BCDS Inc.
R.E.S.C.U. SHELTER
(Rapid Emergency Shower or Command Unit)
SET UP INSTRUCTIONS

I. Unfolding the tent for inflation

Note that the tent is folded in a specific manner to minimize bulk. Please reverse this procedure when placing the tent back in it's protective cover.

1 With at least two people lift the bag containing the tent off of the transport cart and onto the ground. Use the four carry handles located on the side of the storage bag.
2 Open the bag by squeezing the plastic side release buckles.
3 Unfold the tent so that it looks like the picture in figure (1) below. Remove the storage bag.
4 Locate all 11 valve ports near the "feet" of the inflatable structure.
5 Make sure that all the valve ports have a either a service plug, a fill valve, a pressure relief valve, or an inlet check valve screwed in tightly into each valve port.

Please note: Please make sure that the vinyl retainers are not twisted to ensure a proper seal on the valve ports

Figure (1)

Tent unfolded flat. Note: yellow stripe at top between white panels will indicate the top or peak of the tent.

II. Inflating to stand up pressure

A) <u>For inflation with compressed air</u>.

On one end of the tent near the bottom of the leg there is a quick connect air valve fitting equipped with an internal check valve. Locate this air connection point noting that there are 2 valve locations in this area. The second valve next to the inlet check valve is the pressure relief valve. This safety feature will automatically release pressure from the air frame structure anytime the internal pressure exceeds 5 psi.
Use the quick disconnect fitting if inflating from a compressed air source or SCBA bottle. See figure (2). Allow the compressed gas to fill the tent slowly and gradually (allow 3-4 minutes) until the legs of the tent stick out stiffly as it lays on its side. Figure (3)

SCBA BOTTLE ATTACHED TO INLET CHECK VALVE

Figure (2)

B) <u>For inflation with an electric blower</u>.

Locate the check valve located on the leg that is next to the leg with the double valves. If the RESCU shelter was folded up correctly then this valve will be adjacent or on top of the leg with the double valves. This valve can be identified by flipping open the cap and you will see a circular spring loaded check valve. Insert the end of the blower hose and fill the tent until the legs stick out stiffly as it lays on its side. See figure (3). As an option you can also use any of the valve service plugs or any inflation valve located at the bottom of each leg. All of these valves have a threaded cap that may be removed to inflate and then replaced.

III. Standing the tent upright

This process requires a minimum of 2 people. One person holds one side of the tent near the crown or peak and the other holds the same position but on the opposite side. Make sure that the zippered doors are unzipped all of the way as the next step will require you to move to inside the unit. Facing each other and in unison lift the crown while walking sideways towards the feet of the RESCU shelter. Figure (4). When done correctly one person will be lifting with the left hand and the other will be lifting with the right hand. When the structure is about halfway up each person will then move inside the unit and push the bottom legs out in the opposite direction from the top legs creating an "A" frame. At this point the RESCU shelter should be free standing. Figure (5). Then simply position each of the feet outward, placing them approximately 12 feet from the foot on the opposite side. If more than 2 persons are available the extra personnel can best assist by helping to push up the crown from the middle of the outside and by entering the shelter as it is raised and help to spread the legs apart. Continue inflating until the structure is rigid, or until the 5 psi relief valve opens. At this point check to see if the doors will zip closed. If not then narrow the stance of the legs until they will. This is the proper width for the RESCU shelter.

TENT INFLATED AND ON ITS SIDE
Ready to stand up.

Figure (3)

STANDING THE TENT UP

Figure (4)

FREE STANDING STRUCTURE

Figure (5)

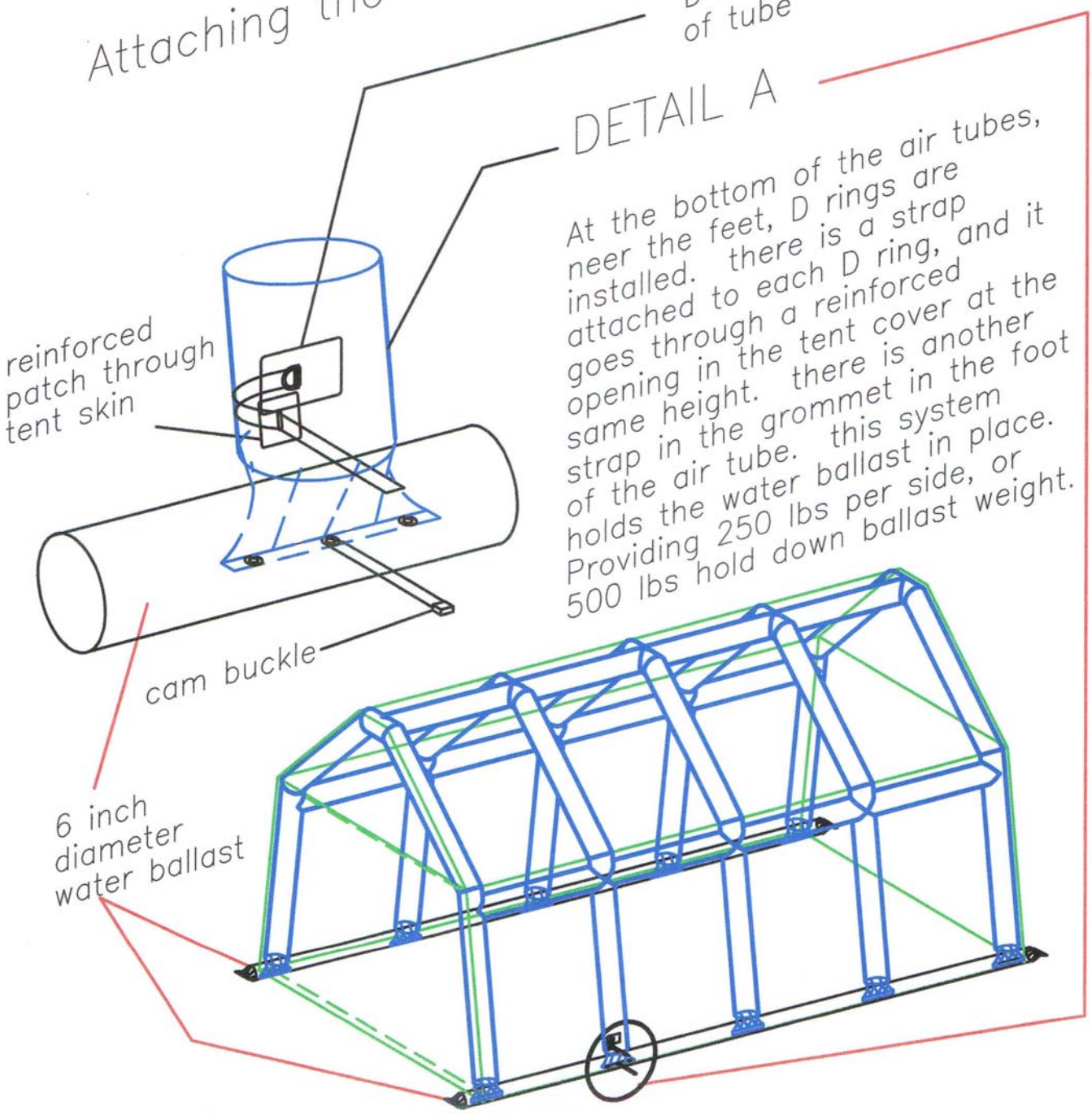
IV. Attaching the water ballast tubes

The water ballast tubes are designed to be filled by a standard garden hose. On one end of the ballast tube is a manual valve and on the other end is a ¾ plug. Attached to the manual valve is an adapter that will allow you to connect to a standard garden hose. Make sure that the ballast tubes are completely flat and placed in their proper place along the outside perimeter of the sides of the RESCU shelter. They should be placed on top of the flap of the excess tent skin material that is lying on the ground. The straps are placed loosely around the ballast tubes before filling with water (see detail A next page). Connect the water hose and open the manual valve on the ballast tube. Slowly fill with water only until the ballast tube has achieved its full shape. Caution Do Not Overfill!! The water ballast is not a pressure vessel and overfilling it under pressure can cause the ballast to rupture!! Remove excess air by disconnecting the water hose and allowing the air to bleed out. Top off the ballast if necessary by repeating the procedure. Tighten the ballast tube straps after filling securing the weighted tubes to the feet of the RESCU shelter. Figure (6).

Figure (6)

WATER BALLAST ASSEMBLY
HOSE FITTING VALVE AND ¾ PIPE PLUG NEAR ENDS

4 Attaching the water ballast tubes



At the bottom of the air tubes, neer the feet, D rings are installed. there is a strap attached to each D ring, and it goes through a reinforced opening in the tent cover at the same height. there is another strap in the grommet in the foot of the air tube. this system holds the water ballast in place. Providing 250 lbs per side, or 500 lbs hold down ballast weight.

V. Deflating and Storage

Completely drain and remove water ballast tubes. Rethread the ballast tube hold down straps in their respective cam buckles. Unzip all of the doors.

Let the pressure out slowly by depressing the poppet on the manual inflation valve that is on the opposing leg from the inlet check valve and the pressure relief valve. Help the inflatable deflate back to the partially inflated position where the structure is on its side. Do this by reversing the stand up procedure. Arrange the cross tubes so that they lie next to each other not on top of each other. Then unscrew all of the valve caps. Make sure the valve caps remain connected to their vinyl holders so they are not lost. The rubber sealing rings should hold the vinyl retainers in place.

From the top or peak of the tent the legs will be lined up on top of each other. Pull back the top row of legs one by one so that the end of the leg is 8-10 inches shorter than the bottom row of legs. This will help to ensure that the bottom of the legs will be closer to even after the tent has been rolled up. From the peak of the tent fold inward a width of about 34-36 inches towards the leg ends. This fold will parallel the peak or ridge line. Keeping this width fold again. Continue to fold the tent evenly while pushing out as much air towards the leg ends as possible. If done properly you should have folded the tent lengthwise 4 times. Then from the perpendicular direction roll the folded section toward the carrying case from the opposite end. Replace all the valves and plugs in their ports and tighten them by hand as you go.

Figure (7)

Please note: Make sure that the vinyl retainers are not twisted to ensure proper seal on the valve ports.

After the tent is rolled up (figure 7) place the carrying cover over the tent evenly. The handles should be on the outside equal distance apart and along the long sides of the bundle. Fold under the flap on one side and then roll the bundle over keeping the cover in place. If done properly you will now have your RESCU shelter sitting on the ground centered on top of the case. Now attach the two straps from the long ends of the cover first to hold it in place. Next place the air hose and ballast tubes on top of the tent, fold over the side flaps and then secure the side straps. Place back on the cart and you are ready for storage.

RESCU Shelter in its case on a transport cart

The carrying case is designed to protect the tent from wear during storage. Please make certain that it is kept away from solvents and stored in a cool dry place. Clean the RESCU Shelter with mild soap and water. Do not use abrasive cleaners. Do not store damp or wet. For detailed repair information log on to:
www.jpwinc.com/repglue.html

BCDS Inc. Durango, CO
info@deconsystems.com Tel 970.259.1025
www.deconsystems.com Fax 970.259.1032