Packer's Checklist

CYPRES RIGGER'S PACKING CHECKLIST GUIDE

The following is not meant to be used as an Installation Guide when installing Cypres in a rig without a factory or other approved setup. For detailed instructions on retrofit installation, please refer to **Airtec's Cypres Rigger's Guide for Installation** consisting of a Book, Video Tape, and Parts Kit available from Airtec and Cypres Dealers.

This Packing Checklist Guide is designed to aid the rigger in determining if an existing installation is proper for the particular harness / container system, and if the Cypres components are installed and located in the correct places.

The following installation requirements and component placement information are the results of detailed testing. There is much more to be considered than esthetics and practical regards. If one of the Cypres components, especially a cutter, is installed in a location other than that approved, the result can be damage to the Cypres, interference with normal reserve deployment, or a very slow opening of the reserve container when a Cypres cutter fires.

Therefore, if an installation is encountered during your inspection and repack duties which conflicts with the enclosed Checklist requirements, please contact Airtec prior to proceeding.

The particular harness / container manufacturer should also be able to provide some help and clarification.

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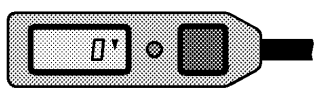


GENERAL INSTRUCTIONS

Please refer to the Cypres Users Guide for generic instructions and guidelines concerning installation and packing.

Please pay particular attention to the instructions concerning tying the closing loop knot, and lubrication of the closing loop with the special Silicon Gel.

Make sure that the seal on the cutter cable connector cover located on the Processing Unit is intact and undisturbed. The Cypres unit must be returned to Airtec or SSK Ind. if the seal has been disturbed.

In general cutters that have fired must be replaced by Airtec or SSK Ind. unless they are not provided with a **plug on the cutter cable**. This new type cutter system is replaceable by every rigger in the field. In doubt contact Airtec.

Check that it has not been more than four years from the date of manufacture or last factory maintenance. Refer to the date(s) on the label(s) on the Processing Unit.

The battery must be replaced after two years **or** 500 jumps **or** if the low battery error code is encountered during self-test whatever comes first.

Only use original Cypres loops! Shorten the loop until the pin has a tight fit; loop has to run straight from washer to pin!

The Cypres reserve-closing-system

Except for the following special instructions, use all other regular packing procedures described by the rig manufacturer.

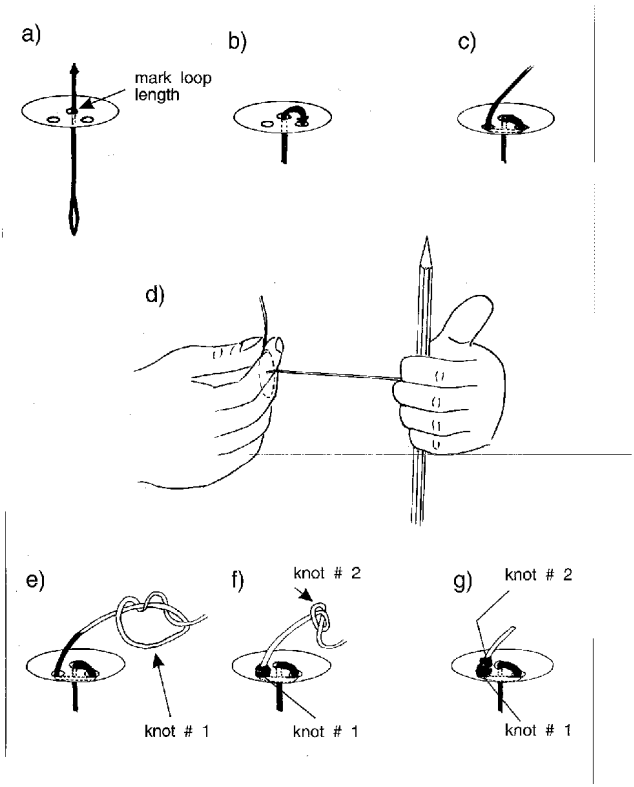
In order to avoid wear between loop, bottom disc and knot where the loop attaches to one-pin containers, we have developed a new technique for affixing the loop. This technique utilises a metal disc with three holes together with a special knotting technique.
The preparation of the loop will not take significantly longer than the procedure previously used, with the added advantage that the entire loop system will have a higher tensile strength.

Follow these instructions for attaching the loop to the disc:

a) pass the loop cord through the central hole and mark the desired length with a pen.
b) rout the cord back through one of the outside holes.
c) and upwards again through the third hole
d) hold to the disc between the index and the second finger and trap the spare cord with the thumb. Pass a pen through the loop and sharply pull the whole loop cord twice to **prestrech (!)** the material.
e) Re-align the pen mark with the disc and knot the cord as shown.
f) make one additional knot to prevent slippage.

sketch ⇨ ⇨

Sketch of loop attachment:



The looped end of the Cypres loop should be impregnated with silicone except for 1/2" (1 cm) next to the disc. Treat with silicon after knot is tied to avoid slippage.
Running loops should be impregnated completely.
To protect the integrity of the fingertrapped or spliced section of adjustable loops, these should not be treated with silicone (e.g. quickloops, loops for 1-pin Pop Tops).

RIG SPECIFIC INSTRUCTIONS

Rig	Detail Notes
ACE	1, 5, 6, 7, 9, 11, 18, 31
Atom or	1, 5, 7, 11, 39, 18, 24, 33, 31 1, 5, 7, 12, 17, 25, 33, 31, 37
Brief Case	1, 6, 36, 14, 35, 31
Campus	1, 5, 6, 7, 9, 11, 18, 31
Centaurus	1, 6, 9, 11, 18, 31
Chaser	1, 10, 13, 19, 21, 27, 31
Combination Tandem	1, 6, 9, 14, 17, 31
Dolphin	1, 6, 13, 19, 31, 38
Dual Hawk Tandem	3, 6, 7, 15, 20, 23, 31
Eclipse	1, 6, 7, 12, 17, 25, 31, 37
EOS	1, 8, 11, 18, 31
Excaliber	1, 9, 10, 16, 19, 31
Flexon	2, 11, 18, 29, 34, 31
Galaxy Tandem	1, 6, 7, 11, 18, 23, 31
Genesis	1, 5, 6, 7, 9, 11, 18, 31
Innovator II	1, 5, 6, 7, 9, 11, 18, 31
Invader 58	1, 5, 6, 9, 11, 18, 31
Jaguar	1, 5, 6, 7, 9, 11, 39, 18, 31
Javelin	1, 5, 6, 9, 13, 19, 31, 38
Mini Hawk	4, 6, 9, 15, 20, 31
Module	1, 5, 7, 9, 11, 18, 31
Naro	1, 5, 6, 7, 9, 11, 18, 31
Northern Lite Infinity	1, 6, 9, 11, 17, 31
Northern Lite III	1, 6, 9, 14, 18, 27, 31
Orion	1, 5, 6, 7, 11, 39, 18, 31

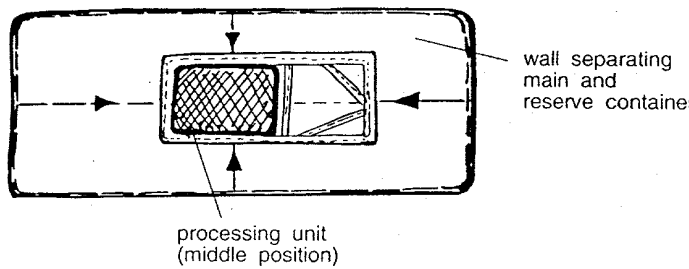
Rig	Detail Notes
Pigmee	1, 5, 6, 9, 14, 35, 31
Pitt III	1, 5, 6, 9, 15, 19, 22, 31
Pitt IV	1, 5, 6, 7, 9, 12, 19, 31, 37
Prestige	1, 5, 7, 9, 11, 17, 31
Racer	1, 9, 10, 13, 19, 21, 27, 30, 31
Racer Elite	1, 9, 10, 13, 19, 21, 27, 30, 31
Requin	1, 6, 9, 14, 17, 31
S18	1, 9, 10, 13, 19, 21, 31
Sidewinder	1, 5, 6, 7, 9, 11, 31
Sprint	1, 9, 10, 13, 19, 21, 27, 31
Supra	1, 5, 7, 9, 11, 18, 31
Sweethog 1-pin	1, 6, 9, 12, 17, 25, 26, 31
Sweethog XN, X-XN	2, 6, 12, 17, 25, 26, 31
Sweethog Duece 2-pin	1, 9, 12, 17, 26, 27, 29, 31
Swift	1, 5, 6, 7, 9, 11, 17, 27, 31
Swift II	1, 5, 6, 7, 9, 32, 17, 19, 21, 27, 31
Talon	1, 5, 6, 7, 11, 18, 31
Talon 1994	2, 11, 18, 29, 34, 31
Tear Drop 1-pin	1, 9, 10, 13, 19, 28
Tear Drop 2-pin	1, 9, 10, 13, 19, 21, 27, 31
Telesis	1, 5, 6, 7, 9, 11, 18, 31
Top Flyer V	1, 5, 6, 7, 9, 11, 18, 31
Top Flyer VI	1, 5, 6, 7, 9, 11, 17, 31
Ultra I	1, 5, 6, 7, 9, 11, 39, 18, 31
Ultra II	1, 5, 6, 7, 9, 12, 17, 31, 37
Vector I	1, 5, 6, 7, 9, 11, 18, 31
Vector II	1, 5, 6, 7, 9, 12, 17, 25, 31, 37
Vector III	1, 5, 6, 7, 9, 12, 17, 25, 31

Rig	Detail Notes
Vector Tandem I	1, 5, 6, 7, 11, 18, 23, 31
Vector Tandem II	1, 5, 6, 7, 12, 17, 23, 25, 31
Vectra	1, 7, 9, 12, 17, 31, 37
Vulcan	1, 5, 6, 7, 9, 11, 18, 31
Warp III with square reserve	1, 6, 9, 14, 17, 23, 31
Warp III with round reserve	1, 6, 9, 13, 19, 22, 27, 31
Wonderhog II with round reserve	1, 6, 9, 13, 17, 22, 27, 31
Wonderhog II with square reserve	1, 6, 9, 14, 17, 23, 31
Zerox	1, 5, 6, 7, 11, 17, 31

INSTALLATION DETAILS AND NOTES

1. Processing Unit mounting:

Located in the original Airtec supplied spandex pocket which is positioned such that the Processing Unit (not the pocket) is centered both horizontally and vertically on the dividing wall between the main and reserve container. The pocket should be securely sewn around the perimeter, close to the edge of the binding tape.



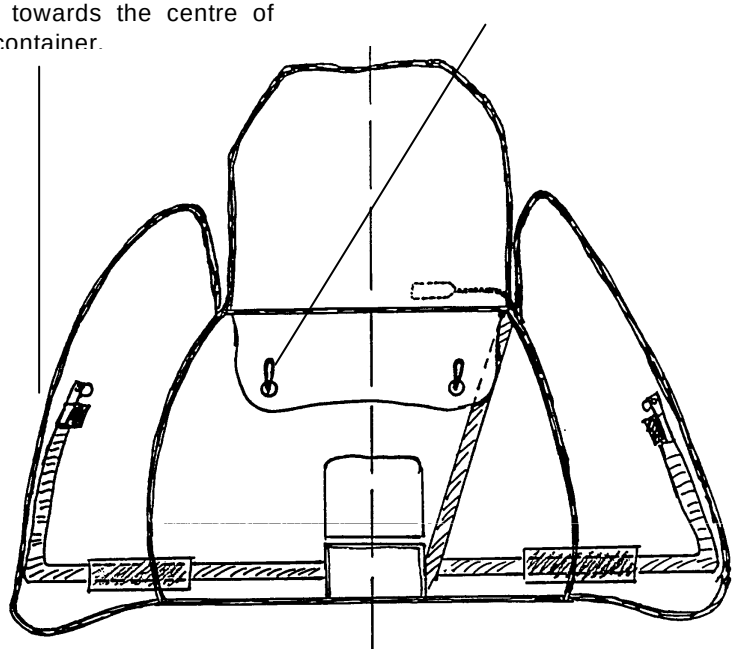
2. Processing Unit mounting:

In narrow rigs, with limited divider wall space, a smaller version of the standard pocket is used so that the Processing Unit can be centered. All other details are the same as in note 1.

3. Processing Unit mounting:

A shortened version of the standard pocket is located centered width-wise on the bottom of the packing tray with the cable pocket portion located near the dividing wall. The pocket should be securely sewn around the perimeter, close to the edge of the binding tape.

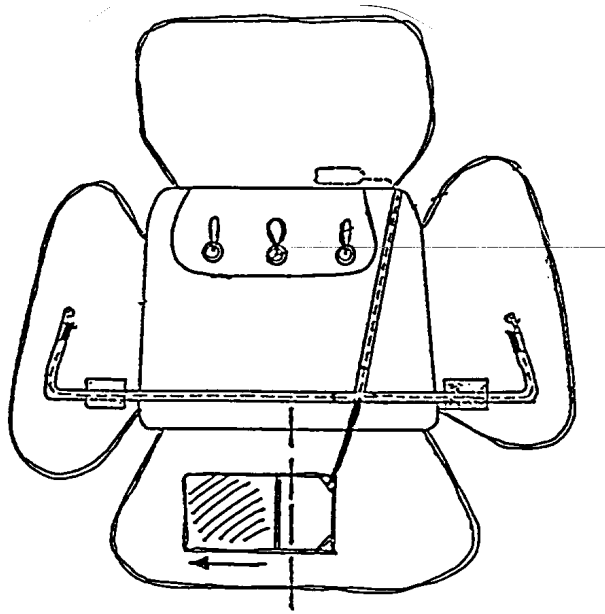
If the elastic housing attachement flaps cannot be sewn with a machine they should be stitched by hand using wax thread. The attachement flaps must face towards the centre of the container.



unit cable housing routed underneath the velcro strips

4. Processing Unit mounting:

Located in the original Airtec supplied spandex pocket which is positioned such that the Processing Unit (not the pocket) is centered both horizontally and vertically on the portion of the lower reserve container flap which forms the dividing wall between the main and reserve container when the reserve is packed. The pocket should be securely sewn around the perimeter, close to the edge of the binding tape.



5. Control Unit mounting:

Located under the reserve container protector flap, oriented vertically. Secured with ties, velcro, or located in clear pouch. Must not ever be allowed to come into contact with the reserve ripcord housing.

6. Control Unit mounting:

Located under the reserve container protector flap, oriented horizontally near the top of the flap. Secured with ties, velcro, or located in clear pouch. Must not ever be allowed to come into contact with the reserve ripcord housing.

7. Control Unit mounting:

Located inside the collar area above the reserve container horizontally. Must not be allowed to come into contact with the reserve ripcord housing. Note during packing: When the top flaps are folded completely open (to insert the freebag, etc.) make sure that the reserve housing does not smash or damage the display of the Control Unit.

8. Control Unit mounting:

Located in the cavity of the flap below the last cover flap. The cable is routed through a hole in the lower container flap.

9. Control Unit mounting:

Located on the front shoulder pad portion of the rig below the 3-ring release in a pocket, or the clear plastic pocket.

10. Control Unit mounting:

Located under the pin protector flap on the back of the rig left (preferred) of the ripcord housing. Must not ever be allowed to come into contact with the reserve ripcord housing.

11. Cutter mounting:

Located on the first flap to cover the pilot chute. (Typically the right side flap, "#3".) The cutter elastic should be sewn in place and positioned such that the cutter hole is located at the inside (typically left) edge of the grommet hole.

12. Cutter mounting:

Located beneath the pilot chute on the bottom inside flap, on top of the freebag/reserve canopy. The cutter elastic should be sewn in place horizontally and positioned so that the cutter hole is located at the top edge of the grommet hole.

13. Cutter mounting:

Located on the bottom of the container (the packing tray), oriented horizontally.

14. Cutter mounting:

Located on the bottom flap covering the pilot chute. The cutter elastics should be sewn in place positioned so that the cutter holes are located at the top of the grommet holes.

15. Cutter mounting:

Located on the right and left side flaps. The cutter elastics should be sewn in place positioned such that the cutter holes are located at the inside edges of the grommet holes.

16. Cutter mounting:

Located on the bottom of the container (the packing tray), with the cutters angled 30° from horizontal.

17. Cutter Cable routing:

The cable runs through a channel from the Processing Unit to the Cutter Elastic. The channel should be sewn in place on the container flap. The cable does not go through any hole in any flap.

18. Cutter Cable routing:

The cable runs through a channel from the Processing Unit to the Cutter Elastic. The cable passes through a hole made in the bottom inside flap. (Typically "#1"). The channel should be sewn in place.

19. Cutter Cable routing:

The cable runs through a channel from the Processing Unit to the Cutter Elastic(s) on bottom (packing tray) of the rig. The cable does not go through any hole in any flap.

20. Cutter Cable routing:

The cables run through channels from the Processing Unit to the Cutter Elastic on the container flap. The channels are routed beneath the corner velcro strips and should be sewn in place.

21. control unit cable routing:

The control unit cable should be routed beneath the ends of the cutters and secured in place with waxed hand tacking thread. This supports the ends of the cutters providing added protection to the cutter cable connection.

22. Miscellaneous:

Can only be used with round reserves.

23. Miscellaneous:

Can only be used with square reserves.

24. Miscellaneous:

Flaps #3 and #4 are reversed compared with the order normally used by most manufacturers. Thus the cutter is mounted on flap #4 (the right flap), and the right flap is closed before the left. The closing sequence is therefore 1 - 2 - 4 - 3 - 5 - 6.

25. Miscellaneous:

In order for the cutter to be located on flap #1 (beneath the pilot chute) it is necessary to use these specific model pilot chutes with these particular rigs:

Vector-II, Tandem Vector-II use Vector-II pilot chute.

Vector-III use Vector-II pilot chute.

Sweethog, XN, X-XN use pilot chute P/N SP0011B.

Atom, use Quick 3 pilot chute.

Eclipse, use Eclipse pilot chute P/N 1000-2.

26. Miscellaneous:

The flap that the cutter(s) are mounted on is stiffened with plastic to protect the cutter(s) and cables from the pilot chute spring base. The cutter(s) are covered on the inner side by a velcro secured flap.

27. Loop:

Dual closing loop is used with out any washers.

28. Loop:

No Silicon lubricant is used on the closing loop.

29. Miscellaneous:

Retrofit installation (where the rig was not originally outfitted with the Cypres setup) is done by the harness / container manufacturer.

30. Loop:

In the U.S. because of TSO requirements, follow the harness / container manufacturers special instructions concerning the closing loop.

31. Loop:

The entire reserve loop should be impregnated with silicone except for 1/2" (1 cm) next to the disc. Treat with silicon after knot is tied to avoid slippage. Running loops have to be treated completely with silicone prior to installation in container.

32. Cutter mounting:

For the cutter close to the main container:

Located beneath the pilot chute on the bottom inside flap, on top of the freebag/reserve canopy. The cutter elastic should be sewn in place horizontally and positioned so that the cutter hole is located at the top edge of the grommet hole.

For the cutter in the collar area:

Located on the bottom of the container (the packing tray), oriented horizontally.

33. Miscellaneous:

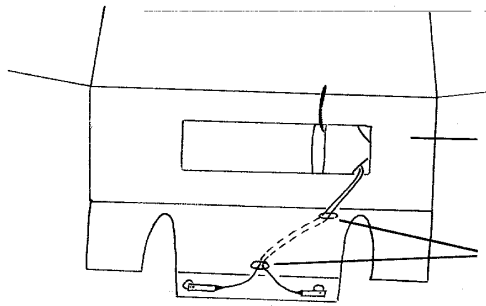
If installed originally by the rig manufacturer, deviations are possible.

34. Miscellaneous:

Installations where the control unit is mounted on the front of the rig have to be modified according to the rig manufacturers instructions. Control unit has to be located on the upper back pad of the rig. Instructions are available at Rigging Innovations (fax no.: US (909) 928 1538).
Installations where processing unit is located on the reserve packing tray have to be modified (see page 6, no. 1 and no. 2).

35. Cutter cable routing:

The cables are routed through the layers of the reserve flap.



36. Control cable routing:

Routed through the layers of the backpad and top reserve flap. No cable channel and no cuts are necessary.

37. Cutter mounting:

In the case that there is a round reserve installed in the rig, the cutter has to be located under flap # 3. This will prevent that canopy material gets torn in the hole of the cutter during packing.

38. Miscellaneous:

In order for the cutter to be located on the bottom of the container it is necessary to use the original free bags with these particular rigs:

Javelin use Javelin „molar“ reserve free bag.

Dolphin use Dolphin reserve free bag.

39. Cutter mounting:

The order of flaps 3 and 4 can be reversed compared with the order normally used by most manufacturers. In this case the cutter has to be mounted on flap # 4 (the right flap), and this flap has to be closed before the left one. It is useful to change the numbers on the side flaps, this will help other riggers/reservepackers to close the container in the correct sequence.

CUTTER REPLACEMENT SERVICE CENTERS

A release unit which has been activated can be changed in general by any rigger or packer. This is possible, when the Cypres is provided with the new easy to replace cutter. It can be recognized by the plug on the release element cable. A Cypres with an „old“ cutter must be returned to one of the service centers below.

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