

HUNTER AIRCRAFT SERVICING SCHEDULES

MK.57
(H.S.A.5)

BAY SERVICING SECTION 1 GUN PACKAGE (SINGLE SEAT AIRCRAFT)

VOLUME 5, PART 6

ARMAMENT N.C.O.

| Item No. | ITEM | OPERATION |
|----------|----------------------|---|
| 1. | Gun package. | (i) Ensure that the guns are unloaded. (ii) Supervise the removal of all live ammunition from the gun package. (iii) Supervise the removal of the guns from the gun package. (iv) Upon completion of the relevant Servicing, supervise the refitment, and if required, the re-arming of the guns as detailed in A.P.16415 Vol.1, Chap.8 (or relevant authorised instructions). (v) When the guns are re-fitted, re-harmonise the gun package. |
| 2. | Servicing Documents. | Sign for completing the relevant Servicing. |

Item
No.

ITEM

OPERATION

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ARMAMENT TRADESMAN

| Item No. | ITEM | OPERATION |
|----------|---------------------------------|---|
| 1. | Gun package. | (i) Check that the guns are unloaded. (ii) Remove all live ammunition from the gun package. (iii) Remove the guns from the gun package. |
| 2. | Ammunition tank. | Clean and examine for damage. |
| (a) | Lids. | Clean and examine for damage. |
| (b) | Ammunition guides. | (i) Lubricate with oil, OX-14. |
| (c) | Lid hinges and locking latches. | (ii) Examine, by operation, for correct functioning. |
| (d) | Tank structure. | (i) Clean internally and externally. (ii) Examine for damage and security of attachment to gun package. |
| (e) | Ammunition feed chutes. | (iii) Examine rubbing strips for damage. (i) Clean internally and externally. (ii) Examine chutes and guides for damage. |
| (f) | Ammunition rollers. | (i) Clean. (ii) Examine for damage. (iii) Lubricate bearings with oil, OX-14. (iv) Examine, by operation, for freedom of movement. |

Item
No.

ITEM

OPERATION

3. Package locking mechanism.
- (a) Cover plate. Remove and clean.
 - (b) Operating mechanism. Remove all grease.
 - (c) Operating pinion, spring and lock ring.
 - (i) Remove and clean.
 - (ii) Examine pinion for wear, and shaft for distortion.
 - (iii) Examine lock ring for fit on shaft, distortion and freedom of movement along shaft.
 - (d) Rack bolts.) (i) Clean and examine for damage.
 - (e) Rack bar.) (ii) Examine rack teeth for excessive wear.
 - (f) Roller.) Clean, and examine for wear and damage.
 - (g) Keyhole bracket. Examine for damage.
 - (h) Operating pinion, spring and lock ring. Refit.
 - (j) Operating mechanism. Pack with grease, XG-275.
 - (k) Operating mechanism cover plate. Refit.
 - (l) Rack bars and bolts. Lubricate with oil, OX-14.
 - (m) Locking mechanism. Examine, by operation, for correct functioning, using package locking key.
- NOTE:- Ensure spring loaded lock rings engage in keyhole bracket in unlocked position.

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| <u>Item No.</u> | <u>ITEM</u> | <u>OPERATION</u> |
|-----------------|---|---|
| 4. | Gun package. | |
| | (a) Outer skin.) | Clean and examine for damage. |
| | (b) Internal structure.) | |
| | (c) Hoist pick-up point. | Examine for damage. |
| | (d) Guide spigots. | (i) Clean. |
| | | (ii) Examine for damage. |
| | (e) Gun heater pipe (fixed) | Clean and examine for damage. |
| | (f) Bend catch release plungers and housings. | (i) Examine for damage. |
| | | (ii) Lubricate plungers with oil, OX-14. |
| | | (iii) Fit screw keys into housings and ensure plungers are operated. |
| | (g) Link ejection chutes.) | Examine for damage and correct fitting. |
| | (h) Air scoop duct.) | |
| 5. | Gun mountings. | |
| | (a) Front mounting. | (i) Clean and examine for damage. |
| | | (ii) Dismantle, clean and examine components for damage. |
| | | (iii) Lubricate components with grease, XG-275. |
| | | (iv) Examine spherical bush for excessive movement within its mounting. |

| Item No. | ITEM | OPERATION |
|----------|-----------------------------|---|
| 5. | Gun mountings (contd.) | |
| | (a) Front mounting (contd.) | (v) Assemble and adjust movement of spherical bush. <u>NOTE:-</u> Correct bush adjustment is obtained by tightening castellated nut to eliminate movement, and then unscrewing by not more than two castellations. Spherical bush is to be just free enough to rotate for harmonisation purposes. |
| | | (vi) Lock castellated nut. |
| | | (vii) Examine for secure locking of castellated nut. |
| | | (viii) Lubricate spherical bush with grease, XG-275. |
| | (b) Rear mounting. | (i) Dismantle, clean and examine components for damage. |
| | | (ii) Clean and examine for damage and correct locking. |
| | | <u>NOTE:-</u> Ensure adjusting worm and traverse screw nuts are split-pinned, and locking sleeves and traverse screws are wirelocked to package structure. |
| | | (iii) Examine lugs on formers 'D' and 'E' for damage. |

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ARMAMENT TRADESMAN

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| 5. | Gun mountings (contd.) | |
| (b) | Rear mounting (contd.) | (iv) Lubricate components with grease, XG-275. (v) Assemble and fit to package. (vi) Upon completion of operation (v), assist Armament N.C.O. to re-harmonise the gun package when the guns are refitted. |
| (c) | Gun attachment bolt. |) Clean, and examine for damage. |
| (d) | Universal link. |) |
| (e) | Tie rods for centre guns. | (i) Clean and examine for damage. (ii) Lubricate ball-joint and linkage with oil, OX-14. (iii) Examine ball joint and linkage for freedom of movement. |
| 6. | Electrical fittings. | |
| (a) | Plugs and sockets. | Clean, and examine for damage. |
| (b) | Cables. | Examine for damage and correct cleating. |
| (c) | Cable conduit. | Examine for damage. |
| (d) | Heating control thermostat. | Clean externally and examine for damage. |
| (e) | Electrical circuit. | (i) Test for continuity of circuit. (ii) Test earth connections are good. |

Item
No.

ITEM

OPERATION

7. Removable fittings.
- (a) Ammunition feed chutes.
 - (i) Clean and examine for damage.
 - (ii) Examine for correct fitting to bottom of ammunition tank.
 - (iii) Lubricate hinges and locking latches with oil, OX-14.
 - (b) Front cowling.
 - (i) Clean and examine for damage.
 - (ii) Examine sealing strip for damage.
 - (iii) Examine for correct fitting and fasteners for security.
 - (c) Rear cowling.
 - (i) Clean and examine for damage.
 - (ii) Examine spring loaded sealing glands for damage.
 - (iii) Examine hot air connector for damage.
 - (iv) Examine for correct fitting and fasteners for security.
 - (d) Link collector blisters.
(package section)
 - (i) Clean and examine for damage.
 - (ii) Examine sealing strip for damage.
 - (iii) Lubricate latches with oil, OX-14.
 - (iv) Examine fasteners and locking latches for correct fitting and security.

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| 8. | Gun package. | (i) Refit the guns, and if required, re-arm as detailed in A.P.1641S, Vol.1, Chap.8 (or relevant authorised instructions). (ii) Remove all tools, rags and other Servicing materials. |
| 9. | Servicing Documents. | Sign for completing the relevant Servicing. |

Item
No.

ITEM

OPERATION

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