

Mode selection is done via switches #1 and #2. Mode settings using the switches are as follows:

#1	#2	
off	off	Semi mode
on	off	3 shot mode
off	on	6 shot burst mode
on	on	Full auto mode

Rate of Fire and timing is as follows:

Dip switch #3 and #4	(registers Solenoid on times in milliseconds)
#3 #4	
off off	= 06 ms
on off	= 08 ms
off on	= 10 ms
on on	= 12 ms

Dip switch #5,#6 and #7	(registers Solenoid off (delay before re-cycle) times in milliseconds)
#5 #6 #7	
off off off	= 70 ms
on off off	= 80 ms
off on off	= 90 ms
on on off	= 100 ms
off off on	= 110 ms
on off on	= 120 ms
off on on	= 130 ms
on on on	= 140 ms

Dip switch 8 is slated for an LCD usage to display mode, cycle rate and shot count.

on = display yes
off = display no

As you see, calculating the cycles per second is easy and precise. For instance, if, S3 is off & S4 is on, S5 & S6 are off and S7 is on the rate is calculated as $.010 + .110 = .120$. A total of cycle times of $.120 = 8.33$ cycles per second (1 divided by $.120$). This is the calculation for semi-auto Cycles Per Second mode. 3 shot, 6 shot, and full-auto cycle rates are adjusted to meet the paintball industries

rate of fire maximum requirements. To calculate CPS for 3,6, and full, simply multiply the switch settings for #5, #6, and #7 by 1.5.

(ie #5 #6 #7
(ie (off off off = 70 ms) $70 \text{ ms} \times 1.5 = 105 \text{ ms}$)
example: if #3,#4,#5,#6,#7 are all switched off (which is the fastest cycle rate in any case) then the calculation would be as follows

$.07 \times 1.5 = .105$
 $.105 + .006 = .111$
1 divided by $.111 = 9.00$ Cycles Per Second

Firing the Defiant

Keep your finger out of the trigger guard and away from the trigger; point the muzzle of your gun in a safe direction at all times during this process. Be sure your goggles are securely in place. Push the on-off switch into the off position.

Always keep your Defiant pointed in a safe direction!

1. Place the empty loader onto the gun. Be sure that it is securely mounted in place.
2. Apply the compressed gas, pressurizing the gun.
3. Put the paintballs into the loader.
4. Remove the barrel plug.
5. Aim the gun at the target.
6. Push the on-off switch to the ON position, the LED will light up.
7. Place your finger on the trigger.
8. Pull the trigger with a smooth squeezing motion. **BANG...**

UNLOADING THE Defiant

Keep your finger out of the trigger guard and away from the trigger; point the muzzle of your gun in a safe direction during this entire process. *Always keep your Defiant pointed in a safe direction!*

1. Push the on-off switch to the off position the LED will be off.
2. Place the barrel plug into the end of the barrel.
3. Remove the pressurized gas from the marker carefully.