



CROSMAN

Air-Powered

MODEL - 109-.177 Cal. **PELLET RIFLE**
MODEL - 110-.22 Cal.

"POWER WITHOUT POWDER"

INSTRUCTIONS AND PARTS LIST

CROSMAN ARMS CO., Inc.

Valve Testing Procedure

If your rifle fails to hold compression, test as follows: Cock rifle by pulling back bolt until it clicks, push bolt in and lock. Pump four strokes and insert muzzle end in a container of water. If no bubbles appear, the exhaust valve is functioning properly.

Test for check valve: Open pump lever until plunger cup is behind air vent hole. Without moving pump lever apply moistened finger to air vent hole. If no bubbles appear, check valve is functioning properly.

To Clean or Replace Valves

1. Remove take down nut (T-41), detach stock (T-44).
2. Remove 3 screws, T-18 and T-19, detach spring stop T-12.
3. Remove hammer spring T-16, hammer spring guide pin T-17 and hammer T-15.
4. Remove cocking screw T-5 from breech bolt T-6, remove breech bolt.
5. Drive out front sight pin T-1, striking unknurled end of pin. Detach front sight T-10, pull out pump and lever assembly.
6. Insert a 3/16" rod into front sight pin holes of pump tube T-11 for holding. A log or clamping will cause distortion. Remove valve nut T-27 with special wrench.
7. Insert 3/16" round x 22" long rod into front sight end of pump tube. Enter with care into bore of compression chamber. Push to remove, exhaust valve body T-26, exhaust valve stem assembly T-25, exhaust body gasket T-24, check valve spring T-23 check valve assembly T-22.
8. Clean chamber with a cloth swab on a wooden stick (metal should not be used - damage to chamber seat will cause leaking). Wipe valves and exhaust valve body, use care to prevent damage to all valve surfaces.
9. Drop in check valve assembly T-22, check valve spring T-23. Attach gasket T-24 to exhaust valve body T-26, insert stem T-25 into exhaust valve body. Push exhaust valve body and attached parts into place, lining up blind hole with hole in underside of tube, holding in position with 5/32" rod. Insert and screw valve nut T-27 into tube, tighten for air seal, holding assembly with 3/16" rod through front sight pin holes. Remove the two rods.
10. Replace breech bolt T-6, screw cocking screw T-5 into breech bolt.
11. Drop in hammer T-15, spring T-16 and spring guide T-17.

12. Insert hammer spring stop T-12, replace screws T-18 and T-19.
13. Install pump and lever assembly and front sight T-10 drive in pin T-1 (plain end first).
14. Replace stock T-44, secure with take down nut T-41.

To Replace Pump Cup

1. Remove front sight pin T-1 (drive on opposite side of knurled pin) and front sight T-10.
2. Pull out pump mechanism.
3. Put pump rod T-14 in vise, loosen pump lock nut T-13, and felt retainer T-33. Slide back pump spacer T-35 and pump cup T-36, unscrew compression head T-37 from rod.
4. Clean compression head T-37 and spacer T-35 (must be free from oil and grease).
5. Replace with new pump cup T-36.
6. Tighten compression head T-37 to rod T-14 and tighten felt retainer T-33 moderately to hold pump cup T-36. Lock assembly with pump lock nut T-13.
7. Insert and adjust pump to obtain maximum air intake.
8. Replace front sight T-10, and pin T-1. (Insert plain end first).

Lubrication

For lubrication purposes use only Crosman "Lubro 90" a special lubricant developed by our engineers. Do not oil through air intake hole in pump tube. Remit 25¢ in stamps for a large tube. In an emergency if Crosman "Lubro 90" is not available use a superior grade light oil. Do not lubricate pistol excessively as oil collects dust and grit.

To Remove Pellets from Plugged Barrel

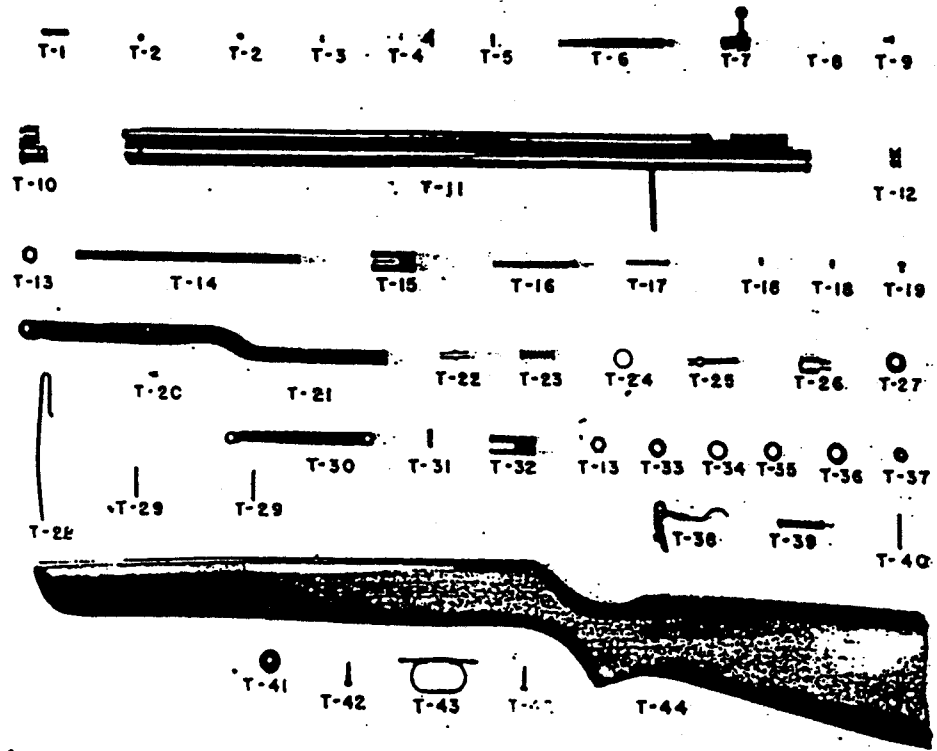
If for any reason a pellet or pellets become jammed in the barrel insert a 5/32" flat end round rod at muzzle end and gently tap out pellets. DO NOT ATTEMPT TO REMOVE PELLETS BY MELTING OUT OF BARREL.

To Release Overpumped Unit

Remove stock, turn gun unit with slot up, exposing floating hammer, place 3/16" rod against back edge of hammer, strike rod to release air, replace stock.



**Component Parts for
Crosman Town & Country Jr. Rifle
.177 and .22 cal.**



Parts	Prices	Parts	Prices
T-1 Front Sight Pin . . . . .	.20	T-23 Check Valve Spring . . . . .	.20
T-2 Rear Sight Screws . . . . .	.10	T-24 Exhaust Body Gasket . . . . .	.05
T-3 Rear Sight Elevating Screw . . . . .	.10	T-25 Exhaust Valve Assembly	1.00
T-4 Rear Sight . . . . .	.25	T-26 Exhaust Valve Body	1.25
T-5 Cocking Screw . . . . .	.10	T-27 Valve Nut . . . . .	.25
T-6 Breech Bolt . . . . .	.50	T-28 Lever Spring . . . . .	.40
T-7 Breech Bolt Lock Assembly . . . . .	.30	T-29 Forearm Pin . . . . .	.10
T-8 Spring Washer . . . . .	.05	T-30 Lever Link . . . . .	.50
T-9 Hammer Lock Screw . . . . .	.15	T-31 Plunger Guide Pin . . . . .	.10
T-10 Front Sight	1.00	T-32 Plunger Guide . . . . .	.40
T-11 Pump Tube & Barrel Assembly	8.50	T-33 Felt Retainer . . . . .	.25
T-12 Spring Stop . . . . .	.50	T-34 Felt . . . . .	.15
T-13 Pump Lock Nut . . . . .	.20	T-35 Compression Head Washer . . . . .	.10
T-14 Plunger Rod . . . . .	.40	T-36 Pump Cup . . . . .	.20
T-15 Hammer . . . . .	.35	T-37 Compression Head . . . . .	.25
T-16 Hammer Spring . . . . .	.20	T-38 Trigger . . . . .	.60
T-17 Hammer Spring Guide Pin . . . . .	.25	T-39 Trigger Spring . . . . .	.20
T-18 Hammer Lock Screws . . . . .	.10	T-40 Trigger Pin . . . . .	.10
T-19 Spring Stop Bottom Screw . . . . .	.15	T-41 Locating Screw Nut . . . . .	.20
T-20 Link Rivet . . . . .	.10	T-42 Trigger Guard Screws . . . . .	.10
T-21 Pump Lever	1.00	T-43 Trigger Guard Assembly . . . . .	.65
T-22 Check Valve Assembly	1.00	T-44 Stock	4.00