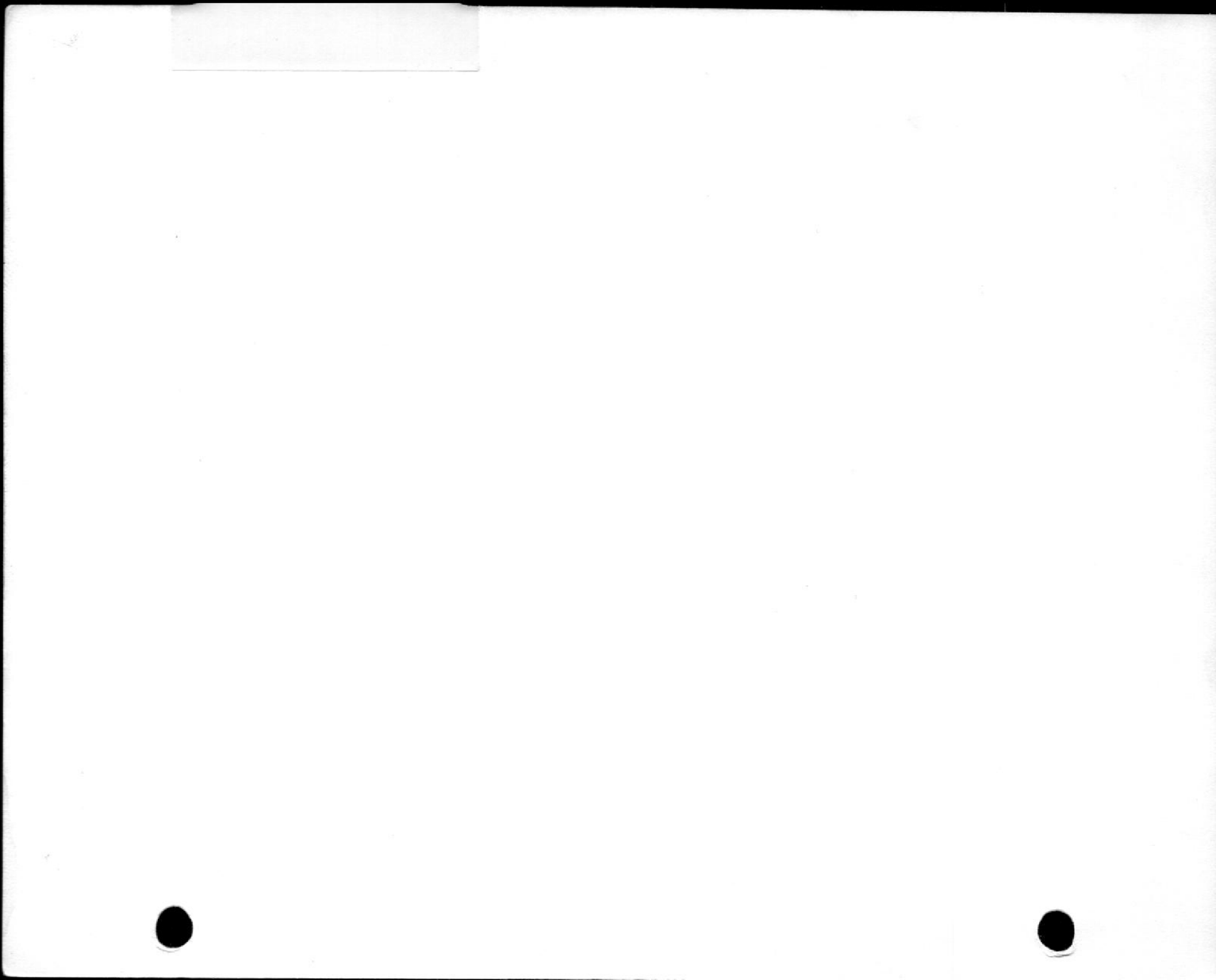


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*(H.S.A.3)*

**HUNTER AIRCRAFT SERVICING SCHEDULES**  
**DAILY & PRIMARY SERVICING**

*Volume 5, Part 2*

**SECTION 4**  
**ADDITIONAL SERVICING**



# HUNTER AIRCRAFT SERVICING SCHEDULES

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# HUNTER AIRCRAFT SERVICING SCHEDULES

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## SECTION 4 ADDITIONAL SERVICING AFTER HEAVY LANDING

VOLUME 5, PART 2

### GENERAL (1)

Item No.	ITEM	OPERATION
<u>AIRFRAME TRADE</u>		
1.	General.	Read Lethal Warning Card, Safety Precautions and Servicing Notes of this Handbook.
2.	Ejection seat(s) (general safety)	Ensure that the safety pins have been inserted into the 'Safe for Servicing' positions as detailed and illustrated in SAFETY PRECAUTIONS of this Handbook.
3.	Access panels (port and starboard)	
	(a) Main spar joint. )	
	(b) Rear spar joint. )	
	(c) Undercarriage jack )	Remove as necessary.
	attachments. )	
	(d) Nose wheel undercarriage jack. )	
	(e) Nose undercarriage )	
	attachments. )	

Item  
No.

ITEM

OPERATION

AIRFRAME TRADE (Contd.)

- |    |                                    |   |       |  |
|----|------------------------------------|---|-------|--|
| 4. | Shock absorber struts.             |   |       |  |
|    | (a) Main.                          | ) | (i)   | Examine for signs of bottoming.  |
|    | (b) Nose.                          | ) | (ii)  | Examine for oil leakage. Serious leakage indicates gland failure and entails fitting a serviced strut. |
|    |                                    |   | (iii) | Check for normal extension.  |
|    |                                    |   | (iv)  | Examine shock absorber legs and stub axle casting for cracks.  |
| 5. | Aircraft.                          |   |       | Raise aircraft on jacks and position rear trestle.   |
| 6. | Undercarriage.                     |   |       |  |
|    | (a) Main.                          | ) |       | Examine, by feel, for excessive fore and aft movement and side play.                                   |
|    | (b) Nose.                          | ) |       |  |
|    | (c) Shock absorber struts.         | ) | (i)   | Examine all lugs for cracks and distortion.  |
|    | (d) Nose undercarriage pivot tube. | ) | (ii)  | Examine end fittings for signs of movement, stripping of threads and shearing of rivets.               |
|    | (e) Main undercarriage pintles.    | ) |       |  |
| 7. | Undercarriage down-locks.          |   |       |  |
|    | (a) Main.                          | ) |       | Examine for distortion, damage and correct locking.  |
|    | (b) Nose.                          | ) |       |  |

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### SECTION 4 ADDITIONAL SERVICING AFTER HEAVY LANDING

VOLUME 5, PART 2

#### GENERAL (1)

Item No.	ITEM	OPERATION
<u>AIRFRAME TRADE (Contd.)</u>		
8.	Main spars and skin in vicinity of undercarriage attachment fittings.	(i) Examine for buckling, distortion and wrinkling. (ii) Examine for defective rivets. (iii) Examine spar attachments at wing roots for signs of movement, loose or sheared bolts and casting fractures.
9.	Mainplane ribs F1 and G in vicinity of wheel well.	(i) Examine for buckling, distortion and wrinkling. (ii) Examine for defective rivets.
10.	Mainplane attachment fittings.	Examine for cracks, distortion and signs of shearing of bolts.
11.	Torque links. (a) Main undercarriage.           ) (b) Nose strut.                    )	Examine for cracks, distortion and signs of shearing of bolts.
12.	Nose undercarriage.	Examine box structure around leg attachment points for buckling, casting fracture, and defective rivets or bolts.

Item  
No.

ITEM

OPERATION

AIRFRAME TRADE (Contd.)

- |     |   |   |   |
|-----|---|---|---|
| 13. | Nose wheel self-centring mechanism.           |   | Examine, by operation, for correct functioning.                                       |
| 14. | Undercarriage retraction jacks.               |   |   |
|     | (a) Main.                                     | ) | (i) Examine rams for bowing.  |
|     | (b) Nose.                                     | ) | (ii) Examine attachment fittings for signs of movement and defective bolts.           |
|     |   |   | (iii) Examine spar flanges in vicinity for distortion and defective bolts and rivets. |
| 15. | (a) Main undercarriage leg fairings. )        |   | Examine for distortion, damage and security of attachment.                            |
|     | (b) Main undercarriage wheel doors. )         |   |   |
|     | (c) Nose wheel doors. )                       |   |   |
| 16. | Tail bumper pad.                              |   | Examine pad and fuselage skin in the vicinity for buckling and damage.                |
| 17. | Fuselage skin in vicinity of transport joint. |   | Examine for defective rivets and wrinkling.   |
| 18. | (a) Main wheels.                              | ) | (i) Remove for Bay Servicing.   |
|     | (b) Nose wheel.                               | ) | (ii) Examine axles for cracks, distortion and damage.                                 |

# HUNTER AIRCRAFT SERVICING SCHEDULES

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## SECTION 4 ADDITIONAL SERVICING AFTER HEAVY LANDING

VOLUME 5, PART 2

### GENERAL (1)

Item No.	ITEM	OPERATION
<u>AIRFRAME TRADE (Contd.)</u>		
19.	Main wheels.	(i) Check tyre pressures of serviced wheels (see SERVICING NOTES of this Handbook). (ii) Fit wheels and examine for freedom of rotation.
20.	Nose wheel.	(i) Check tyre pressure of serviced wheel (see SERVICING NOTES of this Handbook). (ii) Fit wheel and examine for freedom of rotation.
<u>N.B.</u>	Item 21 is applicable <u>only if static deflection is incorrect</u> . If outside air temperature is higher than hangar temperature, refer to A.P.1803, Vol.1, Sect.2, Chap.4.	
21.	Main and nose undercarriage shock absorber struts.	Charge with oil OM-15 as detailed in A.P.1803E, Vol.1, Sect.2, Chap.6 (main) and Sect.6, Chap.6, (nose) - (or relevant authorised instructions).
22.	(a) Main undercarriage.	Check the adjustment of the main wheel door locks and mechanism as detailed in the aircraft Vol.1, Sect.3, Chap.5. (S.I./HUNTER/72 refers).
	(b) Nose undercarriage.	Check the adjustment of the nose wheel door locks as detailed in the aircraft Vol.1, Sect.3, Chap.5.

Item No.	ITEM	OPERATION
<u>AIRFRAME TRADE (Contd.)</u>		
22. (contd.)	(c) Main and nose undercarriage.	Remove the safety locks and carry out a retraction test as detailed in Part 2, Section 5 of this Schedule.
23. Gun package/Gun(s) installation (as applicable)		In conjunction with Armament Tradesman:- (i) Examine surrounding structure for signs of distortion and damage. (ii) Examine for defective rivets and attachment bolts.
24. External stores (if fitted).		In conjunction with Armament Tradesman, examine for damage, particularly to pylon upper fairing castings.
	(a) External fuel tanks. )	
	(b) Pylons. )	
	(c) R.P. rails. )	
		<u>NOTE:-</u> Release units are to be functionally checked on all pylons carrying external stores.
25. Aircraft.		Remove tail trestle, lower aircraft and remove jacks and jacking pads.
26. Shock absorber struts.		Check for normal and equal extension.
27. Access panels and doors.		Refit, ensuring flush fitting and correct locking.
28. Aircraft generally.		Remove from the aircraft all tools, rags and other Servicing materials.
29. Servicing Documents.		Sign for completing the relevant Servicing.

## HUNTER AIRCRAFT SERVICING SCHEDULES

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### SECTION 4 ADDITIONAL SERVICING AFTER HEAVY LANDING

VOLUME 5, PART 2

#### GENERAL (1)

Item No.	ITEM	OPERATION
<u>ARMAMENT TRADE</u>		
1.	General.	Read Lethal Warning Card, Safety Precautions and Servicing Notes of this Handbook.
2.	Ejection seat(s) (general safety)	Ensure that the safety pins have been inserted into the 'Safe for Servicing' positions as detailed and illustrated in SAFETY PRECAUTIONS of this Handbook.
3.	(a) Gun firing safety devices. (b) Bombs/R.P. switch. (c) R.P. selector switch. (d) Armament safety break.	Ensure set to 'SAFE'. Ensure set to 'OFF'. Ensure set to position '2'. Ensure disconnected and red warning pennant clearly visible.
4.	Gun package/Gun(s) installation (as applicable)	
	(a) Structure in vicinity of installation.	(i) Examine for signs of distortion and wrinkling. (ii) Examine for defective rivets and attachment bolts.

Item  
No.

ITEM

OPERATION

ARMAMENT TRADE (Contd.)

- |    |   |   |  |
|----|---|---|--|
| 4. | Gun package/Gun(s) installation<br>(as applicable) (contd.) |   |  |
|    | (b) Gun mountings/fittings.                                 | ) |  |
|    | (c) Ammunition box.   | ) |  |
|    | (d) Diaphragm(s).   | ) | Examine (as applicable) for distortion, damage<br>and security of attachment.  |
|    | (e) Chutes and collector tanks.                             | ) |  |
| 5. | External stores (if fitted).                                |   |  |
|    | (a) External fuel tanks.                                    | ) | (i) In conjunction with Airframe Tradesman,<br>examine for damage.   |
|    | (b) Pylons.   | ) |  |
|    | (c) R.P. rails.   | ) | (ii) Carry out functional check on release units<br>of all pylons carrying external stores, as<br>detailed in Part 2, Section 5 of this<br>Schedule. |
| 6. | Aircraft generally.   |   | Remove from the aircraft all tools, rags and other<br>Servicing materials.   |
| 7. | Servicing Documents.  |   | Sign for completing the relevant Servicing.  |

# HUNTER AIRCRAFT SERVICING SCHEDULES

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## SECTION 4 ADDITIONAL SERVICING AFTER HEAVY LANDING

VOLUME 5, PART 2

### GENERAL (1)

Item No.	ITEM	OPERATION
<u>ELECTRICAL TRADE</u>		
1.	General.	Read Lethal Warning Card, Safety Precautions and Servicing Notes of this Handbook.
2.	Ejection seat(s) (general safety)	Ensure that the safety pins have been inserted into the 'Safe for Servicing' positions as detailed and illustrated in SAFETY PRECAUTIONS of this Handbook.
3.	(a) Lead acid batteries.                     ) (b) Adjacent structure.                     )	Examine for cracks and spilled electrolyte. If found, report to N.C.O. i/c Servicing.
4.	Undercarriage micro-switches.	Examine for cracks or damage.
5.	Inertia switches.	(i) Examine inertia switch to determine if it has operated. <u>NOTE</u> :- Operation is indicated by the contact bow leaf spring being bent towards terminal block.

Item  
No.

ITEM

OPERATION

ELECTRICAL TRADE (Contd.)

- |                                |  |
|--------------------------------|--|
| 5. Inertia switches (contd.)   | (ii) If inertia switch has been operated, unscrew terminal block cover and press re-setting plunger until contact bow leaf spring springs back into unoperated position, i.e. towards mounting base. |
| 6. Fire extinguisher bottle(s) | Request Engine Tradesman to check whether bottle(s) has discharged. Replace if necessary.  |
| 7. Aircraft generally.         | Remove from the aircraft all tools, rags and other Servicing materials.  |
| 8. Servicing Documents.        | Sign for completing the relevant Servicing.  |

ENGINE TRADE

- |   |  |
|---|--|
| 1. General.                             | Read Lethal Warning Card, Safety Precautions and Servicing Notes of this Handbook.   |
| 2. Ejection seat(s)<br>(general safety) | Ensure that the safety pins have been inserted into the 'Safe for Servicing' positions as detailed and illustrated in SAFETY PRECAUTIONS of this Handbook. |

## HUNTER AIRCRAFT SERVICING SCHEDULES

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### SECTION 4 ADDITIONAL SERVICING AFTER HEAVY LANDING

VOLUME 5, PART 2

#### GENERAL (1)

<u>Item No.</u>	<u>ITEM</u>	<u>OPERATION</u>
<u>ENGINE TRADE (Contd.)</u>		
3.	Fuel tanks and system.	(i) Examine as far as possible for signs of fuel leakage. (ii) Refuel as detailed in Part 2, Section 4 of this Schedule ensuring that pressure relief valves and float switches function correctly.
4.	Aircraft generally.	Remove from the aircraft all tools, rags and other Servicing materials.
5.	Servicing Documents.	Sign for completing the relevant Servicing.

#### RADAR TRADE

- |    |                                      |  |
|----|--------------------------------------|--|
| 1. | General.                             | Read Lethal Warning Card, Safety Precautions and Servicing Notes of this Handbook.   |
| 2. | Ejection seat(s)<br>(general safety) | Ensure that the safety pins have been inserted into the 'Safe for Servicing' positions as detailed and illustrated in SAFETY PRECAUTIONS of this Handbook. |

Item No.	ITEM	OPERATION
<u>RADAR TRADE (Contd.)</u>		
3.	(a) Radar ranging installation. )	(i) Examine all units for damage.
	(b) D.M.E. installation. )	(ii) Carry out functional test as detailed in
	(c) IFF installation )	Part 2, Section 5 of this Schedule.
	(as applicable) )	

4. Aircraft generally.

Remove from the aircraft all tools, rags and other Servicing materials.

5. Servicing Documents.

Sign for completing the relevant Servicing.

#### WIRELESS TRADE

1. General.

Read Lethal Warning Card, Safety Precautions and Servicing Notes of this Handbook.

2. Ejection seat(s)  
(general safety)

Ensure that the safety pins have been inserted into the 'Safe for Servicing' positions as detailed and illustrated in SAFETY PRECAUTIONS of this Handbook.

3. (a) V.H.F. installation. )  
 (b) U.H.F. installation. )  
 (c) Wide-band Homing installation. )  
 (d) Sub-min/Radio compass )  
 installation. )  
 (e) Telebriefing installation. )  
 (as applicable) )

(i) Examine all units for damage.  
 (ii) Carry out functional test as detailed in Part 2, Section 5 of this Schedule.

# HUNTER AIRCRAFT SERVICING SCHEDULES

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## SECTION 4 ADDITIONAL SERVICING AFTER HEAVY LANDING

VOLUME 5, PART 2

### GENERAL (1)

<u>Item No.</u>	<u>ITEM</u>	<u>OPERATION</u>
<u>WIRELESS TRADE (Contd.)</u>		
4.	Aircraft generally.	Remove from the aircraft all tools, rags and other Servicing materials.
5.	Servicing Documents.	Sign for completing the relevant Servicing.

Item  
No.

ITEM

OPERATION

## HUNTER AIRCRAFT SERVICING SCHEDULES

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### SECTION 4 ADDITIONAL SERVICING AFTER EXCESSIVE 'G' LOADING

VOLUME 5, PART 2

#### GENERAL (2)

Item No.	ITEM	OPERATION
<u>AIRFRAME TRADE</u>		
1.	General.	Read Lethal Warning Card, Safety Precautions and Servicing Notes of this Handbook.
2.	Ejection seat(s) (general safety)	Ensure that the safety pins have been inserted into the 'Safe for Servicing' positions as detailed and illustrated in SAFETY PRECAUTIONS of this Handbook.
3.	Access panels and doors, fairings and fillets.	Remove as necessary, and examine for damage.
4.	Main plane attachment points.	(i) Examine castings for damage. (ii) Examine bolts and pins for damage.
5.	Mainplanes.	(i) Examine internally, as far as possible, for damage. (ii) Examine skin for damage, particularly at air intakes, stub wings, joints, spars, trailing edges, extended leading edges and control surfaces.

Item No.	ITEM	OPERATION
<u>AIRFRAME TRADE (Contd.)</u>		
6.	Fuselage.	(i) Examine internally, as far as possible, for damage. (ii) Examine skin for damage. (iii) Examine control rods for damage.
7.	Gun package/Gun(s) installation (as applicable)	In conjunction with Armament Tradesman:- (i) Examine surrounding structure for signs of distortion and damage. (ii) Examine for defective rivets and attachment bolts.
8.	External stores (if fitted). (a) External tanks.                     ) (b) Pylons.                                 ) (c) R.P. rails.                            )	In conjunction with Armament Tradesman, examine for damage, particularly to pylon upper fairing castings. <u>NOTE:-</u> Release units are to be functionally checked on all pylons carrying external stores.
<u>N.B.</u> Item 9 is applicable only if $10\frac{1}{2}$ positive 'G' loading <u>has been exceeded</u> .		
9.	Pylons.	In conjunction with Armament Tradesman, remove for Bay Servicing as detailed in Part 2, Section 4 of this Schedule.
10.	Transport joint.	(i) Examine for damage. (ii) Check captive nuts for tightness.

## HUNTER AIRCRAFT SERVICING SCHEDULES

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### SECTION 4 ADDITIONAL SERVICING AFTER EXCESSIVE "G" LOADING

VOLUME 5, PART 2

#### GENERAL (2)

<u>Item No.</u>	<u>ITEM</u>	<u>OPERATION</u>
<u>AIRFRAME TRADE (Contd.)</u>		
11.	Tailplane, fin and rudder.	(i) Examine internally, as far as possible, for damage. (ii) Examine skin covering for damage, especially at joints, spars, castings and control surfaces. (iii) Examine attachment points for damage.
12.	Aircraft.	(i) Raise aircraft on jacks and position tail trestle. (ii) Level aircraft transversely by means of levelling bar and spirit level placed across hood rails. (iii) Fit a levelling spigot into each levelling point attached to fuselage structure in port wheel bay and level aircraft longitudinally with straight edge and spirit level placed across the two spigots.

Item No.	ITEM	OPERATION
<u>AIRFRAME TRADE (Contd.)</u>		
13. Flying controls.		
(a) Ailerons.	)	(i) Examine, by operation, for full and free range of movement in 'MANUAL'.
(b) Elevator.	)	
(c) Rudder.	)	(ii) Position spring balance at top of control column.
		(iii) Check loads required to move control column from neutral. Correct loads are:- Aircraft <u>without</u> by-pass hydroboosters incorporated:
		Ailerons 5 lb. port and starboard Elevator 2 lb. UP 5 lb. DOWN
		Aircraft <u>with</u> by-pass hydroboosters incorporated:
		Ailerons 9 lb. port and starboard Elevator 7 lb. UP 9 lb. DOWN
14. Flying tail.		Examine, by operation, for full and free range of movement.
15. Main and nose undercarriage.		In conjunction with Electrical Tradesman, carry out a retraction test as detailed in Part 2, Section 5 of this Schedule. (S.I./HUNTER/72 also refers).

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## SECTION 4 ADDITIONAL SERVICING AFTER EXCESSIVE 'G' LOADING

VOLUME 5, PART 2

### GENERAL (2)

Item No.	ITEM	OPERATION
<u>AIRFRAME TRADE (Contd.)</u>		
16.	Symmetry and rigging of fixed surfaces.	Check linear dimensions with steel tape, and angular measurements with rigging board as detailed in the aircraft Vol.1, Sect.2.
17.	Access panels and doors.	Refit ensuring flush fitting and correct locking.
18.	Aircraft.	Remove tail trestle, lower aircraft and remove jacks and jacking pads.
19.	Aircraft generally.	Remove from the aircraft all tools, rags and other Servicing materials.
20.	Servicing Documents.	Sign for completing the relevant Servicing.

### ARMAMENT TRADE

- |    |                                      |  |
|----|--------------------------------------|--|
| 1. | General.                             | Read Lethal Warning Card, Safety Precautions and Servicing Notes of this Handbook.   |
| 2. | Ejection seat(s)<br>(general safety) | Ensure that the safety pins have been inserted into the 'Safe for Servicing' positions as detailed and illustrated in SAFETY PRECAUTIONS of this Handbook. |

Item  
No.

ITEM

OPERATION

ARMAMENT TRADE (Contd.)

- |   |  |  |
|---|--|--|
| 3. Gun package/Gun(s) installation<br>(as applicable)   |  | In conjunction with Airframe Tradesman:-<br>(i) Examine surrounding structure for signs<br>of distortion and damage.<br>(ii) Examine for defective rivets and<br>attachment bolts. |
| 4. External stores (if fitted).<br>(a) External fuel tanks. )<br>(b) Pylons. )<br>(c) R.P. rails. )                       |  | In conjunction with Airframe Tradesman, examine<br>for damage.<br>Carry out functional check on release units of all<br>pylons carrying external stores.                           |
| <p><u>N.B.</u> Item 5 is applicable only if <math>10\frac{1}{2}</math> positive 'G' loading <u>has been exceeded</u>.</p> |  |  |
| 5. Pylons.  |  | In conjunction with Airframe Tradesman, remove<br>for Bay Servicing as detailed in Part 2, Section 4<br>of this Schedule.  |
| 6. Aircraft generally.  |  | Remove from the aircraft all tools, rags and other<br>Servicing materials.   |
| 7. Servicing Documents.   |  | Sign for completing the relevant Servicing.  |

## HUNTER AIRCRAFT SERVICING SCHEDULES

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### SECTION 4 ADDITIONAL SERVICING AFTER EXCESSIVE 'G' LOADING

VOLUME 5, PART 2

#### GENERAL (2)

Item No.	ITEM	OPERATION
<u>ELECTRICAL TRADE</u>		
1.	General.	Read Lethal Warning Card, Safety Precautions and Servicing Notes of this Handbook.
2.	Ejection seat(s) (general safety)	Ensure that the safety pins have been inserted into the 'Safe for Servicing' positions as detailed and illustrated in SAFETY PRECAUTIONS of this Handbook.
3.	(a) Lead acid batteries.                    ) (b) Adjacent structure.                    )	Examine for cracks and spilled electrolyte. If found, report to N.C.O. i/c Servicing.
4.	Undercarriage micro-switches.	Examine for damage.
5.	Undercarriage warning system.	In conjunction with Airframe Tradesman, examine during retraction test, for correct operation.
6.	Inertia switches.	(i) Examine each switch to determine if it has operated. <u>NOTE:-</u> Operation is indicated by contact bow leaf spring being bent towards terminal block.

Item No.	ITEM	OPERATION
<u>ELECTRICAL TRADE (contd.)</u>		
6.	Inertia switches (contd.)	(ii) If switch has operated, unscrew terminal block cover and press re-setting plunger until contact bow leaf springs back into unoperated position i.e. towards mounting base.
7.	Fire extinguisher bottle(s)	Request Engine Tradesman to check whether bottle(s) has discharged. Replace if necessary.
8.	Float switches.	In conjunction with Engine Tradesman, check for correct operation during refuelling and defuelling.
9.	Aircraft generally.	Remove from the aircraft all tools, rags and other Servicing Materials.
10.	Servicing Documents.	Sign for completing the relevant Servicing.
<u>ENGINE TRADE</u>		
1.	General.	Read Lethal Warning Card, Safety Precautions and Servicing Notes of this Handbook.
2.	Ejection seat(s) (general safety)	Ensure that the safety pins have been inserted into the 'Safe for Servicing' positions as detailed and illustrated in SAFETY PRECAUTIONS of this Handbook.

## HUNTER AIRCRAFT SERVICING SCHEDULES

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### SECTION 4 ADDITIONAL SERVICING AFTER EXCESSIVE 'G' LOADING

VOLUME 5, PART 2

#### GENERAL (2)

Item No.	ITEM	OPERATION
----------	------	-----------

#### ENGINE TRADE (contd.)

- |    |                                    |   |
|----|------------------------------------|---|
| 3. | Fuel system.                       | Defuel as detailed in Part 2, Section 4 of this Schedule. |
| 4. | Refuelling pressure relief valves. | Ensure that valves are free to operate.                   |

N.B. In Item 5, a streamline filter is to be fitted in the refuelling delivery line.

- |    |                      |  |
|----|----------------------|--|
| 5. | Fuel tanks.          | Refuel as detailed in Part 2, Section 4 of this Schedule ensuring that pressure relief valves and float switches function correctly. |
| 6. | Aircraft generally.  | Remove from the aircraft all tools, rags and other Servicing materials.  |
| 7. | Servicing Documents. | Sign for completing the relevant Servicing.  |

#### RADAR TRADE

- |    |          |  |
|----|----------|--|
| 1. | General. | Read Lethal Warning Card, Safety Precautions and Servicing Notes of this Handbook. |
|----|----------|--|

Item No.	ITEM	OPERATION
<u>RADAR TRADE (Contd.)</u>		
2.	Ejection seat(s) (general safety)	Ensure that the safety pins have been inserted into the 'Safe for Servicing' positions as detailed and illustrated in SAFETY PRECAUTIONS of this Handbook.
3.	(a) Radar ranging installation. ) (b) D.M.E. installation. ) (c) I.F.F. installation. ) (as applicable) )	Examine all units and mountings for security.
4.	Aircraft generally.	Remove from the aircraft all tools, rags and other Servicing materials.
5.	Servicing Documents.	Sign for completing the relevant Servicing.

WIRELESS TRADE

1.	General.	Read Lethal Warning Card, Safety Precautions and Servicing Notes of this Handbook.
2.	Ejection seat(s) (general safety)	Ensure that the safety pins have been inserted into the 'Safe for Servicing' positions as detailed and illustrated in SAFETY PRECAUTIONS of this Handbook.

# HUNTER AIRCRAFT SERVICING SCHEDULES

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## SECTION 4 ADDITIONAL SERVICING AFTER EXCESSIVE 'G' LOADING

VOLUME 5, PART 2

### GENERAL (2)

Item No.	ITEM	OPERATION
<u>WIRELESS TRADE (Contd.)</u>		
3.	(a) V.H.F. installation. )	Examine all units and mountings for security.
	(b) U.H.F. installation. )	
	(c) Wide-band Homing installation. )	
	(d) Sub-min/Radio compass ) installation. )	
	(e) Telebriefing installation ) (as applicable) )	
4.	Aircraft generally.	Remove from the aircraft all tools, rags and other Servicing materials.
5.	Servicing Documents.	Sign for completing the relevant Servicing.

Item  
No.

ITEM

OPERATION

## HUNTER AIRCRAFT SERVICING SCHEDULES

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### SECTION 4 ADDITIONAL SERVICING MAIN WHEEL CHANGE

VOLUME 5, PART 2

#### AIRFRAME (1)

Item No.	ITEM	OPERATION
1.	General.	Read Lethal Warning Card, Safety Precautions and Servicing Notes of this Handbook.
2.	Ejection seat(s) (general safety)	Ensure that the safety pins have been inserted into the 'Safe for Servicing' positions as detailed and illustrated in SAFETY PRECAUTIONS of this Handbook.
<u>N.B.</u> In Item 3, the opportunity is to be taken to check brake pad wear to ensure there is sufficient thickness of pad to last until <u>next wheel change</u> .		
3.	Main wheels.	(i) Jack up aircraft. (ii) Apply brakes mechanically at brake units. (iii) Remove wheels for Bay Servicing. (iv) Examine brake units for leaks, signs of overheating and damage. (v) Examine friction plates, as far as possible, for damage. (vi) Check thickness of friction pads. (vii) Clean and lightly lubricate axle with grease, XG-277.
4.	Maxaret units.	(i) Clean unit and track.

Item No.	ITEM	OPERATION
4.	Maxaret units (contd.)	<p>(ii) Lightly lubricate the top pivot block and spring in the lower pivot block with oil, OX-14.</p> <p>(iii) Check spring tension and freedom of the top pivot by pressing against the pivot block in the direction of the leg. On release, the unit is to return freely to its original position.</p>
5.	Main wheels.	<p>(i) Fit Bay Serviced wheel.</p> <p>(ii) Slacken brake adjusters four flats plus amount required to fit locking plates.</p> <p>(iii) Fit locking plates and circlips.</p> <p>(iv) Examine wheel for freedom of rotation.</p>
6.	Aircraft.	Lower aircraft off jacks.
7.	Maxaret units.	<p>(i) Examine for positive engagement with the track of the main wheel, indicated by a flat of between <math>\frac{3}{4}</math> in. to 1 in. on Maxaret tyre.</p> <p>(ii) Apply brakes and examine for leaks.</p> <p>(iii) Release brakes.</p>
8.	Aircraft generally.	Remove from the aircraft all tools, rags and other Servicing materials.
9.	Servicing Documents.	Sign for completing the relevant Servicing.

# HUNTER AIRCRAFT SERVICING SCHEDULES

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## SECTION 4 ADDITIONAL SERVICING AFTER GUN FIRING (SINGLE SEAT AIRCRAFT)

VOLUME 5, PART 2

### AIRFRAME (2)

Item No.	ITEM	OPERATION
1.	General.	Read Lethal Warning Card, Safety Precautions and Servicing Notes of this Handbook.
2.	Ejection seat(s) (general safety)	Ensure that the safety pins have been inserted into the 'Safe for Servicing' positions as detailed and illustrated in SAFETY PRECAUTIONS of this Handbook.
3.	Blast tubes.	Inspect for cracks at welds. Max. permissible length of crack is 0.5 ins.
<u>N.B.</u> Item 4 is applicable only to aircraft carrying <u>ballast in lieu of radar head.</u>		
4.	Ballast.	(i) Examine securing screws for tightness. (ii) Examine for damage.
5.	Airbrake fairing.	Examine for damage and for possible fouling of airbrake.
<u>N.B.</u> Item 6 is applicable at TURN ROUND Servicing <u>following 4-gun firing with H.V. Ammunition.</u>		
6.	Nose wheel door mechanism.	(i) Examine the lock control rod guide tubes for security and cracking at the welded lugs.

Item  
No.

ITEM

OPERATION

- |                                       |       |   |
|---------------------------------------|-------|---|
| 6. Nose wheel door mechanism (contd.) | (ii)  | Examine the spigot F.217874 (in lever B222397-8) for the forward end of each lock control rod, for looseness or fracture. |
|                                       | (iii) | Examine the special wire pins F 221625 securing the lock control rods at front and rear ends for wear and security.       |
|                                       | (iv)  | Examine port and starboard door lock attachment bolts for looseness (S.I./HUNTER/79 refers).                              |
| 7. Aircraft generally.                |       | Remove from the aircraft all tools, rags and other Servicing materials.   |
| 8. Servicing Documents.               |       | Sign for completing the relevant Servicing.   |

# HUNTER AIRCRAFT SERVICING SCHEDULES

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## SECTION 4 ADDITIONAL SERVICING AFTER PARKING IN GALE FORCE WINDS

VOLUME 5, PART 2

### AIRFRAME (3)

Item No.	ITEM	OPERATION
1.	General.	Read Lethal Warning Card, Safety Precautions and Servicing Notes of this Handbook.
2.	Ejection seat(s) (general safety)	Ensure that the safety pins have been inserted into the 'Safe for Servicing' positions as detailed and illustrated in SAFETY PRECAUTIONS of this Handbook.
3.	Flying controls.	(i) Examine the control locks for signs of strain or damage.
<u>N.B.</u>	Operation (ii) is to be carried out from <u>both port and starboard positions</u> on TWO SEAT AIRCRAFT.	(ii) Examine all controls, by operation, for full and free range of movement.
<u>N.B.</u>	In Operations (iii) to (ix), commence in the cabin and work <u>outward along the wings and rearward down the fuselage.</u>	(iii) Examine pivot pins and fulcrum bolts for wear, shear and distortion. (iv) Examine rivets and bolts securing brackets and idler links for distortion, looseness, shearing and damage. (v) Examine limit stops and stop attachment brackets for distortion, fracture and strain.

Item No.	ITEM	OPERATION
3.	Flying controls (contd.)	<p>(vi) Examine control surface fairings for damage caused by excessive movement of control surfaces.</p> <p>(vii) Examine control surfaces for distortion and damage, particularly in the vicinity of hinge brackets.</p> <p>(viii) Examine actuating arms and levers for distortion, fracture and rivet failure.</p> <p>(ix) Refit all access panels ensuring that none has been distorted or strained.</p>
4.	Aircraft generally.	Remove from the aircraft all tools, rags and other Servicing materials.
5.	Servicing Documents.	Sign for completing the relevant Servicing.

# HUNTER AIRCRAFT SERVICING SCHEDULES

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## SECTION 4 ADDITIONAL SERVICING AFTER HOOD JETTISON UNIT HAS BEEN FIRED (TWO SEAT AIRCRAFT)

VOLUME 5, PART 2

### AIRFRAME (4)

Item No.	ITEM	OPERATION
1.	General.	Read Lethal Warning Card, Safety Precautions and Servicing Notes of this Handbook.
2.	Ejection seat(s) (general safety)	Ensure that the safety pins have been inserted into the 'Safe for Servicing' positions as detailed and illustrated in SAFETY PRECAUTIONS of this Handbook.
3.	(a) Firing unit. ) (b) Pipelines. ) (c) Gas guns (2 off) )	(i) Remove. (ii) Fit new items.
	<u>N.B.</u> Items which have been removed are subject to persistent corrosion and should be <u>disposed of as scrap.</u>	
4.	Jettison system.	Test the system as detailed in Part 2, Section 5, of this Schedule.
5.	Aircraft generally.	Remove from the aircraft all tools, rags and other Servicing materials.
6.	Servicing Documents.	Sign for completing the relevant Servicing.

Item  
No.

ITEM

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# HUNTER AIRCRAFT SERVICING SCHEDULES

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**SECTION 4**  
**ADDITIONAL SERVICING**  
**REMOVAL OF EJECTION SEAT AND CARTRIDGES**  
(SINGLE SEAT AIRCRAFT)

**VOLUME 5, PART 2**

ARMAMENT (1)

<u>Item No.</u>	<u>ITEM</u>	<u>OPERATION</u>
1.	General.	Read Lethal Warning Card, Safety Precautions and Servicing Notes of this Handbook.
2.	Ejection seat(s) (general safety)	Ensure that the safety pins have been inserted into the 'Safe for Servicing' positions as detailed and illustrated in SAFETY PRECAUTIONS of this Handbook.
3.	Hood.	Request Airframe Tradesman to remove.
4.	Seat pan.	Raise to the highest position.
5.	(a) Barostatic time release unit ) static rod. ) (b) Mic/tel lead. ) (c) Low pressure oxygen hose. ) (d) Emergency oxygen hose. )	Disconnect.
6.	Emergency oxygen manual release cable.	(i) Disconnect at floor anchorage. (ii) Separate at knurled nuts.
7.	Leg restraint cords.	(i) Disconnect from anchor brackets. (ii) Stow in seat pan.

Item No.	ITEM	OPERATION
<u>N.B.</u>	As cartridges are removed they are to be placed into a suitably fitted container <u>marked with cartridge expiry date and aircraft serial number.</u>	
8.	Ejection seat.	
	(a) Seat structure.	(i) Remove primary firing unit. (ii) Attach lifting sling to scissor shackle. (iii) Withdraw top latch. (iv) Raise seat structure on guide rail and remove from aircraft ensuring that the lifting is at the correct angle to the guide rail.
	(b) Ejection gun.	Remove from aircraft.
	(c) Cartridge housing covers. )	Remove.
	(d) Secondary cartridges. )	
	(e) Cartridge housing covers. )	Refit.
	(f) Primary firing unit. )	
	(g) Hood jettison and time delay unit.	Remove from guide rail.
9.	Cartridge container.	Remove to explosive store.
10.	(a) Seat structure. )	
	(b) Ejection gun. )	(i) Label with aircraft serial number.
	(c) Drogue gun. )	(ii) Transport to Armament Bay for servicing or storage as required.
	(d) Hood jettison and time delay unit. )	
11.	Aircraft generally.	Remove from the aircraft all tools, rags and other Servicing materials.

# HUNTER AIRCRAFT SERVICING SCHEDULES

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**SECTION 4**  
**ADDITIONAL SERVICING**  
**REMOVAL OF EJECTION SEAT AND CARTRIDGES**  
**(SINGLE SEAT AIRCRAFT)**

**VOLUME 5, PART 2**

ARMAMENT (1)

<u>Item No.</u>	<u>ITEM</u>	<u>OPERATION</u>
12.	Hood.	If applicable, request Airframe Tradesman to refit.
13.	Servicing Documents.	Sign for completing the relevant Servicing.

Item  
No.

ITEM

OPERATION

# HUNTER AIRCRAFT SERVICING SCHEDULES

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## SECTION 4 ADDITIONAL SERVICING FITTING OF EJECTION SEAT AND CARTRIDGES (SINGLE SEAT AIRCRAFT)

VOLUME 5, PART 2

### ARMAMENT (2)

Item No.	ITEM	OPERATION
1.	General.	Read Lethal Warning Card, Safety Precautions and Servicing Notes of this Handbook.
<u>N.B.</u> Items 2 to 14 are <u>PRE-INSTALLATION</u> preparation and checks.		
2.	Ejection gun.	Ensure unloaded and also correct item for seat; check and operate release button; ensure that gun piston is locked to cylinder. Examine primary firing unit and check that firing pin is not protruding.
3.	Hood jettison and time delay unit.	Ensure unit is unloaded. Examine firing unit body and check that firing pin is not protruding. Examine articulated link.
4.	Barostatic time release unit.	Examine unit and static rod.
5.	Drogue gun.	Ensure unloaded. Check that firing pin is not protruding and ensure that safety lock pin is fitted.

Item No.	ITEM	OPERATION
6.	Ejection seat. (a) Seat structure. ) (b) Top latch, safety pin and ) lanyard. ) (c) Seat pan assembly. ) (d) Firing handle assembly. ) (e) Leg restraint cord ) attachments. ) (f) Snubbing units. ) (g) Seat adjusting mechanism. )	Examine.  Raise to the highest position.
7.	Emergency oxygen.	Ensure safety pin fitted and 'tell-tale' wire intact.
8.	Drogue container.	Ensure flaps, wire loop and flap securing pin are assembled correctly.
9.	Scissor shackle.	Ensure locked correctly over drogue shackle.
10.	Face screen and firing handle assembly.	Ensure safety pin fitted.
11.	Alternative firing handle cable.	Ensure looped over red fork of main firing cable.
12.	(a) Low pressure oxygen hose. ) (b) Anti G hose. )	Examine.

# HUNTER AIRCRAFT SERVICING SCHEDULES

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## SECTION 4 ADDITIONAL SERVICING FITTING OF EJECTION SEAT AND CARTRIDGES (SINGLE SEAT AIRCRAFT)

VOLUME 5, PART 2

### ARMAMENT (2)

Item No.	ITEM	OPERATION
13.	Safety equipment.	
	(a) Complete equipment.	Examine; check equipment is the correct item for the seat.
	(b) Rip cord.	Check safety tie is intact.
	(c) 'D' rings.	Ensure stowed and secured correctly.
	<u>N.B.</u> Operation (d) is applicable only to seats <u>without guillotine separation embodied.</u>	
	(d) Slide disconnect.	(i) Ensure assembled and positioned correctly. (ii) Check safety tie is intact and secure. (S.I./EJECTION SEAT/24 refers)
14.	Cartridges.	Ensure correct items for seat; check legibility of expiry dates.
15.	Hood.	If applicable, request Airframe Tradesman to remove.
16.	Ejection gun.	(i) Remove cartridge housing covers and clean housings. (ii) Fit cartridges. (iii) Refit, lock and seal housing covers.

Item No.	ITEM	OPERATION
17.	Guide rail.	(i) Examine rail and attachments. (ii) Check, operate and lubricate bottom latch plunger with grease XG-275.
18. (a)	Hood jettison and time delay unit.	Refit.
	(b) Ejection gun.	Fit to guide rail; ensure locked correctly.
19.	Ejection seat.	(i) Raise and position over guide rail. (ii) Lower carefully down guide rail engaging rollers with flanges. (iii) Hold out top latch. (iv) Lower seat fully, release top latch ensuring correctly engaged, fit top latch safety pin.
20. (a)	Barostatic time release unit ) static rod. )	Connect.
(b)	Mic/tel lead. )	
(c)	Anti 'G' hose. )	

N.B. Item 21 is applicable only when the seat has been Bay Serviced.

21. Firing cables. Carry out 'Pull-off' tests as detailed in Part 2, Section 5 of this Schedule.

## HUNTER AIRCRAFT SERVICING SCHEDULES

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### SECTION 4 ADDITIONAL SERVICING FITTING OF EJECTION SEAT AND CARTRIDGES (SINGLE SEAT AIRCRAFT)

VOLUME 5, PART 2

#### ARMAMENT (2)

Item No.	ITEM	OPERATION
22.	Low pressure oxygen hose.	(i) Ensure Aerolex clip fitted.
		(ii) Clean male portion ensuring all traces of old silicone grease are removed.
		(iii) Apply thin film of silicone grease XG-315 (34B/9100519). <u>NOTE:-</u> No other grease may be used for this purpose.
		(iv) Ensure Aerolex cap is located squarely as near as possible to the top of the main portion (S.I./EJECTION SEAT/20 refers).
		(v) Ensure hose not under tension with seat in highest position. Stow the free end.
23.	Leg restraint cords.	Connect to floor anchorage brackets.
24.	Primary firing unit.	(i) Clean breech housing.
		(ii) Fit cartridges.
		(iii) Check firing pin not protruding and ensure sear fitted correctly.
		(iv) Screw firing unit body firmly with the breech.
		(v) Fit safety pin; lock and seal firing unit body.
		(vi) Repeat Operations (i) to (v) for hood firing unit.

Item No.	ITEM	OPERATION
25.	Drogue gun.	<ul style="list-style-type: none"> <li>(i) Ensure safety lock pin fitted.</li> <li>(ii) Fit cartridge.</li> <li>(iii) Check firing pin not protruding and ensure sear fitted correctly.</li> <li>(iv) Screw barrel firmly into firing unit body; lock and seal.</li> <li>(v) Connect drogue withdrawal line to lug on piston.</li> <li>(vi) Ensure withdrawal line lies over the TOP of the black P.V.C. lifting line.</li> <li>(vii) Connect static rod.</li> </ul>
26.	Firing cables.	<ul style="list-style-type: none"> <li>(i) Thread the trip lever firing cable through the eye of the alternative firing handle cable.</li> <li>(ii) Connect the main firing cable and hood jettison cable to the sear of the hood firing unit, ensuring slack is not excessive. <u>NOTE:-</u> The main firing cable must be placed on the sear <b>FIRST</b>.</li> </ul>
27.	Time delay unit.	<ul style="list-style-type: none"> <li>(i) Cock the unit, at the same time placing the red firing cable over the trip lever.</li> <li>(ii) Fit trip lever safety pin.</li> <li>(iii) Connect articulated link.</li> <li>(iv) Secure scissor shackle to drogue container flap pin with thread.</li> </ul>

# HUNTER AIRCRAFT SERVICING SCHEDULES

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## SECTION 4 ADDITIONAL SERVICING FITTING OF EJECTION SEAT AND CARTRIDGES (SINGLE SEAT AIRCRAFT)

VOLUME 5, PART 2

### ARMAMENT (2)

Item No.	ITEM	OPERATION
28.	(a) Emergency oxygen )	(i) Fit.
	(b) Safety equipment. )	(ii) Remove safety lock pin and emergency oxygen safety pin.
	(c) Oxygen system.	Request Instrument Tradesman to carry out flow test.
29.	Ejection seat(s) (general safety)	(i) Ensure that the safety pins are left in the 'Safe for Servicing' position as detailed and illustrated in SAFETY PRECAUTIONS of this Handbook.  (ii) Inform N.C.O. i/c Servicing that the aircraft is in 'Safe for Servicing' condition.
30.	Aircraft generally.	Remove from the aircraft all tools, rags and other Servicing materials.
31.	Hood.	Request Airframe Tradesman to refit.
32.	Servicing Documents.	Sign for completing the relevant Servicing.
		<u>NOTE:</u> The aircraft should now be handed over for an independent check of the ejection seat installation.

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Item  
No.

ITEM

OPERATION

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33. Ejection seat installation  
independent check.

An independent check of the ejection seat installation should be made by an Armament N.C.O. who has not been connected with either the Bay Servicing or Installation of the seat.

34. Servicing Documents.

Sign for completing the independent check of the relevant Servicing.

## HUNTER AIRCRAFT SERVICING SCHEDULES

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### SECTION 4 ADDITIONAL SERVICING REMOVAL OF EJECTION SEAT(S) AND CARTRIDGES (TWO SEAT AIRCRAFT)

VOLUME 5, PART 2

#### ARMAMENT (3)

Item No.	ITEM	OPERATION
1.	General.	Read Lethal Warning Card, Safety Precautions and Servicing Notes of this Handbook.
2.	Ejection seat(s) (general safety)	Ensure that the safety pins have been inserted into the 'Safe for Servicing' positions as detailed and illustrated in SAFETY PRECAUTIONS of this Handbook.
3.	Seat pan.	Raise to the highest position.
4.	Firing cables.	Disconnect as follows:-
(a)	Port quadrant lever.	Lock to quadrant guard (large pin).
(b)	Starboard quadrant lever.	Disconnect from torque shaft and rotate forward.
(c)	Hood firing cable.	Disconnect from lever.
(d)	Starboard quadrant lever.	Rotate rearwards and reconnect to torque shaft.
(e)	Port quadrant lever.	Disconnect from torque shaft, unlock from guard and rotate forwards.
(f)	Hood firing cable.	Disconnect from lever.
(g)	Port quadrant lever.	Rotate rearwards, lock to quadrant guard and reconnect to torque shaft.
(h)	Main firing cables.	Disconnect from sear of primary firing units.

Item No.	ITEM	OPERATION
<u>N.B.</u>	As cartridges are removed they are to be placed into a suitably fitted container <u>marked with cartridge expiry date and aircraft serial number.</u>	
5.	Hood firing unit. (a) Seal and lockwire.                    ) (b) Safety pin.                                ) (c) Hood firing head. (d) Hood cartridge. (e) Firing unit.	Remove.  Unscrew carefully. Remove. Seal with masking tape.
6.	Breech time delay unit. (a) Seal and lockwire. (b) Safety pin.  (c) Delay unit.	Remove. Remove from sear (large pin to remain fitted to port quadrant lever). Unscrew carefully.
7.	Primary cartridge.	Remove.
8.	Drogue gun. (a) Safety lock pin. (b) Static rod.                                ) (c) Shackle.                                    ) (d) Seal and lockwire. (e) Barrel.	Ensure fitted. Disconnect.  Remove. Unscrew.
9.	Drogue gun cartridge.	Remove.
10.	Barrel housing.	Seal with masking tape.

# HUNTER AIRCRAFT SERVICING SCHEDULES

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## SECTION 4 ADDITIONAL SERVICING REMOVAL OF EJECTION SEAT(S) AND CARTRIDGES (TWO SEAT AIRCRAFT)

VOLUME 5, PART 2

### ARMAMENT (3)

Item No.	ITEM	OPERATION
11.	(a) Time release unit static rod quick release pin.	Remove.
	(b) Leg restraint cords.	(i) Disconnect from floor anchorages. (ii) Stow in seat pan.
	(c) Low pressure oxygen hose. )	
	(d) Anti 'G' hose. )	Disconnect.
	(e) Mic/tel plug. )	
	(f) Mic/tel socket.	Remove from bracket.
	(g) Throttle levers.	Move to fully forward.
12.	Ejection seat.	
	(a) Seat structure.	(i) Remove ejection gun top anchor bolt. (ii) Tilt seat forward. (iii) Screw top latch fully out. (iv) Raise seat structure on guide rail and remove from aircraft ensuring that the lifting is at the correct angle to the guide rail (avoid fouling hood).
	(b) Ejection gun housing covers. )	Remove.
	(c) Secondary cartridges. )	
	(d) Housing covers.	Refit.
	(e) Ejection gun.	Remove from aircraft.

Item  
No.

ITEM

OPERATION

- |     |                       |   |      |  |
|-----|-----------------------|---|------|--|
| 13. | Cartridge container.  |   |      | Remove to explosive store.   |
| 14. | (a) Seat structure.   | ) | (i)  | Label with aircraft serial number.   |
|     | (b) Ejection gun.     | ) | (ii) | Transport to Armament Bay for  |
|     | (c) Drogue gun.       | ) |      | servicing or storage as required.  |
|     | (d) Hood firing head. | ) |      |  |
| 15. | Aircraft generally.   |   |      | Remove from the aircraft all tools, rags and<br>other Servicing materials. |
| 16. | Servicing Documents.  |   |      | Sign for completing the relevant Servicing.                                |

# HUNTER AIRCRAFT SERVICING SCHEDULES

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## SECTION 4 ADDITIONAL SERVICING FITTING OF EJECTION SEAT(S) AND CARTRIDGES (TWO SEAT AIRCRAFT)

VOLUME 5, PART 2

### ARMAMENT (4)

Item No.	ITEM	OPERATION
1.	General.	Read Lethal Warning Card, Safety Precautions and Servicing Notes of this Handbook.
<u>N.B.</u> Items 2 to 10 are <u>PRE-INSTALLATION</u> preparation and checks.		
2.	Ejection gun.	Ensure unloaded and also correct item for seat.
3.	Hood jettison and time delay units.	Ensure unloaded. Check correct sears fitted and firing pins not protruding.
4.	Barostatic time release unit.	Examine unit and static rod. Ensure secure to seat structure.
5.	Drogue gun.	Ensure unloaded. Check that firing pin is not protruding and ensure that safety lock pin is fitted.
6.	Ejection seat.	
	(a) Seat structure. )	
	(b) Seat pan assembly. )	
	(c) Firing handle assembly. )	Examine.
	(d) Leg restraint cord attachments )	
	(e) Snubbing units. )	
	(f) Manual over-ride lever. )	Ensure fully down.
	(g) Go forward lever. )	

Item No.	ITEM	OPERATION
6.	Ejection seat (contd.) (h) Seat adjustment mechanism. (j) Top latch.	Raise to highest position. Ensure fully out.
7.	Emergency oxygen.	Ensure safety pin fitted and 'tell-tale' wire intact.
8.	Hood jettison mechanism port quadrant lever.	Ensure locked to quadrant guard.
9.	Throttle levers.	Ensure fully forward.
10.	Cartridges.	Ensure correct items for seat; check legibility of expiry dates.
11.	Ejection gun.	<ul style="list-style-type: none"> <li>(i) Remove cartridge housing covers and clean housings.</li> <li>(ii) Fit secondary cartridges.</li> <li>(iii) Refit, lock and seal housing covers.</li> <li>(iv) Fit gun to aircraft engaging bottom bolt only.</li> <li>(v) Ensure gun beam locating pin slot is aligned centrally with cylinder latch housing.</li> </ul>
12.	Ejection seat.	<ul style="list-style-type: none"> <li>(i) Ensure top latch screwed fully out.</li> <li>(ii) Raise and position seat over guide rail.</li> <li>(iii) Lower carefully down guide rail engaging slippers with flanges.</li> <li>(iv) Ensure ejection gun is protruding through the seat cross beam.</li> </ul>

# HUNTER AIRCRAFT SERVICING SCHEDULES

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## SECTION 4 ADDITIONAL SERVICING FITTING OF EJECTION SEAT(S) AND CARTRIDGES (TWO SEAT AIRCRAFT)

VOLUME 5, PART 2

### ARMAMENT (4)

Item No.	ITEM	OPERATION
13.	Top latch.	
	<u>N.B.</u> Operations (i) to (iv) are applicable only to ejection seats <u>without Martin Baker Mod.2016 incorporated.</u>	
		(i) Screw top latch fully home using tommy bar.
		(ii) Screw back knurled nut to check that the last $\frac{1}{2}$ to 2 turns are free from spring loading.
		<u>WARNING:</u> If more than 2 turns of free movement are possible, screw knurled nut fully back, re-position seat or ejection gun and repeat Operations (i) and (ii). If free movement still exceeds 2 turns the top latch is to be removed and serviced as detailed in A.P.4288 Vol. 1, Part 2, Section 12.
		(iii) Screw top latch fully home and wire lock.
		(iv) Ensure seat is positively locked by attempting to raise on guide rail.
	<u>N.B.</u> Operations (v) to (vii) are applicable only to ejection seats <u>with Martin Baker Mod.2016 incorporated.</u>	
		(v) Unscrew handwheel to engage top latch.

Item No.	ITEM	OPERATION
13.	Top latch (contd.)	(vi) Check that top latch plunger is not protruding past the housing and that the indicator is flush. <u>NOTE:-</u> If this check is incorrect the mal-positioning of the seat is to be rectified and Operations (v) and (vi) repeated. (vii) Ensure seat is positively locked by attempting to raise on guide rail.
14.	Seat structure.	Tilt carefully to the rear, engage and secure on top bracket.
15.	(a) Mic/tel plug and socket. ) (b) Anti-'G' hose. ) (c) Leg restraint cords. )	Connect.
16.	Time release unit.	(i) Connect static rod to bracket. (ii) Secure to seat structure with linen thread (S.I./EJECTION SEAT/22 refers).

N.B. Item 17 is applicable only when the seat has been Bay Serviced.

17. Firing cables. Carry out 'Pull-off' tests as detailed in Part 2, Section 5 of this Schedule.

# HUNTER AIRCRAFT SERVICING SCHEDULES

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## SECTION 4 ADDITIONAL SERVICING FITTING OF EJECTION SEAT(S) AND CARTRIDGES (TWO SEAT AIRCRAFT)

VOLUME 5, PART 2

### ARMAMENT (4)

Item No.	ITEM	OPERATION
18.	Low pressure oxygen hose.	<p>(i) Ensure Aerolex clip is fitted.</p> <p>(ii) Clean male portion ensuring all traces of old silicone grease are removed.</p> <p>(iii) Apply thin film of silicone grease XG-315 (34B/9100519) <u>NOTE:</u> No other grease may be used for this purpose.</p> <p>(iv) Ensure Aerolex clip is located squarely as near as possible to the top of the main portion (S.I./EJECTION SEAT/20 refers).</p> <p>(v) Ensure hose is not under tension with seat in highest position. Stow the free end.</p>
19.	Ejection gun.	<p>(i) Clean breech.</p> <p>(ii) Insert primary cartridge.</p> <p>(iii) Screw time delay unit fully home in breech.</p> <p>(iv) Fit time delay unit safety pin, wire lock and lead seal.</p>
20.	Hood firing unit.	<p>(i) Remove masking tape and clean breech.</p> <p>(ii) Insert hood cartridge.</p> <p>(iii) Screw firing head fully home.</p> <p>(iv) Fit safety pin, wirelock and lead seal.</p>

Item No.	ITEM	OPERATION
21.	Drogue gun.	<ul style="list-style-type: none"> <li>(i) Ensure safety lock pin fitted.</li> <li>(ii) Remove barrel, clean breech.</li> <li>(iii) Insert drogue gun cartridge.</li> <li>(iv) Screw barrel fully home, wirelock and lead seal.</li> <li>(v) Connect drogue withdrawal line to lug of drogue gun piston.</li> <li>(vi) Connect static rod to guide rail bracket.</li> </ul>
22.	Firing cables.	<p>Connect as follows:-</p> <ul style="list-style-type: none"> <li>(a) Port quadrant lever. Unlock from torque shaft, remove lock pin and rotate forwards.</li> <li>(b) Main firing cable. Connect long leg to quadrant lever.</li> <li>(c) Port quadrant lever. Rotate rearwards, lock to torque shaft, refit lock pin.</li> <li>(d) Starboard quadrant lever. Repeat as for port quadrant lever Items (a), (b) and (c).</li> <li>(e) Main firing cable. Connect short leg to sear of breech time delay unit.</li> <li>(f) Scissor shackle. Hinge forward and secure to cover flap pin with thread.</li> </ul>
23.	Hood jettison unit.	Connect operating rod to sear of jettison unit.
24.	(a) Emergency oxygen. )	(i) Fit.
	(b) Safety equipment. )	(ii) Remove safety lock pin and emergency oxygen safety pin.
	(c) Oxygen system.	Request Instrument Tradesman to carry out flow test.

## HUNTER AIRCRAFT SERVICING SCHEDULES

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### SECTION 4 ADDITIONAL SERVICING FITTING OF EJECTION SEAT(S) AND CARTRIDGES (TWO SEAT AIRCRAFT)

VOLUME 5, PART 2

#### ARMAMENT (4)

<u>Item No.</u>	<u>ITEM</u>	<u>OPERATION</u>
25.	Ejection seat(s) (general safety)	(i) Ensure that the safety pins are left in the 'Safe for Servicing' position as detailed and illustrated in SAFETY PRECAUTIONS of this Handbook.  (ii) Inform N.C.O. i/c Servicing that the aircraft is in 'Safe for Servicing' condition.
26.	Aircraft generally.	Remove from the aircraft all tools, rags and other Servicing materials.
27.	Servicing Documents.	Sign for completing the relevant Servicing. <u>NOTE:</u> The aircraft should now be handed over for an independent check of the ejection seat installation.
28.	Ejection seat installation independent check.	An independent check of the ejection seat installation should be made by an Armament N.C.O. who has not been connected with either the Bay Servicing or Installation of the seat.
29.	Servicing Documents.	Sign for completing the independent check of the relevant Servicing.

Item  
No.

ITEM

OPERATION

## HUNTER AIRCRAFT SERVICING SCHEDULES

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### SECTION 4 ADDITIONAL SERVICING REMOVAL OF PYLONS

VOLUME 5, PART 2

#### ARMAMENT (5)

<u>Item No.</u>	<u>ITEM</u>	<u>OPERATION</u>
1.	General.	Read Lethal Warning Card, Safety Precautions and Servicing Notes of this Handbook.
2.	Ejection seat(s) (general safety)	Ensure that the safety pins have been inserted into the 'Safe for Servicing' positions as detailed and illustrated in SAFETY PRECAUTIONS of this Handbook.
3.	Mainplanes.	Remove access panels.
4.	Pylons.	(i) Disconnect electrical plugs. (ii) Remove fixing bolts. (iii) Remove from aircraft.
5.	Cover plates.	Request Engine Tradesman to inspect fuel and air seals for damage and fit cover plate.
6.	Access panels.	Refit, ensuring flush fitting and secure.
7.	Aircraft generally.	Remove from the aircraft all tools, rags and other Servicing materials.
8.	Servicing Documents.	Sign for completing the relevant Servicing.

Item  
No.

ITEM

OPERATION

# HUNTER AIRCRAFT SERVICING SCHEDULES

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## SECTION 4 ADDITIONAL SERVICING FITTING OF PYLONS

VOLUME 5, PART 2

### ARMAMENT (6)

Item No.	ITEM	OPERATION
1.	General.	Read Lethal Warning Card, Safety Precautions and Servicing Notes of this Handbook.
2.	Ejection seat(s) (general safety)	Ensure that the safety pins have been inserted into the 'Safe for Servicing' positions as detailed and illustrated in SAFETY PRECAUTIONS of this Handbook.
3.	Mainplanes.	Remove cover plates and access panels.
4.	Fuel and air valves bodies.	Request Engine Tradesman to inspect seals for security.
5.	Pylons.	(i) Position pylons under mainplanes. (ii) Request Engine Tradesman to ensure fuel and air connections are correctly mated. (iii) Attach pylons to mainplanes by fixing bolts. (iv) Examine for security of attachment. (v) Connect electrical plugs. (vi) Request Electrical Tradesman to carry out relevant tests. (vii) Refit access panels and cover plates.

Item  
No.

ITEM

OPERATION

6. Aircraft generally.

Remove from the aircraft all tools, rags and other Servicing materials.

7. Servicing Documents.

Sign for completing the relevant Servicing.

# HUNTER AIRCRAFT SERVICING SCHEDULES

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## SECTION 4 ADDITIONAL SERVICING REMOVAL OF 100 GALLON EXTERNAL FUEL TANKS (EJECTOR OR E.M. RELEASE UNITS)

VOLUME 5, PART 2

### ARMAMENT (7)

Item No.	ITEM	OPERATION
1.	General.	Read Lethal Warning Card, Safety Precautions and Servicing Notes of this Handbook.
2.	Ejection seat(s) (general safety)	Ensure that the safety pins have been inserted into the 'Safe for Servicing' positions as detailed and illustrated in SAFETY PRECAUTIONS of this Handbook.
3.	Access panels.	Remove, as applicable.
4.	(a) Power supplies. (b) Armament safety break.       ) (c) Gun leads (if applicable).    )	Ensure 'OFF'. Ensure disconnected.
5.	External fuel tanks.	(i) Ensure external fuel tanks are empty. (ii) Support tanks manually (front and rear). (iii) Operate E.M. release unit or lower the ejector release unit ( as applicable). (iv) Lower tanks approximately 6 ins. and disconnect tank refuelling valve plugs. (v) Remove fuel tanks.

Item  
No.

ITEM

OPERATION

N.B. Items 6 to 10 are applicable only if the aircraft is to fly without the external fuel tanks being replaced.

- |     |     |  |       |   |
|-----|-----|--|-------|---|
| 6.  | (a) | E.M. release units (if applicable)     | (i)   | Operate reset button and fit 'keeper' bar.                              |
|     |     |  | (ii)  | Fit crutching spanner.  |
|     |     |  | (iii) | Torque load to the requirements detailed in the aircraft Vol. 1.        |
|     |     |  | (iv)  | Carry out cocking test; remove crutching spanner.                       |
|     | (b) | Ejector release units (if applicable). | (i)   | Position securing plate on rear jaw of release unit.                    |
|     |     |  | (ii)  | Refit front jaw of release unit.  |
|     |     |  | (iii) | Torque load to the requirements detailed in the aircraft Vol. 1.        |
| 7.  | (a) | Armament safety break. )               |       | Reconnect.  |
|     | (b) | Gun leads (if applicable). )           |       |   |
| 8.  |     | Access panels.                         |       | Refit, as applicable.   |
| 9.  |     | Aircraft generally.                    |       | Remove from the aircraft all tools, rags and other Servicing materials. |
| 10. |     | Servicing Documents.                   |       | Sign for completing the relevant Servicing.                             |

## HUNTER AIRCRAFT SERVICING SCHEDULES

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### SECTION 4 ADDITIONAL SERVICING FITTING OF 100 GALLON EXTERNAL FUEL TANKS (EJECTOR OR E.M. RELEASE UNITS)

VOLUME 5, PART 2

#### ARMAMENT (8)

Item No.	ITEM	OPERATION
1.	General.	Read Lethal Warning Card, Safety Precautions and Servicing Notes of this Handbook.
2.	Ejection seat(s) (general safety).	Ensure that the safety pins have been inserted into the 'Safe for Servicing' positions as detailed and illustrated in SAFETY PRECAUTIONS of this Handbook.
3.	Access panels.	Remove, as applicable.
<u>N.B.</u> Item 4 is applicable only to tanks <u>being refitted after Primary Star Servicing.</u>		
4.	External fuel tanks.	Replace the fuel and air connection seals.
5.	(a) Power supplies. (b) Armament safety break.	Ensure OFF. Ensure disconnected.
<u>N.B.</u> Item 6 is applicable only to <u>ejector release units.</u>		
6.	Release units.	(i) Crutch down to lowest extent. (ii) Remove front jaw and position in tank lug.

Item No.	ITEM	OPERATION
<u>N.B.</u>	Item 7 is applicable only to <u>E.M. release units.</u>	
7.	Release units.	(i) Open unit by operating jettison button. (ii) Operate reset mechanism.
8.	External fuel tanks.	(i) Position under pylon. (ii) Connect refuelling valve plug to pylon. (iii) Fit crutching spanner. (iv) Raise tank until lug engages in release unit; continue to raise until spigots engage in holes and adaptors are in contact with fuel and air valves.
		<u>NOTE:-</u> Ensure that electrical cables are not trapped between the tank and the sole plate.
<u>N.B.</u>	Operation (v) is applicable only to <u>ejector release units.</u>	
		(v) Torque load to the requirements detailed in the aircraft Vol. 1.
<u>N.B.</u>	Operations (vi) to (viii) are applicable only to <u>E.M. release units.</u>	
		(vi) Carry out cocking test of release units. (vii) Torque load to the requirements detailed in the aircraft Vol. 1. (viii) Carry out second cocking test of release units. (ix) Remove crutching spanner.
9.	Access panels.	Refit, as applicable.

# HUNTER AIRCRAFT SERVICING SCHEDULES

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## SECTION 4 ADDITIONAL SERVICING FITTING OF 100 GALLON EXTERNAL FUEL TANKS (EJECTOR OR E.M. RELEASE UNITS)

VOLUME 5, PART 2

### ARMAMENT (8)

Item No.	ITEM	OPERATION
10.	Aircraft generally.	Remove from the aircraft all tools, rags and other Servicing materials.
11.	Servicing Documents.	Sign for completing the relevant Servicing.

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Item  
No.

ITEM

OPERATION

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## HUNTER AIRCRAFT SERVICING SCHEDULES

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SECTION 4  
ADDITIONAL SERVICING  
REMOVAL OF 230 GALLON EXTERNAL FUEL TANKS  
(EJECTOR RELEASE UNITS)

VOLUME 5, PART 2

### ARMAMENT (9)

Item No.	ITEM	OPERATION
1.	General.	Read Lethal Warning Card, Safety Precautions and Servicing Notes of this Handbook.
2.	Ejection seat(s) (general safety).	Ensure that the safety pins have been inserted into the 'Safe for Servicing' positions as detailed and illustrated in SAFETY PRECAUTIONS of this Handbook.
3.	Access panels.	Remove, as applicable.
4.	(a) Power supplies. (b) Armament safety break ) (c) Gun leads (if applicable). )	Ensure 'OFF'. Ensure disconnected.
5.	External fuel tanks.	(i) Ensure external fuel tanks are empty. (ii) Lower release units. (iii) Fit hoist to pylon; attach sling and tighten cables. (iv) Remove release unit front jaw. (v) Lower fuel tanks on to cradles. (vi) Remove hoist.

Item No.	ITEM	OPERATION
<u>N.B.</u>	Items 6 to 10 are applicable only if the aircraft <u>is to fly without the external fuel tanks being replaced.</u>	
6.	Release units.	(i) Position securing plate on rear jaw of release unit. (ii) Refit front jaw of release unit. (iii) Torque load to the requirements detailed in the aircraft Vol. 1.
7.	(a) Armament safety break. ) (b) Gun leads (if applicable). )	Reconnect.
8.	Access panels.	Refit, as applicable.
9.	Aircraft generally.	Remove from the aircraft all tools, rags and other Servicing materials.
10.	Servicing Documents.	Sign for completing the relevant Servicing.

## HUNTER AIRCRAFT SERVICING SCHEDULES

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### SECTION 4 ADDITIONAL SERVICING FITTING OF 230 GALLON EXTERNAL FUEL TANKS (EJECTOR RELEASE UNITS)

VOLUME 5, PART 2

#### ARMAMENT (10)

Item No.	ITEM	OPERATION
1.	General.	Read Lethal Warning Card, Safety Precautions and Servicing Notes of this Handbook.
2.	Ejection seat(s) (general safety)	Ensure that the safety pins have been inserted into the 'Safe for Servicing' positions as detailed and illustrated in SAFETY PRECAUTIONS of this Handbook.
3.	Access panels.	Remove, as applicable.
<u>N.B.</u> Item 4 is applicable only to tanks <u>being refitted after Primary Star Servicing.</u>		
4.	External fuel tanks.	Replace the fuel and air connection seals.
5.	(a) Power supplies. (b) Armament safety break.	Ensure 'OFF'. Ensure disconnected.
6.	Release units.	(i) Crutch down to lowest extent. (ii) Remove front jaw and position in tank lug.
7.	External fuel tanks.	(i) Position under pylon. (ii) Position hoisting sling under tank. (iii) Attach hoist to pylon bosses, wind out; attach cables to sling.

Item No.	ITEM	OPERATION
7.	External fuel tanks (contd.)	<ul style="list-style-type: none"> <li data-bbox="776 192 1487 247">(iv) Raise tank until suspension lug is engaged in rear jaw of release unit.</li> <li data-bbox="776 253 1487 340">(v) Fit front jaw of release unit; torque load to the requirements detailed in the aircraft Vol. 1.</li> <li data-bbox="776 346 1487 374">(vi) Remove hoist and hoisting sling.</li> </ul>

N.B. Item 8 is applicable after the external fuel tanks have been fuelled.

8.	Bracing struts.	<ul style="list-style-type: none"> <li data-bbox="776 457 1387 512">(i) Lubricate sockets and ball ends with grease ZX-28.</li> <li data-bbox="776 518 1387 547">(ii) Fit and adjust bracing struts.</li> <li data-bbox="776 553 1387 574">(iii) Lock with nuts and lockwire.</li> </ul>
9.	Access panels.	Refit, as applicable.
10.	Aircraft generally.	Remove from the aircraft all tools, rags and other Servicing materials.
11.	Servicing Documents.	Sign for completing the relevant Servicing.

## HUNTER AIRCRAFT SERVICING SCHEDULES

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SECTION 4  
ADDITIONAL SERVICING  
GUN PACK CHANGE  
(SINGLE SEAT AIRCRAFT)

VOLUME 5, PART 2

### ARMAMENT (11)

Item No.	ITEM	OPERATION
1.	General.	Read Lethal Warning Card, Safety Precautions and Servicing Notes of this Handbook.
2.	Ejection seat(s) (general safety)	Ensure that the safety pins have been inserted into the 'Safe for Servicing' positions as detailed and illustrated in SAFETY PRECAUTIONS of this Handbook.
3.	Tail trestle/jury strut.	Position beneath tail of the aircraft.
4.	(a) Gun firing safety devices. (b) Bomb/R.P. switch. (c) R.P. selector switch. (d) Armament safety plug.	Set to 'SAFE'. Set to 'OFF'. Set to '2'. Disconnect and ensure red warning pennant is clearly visible.
5.	(a) Radio bay access doors.	Remove. <u>NOTE:-</u> If links are present in empty link collectors, remove sufficient to allow doors to open.
	(b) Main supply plug.	Disconnect.
	(c) Front gun bay access doors.	Remove. <u>NOTE:-</u> Before removing starboard door, disconnect ventilator actuator motor lead.

Item No.	ITEM	OPERATION
5.	(contd.)	
	(d) Empty link collector.	(i) Remove. (ii) Empty, if necessary.
6.	(a) Heater pipe. )	
	(b) Ventilating duct. )	Remove.
	(c) Empty case ejection chutes. )	
	(d) Gun barrels.	Unlock from gun bodies and slide fully forward in barrel supports.
7.	(a) Fuselage.	(i) Support rear of fuselage with tail trestle or strut. (ii) Fit lifting spigots and attach side hoists. Position and winch up until clutch slips. Attach and wind up until clutch slips. Position under gun package. (i) Unlock, and lower on to cradle. (ii) Disconnect hoists. Remove from aircraft and place on racks or cradle.
	(b) Sling.	
	(c) Forward hoist.	
	(d) Cradle.	
	(e) Gun package.	
	(f) Gun barrels.	
8.	(a) Gun package. )	Transport to Bay for servicing.
	(b) Gun barrels. )	<u>NOTE:-</u> If stoppages have occurred, transport to a 'SAFE AREA' and clear stoppages before transporting to Bay.

## HUNTER AIRCRAFT SERVICING SCHEDULES

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### SECTION 4 ADDITIONAL SERVICING GUN PACK CHANGE (SINGLE SEAT AIRCRAFT)

VOLUME 5, PART 2

#### ARMAMENT (11)

Item No.	ITEM	OPERATION
<u>N.B.</u> Item 9 is applicable only if <u>further air firing is intended.</u>		
9.	(a) Gun package. )	Obtain a serviced armed package and serviced barrels from Bay and transport to aircraft.
	(b) Gun barrels. )	
<u>N.B.</u> Item 10 is applicable only if <u>further air firing is not intended.</u>		
10.	(a) Gun package. )	Obtain a serviced unarmed package and serviced barrels from Bay and transport to aircraft.
	(b) Gun barrels. )	
11.	Gun barrels.	Position in barrel supports and slide fully forward.
<u>N.B.</u> Functional tests of electrically operated components are to be <u>completed before the main supply lead is re-connected to the gun package.</u> It will be necessary to temporarily refit starboard front gun bay access door and connect ventilator actuator motor for the test. It is to be removed again on completion of test. If a defect is discovered in aircraft gun firing circuit or ventilation system, the Electrical Tradesman is to be requested to rectify and <u>the gun package is not to be connected until this has been carried out.</u>		
12.	(a) Gun package.	(i) Examine rack bolts and pinion mechanism, by operation, for a full and free range of movement and ensure lock ring on key operated shaft is free to slide on shaft.

Item No.	ITEM	OPERATION
12. (a)	Gun package (contd.)	(ii) With control shafts in the fully locked position, check that the six rack bolts are protruding approximately $\frac{1}{4}$ in. through their sockets. (iii) Position package under aircraft. (iv) Attach side and forward hoists. (v) Hoist into gun bay. (vi) Lock and examine for security of attachment.
(b)	Rack bolts.	Check that protrusion through sockets is approximately $\frac{1}{4}$ in. and lock ring on key operated shaft has descended to lowest (locked) position (S.I./HUNTER/11 refers).
(c)	Fuselage.	(i) Remove hoists.
(d)	Cradle.	(ii) Remove tail trestle or strut. Remove clear from aircraft.
13.	Gun barrels.	(i) Slide rearwards in barrel supports, engage in gun bodies and lock. (ii) Fit muzzle covers.
14. (a)	Ventilating duct. )	(i) Examine for damage.
(b)	Empty case ejection chutes. )	(ii) Refit, ensuring correct fitting.

N.B. Item 15 is applicable only after each gun firing sortie on aircraft with Mods. 645 and 646 embodied.

15. Empty case ejection chutes. Examine unwelded portions of internal seams for opening out. (S.I./HUNTER/53 refers).

## HUNTER AIRCRAFT SERVICING SCHEDULES

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SECTION 4  
ADDITIONAL SERVICING  
GUN PACK CHANGE  
(SINGLE SEAT AIRCRAFT)

VOLUME 5, PART 2

ARMAMENT (11)

Item No.	ITEM	OPERATION
16.	(a) Heater pipe. )	Refit and examine for correct locking.
	(b) Main supply plug. )	
	(c) Radio bay access doors.	Refit, ensuring toggle levers and recesses are correctly aligned.
	(d) Empty link collectors.	Refit, ensuring correctly fitted and locked.
	(e) Gun bay access doors.	(i) Refit and connect actuator motor lead on starboard door.
		(ii) Fasten and ensure toggle levers are correctly aligned.
17.	Aircraft generally.	Remove from the aircraft all tools, rags and other Servicing materials.
18.	Servicing Documents.	Sign for completing the relevant Servicing.

Item  
No.

ITEM

OPERATION

## HUNTER AIRCRAFT SERVICING SCHEDULES

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### SECTION 4 ADDITIONAL SERVICING REMOVAL OF ADEN GUN(S) AND/OR AMMUNITION BOX (TWO SEAT AIRCRAFT)

VOLUME 5, PART 2

#### ARMAMENT (12)

Item No.	ITEM	OPERATION
1.	General.	Read Lethal Warning Card, Safety Precautions and Servicing Notes of this Handbook.
2.	Ejection seat(s) (general safety)	Ensure that the safety pins have been inserted into the 'Safe for Servicing' positions as detailed and illustrated in SAFETY PRECAUTIONS of this Handbook.
3.	Tail trestle/jury strut.	Position beneath tail of the aircraft.
4.	(a) Gun firing safety devices. (b) Bomb/R.P. switch. (c) R.P. selector switch. (d) Armament safety plug.	Set to 'SAFE'. Set to 'OFF'. Set to '2'. Disconnect and ensure red warning pennant is clearly visible.
5.	(a) Armament access door(s). ) (b) Centre gun fairing(s). ) (c) Front gun fairing(s). )	Remove.
6.	Gun firing lead.	Disconnect.

Item No.	ITEM	OPERATION
7.	(a) Link chute(s). ) (b) Feed neck(s). )	Detach from gun(s). <u>NOTE:-</u> Secure feed neck(s) to underside of ammunition box using pip-pin(s).
<u>N.B.</u> Item 8 is <u>not essentially connected with gun removal</u> and can be carried out as desired, or ignored if ammunition box is not required to be removed.		
8.	Ammunition box removal.	
	(a) Hoist support tubes.	Fit to hoist and to aircraft.
	(b) Diaphragm.	Remove.
	(c) Hoist.	Disconnect cable yoke from stowage and attach cable to yoke of hoisting cables.
	(d) Ammunition box.	(i) Remove retaining pins and rear mounting assembly retaining pin.
		(ii) Operate hoist until ammunition box has moved over to port, then disengage box guide wheels from guide rail.
		(iii) Lower ammunition box on to transporter cradle and secure to cradle adaptor.
		(iv) Remove to Armament Bay.
	(e) Hoist.	Disconnect cables. Remove hoist and support tubes from aircraft.
9.	Aden gun(s) removal.	
	(a) Empty case ejection chute(s).	Remove forward section(s).
	(b) Blast tube(s) seal.	Slacken off.
	(c) Gun barrel(s).	Unlock from gun(s), slide forward in barrel supports.

## HUNTER AIRCRAFT SERVICING SCHEDULES

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### SECTION 4 ADDITIONAL SERVICING

VOLUME 5, PART 2

#### REMOVAL OF ADEN GUN(S) AND/OR AMMUNITION BOX (TWO SEAT AIRCRAFT)

#### ARMAMENT (12)

Item No.	ITEM	OPERATION
9.	Aden gun(s) removal (contd.)	
	(d) Hoist.	(i) Fit brace and brace extension. Fit lifting attachment to gun lug and secure with pip-pin.
		(ii) Operate hoist to take weight of gun and then remove gun rear attachment bolt.
		(iii) Operate hoist to lower gun to vertical position and then disconnect from gun. Remove lifting attachment.
	(e) Transporter cradle.	(i) Position so that adaptor encompasses body of gun.
		(ii) Engage cradle spigots on gun cradle bosses.
	(f) Aden gun(s).	(i) Release from front mounting.
		(ii) Refit cradle nut to trunnion.
		(iii) Withdraw gun barrel(s) from barrel supports.
		(iv) Remove gun(s) and barrel(s) to Armament Bay.
10.	Aircraft generally.	Remove from the aircraft all tools, rags and other Servicing materials.
11.	Servicing Documents.	Sign for completing the relevant Servicing.

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Item  
No.

ITEM

OPERATION

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## HUNTER AIRCRAFT SERVICING SCHEDULES

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### SECTION 4 ADDITIONAL SERVICING FITTING OF ADEN GUN(S) AND/OR AMMUNITION BOX (TWO SEAT AIRCRAFT)

VOLUME 5, PART 2

#### ARMAMENT (13)

Item No.	ITEM	OPERATION
1.	General.	Read Lethal Warning Card, Safety Precautions and Servicing Notes of this Handbook.
2.	Ejection seat(s) (general safety)	Ensure that the safety pins have been inserted into the 'Safe for Servicing' positions as detailed and illustrated in SAFETY PRECAUTIONS of this Handbook.
3.	Tail trestle/jury strut.	Ensure positioned beneath tail of the aircraft.
4.	(a) Gun firing safety devices. (b) Bomb/R.P. switch. (c) R.P. Selector switch. (d) Armament safety plug.	Ensure set to 'SAFE'. Ensure set to 'OFF'. Ensure set to '2'. Ensure disconnected and red warning pennant clearly visible.
5.	Gun firing circuits.	Request Electrical Tradesman to test.
6.	Aden gun(s) fitting. (a) Gun barrel(s). (b) Front mounting(s).	Insert into barrel supports. Lubricate spherical bearings and trunnions with anti-scuffing paste (34B/319).

Item  
No.

ITEM

OPERATION

6. Aden gun(s) fitting (contd.)  
(c) Aden gun(s).

- (i) Position transport cradle under the aircraft; remove cradle trunnion nut.
- (ii) Lift gun into position and secure front mounting by trunnion nut.
- (iii) Remove lifting attachment from gun; remove transporter cradle from vicinity of aircraft.
- (iv) Fit lifting attachments to rear of gun and attach hoisting cable.
- (v) Hoist gun into position and fit rear attachment bolt.
- (vi) Detach hoisting cable from gun; remove lifting attachment, hoist, hoist brace and extension.
- (vii) Fit gun barrel to gun, tighten blast tube seal.

7. Ammunition box fitting.

- (i) Fit hoist support tube to aircraft and hoist to support tube.
- (ii) Position transporter cradle under aircraft.
- (iii) Attach tank hoisting cables to tank and hoist cable to yoke of tank hoisting cables.
- (iv) Hoist ammunition box into position and engage guide wheels into guide rail.
- (v) Push over to starboard and fit retaining pins and rear mounting assembly pin.

# HUNTER AIRCRAFT SERVICING SCHEDULES

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## SECTION 4 ADDITIONAL SERVICING FITTING OF ADEN GUN(S) AND/OR AMMUNITION BOX (TWO SEAT AIRCRAFT)

VOLUME 5, PART 2

### ARMAMENT (13)

Item No.	ITEM	OPERATION
7.	Ammunition box fitting (contd.)	(vi) Detach hoisting cable from yoke of ammunition box cables. (vii) Fit diaphragm. (viii) Engage hoisting cable yoke in stowage and remove hoist support tube and hoist.
8.	Aircraft generally.	Remove from the aircraft all tools, rags and other Servicing materials.
9.	Servicing Documents.	Sign for completing the relevant Servicing.

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Item  
No.

ITEM

OPERATION

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## HUNTER AIRCRAFT SERVICING SCHEDULES

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### SECTION 4 ADDITIONAL SERVICING BOMBING-UP PROCEDURE

VOLUME 5, PART 2

#### ARMAMENT (14)

Item No.	ITEM	OPERATION
1.	General.	Read Lethal Warning Card, Safety Precautions and Servicing Notes of this Handbook.
2.	Ejection seat(s) (general safety)	Ensure that the safety pins have been inserted into the 'Safe for Servicing' positions as detailed and illustrated in SAFETY PRECAUTIONS of this Handbook.
3.	Pylons.	(i) Service as detailed in A.P.1664, Vol.2, Pt.3, Sect.1, Ch.20, Group 'A' Servicing. (ii) Carry out functional checks as detailed in Part 2, Section 5 of this Schedule.
4.	(a) Bomb safety devices. (b) Selector switches. (c) Armament safety plug.	Ensure fitted to stores. Set all firing and safety switches to 'SAFE'. Disconnect and ensure red warning pennant is clearly visible.
5.	(a) Bombs (if applicable). (b) 25 lb. external bombs and carriers (if applicable).	Load in accordance with A.P.2852B, Vol.1, Sect.5, Chap.4.(or relevant authorised instructions). Fit serviced carriers and bombs in accordance with A.P.1664, Vol.1, Sect.1, Chap.2. (or relevant authorised instructions).

Item No.	ITEM	OPERATION
6.	(a) Armament safety plug. (b) Bomb safety devices.	Reconnect. Immediately before take-off, remove and hand to Pilot.
7.	Aircraft generally.	Remove from the aircraft all tools, rags and other Servicing materials.
8.	Servicing Documents.	Sign for completing the relevant Servicing and enter details of bomb load.

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### SECTION 4 ADDITIONAL SERVICING DE-BOMBING PROCEDURE

VOLUME 5, PART 2

#### ARMAMENT (15)

<u>Item No.</u>	<u>ITEM</u>	<u>OPERATION</u>
1.	General.	Read Lethal Warning Card, Safety Precautions and Servicing Notes of this Handbook.
2.	Ejection seat(s) (general safety)	Ensure that the safety pins have been inserted into the 'Safe for Servicing' positions as detailed and illustrated in SAFETY PRECAUTIONS of this Handbook.
3.	(a) Bomb safety devices. (b) Selector switches. (c) Armament safety plug.	Obtain from pilot and fit. Set all firing and safety switches to 'SAFE'. Disconnect and ensure red warning pennant is clearly visible.
4.	(a) Bombs (if applicable). (b) 25 lb. external bombs and carriers (if applicable).	Unload as detailed in A.P.2852B, Vol.1, Sect.6, Chap.4. (or relevant authorised instructions). (i) Unload bombs as detailed in A.P.1664, Vol.1, Sect.1, Chap.22 (or relevant authorised instructions). (ii) Supporting carriers, press jettison button. (iii) Disconnect electrical plug and remove carriers to Armament Bay.

Item  
No.

ITEM

OPERATION

5. Pylons.

- (i) Examine for damage.
- (ii) Fit 3 in. x  $\frac{1}{2}$  dia. steel bar into jaws of No. 1, Mk. 1 release unit and cock release unit.
- (iii) Apply crutching load to the requirements detailed in the aircraft Vol. 1.

6. Access panels and doors.

Refit, ensuring flush fitting and secure.

7. Aircraft generally.

Remove from the aircraft all tools, rags and other Servicing materials.

8. Servicing Documents.

Sign for completing the relevant Servicing.

# HUNTER AIRCRAFT SERVICING SCHEDULES

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## SECTION 4 ADDITIONAL SERVICING FIRE EXTINGUISHER CARTRIDGE UNIT CHANGE

VOLUME 5, PART 2

### ARMAMENT (16)

Item No.	ITEM	OPERATION
1.	General.	Read Lethal Warning Card, Safety Precautions and Servicing Notes of this Handbook.
2.	Ejection seat(s) (general safety)	Ensure that the safety pins have been inserted into the 'Safe for Servicing' positions as detailed and illustrated in SAFETY PRECAUTIONS of this Handbook.
3.	Fire extinguisher bottle(s).	(i) Request Engine Tradesman to remove. Carry to Arming/Disarming point. (ii) Remove cartridge unit(s) (4 x 2 B.A. nuts).
4.	Cartridge unit(s).	(i) Return expired unit(s) to explosives storehouse and obtain new unit(s). (ii) Examine for damage and hand to N.C.O. for testing.
<u>N.B.</u> Item 5 is to be carried out at <u>Disarming/Arming point by Armament N.C.O.</u>		
5.	Cartridge unit(s).	Test as detailed in A.P.1661F, Vol.1, Sect.5, Chap.3 (or relevant authorised instructions) and return to Tradesman.

Item  
No.

ITEM

OPERATION

- |    |                              |   |
|----|------------------------------|---|
| 6. | Cartridge unit(s).           | (i) Ensure replacement date is inscribed on cartridge unit flange(s).<br>(ii) Fit to fire extinguisher bottle(s) and lock B.A. nuts with new tab washers. |
| 7. | Fire extinguisher bottle(s). | Hand to Engine Tradesman for fitting.   |
| 8. | Aircraft generally.          | Remove from the aircraft all tools, rags and other Servicing materials.   |
| 9. | Servicing Documents.         | Sign for completing the relevant Servicing.   |

# HUNTER AIRCRAFT SERVICING SCHEDULES

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## SECTION 4 ADDITIONAL SERVICING REMOVAL OF EJECTOR RELEASE UNITS

VOLUME 5, PART 2

### ARMAMENT (17)

Item No.	ITEM	OPERATION
1.	General.	Read Lethal Warning Card, Safety Precautions and Servicing Notes of this Handbook.
2.	Ejection seat(s) (general safety)	Ensure that the safety pins have been inserted into the 'Safe for Servicing' positions as detailed and illustrated in SAFETY PRECAUTIONS of this Handbook.
3.	(a) Pylon rear door.	Remove.
	(b) Pylon safety break.	Disconnect.
	(c) Wing access panel.	Remove.
	(d) Breech cap socket.	Disconnect and stow.
	(e) Crutching tool shaft. )	Fit.
	(f) Crutching handle. )	
	(g) External fuel tanks.	Ensure removed.
4.	Unit.	Lower fully, ensuring that the unit does not foul the aircraft structure or wing skin.
5.	(a) Transverse nuts and bolts. )	
	(b) Spigots locking wire. )	Remove.
	(c) Spigots bolts. )	
	(d) Spigots locking plates. )	

Item  
No.

ITEM

OPERATION

6. Ejector release unit.

Support.

7. (a) Spigots.  
(b) Backing plates.

)  
)

Remove.

8. Ejector release unit.

Lower and remove.

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## SECTION 4 ADDITIONAL SERVICING FITTING OF EJECTOR RELEASE UNITS

VOLUME 5, PART 2

### ARMAMENT (18)

Item No.	ITEM	OPERATION
1.	General.	Read Lethal Warning Card, Safety Precautions and Servicing Notes of this Handbook.
2.	Ejection seat(s) (general safety)	Ensure that the safety pins have been inserted into the 'Safe for Servicing' positions as detailed and illustrated in SAFETY PRECAUTIONS of this Handbook.
3.	Ejector release unit circuit.	Carry out functional test as detailed in Part 2 Section 5 of this Schedule.
4.	Jaw housing.	Ensure in lowest position.
5.	Ejector release unit.	Insert into pylon.
6.	(a) Backing plate. )	Fit.  Fit and lock with wire. Fit.  Connect.
	(b) Spigots. )	
	(c) Locking plates. )	
	(d) Bolts.	
	(e) Transverse bolts and nuts.	
7.	Unit supply lead.	

Item  
No.

ITEM

OPERATION

N.B. Item 8 is only applicable if aircraft is to be flown without external fuel tanks.

8. Sole plate.

Fit and torque load to 20 lb/ft. (plus or minus  
2 lb./ft.).

# HUNTER AIRCRAFT SERVICING SCHEDULES

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## SECTION 4 ADDITIONAL SERVICING REFUELLING

VOLUME 5, PART 2

### ENGINE (1)

Item No.	ITEM	OPERATION
1.	General.	Read Lethal Warning Card, Safety Precautions and Servicing Notes of this Handbook.
2.	Ejection seat(s) (general safety)	Ensure that the safety pins have been inserted into the 'Safe for Servicing' positions as detailed and illustrated in SAFETY PRECAUTIONS of this Handbook.
<u>N.B.</u> In Item 3, a Streamline filter is to be fitted in the <u>refueller delivery line.</u>		
3.	Fuel tanks.	(i) Ensure selector cock switches are set to 'AUTO'. (ii) Check contents. (iii) Calculate amount of fuel required to fill aircraft. <u>NOTE:-</u> External fuel tanks (if fitted) are to be included. (iv) Set L.P. cocks to 'OFF' and ensure defuelling cock is locked 'OFF'. (v) Set Venner time switch adjacent to refuelling coupling, to 'ON'.

Item No.	ITEM	OPERATION
3.	Fuel tanks (contd.)	<p>(vi) Replenish through refuelling connection in port wheel bay.  <u>NOTE:-</u> After 50 to 100 gallons have passed into aircraft, ensure that air is passing out of refuelling pressure relief valves.</p> <p>(vii) Check contents.  The difference in contents gauge readings is to agree with amount of fuel added (allowing for complete refuelling of any drop tanks). If more than 15 gallons discrepancy, inform N.C.O. i/c Servicing.</p> <p>(viii) Ensure indicator lights on Venner time switch are extinguished as each tank fills up, and that time switch is running throughout refuelling operation.</p> <p>(ix) Disconnect refueller.</p> <p>(x) Replace sealing cap on refuelling coupling.</p>
4.	Aircraft generally.	Remove from the aircraft all tools, rags and other Servicing materials.
5.	Servicing Documents.	Sign for completing the relevant Servicing and record Fuel State.

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## SECTION 4 ADDITIONAL SERVICING DEFUELLING

VOLUME 5, PART 2

### ENGINE (2)

Item No.	ITEM	OPERATION
1.	General.	Read Lethal Warning Card, Safety Precautions and Servicing Notes of this Handbook.
2.	Ejection seat(s) (general safety)	Ensure that the safety pins have been inserted into the 'Safe for Servicing' positions as detailed and illustrated in SAFETY PRECAUTIONS of this Handbook.

N.B. In Item 3, a Streamline filter is to be fitted in the refueller delivery line.

3.	Fuel tanks.	(i) Connect external power supply 'ON' and set battery master switch to 'ON'. (ii) Check contents. (iii) Turn L.P. cock to 'OFF'. (iv) Set fuel tank switches to 'AUTO'. (v) Turn defuelling cock 'ON'. (vi) Remove spine fairing. (vii) Remove blanking cap from external air line connection. (viii) Apply air pressure of 10 p.s.i. to pressure connection mounted in spine of centre fuselage. Ensure this air pressure remains constant throughout defuelling. (ix) Defuel through refuelling connection.
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Item  
No.

ITEM

OPERATION

3. Fuel tanks (contd.)

- (x) When defuelling is completed, set tank switches to 'OFF'.
- (xi) Check contents.
- (xii) Set battery master switch to 'OFF'.
- (xiii) Release air pressure, disconnect air supply line, and refit blanking cap.
- (xiv) Refit and secure spine fairing.
- (xv) Turn defuelling cock to 'OFF' and wire lock.
- (xvi) Disconnect refueller and refit sealing cap to refuelling coupling.

4. Aircraft generally.

Remove from the aircraft all tools, rags and other Servicing materials.

5. Servicing Documents.

Sign for completing relevant Servicing and record Fuel State.



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