INSTALLATION INSTRUCTIONS | VC FM or LSM/HSM Series: Vintage RLM Flush or Stem Mount LED Luminaires

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

Note: Before attempting installation please refer to your local electrical code.
Refer to product label markings for environmental location (indoor and/or outdoor use).

IMPORTANT SAFETY INSTRUCTIONS:

- Read all the instructions before installation. **SAVE THESE INSTRUCTIONS FOR LATER USE.**
- Product should be installed by a Qualified Electrician.
- All electrical connections must be in accordance with local and National Electrical Code (NEC) standards. If you are unfamiliar with proper electrical wiring connections, obtain the services of a qualified electrician.
- Before starting the installation, make sure all electricity has been turned off and electrical breaker has been locked out and tagged out. Turning the power off at the light switch is not sufficient to prevent electrical shock.
- Product must be grounded to avoid potential electric shock and any other potential hazards.
- Product must be mounted in locations and at heights and in a manner consistent with its intended use, and in compliance with National Electrical Code and local codes. Use of accessory equipment is not recommended.
- Do not mount near gas or electric heaters.
- Equipment should be mounted in locations and at heights where it will not readily be subject to tampering by unauthorized personnel.
- **WARNING: RISK OF SHOCK**
  – Turn off the power at fuse or circuit breaker box before installation or maintenance work.
  – Wear rubber soled shoes and work on a sturdy wooden or non-conductive ladder.
  – Ground the fixture to avoid potential electric shocks and to ensure reliable starting.
  – Double check all connections, making sure they are tight and correct.
- **WARNING: RISK OF FIRE**
  – Most dwellings built before 1985 have supply wire rated at 60°C
  – Supply conductors (power wires) connecting the fixture must be rated at minimum of 90°C
  – Consult a qualified electrician before installation
- Installing contrary to instructions may cause unsafe conditions.
- If the product has any visible damage do not install it.
- To avoid hazards to children, account for all parts and properly dispose of all packing materials.
- Call the Technical Support department at ConTech Lighting with any installation questions: 847.559.5500.

SUPPLY LIST

PARTS LIST:
- Shade and Light Engine Assembly
- Driver Compartment with Driver
- Driver Compartment Cover
- 6, 12, 24 or 36 Inch Stem
- 1/8 Inch Allen Wrench/Hex Key (FM and LSM Series only)

TOOLS REQUIRED:
- Adjustable Pliers
- Phillips Screwdriver

OPTIONAL SUPPLIES:
- Two (2) 1/4 Inch Lag Screws
- 1/2 Inch Trade Size Male Conduit Connector
- For Outdoor Applications:
  RTV Sealant
  Teflon™ Tape

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DETERMINE ELECTRICAL SUPPLY CONNECTION

- Flush Mounted Junction Box
- Exposed EMT (Electric Metallic Tube) Conduit
- Rigid or IMC (Intermediate Metal Conduit)
- Daisy Chain

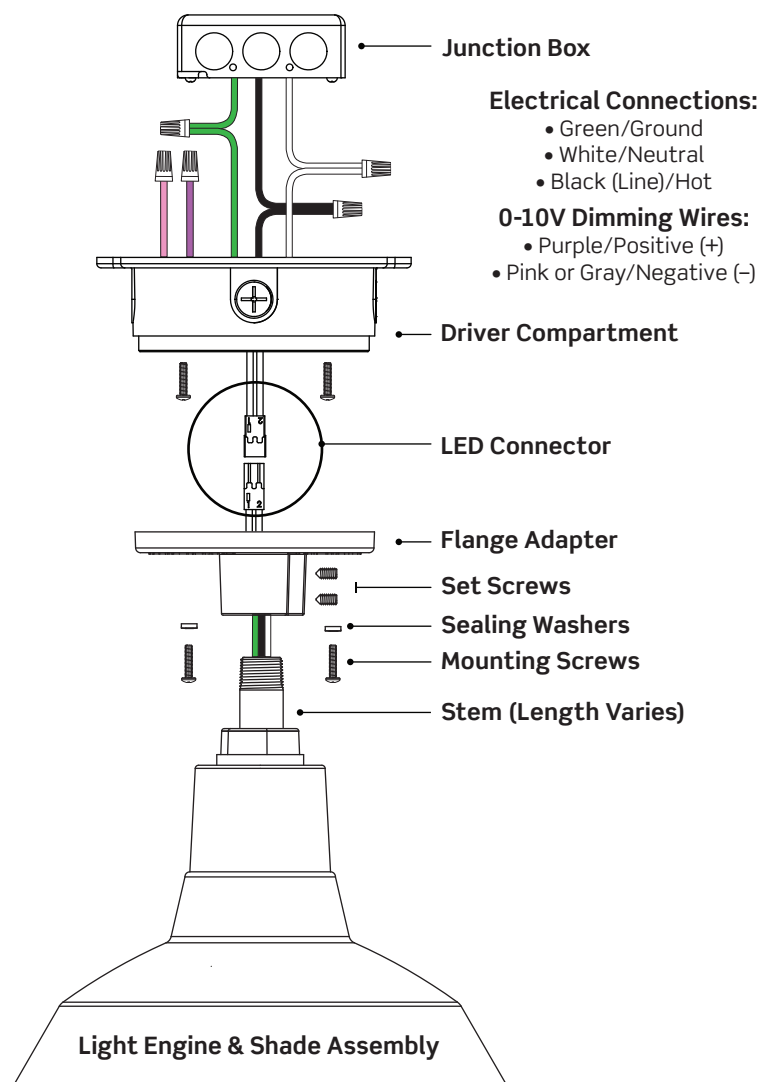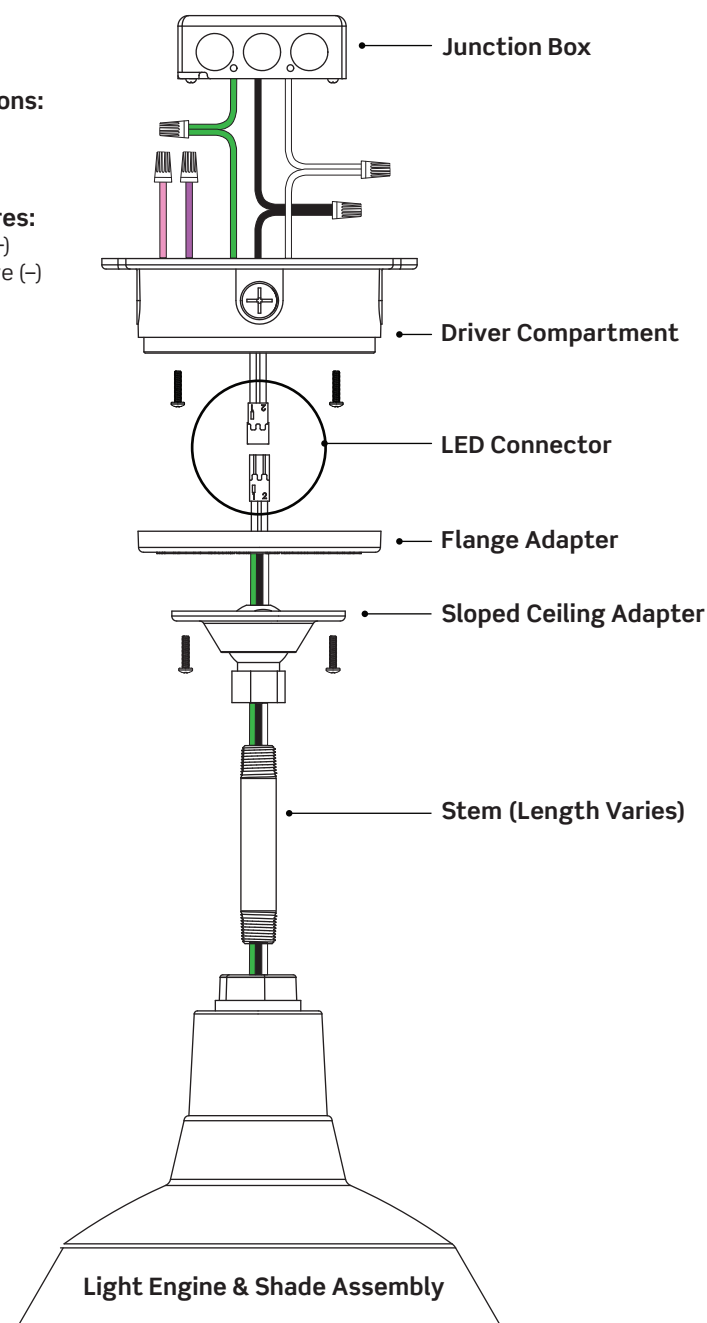### FIGURE 1
Flush and Fixed Stem Mount Configurations

- Junction Box

Electrical Connections:
- Green/Ground
- White/Neutral
- Black (Line)/Hot

0-10V Dimming Wires:
- Purple/Positive (+)
- Pink or Gray/Negative (–)

- Driver Compartment
- LED Connector
- Flange Adapter
- Set Screws
- Sealing Washers
- Mounting Screws
- Stem (Length Varies)

Light Engine & Shade Assembly

FIGURE 2
Sloped Ceiling Configuration

- Junction Box
- Driver Compartment
- LED Connector
- Flange Adapter
- Sloped Ceiling Adapter
- Stem (Length Varies)

Light Engine & Shade Assembly

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PREPARATION

- **NOTE:** Flush Mount and Fixed Stem Mount configurations are rated for Wet Location (Covered Ceiling only); Sloped Ceiling Mount configuration is only Dry or Damp Location rated
- Ensure Light Engine is securely applied to Shade; tighten upper Shade Nut if necessary
- Route Wire Harness through Stem
- Apply Teflon Tape to threaded end of Stem
- Screw threaded end of Stem to Light Engine Shade Nut
- Screw opposite threaded end to Flange Adapter (Fig. 1) or Sloped Ceiling Adapter (Fig. 2)
- Tighten two (2) Set Screws on Flange Adapter to lock Stem in place (Fig. 1)

INSTALLATION

FLUSH MOUNTED JUNCTION BOX

ELECTRICAL CONNECTION

1. Remove screws securing LED Driver
2. Extend incoming Supply Wires through center hole of Driver Compartment and route around LED Driver
3. Secure Driver Compartment to Flush Mounted Junction Box and/or Ceiling using Lag Bolts through external ears of Driver Compartment
4. Attach Black Line/Hot Wire to Connector with Black Wire, White Neutral Wire to Connector with White Wire and Green Ground Wire to Connector with Green Wire with Wire Nuts
5. Re-install LED Driver to Driver Compartment

DAISY CHAIN WIRE CONNECTION

1. Remove Black, White and Green wire pig tails from 3-Wire Connector by rotating while pulling
2. Insert Solid Wires into Supplied Wire Connectors: Black Line/Hot Wire to Connector with Black Wire, White Neutral Wire to Connector with White Wire and Green Ground Wire to Connector with Green Wire

DIMMING (OPTIONAL)

1. Attach Purple Wire of LED Driver to DIM (+) with Wire Nut and Pink/Gray Wire of LED Driver to DIM (–) with Wire Nuts

EXPOSED EMT (ELECTRIC METALLIC TUBE) CONDUIT and RIGID/IMC (INTERMEDIATE METAL CONDUIT)

1. Determine orientation of Driver Compartment to incoming supply
2. Remove appropriate Conduit Plug on Driver Compartment (Fig. 3)
   NOTE: Powder Coated Conduit Plug may require the coating to be broken loose to un-thread the plug. Tap a flat head screwdriver with a hammer counterclockwise on conduit plug to break seal.

FIGURE 3

Tap a flat head screwdriver with a hammer counterclockwise on Conduit Plug to break seal

3. Thread Conduit Connector into Driver Compartment
   NOTE: For RIGID/IMC CONDUIT, it may be necessary to unsecure the conduit from the structure to allow the Driver Compartment clearance to rotate
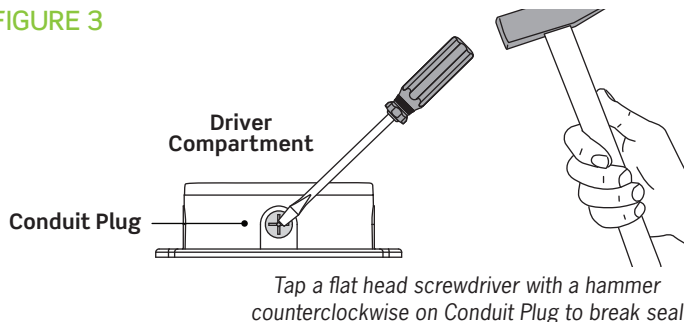4. Extend incoming Supply Wires through Conduit Connector and route around LED Driver
5. Secure Driver Compartment to structure or wall
6. Attach Black Line/Hot Wire to Connector with Black Wire, White Neutral Wire to Connector with White Wire and Green Ground Wire to Connector with Green Wire with Wire Nuts

DIMMING (OPTIONAL)

1. Attach Purple Wire of LED Driver to DIM (+) with Wire Nut and Pink/Gray Wire of LED Driver to DIM (–) with Wire Nuts

NOTE: For Outdoor (Wet Location) installations, if Conduit Plug is removed and reinstalled, it MUST be sealed with RTV Silicone Sealant

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FINISHING INSTALLATION

- If not already attached, secure Driver Compartment to Junction Box or Ceiling
- For added security, install Lag Bolts through external ears of Driver Compartment
- For Conduit Installations, tighten Compression Nut on Conduit Connector
- Mate LED Wire Connector from Stem to LED Wire Connector from Driver Compartment (Figs. 1 and 2)
- Attach Stem Assembly with Flange Adapter (Fig. 1) or Sloped Ceiling Adapter and Flange Adapter (Fig. 2) to Driver Compartment
- Apply power to Luminaire and test for operation
- Outdoor (Wet Location) installations require RTV Sealant around the entire perimeter of the Driver Compartment (Fig. 4), and need to be installed on covered ceilings only; Sloped Ceiling configuration is only rated for Dry or Damp locations.

FIGURE 4

Driver Compartment

Sealant around Perimeter

Optional Lag Bolts

Mounting Holes on Driver Compartment MUST be sealed if Lag Bolts are not used