

WGP Auto/Minicocker Online Manual

Introduction Basic Operation

Adjustments:

- Regulator
- Three-Way Valve Coupling
- Cocking Block to Cocking Cylinder
- Bolt/Cocking Rod

Basic Operation

The Sniper II fires from a closed bolt. The auto-cocker system only activates during the last half of the trigger pull. The final portion activates a three way valve that allows CO2 to enter the front side of the activating cylinder. This in turn pushes the cocking block backward approximately 1" and moves the bolt and cocking rod backwards. At this time the hammer latches and a paintball drops into the breech.

The bolt and cocking assembly remains in the rearward position until you release the trigger. Releasing the trigger reverses the three-way valve. This vents the CO2 from the front of the activating cylinder and routes CO2 to the rear of the activating cylinder. The cylinder then pulls the cocking block and bolt into the forward position. The gun is now ready to fire.

The first half of the next trigger pull releases the hammer, firing the gun, and the second half of the pull repeats the above steps.

NOTE: This gun will not shoot liquid CO2. Do not use a siphon tube bottle or mount the bottle so liquid enters the gun (e.g., California Sniper or Bottom Line). You must have these styles of mounting equipped with an anti-siphon device in the CO2 cylinder prior to use.

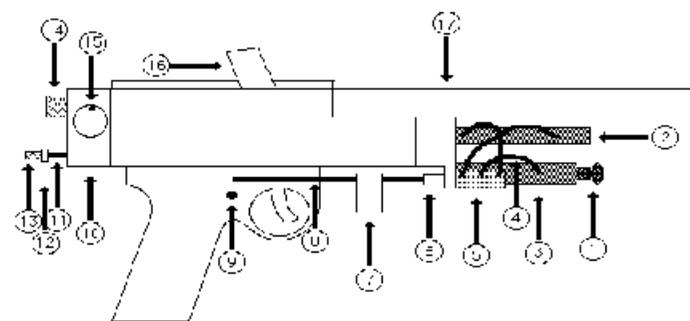
Adjustments

NOTE: Always make sure you, and everyone around you, wears eye protection when you adjust the gun or check for paintballs in the gun.

When you receive your Sniper II you must make an adjustment to the regulator before use.

Before making any adjustments to your Sniper II check the barrel to make sure there are no paintballs inside. You can do this in one of two ways. The first method is to remove the barrel from the gun and look in it. The second method is to remove the bolt from the gun, force a cleaning rod through the cocking block towards the front of the gun, then remove the cleaning rod and insert the bolt.

Once you are certain that there are no paintballs in the gun and feeder system, and you have your eye protection on, you are ready to make your adjustments. Refer to the illustration (below) and the appropriate section of this manual while adjusting your Sniper.



1. Regulator Adjustment Knob
2. Cocking Cylinder (ram)
3. Pressure Regulator
4. Low Pressure Hoses
5. Three-Way Valve
6. Three-Way Valve Coupling
7. CO2 Receiver
8. Trigger Actuating Rod
9. Safety
10. Cocking Block
11. Cocking Rod
12. Cocking Rod Bumper
13. Cocking Rod Knob
14. Bolt
15. Bolt Retaining Pin and Ring
16. Feed Port
17. Barrel

Regulator Adjustment

After checking that there are no paintballs in the gun, your first step is to locate the pressure regulator. It is housed inside the fore-grip of the gun. Slide the fore-grip straight forward to remove. Always hold the gun pointing away from you, and others, with the barrel plug installed or the barrel removed.

1. Do not remove, only loosen the knob at the forward end of the regulator (about one turn counterclockwise). If you remove the knob while the gun is under pressure, the spring and piston may fly out of the regulator. Always point the regulator toward the ground for safety.
2. Install CO2 source.
3. Pull the trigger all the way back, as if you were firing the gun, and hold it back.
4. Slowly turn the regulator adjusting knob clockwise. This causes the cocking block, at the back of the gun, to move backwards. Continue turning the adjusting knob slowly until the cocking block touches the cocking knob. Now cycle the trigger (pull and release), and continue to very slowly turn the regulator knob clockwise until it fires. It is important to cycle the gun after each adjustment of the knob. Do not turn the regulator knob any farther than it takes to cock the gun. Over-pressurizing the regulator damages the system.
5. The system requires very little adjustment after the initial setting unless there is a large temperature change.

Three-Way Valve Coupling Adjustment

NOTE: The three-way valve actuating rod should never need adjustment unless the rod is removed. Never remove the rod unless there is a problem with the air receiver or the three-way valve.

In the event the rod requires adjusting, follow these steps:

1. Make sure the barrel plug is installed and the gun does not have a paintball in the barrel or a feeder on the gun.
2. Install CO2 source.
3. There are two set screws on the coupling. Loosen the set screw closest to the trigger.
4. Slide the coupling forward until it stops. (DO NOT FORCE IT.)
5. Take the actuating rod and slide it back until it touches the back of the slot in the trigger. (Don't move the trigger backwards. Just touch the back of the slot with the rod.) Now tighten the set screw.
6. Test fire the gun, slowly moving the trigger backwards until the gun fires. The gun should fire prior to the bolt moving backwards. If it fires

properly, no more adjustment is required. If the bolt retracts before firing, repeat steps 3-5.

Cocking Block to Cocking Cylinder Adjustment

1. Make sure the barrel plug is installed and the gun does not have a paintball in the barrel or a feeder on the gun.
2. Remove the bolt and the cocking rod from the gun. Loosen the cocking block by turning the block counter-clockwise on its rod.
3. Install CO source.
4. When you pressurize the system the cylinder should retract completely (pulling the block forward). At this time there should be a gap between the cocking block and the main body.
5. Rotate the cocking block clockwise until it touches the main body of the gun. Continue rotating the cocking block until the large hole in the cocking block lines up with the large hole in the main body.
6. Install the bolt and cocking rod, and your adjustment is complete.

Bolt/Cocking Rod Adjustment

Two things affect the bolt backward travel:

1. The cocking block to actuating cylinder adjustment.
2. The cocking rod adjustment.

To check the cylinder adjustment, remove the cocking rod, pull the cocking block backward until it stops, and look down the feed tube to see if the bolt tip has cleared the feed tube hole. If it does not clear the hole, refer to the Cocking Block to Cocking Cylinder Adjustment section of this manual. If the bolt does clear the hole, the cocking rod, perform the following steps:

1. Along with the standard precautions, make sure there is no CO2 in the gun.
2. Remove the cocking rod and the bumper. Unscrew the knob from the rod. We use Loctite at the factory, so removal may be difficult. Clean the threads on the end of the rod so that the knob screws into the rod freely.
3. Begin by putting a drop of Loctite in the knob threads (Do not put Loctite on the threads that go into the gun.). Then screw the knob onto the rod, slide the bumper onto the rod, and insert the rod into the gun. Thread

the rod into the hammer, and then pull back on the cocking block until it makes contact with the bumper. Look down the feed tube to see if the bolt clears the hole. If it doesn't, rotate the knob (not the rod) counterclockwise until the bolt clears the feed tube. Allow at least 30 minutes for the Loctite to dry

4. Adjustment is now complete.

Hose Replacement

To replace the hose, follow these steps: Slide the brass clamp and spring away from the end of the hose. Remove the hose from the fitting. Cutting is usually required

1. Remove any pieces of hose left behind on the fitting
2. Cut the new hose to length with a razor blade or wire cutters
3. Slide the clamp and spring on to the new hose with the shoulder end of the clamp towards the end of the hose
4. Place the hose over the fitting and push until it is fully seated. Then force the hose clamp down over the hose. Do not crimp the hose clamp
5. Slide the spring down over the exposed hose next to the clamp
6. Back off on the regulator prior to charging the system with CO2. Then reset the regulator.

Cleaning the Gun

NOTE: Always wear eye protection.

It isn't necessary to completely disassemble your gun to clean it.

1. Remove the air source, barrel, and bolt and wash down the gun with a 50/50 solution of rubbing alcohol and water
2. Wipe down the gun with a clean cloth, or blow off the gun with compressed air
3. Lubricate the threads and all moving parts with Vaseline, then re-assemble.

This is all that you should need to do to clean your gun.

Lubricating the Auto-Cocker System

NOTE: Do not use synthetic based oil or any lubricant other than 10 weight or lighter oil. (3 in 1 or sewing machine oil is recommended.) USE OF ANY OTHER LUBRICANT VOIDS YOUR WARRANTY AND YOU BECOME RESPONSIBLE FOR ALL REPAIR COSTS.

1. Remove the CO2 source
2. Place (3) drops (NO MORE THAN THREE DROPS!) in the air receiver every three or four bottles of CO2.

Velocity Adjustment

To adjust the Sniper's velocity:

1. Remove the cocking rod (located at the rear of the gun)
2. Insert a 3/16" allen wrench until it engages the adjusting screw
3. Turn the wrench clockwise to increase the velocity, or counterclockwise to decrease the velocity
4. Turning the wrench one flat at a time changes the velocity approximately 20 fps. Always use a chronograph to verify that your gun's velocity has not exceeded the maximum safety limit of 300 fps.