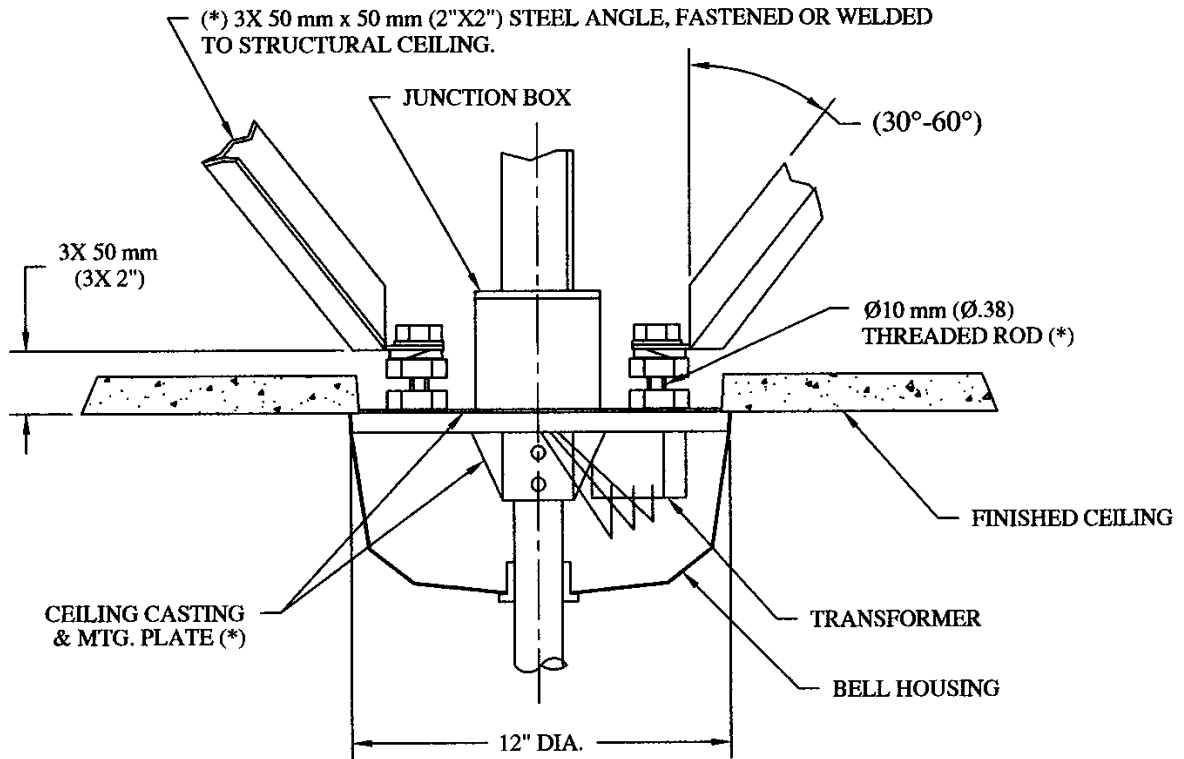


Diagram B – Reference Diagram, Ceiling Mount

(*) FURNISHED BY CONTRACTOR



MOUNTING PLATE: 6 mm (.25") THICK MIN. STEEL PLATE, TO BE FURNISHED BY CONTRACTOR IF DEEMED NECESSARY.

Diagram C – Mounting the Ceiling Casting

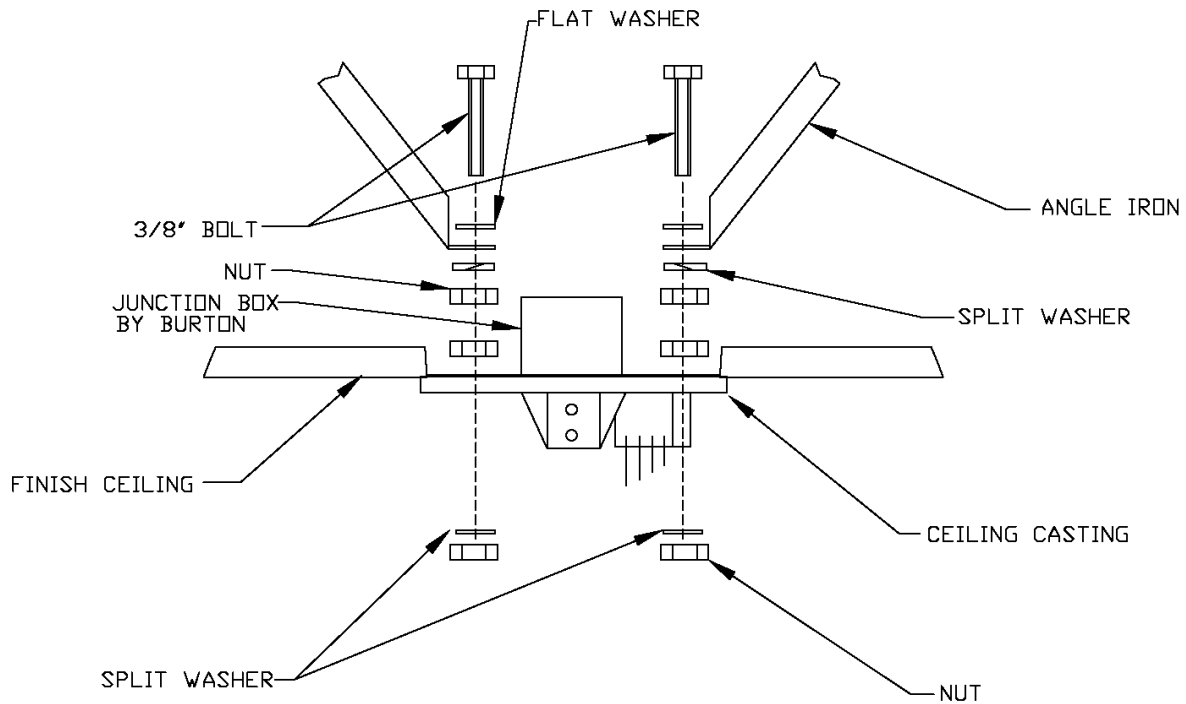


Diagram D – Assembling the Extension Arm/Pivot Support to the Downtube

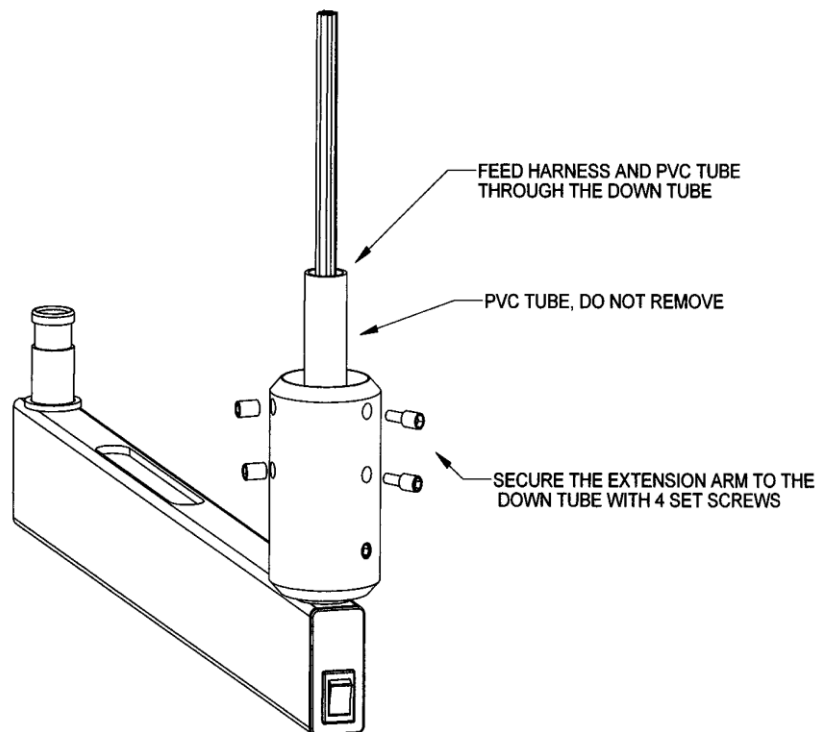


Diagram E – Assembling the Single Ceiling Downtube, Bell Housing, and Extension Arm

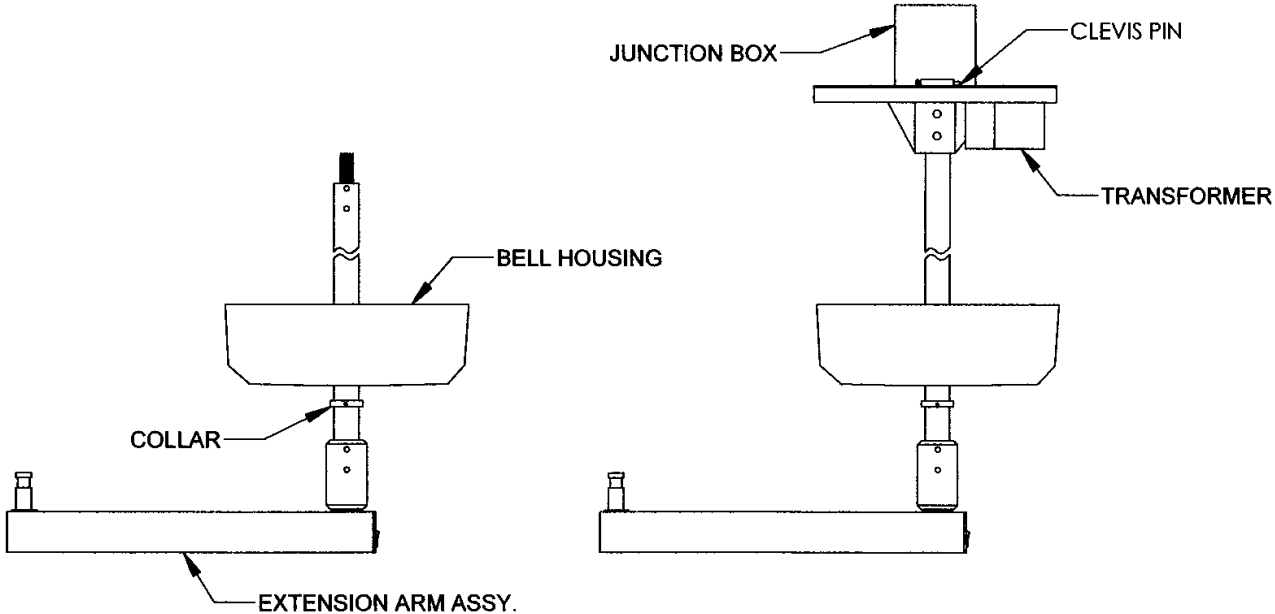


Diagram F – Attaching the Head Arm to the Extension Arm

Head Arm

Extension Arm

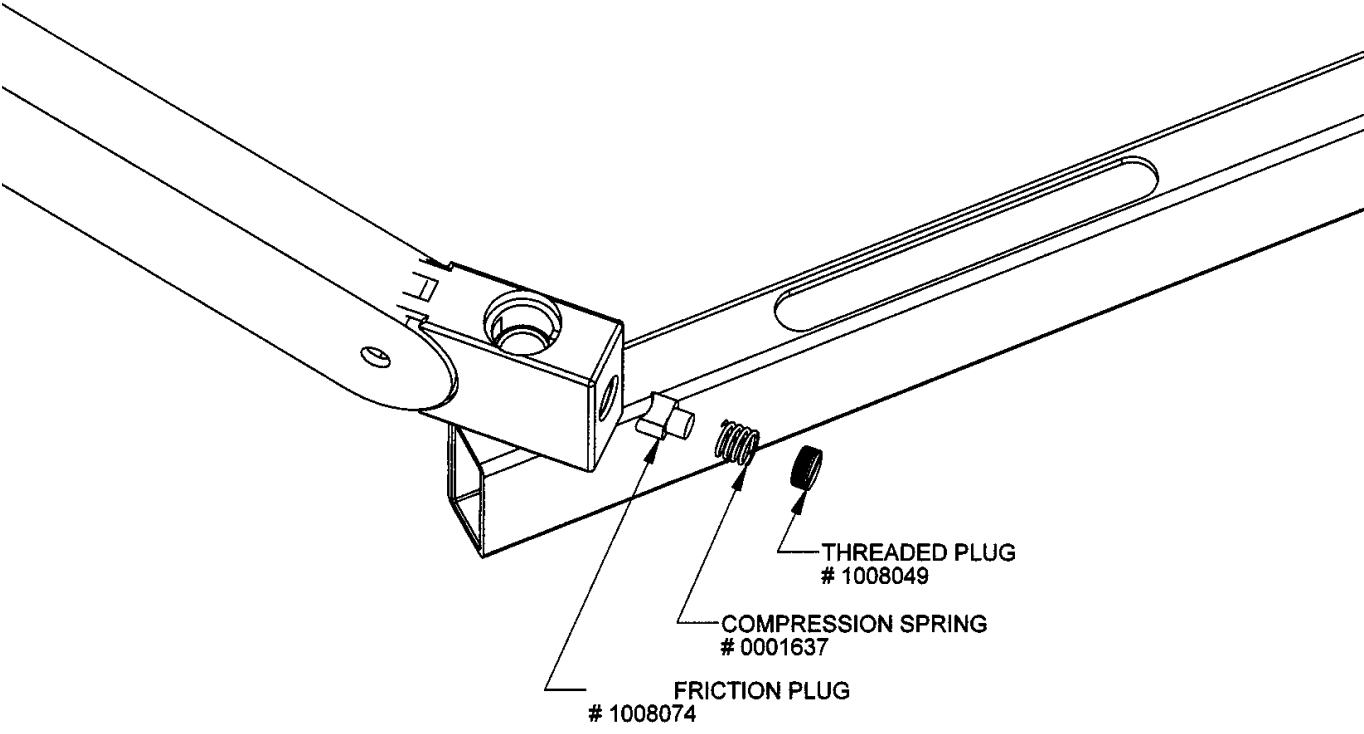


Diagram G – Connecting Single Ceiling Supply Lines

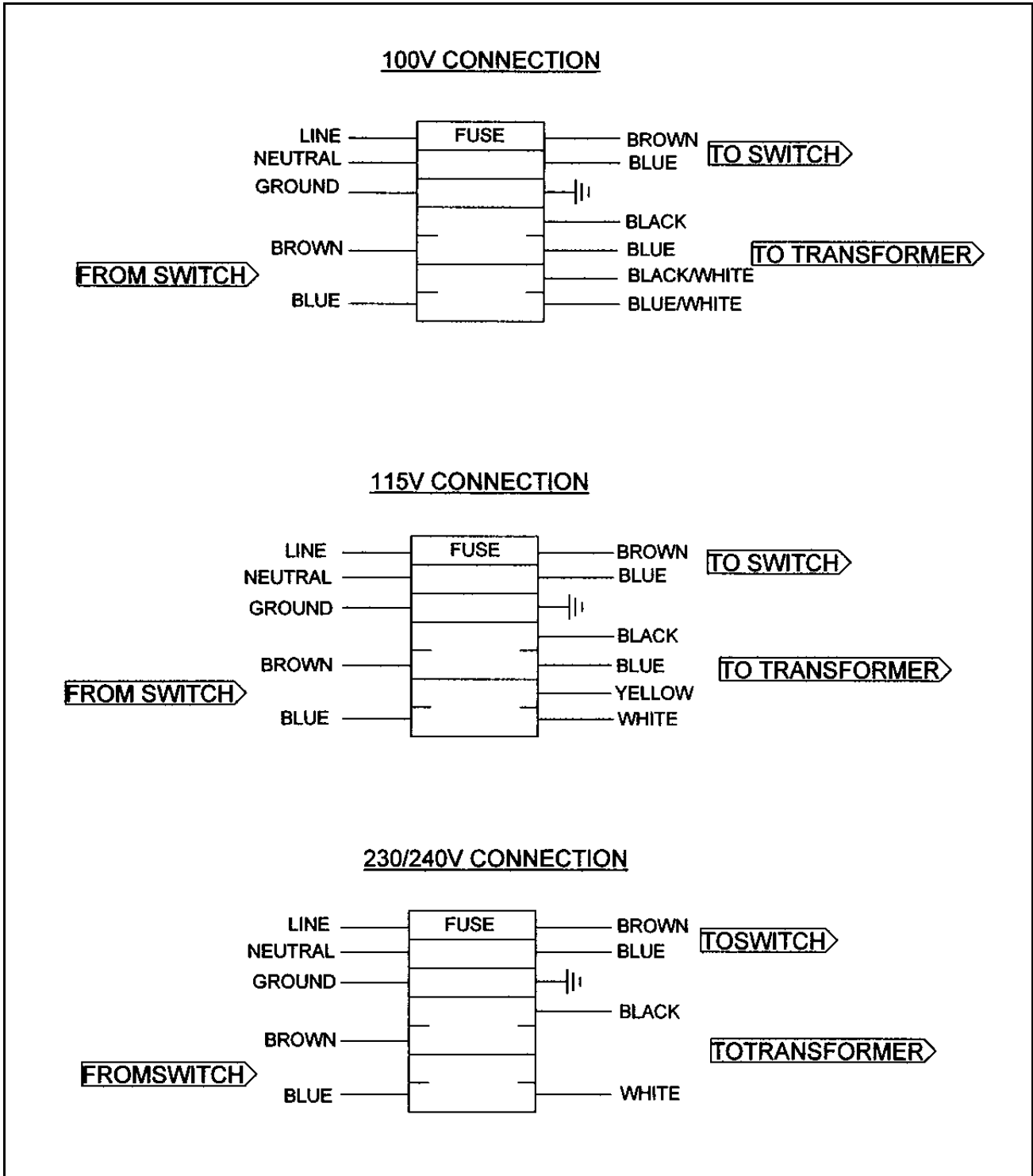


Diagram H – Attaching End Caps, Cover Plate

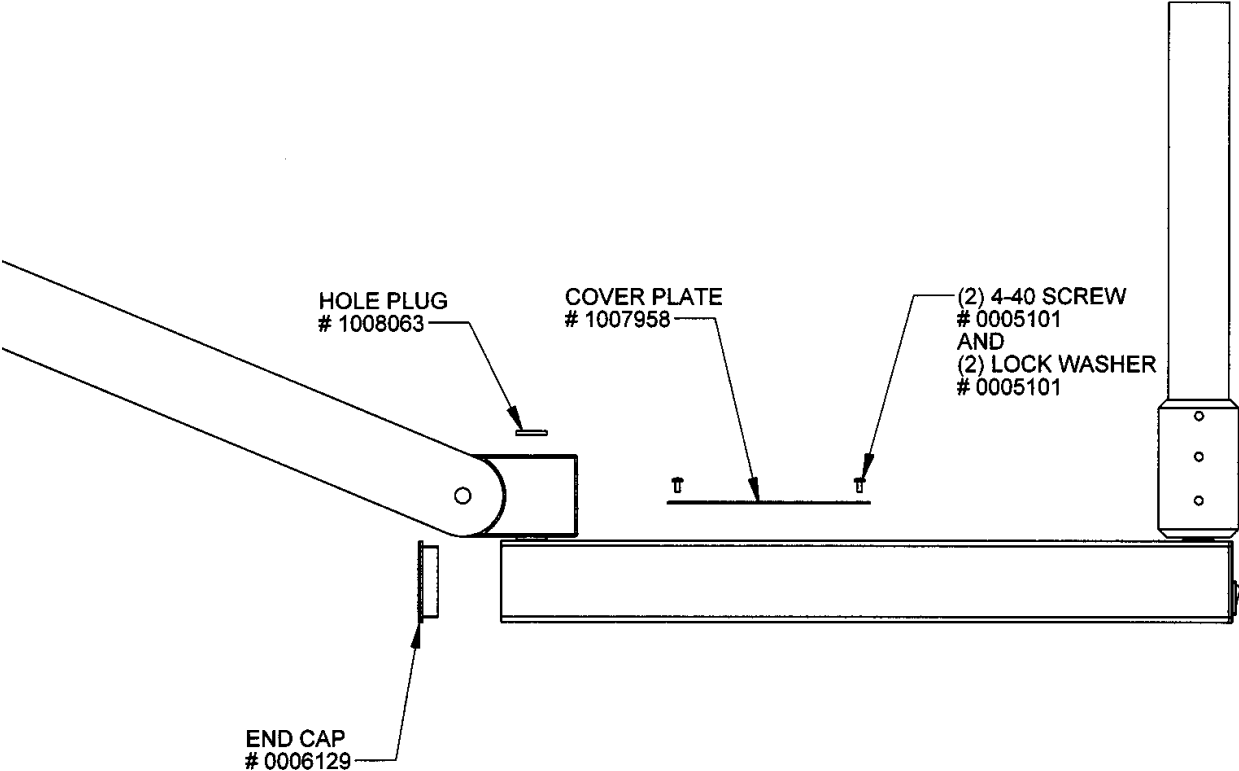
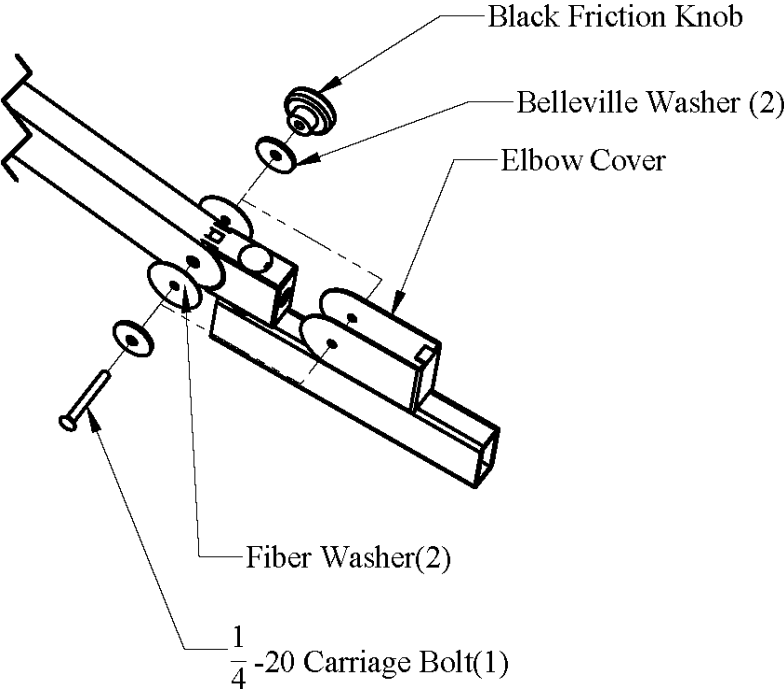


Diagram I – Installing Friction Knob and Elbow Cover



Note: Fiber washer goes between elbow cover and arm.

Diagram J – Wiring Diagram, CoolSpot™ II and Outpatient® II Single Ceiling

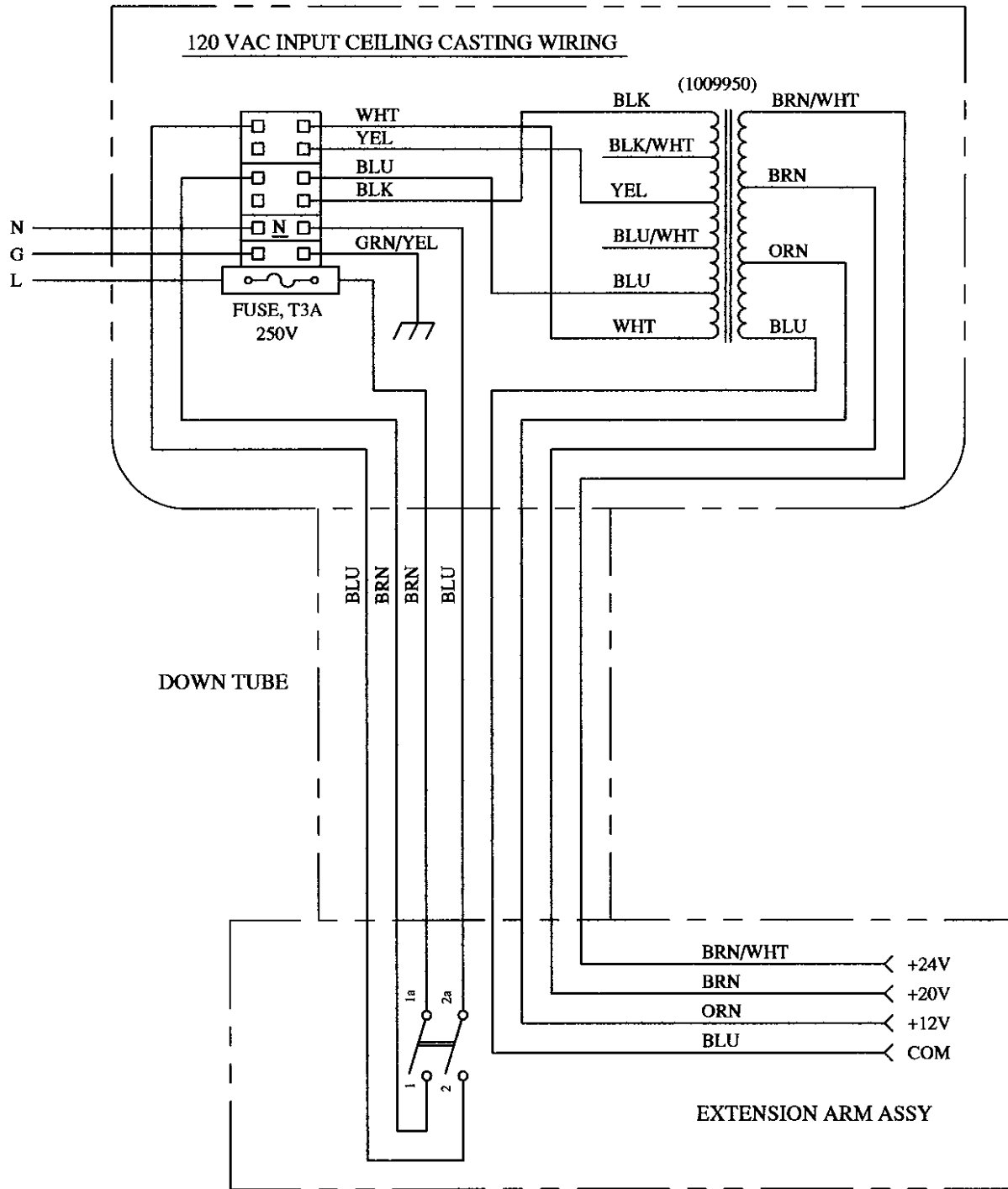
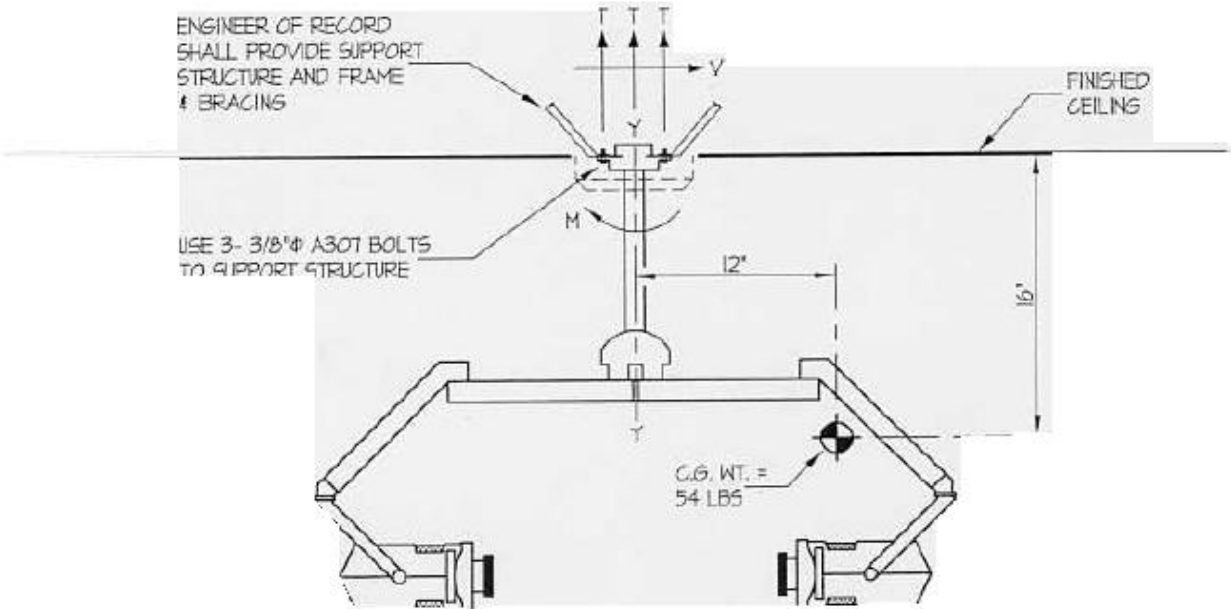


Diagram K – Seismic Anchorage, Page 1

EASE EQUIPMENT ANCHORAGE & SEISMIC ENGINEERING www.equipmentanchorage.com		
BURTON MEDICAL PRODUCTS	DES. R. LA BRIE	SHEET 1
	JOB NO. 11-0310	OF 2 SHEETS
COOLSPOT/OUTPATIENT MINOR SURGERY/ DIAGNOSTIC LIGHTS	DATE 9/2/04	
<u>SEISMIC ANCHORAGE</u>	<u>CEILING MOUNTED</u>	



T_{max} = 302 LBS/BOLT
 V_{max} = 71 LBS/BOLT

ELEVATION

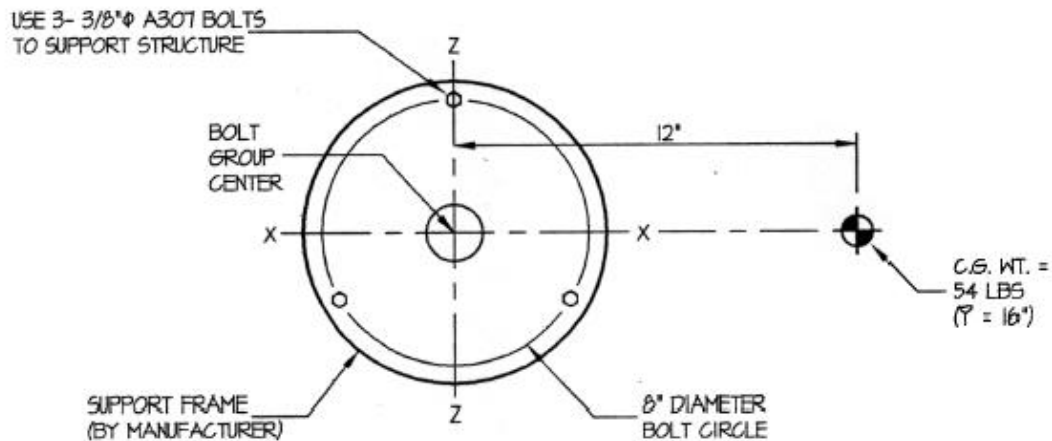
NOTES:

- FORCES ARE DETERMINED PER 2001 CALIFORNIA BUILDING CODE - SECTION 1632A AND HAVE BEEN FACTORED TO REPRESENT WORKING DESIGN LOADS, NOT ULTIMATE.
 HORIZONTAL FORCE (V_H) = 0.94W - (C_a = 66 & I_p = 15)
 VERTICAL FORCE (V_V) = 0.33(V_H)
- CENTER OF GRAVITY (C.G.) WEIGHT IS A MAXIMUM. THIS CALCULATION ENCOMPASSES ALL WEIGHTS UP TO THE MAXIMUM WEIGHT SHOWN.
- ENGINEER OF RECORD FOR THE BUILDING SHALL PROVIDE SUPPORT STRUCTURE DESIGNED TO SUPPORT WEIGHTS AND FORCES SHOWN.



Diagram L – Seismic Anchorage, Page 2

EASE EQUIPMENT ANCHORAGE & SEISMIC ENGINEERING www.equipmentanchorage.com		
BURTON MEDICAL PRODUCTS	DES. R. LA BRIE	SHEET 2
	JOB NO. 11-0310	OF 2 SHEETS
COOLSPOT/OUTPATIENT MINOR SURGERY/ DIAGNOSTIC LIGHTS	DATE 9/2/04	
<u>SEISMIC ANCHORAGE</u>	<u>CEILING MOUNTED</u>	



PLAN AT CEILING

LOADS:

WEIGHT = 54 LBS
 HORIZONTAL FORCE (V_H) = 51 LBS
 VERTICAL FORCE (V_V) = 17 LBS

BOLT GROUP PROPERTIES:

I_{X-X} = 24 in.⁴
 I_{Z-Z} = 24 in.⁴
 I_{Y-Y} = 48 in.⁴

MOMENTS:

M_{XX} = 51#(16") + (54# + 17#)12" = 1668"#
 M_{ZZ} = 51#(16") + (54# + 17#)12" = 1668"#
 M_{YY} = 51#(12") = 648"#

BOLT FORCES:

TENSION (T)

$$T = \frac{1668\text{"}(4\text{'})}{24} + \frac{54\# + 17\#}{3} = 302 \text{ LBS/BOLT (MAX)}$$

SHEAR (V)

$$V = \frac{51\#}{3} + \frac{648\text{"}(4\text{'})}{48} = 71 \text{ LBS/BOLT (MAX)}$$

Diagram M – Outline Drawing, Double Ceiling Mount

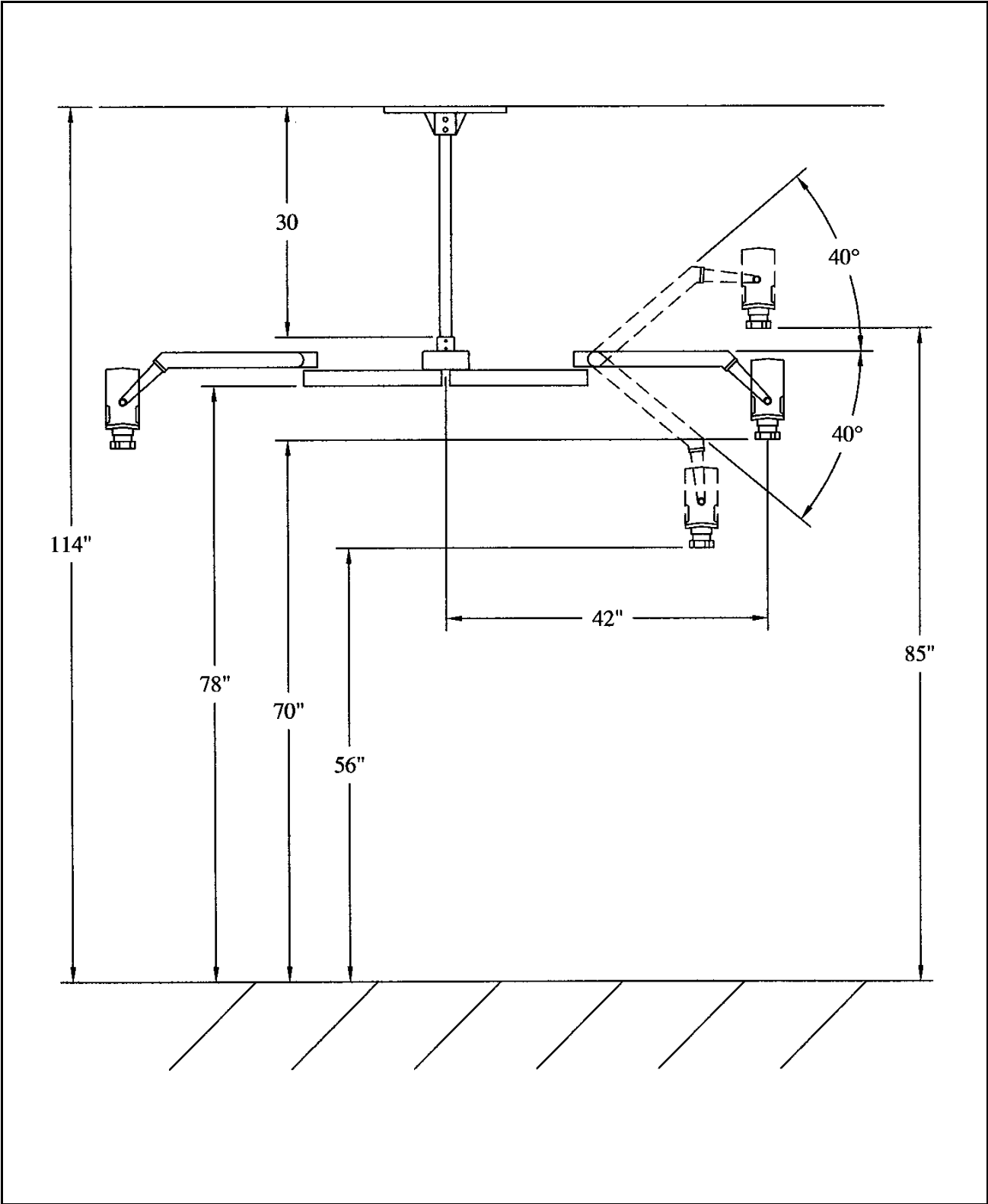


Diagram N – Assembling the Double Ceiling Downtube, Bell Housing, and Extension Arm

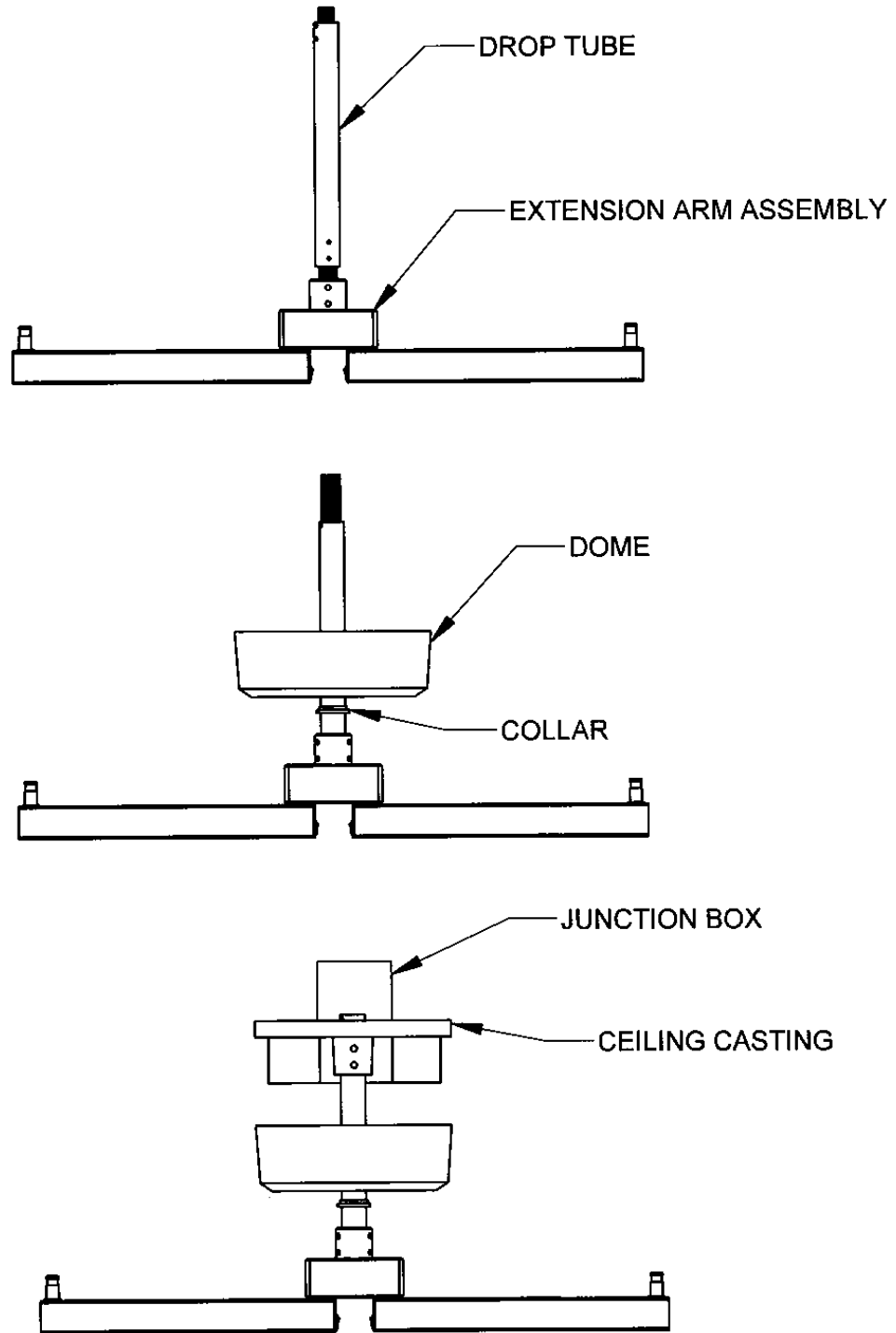


Diagram O – Connecting Double Ceiling Supply Lines

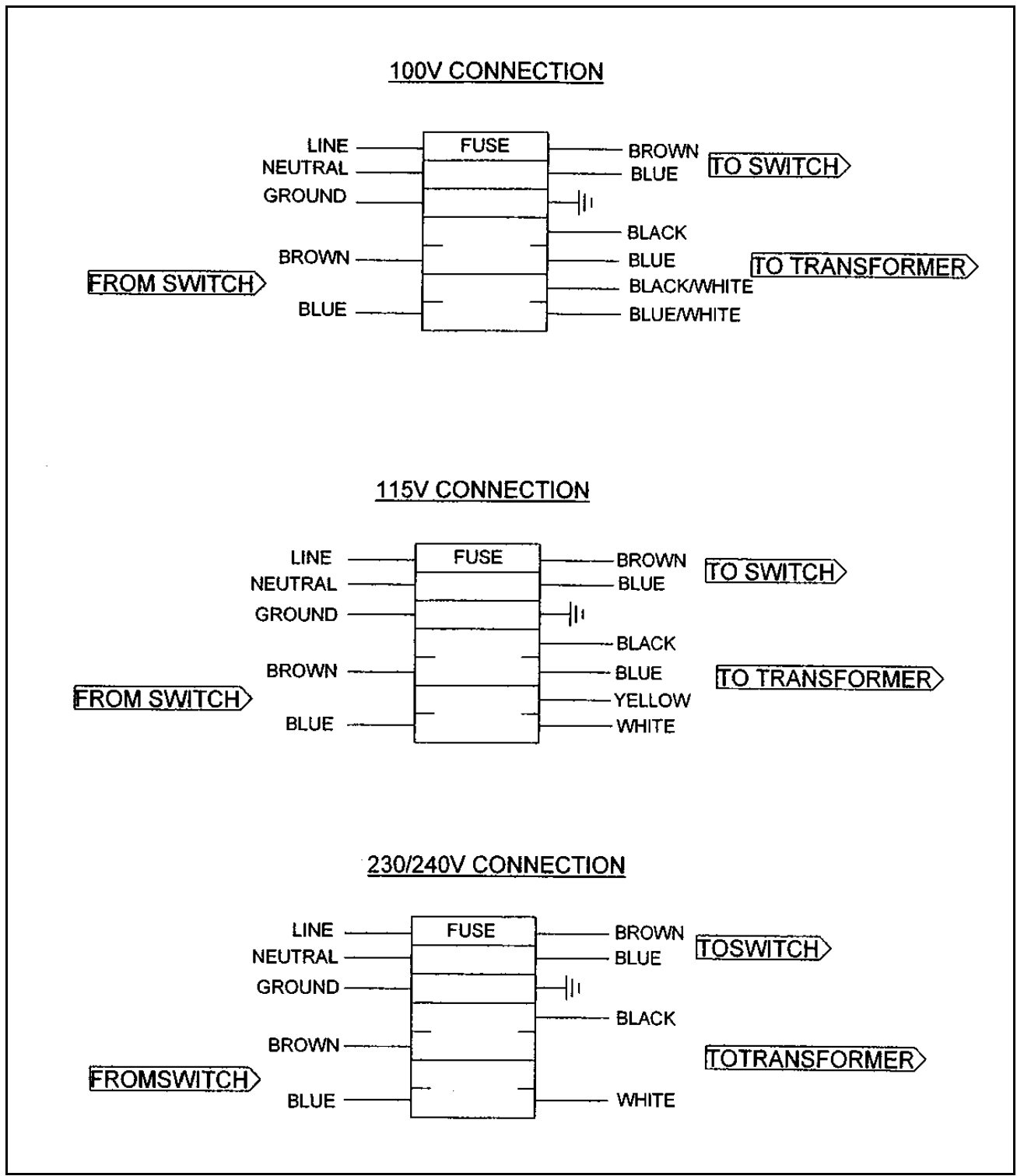
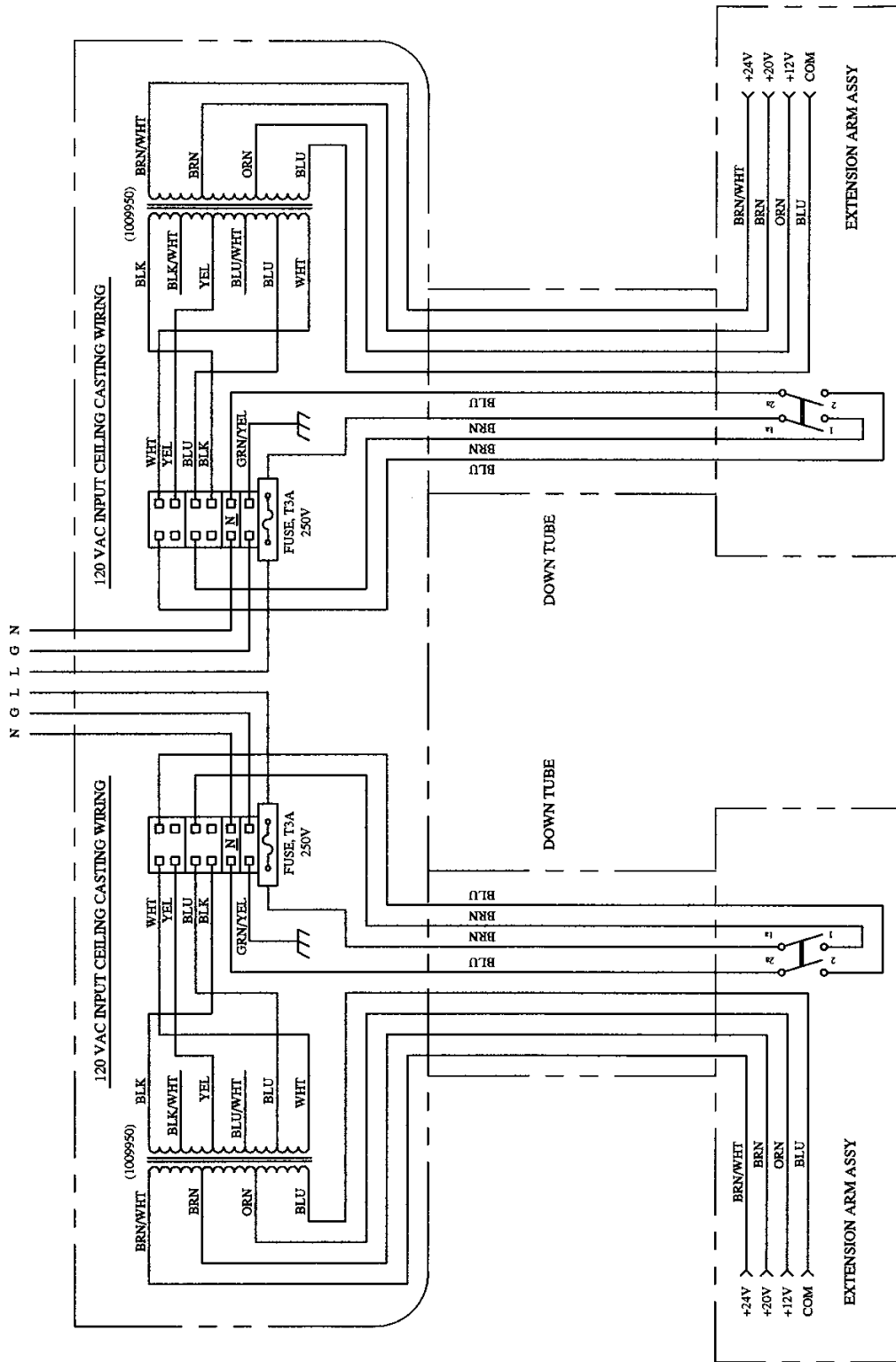


Diagram P – Wiring Diagram, CoolSpot™ II, Outpatient® II, and Combo Double Ceiling Mount



B.0 Maintenance

B.1.0 Fuse Replacement

Disconnect power to the lamp circuit at the main breaker before replacing fuses. Fuses are under the ceiling cover. Access is gained by lowering the ceiling cover.

B.2.0 Cleaning (weekly, or as needed – **unplug or turn off the fixture first**)

B.2.1 External surfaces of the Outpatient[®] II and CoolSpot[™] II fixtures are polycarbonate, vinyl, or powder-painted aluminum or steel. Suggested cleaning technique is to use a soft cloth and mild soap in water. Do not let any water solution run into the arm or lighthead. After cleansing, dry all surfaces promptly with a soft cloth or towel.

B.2.2 For especially stubborn external stains, rubbing or denatured alcohol can be used. Never use organic solvents such as paint thinners, MEK, or acetone.

B.2.3 Every 100 hours of typical use, open the lighthead and blow out the loose dust. Use a damp cloth or swab to clean out remaining dirt, especially in the grill areas. Clean the lenses and exterior of the light with a mild detergent or alcohol solution.

B.2.4 Handle Sterilization:

Outpatient[®] II: The central, single-post handle may be removed for cleaning and sterilization (ETO or steam). Push in the locking rod to release the handle. To reinstall the sterilized handle, locate the machined flat surface facing the locking rod and push it in until it bottoms out. Twist the handle until it snaps (~ ¼ turn).

CoolSpot[™] II: The single-post handle on the lighthead can be sterilized with steam or ETO and re-attached without touching the lighthead. Simply unscrew the handle to remove it.

Disposable handle covers are an available option for both models: order using Burton part number 0008100PK (25 pack).

Sterilization Protocol:

1. Place the handle in the autoclave.
2. Set the autoclave cycle for 270°F (132°C) pre-vacuum cycle.
3. Set the cycle time for 3 minutes, turn the sterilizer on, and wait for the process to be completed.
4. Remove the handle and place it in use, or transport and store it in a sterile environment pending use.

B.3.0 Ceiling Mount Preventive Maintenance

Check	Corrective Action
<p>Weekly Check overall operation of the fixture:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Do the lamps swing easily through their arcs (but are prevented from swinging through 360° by built-in stops or other arms)? <input type="checkbox"/> Do the switches, and the bulbs and fans, in the light heads operate properly? <input type="checkbox"/> Are the horizontal extension arms level (not sagging)? <input type="checkbox"/> Do the lamp heads stay in position when the arms are moved up and down (not drift)? <input type="checkbox"/> Do all components appear secure? 	<p>If the answer to any of these questions is NO, do not use the product. Consult with your maintenance personnel before operating the light.</p>
<p>Monthly</p> <ul style="list-style-type: none"> <input type="checkbox"/> Check tightness of set screws holding the down-tube to the ceiling casting. <input type="checkbox"/> Check tightness of screws holding the transition/pivot assembly to the down-tube. (If loose, arm/light could drop.) 	<p>Remove the outer cover by loosening the lock ring (collar), slide the cover down the tube to give access to ceiling casting. Tighten loose set screws with Allen wrench. Tighten with Allen wrench.</p>
<p>Annually Perform weekly and monthly maintenance, and:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Check wear on the retainer plug at the joint between the horizontal extension arm and the light arm. (If worn, arm could lift out of support.) <input type="checkbox"/> Check to see that retainer plug is seated in mating groove of shaft. (If loose, arm could lift out of support.) <input type="checkbox"/> Check wire connectors for evidence of overheating (charring, discoloration), and chafed insulation. <input type="checkbox"/> Verify the downtube is secure. There must be two “dog-point” set screws holding it to the ceiling casting, and in recent issues there will be a safety cotter pin through the tube above the casting. 	<p>See corrective actions above.</p> <p>Remove retaining threaded screw, compression spring and retainer plug (use nose pliers). If plug is worn on upper corner of shaft, replace it with a new one. Remove retaining threaded screw, compression spring and retainer plug (use nose pliers). If plug is not seated properly, re-seat it.</p> <p>Replace as necessary.</p> <p>Correct as necessary.</p>



Luxo Medical Products

BURTON MEDICAL

21100 Lassen Street

Chatsworth, CA 91311 USA

Phone 800-444-9909, 818-701-8700

Fax: 800-765-1770, 818-701-8725

www.burtonmedical.com



The Right Light