



Deutscher Fallschirmsportverband (DFV) e.V.  
Deutscher Aero-Club (DAeC) e.V. Luftsportgerätebüro  
Verband unabhängiger Prüfer von Luftsportgerät e.V.

An alle Vereine /Schulen/ Fallschirmtechniker / Fallschirmwarte

## **SICHERHEITSMITTEILUNG für Gurtzeuge**

herausgegeben: 29.05.2013

Nummer: 05/2013

Bezug: SERVICE BULLETIN #20132005 von UPT

Betroffene Muster: 1. Alle Tandem Vector und Sigma Tandem Systeme, hergestellt vom „The Uninsured Relative Workshop, Inc.“, bei denen ein Passagiergurtzeug, hergestellt vom “Uninsured United Parachute Technologies LLC”, verwendet wird.  
2. Alle Sigma Tandem Systeme die von “Uninsured United Parachute Technologies, LLC” hergestellt wurden.  
3. Alle Tandem-Passagiergurtzeuge die die Modellbezeichnung TV3-SH auf dem orangen Warnaufnäher aufgedruckt haben.  
**Im Klartext:** Das sind alle Vector - und Sigma – Passagiergurtzeuge, die einen Becken - und Bauchgurt haben!

Status: **verpflichtende Maßnahme**

Durchzuführen bis: **spätestens zum 1. Dezember 2013**

Maßnahmen: Es sind bei allen betroffenen Pax-Gurtzeuge die Modifikation durchzuführen. **Den Umbau dürfen nur Fallschirmtechniker durchführen!!!**

Dokumentation: vermerkt im Dokument des Pax-Gurtzeuges die Durchführung der SM  
„ **SM-05/2013: Pax-Y-Strap durchgeführt**“  
**Datum , Name , Unterschrift ,Stempel**

Bemerkungen: In der Anlage findet Ihr die Mitteilung und die original Einbauanleitung. Der Umbau-Kit kann bei UPT bestellt werden

Verteiler: Techniker, Warte, Händler, Vereine, Sprungzentren.

Dresden , den 29.05.2013

Referat Technik DFV

Ralf Homuth - Geschäftsstellenleiter VuPL

# UNINSURED UNITED PARACHUTE TECHNOLOGIES, LLC.



**SERVICE BULLETIN:** #20132005

**ISSUE DATE:** May 20<sup>th</sup> 2013

**SUBJECT:** Retractable Y-Strap Modification (Part#043-001-005) to Tandem Student Harness (Model TV3-SH-Part#043-001-001)

**COMPLIANCE:** Mandatory

**IDENTIFICATION:**

1. All Tandem Vector and Sigma Tandem Parachute Systems manufactured by The Uninsured Relative Workshop, Inc., on which a Tandem Student Harness manufactured by Uninsured United Parachute Technologies, LLC is used.
2. All Sigma Tandem Parachute Systems manufactured by Uninsured United Parachute Technologies, LLC.
3. All Tandem Student Harnesses which have the Model #TV3-SH printed on the orange warning label.



**APPLICABLE**

Harnesses that **do** have horizontal back and belt straps (Belly band)

**BACKGROUND:** At Uninsured United Parachute Technologies, LLC. (UUPT), we are always striving to produce the best and safest Tandem system available.

With regard to the student harness, the present design has been in use for over 13 years. Based on field experience, we know that, if it is fitted and adjusted correctly, it is highly unlikely that a student can fall out of the harness. However, we also know that this type of incident has happened once before with a Tandem Vector harness, and we have had two incidents where students came close to falling out.

In each of these cases, it was determined that the harness was grossly misadjusted. But, no matter what the cause, this scenario is unacceptable. To further minimize the risk of such an event, UUPT has developed the "Retractable Y-Strap Retrofit". This Y-Strap modification has been in use for several years with only a slight decrease in student comfort, in some cases. The Retractable Y-Strap was designed to allow the student to still lift their legs for landing.

**COMPLIANCE:** UUPT now mandates the use of a Retractable Y-Strap Retrofit on all affected tandem student harnesses.

Of course, both prior to and after the retrofit, it is imperative that each tandem instructor ensure that the tandem student harness and the instructor harness are properly adjusted, prior to each tandem jump, and that the proper adjustment is verified again just prior to exiting the aircraft.

Retrofit and installation instructions are available upon request from UPT or can be downloaded from our web site at the following location:

**COMPLIANCE DATE:** The modification must be completed no later than December 1st, 2013. After that date, no tandem student harness which does not have the Y-Strap Retrofit installed is approved for use on any jump.

**COMPLIANCE PROCEDURE:** In an effort to reduce the financial impact on system owners, UUPT is selling the Y-Strap Retrofit components kit at its cost. The cost of a Y-Strap Retrofit components kit is \$50.00 (Part#043-001-005). It can be installed by any certificated rigger with minimal effort. (Reference INSTRUCT-020-Student Harness-Retractable Y Strap Installation attached)

To order the Y-Strap Retrofit component kit, or if you have any questions, please contact Mike Maguire, at Uninsured United Parachute Technologies, LLC, 1645 Lexington Avenue, Deland Florida 32724, Telephone: 386-736-7589; Fax: 386-734-7537; Email: [mike@uptvector.com](mailto:mike@uptvector.com).

**AUTHORITY:**

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Telephone: +1 386 736 7589  
FAX: +1 386 734 7537

**DISTRIBUTION:**

- All identified owners of Tandem Vector and Sigma Tandem Equipment (to be notified by publication and through our dealers).

- All United Parachute Technologies, Inc. dealers.
- Parachute Industry Association.
- All identified parachuting publications.
- All identified parachuting Federations and Associations
- All National Aero Clubs, Parachuting Section.
- IPC Technical Committee.
- FAA MIDO
- DGAC-France

**REVISIONS:**



## STUDENT HARNESS-RETRACTABLE Y STRAP INSTALLATION



## ENGINEERING DEPARTMENT

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INSTRUCT.STUDENT HARNESS-RETRACTABLE Y STRAP INSTALLATION Rev 2.doc

**Outline:**

This document covers two major areas:

1. Retrofit instructions for preparation of Y strap installation on Student Harness's.
2. Installation of the Y strap.

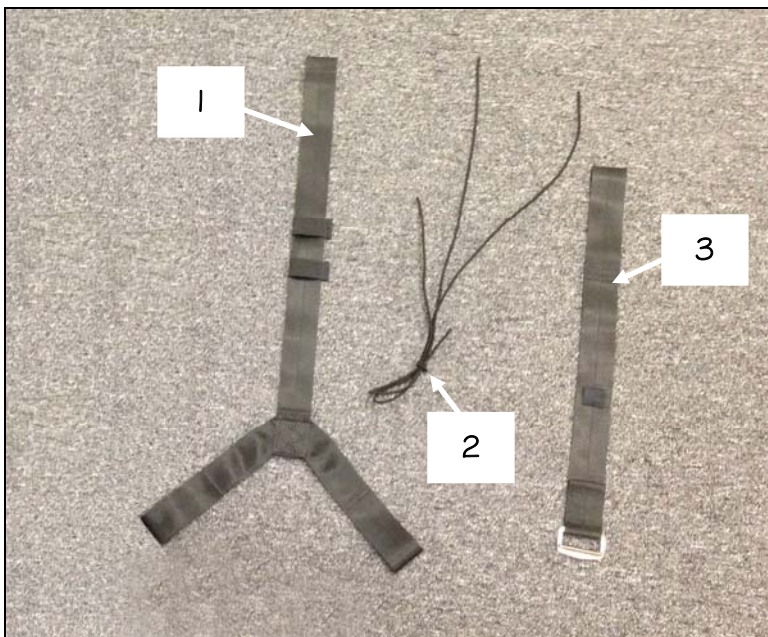
**Who can do this work:**

Qualified Senior Rigger, Master Rigger or Foreign equivalent

**Parts:**

Purchase UPT Part Number:

043-001 -005 TANDEM STUDENT HARNESS-RETRACTABLE Y STRAP



The Y Strap system includes the following components:

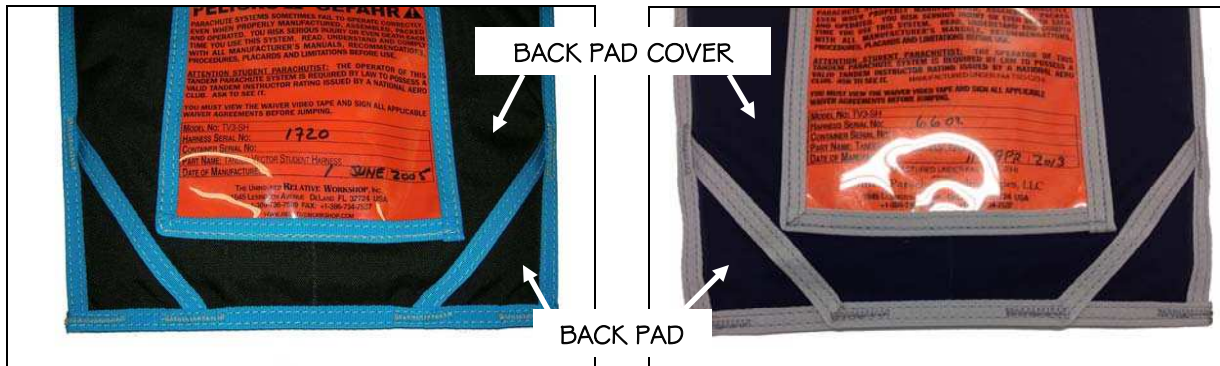
1. Upper Y Strap
2. Bungee cords – 31" & 38"
3. Lower Y strap assembly with elastic keepers.

**Tools:**

Seam ripper  
Rifle Cleaning rod or similar rigging tool  
Snips  
Scissors  
Binding machine 301  
Bartacker or Zigzag 304-308  
Hot knife  
Basting Tip  
Clamps

### Information:

The Tandem Student Harness has 2 variations in back pad construction method. The specific area of this difference is on the harness back pad cover. Each one is compatible with the Y strap. The two versions are described below. The first part of this document will focus on modifying the first version. The second version requires no additional work.



#### Version 1:

The back pad cover has the bottom edge captured in the binding tape at the bottom of the back pad.

#### Version 2:

The back pad cover has the bottom edge taped. It is then aligned with the bottom taped edge of the back pad with 2 bar tacks installed. This back pad was designed for easy installation of the Y strap.

### Before you begin:

Unthread the diagonal back straps from the lower junctions and remove the elastic keepers. This applies to both versions.

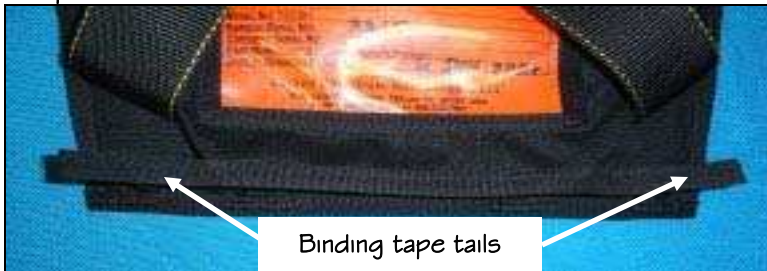
For Back pad Version 1 only:

## Step 1



Using scissors or hot knife, carefully separate the back pad cover below warning label at the binding tape edge.

## Step 2

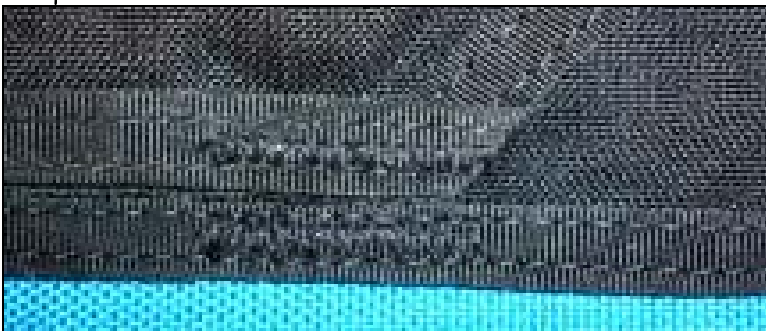


Tape the raw edge of the back pad cover, leaving approx  $\frac{3}{4}$ " tails.



Fold back the tape ends and tack down using a basting tip or hot glue as shown.

## Step 3



Install 2 bar tacks at the corners of the back pad cover.

The back pad is now ready for Y strap installation

## Install the Y strap

### Step 1



Thread one of the diagonal straps back through the back pad cover, exiting out of the other side.



Pull the strap all the way out as shown.

### Step 2



Identify the adjuster strap which is part of the Y strap assembly. Make sure both the bungee loops are facing down wards.



Thread the loop end inside the opening at the bottom of the back pad cover.

**Step 3**

Exit the loop at the same location as both the diagonal back straps. Thread each diagonal strap through the loop from different sides making sure there are no twists.



Carefully return the diagonal through the back pad cover to its original location, feeding the loop of the Y Strap adjuster with it.



**NOTE:** It is important that the configuration of the webbing under the back pad cover is correct.

\*Picture shows a lifted back pad cover for instructional purposes only.

**Step 4**

Identify the bungee cords; 2 pieces of 1/8" black braided shock cords that are included with the kit.

1 x 31"

1 x 38"

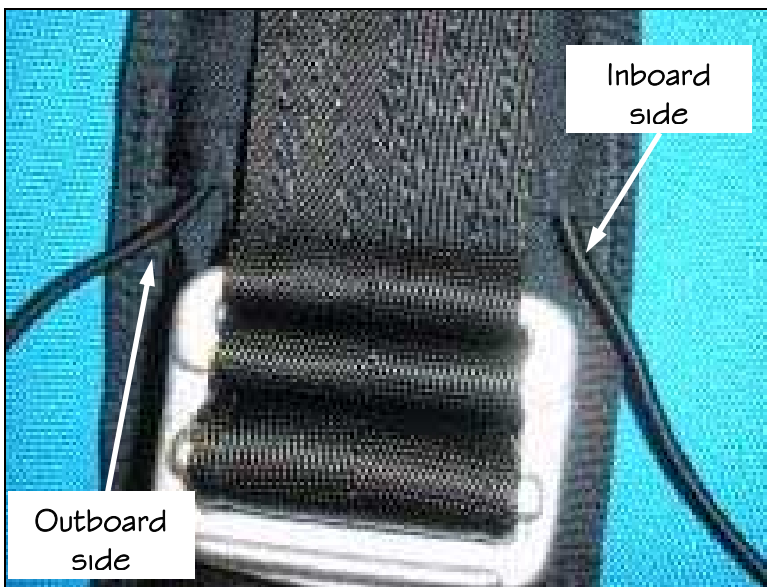
Tie one end of each together with an overhand knot as shown. The knot **MUST** be cinched down tight

**Step 5**

Locate a rifle cleaning rod of similar rigging tool. Pass the rod up through the back pad starting the opening where the adjuster strap is located.

Exit the rod from under the cover at one of the shoulder pad area's as shown. Exit on the outboard side first.

**NOTE:** The short bungee (31") will be installed inboard side and long bungee (38") will be installed outboard side.



## Step 5 (Cont)



Attach the **38"** bungee to the rod and pull down through the back pad as shown exiting on the outboard side of yoke.

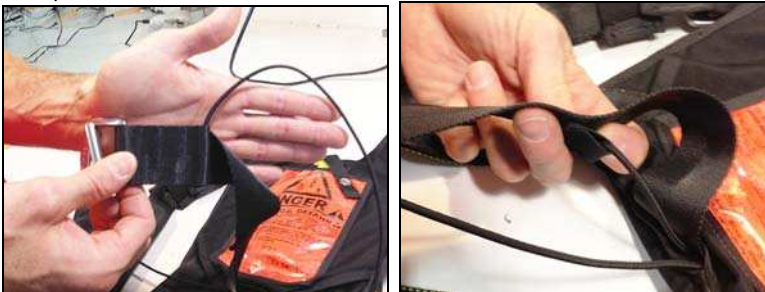
The knot should remain in the same side and bottom out against the cover as indicated.



Pass the rod back through the back cover, exiting on the inboard side. Attach the **31"** bungee and repeat.

Make sure that the Bungees are **UNDERNEATH** the diagonal webbing.

## Step 6



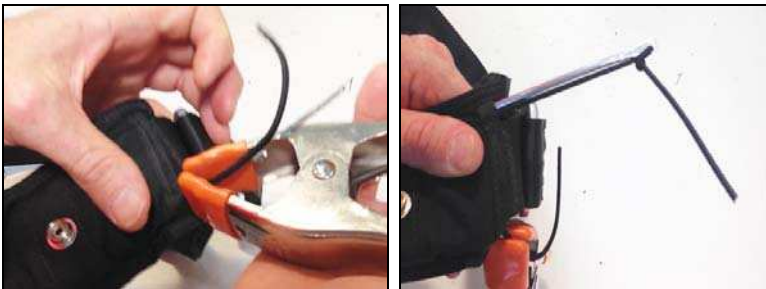
With both bungees installed under the cover, they are now attached to the Y strap adjuster assembly. Thread the **38"** bungee through the Type-8 Loop closest to the adjuster as indicated and the **31"** through the Type-4 loop.



## Step 7



Using the cleaning rod, the other ends of the bungees are now installed into the back pad cover, exiting on the other shoulder pad.



Secure the first bungee you install with a clamp or something similar so stop it from retracting back inside.

As before, make sure the short bungee (31") will exit on the inboard side and long bungee (38") will be exit on the outboard side.

## Step 8



Before the bungees are tied together, make sure the adjuster is located correctly so the hardware sits/rests just below the bottom edge of the back pad.

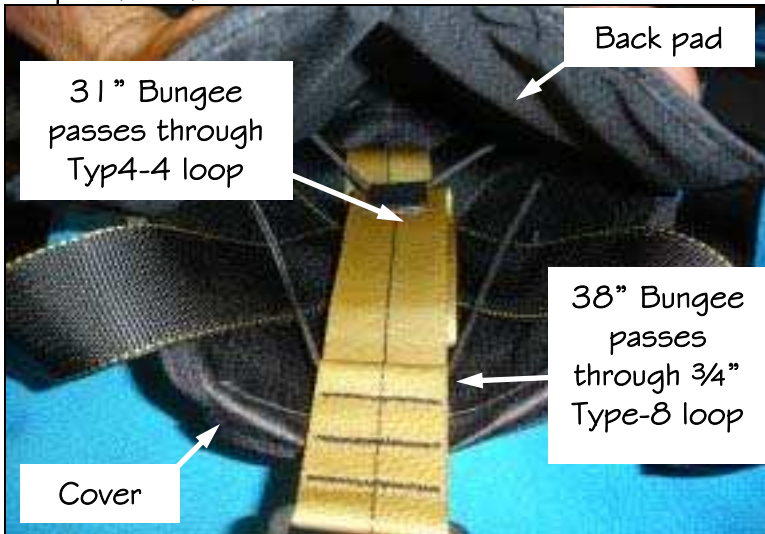


The ends of the bungees are now tied together using an overhand knot. You may have to do this step multiple times to get the adjustment of the adjuster correct. The knot **MUST** be cinched down tight



Once the adjustment is set, trim any excess bungee cord leaving 1 1/2" to 2" as shown.

## Step 8 (Cont)



**NOTE:** The configuration of the Bungees and the Type-8 shows how it "S-folds" behind the diagonal straps.

\*Picture shows a lifted back pad for instructional purposes only.

## Step 9



Reconnect the diagonal back straps to the lower harness. Do not forget the elastic keepers removed earlier.

## Step 10



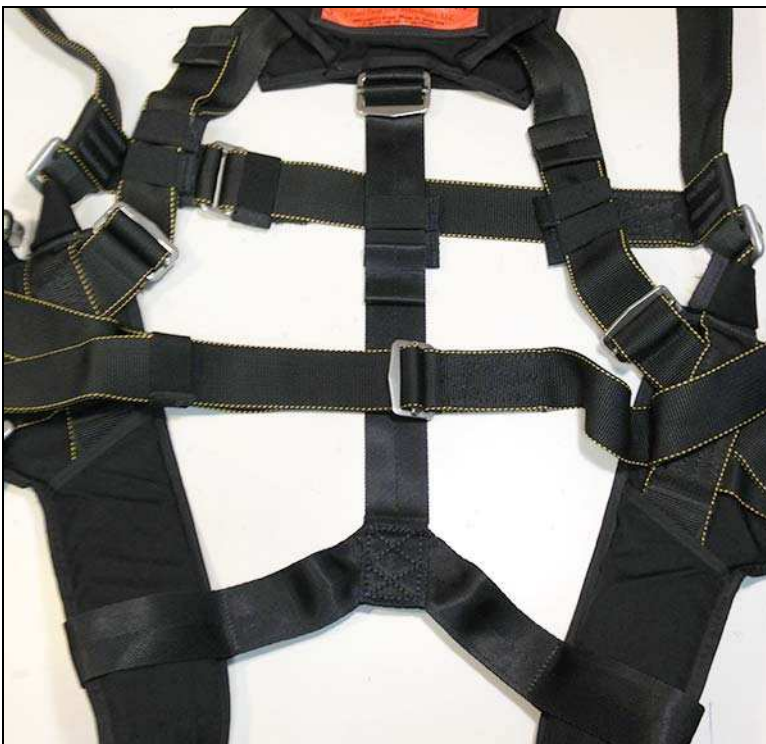
The lower part of the Y strap is now installed. Thread the running end through the adapter and back through the 2 elastic keepers as shown.

**Step 10 (Cont)**

Disconnect the leg straps of the harness and thread the entire leg pad through the loop of the Y strap. Repeat this on the other side.



Confirm that the Y strap functions by extending and releasing. If there is any issue, double check that the bungees or straps are not entangled or crossed incorrectly.



The leg straps should be reconnected, completing installation of the Y strap.

The horizontal back strap must pass over the Y strap