

HUNTER AIRCRAFT SERVICING SCHEDULES

MK.57
(H.S.A.4)

REMOVAL AND INSTALLATION
ENGINE CHANGE UNIT
SECTION 1 — E.C.U. REMOVAL

VOLUME 5, PART 5

AIRFRAME N.C.O.

Item No.	ITEM	OPERATION
1.	General.	(i) Read Lethal Warning Card, Safety Precautions and Servicing Notes of this Handbook. (ii) Examine the aircraft Servicing Documents for any reports or information affecting this part of the Servicing.
2.	Ejection seat(s) and hood (general safety)	Ensure that the seat(s) and hood firing unit cartridges <u>have been removed</u> by the Armament Tradesman.
<u>N.B.</u> No further servicing is to be commenced <u>until this safety condition has been carried out.</u>		
3.	Braking parachute.	Supervise removal as detailed in the aircraft Vol. 1, Sect.2, Chap.2.
4.	Tail cone.	Supervise removal.
5.	Ground equipment	(i) Supervise the positioning of the aircraft and ground equipment. (ii) Supervise jacking up and levelling of aircraft. (iii) Supervise the positioning of the fuselage trolley.

Item
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OPERATION

- | Item No. | ITEM | OPERATION |
|----------|---------------------------------------|---|
| 6. | Rear transport joint attachment nuts. | Assisted by Airframe Tradesman, disconnect evenly and in pairs. |
| 7. | Rear fuselage. | (i) Ensure all connections are broken.
(ii) Supervise removal. |
| 8. | Servicing Documents. | Sign for completing the relevant Section of the Servicing. |

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AIRFRAME TRADESMAN

Item No.	ITEM	OPERATION
1.	General.	(i) Read Lethal Warning Card, Safety Precautions and Servicing Notes of this Handbook. (ii) Examine the aircraft Servicing Documents for any reports or information affecting this part of the Servicing.
2.	Ejection seat(s) and hood (general safety)	Ensure that the seat(s) and hood firing unit cartridges <u>have been removed</u> by the Armament Tradesman.
<u>N.B.</u> No further servicing is to be commenced <u>until this safety condition has been carried out.</u>		
3.	Braking parachute.	Assisted by Electrical Tradesman, remove as detailed in the aircraft Vol. 1, Sect.2, Chap.2.
4.	Tail cone.	Assisted by Electrical Tradesman, remove.
5.	Ground equipment.	As detailed by Airframe N.C.O. (i) Position ground equipment. (ii) Jack up at main jacking points until main wheels are approx. 2 ins. clear of ground. (iii) Level aircraft longitudinally and laterally.

Item No.	ITEM	OPERATION
6.	(a) Rear fuselage trolley.) (b) Centre fuselage trestle.)	In conjunction with Engine Tradesmen, position beneath fuselage and adjust to take the weight.
7.	(a) Flying control access panel. (b) Flying control rods (rear transport joint)	Remove from spine at transport joint. Disconnect.
8.	Rear transport joint. (a) Butt strap. (b) Hydraulic pipelines.	Remove and carefully suspend to prevent buckling. (i) Disconnect the two Avery couplings in the spine. (ii) Remove blanking caps from stowages and fit to Avery couplings. (iii) Stow couplings on the points from which blanking caps have been removed. (iv) Disconnect port and starboard air brake pipelines. (v) Fit blanks.
	(c) Attachment nuts.	In conjunction with Airframe N.C.O., unlock and disconnect evenly and in pairs.
9.	Rear fuselage.	In conjunction with Engine Tradesmen:- (i) Remove. (ii) Attach securing strap to underside fuselage.
10.	Servicing Documents.	Sign for completing the relevant Section of the Servicing.

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ELECTRICAL N.C.O.

Item No.	ITEM	OPERATION
1.	General.	(i) Read Lethal Warning Card, Safety Precautions and Servicing Notes of this Handbook. (ii) Examine the aircraft Servicing Documents for any reports or information affecting this part of the Servicing.
2.	Ejection seat(s) and hood (general safety)	Ensure that the seat(s) and hood firing unit cartridges have been removed by the Armament Tradesman.
<u>N.B.</u> No further servicing is to be commenced <u>until this safety condition has been carried out.</u>		
3.	High energy ignition system.	(i) Trip circuit breaker. (ii) Remove fuses. (iii) Inspect disconnection of H.T. leads.
4.	(a) Electrical connection.) (b) Cable assemblies) (as applicable))	Supervise disconnections, taping and stowage.
5.	E.C.U. removal.	Supervise safety of electrical equipment during removal of E.C.U.

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6. Servicing Documents.

Sign for completing the relevant Section of the
Servicing.

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ELECTRICAL TRADESMAN

Item No.	ITEM	OPERATION
1.	General.	(i) Read Lethal Warning Card, Safety Precautions and Servicing Notes of this Handbook. (ii) Examine the aircraft Servicing Documents for any reports or information affecting this part of the Servicing.
2.	Ejection seat(s) and hood (general safety)	Ensure that the seat(s) and hood firing unit cartridges have been removed by the Armament Tradesman.
<u>N.B.</u> No further servicing is to be commenced <u>until this safety condition has been carried out.</u>		
3.	(a) Batteries. (b) External power supply.	Disconnect. Ensure supply is not connected.
4.	Tail cone.	(i) Disconnect braking parachute. (ii) Assist Airframe Tradesman to remove braking parachute and tail cone.
5.	Rear transport joint.	Disconnect plugs and sockets for removal of rear fuselage.
6.	Cable assemblies. (rear transport joint)	(i) Disconnect at plug and socket or terminal block connections. (ii) Tape and stow back.

Item No.	ITEM	OPERATION
7.	Engine services plug and socket connections. (underside of engine).	Disconnect for removal of engine.
8.	High energy igniter plugs.	Disconnect H.T. leads and tape back.
9.	Overspeed relay cable. (starter access bay).	Disconnect and tape back to facilitate engine withdrawal.
10.	Electrical connections.	Protect all plugs and sockets with masking tape.
11.	E.C.U. removal.	Ensure cables do not foul during removal of E.C.U.
12.	Servicing Documents.	Sign for completing the relevant Section of the Servicing.

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ENGINE N.C.O.

Item No.	ITEM	OPERATION
1.	General.	(i) Read Lethal Warning Card, Safety Precautions and Servicing Notes of this Handbook. (ii) Examine the aircraft Servicing Documents for any reports or information affecting this part of the Servicing.
2.	Ejection seat(s) and hood (general safety)	Ensure that the seat(s) and hood firing unit cartridges have been removed by the Armament Tradesman.
<u>N.B.</u> No further servicing is to be commenced <u>until this safety condition has been carried out.</u>		
3.	H.P./L.P. cock controls (as applicable)	Ensure set to 'OFF'.
4.	Turbo-combustion starter (if fitted)	Supervise the removal of all cartridges from the breech and stowages.
5.	Fuel contents.	Ensure aircraft is partially drained to prevent siphoning of fuel, but contains sufficient for bleeding of engine fuel system.

Item No.	ITEM	OPERATION
6.	Jet pipe.	(i) Inspect disconnections. (ii) Supervise removal as detailed in the aircraft Vol.1, Sect.4, Chap.1.
7.	Unserviceable E.C.U.	(i) Inspect disconnections. (ii) Supervise positioning of E.C.U. trolley. (iii) Supervise removal of E.C.U. and towing clear of aircraft.
8.	Servicing Documents.	Sign for completing the relevant Section of the Servicing.

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Item No.	ITEM	OPERATION
1.	General.	(i) Read Lethal Warning Card, Safety Precautions and Servicing Notes of this Handbook. (ii) Examine the aircraft Servicing Documents for any reports or information affecting this part of the Servicing.
2.	Ejection seat(s) and hood (general safety)	Ensure that the seat(s) and hood firing unit cartridges have been removed by the Armament Tradesman.
<u>N.B.</u> No further servicing is to be commenced <u>until this safety condition has been carried out.</u>		
3.	Turbo-combustion starter (if fitted)	Remove all cartridges from the breech and stowages.
4.	Blanking boards.	Fit to air intakes.
5.	(a) Rear fuselage trolley.) (b) Centre fuselage trolley.)	Assist Airframe Tradesman to position.
6.	Thermo-couples.	Remove from jet pipe and stow clear.

Item No.	ITEM	OPERATION
7.	(a) Jet pipe access panels. (port and starboard) (b) Cooling outlet pipes. (port and starboard) (c) Engine drain pipe. (d) Bleed valve. (e) Jet pipe. (port and starboard)	Remove. Pull out and turn to engage retaining pin against skin plating. Pull out and turn to engage in retaining slot. Withdraw sealing flange and secure in the open position by turning central screw. (i) Open hinged access panels. (ii) Remove hinged panels. (iii) Close hinged panels. (iv) In conjunction with Airframe and Electrical Tradesmen, remove as detailed in the aircraft Vol.1, Sect.4, Chap.1.
8.	Rear fuel tanks.	(i) Close the twin gate valve and wire lock the control handle in this position. (ii) Disconnect the two pipelines at transport joint.
9.	Fuel tank pressurising lines.	Disconnect the two pipelines at transport joint.

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ENGINE TRADESMAN

Item No.	ITEM	OPERATION
10.	(a) Front engine mounting access panels (port and starboard)	Remove.
	(b) Air supply access panels (port and starboard)	
	(c) Igniter plug access panels (port and starboard)	
	(d) Gearbox drive access panel (port)	
	(e) Engine access door.	
	(f) Gearbox turret access door.	
	(g) Engine starter bay access door.	Open.
11.	Rear fuselage.	Assist Airframe Tradesmen to remove.
12.	(a) Fuel delivery pipe.	Disconnect.
	(b) Universal couplings.	
	(c) Combined overboard fuel drain	
	(d) Gun heating pipe.	

Item No.	ITEM	OPERATION
13.	(a) Fuel system pressurisation pipe.) (b) Cabin pressurisation pipe.)	Disconnect.
14.	Turbine drain pipe.	Disconnect and remove.
15.	(a) Starter fuel pipe.) (b) Starter air hose.) (c) Starter vent pipe.)	Disconnect and tape together for ease of E.C.U. withdrawal.
16.	(a) Fuel pressure switch pipe.) (b) Oil cooler drain pipe.) (c) Ventilation duct.)	Disconnect and remove.
17.	Front engine mountings. (port and starboard)	(i) Remove split pin and bolt. (ii) Secure clear of engine.
18.	Gearbox drive.	(i) Pull back spring loaded locking ring. (ii) Unscrew shaft retaining nut. (iii) Uncouple drive. <u>NOTE:</u> Drive is disconnected at engine bevel box and should be supported to eliminate possibility of damage.
19.	Breather pipe.	Disconnect and secure clear of engine.

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Item No.	ITEM	OPERATION
20.	Throttle control rod.	Disconnect from throttle control lever.
21.	Removable rail.	(i) Fit into position. (ii) Lock with pip pin. (iii) Screw up adjustment to bring rail into contact with engine front roller.
22.	E.C.U. trolley.	Supervised by Engine N.C.O.:- (i) Position at rear of aircraft. (ii) Align engine rear roller rails with engine rear roller. (iii) Ensure trolley is level fore and aft. (iv) Fit locking pin.
23.	Engine mounting trunnion caps (port and starboard)	(i) Unlock and remove four securing bolts. (ii) Remove trunnion caps. (iii) Remove locating nuts and bolts.

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24. Unserviceable E.C.U.

Supervised by Engine N.G.O.:-

- (i) Withdraw engine from aircraft on to trolley.
- (ii) Secure engine in position.
- (iii) Withdraw bolt to disengage trolley.
- (iv) Lower trolley on to its wheels.
- (v) Tow clear of aircraft.

25. Servicing Documents.

Sign for completing the relevant Section of the Servicing.

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INSTRUMENTS (GEN) N.C.O.

Item No.	ITEM	OPERATION
1.	General.	(i) Read Lethal Warning Card, Safety Precautions and Servicing Notes of this Handbook. (ii) Examine the aircraft Servicing Documents for any reports or information affecting this part of the Servicing.
2.	Ejection seat(s) and hood (general safety)	Ensure that the seat(s) and hood firing unit cartridges <u>have been removed</u> by the Armament Tradesman.
N.B. No further servicing is to be commenced <u>until this safety condition has been carried out.</u>		
3.	Rear fuselage. (a) Rear fuel tank unit cables) (port and starboard)) (b) Exhaust gas thermometer leads.) (c) Gyro compass detector unit) cable.)	Inspect disconnections at rear transport joint.
4.	Servicing Documents.	Sign for completing the relevant Section of the Servicing.

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RADAR/WIRELESS N.C.O.

Item No.	ITEM	OPERATION
1.	General.	(i) Read Lethal Warning Card, Safety Precautions and Servicing Notes of this Handbook. (ii) Examine the aircraft Servicing Documents for any reports or information affecting this part of the Servicing.
2.	Ejection seat(s) and hood (general safety)	Ensure that the seat(s) and hood firing unit cartridges <u>have been removed</u> by the Armament Tradesman.
	<u>N.B.</u> No further servicing is to be commenced <u>until this safety condition has been carried out.</u>	
3.	Rear fuselage. (a) Telebriefing plug and socket.) (b) Radar/Wireless cables) (as applicable)) (c) Aerial cable coupling(s)) (as applicable))	Inspect disconnections at rear transport joint.
4.	Servicing Documents.	Sign for completing the relevant Section of the Servicing.

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RADAR/WIRELESS TRADESMAN

Item No.	ITEM	OPERATION
1.	General.	(i) Read Lethal Warning Card, Safety Precautions and Servicing Notes of this Handbook. (ii) Examine the aircraft Servicing Documents for any reports or information affecting this part of the Servicing.
2.	Ejection seat(s) and hood (general safety)	Ensure that the seat(s) and hood firing unit cartridges <u>have been removed</u> by the Armament Tradesman.
<u>N.B.</u> No further servicing is to be commenced <u>until this safety condition has been carried out.</u>		
3.	Rear fuselage. (a) Telebriefing plug and socket.) (b) Radar/Wireless cables.) (as applicable)) (c) Aerial cable coupling(s)) (as applicable))	Disconnect at rear transport joint and stow.
4.	Servicing Documents.	Sign for completing the relevant Section of the Servicing.

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