

#### **ZENITH 601, VLS INSTALLATION**

09/99

DRWG. 6500-A

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#### READ INSTRUCTIONS COMPLETELY BEFORE BEGINNING INSTALLATION!

The BRS installation for your Zenith 601 was designed to provide a high probability of the aircraft remaining attached to the parachute during deployment and subsequent descent. This means that even with the 6 separate attach points designed to spread the load around, the aircraft will most likely be damaged by the event.

SPECIAL SAFETY ADVISORY



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PRIOR TO DEPLOYING YOUR BRS, PULL YOUR LEGS UP TOWARDS YOUR BODY IN ORDER TO CLEAR THEM FROM THE AREA OF THE FORWARD ATTACH POINTS. THIS PORTION OF THE AIRCRAFT MAY SUFFER DEFORMATION DUE TO PARACHUTE OPENING LOADS. LEGS REMAINING IN THIS AREA COULD SUFFER SEVERE INJURY. BE SURE TO INCLUDE THIS IN YOUR SAFETY BRIEFING TO YOUR PASSENGER!

Before starting the BRS installation to your "601, it will be neccessary to purchase the hardware that is not included in the kit from outside vendors (Wicks, Aircraft Spruce etc.). This hardware is used to attach the Harness assemblies to the aircraft. Refer to the Bill of Materials below.

BILL OF M	IATERIALS.)				
ITEM	DESC.	CT.	ITEM	DESC.	СТ.
Bolts	AN 5-14A AN 3-5A AN 3-6A	12 24 36	Rivets, Al. Avex Rivets, Steel Blind Alum, 6061-T6	5/32 1/4" .050	90 16 12"x 30"
Nuts	AN 363-524 AN 363-1032	12 60			
Washers	AN 960-516 AN 960-10	24 120			

<sup>\*</sup> Bolt dimensions depict minimum estimated lengths based on information available to BRS. Its advisable to double check these bolt lengths based on your aircraft and place your order accordingly.

IMPORTANT: Use only the standard size (MS 20365) fiberlock nut when substituting hardware. DO NOT use the thin fiberlock nuts (MS 20364) as the loads are predominantly in tension!

<sup>\*\*</sup> The BOM lists non-fiberlock nuts due to installation within the engine compartment. Those nuts installed outside the engine compartment may be substituted with fiberlock nuts.

ZENITH 601, FRONT HARNESS ASSY. DRWG. 6500-B DRAWING BY JEFF PELTIER 09/99 (C) 1998 BRS INC. NOTE: DRAWING DEPICTS TRANSPARENT FUSELAGE FOR CLARITY. Making Flight Safer **NOT TO SCALE!** Bolts, nuts, washers and blind rivets must be PARACHUTE INSTALLATION purchased seperately. **REQUIRES RE-CALCULATION** These items NOT supplied **OF WEIGHT AND BALANCE!** by BRS. 12" RAIL (PN 8108) #12 LINK "Rail" material comes in (PN 5014) BOLT, AN3-6A pre-cut 30" lengths. It must be cut to size by builder. (a)(a) SEE SIDE ILLUSTRATION FOR HOLE DOUBLER DETAIL. NUT. AN 363-1032 -**BRIDLE CLAMP** (PN 3205) WASHER, AN 960-10-0 NUT. AN363-524 **BRIDLE EXTENSION** WASHER, AN 960-516 (PN 1705) WASHER, AN 960-516 (i)(i) BOLT. AN 5-14A BOLT, AN 3-5A WASHER, AN 960-10 3.00" Lower Longeron 0 BOLT. AN3-6A

HARNESS HOLE DETAIL as seen from inside

.050 ALUM.

**DOUBLERS** 

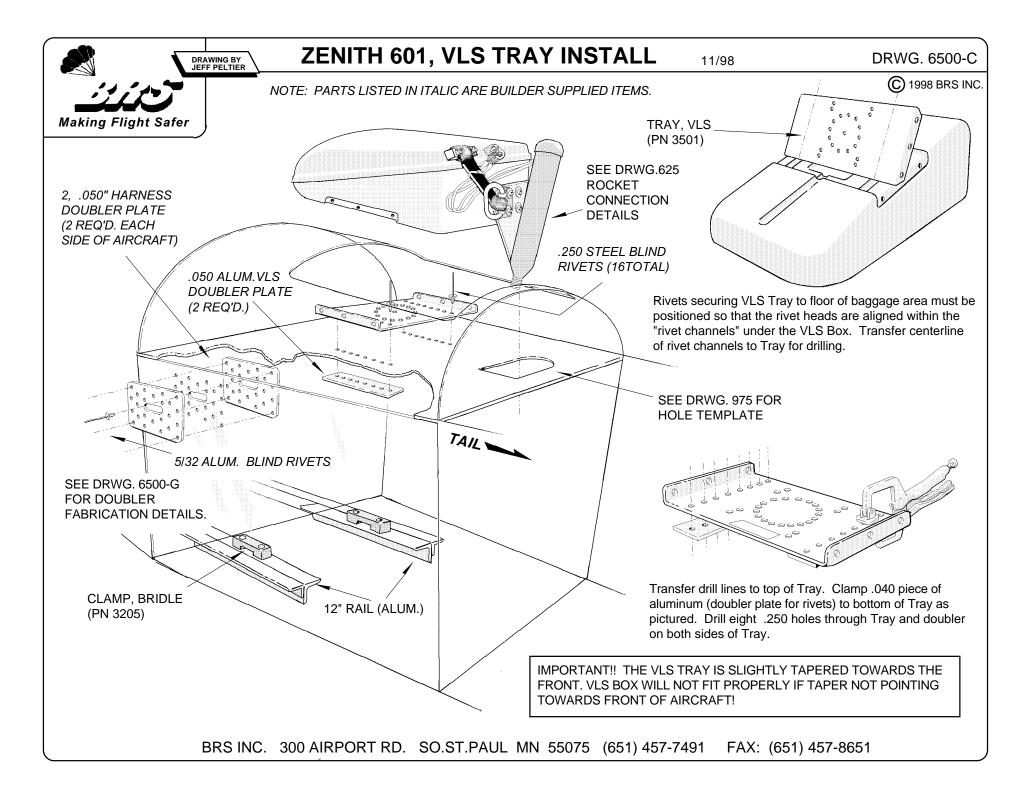
Remember to take photos of installation and send them in to BRS for review!

WASHERS AND NUTS NOT SHOWN

BRS INC. 300 AIRPORT RD. SO.ST.PAUL MN 55075 (651) 457-7491 FAX: (651) 457-8651

THIS SECTION CUT-AWAY

FOR CLARITY.



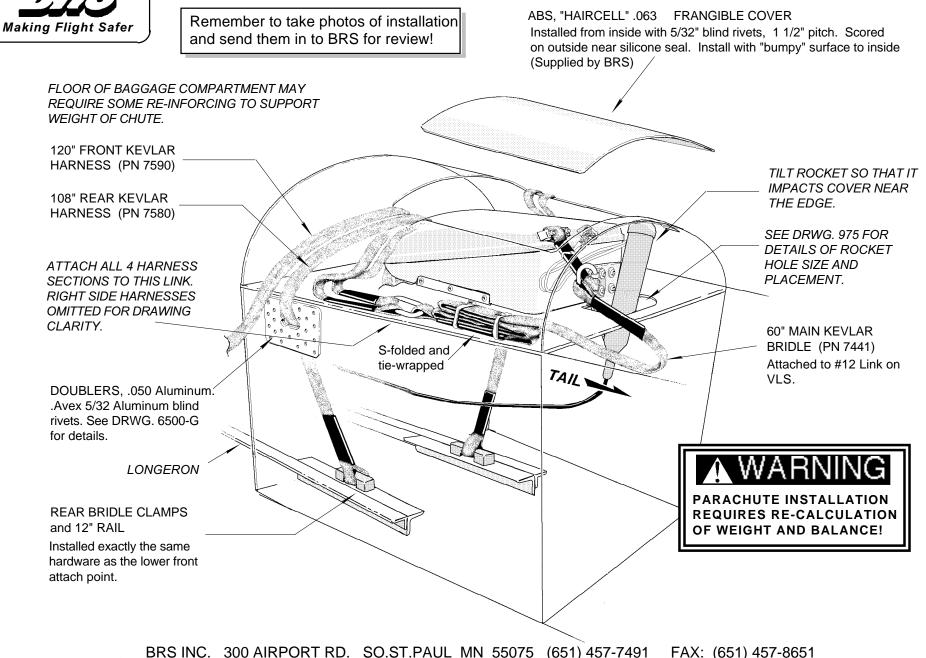


## **ZENITH 601, HARNESS STOWAGE**

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DRWG. 6500-D

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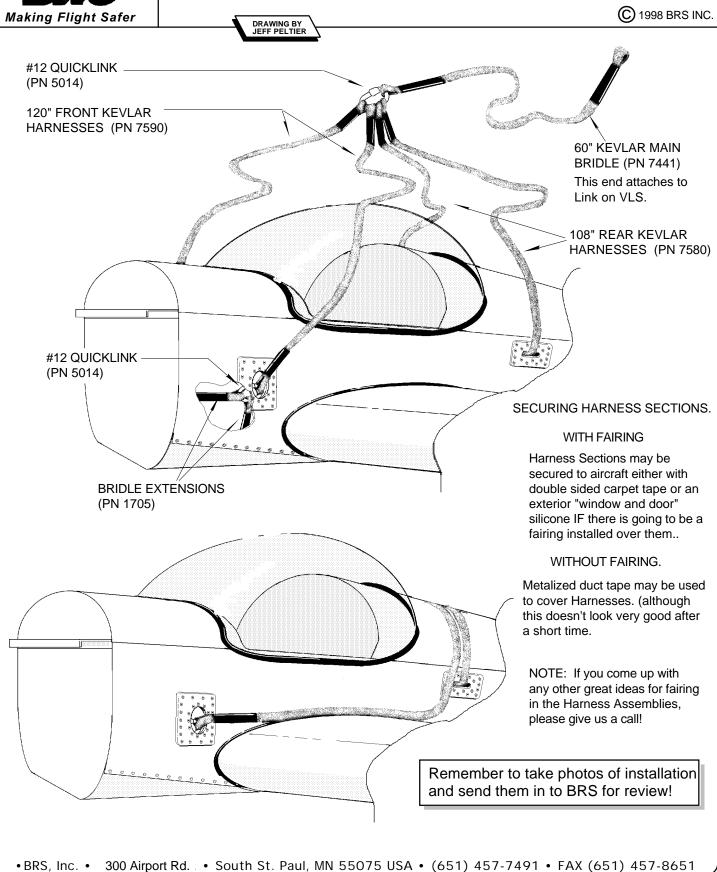




# **ZENITH 601, HARNESS ROUTING**

DRWG. 6500-E

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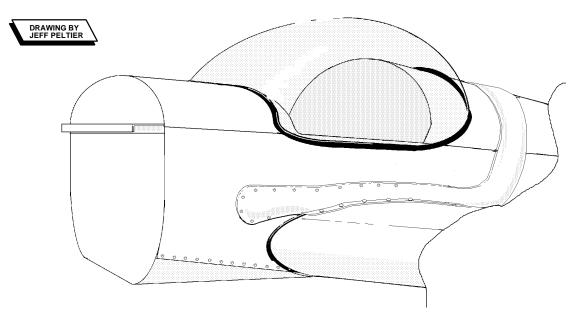


### **ZENITH 601, HARNESS ROUTING**

DRWG. 6500-F

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This example shows the Zenith 601 Harness Sections covered with a fiberglass fairing.

Being an aluminum skin design, the Zenith 601 does not neccessarily lend itself well to hiding the Harness Assembly for the BRS parachute system. We can only offer suggestions as to what we believe would work, considering the deploying parachutes ability to strip the Harnesses from their routing.

The easiest fairing method, and one that works well for the test flying, simply uses aluminum duct tape. This tape is readily available at most hardware stores that sell cooling and heating supplies. It works but doesn't look very good after awhile- and I believe it doesn't paint up well. This is something you may want to experiment with.

Another relatively easy fairing system would utilize commercially available aircraft dacron (Stits, Ceconite etc.) . This can be applied fairly easily. When doped, shrunk and painted can look fairly good if you take your time.

A lightweight (4 oz.) fiberglass fairing would most likely by the best bet for the best looking method assuming that your capable of doing this kind of work.

If you have ideas for other methods of covering the Harnesses on your aircraft, please give us a call and we'll talk about it. I don't believe theres any one perfect method.



Remember to take photos of installation and send them in to BRS for review!



# **ZENITH 601, INSTALLATION DETAILS**

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DRWG. 6500-G

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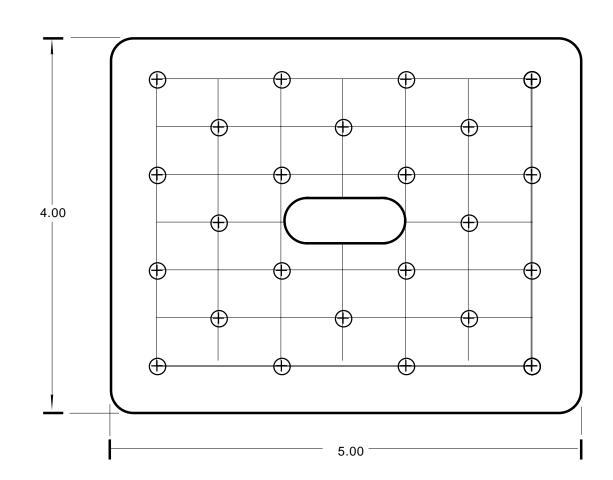
**REAR HARNESS DOUBLERS** 

Use this as template to fabricate 4 Rear Harness Doublers.

2 Harness Doublers will be used on each side of aircraft where rear Harness enters aircraft. Install a Doubler on the inside and outside of aircraft, sandwiching skin.

Lay out rivet pattern using template. Use drill size 21 for 5/32 rivets.

MATERIAL: .050 6061 Alum.



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