

Chapter 3
EJECTION GUN, TYPE 2

BAY SERVICING

Servicing notes

1. The following operations are to be done at the Minor, Minor Star and Major Servicing of the aircraft.
2. All components referred to in this schedule are to be examined for corrosion and rectification action taken as necessary.
3. Stripping and assembling of components detailed in this schedule may be done by an Armament Mechanic. Examination, gauging and repairs are to be done by an Armament Fitter.

Item No.	Item	Operation
1	Ejection gun	Unlock piston tube from cylinder tube by pulling on release button. Note . . . <i>This operation is to be done with great care, as the walls of the tubes are extremely thin.</i>
2	Cylinder tube	
	(1) Tube	Clean and examine for distortion and damage.
	(2) Centralising clip	(1) Examine for damage and security of attachment. (2) Examine for freedom of movement.
3	Release mechanism	
	(1) Cylinder head	(1) Grip in clamp blocks. (2) Remove locking wire. (3) Using the two C-spanners, unscrew cylinder tube. (4) Clean. (5) Examine for distortion and damage. (6) Examine locking tabs for damage. (7) Examine external threads for damage.
	(2) Release piston	◀ (1) Remove release button split-pin and nut, using spanner to hold release piston. ▶ (2) Remove release button. (3) Withdraw release piston and spring from cylinder head. (4) Clean and examine release piston spring for damage and fractures. (5) Clean piston stem drain holes. (6) Examine release piston for freedom of movement in cylinder head. (7) Lightly coat with grease XG-275, and replace in cylinder head. ◀ (8) Replace release button and nut; lock with a new split pin. ▶
	(3) End cap	Examine internal threads for damage.
4	Cylinder head and end cap	(1) Refit cylinder head to cylinder tube by screwing on to end cap. (2) Lock with 20 s.w.g. non-corrodible steel locking wire ensuring loose ends are tucked into channel between end cap and cylinder head.

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Item No.	Item	Operation
5	Ejection gun	<p>Examine for distortion and damage.</p> <p>Examine internal threads for damage.</p> <p>(1) Clean and examine piston rings for freedom of movement in grooves.</p> <p>(2) Examine piston rings for damage.</p> <p>(3) Lightly lubricate piston rings with grease XG-275.</p> <p>(4) Set piston ring gaps at intervals of 120 deg.</p>
6	Piston tube and cylinder tube	<p>(1) Refit piston tube to cylinder tube using piston ring clip.</p> <p>Note . . . <i>Do not allow piston tube to fall freely in cylinder tube. To avoid damage to cylinder head locking tabs, the piston tube should not be allowed to strike the bottom hard before the release button is withdrawn.</i></p> <p>(2) Pull out release button, push piston tube right home and release the button.</p> <p>Note . . . <i>Correct assembly of the release piston in relation to the locking tabs of the cylinder head is essential. This assembly is the only means by which the ejection gun is attached to the ejection seat.</i></p>
7	(1) Firing unit	<p>(1) Remove sear, using cocking tool to ease firing pin spring.</p> <p>(2) Examine sear roller for freedom of movement.</p> <p>(3) Refit sear and remove firing pin assembly from firing body.</p> <p>(4) Remove sear.</p> <p>(5) Place firing body and firing pin assembly in oil, OX-52.</p> <p>(6) Clean and thoroughly dry all components.</p> <p>(7) Lightly lubricate with oil, OM-13.</p>
	(2) Sear	Examine for burrs, fractures and damage.
8	Firing pin assembly	<p>Examine for damage.</p> <p>Examine for distortion, fractures and damage.</p>
	(1) Retaining nut (2) Firing pin (3) Sear roller (4) Spring	}
9	Firing unit body	<p>(1) Examine threads for damage.</p> <p>(2) Examine interior of firing pin housing for scoring and burrs.</p> <p>(3) Examine striker hole for damage and concentricity.</p> <p>(4) Lightly lubricate with oil, OM-13.</p>
10	Firing unit	<p>(1) Refit sear to firing pin assembly.</p> <p>(2) Refit firing pin assembly to firing body, using a new tab washer.</p> <p>(3) Remove sear.</p> <p>(4) Examine firing pin for freedom of movement in the housing of the firing body.</p> <p>(5) Check initial compression of the firing pin spring.</p> <p>Note . . . <i>The spring should not move under a load of less than 7 lb. If less than 7 lb. the firing pin assembly must be changed.</i></p> <p>(6) Check the protrusion of the firing pin. It should not be less than $\frac{3}{32}$ in.</p> <p>(7) Refit sear.</p>
11	Sear safety pin	<p>(1) Check safety pin for distortion and damage.</p> <p>(2) Ensure that warning disc is secured to safety pin.</p> <p>(3) Ensure that printing on warning disc is legible.</p>
12	Firing unit	Fit to ejection gun.
13	Servicing Records and Form 3592	Sign for having completed this servicing.

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