

SUBLETHAL

Manual - Gas Bottle Change

2019 v1

Introduction

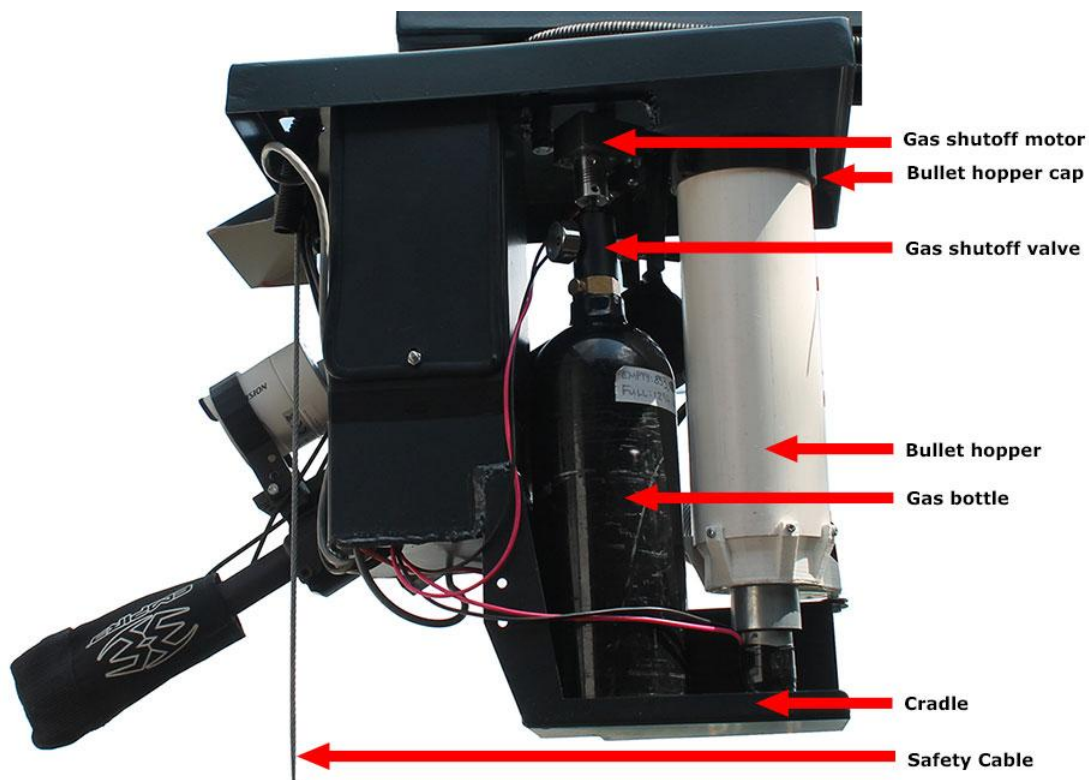
Gas bottles usually last a few hundred shots and should be replaced or refilled after every incident. Gas will naturally leak from the system, so the gas bottles should be replaced at least every 6 months.

Type of gas bottle to be used



For the Boomslang Remote Gun in warm climates a 20oz Carbon Dioxide gas bottle is used. For cold climates (temperatures below 5 degrees Celcius) a 13ci compressed air bottle (with a pressure regulator) is usually better than Carbon Dioxide.


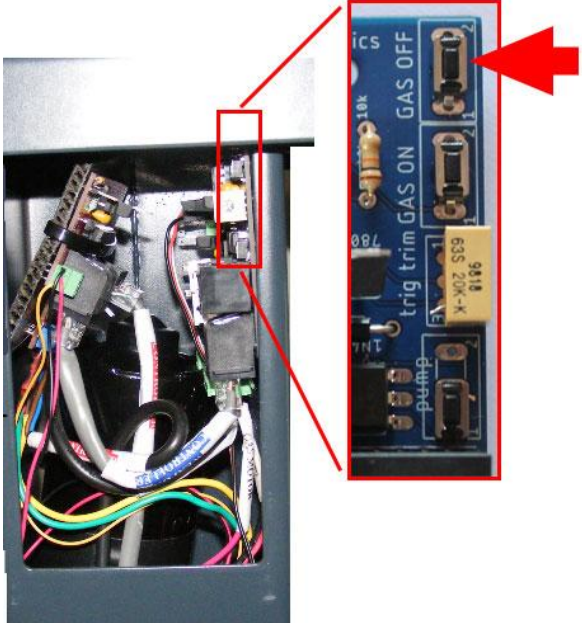
Tools Required


- 4m scaffolding or cherry picker or ladder
- 1 spanner (size 13), might be necessary if the UD door is jammed
- Muzzle cover for the paintball gun
- Spare Gas Bottle O-rings. O-rings are available from Paintball shops.



Procedure for replacing a gas bottle

1	Ensure the safety of people and possessions before each procedure.	
2	Use appropriate safety equipment such as a harness for working at heights. Wear safety glasses.	
3	Do NOT arm the Hand Controller if possible (it will damage the Gas Bottle O-ring when unscrewing the Gas Bottle). Move the Remote Gun so that the left side is facing where the technician will be working. Point the gun in a safe direction.	
4	Ensure that the Hand Controller Key Lock is disarmed and keep the key with the technician to prevent accidental shooting.	<p style="text-align: center;">Hand Controller</p> 
5	Access the Remote Gun.	
6	Put a muzzle cover on the muzzle of the Painball Gun	

7	Remove the casing by pulling the casing release pin (located inside the casing).	
8	Open the UD Door by turning the bolt anti-clockwise. A spanner (size 13) may be needed if it is jammed.	
9	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.	
10	Slowly 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.	
11	Screw in a full Gas Bottle.	

<p>12</p>	<p>Press the GAS ON button the the Weapon Controller (blue board) in short bursts until you can start to hear the gas entering the system.</p> <p>NB: now press the GAS OFF button for 2 full seconds.</p> <p>The Gas Shutoff Valve is now calibrated.</p>	
<p>13</p>	<p>Cock the paintball gun. This should not be necessary but is done anyway.</p>	
<p>14</p>	<p>Replace the casing</p>	
<p>15</p>	<p>Remove the muzzle cover</p>	
<p>16</p>	<p>Test that the gas is working properly by shooting a few test bullets in a safe direction.</p>	
<p>17</p>	<p>Put the keys back in the key switch in the Hand Controller.</p>	
<p>18</p>	<p>The technician must leave the site in a safe state.</p>	