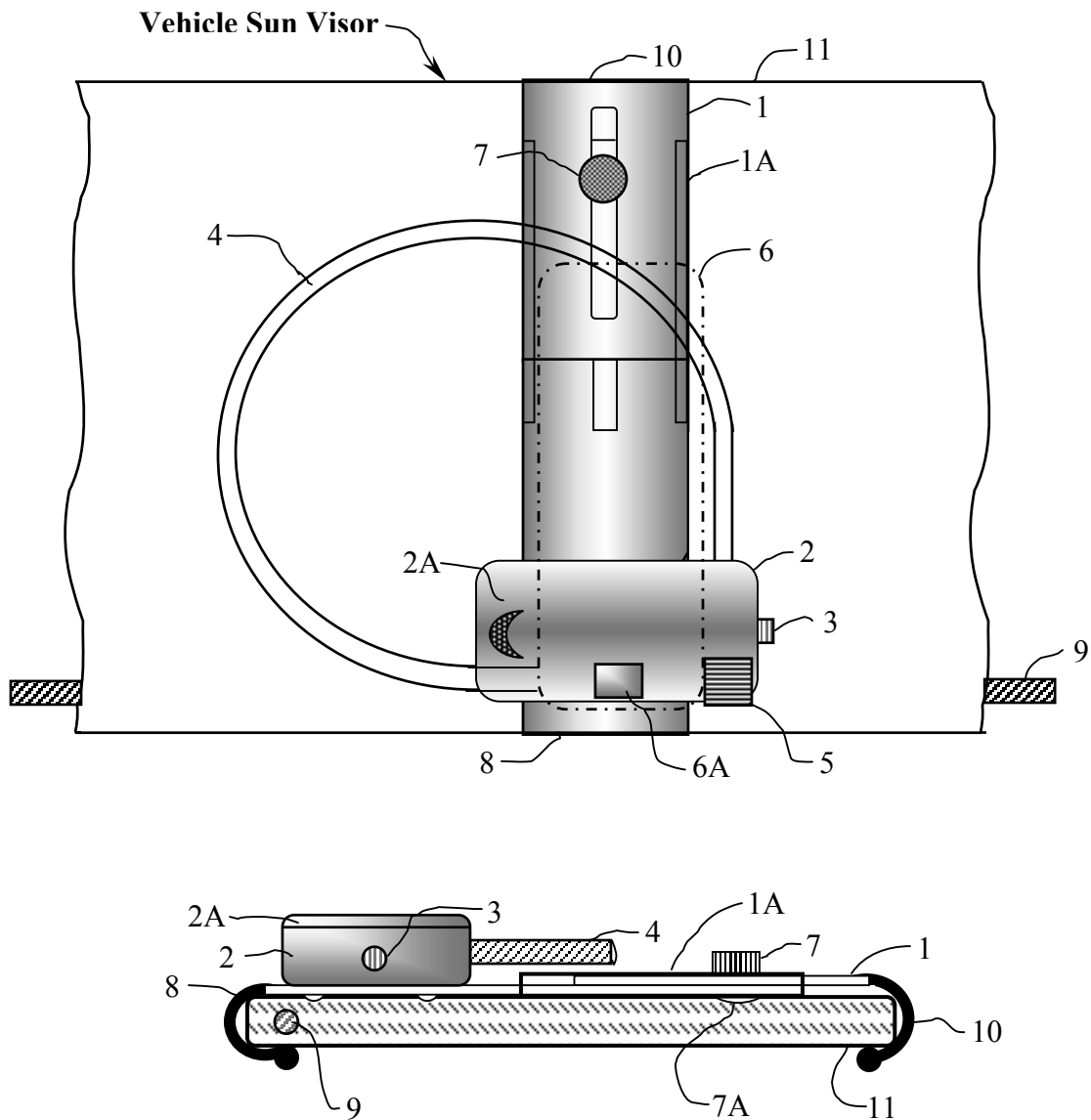


Sample Electric Light Visor Instructions



- | | |
|---------------------------|-------------------------------------|
| 1- mounting bracket | 7- bracket tightening knob |
| 1A- bracket side channels | 7A- domed glide screw |
| 2- battery compartment | 8- lower bracket edge gripper |
| 2A- slide-off top | 9- hinge rod |
| 3- on-off light switch | 10- upper bracket edge gripper |
| 4- flextube | 11- upper edge of vehicle sun visor |
| 5- light source | |
| 6- flag shade | |
| 6A- tube flip | |

The Electric Light Visor

General Information About The Electric Light Visor

The Electric Light Visor, or ELV, is a patented auxiliary shading device that is bracket-mounted onto the hinge rod edge of your vehicle's sun visor. The ELV was designed to serve two purposes: 1. To act in lieu of one's extended arm and outstretched hand to block focal sunlight; 2. To serve as an interior map light, or as an exterior emergency light. When not in use, the ELV is easily stored out of the way flat against the underside of the vehicle sun visor. When the ELV is properly installed and stored, the vehicle sun visor may be used in its normal ways without interference.

The ELV consists of the following basic user parts: a vehicle sun visor mounting bracket **1** with retaining side channels **1A**; an attached battery compartment **2**, with an on-off light switch **3**; an interconnecting length of stay-put flexible tubing called a "flextube" **4** which has a small 3V light source **5** at its extended end; and, an opaque, rotatable, miniature fabric shade called a "flag shade" **6** which is attached to the free end of the flextube by means of a tube clip **6A**.

The vehicle sun visor mounting bracket is a knob-tightened, slide-on bracket, which captures the upper and lower edges of your vehicle sun visor for mounting purposes. The flextube supports the miniature, rotatable flag shade at a right angle and allows it to be manipulated or "steered" into any temporary horizontal shading position, or to be held in temporary or long-term storage flat against the underside of your vehicle sun visor.

Installation of The Electric Light Visor

Once your ELV is properly installed it need not ever be removed again until you change vehicles. When the ELV is properly installed, it will not hinder or otherwise interfere with your normal use of your vehicle sun visor.

If your vehicle's sun visor has a tightening setscrew, this should be tightened before installation of the ELV to discourage unwanted visor rotation. If you find that your vehicle sun visor is one that is sufficiently loose on its hinge rod as to unexpectedly rotate downward, you should **not** install the ELV in your vehicle.

To install the ELV on your vehicle sun visor on the driver's side, first place the vehicle in Park and push the vehicle sun visor up into its normal storage position against the inside roof fabric of the vehicle.

Install the ELV knob-tightened, slide-on mounting bracket by completing the following steps:

Loosen the bracket tightening knob **7** on the domed glide screw **7A**, and slide the bracket open sufficiently so that the lower bracket edge gripper **8** will capture the hinge rod edge **9** of the vehicle sun visor and the upper bracket edge gripper **10** will capture the upper edge **11** of the vehicle sun visor. Then slide the bracket tightly closed against the vehicle sun visor edges and tighten the bracket knob.

If your vehicle sun visor is taller than the length of the bracket, you may remove the bracket tightening knob, separate the upper and lower bracket pieces, and then slide the lower bracket piece onto the lower edge of your vehicle visor. Then slide the upper bracket piece onto the top edge of the vehicle sun visor and position its open slot over the extended screw, and reattach the bracket tightening knob.

You will now be able to properly curl the flextube counterclockwise and push the curled flextube and flag shade upward with the palm of your hand so that the Light Visor

system is placed in a “parked” vertical storage position flat against the underside of the up-raised vehicle sun visor.

When the ELV flextube is properly curled counter-clockwise, and the flag shade is pushed flat against the underside of the vehicle sun visor, you will be able to rotate the vehicle sun visor in its normal range of operations without hindrance or interference from the Light Visor. Installation of the ELV will also not interfere with the use of the vanity mirror in the vehicle sun visor. If you have a second ELV, which you wish to install on the passenger side of the vehicle, the installation instructions above will apply if you place the mounting sheath generally in the middle of the passenger side vehicle sun visor length. To readjust or remove the ELV, simply loosen the tightening knob and expand the slidable bracket.

Operation of The Electric Light Visor

Steering the ELV flag shade from its storage position to a desired location is best done by positioning your left index and middle finger over the flextube at the rear rotational coupling side of the flag shade, and placing your left thumb on the front portion of the flag shade immediately opposite to your index and middle fingers.

This gripping position will allow you to securely grasp the bottom portion of the flextube that connects with the flag shade, and to also accurately control the frictional rotation of the flag shade to an appropriate sun blocking position. Steering of the flag shade end of the flextube is then done by pushing or pulling the end of the flextube to the desired location, and then rotating the flag to a desired horizontal position just above your line of sight. It is normal for the flextube to occasionally make a slight creaking noise when it is being steered.

Try not to look at the flag shade as you position it. The flag shade will be going between your eyes and the bright sunlight (just above your line of sight), and you do not want to look directly at the sun.

In order to properly alternate between the use of the ELV and the normal use of your vehicle sun visor, rotate your vehicle sun visor fully downward and become aware of how far down it extends toward your line of sight. When the sun is shining into your eyes through this area there is no point in using the ELV’s smaller flag shade to attempt to block the incoming sunlight. Or again, when the sun is shining in this area, place the ELV into its storage position and utilize your vehicle sun visor until the ELV is again needed. If the sunlight should travel outside of this area, rotate your vehicle sun visor upwards again and operate the ELV as just described.

The end of the flextube is grasped preferably between the thumb and first two fingers of the left hand for leftward movements, and with the thumb and first two fingers of the right hand for rightward movements. While your vehicle is **parked**, please practice steering the flag shade to the front and either side of your head as though the flag shade were between incoming light rays and your eyes. Steering the flag shade so that it blocks small objects in the distance, like a sign or post, will give you the general feel for control of the flag shade and flextube.

The flag shade should only be horizontally positioned and **should always be just above your line of sight**, or far enough out of your line of sight of the road to allow you to see around the miniature shade flag.

Since the flag shade may be rotated at the end of the flextube, it is often simpler to flip the flag from one direction to another, rather than to reposition the flextube. For example, when the sun is focused on the upper left corner of the front windshield, and a right turn is made, it is simpler to rotate the flag to the left than to reposition the flextube. Similarly, when the sun is to the left or right side of the vehicle, it is often easier to

extend the flextube rearward and then rotate the flag to point rearward to extend the reach of the flag shade into the required position.

The flextube may be steered as often as is necessary to continuously adjust the flag shade positioning. The flextube will not fatigue or lose its “stay-put” ability under normal use, and irrespective of temperatures in the vehicle. With very little practice while your vehicle is parked, you will become readily familiar with alternate one-handed manipulations of the flag shade and flextube without looking directly at the flag shade or flextube. If you cannot adjust the flag shade to a required position without looking at the flag shade or flextube, then you are not ready to use it while driving on the roadway. You should never take your eyes off the road to adjust the flag shade and flextube!

The flag shade should always be positioned just above your line of sight, and NEVER placed directly in front of your eyes. If used properly, the flag shade will not obstruct your clear view of the road any more so than your vehicle sun visor would, because its only intended use is to block out focal sunlight above or out of your line of sight of the road. Should the flag shade ever be in front of your eyes, push it up and out of the way!

Even if the flag shade should ever accidentally strike your face, its light weight, blunt edges, and soft, collapsible material would prevent any possible threat of injury. As well, the flextube cannot become locked into the steering wheel because its flag shade cannot capture the steering wheel parts.

The flag shade should NEVER be used at night to block out headlamp glare or other light sources! And the flag shade should NEVER be used for blocking light from a rear view mirror! Any such use will lead to vision obstructions!

Storage of The Electric Light Visor

The vehicle sun visor may be used in a normal manner without the ELV hindering or interfering in any way once the flextube has been coiled counter-clockwise and pushed flat against the underside of the vehicle sun visor. In this “parking” position, the flag shade will be facing upward at a right angle to the hinge rod end of the vehicle sun visor, that is, with the flag shade’s free end pointed up toward the roof, and with the flag shade pressed flat against the battery compartment. Such a “parking” position will maximize the curvature of the flextube and minimize the storage size on your vehicle sun visor.

Using The Electric Light Visor Lighting System

Your ELV has a 3V battery-operated lighting system, which is activated by a push-on, push-off light switch **3** located on the right side of the battery compartment **2**. The two penlight batteries used are easily replaced by sliding off the battery compartment cover **2A** and exchanging the old batteries for new. The battery compartment also serves as a mounting means for connecting the fixed end of the flextube within an upper mounting hole by means of a hidden set screw. The light source at the free end of the flextube is a small 3V bulb of the type typically used in MagLite flashlights, and may be easily replaced by pulling off its lens cap and then pulling the twin-wire bulb free from its mounting plate and re-inserting a new bulb.

The ELV lighting system is basically a flexible arm light that may be extended in any required direction within the vehicle, but is typically used in a downward curve so that it faces toward the reading surface of a map, book, or other reading material.

During an emergency situation, such as when needing light to change a flat tire at night, or when needed to check an engine-related problem, or look within a trunk, or signal other motorists that you require assistance, the slidable bracket of the ELV may be easily removed from the vehicle sun visor and the ELV light system used outside the vehicle as needed. As well, the frictional rotational coupling of the flag shade will allow it to be slid upward on the flextube if required.

Your Electric Light Visor should provide you with years of safe and reliable service, and be unaffected by temperature changes, breakage or deterioration. We sincerely hope that you find that your Electric Light Visor matches or exceeds your expectations.

For further information, please visit TheLightVisor.com.

Please Note:

The sample instructions given above are for an Electric Light Visor model that has not yet been made. These sample instructions would not be wholly applicable or complete if the Electric Light Visor prototype design is otherwise modified, or done in an alternate embodiment format, e.g., with a snap-on-off shade, tinted shades, or if done with a different form of mounting means, etc. [Sample Instructions for a Non-Electric Bracket Mounted Light Visor](#) are provided elsewhere on this site, and suggest the use of a Light Visor without a light source, power source, switch, and conductive circuitry.

The main independent claim of the Light Visor patent, which recites, “a compression clip mounting means suitable for detachably mounting said device to a vehicle sun visor...” could, under the patent Doctrine of Equivalents, be equivalently embodied as a spring-biased or screw-tightened, slidably-engaged mounting bracket.

As depicted above, such a plastic and/or metal mounting bracket would serve to capture the upper and lower edges of a vehicle sun visor without hindering or obstructing the use of the vehicle sun visor. Such a mounting bracket would also eliminate the need for the compression levers in the mounting clip system shown in the sample non-electric Light Visor prototype photos, and thus make the installation of the Light Visor devices much simpler and easier.

Since a spring-biased, slidable mounting bracket could prove awkward to use, and might be inadvertently pulled free of the vehicle sun visor, it has seemed better to limit experimental brackets to the knob-tightened type. Such a mounting bracket, as shown in the drawings above, would then be equivalently suitable for either a non-electric or an electric Light Visor device.