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Crosman 13xx/2289 Roll Pin Removal

Used as the first step for 13xx Valve Installs

In the shop, I remove Crosman roll pins several times per week. Although I understand that not everyone has access to a bench vise, I've found this is the quickest, most certain way to press out a roll pin, while causing minimal to no damage to the main tube finish.

Summarily, you are using the vice as a makeshift press to push the roll pin out of the gun. You are using a piece of scrap wood with a hole drilled into it for the pin to have something to go when pressed out and you are using a nail or screw to do the driving itself.

Requirements:

1. Bench Vise.
2. Piece of scrap wood (2x4 works well).
3. Random wood screw or similar nail with diameter slightly smaller than roll pin hole.

Removal:

- 1) Drill a hole slightly larger than the roll pin into your scrap wood.
 - a. Drill approx 1/2" from the wood's edge.
 - b. Also, the hole needs to be at the same height as the vise jaws when the wood rests on the vise arm.
 - c. The hole location is important (see photos) so that you can drive the pin out in a straight, level fashion.
- 2) Position wood on vise arm as shown in photo 2.
- 3) Position your gun so that one side of the roll pin protrusion rests in the wood hole.
 - a. I don't think it matters, but I've found that positioning the gun upside-down, as shown, allows the pin to push out easier than if it were right side up.
- 4) Position screw (or nail) into opposite end of roll pin. It helps if the threads catch on the pin to hold it in place, but it's not necessary.
- 5) Gently tighten vise against screw.
 - a. Make sure everything is level. If the gun or screw is angled, it will pop out and scratch the finish.
- 6) As long as everything is level and the pressure is in equilibrium, tighten vise to push screw into pin, through pin hole and into wood.
 - a. Your pin will slide right out and you can then work the screw out and you're done.
- 7) Having done this 100's of times, I can drive a pin out in about 15 seconds from start to finish.

Notes:

The forearm pins can be pressed out in a similar, smaller scale fashion, though it's a royal pain. Reinstallation of the pin can be performed in basically a reverse order of the steps above.

If you don't like the roll pin (and who does), check out my Shoulder Bolt mod on alliancehobby.com.



Photo 1



Photo 2



Photo 3