

## Lucent L690-LED Installation and Operation Manual



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# **Lucent LED Operatory Light Quick Reference Installation Guide**

# **ASSEMBLING THE HEAD TO THE ARM**

Remove adaptor Bushing

Attach bushing to light head

# **ELECTRICAL CONNECTIONS**

Connect wire harness

head to arm Secure light

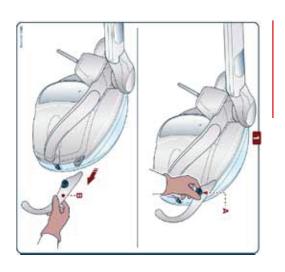








## **Light Handles**



Switch on / off / Adjustment

- To switch the lamp On and Off, press and release the switch to the LEFT or RIGHT side. DON'T push and pull the switch. It only moves in a left and right direction When the lamp is switched On / Off, the device will beep (once)

	Riaht & Left Liaht handle

Light shield wrench	Light switch toggle extension

Light bushing pre installed into arm.

Signature

Date



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GENERAL INFORMATION

Installation

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Operation instructions

Light head and vertical arm adjustment

Replacement Parts List

**CLEANING & DISINFECTING GUIDE** 

Warranty

TROUBLE SHOOTING GUIDE

Technical Assistance is available Monday through Friday, 8:00 Am to 5:00 PM PST.



#### **SYMBOLS**



#### **DANGER**

The paragraphs marked with this symbol contain instructions which must be followed carefully to avoid damaging the device, the operator and the patient.



#### **WARNINGS**

These instructions warn the operator that it is mandatory to operate with utmost care to avoid situations which could damage the device.



#### RESTRICTION

This icon indicates the most appropriate behavior to avoid damaging the device.



#### **RECOMMENDATIONS**

This icon indicates useful details for an effective use of the device.



Dispose of the device according to the regulations on separate waste collection of electrical equipment. Directive WEEE 2012/19/EC



Class II device.



Danger warning symbol



Refer to the documentation enclosed..

ATMOSPHERIC PRESSURE



RELATIVE HUMIDITY



TEMPERATURE



SWITCH SYMBOLS



ADJUSTMENT SENSOR







SERIAL NUMBER

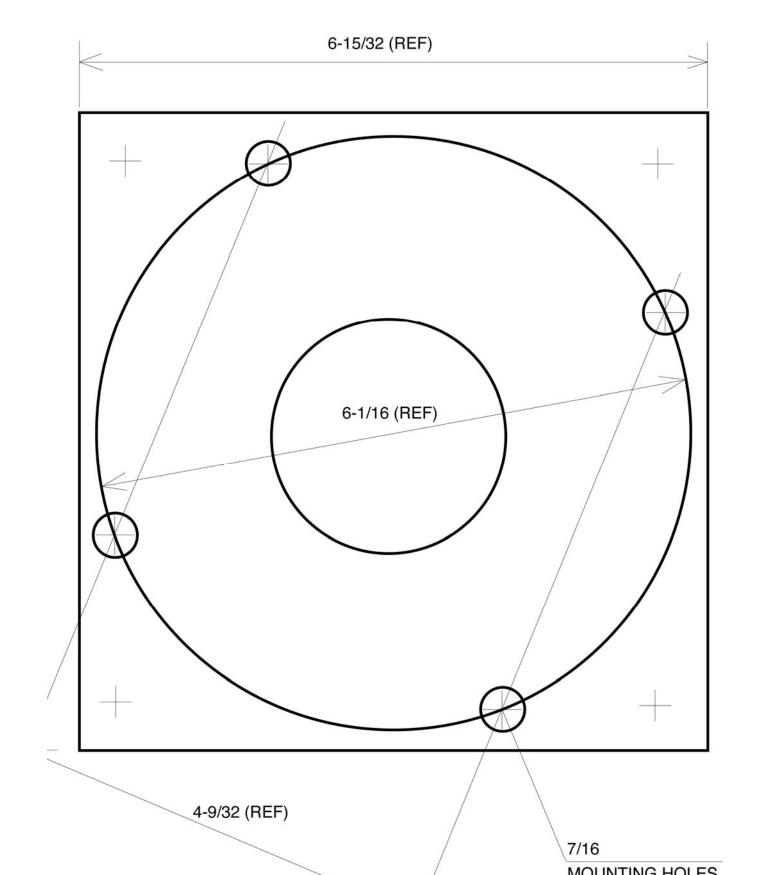


ITEM CODE



**STERILISATION** 

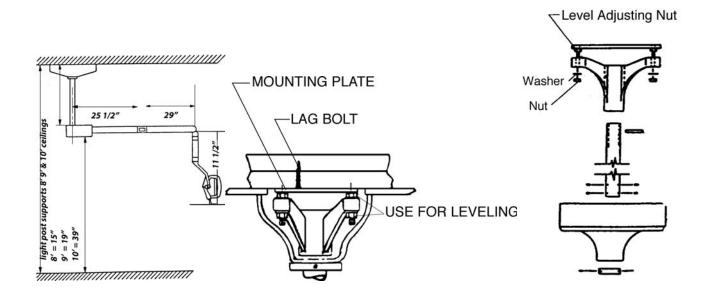






- 1. Secure mounting plate to the ceiling using supplied LAG bolts.
- 2. Route power supply through the center of the mounting plate.
- 3. Install the leveling nuts between the mounting plate and ceiling flange if not already attached.
- 4. Route the wire through drop post and Install the light post into the ceiling flange and secure it with the provided roll pin.
- 5. Secure the light post to the ceiling flange by tightening the set screws.
- 6. Slide the flange cover and flange cover retaining ring up over the drop post and secure it in place.
- 7. Connect the incoming power lines to the 3 cord wire and secure it with wire nuts.
- 8. Install the light transformer housing to the drop post and attached it using only the supplied set screws.

See diagram below for plate and flange installation.





The device has to be installed by specialized technicians only Make sure all the components listed below have been included in the package received.

- Dental head (version according to order)
- Wrench for front screen removal (8 fig.4)
- Instruction manual
- The device has to be cleaned prior to use (see "Cleaning the device" paragraph).
- Cut off the power supply prior to installation.

ELECTRICAL CONNECTION HEAD - ARM

For the electrical connections refer to the wiring diagrams given in the manual.

Always check the rating data prior to installation ASSEMBLING THE HEAD TO THE ARM (see product identification table)

Remove adaptor Bushing

Attach bushing to light head

Connect wire harness

Secure light head to arm









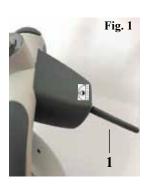


#### **FEATURES**

#### Versions

- "EDI LED" head can be supplied in the following versions:
- Head with switch
- Head with switch + automatic lighting function
- Head with con proximity sensor
- Head with switch + automatic lighting function
- Light source consisting of two LEDs whose light is mirrored into two parabolic reflectors.
- Reflecting surfaces with parabolic reflectors which allow obtaining a regular uniform spot light at all lighting levels and to uniformly distribute the light in the operating field with no shadows or dark areas created by the operator.
- Light intensity adjustment using a mechanical switch or with a sensor.
- Sensor enables the light to be switched on or off without direct contact, eliminating therefore the possibility of cross-infection.
- "Automatic lighting" function allows the lamp to get switched on automatically whenever the power is enabled.
- Easy maintenance thanks to the application of new technology that takes into consideration various requirement in terms of safety, ergonomics and hygiene.
- Removable handles for sterilization
- Front screen lower significantly internal contamination of the device.
- Electrical connection Follow the wiring diagrams

#### **DESCRIPTION OF PARTS**



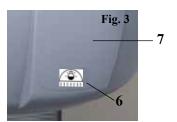


Fig. 4 8



- 1 On/Off switch (with or with no automatic lighting function) Adjusting the light intensity
- 2 Lens
- 3 Parabola
- 4 Handle
- 5 Front screen
- 6 Sensor (with or with no automatic lighting function) Adjusting the light intensity
- 7 Electronic board
- 8 Wrench for front screen removal



EDI LED head is used for lighting the oral cavity during surgery in dental practice. The optical parameters are obtained by positioning the lamp at 700 mm from the subject. At different distances the light spot could lose its optimum parameters in terms of size, homogeneity and lighting. It is therefore recommended to follow as much as possible the indicated distance.



Never use the head if any part thereof is faulty

#### **SIMBOLS**



ADJUSTING THE LIGHT INTENSITY





#### "EDI LED" HEAD WITH SWITCH

Switch on / off / Adjustment

- To switch the lamp On and Off, press and release the push button to the left or right side. When the lamp is switched On / Off, the device will beep (once).
- Adjustment: When switched on, the lamp is at its maximum lighting capacity. To lower light intensity, keep the push button pressed to the left /right side until it reaches the required intensity. When it reaches the minimum intensity, the device will beep once
- The adjustment goes from maximum to minimum light intensity.
- To go back to the maximum intensity, switch off and back on the lamp.



The light intensity will be MAXIMUM each time it is switch on. The push button has to be handled easily to avoid its breakage.

#### EDI LED " AUTOMATIC TURN ON FUNCTION

The "automatic lighting" function allows the lamp to turn on automatically whenever the power is enabled.

#### "EDI LED" WITH SENSOR (Optional)



#### Switch on / off / Adjustment

- To switch On or Off, get near the sensor up to a maximum distance of 3 cm. When the lamp is switched on / off, the device will beep (once).
- To adjust the light intensity, stand still near the sensor until it is reached the wanted intensity, from the maximum to the minimum value.
- The adjustment goes from maximum to minimum light intensity.
- To go back to the maximum intensity, switch off and back on the lamp.



#### Vertical Arm adjustment

If you experience a downward drift with your operatory lights vertical arm please follow the producer below.

- Remove the end cap cover on the end of the vertical arm closest to the light head. This requires a small Phillips screw driver.
- Turn the nut located at the end of the light arm to adjust the tension.
- Turn the nut clockwise to increase the tension. Turn the nut counter clockwise to decrease the tension.
- If your vertical light arm drifts down then you need to increase the tension.
- If the vertical light arm drifts back up you need to adjust the fric tion screw. Only adjust the friction screw in quarter turns.

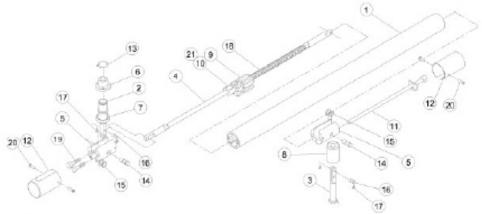
Tension Nut Friction Screw





# TPC

### **TPC**



Item	Part Number	Description.
1	56021	Cover Flex Arm
2	56022	Knuckle, Rigid Arm
3	56023	Knuckle, Head
4	56024	Spring Rod
4 5	56025	Extension Support
6	56026	Bushing
7	56027	Bezel
8	56028	Bushing
9	56029	Block Spring Tensioner
10	56030	Friction Block
11	56031	Tensioner Rod
12	56032	End Cap Cover
13	56033	Retainer Ring
14	56034	Long Pin
15	56035	Retainer Ring Small
16	56036	Short Pin
17	56037	Retainer Ring Small
18	56038	Spring
19	56039	Screw Cap Head Socket
20	56040	Screw, End Cap
21	56041	Friction Screw



#### Cleaning and disinfecting guide

\*The Manufacturer makes no representation as to the disinfectant efficacy of these products. We make no warranty expressed or implied that these disinfectants will not damage the surface finishes. Damage and discoloration of the surface finishes are not covered under the warranty. Iodophor based disinfectants will cause yellow staining on many surfaces. Regular

washing with soap and water will minimize this staining. Iodophor neutralizers such as Promedyne are also available.

Unacceptable Disinfectants

These disinfectants will harm the surface finishes of dental equipment and are not recommended.

Use of these products will void your warranty.

Chemical Composition / Trade Names Strong Phenols / Lysol, Lysol 2, Lysol

Phenol Alcohol Professional, Coe Foam, Coe combinations Spray Pump, Vitaphene, Omni II Sodium Hypochlorite / Clorox, Ajax, Purex

Household Bleach

Alcohol

Household Cleaners

Conditionally Acceptable Disinfectants

These disinfectants have been found to be the

least

harmful to the equipment surfaces by our test

methods.

Chemical Composition Trade Names

Iodophors Biocide, Aseptic IDC,

Wescodyne, SD5, Promedyne,

Iodo Five

Mild Phenols Procide ES, Asepti Steryl

Aerosol

Glutaraldehyde / Sterall Spray, Coldspor

Phenol Sprays

Synergized Super Dis cide, Cavicide,

Kleenaseptic

Quat

Phenol/Water Sprays Top Cide, Sporicidin Pump

Spray Birex se



#### Warranty Information

LED Operatory lights are guaranteed to be free from defects in workmanship and materials for a 2 years from date of purchase, unless otherwise stated. TPC will repair or replace any defective "part" at no charge. TPC will not be responsible for labor charges or shipping charges to / from the TPC facility. This guarantee does not cover normal wear or stains on surface finish. The guarantee does not cover damage resulting from improper installation, misuse or accidents incurred in shipping and handling. All claims against the freight carrier must be initiated at the time the damaged items are received. The claim is the responsibility of the customer. We are improving our products on a continuous basis. We reserve the right to make modifications without the need for prior notification and are not obliged to modify previously manufactured items. Light bulbs are not covered under any type of warranty. Only authorized service technicians should attempt to service TPC equipment. Service performed by any unauthorized technician may result in a voided warranty.

#### Troubleshooting guide

Problem	Cause	Solution
Light does not illuminate	No power to light	Check power
	LED has expired	Replace LED
	Transformer is expired	Replace transformer
Light turns on and off then the light head is moved	Open in line power	check light head to ridge arm connector. Inspect arm wire.
Vertical arm drifts down	Tension needs to be increased in arm	tighten arm tension adjustment
Verticle arm drifts up	Friction arm adjustmnet loose	Tighten friction arm adjustment
Light drifts from left to right	Light post not level	Level unit / light post