

**USER MANUAL – AJ CONSULTANTS – ACE ARMOUR**

**DELTA MODEL - NIJ LEVEL IIIA QUICK RELEASE MODULAR BODY ARMOUR SYSTEM**



Instructions for the use of the Delta Vest:

1. What comes in the bag:



The vest and its ancillaries come in a convenient carry bag for easy storage and transportation. This includes the neck/collar, groin guard/pad as standard.

The groin guard will be attached, but stowed by being folded to the inside of the vest.

2. MOLLE banding is on the front, back and sides of the vest to allow for multiple configuration options to suit the individual user. MOLLE Pouches can be attached to the vest in your desired configuration.

3. Donning/Doffing the Vest:

a. Donning:



- Pull the groin guard out of the inside of the vest and undo the securing band at the clip on the bottom rear of the vest.
- Peel the front MOLLE Pad up, starting from the bottom, away from its velcrofastening to expose the side securing bands and the attachment point for the groin guard.





- The groin guard may be removed by undoing the two securing straps from the buckles and peeling the pad away from the Velcro fastening.
- Peel the left and right side securing bands away from the Velcro fastening also.



- Open the vest up to expose the elasticated cummerbund and then also undo this.
- The vest is now ready to put on.



- If the user requires neck protection, this should be put on before the main part of the vest. The collar can be peeled apart and then placed round the neck and adjusted to suit the user.
- Place the head through the opening and allow the vest to hang from the shoulders. Secure the cummerbund around the waist. This will pull the rear vest panel on to the users back for a snug fit and also keep it secured during movement. Secure the sides one at a time. Do this by pulling the side securing bands round to the front to fasten on to the Velcro. Ensure the front of the vest is pulled tightly in for a snug fit. Once happy with the fit, allow the front MOLLE board to fall back in to place and ensure it is fastened back on to the Velcro. If the groin guard is attached, now pass the securing strap between the legs and fasten it back in place with the clip on the bottom of the rear of the vest. Adjust this strap for comfort, if it is too tight it will cause discomfort and also restrict movement. Test and adjust accordingly.

#### b. Normal Doffing:

- To remove the vest the user only needs to unfasten one of the side securing straps and the cummerbund. This is done by raising one side of the front MOLLE board to expose the desired side securing strap. Unfasten the side securing strap and then the cummerbund.
- If the groin guard is in place, undo the clip at the rear.
- Remove the vest by pulling over the head.
- To put the vest back on reverse this process. Donning and Doffing should be a quick and easy one man operation.



c. Doffing with the Quick Release:



- The vest comes with a quick release system for removal in an emergency. Configuration of the vest and how far the release handle is pulled will determine how many pieces the vest will separate in to.
- With a full pull of the release handle the vest will separate in to 4 pieces. The front and back panels, the cummerbund and the release handle/cable. If pulled only to the wearer's waist line it will separate in to 2 pieces only, the vest and the cummerbund.
- The picture to the left shows the release handle pulled to bottom of the vest/wearer's waistline.

- With minor adjustment the vest can kept as one piece once the release handle has been used. This is achieved by securing one half of the cummerbund at the securing point on the rear panel. How this is achieved will be covered in the next section, however, the vest does come supplied with this already done, therefore adjustments need only be done by users for their preference/size.

4. Reassembling/Configuring the Vest:

a. Reassembly:

- The front and rear panels are joined at both shoulders by means of webbing straps.
  - The straps have holes to allow for adjustment for size/user preference.
  - The strap is passed in to the top part of the rear panel on the appropriate side.
  - A cord loop attached to the rear panel located in the shoulder sleeve is passed through the selected hole in the strap.
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- This loop in the rear panel can be accessed from the top opening or through the Velcro flap that runs below it. This flap gives access to the top part of the rear of the vest and is directly below the drag handle.



- Now replace the pull handle by threading the two wires back through the opening on the front panel, passing them through the sleeve on the left shoulder. Note that the cables come with rubberised sleeves on the ends, but when first operated these will be pulled off. They are not essential for the operation of the vest, so if they cannot be found after first use, they can be discarded.



- Note that the cables are of different lengths. The shortest wire will be used to secure the front and back panels together. Take the end of the short wire and pass it through the cord loop that has been inserted through one of the holes in the web strap on the left hand shoulder.
- Pull it all the way through until the release handle is back in its normal position on the front of the vest. The front and back panels are now secured at the left shoulder.



- Now feed the rest of the wire through the guide sleeve between both shoulders and insert it through the cord loop protruding through the web strap on the right shoulder.



- The front and rear vest panels are now secured to each other at both shoulders. Ensure that the wire end is tucked out of the way.

- Open the rear of the vest by peeling away the rear MOLLE panel from its Velcro fastening. Do this working from bottom.
- You will see another cord loop located centrally.
- Take the two halves of the cummerbund and feed the cord loop through the desired hole on both sides. Ensure that you match the Velcro fastening on the front side so that it will secure when the vest is put on.
- Feed the front ends of the cummerbund through the respective guide bands on the edges of the rear panel.



- Now remove the side straps that are on the front of the vest. Do this by peeling up the front MOLLE panel from the bottom and then peeling off both straps.
- Attach them both to the back panel as you did with the cummerbund. Ensure that the MOLLE banding on these is uppermost. These do not get fed through the guide straps with the cummerbund.

- Take the long wire that is still free and feed this through the cord loop that is through the cummerbund and side straps.
- Close down the rear MOLLE Panel.
- The vest is now assembled and ready to be used.



b. Additional Configuration/Tips:

- To ensure that the cummerbund remains attached to the vest if the quick release system is used it is necessary to secure one half of it to the cord loop in the back panel. This is done using a short piece of string (not supplied).
- Only do this to one side of the cummerbund. The side that is put on first to the rear panel.
- Reassemble the vest as normal, now when the quick release is used, the cummerbund will remain attached to the vest but released from the body.



- It is also possible to ensure that the vest will not separate at either/both shoulders if the quick release handle is pulled all the way. This is achieved by using the clips that protrude from both shoulder sleeves on the rear panel.
- These are passed back in to the sleeve and then clipped on to any of the free holes on the webbing straps that come from the front panel.



- This can be done to either or both sides depending on user preference.
- With both clips in place, once the quick release handle is pulled the vest will be released around the waist only and have to be removed by pulling over the head.
- If one clip only is in place the vest will separate both at the waist and also on the unclipped side, enabling the vest to be removed by pulling it to one side.

c. Inserting Hard Armour Plates:

- The vest has a pocket on the front and rear in to which hard armour plates can be inserted to provide greater protection
- The rear pocket is accessed by opening the velcroflap immediately below the drag handle on the rear of the vest.
- Insert the plate in the pocket and close the flap.



- To insert the front plate do the following:
  - Open the vest up and turn it so that the inner side is uppermost.
  - At the bottom of both parts is an opening secured with Velcro. This gives access to the soft armour panels within the vest.
  - Select the front panel and open this flap.
  - Curl the left and right hand edge of the soft armour panel and slide it out slightly.



- Locate the pocket for the front plate and open the flap secured by Velcro.
- Insert the plate and close the flap.
- Refit the soft armour panel and close the flap on the inner side.

