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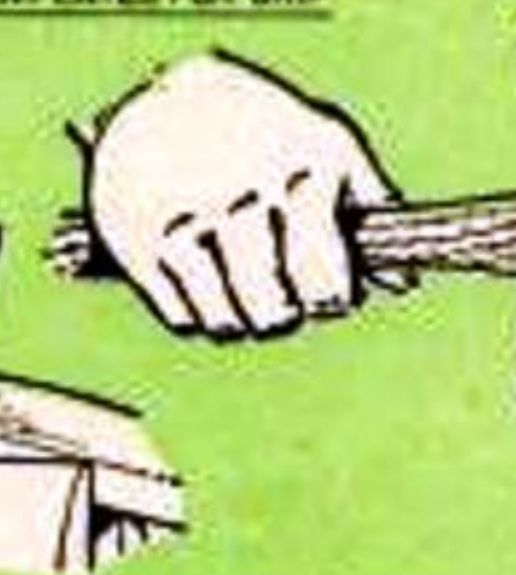
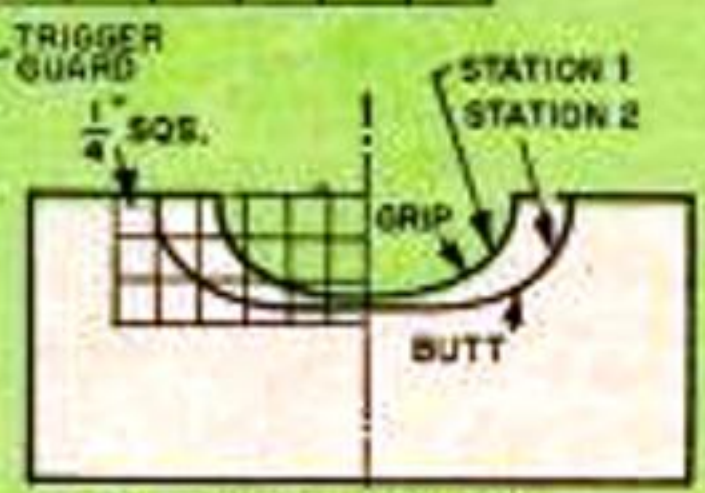
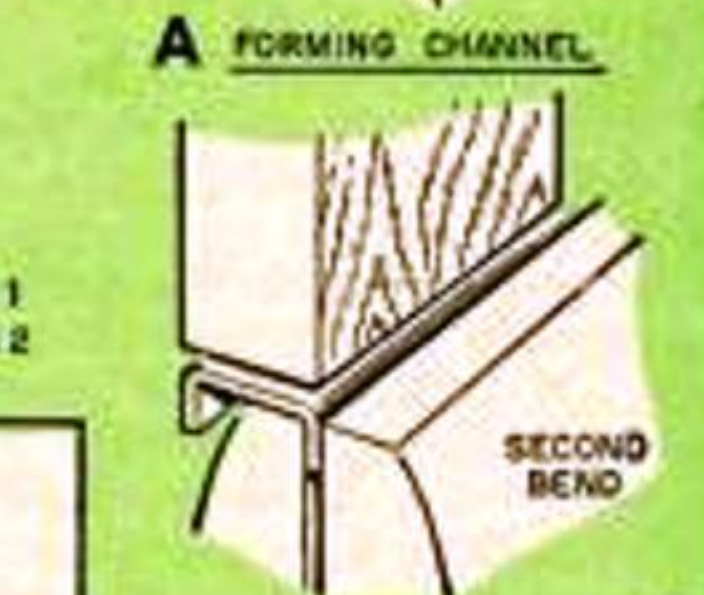
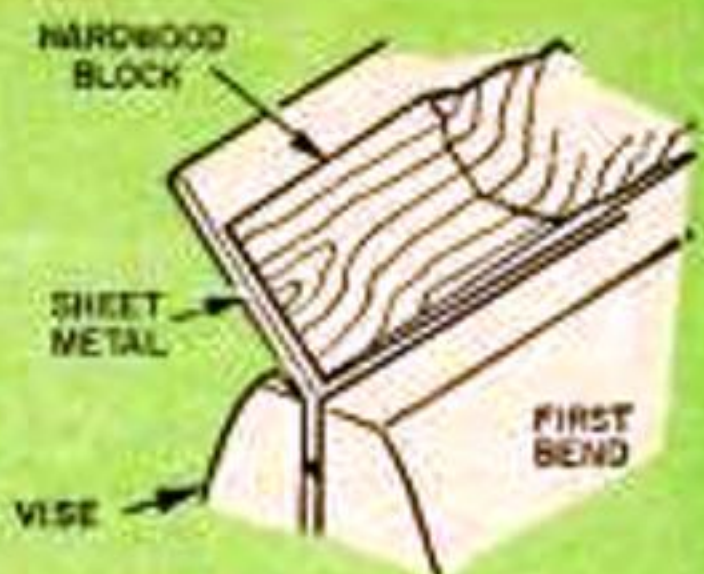
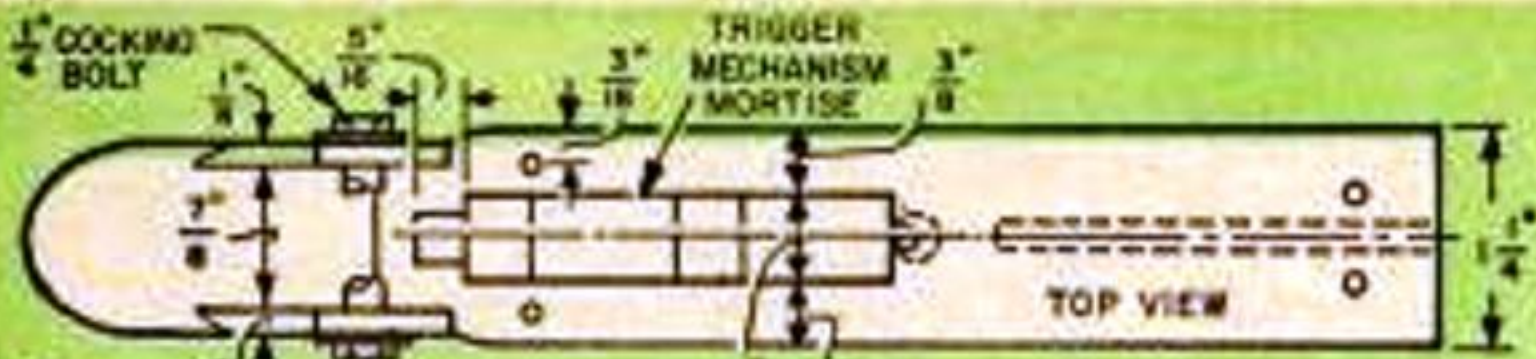
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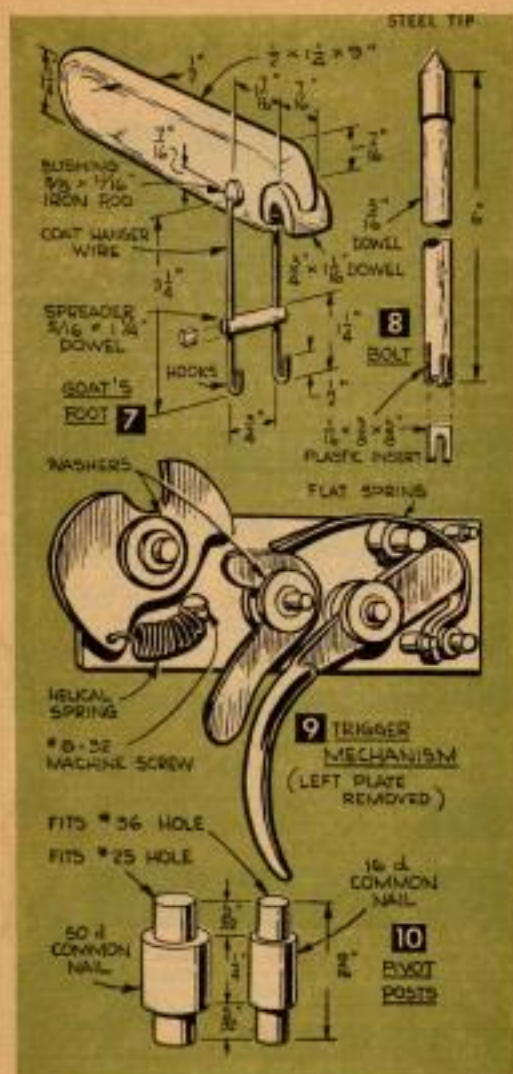


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STOCK

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MATERIALS LIST—PISTOL CROSSBOW

| No. | Req'd | Size and Description | Use |
|-----------------------------------|---------------------------------------------------|---------------------------|--------------------------|
| WOOD STOCK | | | |
| 1 | 1 1/2 x 3/4 x 31 1/2" | hardwood | pistol's stock |
| 1 | 1/2 x 1 x 9" | hardwood | goat's-foot handle |
| 1 | 1/2 x 3/4 x 1 1/2" | hardwood dowel | handle pivot |
| 1 | 1/2 x 5" | hardwood dowel | grip |
| 1 | 1/4 x 1 1/2" | hardwood dowel | cocking-hook spreader |
| 2 | 1/4 x 36" | hardwood dowels | bolts |
| METAL STOCK & HARDWARE | | | |
| 1 | 1/8 x 1 x 20" | hot or cold rolled-steel | metal parts |
| 1 | 1/4 x 1 1/2 x 6" | sheet iron | channel |
| 1 | 1/4 x 3/8 x 4" | steel or aluminum | trigger guard |
| 1 | 3/8 x 1 1/4" | cold rolled steel rod | goat's-foot hook bushing |
| 1 | 1/4 x 3" | steel rod | trigger |
| 1 | 1/4 x 36" | steel aircraft cable | bow string |
| 1 | spool of #28 bird wire | | loop binding |
| 1 | coiled engine-head hinge spring (three junk yard) | | bow |
| 1 | 1/4 x 1 1/4" | hex bolt, washers and nut | cocking bolt |
| 2 | #6-32 x 1 1/2" | fin mach. screws and nuts | |
| 1 | #8-32 x 2" | fin mach. screws and nuts | channel, bow clips |
| 1 | #8-32 x 1/2" | fin mach. screw | helical-spring anchor |
| 1 | 1/2 x 7" | lag screw | bow clips |
| 3 | #6 x 3" | fin wood screws | channel, trigger guard |
| 1 | one #8 helical spring | | wheel return |
| | several #6, 16d, 50d common nails | | pinot posts, rivets |
| | nair carrier spring, bair wire | | |

Pistol Crossbow

(Continued from page 97)

clips and channel to the stock.

To Make the Channel detailed in Fig. 2A, bend 1/8-in. sheetmetal as shown in Fig. 3A, then trim and file the upper edges. Cut the notch at the rear of the channel with a file and drill the holes for the screws. The center screw also serves to fasten the forward end of the trigger guard, while a couple of round-head wood screws near the back bear against the sides of the channel, their heads bearing on the top edges.

Make the trigger guard from 1/4 x 3/8-in. steel or aluminum bar stock, bending it as indicated in the drawing of the gun stock.

In assembling the pistol, place the trigger mechanism into its mortise, set the channel on top of the stock, insert the screws, then add the bow, clips and trigger guard as shown in Fig. 2.

Make the bowstring (Fig. 6B) by bending one end into a loop just large enough to slip over the end of the bow. Holding the loop in a vise, wrap half the length of the short cable with spooled binding wire. Then fray out the cable end, bend the strands back over the binding and wrap these also with wire.

Make the Cocking Loop (Fig. 2B) from coat-hanger wire and slip it in the bowstring before binding the other loop. To "brace" or string the bow, make a jig from scrap wood as in Fig. 4. The bolt on the end of the jig presses against a piece of metal set between the cocking plates. As the bolt is tightened the forward end of the jig is pulled against the bow, bending it. Further bending can be achieved by driving wedges between the jig and bow. Slip the bowstring loops over the bow ends, and to keep them from slipping out of the bow nocks wrap binding wire behind the nocks, around to the front and then back over the bowstring loops. Twist the wire ends tightly and cut them off short.

The Goat's Foot or cocking handle (Fig. 7) is shaped from hardwood and fitted with a half cylinder made from a hardwood dowel which bears on the cocking bolt. The hooks are bent from coat-hanger wire passed through an off-center hole in an iron bushing. A spreader made from a dowel is fashioned to make a sliding fit between the hooks and the outer edges of the channel. The goat's foot cocks the crossbow by drawing the bowstring back and setting it in the wheel notch which is attached to the trigger mechanism. Once the crossbow is cocked the goat's foot is removed. For easy carrying, the goat's foot can be fitted with a hook and you can hang it from your belt.

Finish the wooden parts of the pistol and the goat's foot with three coats of floor sealer. Polish the metal parts and blue them with bluing compound obtainable at gun shops. ■