

BBF STAINLESS STEEL JET PACK HARNESS



INSTALLATION GUIDE

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1 FEATURES

CAUTION! The BBF Jet Pack Harness (Kit) is designed as a costume "prop" and should be used as such. Do not use as "fly", stunt or rescue harness. Improper use could result in injury or death.

- The BBF Jet Pack (JP) Harness, JP hooks and BBF replica U.S. Divers Co. buckle are constructed of 314 and 316 Stainless Steel (SS). The components of the harness frame are TIG welded for the exception of the crossbar, which is attached via SS rivets.
- The 2" strap loops are SS and full welded.
- The 2" shoulder straps are black Nylon webbing with integrated aircraft style floating-bar adjusters. Shoulder straps secure to the harness frame, and are length adjustable, via heavy duty metal tri-glide adjusters.
- The JP hanger straps are 1.5" heavy white Nylon webbing and sewn (double) to the shoulder straps. Length is adjustable via metal tri-glide adjusters. The JP loops are heavy duty metal, non-welded.
- The waist and lower shoulder straps are 2" black Nylon webbing, sewn (double) to harness frame strap loops.



2 PART LIST

Qty	Description
1	Harness Frame, w/ attached straps, adjusters and JP loops
2	Upper JP Hook
2	Backing Plate, Upper JP Hook
2	Lower JP Hook
2	Backing Plate, Lower JP Hook
10	6-32 x .625 SS Button Head Screw
10	6-32 SS Hex Nut
1	BBF Replica U.S Divers Co. Buckle (SS)

3 ADVANTAGES OF THE BBF JP HARNESS

First and foremost, thank you for purchasing my SS Jet Pack Harness Kit, and supporting my effort to supply other like minded costumers' high quality and durable items to enhance their costuming experience.

Your BBF JP Harness will afford you many hours of comfortably carrying a JP, far more than wearing a vest or strap type harness. The BBF Harness supports your JP at four points, rather than only the two afforded by the other harness types previously mentioned.

With the harness properly adjusted, the weight of the JP is held close to the body. The closer an item is carried to the body, the less leverage is applied. This aspect alone greatly reduces fatigue. The lower hooks also illuminate any back and forth and side to side swing of the JP, further reducing fatigue.

Aside from providing comfort and security, your BBF Harness will add a level of authenticity and realism you will enjoy for many years.

Thank you, again.

Terry Emelio
BBF

501st Legion ID: BH-4667
BooBoo Fett: The Dented Helmet



4 PREPARE HARNESS

4.1 Crossbar Modification

Note: The crossbar must be modified as indicated below to insure proper fit and function of the lower JP hooks.

4.1.1 Position the JP harness frame onto the JP. Align the lower edge of the crossbar with the lower edge of the JP. Note the crossbar is not flush against the JP body.

4.1.2 In small increments, bend the crossbar ends (see Figure 1) down until it lies relatively flush against the JP body. Figure 2

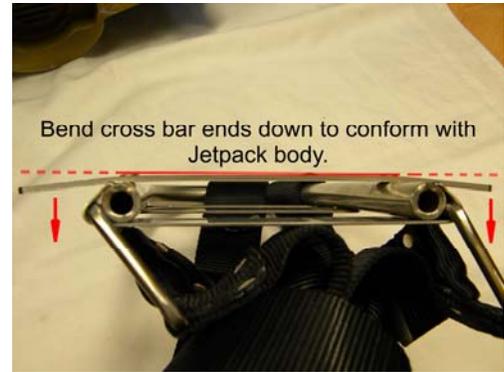


Figure 1



Figure 2

5 INSTALLING HOOKS TO JET PACK

NOTE: Use supplied hardware. Fit and tolerances were designed using the specifications of the supplied hardware!

5.1 Installing Lower Hooks

5.1.1 Mark a vertical centerline (method of your choosing) on the JP. Figure 3

5.1.2 Position the lower JP hooks onto JP, short side of hook against the JP body. The bottom edge of the long side (away from JP body) should be flush with the bottom edge of JP. Figure 3 inset

Hint: A straight edge inserted through both hooks will insure straight and parallel alignment.

5.1.3 Minimum distance between hooks is 5.7" (145 mm)

5.1.4 Mark the top and outer edge of both lower hooks onto the JP body. Remove JP hooks.

5.1.5 Place the lower hook backing plates onto the JP body and align with marks made in Step 5.1.4. Backing plate hole pattern is vertical.

5.1.6 Mark hole locations and drill holes through JP body.

5.1.7 Install lower hooks to JP using backing plates and supplied hardware. Figure 4

5.1.8 Check fit the harness frame. The crossbar should fit tightly into the lower hooks. If crossbar will not enter hooks, check the crossbar end angles. Bend as necessary. **Do not modify / bent lower hooks.**

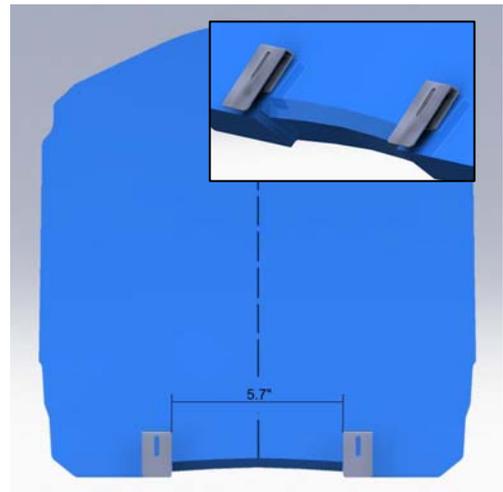


Figure 3



Figure 4

5.2 Installing Upper JP Hooks

Note: Back-plate shape and dimensions vary between brands.

Note: The upper JP hooks should be positioned low enough on the JP to allow the JP loops (and a portion of its strap) to be visible outside the back-plate. However, the upper JP hooks should *not* contact the back-plate before the body of the JP.



Figure 5

- 5.2.1 Measure and record the distance between the slots on your back-plate.
- 5.2.2 Position the harness onto the JP with the lower hooks engaged onto the crossbar. **Figure 6**
- 5.2.3 Position and center the back-plate between the JP and the harness. **Figure 6**

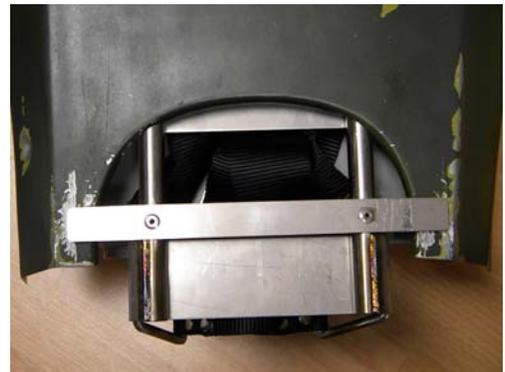


Figure 6

- 5.2.4 Place an upper hook into position on the JP as shown. Position the hook at approximately 1.125" (28mm) below the back-plate slot **or**, as low as possible without the hook contacting the plate. Mark the JP at the top of the hook. **Figure 7**

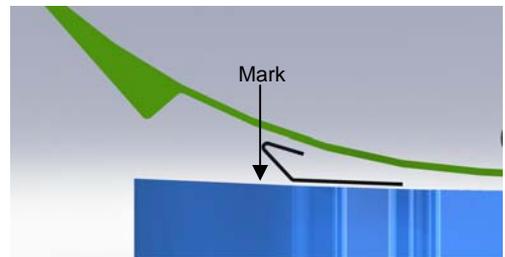


Figure 7

- 5.2.5 Remove harness and back-plate from JP.
- 5.2.6 Ensuring square from vertical centerline, transfer hook top mark to opposite side of JP body. **Figure 8**
- 5.2.7 Mark the distance between the back-plate slots onto the JP body at the Hook top marks. **Figure 8**
- 5.2.8 Position the upper hooks on the marks. Angle the bottom corners of the hooks inward (toward centerline) as shown. **Figure 8 inset**

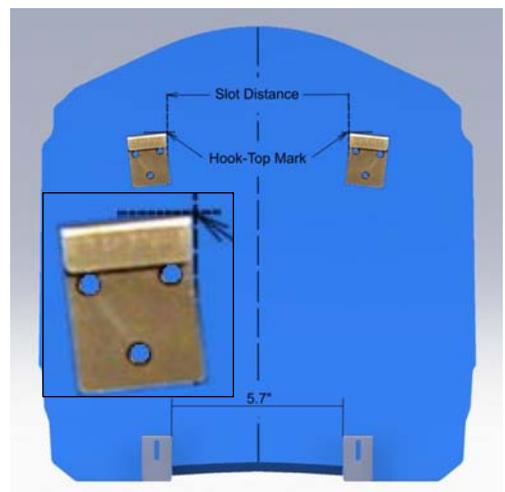


Figure 8

- 5.2.9 Mark hole locations, remove hooks and drill holes through JP body.
- 5.2.10 Install upper hooks to JP using supplied backing plates and hardware. Figure 9



Figure 9

6 INSTALLING DIVERS BUCKLE TO STRAP

6.1 Lacing Buckle

- 6.1.1 Lace the webbing as shown in Figure 10 - Figure 12.
- 6.1.2 Buckle position will be determined later.

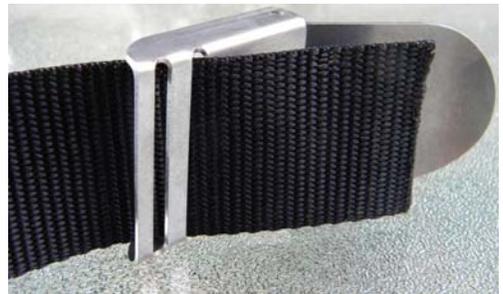


Figure 10



Figure 11



Figure 12

7 WEARING THE BBF SS JET PACK HARNESS

7.1 Positioning

- 7.1.1 Wearing your flight suit, put on the harness.
- 7.1.2 Thread the loose end of the waist belt through the Divers Buckle, remove slack from waist belt and close buckle.
- 7.1.3 Adjust the shoulder tension by pulling the lower shoulder straps through the floating bar adjusters.

Note: Shoulder strap tension should be comfortably snug. Do not over tension.

- 7.1.4 If required, the upper shoulder strap length may be adjusted via the tri-glides at the frame end of the straps.
- 7.1.5 If adjusting the upper shoulder strap length, ensure the hanger strap attaching (sewn) points are to the front of the body. Figure 13
- 7.1.6 With the shoulder straps properly adjusted, adjust the horizontal location of the Divers Buckle and re-tension the waist belt.
- 7.1.7 If desired, hand or machine stitch a small area of the belt, adjacent to the buckle to secure lacing.
- 7.1.8 Check to ensure the frame is centered and vertical on your back. Adjust shoulder strap tension as necessary. Figure 14



Figure 13



Figure 14

7.2 Modification to Flack Vest

Note: Assistance will be required during the following steps.

- 7.2.1 Wearing your flight suit and harness, don your vest and close it over the entire harness.
- 7.2.2 Vertical slits must be made in the vest to allow the crossbar ends to protrude. Mark and cut both sides of the vest on top to the crossbar on the outer edge of the frame tube. Figure 15
- 7.2.3 By feel, trough the vest, locate the shoulder straps. Mark and cut slits in the area shown. Slits should be high on the vest, just behind the center line of the top of the shoulders. Figure 16.
- 7.2.4 Open and reclose vest with hanger straps and cross bar ends through their respective openings.
- 7.2.5 Position the back plate as normally worn. Ensure lower edge is between vest and crossbar ends, and hanger straps are through back-plate slots. Figure 17

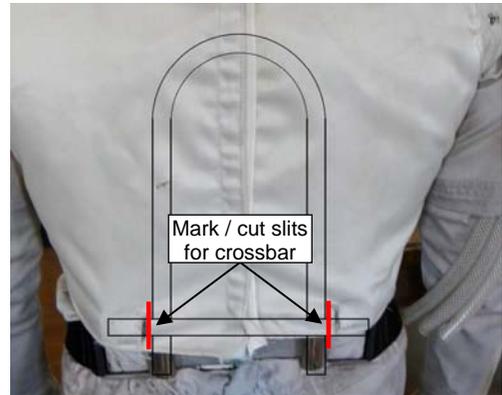


Figure 15

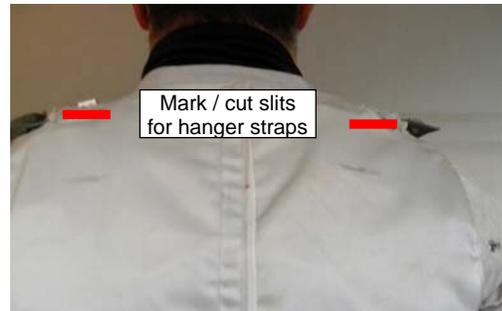


Figure 16



Figure 17

8 SECURING JET PACK

Note: Assistance will be required during the following steps.

8.1 Position JP onto Harness Crossbar.

- 8.1.1 Don your flight suit, properly adjusted harness, flack vest and back-plate.
- 8.1.2 Position the JP onto the harness crossbar. Figure 18



Figure 18

- 8.1.3 Ensure the lower JP hooks are fully engaged onto the crossbar. Figure 19



Figure 19

8.2 Adjust Hanger Straps

- 8.2.1 Engage upper JP hooks into hanger loops.
- 8.2.2 Hanger straps /loops should be tensioned enough to hold the JP snug against the back-plate, but not so tight as to lift and disengage the lower hooks from the crossbar. Figure 20
- 8.2.3 As necessary, remove JP and adjust hanger strap length until proper tension is achieved.



Figure 20

END