ICON HARNESS/CONTAINER
PACKING MANUAL
&
SKYHOOK ADDENDUM
ICON HARNESS/CONTAINER PACKING MANUAL & SKYHOOK ADDENDUM

TM 162
REVISED January 10

ICON HARNESS CONTAINER SIZES

<table>
<thead>
<tr>
<th>SIZE</th>
<th>MAIN SIZE</th>
<th>RESERVE SIZE</th>
</tr>
</thead>
<tbody>
<tr>
<td>I1</td>
<td>90-96 SQ.FT</td>
<td>99 SQ.FT</td>
</tr>
<tr>
<td>I2</td>
<td>96-111</td>
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<td>I6</td>
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<td>175-190</td>
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<tr>
<td>I7</td>
<td>210-250</td>
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<tr>
<td>S7</td>
<td>210-250</td>
<td>190-250</td>
</tr>
<tr>
<td>S8</td>
<td>250-270</td>
<td>220-250</td>
</tr>
<tr>
<td>S9</td>
<td>250-290</td>
<td>220-250</td>
</tr>
</tbody>
</table>

Prior to assembly, packing or use of this product, read and fully understand the content and all warnings contained in this manual, and carefully follow all instructions before and during packing and using the parachute system.
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PRIOR TO ASSEMBLY, PACKING OR USE OF THIS PRODUCT, READ AND FULLY UNDERSTAND THE CONTENT AND ALL WARNINGS CONTAINED IN THIS MANUAL, AND CAREFULLY FOLLOW ALL INSTRUCTIONS BEFORE AND DURING PACKING AND USING THE PARACHUTE SYSTEM
3.3 STORAGE
3.4 USER CHECK-LIST BEFORE JUMP

4. SKYHOOK ADDENDUM

5. MAINTENACE LOG
What is Aerodyne all about? It’s pretty simple really, something of a mantra for our company:

**Better Gear, Better Value, Better Skydives**

_Better Gear_ has always been part of Aerodyne’s DNA. We began with the do-it-all 7 cell, the Triathlon. We created the Smart Reserve, known around the world for superior quality. We created the Pilot, arguably the best-opening performance canopy on the market. With the Mamba, we’ve taken non-cross-braced elliptical canopy design to new performance highs. We developed a better cutaway system with the mini-force ring; even our hook knife outclasses the competition by a mile. “Better” really drives everything we do; as we develop innovative fabrics like zpX, as we bring out canopies like the Sensei and more A2 sizes, as we continue to improve an already outstanding Icon rig, we are following this mantra.

The second part is about providing _Better Value_. This is not necessarily about the lowest price, but about providing great value for money. We know our customers work hard and play hard and expect to get real value for the money they spend. Better products at comparable prices mean better value. Better customer service, provided by people who really know the equipment is also part of Aerodyne’s commitment to better value.

The final part is about _Better Skydives_. We are a company owned and staffed by skydivers. We get it! Skydiving is fun, and the better your jumps, the more fun you have. We support this by not only making the best gear and providing the best value we can, but by taking our product out there. You’ll see us at the DZ almost every weekend, jumping, load organizing, and generally having fun. We ask that our sponsored teams and individuals do the same, putting their time and energy into improving your skydives and your fun. That’s why you skydive, and we’re here to help.

_The Aerodyne Team_
WARNING!

1. Proper training and/or experience are required to lower the risk of serious injury or death.

NEVER USE THIS EQUIPMENT UNLESS YOU HAVE:

A. READ THIS WARNING LABEL, APPROPRIATE OWNERS MANUAL, PACKING INSTRUCTIONS AND COMPLETED A “CONTROLLED PROGRAM OF INSTRUCTION” IN THE USE OF THIS PARACHUTE SYSTEM.

OR

B. READ THIS WARNING LABEL AND APPROPRIATE OWNERS MANUAL AND PACKING INSTRUCTIONS AND COMPLETED AT LEAST 100 RAM AIR PARACHUTE JUMPS.

2. LOWER THE RISK OF DEATH, SERIOUS INJURY, CANOPY DAMAGE AND HARD OPENINGS BY NEVER EXCEEDING THE MAXIMUM LIMITS:

   A. 136 Kg
   B. 150 Knots

HARD OPENINGS CAN CAUSE EQUIPMENT DAMAGE, SEVERE INJURY OR DEATH. PARACHUTE SYSTEMS SOMETIMES FAIL TO FUNCTION PROPERLY EVEN WHEN CORRECTLY ASSEMBLED, PACKED AND OPERATED. YOU RISK SERIOUS INJURY OR DEATH EACH TIME YOU USE THIS OR ANY PARACHUTE SYSTEM, BY DOING SO YOU WILL BE DEEMED TO HAVE EXPRESSLY AND IMPLIEDLY ASSUMED THIS RISK.

AERODYNE RESEARCH, LLC
1405 Flight Line Blvd. Unit 20
Deland, FL 32114
DISCLAIMER; LIMITATION OF WARRANTY ON PARACHUTE; LIMITATION OF REMEDIES; WAIVER AND RELEASE OF WARRANTIES

BY ACCEPTING AND USING THIS PARACHUTE, OR BY ALLOWING OTHERS TO USE IT, YOU CONFIRM THAT YOU UNDERSTAND THAT BECAUSE OF THE UNAVOIDABLE DANGER ASSOCIATED WITH THE USE OF THIS PARACHUTE, THE MANUFACTURER MAKES NO WARRANTY WHATSOEVER, EXPRESS OR IMPLIED, ARISING BY LAW OR OTHERWISE, EXCEPT A WARRANTY THAT A PARACHUTE OF SIMILAR DESIGN HAS BEEN PREVIOUSLY USED FOR PARACHUTE JUMPING. THE PARACHUTE IS SOLD, CONVEYED, LOANED, GIFTED, OR OTHERWISE DELIVERED, FURNISHED OR PROVIDED TO YOU BY THE MANUFACTURER, OR ON ITS BEHALF, AS IS, WITH ALL FAULTS, AND WITHOUT ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR USE.

THE MANUFACTURER EXPRESSLY DISCLAIMS ANY LIABILITY UNDER THE LAW, IN TORT OR OTHERWISE, FOR DAMAGES, DIRECT OR CONSEQUENTIAL, INCLUDING BUT NOT LIMITED TO DAMAGES FOR PERSONAL INJURIES, WRONGFUL DEATH, PROPERTY DAMAGE AND LOSS OF USE OF THE PARACHUTE, RESULTING FROM ANY MALFUNCTION OF THE PARACHUTE, OR FROM ANY DEFECT IN DESIGN, MATERIAL, WORKMANSHIP OR MANUFACTURE OF THE PARACHUTE, WHETHER CAUSED BY NEGLIGENCE ON THE PART OF THE MANUFACTURER, AND/OR BY ANY AND ALL MANUFACTURERS OF ANY AND ALL PARTS, ACCESSORIES, COMPONENTS, OR APPLIANCES MADE A PART OF, OR APPURTENANT TO, THE PARACHUTE.

YOU, BY YOUR USE OF THE PARACHUTE, AND/OR BY ALLOWING IT TO BE USED BY OTHERS, SPECIFICALLY WAIVE ANY LIABILITY ON THE PART OF THE MANUFACTURER FOR PERSONAL INJURIES, WRONGFUL DEATH, LOSS OF CONSORTIUM, PROPERTY DAMAGE AND LOSS OF USE OF THE PARACHUTE. YOU AGREE, AND HAVE MATERIALLY REPRESENTED TO THE MANUFACTURER, THAT YOU ARE A “HIGHLY SOPHISTICATED AND EXPERIENCED CONSUMER” WITH RESPECT TO THE PARACHUTE, AND THAT YOU ARE THOROUGHLY AWARE OF, AND EXPRESSLY ACCEPT, ANY AND ALL OF THE RISKS OF PHYSICAL INJURY, DEATH AND/OR PROPERTY DAMAGE WHICH MAY OCCUR AS A RESULT OF YOUR USE AND/OR MISUSE OF THE PARACHUTE DESIGNED BY, MANUFACTURED BY AND/OR RECEIVED FROM THE MANUFACTURER. AS A “HIGHLY SOPHISTICATED AND EXPERIENCED CONSUMER,” YOU EXPRESSLY WAIVE ANY CLAIM YOU MIGHT OTHERWISE HAVE OF STRICT LIABILITY AGAINST THE MANUFACTURER.

THE WARRANTIES SET FORTH ABOVE, AND THE OBLIGATIONS AND LIABILITIES OF THE MANUFACTURER, AND YOUR REMEDIES THEREUNDER, ARE EXPRESSLY IN LIEU OF, AND YOU HEREBY WAIVE AND RELEASE THE MANUFACTURER FROM, ANY AND ALL OTHER WARRANTIES, AGREEMENTS, GUARANTEES, CONDITIONS, DUTIES, OBLIGATIONS, REMEDIES OR LIABILITIES, EXPRESS OR IMPLIED, ARISING BY LAW OR OTHERWISE, INCLUDING, WITHOUT LIMITATION, ANY WARRANTY OF MERCHANTABILITY AND FITNESS FOR PARTICULAR PURPOSE, AND IMPLIED WARRANTIES, INCLUDING BUT NOT LIMITED TO THOSE PRIOR TO ASSEMBLY, PACKING OR USE OF THIS PRODUCT, READ AND FULLY UNDERSTAND THE CONTENT AND ALL WARNINGS CONTAINED IN THIS MANUAL, AND CAREFULLY FOLLOW ALL INSTRUCTIONS BEFORE AND DURING PACKING AND USING THE PARACHUTE SYSTEM.

AERODYNE Research LLC 1405 Flight Line Blvd. Unit 20, Deland, FL 32724-2192
TEL: (813)891-6300  FAX: (831)891-6315  www.flyaerodyne.com  Page iii
ARISING FROM COURSE OF PERFORMANCE, DEALING, USAGE OR TRADE, WITH RESPECT TO
THE MANUFACTURER’S PERFORMANCE HEREUNDER, AND YOU AGREE THAT THE
MANUFACTURER SHALL NOT BE LIABLE FOR ANY DAMAGE OR LOSS (INCLUDING BUT NOT
LIMITED TO CONSEQUENTIAL DAMAGES) SUFFERED BY YOU, DIRECTLY OR INDIRECTLY,
BECAUSE OF ANY DEFECT IN THE PARACHUTE. NO AGREEMENT OR UNDERSTANDING
VARYING, ALTERING OR EXTENDING THE MANUFACTURER’S LIABILITY HEREUNDER SHALL BE
BINDING ON THE MANUFACTURER, UNLESS IN WRITING AND SIGNED BY A DULY
AUTHORIZED REPRESENTATIVE OF THE MANUFACTURER, AND BY YOU OR YOUR DULY
AUTHORIZED REPRESENTATIVE.

IF YOU DECLINE TO WAIVE LIABILITY ON THE PART OF THE MANUFACTURER, OR IF
YOU DECLINE TO AGREE TO ALL OF THE TERMS OF THIS “DISCLAIMER – LIMITATION OF
WARRANTY ON PARACHUTE; LIMITATION OF REMEDIES; WAIVER AND RELEASE OF
WARRANTIES,” YOU MAY OBTAIN A FULL REFUND OF THE PURCHASE PRICE BY RETURNING
THE PARACHUTE, BEFORE IT IS USED, TO THE MANUFACTURER, WITHIN 15 DAYS FROM THE
DATE OF YOUR RECEIPT OF THE PARACHUTE, WITH A LETTER STATING WHY IT WAS
RETURNED.
1 TECHNICAL SPECIFICATIONS

1.1 INTRODUCTION

THE ICON HARNESS AND CONTAINER SYSTEM MUST BE CHECKED AND ASSEMBLED BY A QUALIFIED RIGGER.

Before assembly, check the harness, container and all components, ensuring that the Reserve and Main container sizes are compatible with the Reserve and Main canopies, and deployment systems with which it is to be used.

1.2 DESCRIPTION: Icon is an individual harness and container system

- MAIN RISERS WITH 3-RING SYSTEM
- CHEST STRAPS
- CUTAWAY HANDLE
- RESERVE HANDLE
- LEG STRAPS, ADJUSTERS AND PAD
- MAIN LIFT WEB
- RESERVE CONTAINER
- MAIN CONTAINER
- HAND DEPLOY
1.3 MARKING & LIST OF COMPONENTS

Removal of any of the TSO labels or Warning labels VOIDS the TSO and warranty.

1.3.1  TSO C23d ON LEFT RESERVE RISER

AERODYNE RESEARCH LLC 1405 FLIGHT LINE BLVD STE 20 DELAND, FL 32724 USA
TSO C23d  D.O.M.: 
PART NO:  HARNESS TYPE:  SERIAL NO. 
CONTAINER SIZE:  VERSION:  HARNESS SIZE:  
MAX. OPERATING LIMITS:  136 Kg  150 KTS  
AVERAGE PEAK FORCE DURING 4.3.4 STRENGTH TESTS: 5.45 G’s

1.3.2  DATA CARD POCKET LABEL

AERODYNE RESEARCH LLC 1405 FLIGHT LINE BLVD STE 20 DELAND, FL 32724

<table>
<thead>
<tr>
<th>MAX SPEED</th>
<th>KTS.</th>
<th>MAX WEIGHT</th>
<th>KG</th>
</tr>
</thead>
</table>

LIMITATIONS: Maximum Weight and Speed is the lower of the 2 values: 136 KG/ 150 KTS or the Reserve Canopy TSO Maximum Limitations

1.3.3  WARNING LABEL

WARNING! 1. PARACHUTING IS DANGEROUS. PARACHUTE SYSTEMS AND THEIR COMPONENTS SOMETIMES FAIL TO FUNCTION PROPERLY EVEN WHEN CORRECTLY ASSEMBLED, PACKED AND OPERATED. BEFORE YOU USE THIS PARACHUTE ASSEMBLY, YOU MUST FULLY UNDERSTAND AND ACCEPT THAT YOU RISK SERIOUS PERMANENT INJURY OR DEATH EACH TIME YOU USE THIS PARACHUTE ASSEMBLY. PROPER TRAINING AND EXPERIENCE ARE REQUIRED TO LOWER THE RISK OF SERIOUS PERMANENT INJURY OR DEATH. ALSO, YOU MUST:

A. READ AND FULLY UNDERSTAND THIS WARNING LABEL, THE APPROPRIATE OWNERS MANUAL, SUPPLEMENTAL INFORMATION AND PACKING INSTRUCTIONS, FOLLOW ALL MANUFACTURERS’ RECOMMENDATIONS (INCLUDING BUT NOT LIMITED TO WING LOADING RECOMMENDATIONS), AND ENSURE THAT YOU HAVE COMPLETED AN APPROPRIATE “CONTROLLED PROGRAM OF INSTRUCTION” IN THE USE OF THIS PARACHUTE ASSEMBLY AND EACH OF ITS COMPONENTS.

OR

B. READ AND FULLY UNDERSTAND THIS WARNING LABEL, THE APPROPRIATE OWNERS MANUAL, SUPPLEMENTAL INFORMATION AND PACKING INSTRUCTIONS, FOLLOW ALL MANUFACTURERS’ RECOMMENDATIONS (INCLUDING BUT NOT LIMITED TO MANUFACTURER’S WING LOADING RECOMMENDATIONS), AND HAVE COMPLETED AT LEAST 100 RAM AIR PARACHUTE JUMPS. 2. THE RISK OF DEATH, SERIOUS INJURY, CANOPY DAMAGE AND HARD OPENINGS MAY BE LOWERED BY STRICTLY COMPLYING WITH ALL MANUFACTURERS’ RECOMMENDATIONS AND SAFE PARACHUTING PRACTICES AND BY NEVER EXCEEDING THE LIMITS OF YOUR EXPERIENCE LEVEL AND THE MAXIMUM EQUIPMENT LIMITS, INCLUDING THE MAXIMUM LIMITS FOR THIS HARNESS/CANISTER OF:

a. Maximum Exit Weight (weight of jumper + clothing + equipment): 136 Kg (300 pounds)  
b. Maximum Opening Velocity: 150 Knots (172 mph)
1.4 TECHNICAL SPECIFICATIONS AND LIMITATIONS

SPECIFICATIONS: THE ICON HARNESS CONTAINER IS CERTIFIED UNDER TSO C23d
It is produced in different sizes in accordance to the TSO C23d SMART range of canopies.

RESERVE CANOPY USE: Must be used with TSO certified reserve canopies.
ICON container sizes:

<table>
<thead>
<tr>
<th>SIZE</th>
<th>SMART Reserve</th>
<th>Reserve size range</th>
<th>Main canopy</th>
<th>Main size range</th>
</tr>
</thead>
<tbody>
<tr>
<td>I1</td>
<td>99</td>
<td>252in³, min-262in³, max</td>
<td>90-96</td>
<td>304in³, min-311in³, max</td>
</tr>
<tr>
<td>I2</td>
<td>99-110</td>
<td>262in³, min-275in³, max</td>
<td>96-111</td>
<td>304in³, min-327in³, max</td>
</tr>
<tr>
<td>I3</td>
<td>110-120</td>
<td>275in³, min-333in³, max</td>
<td>117-132</td>
<td>340in³, min-368in³, max</td>
</tr>
<tr>
<td>I4</td>
<td>135-150</td>
<td>333in³, min-346in³, max</td>
<td>132-150</td>
<td>368in³, min-393in³, max</td>
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<tr>
<td>I5</td>
<td>150-175</td>
<td>346in³, min-384in³, max</td>
<td>150-168</td>
<td>393in³, min-416in³, max</td>
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<tr>
<td>I6</td>
<td>175-190</td>
<td>384in³, min-476in³, max</td>
<td>168-190</td>
<td>416in³, min-465in³, max</td>
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<tr>
<td>I7</td>
<td>190-250</td>
<td>476in³, min-488in³, max</td>
<td>210-250</td>
<td>486in³, min-556in³, max</td>
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<tr>
<td>S7</td>
<td>190-250</td>
<td>476in³, min-488in³, max</td>
<td>230-250</td>
<td>486in³, min-556in³, max</td>
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<tr>
<td>S8</td>
<td>220-250</td>
<td>476in³, min-488in³, max</td>
<td>250-270</td>
<td>507in³, min-597in³, max</td>
</tr>
<tr>
<td>S9</td>
<td>220-250</td>
<td>476in³, min-488in³, max</td>
<td>250-290</td>
<td>597in³, min-673in³, max</td>
</tr>
</tbody>
</table>

ICON Harness size: The Icon Harness is produced in the following sizes:

A= XX-Special          E= Large
B= X-Small             F= X-Large
C= Small               G= XX-Large
D= Medium              H= XXX-Large

LIMITATIONS:
MAXIMUM SPEED: 150 KTS
MAXIMUM WEIGHT IS DEFINED BY THE LOWER OF THE TWO: 136 KG OR THE RESERVE CANOPY TSO MAXIMUM WEIGHT

QUALIFIED RESERVE DEPLOYMENT SYSTEM:
FREEBAG WITH SPRING PILOT CHUTE PACKING: AS SPECIFIED IN THIS MANUAL.

MAIN DEPLOYMENT SYSTEM:
DEPLOYMENT BAG WITH HAND DEPLOYED PILOT CHUTE OR STATIC LINE.
1.5 Major Components & Accessories:

- Main cutaway handle with rigid puff
- Reserve handle with rigid puff or metallic handle
- Main cutaway handle position
- Reserve handle position
- Pilot Chute with hacky sack deploy and collapsible bridle
- LEGSTRAPS

Prior to assembly, packing or use of this product, read and fully understand the content and all warnings contained in this manual, and carefully follow all instructions before and during packing and using the parachute system.
2 ASSEMBLY AND OPERATING INSTRUCTIONS

2.1 INSPECTION BEFORE PACKING AND ASSEMBLY

1. Read and understand this manual and be qualified by proper instruction for sport parachuting activities.

2. Ensure that the reserve and main canopy size is compatible with the harness-container and deployment system with which it is to be used.

3. Prior to assembly and/or packing a thorough inspection of the ICON Harness and container must be completed.
   - Reserve container
   - Main container
   - Harness
   - All cable housings
   - All stitching
   - All grommets
   - Reserve handle integrity and correct size fitted
   - Cut away housing integrity
   - Reserve risers and toggle deployment system

Take note of any worn, damaged, corroded or incorrectly rigged components, which must be repaired or replaced before the harness container is packed for use.
2.2 SOFT LINKS ASSEMBLY

Soft Link for reserve canopies.
PN: P 1487-01

Soft Link for Main canopies on miniforce risers.
PN: P 1487-00

Installation Procedure on front and rear main and reserve risers:

1. Secure the Soft Link ring in the webbing pocket, and hand tack as shown.
2. 
3. 
4. 
5. 
6. 
7. 
8. 
9. 
10. FINAL CONFIGURATION OF SOFT LINKS
2.3 AAD INSTALLATION PROCEDURES

2.3.1 CYPRES INSTALLATION (NON-SKYHOOK)

Insert the Cypres unit into the spandex pocket.

1. Route the Cypres Control unit through the Back pad.

2. Insert the control unit in the Back pad window.

3. Insert the cutter through the proper routing.

4. Align the cutter hole with that of the closing flap.
2.3.1.1 ALTERNATE CYPRESS CUTTER INSTALLATION
(SKYHOOK CYPRESS INSTALLATION)

Install the CYPRESS Main and Control unit as shown in section 2.3.1. The alternate cutter routing places the cutter above the pilot chute. Insert the cutter through the slit in flap #1 (picture #10).

10.

Then route the cutter through the tunnel in flap #2 (#3, SKYHOOK) as shown in pictures #11 & #12.

11. 12.

Finally insert the cutter through the elastic and align the hole with the grommet in flap #2 (#3, SKYHOOK).


NOTE: REFER TO THIS SECTION (2.3.1.1) FOR THE SKYHOOK SYSTEM, WHICH HAS BEEN DESIGNED WITH THE CYPRESS INSTALLED IN THIS LOCATION.
2.3.2 FXC INSTALLATION

1. Install the Power Cable and Housing as shown.

2. Secure the Power Cable End Fitting with a Housing Bracket.

3. Insert Mechanism into pocket.

4. Stow Air Hose.

5. Fit Altitude Control Unit and stow Air Hose.

6. Prior to assembly, packing or use of this product, read and fully understand the content and all warnings contained in this manual, and carefully follow all instructions before and during packing and using the parachute system.
7. Place Air Hose as Shown

8. Place RSL over the Air Hose.

9. Place Reserve Risers. Ensure Risers are clear from Air Hose.

10. RSL and Pin arrangement.

11. Close Reserve Top Flap
2.4 RESERVE ASSEMBLY

2.4.1 CONNECTING THE CANOPY TO THE CONTAINER

Connect front lines to the front risers. Pass the lines through the front slider grommets. For connection see section 2.2.

Connect rear lines. Pass the line through the rear slider grommets. For connection see section 2.2.

Connect the steering lines. Pass the steering lines through the rear slider grommet and through the guide ring on the rear reserve riser. For assembly of steering toggle see section 2.4.2.
2.4.2 RESERVE TOGGLE ASSEMBLY

Pass the lower steering line through the rear riser guide ring.
Pass the line through the toggle grommet and loop around the toggle. Pull tight.

1. Set the toggle into the lower steering line break loop. Slide the toggle finger into the pocket. Stow the extra line and close the Velcro. Fix and secure the toggle on the rear riser.

2. 4.
2.4.3 RESERVE CLOSURE LOOP ASSEMBLY

MANDATORY: Only use the provided Cypres closure loop with the Icon Harness and Container!
To set the reserve closure loop and washer use the following method as shown.

Adjust the length to the specifications below and tighten the knot.

Measurement in centimeters (cm)

<table>
<thead>
<tr>
<th></th>
<th>ICON 1</th>
<th>ICON 2</th>
<th>ICON 3</th>
<th>ICON 4</th>
<th>ICON 5</th>
<th>ICON 6</th>
<th>ICON 7</th>
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<tbody>
<tr>
<td>SMART 99</td>
<td>12.0</td>
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<td>SMART 150</td>
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<td>SMART 220</td>
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AERODYNE Research LLC 1405 Flight Line Blvd. Unit 20, Deland, FL 32724-2192
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2.4.4 PACKING THE RESERVE CANOPY

For packing of the Reserve container, follow the Reserve canopy manufacturer’s WARNINGS, instructions and recommendations.

For the closing of the Reserve Container follow the Icon Manuals WARNINGS, instructions and recommendations.

**NOTE:** Packing of the Reserve Canopy and Container must be completed by a qualified rigger. When packing the reserve, minimize fabric in the center of bag so that a nest is built for the pilot chute to sit into (see picture #4 on section 2.4.6).

2.4.5 STOWING THE RESERVE LINES

Position Freebag as shown (#1). Place first stow in elastic keeper at bottom (#2), opposite side to last locking stow at opening of Freebag. Stows should not extend more than 1 inch (2.5cm) beyond the elastic keeper.

Place the next stow in the opposite side bottom elastic. Continue from side to side until you have placed the last stow in the last available elastic keeper at the top of the Freebag.
Leaves enough excess line to allow the risers to lay flat under the Freebag to the outside edge of the pack tray.

**NOTICE TO RIGGER:** FOR PACKING OF THE SKYHOOK SYSTEM RESERVE, PLEASE REFER TO THE ADDENDUM ON PAGE 40 OF THIS MANUAL. FAILURE TO FOLLOW THIS NOTICE WILL RESULT IN DEATH OR SERIOUS INJURY.
2.4.6 PACKING THE RESERVE CONTAINER (NON-SKYHOOK ONLY)

Prepare the Freebag shape as shown. Side view and Top view.

1. Set up the rig as shown before packing. Lay the risers flat against the container wall.

2. Place the Freebag and pass the closure loop through the Freebag’s central grommet (picture #3). Push and compress the lower corners of the Freebag into the reserve container (see arrows picture #4). Make sure to nest the Freebag.
Fold the reserve bridle as shown (3 folds on each side, picture# 5). Place the kicker plate (#1 flap) over the Freebag and fold the remaining bridle in a triangle shape around the grommet (picture# 6).

Pass a pull up cord cleanly through the pilot chute from bottom to top plate (picture# 7). Ensure the lower spring coil is up against the spring ejector plate and that the excess bridle sits just under the pilot chute without catching the fabric under the spring.

Press the pilot chute down into position and hold with a temporary pin. Make sure not to catch the pilot chute fabric under the plate. Also, do not tuck the pilot chute under the lateral flaps (#2 and #3 flaps) but instead roll it up in between both pilot chute plates (pictures# 9 & 10).
Close the right flap (#2)

Close the left flap (#3).

Close the top flap (#4). Close the bottom flap (#5). Install the reserve cable making sure it passes through both rings on the #5 flap.

Close the final cover flap and tuck the tabs under the #5 flap.
2.4.7 RSL INSTALLATION (NON-SKYHOOK ONLY)

**NOTE:** For Skyhook applications follow the Skyhook instructions on page 34 of this manual. If system has an RSL, follow these steps to properly attach the lanyard.

Install the reserve handle making sure the cable passes thru both guide rings on the #5 flap. Install the RSL passing the reserve cable through the ring attached to the lanyard as shown in picture #17.

Verify the reserve handle pull force is between a minimum of 5 lbs (22.2 Newtons) and a maximum of 22 lbs. (97.9 Newtons).
2.5 MAIN ASSEMBLY

2.5.1 SOFT LINKS ASSEMBLY: Assemble the main canopy’s soft link as previously explained for the reserve canopy (section 2.4.1).

2.5.2 MAIN TOGGLE ASSEMBLY

- Miniforce risers Pin & Toggle

Pass the steering line through the guide ring and connect the toggle to the steering line as shown.

1. Pass the steering line through the guide ring.
2. Connect the toggle to the steering line as shown.

- Insert the toggle into its pocket and lock the bottom pin.

3. Insert the toggle into its pocket.
4. Lock the bottom pin.

- Stow the excess line in the keepers behind the riser.

5. Stow the excess line in the keepers.
6. 2.5.3 MINIFORCE™ THREE RING RISER INSTALLATION

Left hand side.  Right hand side  Side View

1.  2.  3.

Insert the cutaway cable into the Anti-twist Housing.
2.5.4 MAIN DEPLOYMENT & D-BAG ASSEMBLY

Remove the link from the end of the bridle line and thread the end loop through the D-bag’s bottom grommet from the outside until it stops with the confluence wrap. Make sure to pull into the D-bag as much as possible to facilitate installing the Rapide link.

1. 2.

Secure the bridle with the Rapide link. Make sure that the kill line is inside the link (picture #3), and that the link passes through both loops on the end of the confluence wrap.

3. 4.

Next thread the end loop of the bridle through the canopy’s attachment point (picture #5), then thread the pilot chute and D-bag through the bridle’s end loop and tighten as shown.

5. 6.
Prior to assembly, packing or use of this product, read and fully understand the content and all warnings contained in this manual, and carefully follow all instructions before and during packing and using the parachute system.
Main assembly before closing the main container
2.5.5 PACKING THE MAIN CONTAINER
Place the main risers along sidewalls inside external riser covers. If internal riser covers are present, place risers under the internal riser covers (picture #1). Tuck the top riser cover over the riser (picture #2).

Close the cover by inserting the tab into the pocket.
Press tight to correct position.
Place the main deployment bag in the pack tray with the lines facing down. At this stage, adjust the main closure loop length to suit the main canopy size.

**WARNING:** For safety assurance, the minimum force exerted by the bridle on the curved pin must not be less than 4 daN or more than 6 daN.

5. Adjust the closure loop length by moving the knot (picture# 6). Pull closure loop into position with the pull up cord. Place the washer and knot in the webbing pocket (picture# 7).

6. Pass the closure loop through the lower flap (#1), followed by the upper flap (#2).
Pass the closing loop through the grommet on the right side flap (#3), making sure the bridle is exiting form the top right of the flap (picture #10). Pass the closing loop through the grommet on the left side flap (#4), and insert the closing pin. Verify the mark on the kill line is visible in the window to confirm that the pilot chute is cocked (picture #11).

2.5.6  Folding the Pilot Chute
Insure that the center line of the hand deploy pilot chute is free. Fold the hand deploy as shown.
Close the main cover flap and slide the remaining bridle under the right lateral flap (#3).
Free Fly Handle Procedures

1. Insert the pilot chute into the BOC.
2. Insert the free tab into the BOC.
3. Insert the other tab under the right lateral flap. #3

Prior to assembly, packing or use of this product, read and fully understand the content and all warnings contained in this manual, and carefully follow all instructions before and during packing and using the parachute system.
CRW Bridle Procedures

Routing of CRW Bridle on CRW Canopy (picture# 24). Routing of CRW bridle through deployment bag.

24.  25.

Note position of closing pin (picture# 26). Pack canopy into D-bag as described in manual and close the container as explained. Note pin location (picture#27).

26.  27.

Stow Pilot chute and remaining CRW bridle as stated.

28.
3 ICON MAINTENANCE & REPAIRS
The ICON is built with the latest design and production technologies.

Qualified personnel:
All maintenance on the ICON Harness & Container must be done by the Manufacturer or a qualified rigger.

Attention:
The ICON is certified under TSO C23d. The TSO label is sewn on the left reserve riser. If this label is not present do not pack the rig.
REMOVAL OF THE CERTIFICATION OR WARNING LABEL voids the TSO and all certification approvals.

3.1 INSPECTION FREQUENCY

RESERVE:
Reserve maintenance and packing: Verify local regulations on reserve canopy maintenance. If none are available, follow these recommendations. Service the reserve canopy at 1 year intervals in normal conditions of use and storage. If the conditions are different, the time between maintenance operations may be reduced by the user.

MAIN:
One month or 50 jumps.

3.2 MAINTENANCE PROCEDURE

Operations on the reserve container:
WARNING:
A reserve canopy is not always used in ideal conditions. It is possible that your rig or some components are damaged during use (Burns, broken stitching, moisture, etc.). For these reasons it is necessary to check all the minor and major components before making a decision to reuse and repack it.

IF THERE ARE ANY VISIBLE SIGNS OF WEAR OR DAMAGE, HAVE YOUR RIG INSPECTED BY A QUALIFIED RIGGER FOR ADVICE ON REPAIR OR REPLACEMENT OF PARTS.

WARNING: NEVER USE SLIDER BUMPPERS ON THE RESERVE CANOPY

Prior to assembly, packing or use of this product, read and fully understand the content and all warnings contained in this manual, and carefully follow all instructions before and during packing and using the parachute system.
CHECK:
- All stitching
- Webbing – tapes – binding tapes – fabric integrity
- Plastic plate integrity
- Hardware for sharp edges or damage
- Grommets for damage

ACCESSORIES:
- CYPRESS reserve closure loop replaced as needed
- Cut away handle cables are clean and in good condition with no damage to cable coating

Cutaway cable maintenance:
- Use clean cloth and wipe away cables with silicone spray.
- Thread back through housings, remove, clean
- Repeat until cutaway cables can be removed clean.

- Reserve handle for no sharp edges and swaging is in good condition
- Reserve Freebag stitching and grommets. Replace shock cord if damaged
- Reserve bridle is in good condition
- Reserve pilot chute fabric, spring attachment & condition

OPERATIONS ON THE MAIN RIG EVERY 50 JUMPS

INSPECTION OF ALL COMPONENTS
HARNESS CONTAINER CHECK:
- All stitching
- Webbing – tapes – binding tapes – fabric integrity
- Plastic plate integrity
- Hardware for sharp edges or damage
- Grommets for damage
- Replace main closure loop with new

ACCESSORIES:
- Main D-bag stitching, tapes and change rubber stowing bands
- Main bridle & kill line stitching and kill line condition
- Hand deploy pilot chute stitching, mesh & fabric condition
- Main risers and three ring miniforce system
- Toggle’s stitching and pin

Miniforce™ three ring maintenance: release the three ring system every 50 jumps and knead the webbing as shown.
3.3 STORAGE AND USE:
Textile (polyamides) and other materials (hardware) used in the construction of all parachutes are sensitive to the following environmental elements:

- Acids (car battery)
- Abrasion
- Chlorine
- Excessive heat 93°C or higher
- OIL and grease (polyamides)
- Rodents and pests
- Salt water
- Smoke
- UV rays (sun)
- Water and humidity

When the parachute is not in use it must be placed in a carry bag and stored in a room where the temperature is between 15 and 30 degrees Celsius and the humidity between 15% and 70%.

3.4 USER CHECKLIST BEFORE JUMP

- Verify the packing date on the data-card
- Reserve handle in its pocket, and the correct cable routing without tension
- Turn automatic opener (AAD) “ON”
- Cut away handle in its pocket and cable routing correctly into housings
- Correct setting of the 3-Ring system and loop condition
- Harness main webbing and leg webbing stitching.
- Hardware condition (no grease, no corrosion)
- Main and reserve closure loop condition
- Hand deploy pilot chute bridle routing
- Curved pin extraction force not over 6kg/12lbs
- Hand deploy handle in correct position

When putting rig on back make sure that the harness and leg webbing is not twisted.

Check position and ease of access of:
- Main hand deploy handle
- Cutaway handle
- Reserve handle
4 SKYHOOK ADDENDUM

4.1 SETTING UP THE SKYHOOK RSL LANYARD

- White Ripcord Lanyard
- Red Skyhook Lanyard
- RSL Lanyard

1. Loop the Red Lanyard through the open loop on the RSL. Notice not to loop it through the labeled loop for the Cutaway cable. Repeat with the White Lanyard. Careful not to catch the Velcro onto the lanyard itself. To avoid this, slightly bend the Velcro parallel to the lanyard and pull in one quick but gentle motion.

2. Place the RSL on the right riser and attach via Velcro routing. Then insert the Red Lanyard into its designated tuck tab on flap 2A. Tuck end into pocket on yoke near top of right D-ring.
3. Insert the left cutaway cable through the labeled loop on the RSL (reserved for the cutaway cable). Next attach the Velcro on the white lanyard to flap #5. **CAUTION:** Verify routing of AAD cables not to be entangled in any way with the RSL.

### 4.2 CLOSING THE RESERVE

1. Insert the reserve closing loop through the reserve grommets. Install staging loop through the bottom grommet by reaching in between the backpad and reserve container (staging loop should be 1” (25.4mm) shorter than the Cypress loop and should only pass through the bottom grommet not covered by the elastic).

2. Place the Freebag onto the container and with two pull up cords pull the closing and hesitator loops through the grommets on the freebag.

3. Looking at the container from the top of the reserve tray, route the reserve closing loop through the center grommet and the staging loop through the offset grommet on the right.

4. Secure the reserve closing loop with a temporary pin. Fold the Freebag bridle over the staging loop and insert about an inch through the staging loop.
5. With staging loop in place, V-fold the remainder of bridle under Flap #1. Fold to point where the green loop lies at the edge of the reserve container. Make sure to have enough slack for bridle to fold over flap #2A.

6. Hold the remaining bridle in place; you may use a paddle if helpful. Then close flap #2A and lock with temporary closing pin. Insert the green loop into green tuck tab on flap #2A.

7. Lay the Skyhook bridle over flap #2A. Attach the Red Lanyard to the Skyhook and secure with red seal thread by passing thread through the 2 holes in plastic cover.
8. Now proceed to close flap #2B, hold in place with a pin and fold the remaining bridle on top of the reserve. Now compress the pilot chute onto the reserve and hold in place with a pin.

9. Close flaps #3, #4 and #5.

10. Close flap #6 and insert the reserve closing pin (1) through the eye of the reserve cable first, (2) then through reserve closing loop. Make sure to tuck the closing pin under the protector pocket.

Proceed to seal and finish pack job as normal.
### 5 Maintenance Log

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