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Sigma Tandem Reserve Riser compatibility and modification

To ensure proper compatibility, the correct Sigma Tandem reserve riser configuration must be used for installation of UPT approved tandem reserve canopies

A certified FAA Master Parachute Rigger (or foreign equivalent) is approved by UPT to perform a change of configuration, following instructions outlined in this document.

Each instruction is for a single reserve riser of 4 total. Contrasting stitch color is used for illustration purpose throughout.

Content:

Tools/materials required:

Pencil or chalk
Seam ripper and/or needle nose pliers
Scissors
2½" Type 12 tape x 4 (Change from Rapide link to boxed L-bar configuration only)
Harness machine (Change from Rapide link to boxed L-bar configuration only)

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Reserve riser configurations

Original L-bar

4-point with combined ¾ box pattern

Only for L-bar and
VR360 (VTC-xxxR) Tandem Reserve Canopy

Rapide link

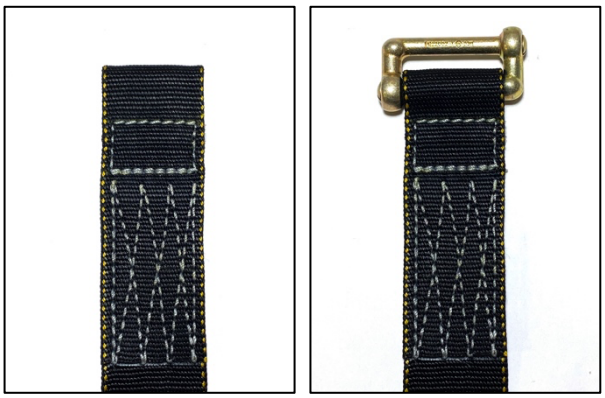
4-point pattern

Only for #6 Rapide link and
SR-340 / SR-370 Tandem Reserve Canopies

Boxed L-bar

4-point with separate box pattern

Only for L-bar and
VR360 (VTC-xxxR) Tandem Reserve Canopy



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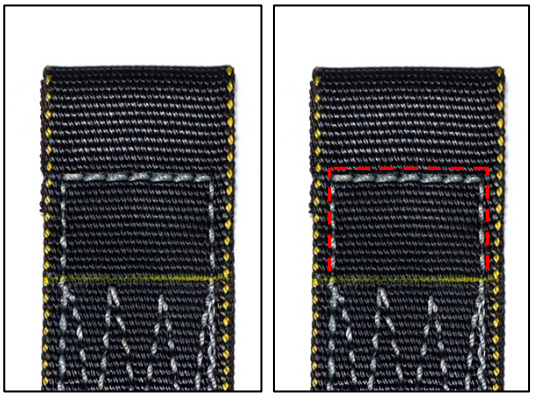
Change from original L-bar to Rapide link

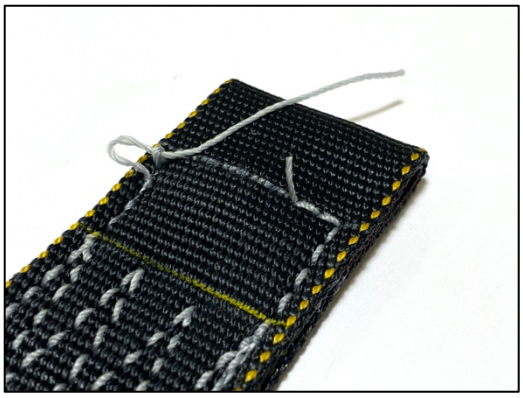
Draw a line across reserve riser, ⅛" above the 4-point pattern

Identify the top part of the ¾ box above the line to be unpicked and removed (marked in red)



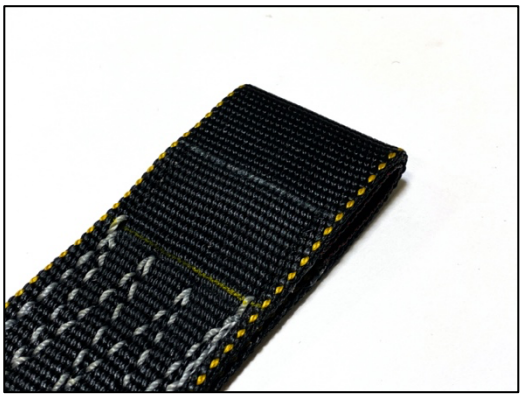
Unpick the ¾ box stitching, with caution not to damage or pull out any part of the webbing

Starting at the top center is helpful for capturing an initial stitch, especially on matching thread and webbing colors

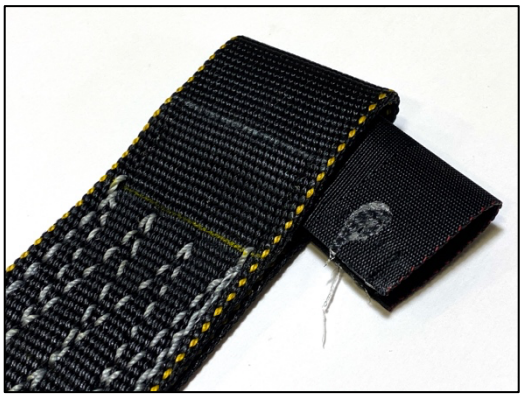


Trim threads at the drawn line and clean up both sides of reserve riser

Verify that no webbing is damaged and the 4-point is intact



Remove and discard T12 buffer



Remove any glue residue remaining inside riser

Fold in sides of reserve riser end to allow installation of #6 Rapide link

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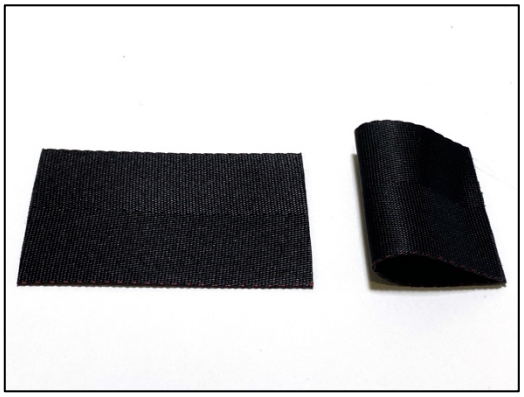
Change from Rapide link to boxed L-bar

Cut Type 12 tape buffer, 2½" long

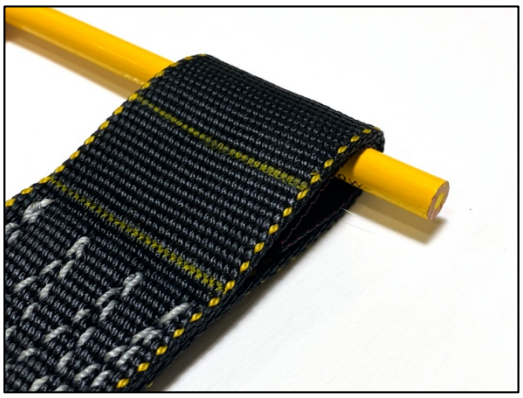
Fold the buffer in half to a tear drop shape, lining up raw edges



Draw 2 lines across reserve riser;

- 1" from riser end
- ⅛" above 4-point pattern

Insert Type 12 buffer into reserve riser, and secure in place fully up against riser end using hot glue/tape



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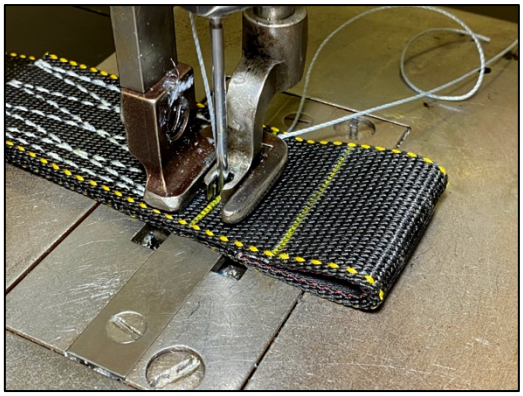
A separate box stitch is sewn onto reserve riser end following the drawn lines, as indicated in red

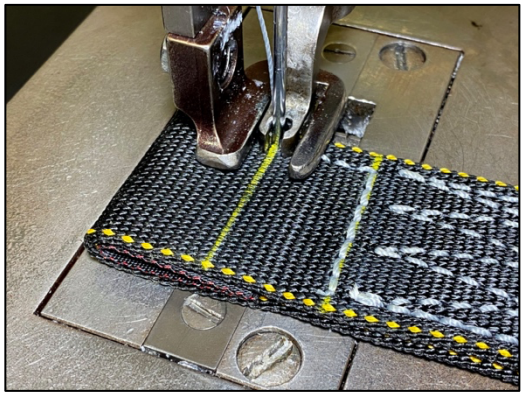
The box stitch must be sewn with Nylon 5-cord thread

Start on the drawn line ⅛" above, and clear of, 4-point stitch pattern



Ensure that Type 12 buffer is captured by top part of box stitch

Complete box stitch by overstitching onto the first stitch row



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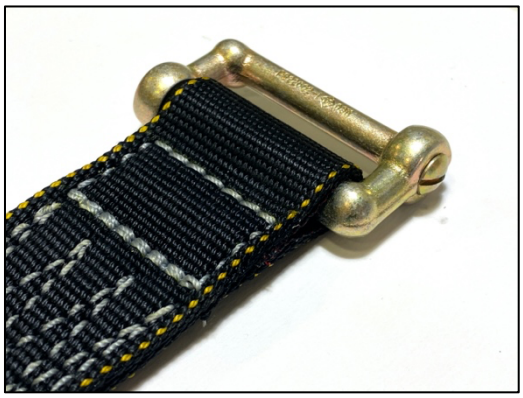
Example of 4-point and finished separate box stitch

Open buffer to insert and attach L-bar onto riser



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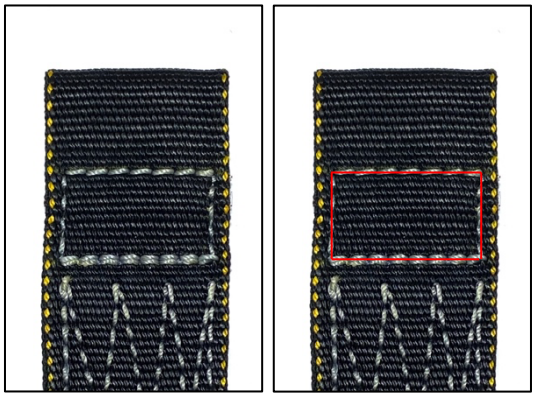
Change from boxed L-bar to Rapide link

Identify the separate box stitch to be unpicked and removed (marked in red)

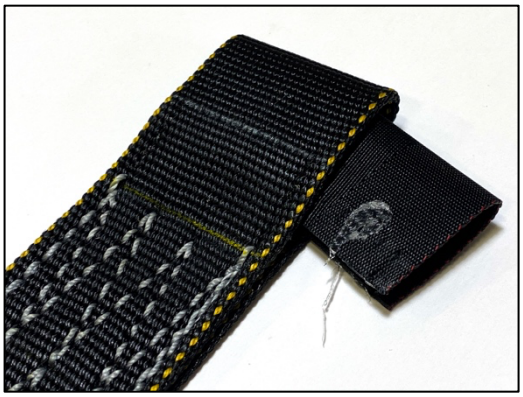
Unpick the box stitching, with caution not to damage or pull out any part of the webbing



Verify that no webbing is damaged and the 4-point is intact

Remove and discard T12 buffer

Remove any glue residue remaining inside riser



Fold in sides of riser to allow installation of #6 Rapide link

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