

1.0 INTRODUCTION

This installation and instruction manual describes how to install, maintain and operate the Planet Model 'ULED' examination light. Prior to installation carefully read through all the instructions enclosed in this manual. This information is subject to change and applies to Standard ULED only. Variations may apply to custom made fittings.

If there are any concerns or you do not understand, please contact customer service at Planet Lighting.



WARNINGS

Only qualified electricians can install the Planet model 'ULED' light. It is to be direct wired only. Installation performed by unauthorised personnel could result in personal injury and or equipment damage. Under no circumstances should any modifications or adjustments, other than those detailed under section 9.0 Maintenance, be made to the Planet Model ULED.

2.0 PRODUCT INFORMATION

The Planet ULED is a state of the art examination light which utilises cutting edge Solid State Lighting technology combined with the proven Planet Model U spring arm and bracket system. Designed and manufactured in Australia by Planet Lighting (established 1911) an R&D driven, exporting designer and manufacturer with over 6 years experience in the design, manufacture and supply of Solid State Lighting devices worldwide. The Planet ULED provides an improved working environment, significantly reducing on-going maintenance, with low operational costs and offers a "greener" alternative to similar products. The Planet model ULED allows the accurate positioning of the lamp head above any work surface. It is designed to be mounted on a wall or ceiling and be pulled down from above when required, remaining there until re - positioned.

At Planet we take great pride in the design and production of our lights and we are sure you will derive satisfaction from owning and using our products. When installed and maintained in accordance with the instructions contained in this service leaflet, this product will provide many years of trouble free operation.

Should you have any enquiry, comment or special lighting need we would like to hear from you. We back our products with pride, service and a five year warranty.

- 2.1.0 Environmental Considerations
- 2.1.1 Standard Packaging
 - I box containing a complete ULED lamp with Installation and users manual.
- 2.1.2 Transport
 - transport to be carried out by road, while maintaining the following environmental conditions.
 - Temperature: -15/+60 degrees Celsius
 - Humidity : 10/75%
 - Atmospheric pressure(h/Pa) 500/1060
- 2.1.3 Storage
 - The devices packaged must be stored (warehoused) in a dry place and as per the same environmental conditions mentioned above.
- 2.2.0 Disposal and Recycling Information
 - The ULED light has been designed, taking into account what the manufacturing components are made out of. This is to ensure when it reaches its end of life, the disposal method with the lowest/ least negative impact, on human health and the environment is selected. Unlike the sources of traditional light, LED's do not contain mercury, toxic gases, filaments or fragile parts. Due to the fixture being over 95% recyclable and there being no Bulbs/Globe changing during the ULED life of 50,000+ hours your environmental footprint will be significantly reduced.
 - When your ULED light reaches its end of life, contact Planet lighting or our local agents to learn about recycling options. The ULED light must be disposed of properly according to local laws and, regulations.

3.0 PLANNING

Prior to installing the Planet Model 'ULED' Ceiling and Wall mounts the following items should be checked and confirmed.

- 3.1.0 Architectural considerations
- 3.1.1 Ensure appropriate mounting structure behind the wall/ceiling
- 3.1.2 For structural loadings and appox product weights (refer Fig12)
- 3.1.3 To confirm ceiling/wall height measurements at the appropriate nominal recommended height from the floor refer Fig 1 (back page)
- 3.2.0 Electrical considerations
- 3.2.1 The Planet Model 'ULED' wall and ceiling mount are designed to be direct wired only
- 3.2.2 240V AC supply is available at the connection points



PLANET
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Model 'ULED' Spring Balanced Examination Light - Installation & Maintenance Instructions

4.0 INSTALLATION:

The Planet Model ULED arm is designed to be mounted above the immediate work area. Standard mounting fixtures for Planet Model ULED are: Ceiling Mount & Wall Mount (specialised mountings are available on application). In all cases the suggested mounting height (measured at swivel head) is two metres from floor level. (refer Fig 1)

To ensure correct balance of the Model ULED movement the lamp must be mounted with the stem, around which it rotates, vertical at all times.

(refer Fig 1)



WARNING The qualified electrician who is responsible for the installation of the ULED must include an isolation switch (all -pole disconnection) in the fixed wiring of the ULED and a cable tie near the terminal block of the primary (240V) wiring (Phase and Neutral) to secure the cables.

Figures 2 - 4 Refers to wall mount options, Figures 6 - 8 Refers to ceiling mount options, Figures 9 - 11 Refers to maintenance procedures

5.0 WALL MOUNT:



WARNING

Ensure before commencing the installation, that the MAINS power circuit is isolated (off).

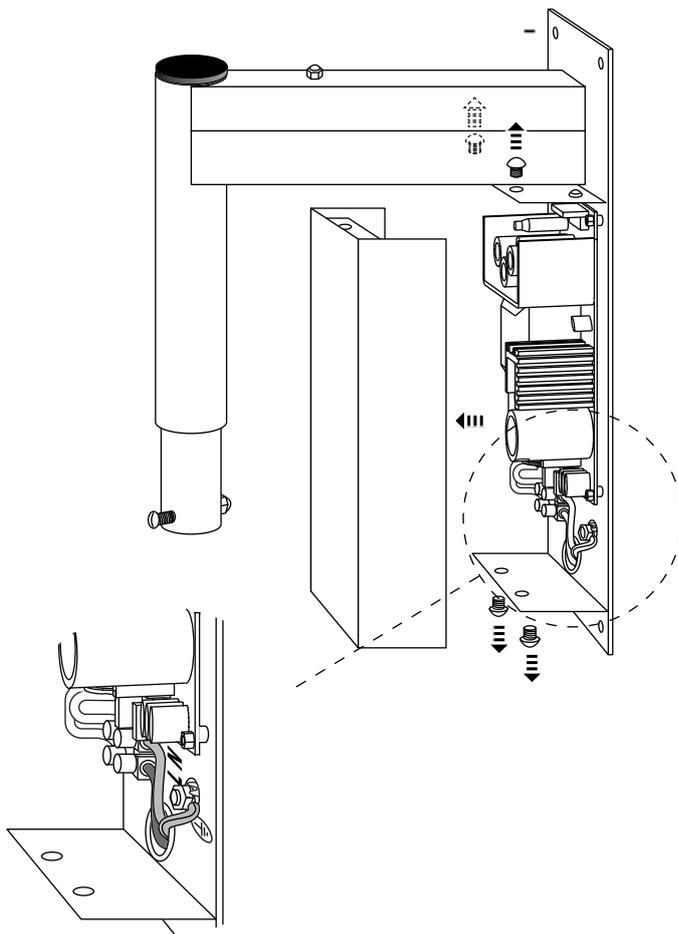
CHECK AND ENSURE THE FOLLOWING BEFORE COMMENCING INSTALLATION:

- You have the appropriate mounting template.
- You have appropriate tools for the job.
- Confirmed mains cable entry is located appropriately.
- The mounting structure is suitable.
- The structural loadings and approx product weights (refer Fig12)
- You have appropriate fixing attachments. e.g. Dyna bolts, large screws

5.1.0 Using appropriate wall template (template 1) mark mounting holes and mains cable entry. Make sure the bottom of the template wall mount is 2055mm from the floor to maintain 2000mm clearance at the bottom of the swivel. (ref Fig 1)

5.2.0 Drill 4 mounting holes as shown on template 1.

Fig: 2



Classification: Non invasive medical device, as per label/s below.



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Voltage: 240v
Input Current: 0.229Arms
Frequency: 50Hz
Classification: Class 1
Model: ULED - Ceiling

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PLANET
LIGHTING

Voltage: 240v
Input Current: 0.229Arms
Frequency: 50Hz
Classification: Class 1
Model: ULED - Wall

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WARNING

Take care to remove any dust during the drilling and make sure not to damage any existing cabling

- 5.4.0 Remove cover from the wall mount (ref Fig 2) ①, feed mains cable through the larger bottom hole ②, place correct wall mount into position and attach to wall using appropriate fixture devices ③
- 5.5.0 Electrical Connections
- 5.5.1 Connect mains cable to appropriate locations on terminal block (ref Fig 2) ④
- 5.5.2 Connect the Earth (yellow/Green) cable to the Earth Lug (ref Fig 2) ⑤

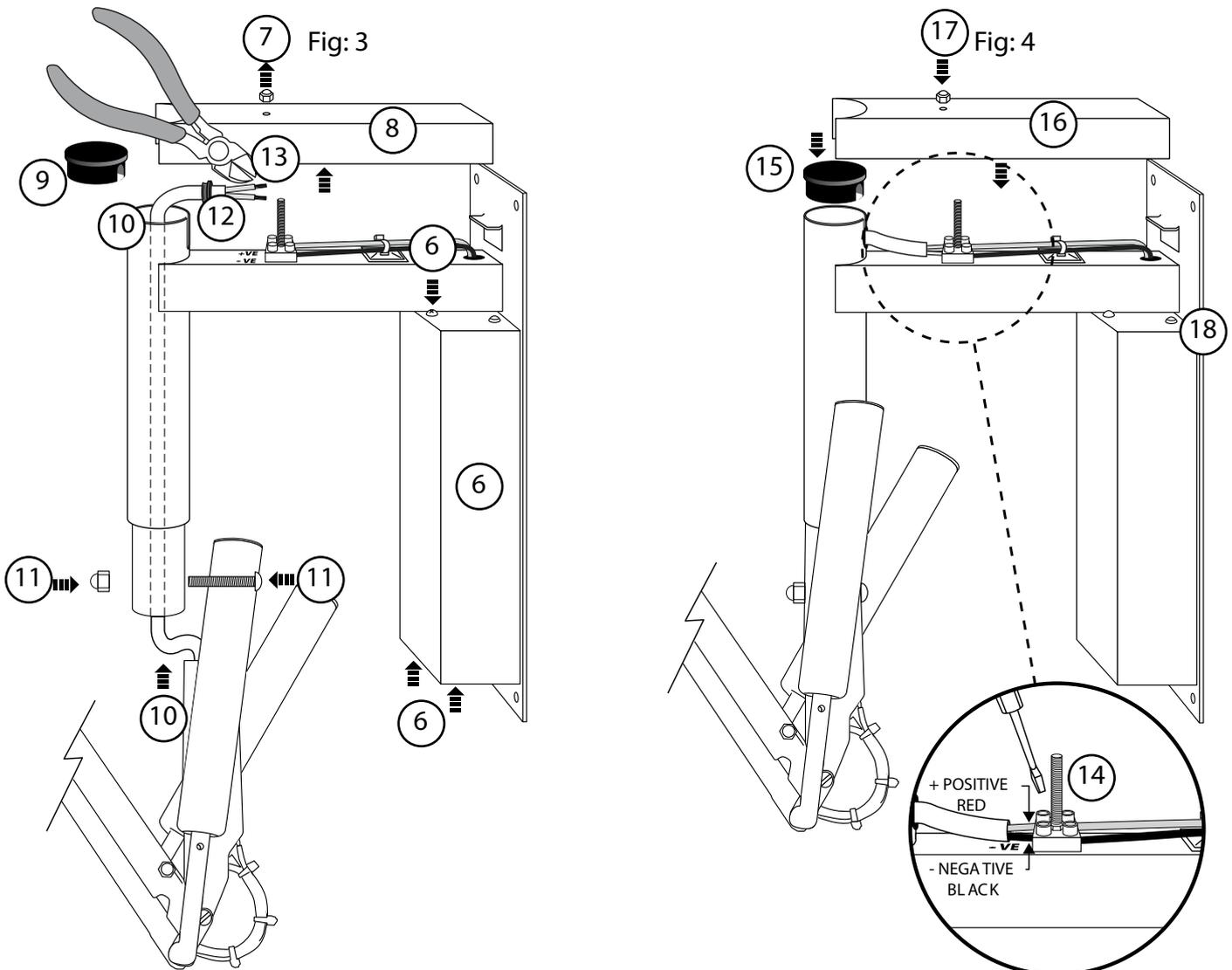
WARNING

Replace cover ensuring the cables do not get caught/pinched and attach with the screws located at the bottom and top ⑥ (ref Fig 3)

- 5.5.3 Remove dome nut ⑦ top cover ⑧ end cap ⑨ (ref Fig 3)
- 5.5.4 Slide (push) cable from the light head through tube and out the top ⑩, attach swivel with bolt and dome nut and tighten ⑪.(ref Fig 3) When attaching the swivel to the bottom spigot ensure the spigot does not slide up into the tube
- 5.5.5 Feed cable through grommet ⑫ and slide into position, trim cable to suitable length ⑬
- 5.5.6 Attach to the appropriate locations on the terminal block.⑭ (ref Fig 4)
- 5.5.7 Replace end cap ⑮ and cover ⑯ and screw nut ⑰ down to lock cover in position. (ref Fig 4)

6.0 FINAL INSPECTION, PLEASE ENSURE

- 6.1.0 The mount is firm and has no movement, and is level (ref Fig1)
- 6.2.0 The light head moves through its full range of movements
- 6.3.0 The assembly of light and mount is clean and free of any marks
- 6.4.0 Energise circuit and test the light fixture for normal operation, that is the green led on the power supply cover is working ⑱ and the switch on the light head is working (ref Fig 10)



7.0 CEILING MOUNT:



WARNING

Ensure that before commencing the installation, the MAINS power circuit is isolated (off)

CHECK AND ENSURE THE FOLLOWING BEFORE COMMENCING INSTALLATION:

- You have the appropriate mounting template
- You have appropriate tools for the job
- Confirm mains cable entry is located appropriately
- The mounting structure is suitable
- The structural loadings and approx product weights (refer Fig12)
- You have appropriate fixing attachments. e.g. Dyna bolts, large screws

7.1.0 Using appropriate CEILING template (template 2) mark mounting holes and mains cable entry

7.2.0 Drill 4 mounting holes



WARNING

Take care to remove any dust during the drilling and make sure not to damage any existing cabling

7.3.0 Remove ceiling cover ① and feed mains cable through entry hole ② and attach mount to ceiling using appropriate fixtures ③ (ref Fig 6)

7.4.0 Remove swivel boss locking screw ④, ceiling boss ⑤, locking screw ⑥ and ceiling cover ① from ceiling mount.

7.5.0 Feed draw wire down tube ⑦ from ceiling plate to bottom of mounting tube ⑦ (This step can be completed prior to attaching to the ceiling mount). Prior to pulling through the power wires from the continuous rotation device, make sure the ceiling cover and swivel boss have been re-attached

7.6.0 Insert continuous rotation device ⑧ into ceiling boss ⑤, align screw holes and insert locking screw ⑥ and tighten.

7.7.0 Feed power wires through top grommet ⑨ (located correctly). Trim and strip wires to appropriate length. (refer 7.9 Electrical connections)

7.8.0 Remove plastic side cover and screw ⑩ from continuous rotation device. Slide (push) cable from the light head through tube ⑪ and out the side cover of the continuous rotation device ⑫. Ensure the grommet ⑬ is located correctly. Trim and strip wires to appropriate length. Attach swivel with bolt and dome nut and tighten ⑭. When attaching the swivel to the bottom spigot ensure the spigot does not slide up into the tube.

7.9.0 Electrical Connections

7.9.1 Connect mains cable on ceiling mount to appropriate locations on terminal block L and N ⑮ (ref Fig 6)

7.9.2 Connect the Earth (yellow/green) cable to the Earth Lug ⑯ (EARTH SYMBOL)

7.9.3 Connect continuous rotation device cables to -VE, +VE ⑰ and Earth Lug ⑯ (EARTH SYMBOL) to ceiling plate ⑱

7.9.4 Connect light head cables (red to red, black to black) to terminal block ⑲ in the continuous rotation device

Thread attaching screw through plastic side cover ⑩, terminal block ⑲ and tighten securely ensuring cables are not caught



WARNING

Replace ceiling cover ensuring the cables do not get caught/pinched and attach with the screw located on the collar ① (ref Fig 6)

8.0 FINAL INSPECTION, PLEASE ENSURE

8.1.0 The ceiling mount is firm and has no movement

8.2.0 The light head moves through its full range of movements

8.3.0 The assembly of light and mount is clean and free of any marks

8.4.0 Energise circuit and test the light fixture for normal operation, that is the green LEDs on the power supply cover ⑳ and continuous rotation device ㉑ are working and the switch on the light head is working.

Fig: 7

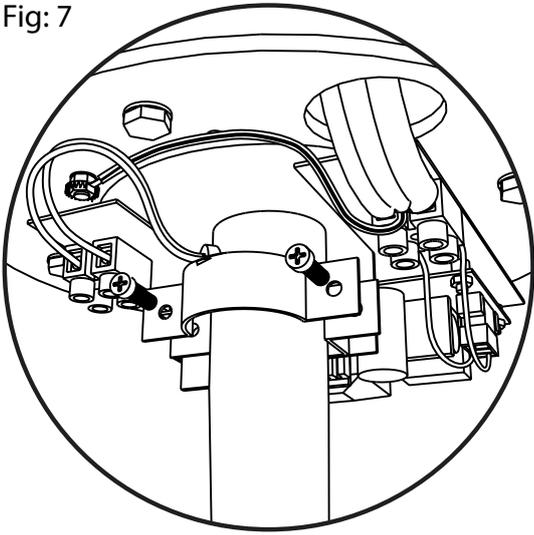
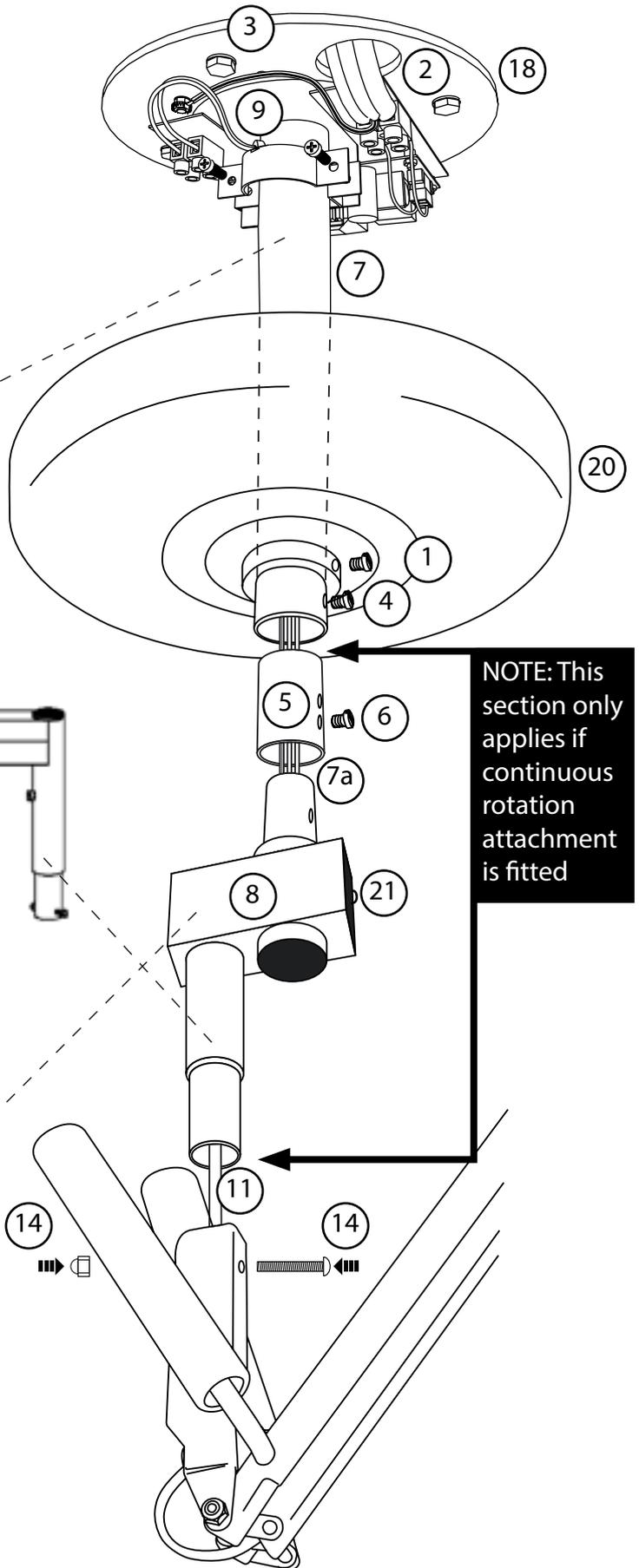


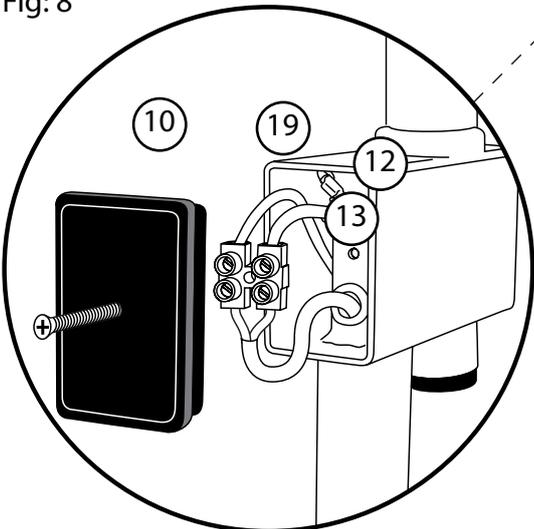
Fig: 6



NOTE: This section only applies if continuous rotation attachment is fitted

UTW - TWIN CEILING MOUNT

Fig: 8





WARNING

Only appropriately qualified personnel should carry out maintenance on Planet light fixtures

9.0 MAINTENANCE:

Planet Lighting recommend that if there is a technical fault with one of our ULED lights, the product is returned to our factory to be repaired. If a qualified technician is available to repair the fixture, circuit diagrams, parts lists, and descriptions will be made available to assist in this process.

The following maintenance procedures performed as required should ensure your Planet Model ULED provides many years of effective service

9.1 Cleaning

Carefully remove any loose deposits with a damp sponge. Use a soft brush (non abrasive) or cloth, and/or a mild household detergent solution to remove dust and other deposits. Do not use steel wool, scrapers, scouring liquids or powders to remove deposits as these permanently scratch the coating surface. Wipe with clean damp sponge to remove detergent.

9.2 Head Removal (refer Fig 10)

In the unlikely event that one or more of the LED's should fail, the light head has been designed to be removed without tools for return to Planet lighting for prompt service. Our LED light head does not contain user serviceable parts.

9.3 Lubrication (refer Fig 9)

To prevent undue stiffness or joint seizure the springs of the Planet Model U have been pre-packed with high quality grease. The pivoting mechanisms at the main elbow joint and the link pin at the swivel head should receive regular light oiling.

9.4 Lock Nut Adjustment (refer Fig 9)

Fine adjustment of the frictional inertia of the lamp movement is provided by tensioning the small lock nut on the link pin at the base of the swivel head. This nut should be tensioned so that the lamp firmly retains its position when adjusted but can be freely re-positioned under the pressure of one finger at the elbow joint. Do not attempt to correct an unbalanced movement by over-tightening this nut. (refer Fig 9)



WARNING UNDER NO CIRCUMSTANCES SHOULD THE SPRING TENSION NUTS (TWO) BE COMPLETELY UNDONE .

(refer Fig 11)

9.5 Spring Tensioning (refer Fig 11)

After extended use the main balance springs of the Model ULED arm may require tension adjustment (generally the spring on your left hand side when facing the lamp). This may be done by carefully prising the plastic cap off the end of the spring tube to permit access to tensioning nuts. Nuts should be tightened in small increments using a 15mm hexagon tube spanner until the lamp assumes correct balance.

Do not over tighten tension springs.

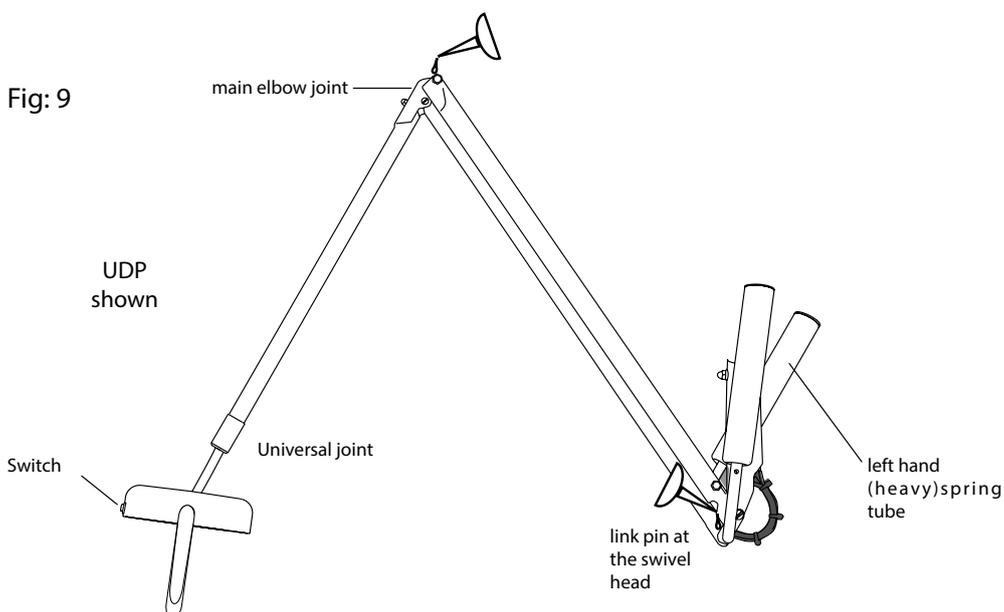


Fig: 10

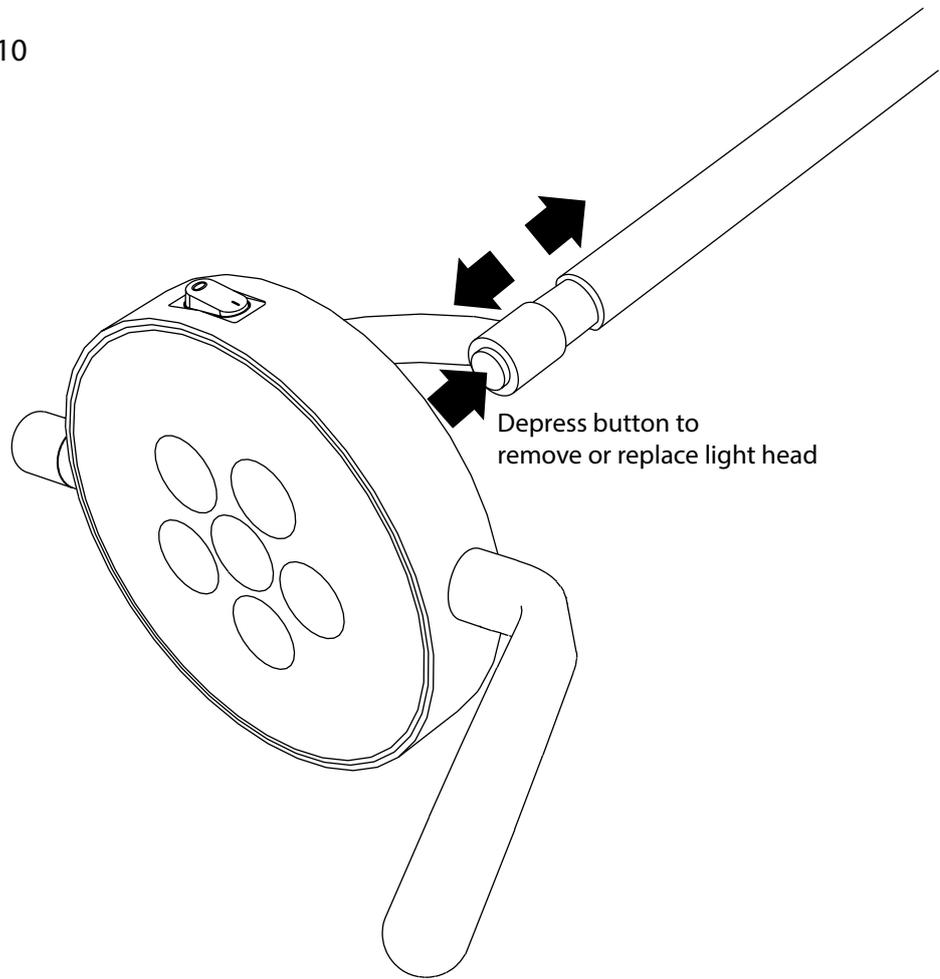
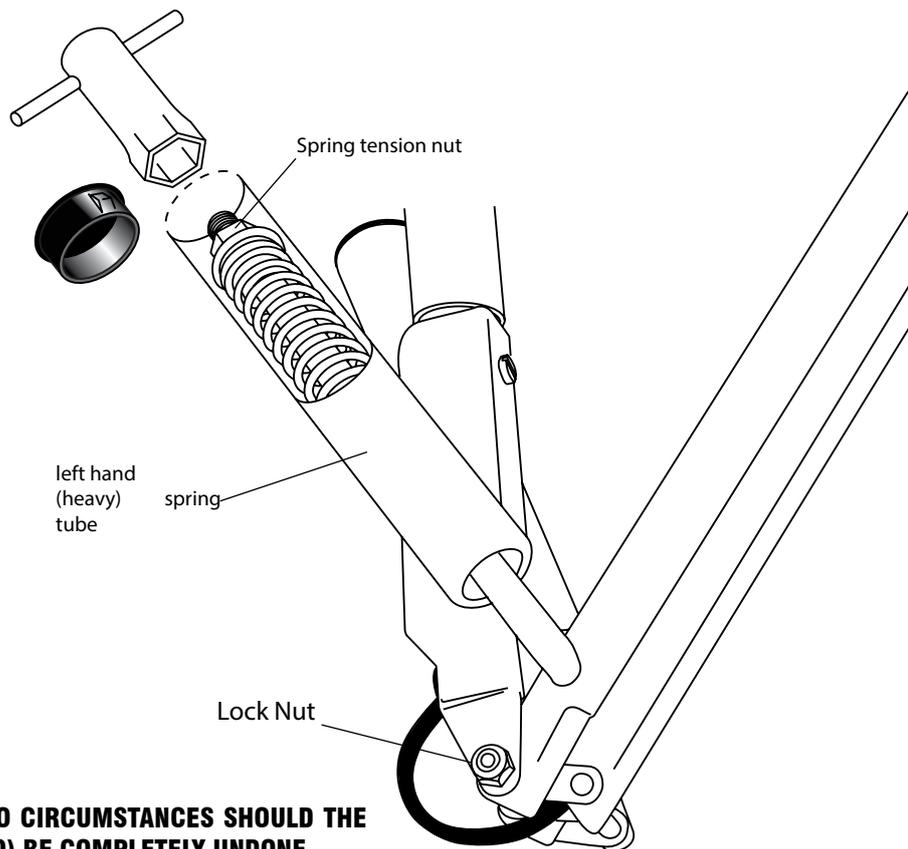


Fig: 11

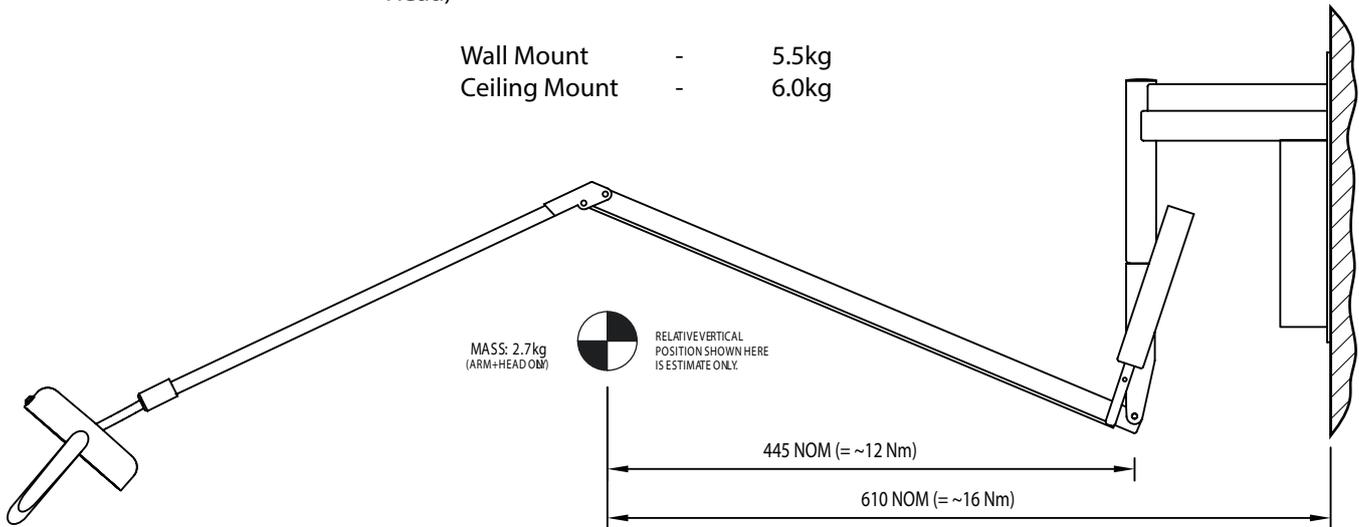


 **WARNING UNDER NO CIRCUMSTANCES SHOULD THE SPRING TENSION NUTS (TWO) BE COMPLETELY UNDONE**

Fig: 12

Static weights of complete fixture (Mount, Arm & Light Head)

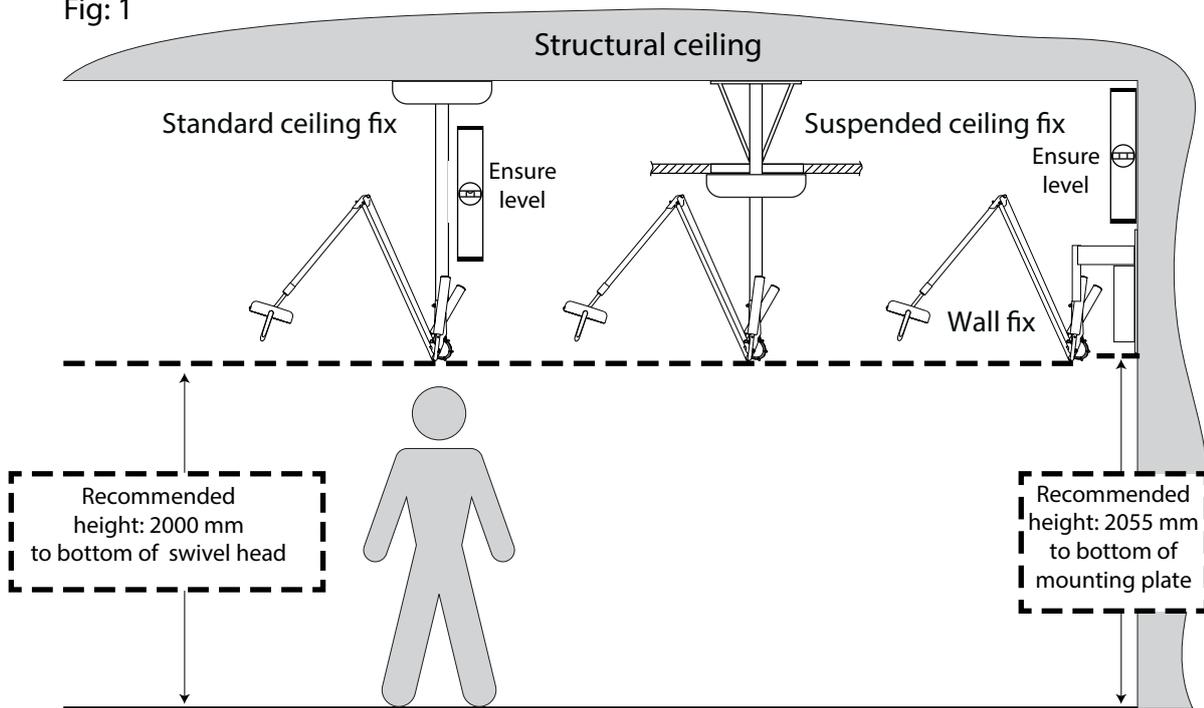
- Wall Mount - 5.5kg
- Ceiling Mount - 6.0kg



Note:

For the purposes of quoting minimum structural requirements of mountings, torque-load of 12 Newton Metres plus lever-arm effect of length of ceiling-mount tube or wall mounting must be accommodated (plus factors of safety and dynamic loads). Vertical dead load (IE No dynamic or external loads such as operators pulling or pushing fitting are included in this value.)

Fig: 1



Customer Service can be contacted on the phone number below Mon - Friday 9 am - 5 pm



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