



RIGGING ADVISORY CIRCULAR

Issue Date: 01 September 1995

RAC No. 818 Rev. C

SUBJECT: JUMP SHACK **Racer/Elite** RSL RETRO-FIT

STATUS: ADVISORY

IDENTIFICATION: The **Racer/Elite** pack and harness assembly manufactured by the Jump Shack, DeLand Florida, USA.

BACKGROUND: The Jump Shack has available a **Racer/Elite** RSL Retro-fit Kit which may be purchased for US\$100 (plus US\$20 for airmail postage to Australia). This RAC provides installation instructions for the kit. *Note: Refer to RAC 824 for information on the **SST/Racer** RSL installation.*

On 4 July 1995 during routine servicing of an **Elite** retrofitted fitted with the RSL described in RAC 818 Rev. B the equipment was found to have a reserve ripcord pull force in excess of 22kg (50lbs). Subsequent inspection indicated the RSL installation to be the cause.

The kit allows a gap to develop between the junction of the 2 housings permitting the ripcord cable to bind on the elastic keeper. Both the housings and elastic keeper being at fault.

This defect was reported to the Jump Shack and on 12 July and they immediately released a new kit and instructions to overcome the deficiency which is detailed in this revision of RAC 818.

JUMP SHACK POLICY: The July 95 RSL Retro-fit Kit for the **Racer/Elite** includes the following parts:

- 1 ea. **Racer/Elite** RSL Retro-fit Instructions. (*this document*)
- 1 ea. Article - What you should know about RSLs.
- 1 ea. PVC Tube Housing Keeper 1.25" long .5" ID .11" Wall (P/N 19013)
- 1 ea. 6" long ripcord housing. (P/N 19307)
- 1 ea. Longer ripcord cable housing. (*see Appendix A - P/N 19301,03,06,08 or 09*)
- 1 ea. Pair of risers with RSL rings attached. (P/N 1014)
- 1 ea. **Racer/Elite** RSL. (P/N 1015)
- 1 ea. Small spool of 5 cord. (P/N 1935)
- 2 ea. 1" Square pieces 1" pile Velcro. (P/N 1946P)

Step 1. Remove the reserve canopy from the reserve container.

Step 2. Hot knife two 1" slots in the inside layer of the reserve container. (See Figure 1). Note: Use extreme caution when using a hot knife near the reserve container; do not cut the Type-8 diagonal harness webbing when cutting the left shoulder slot.



RIGGING ADVISORY CIRCULAR

Issue Date: 01 September 1995

RAC No. 818 Rev. C

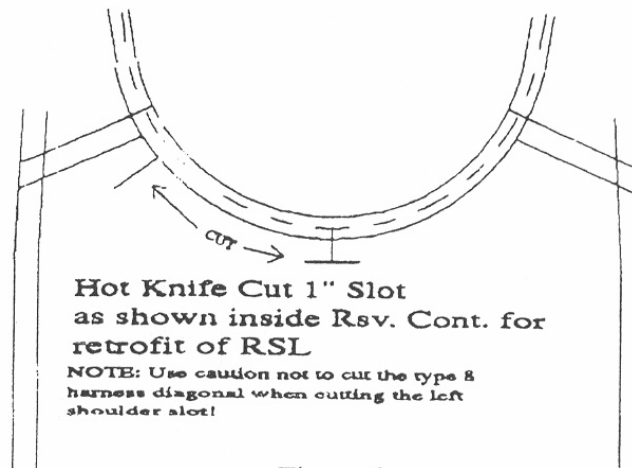


Figure 1.

Step 3. Insert one end of the long housing half-way into the 1.25" Long PVC Tube (P/N 19013) and one end of the short housing into the other end of the tube.

Step 4. Remove the existing one piece reserve ripcord cable housing and replace it with the new two piece reserve ripcord cable housing as described below in Steps 5 and 6.

Step 5. Insert the upper section of the two piece reserve ripcord cable housing through the back pad and reserve wall. Attach the upper housing to the reserve container by hand tacking it with waxed 5 cord in the same fashion as the original one piece reserve ripcord cable housing was attached.

Step 6. Determine the correct length of the bottom section of the two piece reserve ripcord cable housing using the attached matrix. (Appendix A) Then route the long section of the two piece reserve ripcord cable housing through the mudflap, over the shoulder padding, and through the pre-cut slot at the shoulder. Align one end of the long reserve ripcord cable housing with the bottom edge of the mud flap and attach it to the inside of the mudflap at or near the chest strap by hand tacking it with waxed 5 cord in the same fashion as the original one piece reserve ripcord cable housing was attached. The other end of the bottom reserve ripcord cable housing should be joined to the top section with the PVC Tubing. (see Figure 3. [sub-box])

Step 7. Sew the 1" square pieces of pile Velcro to the underside of the yoke flap. Aligned them to the edge of the binding tape in line with the grommet. (see Figure 2 over page)



RIGGING ADVISORY CIRCULAR

Issue Date: 01 September 1995

RAC No. 818 Rev. C

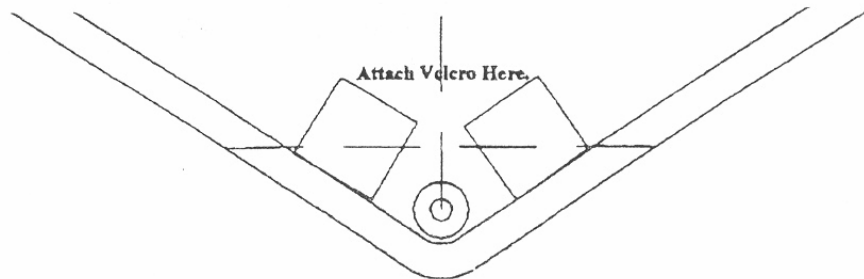


Figure 2.

Step 8. Pack and seal the reserve canopy. Attach the new main risers (with the RSL Rings) and the main canopy.

Step 9. Install and route the RSL as follows. **Note: It is important to follow these directions exactly to avoid routing the RSL under the yoke flap.** Pass one end of the RSL under the 6" long portion of the ripcord housing. **DO NOT PASS THE RSL UNDER THE RESERVE RISERS OR THE YOKE FLAP OF THE RESERVE CONTAINER.** (See Figure 3.)

| *APF note: the RSL is routed outside the reserve container.*

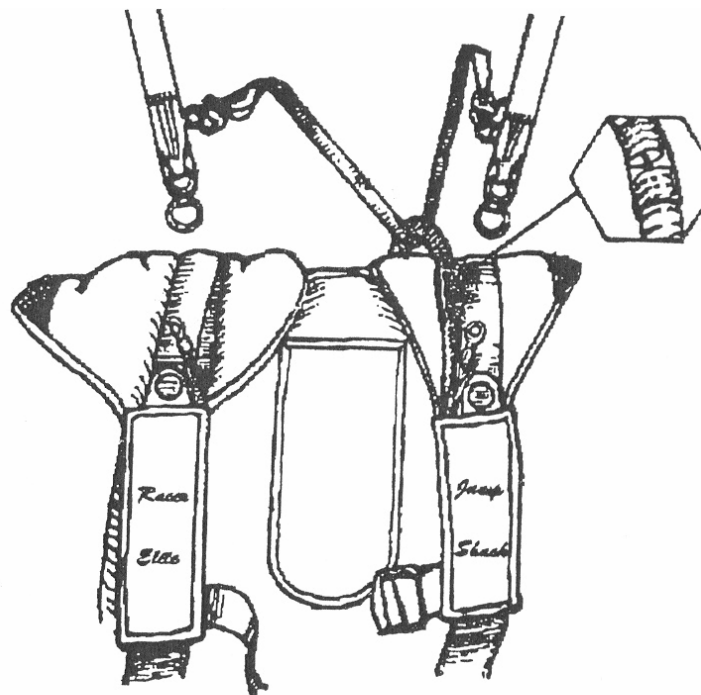


Figure 3.



RIGGING ADVISORY CIRCULAR

Issue Date: 01 September 1995

RAC No. 818 Rev. C

Step 10. Attach each end of the RSL to the RSL rings on the risers with the snap shackles. (see Figure)

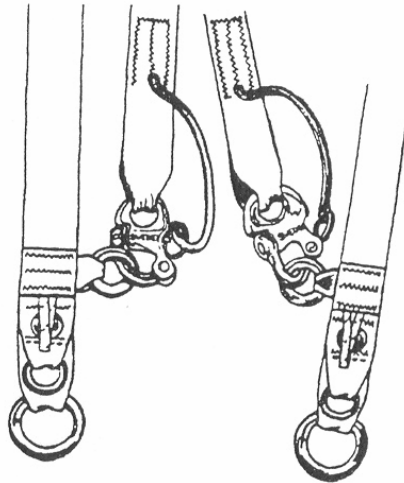


Figure 4.

Step 11. Mate the pile Velcro on the yoke to the hook Velcro on the RSL and stow the remaining RSL length under the yoke flap above the reserve freebag. (see Figure 5.)

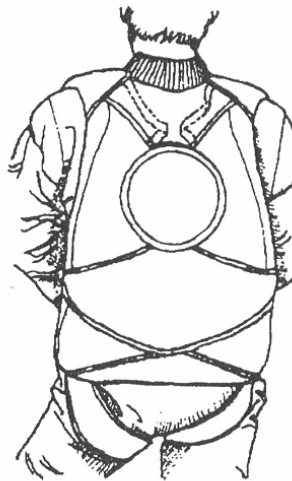


Figure 5.

Step 12. If you have any questions regarding these instructions or any other Jump Shack product, please feel free to call, fax, or write to us with your question. We look forward to serving you.



RIGGING ADVISORY CIRCULAR

Issue Date: 01 September 1995

RAC No. 818 Rev. C

Option #1: Route the RSL as described in the preceding.

Option #2: Route the RSL under the 6" section of the reserve ripcord cable housing and loop it so that both ends of the RSL connect to one riser (left or right).

Option #3: Cut the factory RSL in half and attach an RW-3 size ring (smallest ring of large 3-ring set) to the running end of the RSL by 3 lines of zig-zag stitching. Then route the RW-3 ring over the 6" section of the reserve ripcord cable housing and connect the other end to one riser (left or right).

Appendix A

Racer/Elite Reserve Ripcord Cable Housing Requirements (rev. July 1995)

Each rig with a yoke height of less than 2 inches (measured from top of stiffener) requires a 6" long reserve ripcord cable housing in the upper location and one of the following lengths (depending on the harness size and mudflap/chest strap combination) in the lower location. Earlier *Elites* with medium and larger harnesses used a constant 12" lower and varied the upper housing length. In this situation use the housing length shown in () in the upper location.

| Harness Size - Mudflap/Chest Strap | XS | S | M | L | XL |
|------------------------------------|-----|-----|-----------|-----------|-----------|
| Short/High | 12" | 14" | 16" (10") | 16" (12") | 16" (12") |
| Short/Low | N/A | 16" | 17" (12") | 18" (14") | 18" (14") |
| Long/Low | 14" | 16" | 17" (12") | 18" (14") | 18" (14") |
| Long/Med. | 14" | 16" | 17" (12") | 18" (14") | 18" (14") |
| Long/High | N/A | 16" | 17" (12") | 18" (14") | 18" (14") |

Note: If you need assistance in determining the correct long reserve ripcord cable housing length, call us at the Jump Shack. We can help you determine the correct length if you provide the harness/container serial number.

APF POLICY:

Where a *Racer/Elite* is fitted with the RSL described in RAC 818 Rev. B the equipment shall be removed from service until it has been modified or replaced with a RSL which complies with RAC 818 Rev. C.



RIGGING ADVISORY CIRCULAR

Issue Date: 01 September 1995

RAC No. 818 Rev. C

Where a **Racer/Elite** RSL is to be initially installed, it shall be installed in accordance with the manufacturer's instructions (contained in this RAC) by an APF Rigger.

The APF recognises parachutists have the right to incorporate Jump Shack Option #2 or #3 as an alternative to Option #1.

EFFECTIVE DATE: | Immediately

AUTHORITY: Jump Shack:
John Sherman, Jump Shack
1665 N. Lexington Ave.
DeLand, FL 32724-2187 USA
Ph 0011-1-904-734 5867
Fax 0015-1-904-734 8464

APF: Director Riggers

DISTRIBUTION: All APF Packer A's
All APF Riggers