

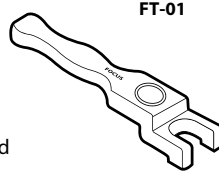


# INSTALLATION INSTRUCTIONS FOR ALL 12 VOLT DL SERIES DIRECTIONAL LIGHT FIXTURES

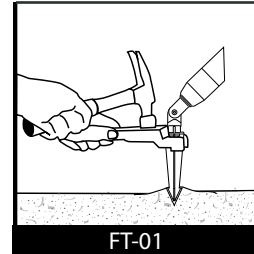
INSPECTED BY:

1. Thread mounting device (FA-03) onto base of fixture. If using **FA-03-LG** or **FA-04**, press into ground and connect to main cable. We recommend using our **FA-05 Quick Connector**. If using **FA-01**, make sure the base PVC is free of dirt to allow the inner tube adjustment as needed. A set screw is provided to set desired height. If using **FA-25**, you must dig a 6"-8" diameter hole, 10"-14" deep. Loop main cable to stake or run fixture wire out of bottom to main cable. Make connection with **FA-05** then back fill hole and wiring. If using **FA-22, -24 or -24-LG** canopies, secure with appropriate screws for mounting surface.
2. To adjust fixture aiming angle, loosen swivel screw with #2 Phillips screwdriver. DO NOT remove screw completely. Hold fixture at selected angle and tighten swivel screw firmly.
3. Install lamp; refer to section below. It is recommended to lubricate lamp screw shell (not lamp contact) with dielectric or lithium grease for ease of service and future maintenance.
4. Turn on power supply to the fixture and check for proper connection and operation.

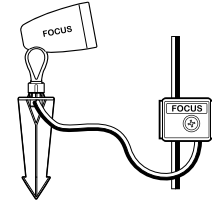
**NOTE:** All mounting stakes can be pressed or hammered into the ground with a standard hammer or rubber mallet. We recommend our Focus **FT-01 stake installation tool**. Always leave the top 1" section of the stake above ground to help isolate the metal from potentially corrosive soils. Fixture wire (18/2 or 16/2) should be buried underground to prevent detachment and to have a cleaner look. For a more permanent mount, you can set the stake in concrete or use our **FA-25 Commercial mounting pedestal**.



FT-01



FT-01  
Stake Installation Tool



FA-05  
QUICK CONNECTOR  
12/2, 10/2, 8/2

If using **FA-05 Quick Connector power must be on**

## LAMP INSTALLATION / REPLACEMENT

### Turn off power before servicing fixtures.

To re-lamp **DL-02**, remove 2 Phillips head screws from lens cap with #2 Phillips screwdriver. Carefully pull off lens cap and gasket. Leave metal retaining ring inside body. Pull MR16 lamp from socket. Insert/press new MR16 into socket. Assemble lens cap & gasket on body, aligning the locator pin on cap with locator hole on body. Make sure gasket seats between body & cap before tightening screws. This will ensure a weatherproof seal.

To re-lamp **DL-03**, rotate retaining ring to align 3 notches with 3 pins & remove, releasing the lamp. We recommend using the FT-02, Lamp Installation and Removal tool, to easily remove the lamp. Disconnect terminal connectors from back of PAR36 bulb. Reverse procedure to install new PAR36 lamp. After replacing retaining ring make sure 4th (small notch) is at bottom of fixture to allow water to drain.

To re-lamp **DL-04 & DL-10**, remove the top 2 Phillips head screws on the left end plate with #2 Phillips screwdriver & loosen bottom screw but do not remove it. Rotate end plate down. Slide lens out. For S-8, T-3, & T-4 S.C. or D.C. lamps press and rotate counter clockwise to release lamp. Reverse procedure to install new lamp. For Bi-Pin halogen, pull light bulb away from socket to release and insert new lamp with pins aligned with socket. Insert lens, rotate end plate back into position, and replace and tighten screws.

To re-lamp **DL-06**, hold fixture by base and pull lens cap from body. Install ALR12, ALR18, AR70 or MR16 lamp. Press lens cap back onto body.

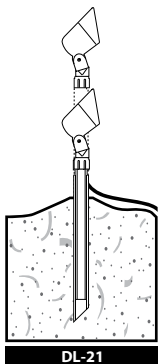
To re-lamp **DL-07, 08, 09 & 12**, support fixture head with hand and remove the 2 Phillips head screws that attach the clear lens with #2 Phillips screwdriver. For S-8, T-3, & T-4 S.C. lamps press and rotate counter clockwise to release lamp. Reverse procedure to install new lamp. For Bi-Pin halogen, pull light bulb away from socket to release and insert new lamp with pins aligned with socket. Make sure socket is pushed to the back of the fixture so lamp does not come in contact with the lens.

To re-lamp **DL-15 & DL-40**, remove 2 Phillips head screws from lens cap with #2 Phillips screwdriver. Carefully remove lens cap and gasket. For S-8, T-3, & T-4 S.C. or D.C. lamps press and rotate counter clockwise to release lamp. Reverse procedure to install new lamp. For Bi-Pin halogen, pull light bulb away from socket to release and insert new lamp with pins aligned with socket. Make sure gasket is properly inserted in lens cap and assemble lens cap/gasket on body. Make sure gasket seats between body & cap before tightening screws. This will ensure a weatherproof seal.

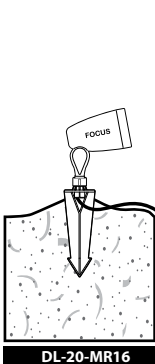
To re-lamp **DL-13, 14, 17, 20, 21, 22 & 23**, loosen thumb screw on bottom of cap. Hold body and cap with each hand. Rotate and pull to separate. For S-8, T-3, & T-4 S.C. lamps press and rotate counter clockwise to release lamp. Reverse procedure to install new lamp. For MR16 Bi-Pin, pull light bulb away from socket to release and insert new MR16 lamp with pins aligned with socket. Re-install cap onto body by rotating cap in a circular motion while sliding cap into the body. **DO NOT** push cap straight into body to prevent O-ring from slipping out of its groove, (DL-13 does not have O-ring and installs over the body.) Tighten thumb screw when assembled

### IMPORTANT SAFETY INSTRUCTIONS TO REDUCE THE RISK OF FIRE AND INJURY TO PERSONS:

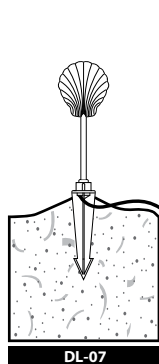
1. Lamp gets hot quickly; turn off, unplug/disconnect and allow to cool down before replacing the light bulb.
2. **DO NOT** touch hot lens, guard or enclosure.
3. **DO NOT** look into lamp when on.
4. Keep lamp away from materials that may burn.
5. Use only with wattage/lamp marked on fixture warning and instructions.
6. Use the right light bulb base with the right socket.
7. **DO NOT** touch lamp at anytime. Use a lint-free cloth when handling the Halogen light bulbs as oil from skin may damage lamp and shorten lamp life.
8. **DO NOT** operate fixture with missing or damaged shield or lens.



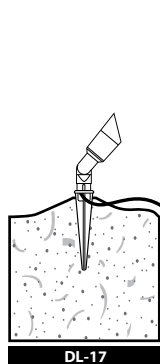
DL-21  
OPTIONAL  
TELESCOPIC  
MOUNTING DEVICE  
(FA-01)



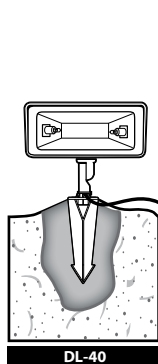
DL-20-MR16  
OPTIONAL  
FOR ALL FIXTURES  
MOUNTING DEVICE  
(FA-03-LG)



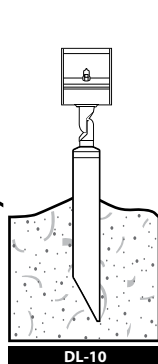
DL-07  
STANDARD  
FOR ALL FIXTURES  
MOUNTING DEVICE  
(FA-03)



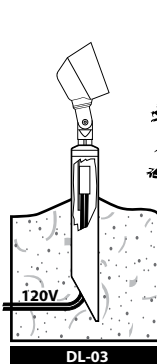
DL-17  
OPTIONAL  
ALUMINUM  
MOUNTING DEVICE  
(FA-04)



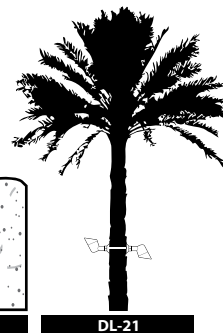
DL-40  
OPTIONAL  
CONCRETE  
MOUNTING DEVICE  
ANY STAKE



DL-10  
OPTIONAL  
COMMERCIAL  
MOUNTING DEVICE  
(FA-25)



DL-03  
OPTIONAL  
COMMERCIAL  
MOUNTING DEVICE  
(FA-26 75) 120V



DL-21  
OPTIONAL  
TREE STRAP  
MOUNTING DEVICE  
(FA-24-TREE)

### Mounting Canopies

