

## CD-CL-HID-1 INSTRUCTIONS COLLINS PORTABLE HID SPOTLIGHT

**Warning:** Please read all instructions and warnings prior to installation. Power must be disconnected prior to installation or servicing. This luminaire must be installed and operated per NFPA 70 National Electric Code, and all applicable codes and regulations. These instructions are provided as a guideline for proper installation, and do not purport to cover every possible installation scenario or configuration. If questions arise, consult the factory.

### OPERATING INSTRUCTIONS:

#### 1. General Notes:

- This light is intended for handheld use only. It is equipped with a 12 VDC cigarette lighter plug adapter.
- The light is shipped with a bi-modal switch. The middle position is off. Pressing UP turns the light ON momentarily, Pressing DOWN turns the light ON to stay on.
- Do not leave the light turned on unattended.
- The lens can become very hot during operation, and can cause burns to skin and objects. Never touch the lens, and do not allow any objects to touch the lens during operation.

### MAINTENANCE & USAGE RECOMMENDATIONS:

#### 2. Lamp and Ballast Maintenance:

- **Make sure power is off before performing any maintenance on the fixture.** HID fixtures produce extremely high voltage (greater than 24,000V) during operation.
- Remove the lensframe screw and nut, and set them aside for reuse later.
- Gently flex the lensframe outward, and pull it straight off. Be careful not to twist or deform the lensframe when removing it.
- The lamp is attached to the reflector with one screw. If the lamp requires replacement, then simply remove the mounting screw, replace the old lamp with a new one, and replace the mounting screw. Make sure that the new lamp is oriented in the same direction as the old lamp.
- The lamp and ballast are connected by wires with quick-connects. If any of these wires are damaged, then both the ballast and lamp must be replaced. Do not attempt to repair damaged wires.
- The ballast is held in place with a flexible bracket. To remove the ballast, simply spread the bracket, and pull the ballast straight out. Install a new ballast by spreading the bracket and pushing the ballast straight in until it clicks and locks in place.
- When maintenance has been completed, first ensure that all connections are secured properly before proceeding.

- Reinstall the reflector, and align it properly. Clean the reflector if necessary with residue-free glass cleaner and a soft, lint-free cloth.
- Clean the glass lens, and place it on top of the reflector. The glass will directly hold the reflector in place.
- Wrap the lens gasket around the housing and lens. The gasket will hold the lens and fixture together. Ensure it is clean and placed properly before proceeding.
- Replace the lensframe by first pressing one end into the lens gasket. Make sure the tab is oriented properly before pressing it in firmly. Start pressing at the tab, and work the lensframe into the gasket by pressing firmly every couple of inches along the lensframe until the entire lensframe is seated properly. It is important to press in sequence, starting from the first tab and working all the way around the lensframe. The last place to press is the second tab, and the two lensframe tabs should meet closely when the lensframe is installed properly. Replace the lensframe screw and nut, and tighten them securely.

**Caution:** Do not touch the glass bulb of the lamp. If necessary, clean with isopropyl alcohol.

### 3. Troubleshooting:

- In the event of improper operation, first use a voltmeter to ensure that the fixture is receiving adequate input power. CD-CL-HID-1 fixtures require 12VDC for proper operation. If the voltage is too low, the lamp may fail to light or restrike. If the voltage is too high, the ballast and lamp can fail prematurely. Correct any faults found.
- If no electrical faults are found, then either the ballast or lamp may require replacement. Always replace the lamp first, especially if it is an old lamp.
- If the fixture fails to light after replacing the lamp, then replace the ballast as well.
- A new lamp should normally be installed whenever a new ballast is installed.
- If necessary, contact Havis-Shields for additional troubleshooting procedures.

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