

# EPEK Intimidator Ram Manual



Thanks for your purchase of the EPEK ram kit from Paintballer187.com

In this manual you will find several useful tips for installation and troubleshooting your marker with your new ram, as well as sample settings to get you started.

### **What's in the box**

- EPEK Ram
- Two ram bumpers
- Stainless weight set (Two half inch, one quarter inch, one three eights inch set screws)
- CD manual
- Two sets of standard o-rings
- Light weight poppet spring
- Spring shim

### **Introduction**

EPEK rams are produced in a CNC lathe with the tightest tolerances in mind. Any products that did not meet our standards were tossed in the trash. Each ram is type III hard anodized and packaged in a protective tin.

### **How to install the ram**

1. Remove the bolt.
2. Unscrew the ram cap.
3. Slide the old ram out of the back of the gun. An Allen wrench or other thin tool can be placed through the slot in the body to help push the ram out of the gun.
4. Lube the EPEK ram and slide it into the back of the gun with the smaller end facing forward.
5. Screw the ram cap back on the gun.
6. Install the bolt in the body making sure that the pin is seated correctly. You may need to adjust the position of the bolt if you have an adjustable ram cap.

### **How to install the spring – [Watch the installation video for more help if needed](#)**

1. Open up the clamshell.
2. Remove eyes (if needed).
3. Remove frame screws.
4. Disconnect the front LP hose.
5. Remove barb (if needed).
6. Remove LPR housing screw.
7. Take LPR housing off of the body.
8. Remove old spring.

9. Insert new spring, making sure to align it correctly on the poppet. The small end fits onto the poppet; while the larger end will fit into the LPR housing.
  - If you have an Alias LPR housing (uses a set screw to hold the block onto the body) you will need to seat the included spring shim into the LPR housing before reassembling your marker. This is to keep the spring from entering the inlet hole of the housing.
10. Reassemble, starting with the LPR housing.

### **Adjusting the weights**

The design of this ram allows the user to adjust the total weight by adding and removing the stainless weights. These weights are simply threaded into the rear of the ram with a 1/8 inch Allen wrench. Overall weight can be adjusted from 14.69 grams, fully weighted, to 9.69 grams, with no weights or bumper installed. The following chart will give you an idea of how the ram's overall weight is adjusted with the stainless weights.

<b><u>Length of weights (In inches)</u></b>	<b><u>Weight Combination</u></b>	<b><u>Overall Weight with o-rings, no bumper (In grams)</u></b>
0.00	-	9.69
0.25 (1/4)	One 1/4 weight	10.41
0.375 (3/8)	One 3/8 weight	11.08
0.5 (1/2)	One 1/2 weight	11.66
0.625 (5/8)	One 1/4, one 3/8 weight	12.02
0.75 (3/4)	One 1/2, one 1/4 weight	12.38
0.875 (7/8)	One 1/2 weight, one 3/8 weight	12.99
1.00	Two 1/2 weights	13.60
1.25 (1 1/4)	One 1/4 weight, two 1/2 weights	14.39
*Bumper	-	.60

We understand that each gun is different, that is why we have these nine different settings. One gun may run fine with the lightest setting and shoot 300 FPS with an LPR of 70PSI and a dwell of 8, while another gun will need the one inch setting to achieve 300 FPS.

### **Notes**

We have noticed that 70 PSI on the LPR seemed to give the most consistent results and that LPR pressure affects velocity much more than with the stock ram. It is suggested to get an accurate gauge like a 0-160 or other Ashcroft product and not use a mini 0-300 gauge. This will help troubleshoot any potential problems that you may run into.

## **Ram Bumpers**

The bumper on the EPEK ram is designed to not mushroom out and deform like the stock ram bumper does. This results in a bumper that far outlasts the dome style previously used. Installation of these bumpers, if needed in replacement or adjusting weights, is very easy. Simply turn the new bumper into the back of the ram like it was threaded and unscrew the bumper when you need to remove it.

## **Final Check**

After you have found the best combination for your setup, it is highly recommended that blue Loctite be used to secure the weights into the ram. If this is not done the weights may unthread themselves from the ram and cause problems.

## **Quick Start Guide**

1. Install provided poppet spring
2. Add 1/2" of weight to the ram
3. Set LPR to 70psi
4. Set Dwell to 8
5. Adjust HPR to achieve proper velocity

## **Troubleshooting**

### **Low velocity**

1. Check LPR and HPR pressures and adjust accordingly.
  - Start with the LPR pressure at 70-75psi
  - Start the HPR low, slowly increase while checking the velocity over a chronograph
2. Add weight if able.
3. Replace and lube the o-rings on the ram and bolt.
4. Increase dwell, should not exceed 12 (varies from board manufacturers).
5. Make sure provided spring is installed.

### **More kick than expected**

1. Lower LPR pressure, adjust the HPR and check FPS over a chronograph.
2. Decrease weight if able.

## **Contact**

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Contacts through PM or email will get the fastest replies.

## **Guarantee**

If you are not satisfied with the reduction of kick or the quality of the product, return it within 30 days for a complete refund.