

# SUBLETHAL

## Manual – Remove Weapon

2019 v1

### Introduction

Removing the weapon is only usually done when:

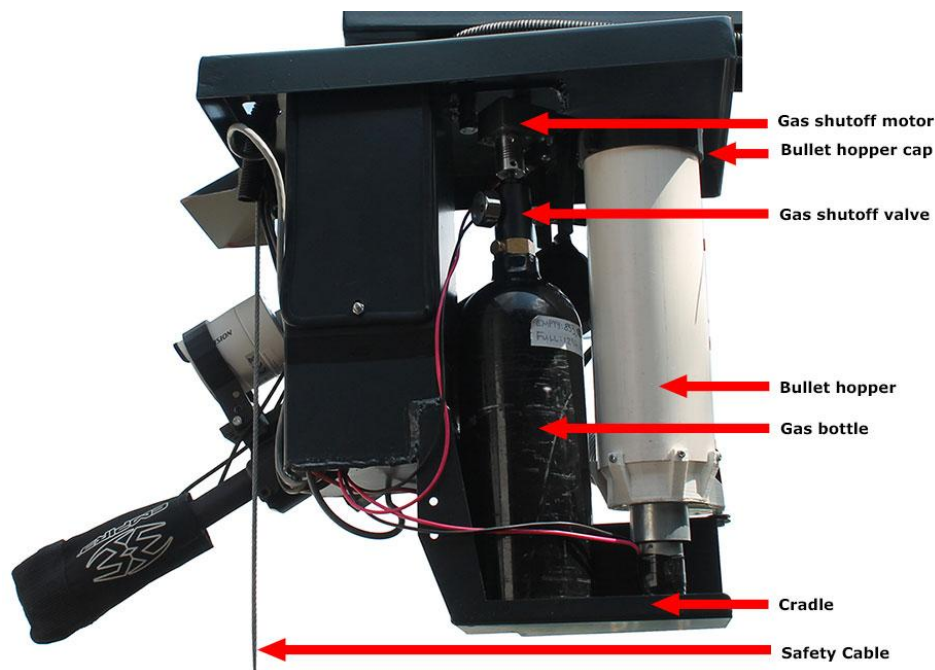
- the paintball gun needs to be maintained or replaced
- there are problems with the trigger system

### Important safety note

Bullets are held in the hopper. There is a flexible hose between the hopper and the Feed Neck on the Paintball Gun. That Hose takes 30 to 40 bullets. When the Paintball Gun is firing blanks (when it seems like it has run out of bullets) there will still be bullets in the Hose. By moving the Paintball Gun (especially downwards) bullets may feed into the gun. So, when the gun seems out of bullets, there will always be bullets in the system. Do not play with the Paintball Gun, even when it seems to be empty.

### Tools Required



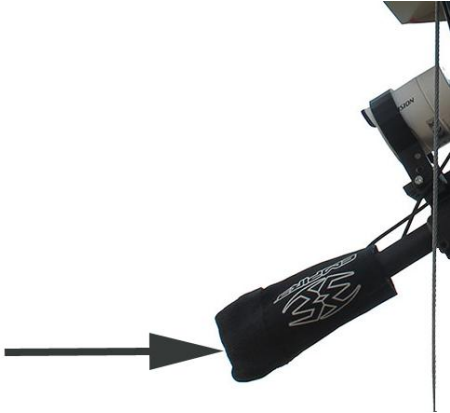
- 4m scaffolding or cherry picker or ladder
- 1 spanner (size 13)
- Muzzle cover for the paintball gun

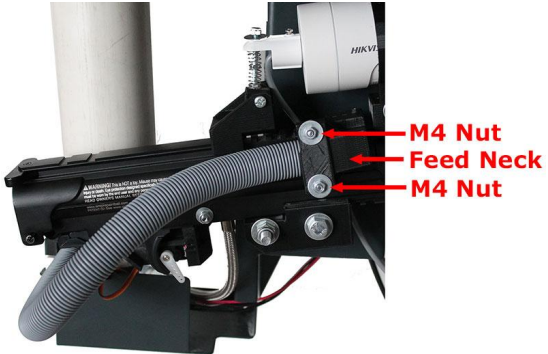
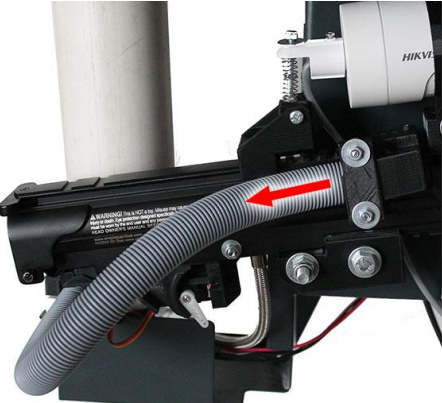



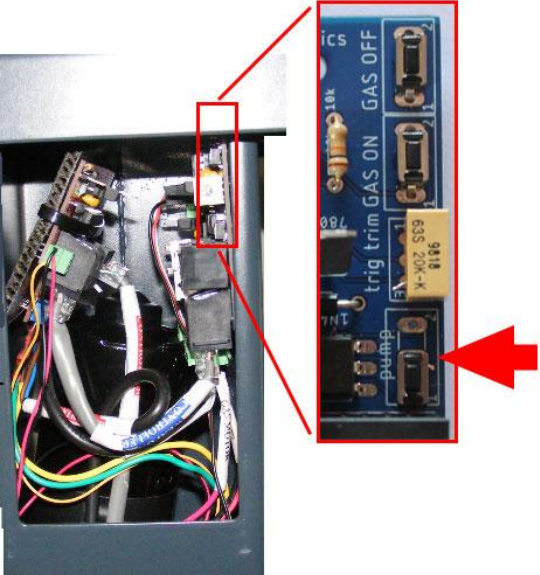
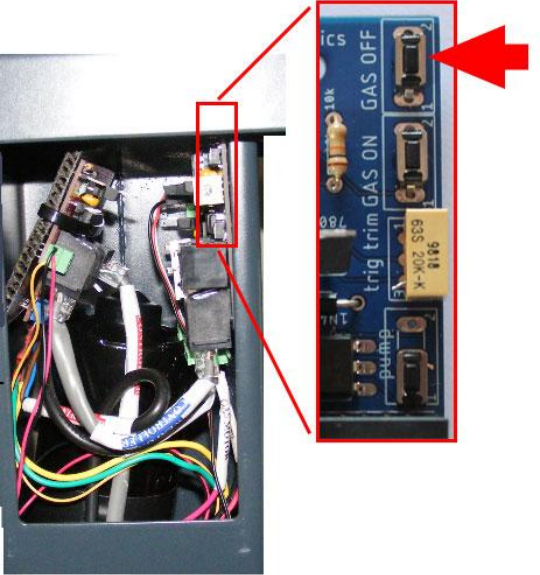
## Procedure for removing the weapon

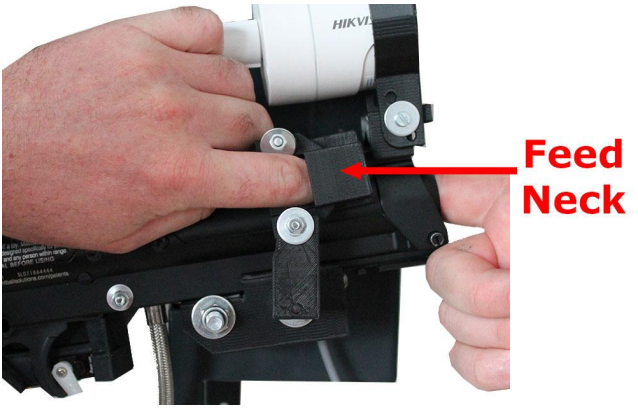
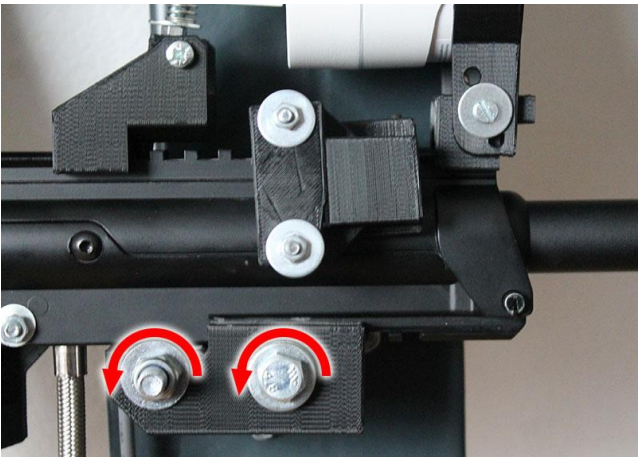
### In short:

- **unload weapon**
- **de-gas weapon**
- **remove weapon**

<b>1</b>	Ensure the safety of people and possessions before each procedure.	
<b>2</b>	Installer/ technician to switch off the HID (hand controller) and keep the keys with them at all times when working on the Remote Gun	<p style="text-align: center;"><b>Hand Controller</b></p> 
<b>3</b>	Use appropriate safety equipment such as a harness for working at heights. Wear safety glasses.	
<b>4</b>	Muzzle cover on	
<b>5</b>	Casing cover off (covering the gun system)	

<b>6</b>	Remove 2 of M4 nuts (size 7 spanner) on the Feed Neck to loosen the Hose	 <p>M4 Nut Feed Neck M4 Nut</p>
<b>7</b>	Pull out the hose and put the end in a bucket to catch bullets.	
<b>8</b>	Open the UD door (the vertical door next to the gas bottle). You might need a size 13 spanner.	 <p>Open</p>

<p><b>9</b></p>	<p>On the Weapon Controller (Blue board), press the bullet pump button to eject bullets from the Hopper. The bullet feed button is the lowest button.</p> <p>Shake the Hopper a few times while pressing the pump button to ensure that all bullets are out of the Hopper and Hose.</p>	 <p>The image shows a close-up of the blue Weapon Controller board. A red box highlights the 'pump' button, which is the lowest button on the board. A red arrow points to this button. Other buttons labeled 'GAS ON', 'GAS OFF', and 'trig trim' are also visible. A yellow component labeled '63S 20K-X' and '9418' is also present on the board.</p>
<p><b>10</b></p>	<p>On the Weapon Controller (blue board), press the GAS OFF button until the gas shutoff motor stops moving. GAS OFF should make the gas shutoff valve move upwards.</p>	 <p>The image shows a close-up of the blue Weapon Controller board. A red box highlights the 'GAS OFF' button, which is the second button from the top. A red arrow points to this button. Other buttons labeled 'GAS ON', 'trig trim', and 'pump' are also visible. A yellow component labeled '63S 20K-X' and '9418' is also present on the board.</p>
<p><b>11</b></p>	<p>Remove the barrel by unscrewing it. Check that there are no bullets in the barrel.</p>	

<p><b>12</b></p>	<p>Check that there are no bullets in the Paintball Gun by sticking your finger in the Feed Neck and the hole where the barrel fits. Your fingers should touch. It may be necessary to cock the Paintball Gun.</p>	 <p>A close-up photograph of a hand holding a black paintball gun. A red arrow points from the text 'Feed Neck' to the opening of the gun's feed neck. The gun has a white hopper on top with the brand name 'HIKVI' visible.</p>
<p><b>13</b></p>	<p>Replace the barrel by screwing it in</p>	
	<p><b>Slowly</b> unscrew the gas bottle. Note that there may be residual gas in the Paintball Gun which will escape when unscrewing the Gas Bottle. If the gas escapes too quickly it may damage the Gas Bottle O-ring, if this happens, then replace the Gas Bottle O-ring.</p>	
<p><b>14</b></p>	<p>Disconnect the CCTV connectors</p>	
<p><b>15</b></p>	<p>Disconnect the servo cable</p>	
<p><b>16</b></p>	<p>Unscrew the M8 nylock and M8 bolt shown.</p> <p>Be aware that there may be washers on the bolt on the left side of the gun.</p>	 <p>A close-up photograph of the paintball gun's internal mechanism. Two M8 bolts are highlighted with red curved arrows indicating they need to be unscrewed. The gun is black and has a white hopper on top.</p>
<p><b>17</b></p>	<p>The technician must leave the site in a safe state.</p>	