

CHAPTER 1
SERVICING THE HUNTER GUN PACKAGE
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General instructions

1. The gun package is essentially part of the aircraft fuselage. In order to prevent damage to the skin it is to be transported and stored on the correct cradle at all times.
2. The servicing of the gun package is the responsibility of the Weapons trade group.
3. Before any repairs/modifications involving the structure is undertaken, advice should be obtained from a SNCO of the Airframe trade.

Servicing Notes

4. Dismantling, beyond that called for in these schedules, is only to be undertaken when necessary to effect repairs.
5. The term 'examine' as used in these schedules means a visual survey to ensure that the value or usefulness of an item has not been impaired by any of the following:-
 - (1) Insecurity of attachment
 - (2) Cracks or fractures
 - (3) Corrosion, contamination or deterioration
 - (4) Any form of distortion
 - (5) Loose or missing rivets
 - (6) Scoring or wearing
 - (7) Faulty or broken locking devices
6. Components found unserviceable are to be rectified where possible, otherwise they are to be exchanged.
7. Burrs and score marks are to be removed by stoning, care being taken to remove as little as possible of the adjacent metal.
8. Gun packages withdrawn from use are to be subject to a Bay Servicing before being placed into storage, similarly packages brought into use are to be Bay Serviced before fitted to an aircraft.

GUN PACKAGE SERVICING
IN CONJUNCTION WITH SCHEDULE GUN REMOVAL

Item No.	Item	Operation
1	General instructions	Read
2	Servicing notes	
3	<u>Ammunition tank</u>	
	(1) Lids	1 Clean
		2 Examine

Gun package servicing (cont).

Item No.	Item	Operation
	(2) Lid hinges	} Test, by operation for correct functioning
	(3) Locking latches	
	(4) Tank structure	} 1 Clean
	(5) Ammunition feed chutes	
		2 Examine
	(6) Rollers (ammunition and installation)	1 Clean
		2 Examine
		3 Lubricate OX-14
		4 Test, by operation for correct functioning
4	<u>Gun package</u>	
	(1) Outer skin	} 1 Clean
	(2) Internal structure	
		2 Examine, particularly for panting or wrinkling of the skin.
	(3) Package locking mechanism	1 Clean
		2 Examine
	(4) Rack bars and bolts	1 Clean
		2 Examine
		3 Lubricate OX-14
		4 Test, by operation for correct functioning
	(5) Spring loaded lock ring	1 Examine
		2 Ensure engages in keyhole bracket in locked and unlocked position
	(6) Guide spigots	} Examine
	(7) Gun cocking access cover springs	
	(8) Access cover attachment wire	
5	<u>Gun mountings</u>	
	(1) Front mounting	Clean and examine
	(2) Spherical bush	Examine and particularly for excessive movement within its mounting.
		Note . . .
		The bush should be just capable of movement for harmonization purposes. If excessive, adjust by tightening the castellated ring to eliminate all movement then unscrewing not more than two castellations before locking.
	(3) Castellated ring	Ensure locked securely
	(4) Rear mountings	1 Clean
		2 Examine

(Gun package servicing in conjunction
with schedule gun removal-cont'd)

Item No.	Item	Operation
5	<u>Gun mountings (cont)</u>	
	(5) Adjusting worm	} Ensure split pinned correctly
	(6) Traverse screw nuts	
	(7) Locking sleeves	} Ensure wire locked to structure
	(8) Traverse screw	
	(9) Gun attachment	} 1 Clean
	(10) Universal link	
		2 Examine
6	<u>Electrical fittings</u>	
	(1) Plugs and sockets	1 Clean
		2 Examine
	(2) Cables	} Examine
	(3) Connections	
	(4) Cleating	
	(5) Electrical	
		Test for continuity and insulation as follows:-
		(1) Using an indicator cocking test, test for continuity between the aircraft supply socket at the rear of the package, and the gun supply sockets at the front of the package.
		(2) Using a 250V insulation tester, test between each pin of the aircraft supply socket and a clean surface of the package structure, and between any two pins of the the socket. A resistance reading of 2 megohms should be recorded for each test.
7	<u>Removable fittings</u>	
	(1) Ammunition feed chutes	} 1 Clean
	(2) Front and rear cowlings	
	(3) Inboard empty case chutes	
	(4) Link ejection chutes	
		2 Examine
8	Serviceing records	Complete and sign

GUN PACKAGE SERVICING
3 MONTHLY OR 4000 ROUNDS SERVICING

Item No	Item	Operation
1	General instructions	} Read
2	Servicing notes	
3	<u>Ammunition tank</u>	
	(1) Lids	1 Clean 2 Examine
	(2) Ammunition guides	Examine
	(3) Lid hinges	} 1 Clean 2 Examine 3 Lubricate OX-14 4 Test, by operation for correct functioning
	(4) Locking latches	
	(5) Tank structure	
	(6) Rubbing strip	
	(7) Ammunition feed chutes	} Examine
	(8) Guides	
	(9) Rollers (ammunition and installation)	1 Clean 2 Examine 3 Lubricate bearings OX-14 4 Test, by operation for correct functioning
4	<u>Package locking mechanism</u>	
	(1) Mechanism cover plate	1 Remove 2 Clean
	(2) Operating mechanism	Clean
	(3) Operating pinion, spring and lock ring	1 Remove 2 Clean 3 Examine
	(4) Lock ring	1 Examine 2 Test, by operation for correct functioning
	(5) Rack bolt	1 Clean 2 Examine
	(6) Rack bar teeth	Examine
	(7) Roller	1 Clean 2 Examine
	(8) Keyhole bracket	Examine
	(9) Operating pinion, spring and lock ring	Refit
	(10) Operating mechanism	Lubricate XG-287
	(11) Mechanism cover	Refit
	(12) Rack bar and bolts	Lubricate OX-14
	(13) Lock mechanism	Test, by operation for correct functioning

(Gun package servicing 3 monthly
or 4000 rounds servicing-cont)

Item No.	Item	Operation
5	<u>Gun package</u>	
	(1) Outer skin	} Examine, and particularly for panting or wrinkling of the skin
	(2) Internal structure	
	(3) Hoist pick up point	
	(4) Guide spigots	} Examine
	(5) Gun heater pipe	
	(6) Bolt and housing retaining external link collectors	1 Clean
		2 Examine
		3 Lubricate ZX-28
	(7) Barrel catch release plunger and housings	1 Clean
		2 Examine
		3 Lubricate OX-14
		4 Test, by operation for correct functioning
	(8) Link ejection chutes	} Examine
	(9) Air scoop duct	
6	<u>Front mountings</u>	
	(1) Dismantling	1 Remove the nuts and bolts which secure the retaining ring lock plate, and remove the plate.
		2 Unscrew and remove the retaining ring, and spherical bush from the mounting.
		3 Clean and examine the spherical bush and its seating, remove any scores or burrs by light stoning.
		4 Clean and examine the retaining ring, exchange if damaged.
		5 Apply a film of grease ZX-28 to the external surface of the spherical bush.
	(2) Re-assembly	Re-assemble in the reverse order.
		Note . . .
		The spherical bush should be just capable of movement. Tighten castellated ring to eliminate all movement, unscrew castellated ring not more than 2 castellations before locking.
7	<u>Rear mountings</u>	
	(1) Dismantling	1 Remove the nut and washer from the traverse screw
		2 Loosen the locking sleeve and remove the traverse screw together with the sleeve and eccentric housing.

Item No	Item	Operation
	(1) Dismantling (cont)	
		3. Remove the nut from the end of the worm, unscrew the worm, and withdraw the eccentric from the housing.
		4 Clean and examine the worm, exchange it if the threads are damaged,
		5 Clean and examine the threads of the traverse screw and locking sleeve. If the threads are damaged, either or both of the components are to be exchanged.
		6 Examine the brackets in the package to which the mounting is secured for security. Tighten the securing bolts if necessary.
		7 Clean and examine the eccentric, and remove and burrs by light stoning. If the internal threads are damaged the eccentric is to be exchanged.
		8 Clean and examine the bearing inside the housing, remove any burrs by light stoning.
		9. Apply a film of grease XG-287.
	(2) Re-assembly	Re-assemble in reverse order.
	(3) Centre gun tie rods	Clean and examine
	(4) Ball joint and linkage	Examine and lubricate (OX-14)
8	<u>Electrical fittings</u>	
	(1) Plugs and sockets	} Examine
	(2) Cables	
	(3) Connections	
	(4) Cleating	
	(5) Cable conduit	
	(6) Thermostat control	Clean externally and examine
	(7) Earth connections	Examine
	(8) Electrical circuit	Test for continuity and insulation as follows:-
		(1) Using an indicator cocking test, test for continuity between the aircraft supply at the rear of the package, and the gun supply sockets at the front of the package.
		(2) Using a 250V insulation tester, test between each pin of the aircraft supply socket and a clean surface of the package structure, and between any two pins of the socket. A resistance reading of 2 megohms should be recorded for each test.

(Gun packages servicing 3 monthly
or 4000 rounds servicing-cont)

Item No.	Item	Operation
9	<u>Removable fittings</u>	
	(1) Ammunition feed chutes	1 Clean 2 Examine
	(2) Hinges	} Lubricate OX-14
	(3) Locking latches	
	(4) Front cowling	1 Clean 2 Examine
	(5) Sealing strip	} Examine
	(6) Dzus fasteners	
	(7) Rear cowling	1 Clean 2 Examine
	(8) Sealing glands	} Examine
	(9) Hot air connectors	
	(10) Dzus fasteners	
	(11) Inboard empty case chutes	
	(12) Link ejection chutes	
10	Fit a serviceable set of guns	
11	Harmonize the package	(AP110J-0302-1)
12	Servicing records	Complete and sign.

GUN PACKAGE SERVICING AT THE END OF A DAYS FIRING

Item No.	Item	Operation
1.	<u>Preparation</u>	
	(1) Plant Spraying	1. Partly fill the container with approximately 1 gallon of PX24. 2. Attach a lance section together with the lance adapter. 3. Pressurise the container to between 20 and 30 psi.
	(2) Aden guns (4 off)	1. Ensure unloaded. 2. Fit barrels.
2.	Breech cylinders (4 off)	1. Insert lance carefully, from the muzzle until the distances piece contacts the firing pin housing.

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GUN PACKAGE SERVICING AT THE END OF A DAYS FIRING (cont)

Item No.	Item	Operation
2. (cont)		2. Press the control valve for approximately 1 second. 3. Withdraw the lance 18 inches. 4. Cock the gun to rotate the breech cylinder. 5. Repeat sub-items 1 to 4 for the remaining chambers.
3.	Barrels (4 off)	1. Withdraw the lance. 2. Mop out any surplus PX24, leaving the bore coated with a thin film.
4.	Aden guns	1. Remove barrels.



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