Assembly Guide
Explosion Proof Dock Fan/Light Combination with Adjustable Arm - 24” Fan - 12W LED Lamp

The explosion proof dock fan/light combination unit arrives in several parts for shipping. Follow the steps below to assemble the unit.

The explosion proof dock fan / light has been disassembled in three parts.

1. Dock Mount Adjustable Arm
2. Explosion Proof Fan / Explosion Proof Camera Assembly
3. Mounting Pole for Explosion Proof Fan

Tools required:
- Drill / Wrench (9/16” & 7/16”)

Additional help for maneuvering unit is also necessary.

All bolting hardware is pre-place on the unit. Remove the bolts / nuts / washers prior to attaching each part.

1. Locate all pieces shipped with the unit. (FIGURE A)

2. Install Mounting Pole to Explosion Proof Fan.
   a. Locate and remove bolts already attached to base of fan.
   b. Place flat side of mounting pole into receiving base of the fan. (FIGURE B)
   c. Use a 9/16” wrench for the top bolt & 7/16” for the bottom adjustment bolt. (FIGURE C)

   Note: Adjust fan to the desired angle after installation.

3. Install Dock Mount Adjustable Arm to surface. This can be installed to the surface before step 4 or after step 5. Note: The fan and light will add weight to the dock mount. (FIGURE D)
   a. There are six pre-drilled mounting holes available for mounting dock mount to the surface.
   b. Utilize all six mounting holes to secure dock mount to surface. The explosion proof unit is heavy, therefore; the surface and hardware used MUST be capable of supporting the weight.
4. Attach Fan to dock mount:
   a. Position fan with pole mount attached under dock mount and attach pole mount to existing bolts. Remove the nuts and washers prior to installing and replace once bolts are through pole mount of fan. *(FIGURE E)*
   b. Tighten only single bolt towards back of fan. *(FIGURE F).* The other bolt is also used to secure the camera. Proceed to Step 5.

5. Attach Light to dock mount:
   a. Position explosion proof light on top of dock mount and secure with the existing bolt. Position light in the desired direction before tightening bolt. *(FIGURE G)*
   b. The bolt used for the light is the same used for the fan as shown in *(FIGURE H, I).*
Explosion Proof Dock Fan/Light Combination with Adjustable Arm - 24" Fan - 12W LED Lamp Instruction Guide

Thank you for your purchase of the Larson Electronics EPL-DL-24-12W-WF.24 Explosion Proof Dock Fan/Light Combination with Adjustable Arm. This dock light / fan comes disassembled for shipping. See Assembly Guide for assembling the unit. Please follow the steps below in order to operate and maintain this product.

IMPORTANT
READ CAREFULLY BEFORE OPERATING THIS UNIT. SAVE THESE INSTRUCTIONS FOR FUTURE REFERENCE. THE EPL-DL-24-12W-WF.24 MUST BE OPERATED IN ACCORDANCE WITH NATIONAL ELECTRICAL CODE AND ALL APPLICABLE LOCAL CODES.

FOR PERSONAL SAFETY, ALWAYS CONFIRM THE RATING OF ANY KNOWN HAZARDOUS OR POTENTIALLY HAZARDOUS LOCATION WHERE THE UNIT IS TO BE USED.

WARNING: TO PREVENT IGNITION OF A HAZARDOUS ATMOSPHERE, THE SUPPLY CIRCUIT SHOULD BE DISCONNECTED WHEN INSTALLING OR PERFORMING ANY MAINTENANCE ON THIS UNIT.

WARNING: WHEN INSTALLING UNIT IN HAZARDOUS LOCATIONS, CHECK THE OPERATING TEMPERATURE LIMITS PRIOR TO INSTALLATION TO BE SURE IT CONFIRMS TO THE ENVIRONMENTAL TEMPERATURE RESTRICTIONS AND NEC CLASSIFICATIONS. CHECK THE NAMEPLATE FOR TEMPERATURE (T) RATINGS.

WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK DO NOT USE ANY SOLID-STATE SPEED CONTROL DEVICE WITH THESE FANS.

WARNING: OPERATE FAN / LIGHT ONLY AT THE VOLTAGE OF YOUR SPECIFIC SUPPLY CIRCUIT.

WARNING: SUBSTITUTE COMPONENTS MAY IMPAIR EXPLOSION PROOF SAFETY.

WARNING: BEFORE SERVICING OR CLEANING THE UNIT, SWITCH THE POWER OFF AT THE SERVICE PANEL AND LOCK SERVICE PANEL TO PREVENT POWER FROM BEING SWITCHED ON ACCIDENTALLY.

- USING THIS PRODUCT FOR ANY OTHER PURPOSE THAN IT WAS INTENDED, OR NOT WITHIN THE OPERATING SPECIFICATIONS IN THIS MANUAL WILL VOID THE WARRANTY AND MAY CAUSE DAMAGE TO THE FAN / LIGHT OR SERIOUS INJURY TO PERSONNEL.
- DO NOT EXPOSE FAN TO WATER OR RAIN.

OPERATION
Plan a way for mounting the dock light / fan. Place in a location where it can operate as intended. Ensure the surface and hardware used are capable of supporting the weight. Ensure the fan will not come into contact with water.

WIRING

CAUTION: ALL ELECTRICAL WORK SHOULD BE PERFORMED BY A QUALIFIED ELECTRICIAN AND MEET ALL NATIONAL, STATE, AND LOCAL CODES.

Be sure the voltage and cycles shown on the motor nameplate correspond to the power supply. Check product nameplate for Ratings and Approvals. This fan / light is rated for single phase 115V or 230V AC 60 Hz operations based on model purchased. CHECK VOLTAGE RATING PRIOR TO ENERGIZING.

Units pre-wired with 120V 3-prong power cord:
- The power source must conform to the electrical requirements of the fan / light.
- The power cord has a 3-prong grounded plug that must be plugged into a compatible circuit.
- Do not alter the plug to remove the grounding prong and never use a two prong adapter.
- Replace damaged or worn power cords immediately.
- Where possible, avoid using extension cords. If one must be used, the cord must be UL listed, be the proper size (Amp rating), and have 3-prong grounded connections.
Before activating unit, inspect to be sure that there are no obstructions or debris on the fan that would interfere with the propeller. Check all fasteners for tightness.

**LAMP**

Use single bolt to provide rotation when mounting. Loosen the two set screws on the bracket to adjust vertical position as necessary. Lamp is “instant-on” and will illuminate once power is supplied.

**RECEPTACLE OPERATION**

Electrical connection between explosion proof receptacles and plug is accomplished after plug fully inserts into receptacle and rotated clockwise.

1. Lift receptacle door and locate polarization on mating plug pin and receptacle face. Insert plug straight all the way into receptacle until it cannot go further.
2. Rotate plug clockwise limit (37°), this closes internal contacts and completes circuit. This also mechanically locks plug into receptacle so it cannot be pulled out.
3. To remove plug, push plug inward and turn to counterclockwise, pull plug straight out.

**REMOVE MOTOR DRAIN PLUGS**

- After installing the fan, remove the motor drain plug located at the lowest point of the motor.
- Failure to remove the drain plug may allow condensation to build up inside the motor, reducing motor life and will void the warranty.
- Do not remove drain plugs on the top side of the motor.
- Drain plug locations and quantity may vary by motor design.

**TILT ADJUSTMENT**

The fan can tilt up or down by loosening the fasteners on the motor yoke bracket. Loosen the center 3/8” bolt and 1/4” bolt to adjust the fan to the desired angle and securely tighten all mounting hardware.

**CAUTION:** Fasteners may loosen over time. It is important to check and tighten fasteners frequently.

**MAINTENANCE**

**WARNING:**

DISCONNECT POWER BEFORE CLEANING OR MAINTAINING YOUR UNIT IN ORDER TO PREVENT SERIOUS INJURY OR DEATH.

It is recommended that you implement a standard monthly or more frequent preventive maintenance schedule. Safety requires a thorough visual examination of the unit for physical damage that might cause a spark or result in the ignition of hazardous atmospheres.

Maintenance includes a careful examination to ensure at least:

A. The Cable is not frayed and is gripping tightly in all points of cable contact.
B. The Cable Jacket is completely intact and that no internal conductors or conductor insulation is exposed.
C. The Connection Box is not cracked, broken or breeched.
D. The Cord Plug is not cracked or damaged and the Ground Post is intact.

Keeping blades clean and free of material splatter, overspray, and debris during usage will ensure the maximum life of the fan. An accumulation of dirt may cause blade vibration and motor overload. Occasionally check tightness of blade set screws.

**NOTE:** Handle the propeller carefully as it is factory balanced and aligned to ensure smooth operation.

- Some maintenance procedures may require removal of fan guarding.
- After servicing, guards and other safety devices must be reinstalled per their original condition.
- Excessive dust and debris may cause overheating and reduced fan performance.
- Keep guards, motor and blades clean by vacuuming or wiping with a damp cloth.
- Do not use harsh chemicals or cleaners to clean any part of the fan.
- Pressure washing the unit will void the warranty.
- Sealed motor bearings are pre-lubricated and do not require servicing.

### LAMP MAINTENANCE

- The lens should be cleaned periodically to ensure continued lighting performance. To clean, wipe the lens with a clean, damp cloth. If this is not sufficient, use a mild soap or a liquid cleaner such as Collinite NCF or Duco #7. Do not use an abrasive, strong alkaline or acid cleaner. Damage may result.
- Visually check for undue heating evidenced by discoloration of wires or other components, damaged parts, or leakage evidenced by water or corrosion in the interior. Replace all worn, damaged, or malfunctioning components, and clean gasket seals before putting the luminaire back into service.
- Electrically check to make sure that all connections are clean and tight.
- Mechanically check that all parts are properly assembled.

### TROUBLESHOOTING FAN

<table>
<thead>
<tr>
<th>SYMPTOM</th>
<th>POSSIBLE CAUSES</th>
<th>CORRECTIVE ACTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fan does not operate</td>
<td>1. Fan not plugged in</td>
<td>1. Check power cord connection</td>
</tr>
<tr>
<td></td>
<td>2. Blown fuse or tripped circuit breaker</td>
<td>2. Replace fuse or reset circuit breaker</td>
</tr>
<tr>
<td></td>
<td>3. Defective on/off switch</td>
<td>3. Repair or replace switch</td>
</tr>
<tr>
<td></td>
<td>4. Defective motor</td>
<td>4. Repair or replace motor</td>
</tr>
<tr>
<td></td>
<td>5. Fan blade contacting housing</td>
<td>5. Realign fan blade in fan housing</td>
</tr>
<tr>
<td>Insufficient airflow</td>
<td>1. Guards excessively dirty</td>
<td>1. Clean inlet and outlet guards</td>
</tr>
<tr>
<td></td>
<td>2. Blade and motor excessively dirty</td>
<td>2. Clean blade and motor</td>
</tr>
<tr>
<td>Excessive noise</td>
<td>1. Fan blade contacting housing</td>
<td>1. Realign fan blade in fan housing</td>
</tr>
<tr>
<td></td>
<td>2. Defective motor bearings</td>
<td>2. Repair or replace motor</td>
</tr>
<tr>
<td></td>
<td>3. Loose guards</td>
<td>3. Tighten guard fasteners</td>
</tr>
<tr>
<td>Excessive vibration</td>
<td>1. Damaged fan blade</td>
<td>1. Replace fan blade</td>
</tr>
<tr>
<td></td>
<td>2. Motor shaft bent</td>
<td>2. Repair or replace motor</td>
</tr>
<tr>
<td></td>
<td>3. Motor loose</td>
<td>3. Realign if necessary and tighten fasteners</td>
</tr>
</tbody>
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If you need replacement parts, please contact your dealer. Take special care when ordering replacement blades and motors to ensure you get the proper configuration for your fan. If you do not have that information, please contact Larson Electronics by phone 1-800-369-6671 or email sales@larsonelectronics.com for further assistance.

Please visit LarsonElectronics.com for **Warranty** and **Return** information.