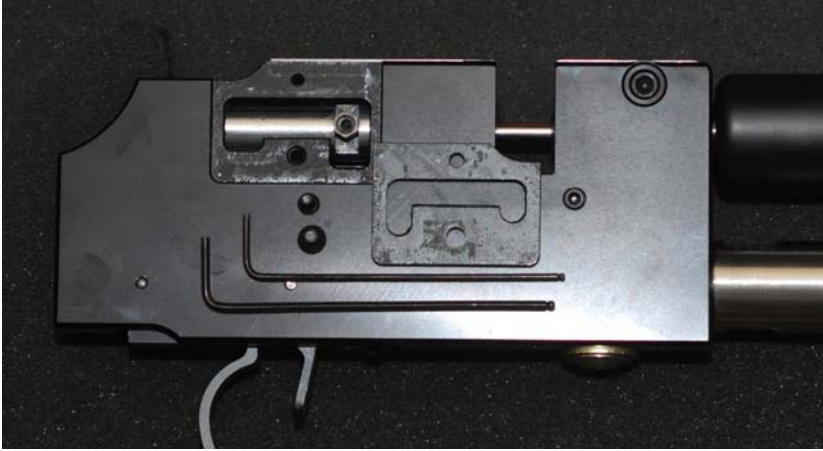


Disassembly of the Rapid Bolt

This guide to pulling apart the Rapid Bolt assumes you have new style MKII
This means you have the new style Bolt (only early MKI had the older style)
And the receiver has the cutout under the Bolt Gate Plate to remove the Cocking-dog!!.
On the earlier model of the Rapid, you will have to remove the trigger first, to get to the
Cocking-Dog!



First remove the Bolt Handle

Next remove the top and bottom screws securing the Bolt Gate to the receiver.

Now you can see the machined notch. This allows access to the Cocking Dog!



Rotate the Bolt So the Cocking Dog is facing you in the notch and remove it.

Now you can slide the Bolt assembly out. Wipe off the grease on the bolt and clean it





Looking at the Bolt assembly from the front (probe) end,
You can see the internal snap-ring the secures the probe assembly



Using snap-ring pliers, remove the snap-ring to release the probe assembly
The probe assembly will now slide out.
This consist of the Inner and Outer Probe, Probe Spring, and Sealing Washer
Tip the front end of the Bolt down and the tension rod should slide out



Just for reference, here are the Tension and Set Screws to the Bolt.
Normally you would only remove them to clean and re-oil them!



This new bolt set-up is fitted in all Rapids built from January 2000 onwards



Shown here is the fully disassembled bolt.

It consists of:

(From top to bottom, left to right)

1. Tension Adjustment Screw
2. Tension Rod
3. Bolt Body
4. Snap-Ring
5. Tension locking set screw
6. Inner Probe
7. Sealing Washer
8. Probe Spring
9. Outer Probe

To reassemble your Rapid Bolt, just reverse the above procedure.

To readjust the bolt, follow the procedure outline by Theoben

Here are their instructions:

Rapid Bolt Assembly Instructions

Grease bolt bore with a smear of Morris K62, Duckhams 05795 or similar Molybdenum based grease. Place in the bolt stem (9c) with the bolt washer (9k) cup-shape-up, followed by the spring (9d) and bolt probe (9b) in the bolt bore and secure with the circlip (9e).

Turn bolt upsidedown and drop in adjustment rod (9r) - this should drop right in and stop on the underside of the bolt stem (9c). Put a line of pink Loctite 222a (or similar minimum strength compound) along the 5/8" long 2ba adjustment grub screw (9s). Using 3/32 allen key screw into bolt body (9a) until it is flush with the base.



This new bolt set-up is fitted in all Rapids built from January 2000 onwards

Fitting and adjusting

Grease assembled bolt and slide into Rapid body. Fix bolt handle* (9) in place using red Loctite 221 and tighten with 3/16 allen key. Fit barrel as normal - flush with Rapid body magazine slot and fully tighten clamp and location screw.

Lock down bolt in forward position and slowly screw in 2ba adjustment grub screw (9s) until it starts to feel harder to turn. Screw in between 1/8 and 1/4 a turn more. Then test the feel of the lock-down. If it is too light air may 'puff' out of the magazine slot when the rifle is fired with a pellet in the barrel. If it is too heavy it will be difficult to lock down. Continue adjusting if required, only move the adjusting screw in or out about 1/8 to 1/4 of a turn at a time and then check again.



For fine adjustment of weight of bolt lock-down, screw in or out an 1/8 to a 1/4 of a turn at a time and then check.

Note***

Theoben left one thing out; Don't forget about the Locking Setscrew on the side of the Bolt!!!



One last comment about working on the Bolt of your Rapid. If you are needing change the Outer Probe during a Caliber change.

This can be done without removing the bolt!

When you pull the barrel, you do have access to the Snap-Ring.

After you pull the barrel, lock the Bolt in the forward position.

Looking down the barrel channel you can see the Snap-Ring. Using a Right angle snap-ring pliers

You can remove the Snap-Ring!!