



Chipley Custom Machine Economy Kit Manual

V 1.0

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II. Liability:

ChIPLEY Custom Machine and Datum Precision Machining (CCM / DPM) does not accept any liability for the handling of these markers, tools, air tanks, or any other item mentioned in this manual. You, the user accept this sole liability when purchasing and using any paintball marker or paintball accessories. We, CCM / DPM, disclaim any implied warranties or any responsibility for any errors that may appear in this manual.

If, as the user of a paintball marker or any of the accessories that CCM / DPM sells, you do not accept total liability for performing any of the maintenance, assembly, or work performed in this unofficial manual, CCM / DPM requests that you do not do anything described in this manual. You are not to use this manual unless you accept all liability and release CCM / DPM and all of its current and previous members of all liability through any use or misuse thereof.

Simply by using this manual or using the marker in general you release CCM / DPM of any and all liability associated with its use. When using a paintball marker please adhere to all local, state and federal laws.

III. Safety and Handling:

A Paintball Marker is not a toy. Any of the tools in this manual are not toys. Tools and paintball markers should be used only by adults or with adult supervision. Respect other peoples' property and when using any paintball marker, obey all local, state and federal laws. When entering a paintball field, become aware of their rules and regulations.

It is very important to have the proper paintball protection before going to the paintball field for play. This includes and is not limited to eye, head, throat, and body protection. All protection used should be designed for the sport of paintball, e.g. eye gear designed specifically for paintball usage.

Always have a barrel plug in place and keep the safety ON when handling your marker. When repairing or cleaning your marker first remove barrel and gas cylinder, then depressurize your marker by pointing in safe direction and dry firing. Always treat the paintball marker as if it were loaded.

When handling the marker, always keep your fingers or any other objects away from the trigger assembly to avoid accidental discharges. Make sure, when carrying or transporting the marker, to keep the muzzle pointed downward with a barrel-blocking device in place.

Before transporting your marker through public areas, such as airports, or bus and trains stations, call ahead for regulatory information regarding the carrying and transporting of such an item.

Remember, any paintball marker should never be pointed or fired at anyone, and should only be used at a supervised, licensed and insured paintball field.

IV. CCM Economy Pump Kit Specifications:

Materials of Pump Kit:

Pump - Delrin

Pump Guide Rod - Stainless Steel

Guide Ring - Hard Anodized Aluminum

Pump Arm - Stainless Steel

Return Spring – Not included – however one can be purchased by calling CCM.

Weight: 7.25 Ounces

Pump Handle Length: 3 1/2 Inches.

Pump Circumference: 4 3/4 Inches.

Pump Length with Rod: 13 1/2 Inches.

V. Preparation of a Standard Autococker® for the CCM Economy Pump Kit:



Schematic of a 2004 WGP Prostock® Autococker. Your 'cocker might differ – but the parts are essentially the same.

Step One:

Remove Bolt Pin and Slide Bolt from the Body of the marker and the Back Block.

Step Two:

Remove Cocking Rod from the marker.



The back of the marker as it looks after Step One and Two.

Step Three:

Unscrew the back block from the marker. You may need to flex the cocking / pump arm a little - but this is okay. In my the case of the 2004 Prostock® it takes about 10 full turns to get the back block off the marker.



Your marker will look like this once the Bolt, Bolt Pin, Cocking Rod, and Back Block have been removed.

Step Four:

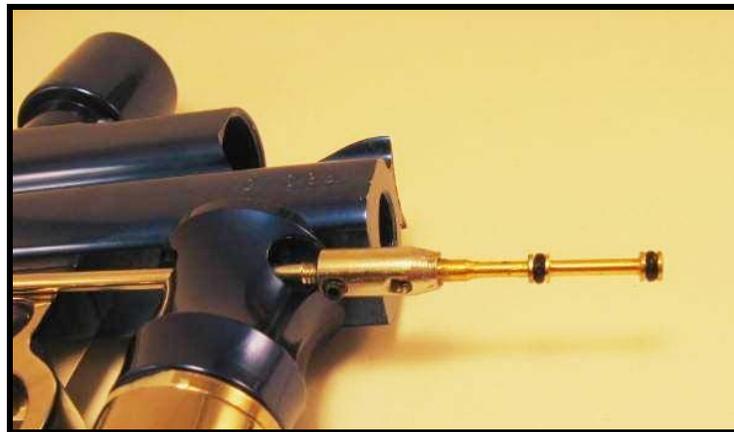
Use a 3/16th Allen Key to remove the Front Block and Pneumatics. The 3/16th Allen Key inserts into the flat headed 'Banjo' bolt in the front of the front block and with a bit of muscle comes off the marker. In the case of the 2004 Prostock® it took 8 turns to take the banjo bolt off the marker enough to take the front block off.



Note that you will not remove the banjo bolt from the front block. The front block will move away from the marker as you remove the banjo bolt and allow you to remove it.



This is what your front block and pneumatics will look like when removed from the marker. Note that the 4-way actuating rod, coupler, and spool did not come with the pneumatics. This is okay.



Step Five:

Using a .50 Allen Key remove the grub screw that retains the Actuating Rod Coupler to the Actuating Rod. Unscrew the Coupler. In my case it took 9.5 turns to remove the coupler from the Actuating Rod.



Step Six:

Using a 1/8th Allen Key remove the two screws that hold the grip frame on the marker. Slide the Actuating Rod through the Vertical Regulator Adapter and remove it. Screw the Actuating Rod back on the coupler of the pneumatics and set them aside.

Step Seven:

Replace the grip frame.



Your marker will now look like this and is ready for any pump kit to be placed on it.

Note - *I would jot down the turns to remove all of your parts for your pneumatics so that you can reset them more easily if you ever turn your 'sniper' back into a 'cocker'.*

VI. Installation of the CCM Economy Kit:

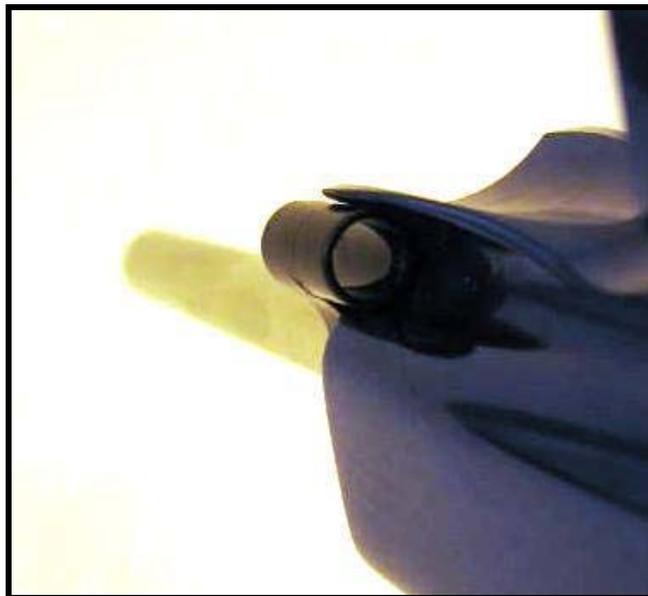
Step One:

Insert the Guide Rod and Guide Ring (being sure both o-rings are present and slightly lubricated) into the threaded portion where you removed the Banjo Bolt.



Step Two:

Begin to hand tighten the Pump Guide Rod and Guide Ring to the marker being sure the longer portion of the Guide Ring is toward the marker and nestled in the channel of the marker body that used to allow the Pump / Cocking Rod to go to the back block.



Step Three:

Insert the Pump Arm through the Guide Ring and then slip the Pump over the Guide Rod.

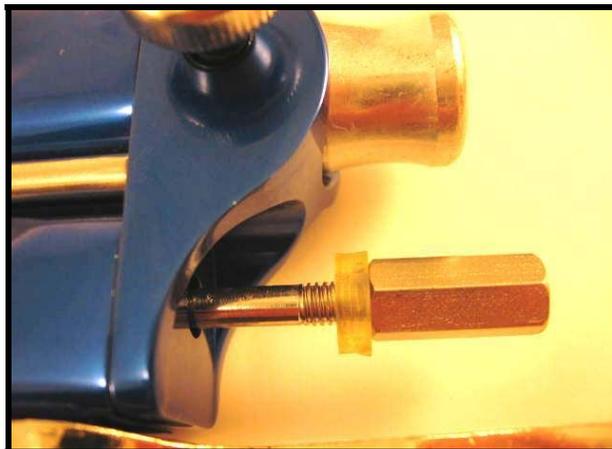


Step Four:

Screw the Back Block on to the Pump Rod until it is tight on the Pump Rod. It might not tighten down on the Pump Rod and this is not essential. Just get it close to the end of the threads.

Step Five:

Reinsert the Bolt, Bolt Pin, and Cocking Rod into the rear of the marker.



Step Six:

Adjust your Cocking Rod to ensure that the bolt clears the breech as you hear the marker recock. This should be adjusted when you get it - but with mine I had to readjust the Cocking Rod quite a bit (as you can see from the picture above).

That is it. The marker should shoot at the same FPS that you had it set at as a Cocker and should shoot great.