



## Tippmann A5/X7 Bolt & Power Tube Install

**NEW DeSIGNZ** and its staff would like to Thank you for choosing our performance accessories. We provide performance aftermarket upgrades for Tippmann's and many other markers. Look to NDZ for quality upgrade made in the U.S.A.

**Tools Needed:** 3/16" allen key (stock), 5/32" allen key for NDZ power tube and lube

Ok, before we start. **CAUTION:** Disconnect any air source on your marker and shoot any residual air from within the marker.

1. Remove push pins as shown in Fig 1 or Fig 2. Then remove the grip frame. #4 pin is the short one (X7 only) A5 are all the same size.
2. Unclip or remove airfeed into marker, just below pin #2 on A5
3. Grip should come off easily, be careful no to loose or make the trigger assembly come apart. There is no screw or anything that holds it together. Be careful.



FIG. 3

1. Now, using an object other than metal, push rearward from the bolt or barrel side as shown in Fig. 4
2. Pushing rearward will remove the whole bolt assy. Should you mix up any parts, please refer to your owners manual or look at it as you remove it.



FIG. 4



FIG. 1



FIG. 2

1. Make sure the velocity adjustment screw is turned inward far enough so you can slide the Power Tube out of the body.
2. In Fig. 3 remove magazine first
3. carefully remove the grip frame
4. slide magazine housing rearward to remove it from the body

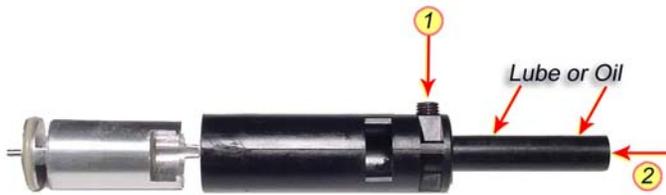


FIG. 5

1. Looking from the bottom **Fig. 6** push the assy forward.
2. Push on the back of the power tube #1, forward in the direction shown until fully seated or until the power tube cutout lines up with the body properly
3. reinstall tombstone, secure it in place with one of the long push pins. Give it a slight pull to make sure its locked in.
4. On X7, reinstall magazine base, slide it forward to lock into place.
5. reinstall grip frame using 1 long pushpin near the air inlet
6. reinstall drive spring, spring guide pin and install rear end cap assy. Install small pushpin on top, longer one on the bottom. **(spring & guide pin need to be in center hole of end cap.)**
7. Properly set velocity to under 300fps, or per your field requirements.

Now, go out and have some fun. Thanks again from all of us at NDZ..

1. If your replacing just the bolt, do that now. Slightly lube in area shown & inside of bolt. Now simply reassemble in reverse.
2. To replace the power tube see **Fig. 5**. Back out the velocity set screw that's inside the power tube, shown as #1.
3. Using either a pen or similar gently push out the valve from the front #2
4. Insert your valve in your new power tube, make sure window area lines up in the power tube
5. screw you velocity screw to just below flush
6. reinstall bolt to power tube assy, reconnect bolt to hammer w/ linkage arm
7. make sure power tube (inlet/ cutout) is facing to the bottom. See **Fig. 6**



FIG. 6