

CAB OVER AMERICA LLC

Wireless Solar Cab Clearance Lights

U.S. PATENT PENDING

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Product Information

Cab Over America™ Wireless Solar Cab Clearance Lights are a stylish, high-quality, exciting, and revolutionary ***NEW*** lighting product for truck, SUV, & JEEP markets, but they can be used on any vehicle.

The **Cab Over America™** kit includes: dual-switch remote control, solar/Lithium-ion battery power, Scotch® 3M™ adhesive mounting tape, and wireless COB LED lights with 3 modes of operation.

Our cab running lights are easily self-installed with ***no wires*** and ***no holes*** drilled in the top of the cab of your vehicle.

Cab Over America™ solar lights save you time and money, freeing you from all the headaches and nightmares of headliner removal, wire harness installation, and fifteen or more holes drilled in your roof with traditional wired cab lights.

They look fantastic!

Our cab lights are available in three lens colors: ***Amber, Smoked, or Clear***

With no holes drilled into the top of your vehicle, our cab lights ***eliminate water leaks, electrical corrosion, and headliner damage*** that create ***stains, mold, and mildew hazards***. This will eventually occur with any standard wired cab clearance light.

Cab Over America™ lights are the only wireless solar-powered cab clearance lights on the market today!

We utilize a new super bright Circuit On Board LED, with a self-contained PET solar voltaic cell. Our lights are very bright: 200 lumens per light with plenty of run time (12-14+ hours), a custom-manufactured 1950.0 mAH. super high-temperature Lithium-ion battery. 3 modes of operation are controlled with a 433MHz wireless remote.

Cab Over America™ lights are ready to go! Only a few minutes of installation time are required.

Cab Over America™ Wireless Solar Cab Clearance Lights are more than just for style. A set of cab lights creates higher visibility for other drivers. Just like cars using daytime running lights on a sunny day, a vehicle with bright cab lights on the interstate in the middle of the night—with mostly big rigs sharing the road—is far safer because it unmistakably catches the eye, alerting other drivers to your well-lit vehicle.

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Disclosure Note:

Cab Over America™ cab lights are designed to be safety and accent lights, and are not designed to replace U.S. D.O.T. required marker lights on vehicles in excess of 80 inches in width. All larger vehicles are manufactured with cab lights already wired in. Example: A dual rear wheel pick-up truck with back wheel well fender covers exceeding 80 inches in width includes wired-in marker lights.

Solar charge time and run time may vary depending on weather conditions and geographic location. Typical run time on a full charge is 12 to 14+ hours in Extended Run mode (mode #2).

Note: We recommend using Clear or Amber lens colors during winter months for faster charging times.

We have incorporated the very best custom manufactured 1900 mAh 3.7-volt Lithium-ion Super High Temperature battery: 80°C (176°F) over the commonly used 60°C (140°F).

Charge time in full sunlight conditions for all three lens colors is approximately 30 hours.

Recommended: If you park in a garage or carport, you can mount an inexpensive 4-foot florescent shop light approximately one foot over the cab lights to charge them as desired.

Note: Our product has a 2-year full replacement warranty to include the waterproof solar light battery pack (SLBP). The SLBP is a low-cost \$25 unit and easily replaced when needed. Battery life average is 3 years and may vary slightly with use and environmental conditions.

At **Cab Over America™**, we utilize the latest innovative technologies, research, development, and testing to provide you with a very high-quality product, utilizing the highest-quality components available.

We use Scotch® 3M™ pressure-sensitive mounting adhesive. This superior product provides an extreme level of co-adhesion per single light for a permanent and complete secure mount on the cab of your vehicle.

Scotch® Extremely Strong Mounting Tape



Great for outdoor use. Used in auto manufacturing, Scotch® 3M™ double-sided tape has been replacing rivets and fasteners for years and is used to attach everything from dashboards to specialty car appliques. RV and truck manufacturers use specialized double-coated tape to bond panels together and fasten exterior mirror glass to the mirror housing bezels. These are just a few other applications where double-sided tape plays a major role. Water will not be able to penetrate through. This product is also UV resistant and can hold up to sun exposure. All weather.

Scotch®, 3M™, and the Plaid Design are trademarks of 3M.


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Type: Li-ion COA Battery/Remote Specifications

- Li-ion High Temperature
- Voltage: 3.7V
- Charger current: 1C
- Nominal capacity: 1950mAh
- Size: 7.0*40*60mm
- Weight: about 20g
- Max. charge current: $\leq 1C$
- Continuous discharge current: $\leq 0.5C$
- Peak discharge current: $\leq 1C$
- Constant discharge current: 0.2C (standard)/1C (maximum)
- Over-discharge protection voltages: $2.7V \pm 0.05V$
- Over charge protection voltages: $4.2V \pm 0.05V$
- AC Impedance new cell max.: $\leq 50m\Omega$
- Charge mode: CC/CV
- Working temperatures: 0 to 45°C (charge)/-10 to 80°C (discharge)
- Cycle lifespan: 2-3 years average.
- Protection functions: overcharge, over-discharge, overload, and short-circuit

 **WARNING: Lithium-ion Batteries and/or products that contain Lithium-ion Batteries can expose you to chemicals including cobalt lithium nickel oxide, and nickel, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, go to www.P65Warnings.ca.gov**



The remote control transmits an RF signal when in use and there is no signal when not in use. All product parameters are in line with industry standards.

USA Federal Communications Commission FCC and Canada IC

FCC/IC compliance statement: This device complies with article part 15 FCC regulations may not require the ID # since the transmitter sends no data with its signal and the signal on/off is of such short duration, less than 5 seconds, it does not require FCC ID # part 15 of the FCC regulations and is therefore Canada IC compliant.

Operation is subject to the following conditions:

1. This device may not cause harm harmful interference.
2. This device may accept any interference received including interference that may cause undesired operation information to user. This equipment has been found to comply with the limits for class B device pursuant to part 15 of FCC rules.
3. These limits are designed to provide reasonable protection against interference in a residential installation.
4. This equipment generates, uses, and can radiate radiofrequency energy.
5. If not installed and used in accordance with the instructions it may cause harmful interference to radio communications.

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Cab Over America™ Cab Clearance Lights

Your Cab Over America™ Cab Clearance Light kit will include the following items:

- One high-quality Cab Over America™ (COA) impact-resistant plastic foam lined case—reuse as desired!
- Five COA Solar Powered Cab Clearance Lights. Your choice of Amber, Smoked, or Clear lens options.
- One custom COA cloth measuring tape for easy installation.
- Four 3M sticky pads for use on COA cloth measuring tape.
- Two stylish black/chrome 433MHz remote control key fobs.
- Five Amber LED lens cover film adhesive tabs for converting the white COB LED lens on the solar light battery pack to Amber if desired (on Clear- or Smoked-colored lenses only).

Installation instructions

Tools Required

1. **Nut driver for 8-32 cap nuts** for Clear or Smoked lenses only. Nut driver is used to remove cap nuts to replace or change colored lenses. **Also used for resequencing operational modes and removal.**
***Note:** See instructions below to install Amber conversion film cover, or for resequencing or removing your lights.
2. **Isopropyl alcohol and water or (IPA) 70%**
3. **Dry clean cloth or paper towels**

***Note:** No matter how robust your adhesive is, or how well-suited it is to your application, a poorly prepared surface will negate the strongest adhesive. **To ensure a strong bond, surface preparation is the key to success.**

***Note:** For optimal bond performance, mounting tape adhesive should be applied at a temperature of 50-100°F (21-32°C). To ensure the best performance, surfaces should be dry and free of condensed moisture.

Instructions to install Amber conversion LED lens film cover adhesive tabs (for Clear or Smoked-colored lenses):

To install Amber conversion LED lens film cover adhesive tabs (if you have ordered Clear or Smoked-colored lights and prefer Amber light over white light):

1. Remove the cap nuts, lenses, and solar light battery packs (SLBP).
2. Apply the 5 peel-and-stick Amber conversion LED lens film cover adhesive tabs (provided in your kit) over the COB LED lens on each SLBP.
3. Reassemble in reverse: secure SLBP in place, affix lens cover into the rubber seal, and torque cap nuts 15-20-inch pounds.

Step-by-step instructions

for installing your Cab Over America™ Solar Cab Clearance Lights

- 1.** Using a soft cloth and a **50:50 mixture of isopropyl alcohol and water** or **(IPA) 70%**, clean the entire mounting area on the top of your vehicle. The alcohol will dissolve light grease and water will eliminate dirt and accumulated dust. **Make sure the surface is thoroughly dry before applying the adhesive.** Try not to touch the cleaned surface as finger oils and other contaminants may affect the bond. **Make sure all surfaces are clean and dry.**

- 2.** **Apply three of the four 3M sticky pads** provided with your kit to the underside of your COA cloth measuring tape, **one at each end and one at the zero-inch center point** to temporarily secure tape to the top of your vehicle to ensure correct placement. Using a small step ladder or by standing in the front open-door jambs, position yourself to carefully access the roof area.

***Note:** The zero-inch reference is at the mid-point on your cloth measuring tape. Center your zero-inch reference point where you want the center light.

- 3.** **Attach cloth measuring tape to the cab of your vehicle**

- a)** **Adhere the center adhesive tab on the measuring tape to the center of the roof** by notating and aligning to center with the rear-view mirror placement. Affix the middle sticky pad approximately 1 to 6 inches away from the windshield as desired or necessary (see note below) on the center of the vehicle's roof. This will be the position of your center light.

***Note:** The cab lights should be positioned on your vehicle's roof so the rubber base forms a suction-tight seal smoothly over the curve of your roof, and should be mounted far enough back on the vehicle's roof so the LED illuminates parallel to the road and does not point down to illuminate the hood of the vehicle.

- b)** **Gently pull each end of the measuring tape taut** and stick the remaining two adhesive tabs on the measuring tape to each side of the roof, aligned parallel to the windshield roofline position on the top of your vehicle. This will ensure proper placement of each light.

***Note:** You can choose your cab light configuration spacing. For example, you can place three lights in the center and one each side, or you can evenly space the lights, whichever look you desire. It's up to you!

- 4.** **Pre-position your five cab lights on the roof of your vehicle**, behind the measuring tape, aligning them as desired to the increments on the measuring tape, **without removing protective film on adhesive tape.** This will ensure proper placement before permanently adhering your cab lights to the roof.
- 5.** Stand away from the vehicle and **take a good look** at the placement of your lights. **Make sure that you like the placement of cab lights that you have chosen before you move on to step 6.** Rearrange as desired before proceeding.

- Starting with the center light at the middle position, **remove the protective liner from the 3M adhesive strip on the bottom side of your center cab light** and discard.

***Note: Remove tape and apply each light one at a time** to ensure proper placement of each light.

- Very carefully apply the adhesive side of the cab light to your pre-determined position** marked by the increments you have chosen on your cloth measuring tape.
- Press down very firmly on the top of the light and hold for 5 to 10 seconds** for permanent adhesive contact.
- Repeat steps A and B** with the four remaining cab lights.

- Remove the cloth measuring tape secured by the temporary 3M sticky pads.** Carefully clean any remaining adhesive residue from the measuring tape with alcohol and water using a clean dry towel.

That's it! You're done and ready to hit the road in safety and style!

Operational Instructions

Two wireless remote switches are included in your Cab Over America™ kit.

Your **remote-control key fobs** have two buttons on the face (**On** and **Off**).

The **Sunburst (*)** is the **ON** button at the back of the fob.

The **Circle with Intersecting Line (Q)** is the **OFF** button at the front of the fob.



There are 3 modes of operation with your cab clearance lights.

You can sequence through the modes of operation by depressing the **ON** and **OFF** buttons through each mode.

The 3 modes of operation are:

#1. Super Bright: Daylight/Dusk/Dawn/Fog Mode

#2. Extended Run: Night Mode (12-14 hours run time)

#3. Flash Emergency: Strobe Mode

***Warning: Do not operate the remote in excess of 40 feet from the vehicle.** This is to ensure that the remote signal is strong enough to operate all five cab lights and does not un-sequence the 3-mode operation of the lights.

The remote control will operate the cab lights properly from inside the vehicle or within 40ft of the vehicle.

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Resequencing operational modes:

Initially, all five lights are sequenced to the same mode.

If your lights go out of sequence, perform the following:

1. Turn ON your cab clearance lights to #1 or #2 of the three modes.
***Note: Be sure to write down or remember the mode you have chosen (mode #1 or # 2) for reference.**
2. Locate the light or lights that are out of sequence.
 - a. Using an 8-32 nut driver, remove the two cap nuts, lenses, and solar light battery packs (SLBP) one at a time.
 - b. Move the SLBPs that are out of sequence to a location far enough away so to avoid interference with the operation of the remaining SLBPs located on the vehicle (approximately 500 feet).
3. After relocating, using the ON and OFF buttons, sequence the individual light to the desired mode you chose (mode #1 or #2).
4. Ensure that the newly sequenced SLBP matches the mode sequenced on the remaining lights on your vehicle.
5. Reinstall the SLBP and lens with cap nuts using 8-32 nut driver (torque to approximately 15-20-inch pounds) on your vehicle.
6. Perform a final check sequence operation by depressing ON and OFF switches through all three modes, verifying all lights are in the same sequence mode.
7. Repeat as necessary with each out-of-sequence light.

Removal of your cab lights:

Although our lights are permanently mounted, they can be removed and reinstalled on another vehicle.

For each light:

1. Remove the two cap nuts using a 8-32 nut driver, remove the lens, the solar light battery pack (SLBP), and the rubber base leaving only the aluminum stud plate.
***Note: If your paint is in good condition, there should be no damage to your vehicle. Please note that Cab Over America™ LLC cannot be responsible for paint damage that may occur from removing your cab lights.**
2. Using a hair dryer on a medium- or high-heat setting, apply heat to the aluminum stud plate. Hold the hair dryer a few inches away from the aluminum base and the painted surface of the cab, focusing on the edges and corners of the aluminum plate. This will cause the glue in the tape to soften.
3. After a few minutes, set the hairdryer aside and try to lift one of the corners of the aluminum base and tape with your fingernail or similar non-damaging item. Be careful not to cause damage to the paint. Most of the tape should come off, but you may need to apply heat from the hair dryer again.
4. Using a soft cloth and a 50:50 mixture of isopropyl alcohol and water or (IPA) 70%, gently remove any remaining adhesive. The alcohol will dissolve the adhesive residue and remove any accumulated dirt.

***Note:** You can purchase new Scotch 3M™ Scotch® Extremely Strong Mounting Tape online or from local home improvement retailers. Simply reapply new adhesive to your cab lights and you are ready to mount them on your next vehicle.

Thank you for purchasing Cab Over America™ Wireless Solar Cab Clearance Lights!

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