Daytona Gun Airsoft:
Adding and Removing Plunger Shims



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Basic Information

Introduction

This brief guide will show you how and why to add or remove plunger shims for your Daytona Gun build.

Model Relevancy

This guide applies to all Daytona Gun Airsoft kits.

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What You Need

- Any necessary tools for disassembling your build
- Brass or steel 1mm or 2mm plunger shims (see Daytona Gun Airsoft website)

The Process

Why Add or Remove Plunger Shims?

The process of adding or removing plunger shims is useful in troubleshooting the following issues with your build:

- Dealing with much lower-than-expected velocity in both semi and full automatic modes
- Dealing with BBs rolling out of your barrel even with a large amount of hop up applied
- Dealing with feeding issues
- Dealing with poor hop up effect in full automatic

Accessing Your Bolt Tank and Adjusting the Number of Shims

These steps are highly generalized to apply to all Daytona Gun Airsoft kits. Please refer to the installation manual for your specific kit for more detailed information.

1. Disassemble your build to the point where the bolt carrier can be removed from the donor body
2. Remove the bolt carrier from the donor receiver
3. Add or remove a shim from the back of the plunger inside the bolt tank. See image for position



4. Reassemble your build
5. Test the result

When to Add or Remove Shims

See the sections below for the best situations to add or remove shims, and the expected results from doing so.

Adding Shims

Situation	Effects/Explanation
Low power/Rounds roll out of barrel	The airshaft pushes BBs too deeply into the bucking, or even past the bucking. This spaces the airshaft back so that it cannot enter the bucking as deeply, and thereby also prevents the BB from going too deep.
Gun feeds sporadically or not at all	Adding a shim spaces the airshaft backwards at the start and end of its travel. If the airshaft doesn't go back far enough, and all other feeding fixes have been attempted, this secondary method may offer improved results.

Removing Shims

Situation	Effects/Explanation
Low power, often in both fire modes	The airshaft does not enter the bucking deep enough to provide an adequate air seal. Removing one or more shims allows the airshaft deeper into the bucking, usually improving air seal and thereby improving muzzle energy.
Poor hop effect	Removing one or more shims better positions BBs against the contact patch, allowing for both better hop adjustment and hop effect.