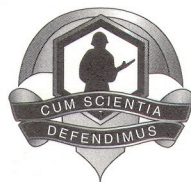
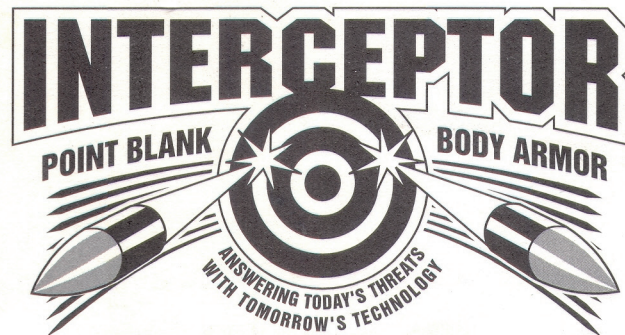


Point Blank BODY ARMOR INC.
ANSWERING TODAY'S THREATS WITH TOMORROW'S TECHNOLOGY



U.S. ARMY SOLDIER BIOLOGICAL
AND CHEMICAL COMMAND
SYSTEMS SOLDIER CENTER
Natick, Massachusetts 01760-5001



Use & Care Manual

Outer Tactical Vest (OTV) &
Small Arms Protective Insert (SAPI)

Your Name _____

Serial No. _____

Vest Size _____ Date of Issue _____

SAPI Size _____ Date of Issue _____

Safety Issues

WARNING: HEAT STRESS

Missions that require the wearing of protective armor in a desert or hot climate can result in heat stress. Consumption of fluids is extremely important in warm or hot environments while wearing armor. Marine Corps users refer to FM 21-20, physical fitness training. Army users refer to USARIEM Technical Note 95-1, October 1994, Sustaining Soldier Health and Performance in Southwest Asia: Guidance for Small Unit Leaders. Report may be obtained from: Commander, Defense Technical Information Center, 8725 John J. Kingman Road, Suite 0944, Fort Belvoir, VA 22060-6218.

WARNING: CHEMICAL/BIOLOGICAL EXPOSURE

Do not perform after operation PMCS if you have been exposed to a contaminated NBC environment. For decontamination procedures, refer to FM 3-5 (Army) or FMFM 11-10 (Marine Corps). The OTV is decontaminable for disposal only; not to be reused. If exposed CB agents MOPP IV posture must be maintained until OTV has been safely disposed.

CAUTION: SIZE/FIT

Check label to see if Interceptor body armor is the correct size. This is extremely important in order to achieve maximum protection and user satisfaction.

CAUTION: FLAME RESISTANCE

Avoid placing the Interceptor body armor near open flames, as it is not flame resistant.

WARNING: WATER SUBMERSION

In the event of an unexpected submersion in water, remove all load bearing equipment, then immediately doff the body armor system.

Wearers must practice doffing in the darkness and with the gloves appropriate to each mission in the event that emergency doffing is necessary either on land or in water.

Notes

This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

National Stock Numbers

Interceptor System

Body Armor, Interceptor, Outer Tactical Vest, Woodland Camouflage

X-Small	8470-01-465-1863
Small	8470-01-465-1864
Medium	8470-01-465-1866
Large	8470-01-465-1867
X-Large	8470-01-465-1868

Small Arms Protective Insert

Body Armor, Interceptor, Small Arms Protective Insert (SAPI)

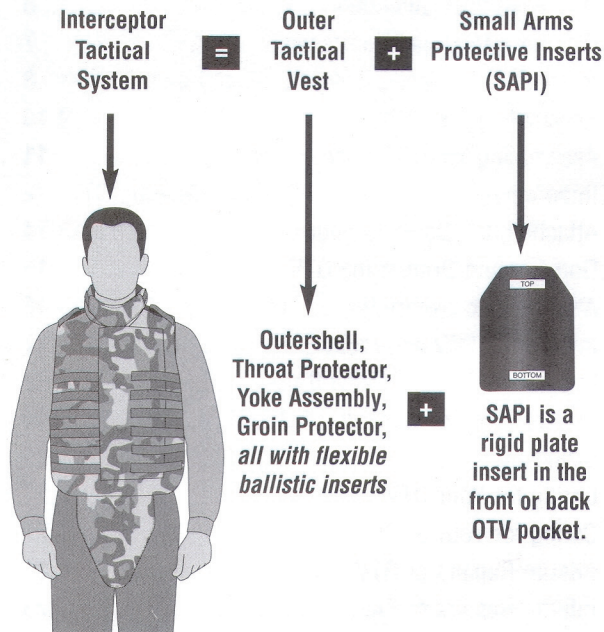
X-Small	8470-01-465-1181
Small	8470-01-465-1184
Medium	8470-01-465-1187
Large	8470-01-465-1188
X-Large	8470-01-465-1189

Table of Contents

Introduction	3
Interceptor System Checklist	4
Protective Configuration	5
OTV Base Vest Outershell	6
OTV Base Vest Ballistic Panels	7
Interceptor Tactical System Accessory Components ..	8
Assembling Your OTV	9-10
Assembling Your OTV Accessories	11
Integrating the Front SAPI While Not Wearing OTV ..	12
Attaching the Collar to Your OTV	13-14
Donning and Doffing the OTV	15
Attaching Accessory Protectors	16
Integrating OTV and Front SAPI	17
Integrating OTV and Back SAPI	18
The Donned and Assembled OTV	19
Sizing	20
Caring for Your OTV	21
Caring for Your SAPI	22
Interim Repairs of OTV	23
Interim Repairs of SAPI	23
Ballistic Hit Record	24
National Stock Numbers	25

Introduction

The Interceptor Tactical System represents the most innovative, technologically advanced protective system ever developed for United States military forces.



Ballistic Hit Record

Name _____

Rank _____ Serial No. _____

Unit _____

OTV Size _____ Issue Date _____

Duty Performed When Hit _____

Circle One: Grenade Mortar Artillery

Rifle Mine Booby Trap Other _____

Date of Hit _____ Approx. Range _____

Location of Hit(s) on OTV _____

Continued to Perform Mission? Yes _____ No _____

Was an Injury Sustained? Yes _____ No _____

Describe _____

Interim Repairs of OTV

The following interim repairs can be made to the OTV until the vest can be exchanged.

- Rigger's tape can be used to fix tears or holes in the carrier, keep the vest closed, hold the ballistic panels in place, or repair any hook and pile that has been damaged.
- Threat-on buckle can be used to repair broken buckles on side straps.

Interim Repairs of SAPI

- The outer cover can be repaired using rigger's tape until it can be exchanged.

Interceptor System Checklist

1. Check the OTV to see that it has no tears, cuts, snags or other defects which could render it unserviceable.
2. Make sure the OTV ballistic inserts are not bunched.
3. Check the inside label of the OTV to make sure you have the right size (XS fits 29"-33" chest; S fits 33"-37" chest; M fits 37"-41" chest; L fits 41"-45" chest; XL fits 45"-49" chest).

IF ANY PROBLEM EXISTS, RETURN THE INTERCEPTOR SYSTEM.

4. Make sure you have received ALL components:


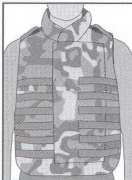
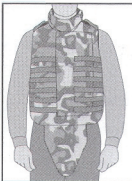


OTV Checklist

- Base Vest
- Collar
- Groin Protector Outershell
- Back Ballistic Panel
- Front Right Ballistic Panel
- Front Left Ballistic Panel
- Collar Ballistic Panels (2)
- Groin Protector Ballistic Panel
- Throat Protector Ballistic Panel
- Throat Protector Outershell

SAPI Checklist

- SAPI Set

Military Operational Protective Posture (MOPP)

Level 1		<u>Threat/Risk</u> <ul style="list-style-type: none"> • High probability: 9mm • Low probability: fragmentation • Extremely hot environment 	<u>Protection</u> Torso only protection from fragmenting munitions and 9mm.
Level 2		<u>Threat/Risk</u> <ul style="list-style-type: none"> • High probability: 9mm • Medium to high probability: fragmentation 	<u>Protection</u> Torso and neck protection from fragmenting munitions and 9mm.
Level 3		<u>Threat/Risk</u> <ul style="list-style-type: none"> • High probability: 9mm • High probability: fragmentation 	<u>Protection</u> Maximum body protection against fragmentation and 9mm.
Level 4	 	<u>Threat/Risk</u> <ul style="list-style-type: none"> • High probability: rifle rounds 	<u>Protection</u> Maximum body protection against fragmentation, 9mm, and assault rifle rounds (not armor piercing).

Caring for Your SAPI

In order to assure your Interceptor System continues to provide you with the protection intended, it is extremely important to follow the cleaning and maintenance instructions provided below.

1. CLEANING:

Do not machine wash or dry. Failure to follow these instructions may render your SAPI useless against ballistic threats.

- Remove loose dirt and lint from the outer surface of the SAPI using a cloth or soft bristle brush. NEVER USE A STIFF BRISTLE BRUSH.
- Wet the SAPI in a sink or shower using warm, not hot, water.
- Apply a mild soap or detergent to the soiled areas and scrub with a cloth or soft bristle brush. Badly soiled areas may be scrubbed with GI Soap. Scrub only long enough to remove soil.
- Heavy grease and oil stains may be pre-spotted with a dry cleaning solvent and detergent mixture and scrubbed with a soft brush.
- Rinse the SAPI with warm water until all suds are completely gone.
- Let the insert dry by itself, away from heat or open flame.

2. INSPECTION:

TURN IN YOUR SAPI INSERTS IF:

- The outer cover is damaged exposing the black ceramic tile material.
- The SAPI is cracked and you hear loose pieces rattling around when the SAPI is shaken.
- The composite back face is delaminated and the individual fabric piles are separating.

IF YOUR SAPI IS HIT BY FRAGMENTS, TURN IT IN!

3. STORAGE:

- ALWAYS clean your SAPI thoroughly before storing.
- Insert the SAPI into the OTV pockets in the same manner as when worn. This prevents loss of components.
- Store the OTV system as flat as possible to avoid bunching of materials.
- It is recommended that the system be stored in a plastic bag to keep out dirt, dust and moisture.

Caring for Your OTV

To maintain your Interceptor Tactical System so that it provides you with the maximum protection intended, it is ***extremely*** important to follow the steps below.

1. CLEANING:

- A) **DO NOT MACHINE WASH OR DRY. FAILURE TO FOLLOW THESE INSTRUCTIONS MAY DESTROY YOUR VEST.**
- B) Remove dirt from outer surface using a cloth or soft bristle brush.
- C) Remove **ALL ballistic inserts and the SAPI** from the OTV outershell and the component carriers. Soft ballistic inserts are cleaned **ONLY** by removing loose dirt from the surface with a cloth or soft brush. (DO NOT submerge the inserts in any liquid; DO NOT bleach; DO NOT machine wash; DO NOT dry clean; DO NOT apply solvents to the ballistic inserts). If ballistic inserts become wet, allow to air dry in a flat position away from heat sources and direct sunlight. If ballistic insert becomes saturated with liquids such as gasoline, bleach or other lubricants, turn in for replacement as soon as possible.
- D) Hand wash **OTV outershell and component carrier covers only** in cold or lukewarm water, using mild detergent or soap. **DO NOT USE CHLORINE BLEACH, YELLOW SOAP, CLEANING FLUIDS OR SOLVENTS, WHICH WILL DISCOLOR OR DETERIORATE THE ITEM.**
- E) Rinse the outershell and covers thoroughly in clean lukewarm water.
- F) Air dry indoors or in shade, **AWAY FROM HEAT SOURCES.**
- G) **DO NOT ATTEMPT TO DYE ITEM OR FIX DISCOLORATIONS.**

2. INSPECTION:

TURN IN YOUR VEST/BALLISTIC INSERTS IF:

- A) They have been hit by fragments or small arms fire.
- B) The outer cover is torn or damaged beyond repair.
- C) The vest is "bunched" and lumps cannot be flattened.
- D) The hook and pile closures cannot be closed completely or repaired.
- E) The webbing is torn or damaged beyond repair.
- F) The vest can no longer be adequately cleaned or is discolored.

3. STORAGE:

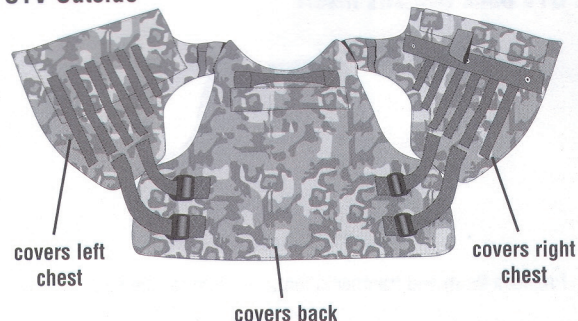
WHEN STORING ALWAYS:

- A) Clean all components and ensure they are dry before storing.
- B) Attach all components to the OTV and insert all ballistic inserts and the SAPI's into the OTV components in the same manner as when worn. This prevents loss of components.
- C) Store the OTV as flat as possible to avoid bunching of materials.
- D) It is recommended that the system be stored in a plastic bag to keep out dust, dirt and moisture.

OTV Base Vest Outershell

Back, Left Front, Right Front Pieces

OTV Outside



OTV Inside



OTV Base Vest Ballistic Panels

Back, Left Front, Right Front

OTV Back Ballistic Insert



Provides 9mm and fragmentation protection for the back.

OTV Front Right and Left Ballistics Inserts



Provides 9mm and fragmentation protection for the left and right chest and torso.

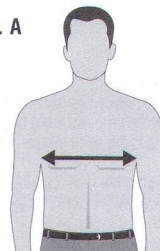
Sizing

The Interceptor Tactical System comes in five sizes and is intended to be worn over your BDU's. The system is issued based on your chest circumference measurement. The chest circumference measurement is the maximum horizontal circumference of the bare chest at the fullest part (see Fig. A below). The following sizing chart should be used to determine your proper Interceptor Tactical System size:

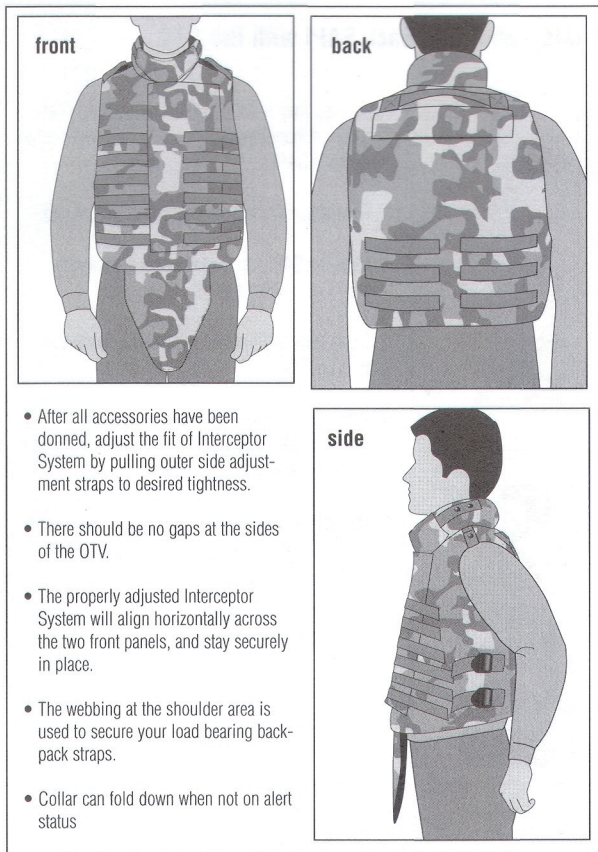
<u>Interceptor Tactical System Size</u>	<u>Chest Circumference (inches)</u>
X-Small	29-33
Small	33-37
Medium	37-41
Large	41-45
X-Large	45-49

The Interceptor Tactical System is issued as a consolidated system – i.e., a system consists of one of each component identified on pages 6 through 8 of this manual, with the exception of the SAPI plates. Two SAPI plates are issued as mission dependent. If replacement of individual components is required, be sure to replace with the correct size that matches the system. See page 25 for national stock numbers.

Fig. A

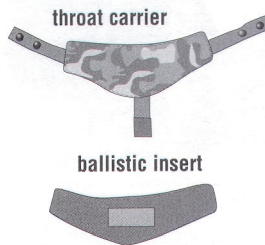


The Donned and Assembled OTV



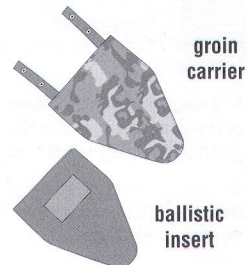
Interceptor Tactical System Accessory Components

OTV Throat Protector Carrier and Ballistic Insert



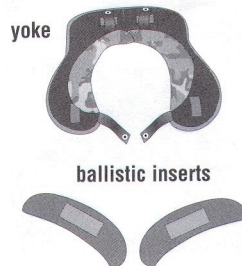
Provides 9mm and fragmentation protection for the throat.

OTV Groin Protector Carrier and Ballistic Insert



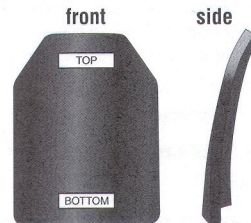
Provides 9mm and fragmentation protection to the groin area.

OTV Yoke Assembly with Collar Ballistic Inserts



Provides 9mm and fragmentation protection for the neck and shoulders.

Small Arms Protective Insert (SAPI)



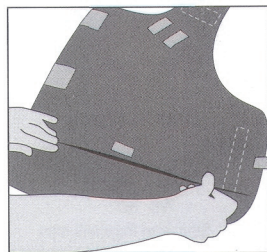
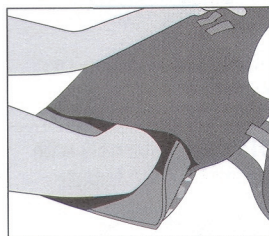
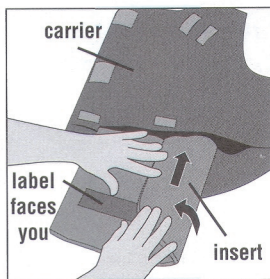
Provides amll arms (ball) protection to the vital organs in the upper torso.

Assembling Your OTV

Insert the left & right front panel ballistic inserts into the OTV.

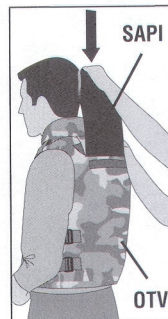
1. Lay carrier on flat surface with the inside facing you.
2. Beginning with right side outershell and ballistic panel, open ballistic pocket by separating hook and pile.
3. With the label on the ballistic panel facing you, fold side area of panel to the center of the panel.
4. Slide ballistic panel into OTV carrier until shoulder coverage slides into shoulder opening.
5. Feed the webbing strap through the carrier shoulder into the back section of the OTV carrier.
6. Unfold ballistic panel and secure side coverage by fastening pile on ballistic panel to hook on inside of carrier.
7. Close OTV carrier using hook and pile fastener.
8. Repeat these steps for left side of panel.

Failure to properly assemble your OTV can reduce the level of protection or cause interference with mobility.



Inserting OTV & Back SAPI

Integrating the Back SAPI with the OTV



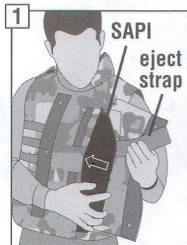
*This step may require assistance from another person, if there is not time to remove your vest to insert the SAPI.

1. Open back SAPI pocket by lifting pocket flap.
2. Slide the SAPI into pocket using orientation markings, sliding bottom in first.
3. Close back SAPI pocket by securing hook and loop on OTV.
4. It may be necessary to loosen side straps of the OTV to make it easier to close the front of the vest. Once closed, tighten the side straps again.
5. The back SAPI plate pocket flap features an opening for the water tube on the hydration system.



Inserting OTV & Front SAPI

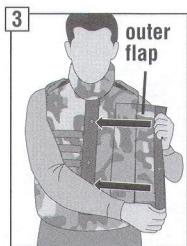
Integrating the Front SAPI While Wearing the OTV



1. Open outermost flap on OTV.
2. Open SAPI pocket flap and pull the extraction webbing inside the pocket out as far as it will go.
3. Position SAPI using "top" label markings uppermost and slide the SAPI into the pocket. As the SAPI is inserted, the webbing will slide automatically into place. Allow remaining webbing strap length to fold over when closing the flap. The webbing extraction strap is used to quickly pull the SAPI plate out of the pocket.



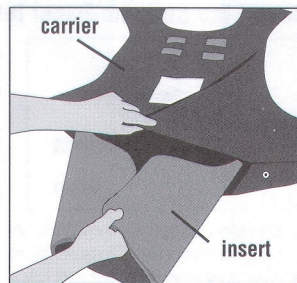
4. Close SAPI pocket by securing the hook and loop on the flap.
5. Close outer left panel of the OTV.



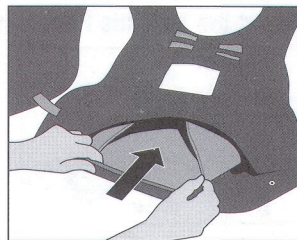
6. To jettison front SAPI, open SAPI pocket flap and pull extraction webbing strap to full extent to slide SAPI out of pocket.

Assembling Your OTV

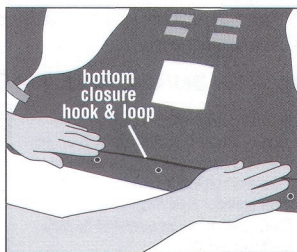
Insert the Back Panel Ballistics Insert into the OTV Carrier



1. Lay carrier on flat surface with the inside facing you.
2. Open ballistic bottom closure by separating hook and loop.
3. With the label facing you, fold left and right ballistic side coverage to center of ballistic panel.
4. Slide folded panel into back outershell, feeding ballistic panel at shoulder to meet front ballistic panels.
5. Connect back and front ballistic panels together using hook and loop webbing straps located at the shoulder. Otherwise, panels will slide to the bottom.
6. Unfold left and right ballistic side coverage.
7. Close OTV bottom closure hook and loop.

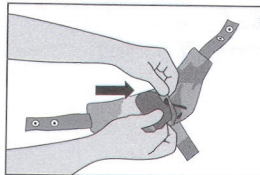
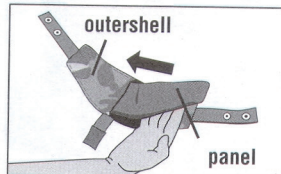


Ensure that the front and back ballistic panels meet in the shoulder area so that there are no gaps in protection.



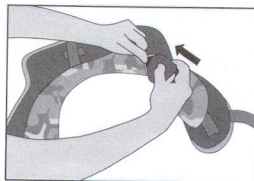
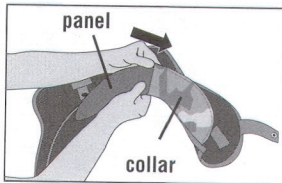
Assembling Your OTV Accessories

Insert the Ballistic Panel into the Throat Outershell



1. Lay outershell on a flat surface with the inside slit and label facing you.
2. Slide left side of ballistic panel into left side of throat protector outershell.
3. Bend ballistic insert and tuck right side of insert into right side of outershell.

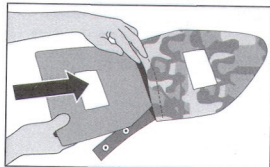
Insert the Ballistic Panels into the Collar



1. Slide left ballistic panel into longest portion of left collar outershell.
2. Bend ballistic panel and tuck into shorter end of outershell.
3. Repeat on opposite side.

Insert the Ballistic Panel into Groin Protector Outershell

1. With the label of the outershell and the label of the ballistic panel facing you, open outershell by separating hook and pile.
2. Slide groin protector ballistic panel into groin protector outershell.
3. Close groin protector outershell by securing hook and pile.



Attaching Accessory Protectors

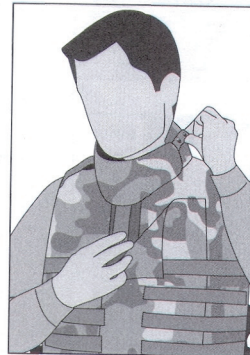
Attach the Groin Protector While Not Wearing the OTV

1. Open vest.
2. Slide groin protector attachment webbing under webbing on inside right of OTV.
3. Fold attachment webbing over and snap to self.
4. Repeat on other side.



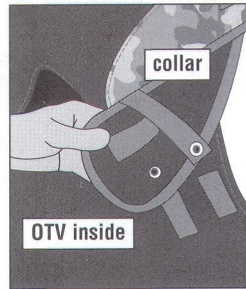
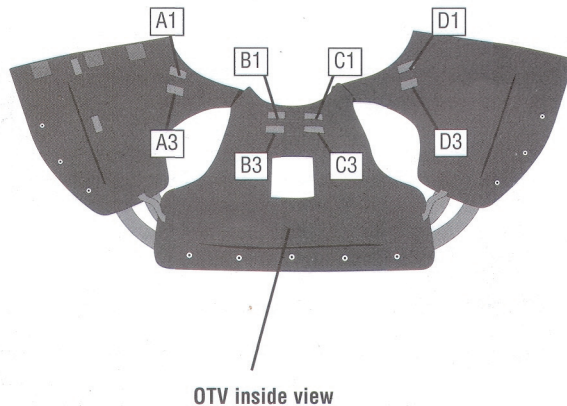
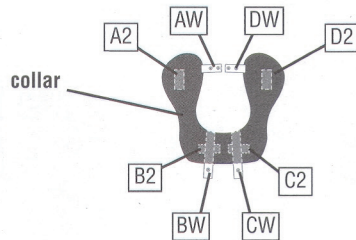
Attach the Throat Protector While Wearing the OTV

1. Using attachment webbing on throat protector, snap left side of throat protector to left side of collar at tightest position comfortable.
2. Repeat process for right side.
3. Open top section of OTV outershell.
4. Place throat protector attachment webbing hook and loop to OTV front opening hook and loop.
5. Close OTV flap to secure.

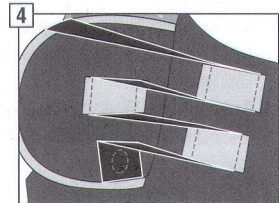
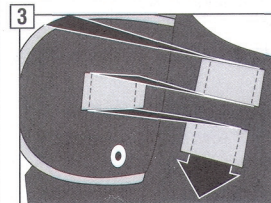
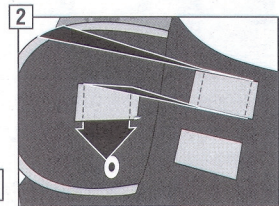
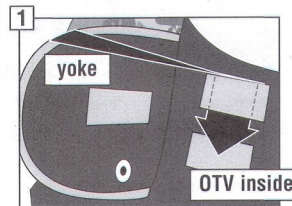


Attaching the Yoke Assembly to Your OTV

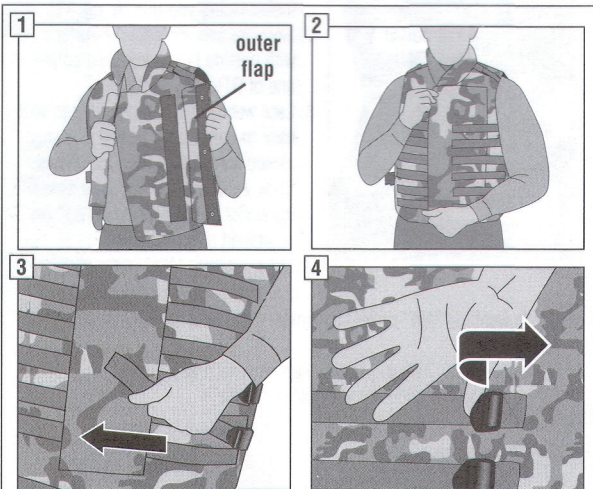
Fig. A



1. Lay OTV on flat surface with the inside facing you (Fig. A, pg. 11).
2. Lay yoke assembly on flat surface with outside facing you near collar line of OTV (Fig. A, pg. 11).
3. Lace webbing straps on collar to vest, back to collar, back to vest and snap closed for each location as follows: Slide webbing "AW" on yoke assembly under attachment point "A1" on outershell (Fig. 1 below).
4. Slide webbing "AW" under attachment point "A2" on yoke (Fig. 2 below).
5. Slide webbing "AW" under attachment point "A3" on outershell (Fig. 3 below).
6. Close snap on "AW" to partner snap on yoke (Fig. 4 below).
7. Repeat with B, C and D in alphabetical order.



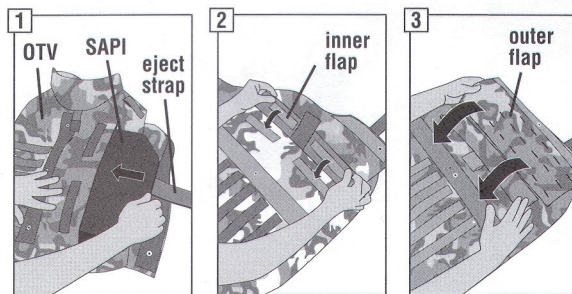
Donning and Doffing the OTV



1. After putting on the OTV, hold the left panel against your chest. With left panel's outer flap open, bring right front panel straight across and secure hook and loop.
2. Closer outer left panel flap so that hook and loop is closed. Snaps are intended as a backup closure, and only need to be secured if the hook and loop fails (example: ripped or frozen).
3. Pull forward on loose ends of outer adjustment straps at sides to tighten vest comfortably.
4. To loosen vest, insert thumb under buckle, then pull up and back.
5. If the neck is uncomfortable, or the bottom edge interferes with leg movement, the vest front closure is not properly aligned.
6. Doff by pulling fully open left front flap apart from right front flap and slipping OTV off the shoulders.

Integrating the Front SAPI While Not Wearing OTV

Integrating the Front SAPI While Not Wearing OTV



1. Open outermost flap on OTV.
2. Open vertical SAPI pocket flap and pull the extraction webbing inside the pocket out as far as it will go.
3. Position SAPI using "top" label markings uppermost and facing out. Slide the SAPI into the pocket. As the SAPI is inserted, the webbing will automatically slide into place. Allow remaining webbing strap length to fold over when closing the flap. The webbing extraction strap is used to quickly pull the SAPI plate out of the pocket.
4. Close SAPI pocket by securing the hook and loop flap.
5. Close outer left side of the OTV.