

### 1 LED, Mount And Vehicle Prep

Remove the LED and the mounts from the packaging. The LED will come with a generic hardware kit, none if this hardware is required. In the mount box you will find some the only required hardware. Using a 14mm deep socket or wrench remove the nuts that hold the aluminum crash bar against the frame. There are 3 on each side, only remove the two on the outside of the frame. These nuts are very tight and will require a lot of effort. After these nuts are removed you are now able to put the mounts on.

### 2 Cutting The Lower Grill

Next you will need to use a Dremol or other fine cutting tool to cut out the fins of the lower grill. Once the fins are cut out you can use sand paper to clean up and rough areas. You are now ready to install the mounts.

### 3 Installing The Mounts

Take the mount in hand and route it into position. This is best accomplished by going from the bottom of the bumper and outside of the frame rail. Move the mount upward and into position over the crash bar. The mount should now be able to slide over the frame studs that hold the crash bar in place. After the mount is slid over the studs thread the nuts back on to keep the mount from falling off. Do not tighten the nuts against the mount. Leave about ½" of space between the nut and the mount to allow for movement which will make installation of the LED much easier. **THE ARM OF THE MOUNT SHOULD BE OVER THE FRAME RAIL. IF IT IS OUTSIDE, THE MOUNT IS ON THE WRONG SIDE.**



#### **4 Install The LED**

Now that the mount is in position remove the LED from its packaging and find the included hardware. You will need the two separately packaged bolts and washers that insert into each side of the LED. The next step is to route the LED into position between the mounts. This is best done through the cut out grill opening.

#### **5 Bolting In The LED**

Once the LED is in position between the mounts you will need to install the included bolts and lock washers through the mount and into the LED. The flat washers goes against the mount, followed by the lock washer, and then they press against the head of the bolt. Mount /Flat / Lock ← Bolt. This is a tight space and can be hard to get started. The best position is to go from underneath your truck and outside the frame rails as you can see the mounts clearly and have a clear path. Having a helper to keep the LED straight will help you to get these bolts in easier.

#### **6 Final Pieces And Torqueing Bolts**

Once the bolts are started tighten them against the mount, but do not torque. Do the same with the crash bar nuts, tighten against the mount but do not torque. Now that everything is snug you should attach all the wiring. The wiring will depend on many factors: custom system, supplied harness, or professional install. Now that the LED is wired you can do the final steps. First you want to position the LED in the grill. Using the slotted holes on the mount adjust the mounts to a position that centers your LED in the grill opening. Now you can tighten and torque the nuts to the required torque spec called out by Toyota. Lastly we want to aim the LED. Turn the LED on and rotate it in the mounts to the desired position. Once it is where you want it torque the two bolts that hold the LED in place.