



## ⚠ WARNING

### Risk of electric shock.

- Do not use in wet locations.
- Use indoors only.
- Turn power off before servicing -- see instructions.
- Properly ground fixture.
- Ensure that no bare wires are exposed outside the electrical connections.

### Bulb may shatter and cause injury when broken

- Do not use excessive force when installing bulb.

### Risk of burn

- Allow bulb to cool before handling.

## INSTALLATION PROCEDURES

- 1) Consult a local licensed electrician or electrical contractor if you are not sure about the installation.
- 2) Ensure that electricity is **TURNED OFF** at the main circuit breaker or fuse box. **DO NOT ATTEMPT TO INSTALL FIXTURE WITH THE POWER ON.**
- 3) Select a suitable dry mounting location (for indoor use only). Make sure the mounting surface is capable of supporting the fixture.
- 4) Remove the lens/diffuser by lightly pressing the front edge while lifting upwards. The lens/diffuser should pop out easily. See Figure 1.
- 5) Remove the bulb by grasping the ends of the bulb and rotating until the bulb becomes loose. Pull straight out from the lamp holder and remove any cardboard inserts present. Be careful not to drop the bulb. See Figure 1.
- 6) Remove the cover/housing by unscrewing the two (2) nuts located behind the bulb. Some models have screws located on the top and bottom of the fixture that hold the cover/housing together.
- 7) Choose a suitable knock-out location from those provided on the fixture. Remove the knock-out with a screw driver.
- 8) Insert the threaded end of the strain relief (provided in the installation kit) into the selected opening on the fixture. Secure the strain relief by tightening the lock nut. The lock nut should be tightened with a tool such as a pair of pliers to ensure the strain relief is properly grounded to the fixture.
- 9) Install the conduit or armored cable to meet electrical codes. Tighten the two screws on the strain relief connector to secure the wires.
- 10) Connect the hot (black) AC supply wire(s) to the hot (black) wire(s) of the fixture. Secure the connection with the wire nuts provided. See Figure 2.
- 11) Connect the white (neutral) AC supply wire(s) to the neutral (white) wire(s) of the fixture. Secure the connection with the wire nuts provided. See Figure 2.
- 12) Connect the ground (green or copper) AC supply wire to the green or copper ground wire of the fixture. Secure the connection with the wire nuts provided. If your electrical system contains no grounding wire, you should consult a qualified electrician before proceeding with the installation. See Figure 2.
- 13) Ensure that no bare wires are exposed after making the electrical connections.
- 14) Arrange the wires inside the fixture and reattach the cover/housing. Tighten the screws or nuts to ensure that all the wires and connections are sealed properly inside the fixture without "pinching" any wires.
- 15) Place the fixture in the location where it is to be mounted and mark the position of the keyholes with a pencil.
- 16) It is recommended that a pilot hole (1/16" for soft wood, 3/32" for hard wood) be drilled in the mounting surface. If the mounting surface requires the use of wall anchors, drill a 1/8" pilot hole. Install the plastic anchors provided in the installation kit.
- 17) Drive the screws provided in the mounting hardware into the mounting surface until approximately 1/8" of space remains under the head of the screw. See Figure 3.
- 18) Align the keyholes in the fixture with the two screws and slide into place. See Figure 4.
- 19) Tighten the screws and install bulb and reinsert lens.
- 20) Turn on the electricity at the circuit breaker or fuse box.

## BULB REPLACEMENT INSTRUCTIONS

See the label on the fixture for replacement bulb type information. Do not replace with any other wastage of fluorescent bulb.

- 1) Turn the fixture off and allow sufficient for bulb to cool before handling.
- 2) Remove the lens/diffuser by lightly pressing the front edge while lifting upwards. The lens/diffuser should pop out easily. See Figure 1.
- 3) Remove the bulb by grasping the ends of the bulb and rotating until the bulb becomes loose. Pull straight out from the lamp holder. Be careful not to drop the bulb. See Figure 1.
- 4) Grasp the replacement bulb in the same manner and reinsert into the lamp socket, and turn tube until it is securely held in place. Do not use excessive force when installing bulb.

### 3 YEAR LIMITED FIXTURE WARRANTY

Jasco Products warrants that the fixture will be free of defects in material and workmanship for three years from date of purchase. This warranty does not apply to the bulb. This fixture warranty is limited to repair or replacement at Jasco's option. Damage caused by modification, abuse, or misuse is not covered. Jasco makes no other warranty express or implied of merchantability or fitness for a particular purpose. In no event shall Jasco be liable for special, incidental or consequential damages. Some states do not allow limitations on how long an implied warranty lasts and/or do not allow the exclusion of consequential damages, so the above limitations may not apply to you. This warranty gives you specific legal rights and you may also have other rights which vary based on your place of residence. To obtain repair or replacement information under the terms of this warranty, return the fixture and proof of purchase along with owner's name and address, postage prepaid to: Jasco Products Company LLC, 10 E. Memorial Road, Oklahoma City, OK 73114.

Figure 1

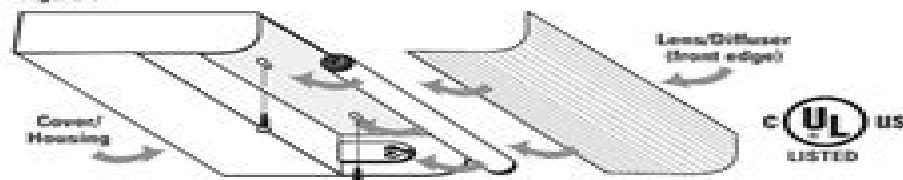


Figure 2

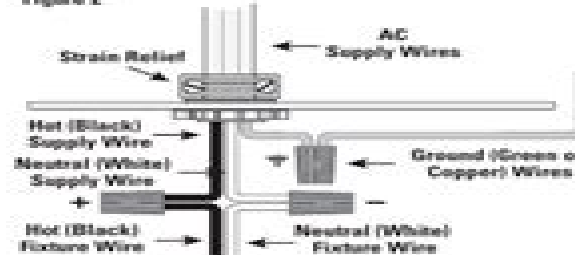


Figure 3



Figure 4



# Fluorescent Lighting Manual 2nd Edition

**Julio Salinas, Jose J. Sanchez-Serrano**



## **Fluorescent Lighting Manual 2nd Edition:**

*The Bookshelf* Wright Field Reference Library, 1947      **Electrical World** , 1947-07      *An Industrial Technical Library for a Tropical Country: Literature Recommendations* United States. International Cooperation Administration. Office of Industrial Resources, 1957      A Guide to Human Factors and Ergonomics, Second Edition Martin Helander, 2005-12-16 Completely revised and updated A Guide to Human Factors and Ergonomics Second Edition presents a comprehensive introduction to the field Building on the foundation of the first edition titled Guide to Ergonomics of Manufacturing the new title reflects the expanded range of coverage and applicability of the techniques you will find in the second edition Each and every chapter contains new material and some have been entirely rewritten Drawing on the author s experience in both teaching and industry the book lays to rest the common myths and misconceptions that surround ergonomics Unlike most ergonomics and human factors books that emphasize the physical this one gives a broad overview of cognitive as well as physical ergonomics Written in an accessible style it presents a systems approach to human factors and ergonomics that leads to complete understanding The author demonstrates how to collect data on users and operators and how to convert the data to good design and offers a practical guide to the design and analysis of systems Design oriented systems oriented and results oriented this text provides the tools needed to solve systems problems and develop adequate design solutions

**Catalogue** Harvard University. Graduate School of Design. Library, 1968      National Electrical Contractor , 1947

**Horticultural Reviews, Volume 43** Jules Janick, 2015-10-12 Horticultural Reviews presents state of the art reviews on topics in horticultural science and technology covering both basic and applied research Topics covered include the horticulture of fruits vegetables nut crops and ornamentals These review articles written by world authorities bridge the gap between the specialized researcher and the broader community of horticultural scientists and teachers      **Arabidopsis Protocols, 2nd Edition** Julio Salinas, Jose J. Sanchez-Serrano, 2008-02-04 For several decades Arabidopsis thaliana has been the organism of choice in the laboratories of many plant geneticists physiologists developmental biologists and biochemists around the world During this time a huge amount of knowledge has been acquired on the biology of this plant species which has resulted in the development of molecular tools that account for much more efficient research The significance that Arabidopsis would attain in biological research may have been difficult to foresee in the 1980s when its use in the laboratory started In the meantime it has become the model plant organism much the same way as Drosophila Caenorhabditis or mouse have for animal systems Today it is difficult to envision research at the cutting edge of plant biology without the use of Arabidopsis Since the first edition of Arabidopsis Protocols appeared new developments have fostered an impressive advance in plant biology that prompted us to prepare Arabidopsis Protocols Second Edition Completion of the Arabidopsis genome sequence offered for the first time the opportunity to have in hand all of the genetic information required for studying plant function In addition the development of whole systems approaches that allow global analysis of gene expression and protein

and metabolite dynamics has encouraged scientists to explore new scenarios that are extending the limits of our knowledge

*Encyclopædia Britannica*, 1964      **Titanium Ebay, 2nd Edition** Skip McGrath, 2009-04-07 How to make it to the online big time Titanium eBay is for everyone who aspires to reach the highest level of success within eBay whether they've been selling for years or whether they're just starting out but have ambitious plans for their business With 60 chapters that leave no stone unturned this is truly the business bible for eBay PowerSellers eBay ended 2007 with over 8.7 billion in gross merchandise sales There are 212 million global registered eBay users operating across 23 international eBay sites twice as many as in 2004 There are approximately 720,000 PowerSellers on eBay who make a living selling merchandise through eBay      *NIOSH Publications Catalog* National Institute for Occupational Safety and Health, 1987 Cumulative catalog of all National Institute for Occupational Safety and Health NIOSH numbered publications health hazard evaluations HHE and technical assistance TA reports contract reports and other educational and training materials      *Building Digest*, 1953

**The Encyclopaedia Britannica**, 1962      *Fundamentals of Light Microscopy and Electronic Imaging* Douglas B. Murphy, Michael W. Davidson, 2012-08-22 Fundamentals of Light Microscopy and Electronic Imaging Second Edition provides a coherent introduction to the principles and applications of the integrated optical microscope system covering both theoretical and practical considerations It expands and updates discussions of multi spectral imaging intensified digital cameras signal colocalization and uses of objectives and offers guidance in the selection of microscopes and electronic cameras as well as appropriate auxiliary optical systems and fluorescent tags The book is divided into three sections covering optical principles in diffraction and image formation basic modes of light microscopy and components of modern electronic imaging systems and image processing operations Each chapter introduces relevant theory followed by descriptions of instrument alignment and image interpretation This revision includes new chapters on live cell imaging measurement of protein dynamics deconvolution microscopy and interference microscopy PowerPoint slides of the figures as well as other supplementary materials for instructors are available at a companion website [www.wiley.com/go/murphy/lightmicroscopy](http://www.wiley.com/go/murphy/lightmicroscopy)

**Encyclopædia Britannica** Walter Yust, 1960      **Sustainable Landscape Construction, Third Edition** Kim Sorvig, J. William Thompson, 2018-02 Basic principles Sustainability in context Principle 1 Keep healthy sites healthy Principle 2 Heal injured soils and sites Principle 3 Favor living flexible materials Principle 4 Respect the waters of life Principle 5 Pave less Principle 6 Consider origin and fate of materials Principle 7 Know the costs of energy over time Principle 8 Celebrate light respect darkness Principle 9 Quietly defend silence Principle 10 Maintain to sustain Principle 11 Demonstrate performance learn from failure Sustaining principles evolving efforts      **Understanding Light Microscopy** Jeremy

Sanderson, 2019-03-04 Introduces readers to the enlightening world of the modern light microscope There have been rapid advances in science and technology over the last decade and the light microscope together with the information that it gives about the image has changed too Yet the fundamental principles of setting up and using a microscope rests upon unchanging

physical principles that have been understood for years This informative practical full colour guide fills the gap between specialised edited texts on detailed research topics and introductory books which concentrate on an optical approach to the light microscope It also provides comprehensive coverage of confocal microscopy which has revolutionised light microscopy over the last few decades Written to help the reader understand set up and use the often very expensive and complex modern research light microscope properly Understanding Light Microscopy keeps mathematical formulae to a minimum containing and explaining them within boxes in the text Chapters provide in depth coverage of basic microscope optics and design ergonomics illumination diffraction and image formation reflected light polarised light and fluorescence microscopy deconvolution TIRF microscopy FRAP super resolution techniques biological and materials specimen preparation and more Gives a didactic introduction to the light microscope Encourages readers to use advanced fluorescence and confocal microscopes within a research institute or core microscopy facility Features full colour illustrations and workable practical protocols Understanding Light Microscopy is intended for any scientist who wishes to understand and use a modern light microscope It is also ideal as supporting material for a formal taught course or for individual students to learn the key aspects of light microscopy through their own study      **The Science of Imaging** Graham Saxby, 2016-04-19 Edited and expanded to keep pace with the digital revolution the new edition of this highly popular and critically acclaimed work provides a comprehensive exploration of imaging science Brilliantly written and extensively illustrated The Science of Imaging An Introduction Second Edition covers the fundamental laws of physics as well as the cut      Technic international ,1955      **Architectural Record** ,1961-10

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