**FCF1100 Series** (Mounting Knuckle to J-Box JB) - **INSTALLATION INSTRUCTIONS**

**Includes:** FCF1105, FCF1106 and FCF1109 only.

**GENERAL:**
1. Before starting the installation, make sure all electricity has been turned off and electrical breaker has been locked out and tagged out.
2. To ensure the success of the installation, be sure to read these instructions and review the diagrams thoroughly before beginning.
3. All electrical connections must be in accordance with local codes, ordinances, or the National Electrical Code.

**NOTE:** The important safeguards and instructions appearing in this manual are not meant to cover all possible conditions and situations that may occur.

**INSTALLATION INSTRUCTIONS:**

**NOTE:** LED lamping is integral and NOT intended for general servicing.

1) Thread the fixture into the j-box cover. 
   
   **Seal using Teflon tape or RTV sealant**

2) Lock fixture into swivel position **using lock nut provided.**

3) Connect wires to incoming power. 
   Black = Line, White = neutral, Green = ground, 
   0-10V Dimming option: Red = + dimming, Blue = - dimming

4) Reattach j-box cover, gasket and fixture to the j-box.

5) Apply power to fixture and test for proper operation.

6) Adjust angle of fixture for best illumination. Tighten 7/32 hex screws (on adjustable knuckle to lock in position.

7) See other pages for accessory and mounting directions.

**Note:** These instructions do not cover all details or variations in equipment nor do they provide for every possible situation during installation.
**FCF1100 Series (Yoke Y to Surface, Whip to J-Box) - INSTALLATION INSTRUCTIONS**

CAUTION: BEFORE CONNECTING THE FIXTURE TO A POWER SUPPLY, MAKE SURE THE POWER IS SWITCHED OFF.

**Includes:** FCF1105, FCF1106 and FCF1109 only.

**GENERAL:**
1. Before starting the installation, make sure all electricity has been turned off and electrical breaker has been locked out and tagged out.
2. To ensure the success of the installation, be sure to read these instructions and review the diagrams thoroughly before beginning.
3. All electrical connections must be in accordance with local codes, ordinances, or the National Electrical Code.

**NOTE:** The important safeguards and instructions appearing in this manual are not meant to cover all possible conditions and situations that may occur.

**INSTALLATION INSTRUCTIONS:**

**NOTE:** LED lamping is integral and NOT intended for general servicing.

1) Determine location and orientation of fixture on mounting surface. Fixture must be within 12” of j-box. NOTICE: Fixture can only be adjusted on one axis after mounting.

2) Mark two outer mounting holes thru the yoke.

3) Drill and insert appropriate anchors for surface material and fixture weight. ¼” x 20 bolts recommended. (provided by others) Using bolts and washers, attach fixture firmly to the mounting surface.

4) Feed cord thru cord grip and cover (provided by others)

5) Connect wires to incoming power. Black = Line, White = neutral, Green = ground, 0-10V Dimming option: Red = + dimming, Blue = - dimming

6) Reattach j-box cover and gasket to the j-box.

See other pages for accessory and mounting directions.

**DETAILED ILLUSTRATION**

**Note:** These instructions do not cover all details or variations in equipment nor do they provide for every possible situation during installation.
Includes: FCF1105, FCF1106 and FCF1109 only.

GENERAL:
1. Before starting the installation, make sure all electricity has been turned off and electrical breaker has been locked out and tagged out.
2. To ensure the success of the installation, be sure to read these instructions and review the diagrams thoroughly before beginning.
3. All electrical connections must be in accordance with local codes, ordinances, or the National Electrical Code.

NOTE: The important safeguards and instructions appearing in this manual are not meant to cover all possible conditions and situations that may occur.

INSTALLATION INSTRUCTIONS:
NOTE: LED lamping is integral and NOT intended for general servicing.

1) Unscrew side screw (7/32 hex) on knuckle and remove cover. Remove threaded insert.

2) Thread cord thru stake threaded insert. Install stake threaded insert in same position.

3) Feed cord thru stake and thread stake onto new insert.

4) Feed cords thru cord grip in j-box cover. Make wire connections within a water proof j-box (provided by others). Connect wires to incoming power. Black = Line, White = neutral, Green = ground,

5) 0-10V Dimming option: Red = + dimming, Blue = - dimming

6) Test fixture to make sure fixture is working properly.

7) Aim fixture in desired direction. Tighten knuckle adjustment screw (7/32 hex) when properly aimed.

Spike installation on a yoke base is not available

Note: These instructions do not cover all details or variations in equipment nor do they provide for every possible situation during installation.
FCF1100 Series (Heavy Duty Ground Stake HGS) - INSTALLATION INSTRUCTIONS

CAUTION: BEFORE CONNECTING THE FIXTURE TO A POWER SUPPLY, MAKE SURE THE POWER IS SWITCHED OFF.

Includes: FCF1105, FCF1106 and FCF1109 only.

GENERAL:
1. Before starting the installation, make sure all electricity has been turned off and electrical breaker has been locked out and tagged out.
2. To ensure the success of the installation, be sure to read these instructions and review the diagrams thoroughly before beginning.
3. All electrical connections must be in accordance with local codes, ordinances, or the National Electrical Code.
4. This product must be installed in accordance with national and local electrical and construction codes by a person familiar with the construction and operation of the product and the hazards involved. Failure to comply with the following instructions may result in injury or death.

NOTE: The important safeguards and instructions appearing in this document are not meant to cover all possible conditions, equipment and situations that may occur.

WARNING:
• Disconnect power before installing or servicing to avoid electrical shock.
• Do not exceed fixture specified voltage.
• Do not use if fixture, parts or connectors are damaged.
• Unauthorized field repair will void warranty.
• Retain all gaskets and hardware for reuse.

NOTE: LED lamping is integral and NOT intended for general servicing.

Note: These instructions do not cover all details or variations in equipment nor do they provide for every possible situation during installation.

INSTALLATION INSTRUCTIONS:
1) Unscrew side screw on knuckle and remove cover. Remove threaded insert.
2) Remove wiring compartment from top of stake assembly by loosening four screws.
3) Remove threaded plug from top hole.
4) Remove bottom round wiring cover, two screws.
5) Determine if conduit will feed from beneath stake or from side holes.
6) Feed water-tight conduit or burial cord through stake tube if feeding from bottom.
7) If using conduit, attach ½” water-tight conduit connector (supplied by others) to round wiring cover or side of wiring compartment. If using cord, attach with water tight cord grip.
8) Feed wires from fixture through the top hole of the wiring compartment and thread fixture in place. Seal threads with silicone, water-proof liquid thread lock, or Teflon tape.
9) Make wiring connections. Black = Hot, White = Neutral, Green = Ground (use water-proof wire connectors supplied by others) and manage wires and connections into wiring compartment.
10) Replace cover with gasket and two screws. Tighten screws even and snug. Overtightening may strip screw threads.
11) Dig a hole where stake will be installed. Side feed - 10” dia. x 8” deep. Bottom feed, 10” dia. x 24”
12) Test fixture to make sure fixture is working properly. Turn off while burying stake.
13) Drive or bury stake in ground. Top of stake should be 4” above ground.
14) Aim fixture in desired direction. Tighten knuckle adjustment screw when properly aimed.
FCF1100 Series (Cantilever Arm CAX) - INSTALLATION INSTRUCTIONS

CAUTION: BEFORE CONNECTING THE FIXTURE TO A POWER SUPPLY, MAKE SURE THE POWER IS SWITCHED OFF.

Includes: FCF1105, FCF1106 and FCF1109 only.

GENERAL:
1. Before starting the installation, make sure all electricity has been turned off and electrical breaker has been locked out and tagged out.
2. To ensure the success of the installation, be sure to read these instructions and review the diagrams thoroughly before beginning.
3. All electrical connections must be in accordance with local codes, ordinances, or the National Electrical Code.
4. This product must be installed in accordance with national and local electrical and construction codes by a person familiar with the construction and operation of the product and the hazards involved. Failure to comply with the following instructions may result in injury or death.

NOTE: The important safeguards and instructions appearing in this document are not meant to cover all possible conditions, equipment and situations that may occur.

WARNING:
• Disconnect power before installing or servicing to avoid electrical shock.
• Do not exceed fixture specified voltage.
• Do not use if fixture, parts or connectors are damaged.
• Unauthorized field repair will void warranty.
• Retain all gaskets and hardware for reuse.

NOTE: LED lamping is integral and NOT intended for general servicing.

Note: These instructions do not cover all details or variations in equipment nor do they provide for every possible situation during installation.

INSTALLATION INSTRUCTIONS:
1) Remove Knuckle Connector from Fixture and screw the Connector into the threaded Adapter Plate.
2) Run Fixture wiring thru Connector and Adapter Plate and reattach Connector to Fixture Knuckle.
3) Thread wiring through the Arm and attach Adapter Plate with Fixture assembly to Cantilever Arm using supplied long bolts.
4) Run wiring into the Mounting Plate and attach the Cantilever Arm to the Mounting Plate with nuts on the end of long bolts.
5) Make waterproof connections with wires ensuring to follow all NEC and local code requirements.
6) Attach Mounting Plate to surface. Outer hole pattern shown to the right must be drilled into surface.
7) Apply power to fixture and test for proper operation.
8) Adjust angle of fixture for best illumination. Tighten hex screw on adjustable knuckle to lock in position.

NOTE: See other pages for accessory and mounting directions.

See other pages for accessory and mounting directions.
**Installation Instructions:**

1. Before starting the installation, make sure all electricity has been turned off and electrical breaker has been locked out and tagged out.
2. To ensure the success of the installation, be sure to read these instructions and review the diagrams thoroughly before beginning.
3. All electrical connections must be in accordance with local codes, ordinances, or the National Electrical Code.
4. This product must be installed in accordance with national and local electrical and construction codes by a person familiar with the construction and operation of the product and the hazards involved. Failure to comply with the following instructions may result in injury or death.

**Note:** The important safeguards and instructions appearing in this document are not meant to cover all possible conditions, equipment and situations that may occur.

**Warning:**
- Disconnect power before installing or servicing to avoid electrical shock.
- Do not exceed fixture specified voltage.
- Do not use if fixture, parts or connectors are damaged.
- Unauthorized field repair will void warranty.
- Retain all gaskets and hardware for reuse.

**Note:** LED lamping is integral and NOT intended for general servicing.

*Note:* These instructions do not cover all details or variations in equipment nor do they provide for every possible situation during installation.

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**General:**

Includes: FCF1105, FCF1106 and FCF1109 only.

**Detailed Illustration**

Direct Pole Mount Arm is for mounting to a Round Pole.

**Dimensions:**

- 3 x Ø 0.257 Ø 0.375
- 5/16-18 UNC Ø 0.062
- 1/2-14 NPS

**Notes:**

1. All parts to be deburred and degreased/clean of oil and grease.
2. All parts to be adequately packaged.

**See other pages for accessory and mounting directions.**

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**FCF1100 Series (Direct Round Pole Mount Arm DA) - Installation Instructions**

CAUTION: BEFORE CONNECTING THE FIXTURE TO A POWER SUPPLY, MAKE SURE THE POWER IS SWITCHED OFF.

Includes: FCF1105, FCF1106 and FCF1109 only.
**GENERAL:**
1. Before starting the installation, make sure all electricity has been turned off and electrical breaker has been locked out and tagged out.
2. To ensure the success of the installation, be sure to read these instructions and review the diagrams thoroughly before beginning.
3. All electrical connections must be in accordance with local codes, ordinances, or the National Electrical Code.
4. This product must be installed in accordance with national and local electrical and construction codes by a person familiar with the construction and operation of the product and the hazards involved. Failure to comply with the following instructions may result in injury or death.

**NOTE:** The important safeguards and instructions appearing in this document are not meant to cover all possible conditions, equipment and situations that may occur.

**WARNING:**
- Disconnect power before installing or servicing to avoid electrical shock.
- Do not exceed fixture specified voltage.
- Do not use if fixture, parts or connectors are damaged.
- Unauthorized field repair will void warranty.
- Retain all gaskets and hardware for reuse.

**NOTE:** LED lamping is integral and NOT intended for general servicing.

**Note:** These instructions do not cover all details or variations in equipment nor do they provide for every possible situation during installation.
**GENERAL:**
1. Before starting the installation, make sure all electricity has been turned off and electrical breaker has been locked out and tagged out.
2. To ensure the success of the installation, be sure to read these instructions and review the diagrams thoroughly before beginning.
3. All electrical connections must be in accordance with local codes, ordinances, or the National Electrical Code.
4. This product must be installed in accordance with national and local electrical and construction codes by a person familiar with the construction and operation of the product and the hazards involved. Failure to comply with the following instructions may result in injury or death.

**NOTE:** The important safeguards and instructions appearing in this document are not meant to cover all possible conditions, equipment and situations that may occur.

**WARNING:**
- Disconnect power before installing or servicing to avoid electrical shock.
- Do not exceed fixture specified voltage.
- Do not use if fixture, parts or connectors are damaged.
- Unauthorized field repair will void warranty.
- Retain all gaskets and hardware for reuse.

**NOTE:** LED lamping is integral and NOT intended for general servicing.

**Note:** These instructions do not cover all details or variations in equipment nor do they provide for every possible situation during installation.

**INSTALLATION INSTRUCTIONS:**

**Note:** The fixture is attached to the Surface Base option.

1) Position fixture on mounting surface, feed 4’ cord from bottom of SB to j-box area.
2) Mark for mounting hole positions, 10-32 fastener with anchors (supplied by others).
3) BCD is 7.19” diameter for the bolt pattern, 90 degrees between fasteners.  **Fig. 1**
4) Feed 4’ cord into weather proof j-box using water tight cord grip.
5) Make water proof connections with wires ensuring to follow all NEC and local code requirements. Connect wires to incoming power. Black = Line, White = neutral, Green = ground, Purple = 0-10V(+), Gray = 0-10V(-)
6) Apply power to fixture and test for proper operation.
7) Adjust angle of fixture for best illumination. Tighten hex screw on adjustable knuckle to lock in position.  **Fig. 2**

See other pages for accessory and mounting directions.
FC1100 Series (Tree Mount TM) - INSTALLATION INSTRUCTIONS

Includes: FCF1105, FCF1106 and FCF1109.

GENERAL:
1. Before starting the installation, make sure all electricity has been turned off and electrical breaker has been locked out and tagged out.
2. To ensure the success of the installation, be sure to read these instructions and review the diagrams thoroughly before beginning.
3. All electrical connections must be in accordance with local codes, ordinances, or the National Electrical Code.
4. This product must be installed in accordance with national and local electrical and construction codes by a person familiar with the construction and operation of the product and the hazards involved. Failure to comply with the following instructions may result in injury or death.

NOTE: The important safeguards and instructions appearing in this document are not meant to cover all possible conditions, equipment and situations that may occur.

WARNING:
• Disconnect power before installing or servicing to avoid electrical shock.
• Do not exceed fixture specified voltage.
• Do not use if fixture, parts or connectors are damaged.
• Unauthorized field repair will void warranty.
• Retain all gaskets and hardware for reuse.

NOTE: LED lamping is integral and NOT intended for general servicing.

Note: These instructions do not cover all details or variations in equipment nor do they provide for every possible situation during installation.

See other pages for accessory and mounting directions.

INSTALLATION INSTRUCTIONS:
1) Determine height position on tree and run NEC code approved conduit or other electrical supply type up tree.
2) If Cleat & J-box need to be assembled see Fig 1.
3) Attach electrical supply to J-box assembly using 1/2” NPT opening at either end of J-box.
3) Pull Strap tight against tree. Strap and Buckle parts Fig 2.
4) Make water proof connections in J-box with wires ensuring to follow all NEC and local code requirements. Connect wires to incoming power. Black = Line, White = neutral, Green = ground, Purple = 0-10V(+), Gray = 0-10V(-) Fig 3
4) Attach fixture to J-box cover and attach cover to J-box. Ensure proper seal to guard against water intake. Fig 4
6) Apply power to fixture and test for proper operation.
7) Adjust angle of fixture for best illumination. Tighten hex screw on adjustable knuckle to lock in position.

Fig 1. Cleat and J-box Assembly

Fig 2. Strap and Buckle Parts

Fig 3. Wire Connections

Fig 4. Use lock nut to secure fixture to J-box cover and screws to attach cover to the J-box assembly.