

# 3 DEPLOYMENT



NightHawk™ launches the Stop Sticks® with significant velocity. Do not activate the unit if there is any possibility the drogue could impact individuals in the path of the launch.



Launching Stop Sticks® produces a very loud noise (similar to a .38 caliber round). Make sure there are no people within 10 feet of the unit when it is activated.

Perform these steps to use the NightHawk™.

- 1 Place the NightHawk™ on the ground up to 12 feet from the edge of the roadway, oriented with the red arrow on the case pointing in the direction of the road (fig 3-1).
- 2 Release the two latches and COMPLETELY raise the lid open (fig 3-2).
- 3 Remove the hand-held remote from the case, being mindful to not actuate the Arm or Fire button (fig 3-3).
- 4 Prior to deployment, lift the switch guard (**RED**) and set the power switch to the ON position. Check the System Status indicator and verify that it is illuminated **GREEN**, indicating the unit is ready to launch (fig 3-4).



Once the power switch is set to ON, the unit is activated. Exercise extreme caution when handling the hand-held remote to avoid accidental launch.

- 5 Move to a safe location away from the roadway, making sure you have a clear line of sight to the roadway, including clear vision of the approach to the deployment location.
- 6 **IMPORTANT:** The system deploys in two seconds. Operator must anticipate the arrival of the suspect vehicle and activate the launch before the vehicle passes the unit's location. (Refer to Speed Table 2-2.)
- 7 Press and hold the ARM button on top of the hand-held remote, then press AND RELEASE the FIRE button on bottom of the remote to launch the Stop Sticks® (fig 3-5).
- 8 After the vehicle passes the unit, retract the Stop Sticks® by repeating the button sequence (Press and hold the ARM button, while pressing and releasing the FIRE button.)

**NOTE:** If you do not wish to retract the Stop Sticks®, power off the NightHawk™ unit by setting the power switch to the OFF position, to prevent accidental retraction.

PLACE UNIT 12 FEET  
FROM ROADWAY



MAKE SURE RED ARROW  
POINTS TOWARD ROAD

3-1

RELEASE LATCHES  
AND FULLY OPEN COVER



3-2

REMOVE HAND-HELD  
REMOTE



POWER SWITCH

3-3

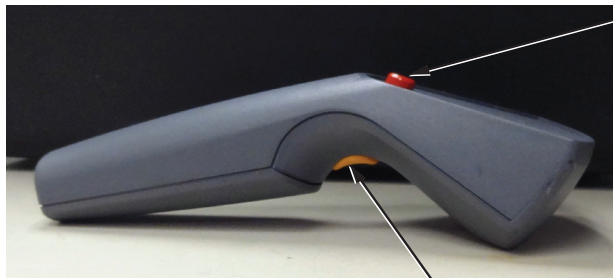
LIFT SWITCH GUARD AND TURN  
POWER SWITCH ON



VERIFY SYSTEM STATUS  
LIGHT IS GREEN

3-4

PRESS AND HOLD ARM BUTTON  
THEN PRESS AND RELEASE FIRE BUTTON  
TO LAUNCH STOP STICKS



REPEAT SEQUENCE TO  
RETRACT STOP STICKS

FIRE  
BUTTON

3-5

Figure 3. Deployment

# 4 POST-DEPLOYMENT



After each NightHawk™ deployment the unit must be taken to a secure location/depot for resetting. Do not attempt to do this from the roadway.

## 4-1. Inspection

After the NightHawk™ is used, the unit should be inspected to determine what actions must be taken to return the unit to service. If any components are determined to be damaged or defective during inspection, contact StopTech, Ltd, for replacement materials. Be sure to perform all steps in paragraphs 4-2 through 4-5 in their entirety before re-fielding the unit. If a vehicle runs over the Stop Sticks®, the segments that were impacted by the vehicle's tires must be replaced.

## 4-2. Repacking Stop Sticks®

After any maintenance or deployment, the Stop Sticks® must be repacked into the NightHawk™ case. Follow these steps to repack the unit.

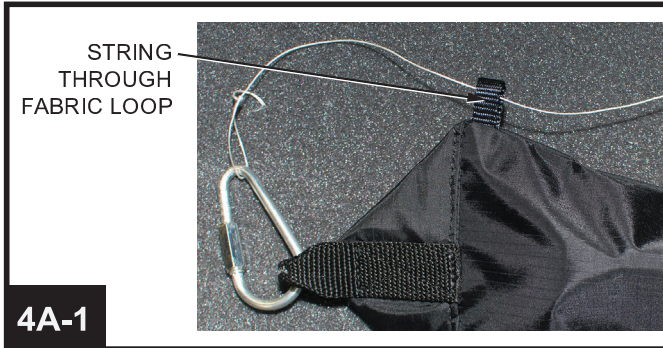
**NOTE:** It is important for the Stop Sticks® to be properly packed into the case to ensure a successful deployment. Pay careful attention to the way the Stop Sticks® are oriented in the tray.

**NOTE:** It is important to get the retraction line properly routed and secured. This will aid in packing the Stop Sticks® into the case and prevent inadvertent tangling of the line during deployment.

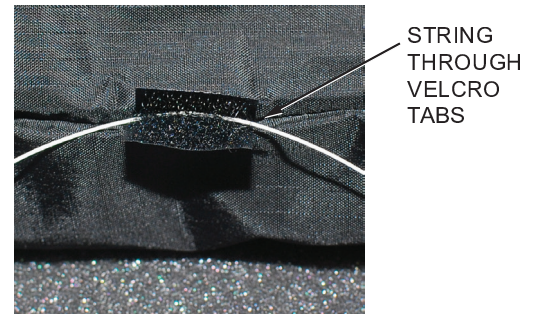
- a. Inspect the retraction line and insert through the fabric loops and Velcro tabs along the nylon sleeve. Make sure each Velcro tab is securely fastened around the retraction line (fig 4A-1).
- b. Attach nylon sleeve tether to tray using small clip (fig.4A-2)
- c. At the case, pull in tether and layer it in the bottom of the tray in back-and-forth fashion (fig. 4A-3).
- d. Place the first Stop Stick® into the tray closest to the lid as shown (fig 4A-4).
- e. Fold the nylon sleeve over and place the second Stop Stick® next to and underneath the first Stop Stick® as shown.
- f. Continue this pattern, packing the first five Stop Sticks® in the bottom of the tray, in alternating fashion (fig. 4A-5).
- g. Fold the nylon sleeve over again and place the sixth Stop Stick® on top of the bottom layer. The sixth Stop Stick® will be furthest away from the lid. Continue the folding pattern, with the last Stop Stick® closest to the lid, and directly on top of the first Stop Stick® (fig. 4A-6).

**NOTE:** When packed correctly the position of the exit clip will be facing away from the opening of the launch tube.





4A-1



4A-3



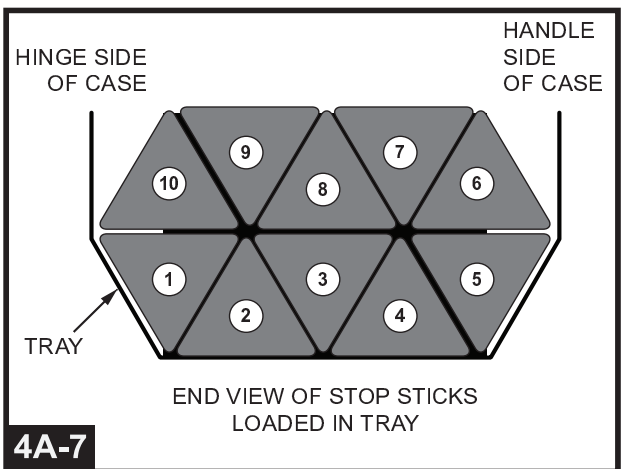
4A-2



4A-5



4A-4



4A-7



4A-6

Figure 4A. Repacking

### 4-3. Replacing Stop Sticks® and/or Nylon Sleeve

Follow these steps to replace the Stop Stick® segments and/or the nylon sleeve.

**NOTE:** The nylon sleeve is divided into five pockets, each pocket holding two Stop Sticks®. Each sleeve pocket has an opening for removing/inserting Stop Sticks®.

- a. Lay out the nylon sleeve completely in a straight line.
- b. Remove Stop Sticks® from pockets as necessary. If replacing nylon sleeve, remove all Stop Sticks and detach nylon sleeve from the clip securing it to the tray.

- c. If replacing Stop Sticks® after a deployment, carefully inspect each Stop Stick and replace any Stop Sticks® that show signs of damage.

**NOTE:** All Stop Sticks® have a squared end and a beveled end. All Stop Sticks® must be inserted into the nylon sleeve oriented in the same direction, with the squared end closest to the tether end of the sleeve (fig. 4B).

- d. Insert Stop Sticks® into nylon sleeve pockets, with the squared end of each stick closest to the tether end of the sleeve.
- e. Once all the Stop Sticks® are inserted into the nylon sleeve, refer to paragraph 4-2 and repack the Stop Sticks® into the NightHawk™.



**Figure 4B. Replacing Stop Sticks®**



## 4-4. Replacing Launch Tube



**Only trained personnel should attempt replacing Launch tube! Always ensure the end of the launch tube is pointed away from personnel and never look down the launch tube.**



Always ensure the operator replacing the launch tube has direct control over the location of the hand-held remote. Prevent misplacement and/or inadvertent operation of the hand-held remote during the reloading operation.



Read the following instructions completely to familiarize yourself with the sequence of events prior to attempting to reload the system.

Each time the NightHawk™ is activated, the launch tube must be replaced. Follow these steps to replace the launch tube.

- a. Place the unit on a suitable work surface. A suitable surface should be a little higher than waist high and capable of supporting approximately 50 pounds or more. Position the unit with the handle towards the operator, and the red arrow pointing toward the right.
- b. Open the case and make sure the power switch is in the OFF position.
- c. Remove the hand-held remote and place in a secure location near the left side of the case.
- d. Disconnect the launch tube electrical connector (fig 4C-1).
- e. Release the anchor strap by lifting the strap from its position around the button located on the deployment system bracket (fig 4C-2).



**Figure 4C. Launch Tube Removal**