The Van's Light Box Project can be completed in two configurations and with several different styles of rivets included in your kit. Rivet types can be mixed and matched to suit your preferences (Note that the nutplate rivets must be AN426 as shown in Figure 2). These instructions explain the common steps for all rivet types, and for the basic configuration (LB-00002 Light Box Backplate attached with screws). By rearranging the parts, the Faceplate can be attached with screws in lieu of the Backplate. Decide which part you want to be removable before starting, and adjust the parts placement and Step 4 to suit.

Step 1: Inventory the parts and hardware in your kit. It is good practice to organize and arrange the parts and hardware for ease of location during the build.

NOTE: Dimple only the nutplate rivet holes at this time.

Step 2: Dimple #40 the rivet holes in the K1000-06 nutplates, the nutplate rivet holes in both LB-00005 Light Box Long Angles and both LB-00006 Light Box Short Angles. See Figure 2.

Step 3: Rivet the nutplates to both LB-00005 and both LB-00006 using the rivets called out in Figure 2.

Step 4: Drill #27 and debur all holes in the LB-00002 Light Box Backplate.

NOTE: Instructions specific to individual rivet types are located at the bottom of these instructions. Additional details can be found in Section 5.

Step 5: Prepare the remaining Light Box parts for riveting as required for your chosen rivet type.

NOTE: Now is the best time to scuff or prime & paint the interior surfaces of the Light Box if desired.

Step 6: Assemble the Lightbox as shown in Figure 3.

Step 7: Mark the desired location for the LB LED POWER SUPPLY wire to exit the Light Box. Step Drill 3/4 a hole at the mark, debur, then install the AN931-4-12 Gromet in the hole.

Step 8: Cover the exposed wires at the end of the LB LED STRIP with heat shrink or tape. See Section 5.

Step 9: Clean the interior of the Light Box with denatured alcohol, then install the included LED strip lighting as desired.

Step 10: Connect the LB LED POWER SUPPLY to the LB LED STRIP.

CAUTION: Carefully consider the security of your display location for the completed Light Box to prevent unauthorized "borrowing" of your project.

WARNING: Display of completed Light Box may cause extreme envy among your flying buddies.

SECTION 5

RIVET PREPARATION DETAILS:

AN426AD3-3: Machine Countersink #40 the holes in the LB-00001 Light Box Faceplate.

NOTE: Do not dimple rivet holes in the LB-00007 or LB-00008 on flanges that will mate to the LB-00001. Dimple #40 all other rivet holes.

AN470AD3-3: Debur all rivet holes as required.

LP4-3: Match-Drill #30 all rivet holes and debur.