

PROPELLION

SERVICING PROCEDURES

AP101B-1300-5A3B

FUNCTIONAL CHECKS AND TESTS

Sect 2

HUNTER ALL MARKS

Chap 4

AMENDED TO INCLUDE MK 9 CONTENT

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PROPELLION SP 211A (1) (1 to 13)		SERVICING PROCEDURES FUNCTIONAL CHECKS AND TESTS HUNTER ALL MARKS		AP101B-1300-5A3B Sect 2 Chap 4	SERVICING RECORD		RAF Form 2988																
<p><u>ENGINE STARTING, TESTING AND STOPPING</u> Applicable only to Mk6, 6A and 9 A/C.</p> <p>SAFETY AND SERVICING NOTES ARE TO BE COMPLIED WITH THROUGHOUT THE WORK DETAILED ON THIS CARD</p> <table border="1"> <tr> <th>TRADE</th> <th>M/HRS</th> <th>TRADE</th> <th>M/HRS</th> <th colspan="4">ASSOCIATED PROCEDURE CARDS</th> </tr> <tr> <td>Prop.</td> <td></td> <td></td> <td></td> <td colspan="4">SP 526, SP CSDE/Hunter/Vib./1</td> </tr> </table> <p><u>Special Tools and Equipment:</u></p> <p>Air Intake Safety Guards 26FX/95413 (Port), 26FX/95414 (Stbd). Accelerometer and Bracket. Test Resistor 5CZ/4337552.</p> <p>NB: During this Procedure ground running of engine is to be kept to a minimum and the checks detailed are only to be carried out when required.</p> <p><u>BLOCK 1</u></p> <p>1. <u>Preparation</u></p> <p>1.1 Engine oil sump. 1.2 Accessory gearbox oil sump. 1.3 Turret drive oil sump. } Replenish as necessary. (Oil OX-38).</p> <p>1.4 Aircraft fuel system. Replenish as necessary. (5A2, Sect 2).</p> <p>1.5 IPN tank. Replenish as necessary.</p> <p>1.6 Brake system pressure. Ensure 1500 lbf/in² minimum.</p> <p>Sub-item 1.7 is applicable only if ECU has been newly installed, inhibited, or if air is in the fuel system.</p> <p>1.7 Engine fuel system. Bleed.</p>								TRADE	M/HRS	TRADE	M/HRS	ASSOCIATED PROCEDURE CARDS				Prop.				SP 526, SP CSDE/Hunter/Vib./1			
TRADE	M/HRS	TRADE	M/HRS	ASSOCIATED PROCEDURE CARDS																			
Prop.				SP 526, SP CSDE/Hunter/Vib./1																			
TRADESMAN		Brief Details of Suspected Defect and SNOW When Applicable			SUPERVISOR																		
MAN HRS 1	INITS & TDM 2	3			MAN HRS 4	INITS & TDM 5																	

PROPELLION
SP 211A (2)

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ENGINE STARTING, TESTING AND STOPPING

SAFETY AND SERVICING NOTES ARE TO BE COMPLIED WITH THROUGHOUT THE WORK
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BLOCK 1

PROPELLION

2. Preparation

2.1 Aircraft. Position and secure for ground running.
2.2 Control locks.
2.3 Air intake blanks. } Remove.
2.4 Air intakes. Ensure clear.
2.5 Air intake safety guards. Fit.
2.6 Accelerometer and bracket. Assemble. (SP CSDE/Hunter/Vib/1.)

BLOCK 2

PROPELLION NCO

3. Pre-Start Checks

3.1 Undercarriage selector. Ensure set to 'DOWN' and locked.
3.2 Brake lever. Ensure locked 'ON'.
3.3 Flap selector. Ensure set to 'UP'.
3.4 Top temperature control switch. Ensure set to 'ON'.
3.5 Cabin pressurization. Ensure set to 'OFF'.
3.6 Cabin temperature.
3.7 Flood flow. } Ensure set to 'AUTO'.
3.8 Power controls. Ensure set to 'OFF'.

TRADESMAN

MAN
HRS
1

INITS
& TDM
2

Brief Details of
Suspected Defect and
SNOW
When Applicable
3

SUPERVISOR
MAN
HRS
4

INITS
& TDM
5

PROPELLION
SP 211A (3)

SERVICING PROCEDURES
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ENGINE STARTING, TESTING AND STOPPING

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Date:

TRADESMAN	Brief Details of Suspected Defect and SNOW When Applicable		SUPERVISOR	
	MAN HRS 1	INITS & TDM 2	MAN HRS 4	INITS & TDM 5

BLOCK 1 PROPULSION NCO

3. Pre-Start Checks

3.9 Battery master switch. } Set to 'ON'.
 3.10 Engine master switch. }
 3.11 Fire warning test button. (i) Press.
 (ii) Ensure fire warning illuminates.
 3.12 Relight system. (i) Operate.
 (ii) Ensure intermittent and audible.
 3.13 Anti-icing system switch. Ensure closed and indicator showing 'SHUT'

BLOCK 2 PROPULSION NCO

NB: If engine fails to start, close throttle and after one minute has elapsed a further attempt may be made.
 After three attempts to start, starter is to be allowed to cool before any further attempt is made.

4. Starting

4.1 Ignition switch. }
 4.2 LP fuel cock. } Set to 'ON'.
 4.3 Tank pump switches. }
 4.4 Throttle/HP cock. Set to 1 inch open.

NB: During sub-item 4.5 ensure engine lights up within 4 to 8 seconds and that the JPT does not exceed 560°C.

4.5 Starter button. Press for 2 seconds and release.

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BLOCK 1

PROPELLSTON NCO

4. Starting cont.

4.6 Idling rev/min. Ensure 2500 PLUS 200 MINUS NIL.

4.7 Oil pressure. (At 3600 rpm). Ensure indicated. (minimum 20 lbf/in²).

4.8 Hydraulic pressure warning light. } Ensure extinguished.

4.9 Generator warning light. }

BLOCK 2

PROPELLION NCO

5. Hydraulics

5.1 Throttle. Set to obtain 4500 rev/min.

5.2 Engine. Ensure smooth running.

5.3 Hydraulic pressure gauge. Ensure indicates 2850 PLUS 150 MINUS 50 lbf/in².

5.4 Hood control clutch. Set to 'IN'.

5.5 Hood selector switch. Set to close.

5.6 Hood seal. Ensure inflated.

5.7 Hood selector switch. Set to open.

5.8 Throttle. Set to 'IDLING'.

5.9 Hood control clutch. Set to 'NEUTRAL'.

Aircraft Ser No:
Date:

TRADESMAN		Brief Details of Suspected Defect and When Applicable		SUPERVISOR	
MAN	INITS	SNOW		MAN	INITS
HRS	& TDM			HRS	& TDM
1	2		3	4	5

1	2	3	4	5

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<u>ENGINE STARTING, TESTING AND STOPPING</u>			Aircraft Ser No: Date:				
			TRADESMAN		Brief Details of Suspected Defect and SNOW When Applicable	SUPERVISOR	
			MAN HRS 1	INITS & TDM 2		MAN HRS 4	INITS & TDM 5
SAFETY AND SERVICING NOTES ARE TO BE COMPLIED WITH THROUGHOUT THE WORK DETAILED ON THIS CARD							
BLOCK 1	PROPELLION NCO						
<p>6. <u>Air Bleed Valve Check</u></p> <p>NB: Variation in ambient air temperature will affect air bleed valve and IGV ram settings.</p> <p>6.1 Outside air temperature. Obtain outside air temperature and record in degrees centigrade.</p> <p>6.2 Anti-icing system switch. Ensure set to shut.</p> <p>6.3 Engine.</p> <ul style="list-style-type: none"> (i) Accelerate smoothly from idling RPM to ensure PV ram and bleed valve are functioning. (ii) Set engine at 7600 RPM and allow to soak for 3 minutes. (iii) Exercise engine throughout PV ram range twice then set engine to 7000 RPM. (iv) Using a throttle rate of approx. 25 RPM per second. smoothly decelerate until bleed valve opens. Record RPM for reference. (v) Reduce engine speed to 6000 RPM then smoothly accelerate at 25 RPM per second until bleed valve closes. Record RPM for reference. <p>NB: The bleed valve should operate on acceleration at 6700 + 50 RPM at 15°C. (Refer to Figure 1 for temperature correction).</p>							

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BLOCK 1

PROPELLION NCO

6. Air Bleed Valve Check cont.

6.3 Engine.

- (vi) Ensure bleed valve operating rev/min are within the limits of Fig 1, and that the engine is free from surge, bleed valve 'THUMP' or burbling during a rapid deceleration from governed speed. Record RPM at which bleed valve opens on rapid deceleration.
- (vii) Record BV setting RPM and OAT on Form 707B or as appropriate and on STC Form 1222 (STC UNITS ONLY).

BLOCK 2

PROPELLION NCO

7. Intake Guide Vane Ram Check

7.1 Outside air temperature. Obtain outside air temperature and record in degrees centigrade.

7.2 Anti-icing system switch. Ensure set to 'SHUT'.

7.3 Engine.

- (i) Accelerate smoothly from idling RPM to ensure PV ram and bleed valve are functioning.
- (ii) Set engine at 7600 RPM and allow to soak for 3 minutes.

Aircraft Ser No:
Date:

TRADESMAN		Brief Details of Suspected Defect and SNOW When Applicable		SUPERVISOR		
MAN HRS	INITS & TDM	1	2	3	4	INITS & TDM

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SAFETY AND SERVICING NOTES ARE TO BE COMPLIED WITH THROUGHOUT THE WORK DETAILED ON THIS CARD			TRADESMAN	Brief Details of Suspected Defect and SNOW When Applicable	SUPERVISOR
BLOCK 1	PROPELLION NCO		MAN HRS 1	INITS & TDM 2	MAN HRS 4
7. <u>Intake Guide Vane Ram Check</u> cont.		(iii) Exercise engine throughout the PV ram range twice. (iv) Slowly reduce RPM and ensure IGV ram leaves the -0° position within limits (Fig 1). (v) Reduce engine speed to 6000 RPM then slowly increase RPM and ensure the IGV ram leaves +25° position within limits (Fig 1). (vi) After change or adjustment of IGV ram it is essential to repeat the air bleed valve check detailed in Item 6.		3	INITS & TDM 5
NB:	Engine operation will normally be more satisfactory if PV ram is set near top of 25° limit; this will also reduce the requirement to re-adjust when checking bleed valve operation (Item 6).				
BLOCK 2	PROPELLION NCO				
8. <u>Anti-icing Check</u>					
8.1 Throttle.	Set to obtain 7600 rev/min.				
8.2 Anti-icing system switch.	Set to 'OPEN'.				
8.3 Rev/min.	Note a change.				

PROPULSION
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TRADESMAN	Brief Details of Suspected Defect and SNOW When Applicable		SUPERVISOR	
	MAN HRS 1	INITS & TDM 2	MAN HRS 4	INITS & TDM 5

BLOCK 1

PROPELLION NCO

8. Anti-icing Check cont.

8.4 JPT. Note increase. (approximately 20 degrees).

8.5 Anti-icing system switch. Set to 'SHUT'.

8.6 Rev/min. } Ensure return to approximately original readings.

8.7 JPT. }

8.8 Throttle. Set to 'IDLING' position.

BLOCK 2

PROPELLION NCO

NB: During Item 9 maximum governed rev/min and JPT are NOT to be exceeded.

9. Governed Rev/Min Check

9.1 Top temperature control switch. Set to 'OFF'.

9.2 Throttle. Set to fully open.

9.3 Governed rev/min. Ensure 8000 PLUS OR MINUS 50 maximum.

9.4 JPT. Ensure between 560 and 685 degrees C.

9.5 Throttle. Close to 'IDLING' position.

9.6 Top temperature control switch. Set to 'ON'.

PROPELLION
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BLOCK 1

PROPELLION NCO

11. Top Temperature Control Check

11.1	Temperature resistance (Normal).	Remove.
11.2	Temperature resistance (600 degrees C).	Fit.
11.3	Top temperature control micro switch (Nosewheel compartment)	Operate and hold.
11.4	Top temperature control switch.	Ensure set to 'ON'.
11.5	Throttle.	Move to open position until 600 degrees C JPT is reached. No increase in JPT should be recorded on further opening of throttle.
11.6	Throttle.	Close to 'IDLING' position.
11.7	Top temperature control switch.	Set to 'OFF'.
11.8	Throttle.	Move to fully open position.
11.9	Rev/min.	Ensure normal readings.
11.10	JPT.	
11.11	Top temperature control switch.	Set to 'ON'.

TRADESMAN		Brief Details of Suspected Defect and SNOW When Applicable		SUPERVISOR	
MAN HRS	INITS & TDM 1	2	3	MAN HRS	INITS & TDM 5

PROPELLION SP 211A (11)	SERVICING PROCEDURES FUNCTIONAL CHECKS AND TESTS HUNTER ALL MARKS	AP101B-1300-5A3B Sect 2 Chap 4	SERVICING RECORD Aircraft Ser No: Date:	RAF Form 2988B	
<u>ENGINE STARTING, TESTING AND STOPPING</u>		SAFETY AND SERVICING NOTES ARE TO BE COMPLIED WITH THROUGHOUT THE WORK DETAILED ON THIS CARD	TRADESMAN	Brief Details of Suspected Defect and SNOW When Applicable	SUPERVISOR
BLOCK 1	PROPULSION NCO		MAN HRS 1	INITS & TDM 2	MAN HRS 4
<p>11. <u>Top Temperature Control Check</u> cont.</p> <p>11.12 Throttle. Close to 'IDLING' position.</p> <p>11.13 Temperature resistance (600 degrees C). Remove.</p> <p>11.14 Temperature resistance (Normal). Refit.</p> <p>11.15 Top temperature control micro switch. Release.</p>					
BLOCK 2		PROPULSION NCO			
<p>12. <u>Checks Before Engine Shut Down</u></p> <p>12.1 Vibration survey. Carry out using technique CSDE/Hunter/VIB/1 on following occasions:</p> <ul style="list-style-type: none"> a. On engine installation after repair, reconnection, or in-service repair. b. On defect (installed). c. On test bed. <p>NB: A physical record is to be kept with engine documents.</p> <p>12.2 Flaps. 12.3 Air brakes. 12.4 Fuel transfer.</p> <p>12.5 Power controls.</p>					

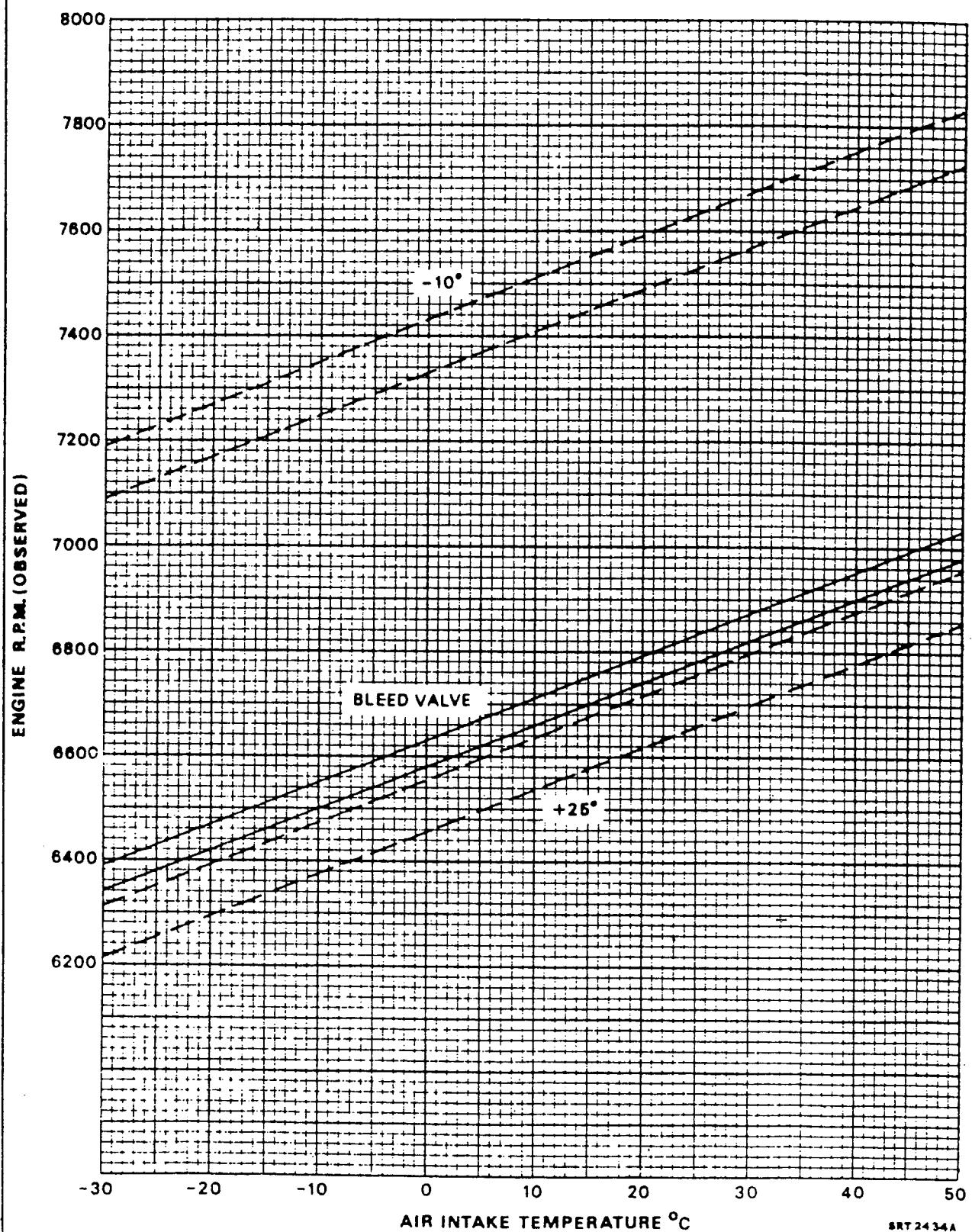


Fig.1 I.G.V. ram and air bleed valve setting curve

SRT 2434A

PROPELLION SP 215 (1) (1 to 5)		SERVICING PROCEDURES FUNCTIONAL CHECKS AND TESTS HUNTER ALL MARKS		AP101B-1300-5A3B Sect 2 Chap 4	SERVICING RECORD		RAF Form 2988B		
					Aircraft Ser No: Date:				
					TRADESMAN		BRIEF DETAILS OF SUSPECTED DEFECT AND SNOW WHEN APPLICABLE	SUPERVISOR	
					MAN HRS 1	INITS & TDM 2	3	MAN HRS 4	INITS & TDM 5
SAFETY AND SERVICING NOTES ARE TO BE COMPLIED WITH THROUGHOUT THE WORK DETAILED ON THIS CARD									
TRADE Prop. Elect	M/HRS	TRADE	M/HRS	ASSOCIATED PROCEDURE CARDS					
<p><u>Special Tools and Equipment:</u></p> <p>Calibrated Container.</p> <p>NB 1 At least one hour is to elapse after a 'live' start before this check is carried out.</p> <p>NB 2 This procedure is applicable whenever the starter fuel system is disturbed or on initial installation of starting system and is to be carried out BEFORE ANY ATTEMPT IS MADE TO START THE ENGINE.</p> <p>NB 3 The quantity of fuel from all drainage checks is to be recorded in the F700 with other IPN starter installation details.</p> <p>NB 4 Where fuel drainage does not follow the correct pattern, in that drainage stops early, or continues to drip steadily or is less than specified minimum, a blocked nozzle plate drain hole is indicated. This is a SERIOUS HAZARD and a start is not to be attempted until drain hole has been cleared.</p> <p>NB 5 If the fuel pump/air blower motor unit continues to run on after the air cycle is complete, an excessive amount of fuel will be discharged into, or through, the combustion chamber and may cause combustion products to be dislodged and block the nozzle plate holes. Should this situation arise, the nozzle plate must be examined and cleared as detailed in Item 6.</p>									

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			Aircraft Ser No: Date:				
<u>ENGINE STARTER SYSTEM - COMBINED FUEL PRIMING AND DRAINAGE CHECK</u>			TRADESMAN	Brief Details of Suspected Defect and SNOW When Applicable		SUPERVISOR	
SAFETY AND SERVICING NOTES ARE TO BE COMPLIED WITH THROUGHOUT THE WORK DETAILED ON THIS CARD			MAN HRS 1	INITS & TDM 2	3	MAN HRS 4	INITS & TDM 5
BLOCK 1		PROPELLION					
1. <u>Preparation</u>							
1.1 Engine master switch.		Ensure set to 'OFF'.					
1.2 Ignition switch.							
1.3 IPN fuel tank.			Replenish.				
1.4 Calibrated container.			Position under starter exhaust outlet.				
BLOCK 2		ELECTRICAL					
2. <u>Preparation</u>							
2.1 HF ignition unit LT lead.		(i) Disconnect. (ii) Connect a suitable test lamp to the plug to provide an indication of fuel pressure in the atomiser fuel line.					
2.2 Aircraft batteries.		Ensure fully charged.					
2.3 External d.c. power supply.		(i) Connect. (ii) Switch on. (iii) Adjust input to between 23 and 26 volt d.c. on load. NB: Ensure voltage is maintained within limits during the fuel priming. High or low voltages will give incorrect fuel drainage.					

PROPELLION SP 215 (3)	SERVICING PROCEDURES FUNCTIONAL CHECKS AND TESTS HUNTER ALL MARKS	AP101B-1300-5A3B Sect 2 Chap 4	SERVICING RECORD		RAF Form 2988B
<u>ENGINE STARTER SYSTEM - COMBINED FUEL PRIMING AND DRAINAGE CHECK</u>			Aircraft Ser No: Date:		
SAFETY AND SERVICING NOTES ARE TO BE COMPLIED WITH THROUGHOUT THE WORK DETAILED ON THIS CARD			TRADESMAN	Brief Details of Suspected Defect and SNOW When Applicable	SUPERVISOR
			MAN HRS 1	INITS & TDM 2	MAN HRS 4
<p>BLOCK 1</p> <p>PROPELLION</p> <p>3. Fuel Priming</p> <p>3.1 Engine master switch. Set to 'ON'.</p> <p>3.2 Starter button. Press and release.</p> <p>3.3 Starter exhaust.</p> <p>(i) Ensure air flows for 2 to 3 secs.</p> <p>(ii) Look for fuel drainage.</p> <p>(iii) Ensure that any fuel drainage is accompanied by a brief flash of the test lamp.</p> <p>3.4 Starter control box motor. Ensure stops approximately 18 seconds after operation of starter button.</p> <p>3.5 System. Repeat operations detailed in Sub-items 3.2 and 3.4 at one minute intervals until fuel flows from starter exhaust. NB: If more than four runs are required, the nozzle plate drain hole is to be examined for obstruction.</p>					
<p>BLOCK 2</p> <p>PROPELLION</p> <p>Item 4 is to be carried out during Fuel Drainage Check.</p> <p>4. Leak Check</p> <p>4.1 System. Look for leaks.</p>					

PROPELLION
SP 215 (4)

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ENGINE STARTER SYSTEM - COMBINED FUEL PRIMING AND DRAINAGE CHECK

SERVICING RECORD

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Date:

SAFETY AND SERVICING NOTES ARE TO BE COMPLIED WITH THROUGHOUT THE WORK
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TRADESMAN	Brief Details of Suspected Defect and SNOW When Applicable			SUPERVISOR	
	MAN HRS 1	INITS & TDM 2	3	MAN HRS 4	INITS & TDM 5

BLOCK 1

PROPELLION

5. Fuel Drainage Check

5.1 Starter button.

Press and release.

5.2 Starter exhaust.

Measure and record quantity of fuel
drainage (80 to 110 cc).

NB: Approximately three quarters of
fuel drainage should occur in first
minute, remainder during next minute.

5.3 Engine master switch.

Set to 'OFF'.

BLOCK 2

PROPELLION

Item 6 is applicable only if more than four runs are required in Item 3
or if fuel drainage pattern is incorrect.

6. Combustion Chamber Check

6.1 Safety disc holder.

Remove.

6.2 Combustion chamber.

Ensure free from accumulated fuel.

6.3 Nozzle plate drain hole.

Ensure unobstructed.

6.4 Safety disc holder.

- (i) Ensure disc intact.
- (ii) Refit. (Torque 384 lbf in.).
- (iii) Lock.

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			Aircraft Ser No: Date:			
<u>ENGINE STARTER SYSTEM - COMBINED FUEL PRIMING AND DRAINAGE CHECK</u>			TRADESMAN	Brief Details of Suspected Defect and SNOW When Applicable 3	SUPERVISOR	
SAFETY AND SERVICING NOTES ARE TO BE COMPLIED WITH THROUGHOUT THE WORK DETAILED ON THIS CARD			MAN HRS 1		INITS & TDM 2	MAN HRS 4
BLOCK 1	ELECTRICAL					
7. <u>Completion</u>						
7.1 External d.c. power supply.	(i) Switch off. (ii) Disconnect.					
7.2 HF ignition unit LT lead.	(i) Remove test lamp. (ii) Reconnect.					
BLOCK 2	PROPELLION					
8. <u>Completion</u>						
8.1 Starter exhaust.	Remove all traces of fuel.					
8.2 Calibrated container.	Recover.					
8.3 IPN fuel tank.	Replenish.					

PROPELLION SP 216 (1) (1 to 5)		SERVICING PROCEDURES FUNCTIONAL CHECKS AND TESTS HUNTER ALL MARKS		AP101B-1300-5A3B Sect 2 Chap 4	SERVICING RECORD		RAF Form 2988B	
<u>ENGINE STARTER SYSTEM - FUEL DRAINAGE CHECK</u> Applicable only to Mk6, 6A and 9 aircraft.					Aircraft Ser No: Date:			
					TRADESMAN	Brief Details of Suspected Defect and SNOW When Applicable	SUPERVISOR	
TRADE Prop. Elect	M/HRS	TRADE	M/HRS	ASSOCIATED PROCEDURE CARDS	MAN HRS 1	INITS & TDM 2	MAN HRS 4	INITS & TDM 5
<u>Special Tools and Equipment:</u> Calibrated Container.								
NB 1 At least one hour is to elapse after a 'live' start before this check is carried out. NB 2 This Procedure is applicable whenever any part of the starter electrical system has been disturbed and is to be carried out BEFORE ANY ATTEMPT IS MADE TO START THE ENGINE. NB 3 The quantity of fuel from all the drainage checks is to be recorded in F700 with other IPN starter installation details. NB 4 Where fuel drainage does not follow the correct pattern, in that drainage stops early, or continues to drip steadily, or it is less than specified minimum, a blocked nozzle plate drain hole is indicated. THIS IS A SERIOUS HAZARD and a start is not to be attempted until drain hole has been cleared. NB 5 If the fuel pump/air blower motor unit continues to run on after the air cycle is complete; an excessive amount of fuel will be discharged into the combustion chamber and may cause combustion products to be dislodged and block the nozzle plate holes. Should this situation arise, the nozzle plate must be examined and cleared as detailed in Item 5. NB 6 Following a successful combustion cycle where more than two fuel drainage checks are required during servicing, the combustion chamber must be examined for fuel content, as detailed in Item 5, as the last operation just prior to an attempt to start.								

PROPELLION
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ENGINE STARTER SYSTEM - FUEL DRAINAGE CHECK

SAFETY AND SERVICING NOTES ARE TO BE COMPLIED WITH THROUGHOUT THE WORK
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NB 6 Cont.

This limit permits three subsequent attempts to start by the pilot.

NB 7 Not more than five starter operations, comprising fuel drainage checks and unsuccessful attempts to start (where combustion does not occur) may be made between successful combustion cycles (or starts). Where more than 5 Starter operations are required during servicing, the combustion chamber must be examined for any blockage of drain hole and nozzles and cleared as detailed in Item 5.

NB 8 An unsuccessful attempt to start, where combustion does not occur, has the same effect on the IPN system, and passes the same amount of fuel, as a simulated start, ie a priming run or a fuel drainage check.

Aircraft Ser No:
Date:

TRADESMAN	Brief Details of Suspected Defect and SNOW When Applicable		SUPERVISOR	
	MAN HRS	INITS & TDM	MAN HRS	INITS & TDM
1	2	3	4	5

BLOCK 1 PROPULSION

1. Preparation

1.1 Engine master switch. } Ensure set to 'OFF'.
1.2 Ignition switch. }

1.3 IPN fuel tank. Replenish.

1.4 Calibrated container. Position under starter exhaust outlet.

PROPELLER SP 216 (4)		SERVICING PROCEDURES FUNCTIONAL CHECKS AND TESTS HUNTER ALL MARKS	AP101B-1300-5A3B Sect 2 Chap 4	SERVICING RECORD		RAF Form 29888		
				Aircraft Ser No: Date:				
<u>ENGINE STARTER SYSTEM - FUEL DRAINAGE CHECK</u>				TRADESMAN	Brief Details of Suspected Defect and SNOW When Applicable		SUPERVISOR	
				MAN HRS 1	INITS & TDM 2	3	MAN HRS 4	INITS & TDM 5
SAFETY AND SERVICING NOTES ARE TO BE COMPLIED WITH THROUGHOUT THE WORK DETAILED ON THIS CARD								
BLOCK 1		PROPELLER						
3. <u>Fuel Drainage Check</u> cont.								
3.3 Starter exhaust.		<ul style="list-style-type: none"> (i) Ensure air flows for 2 to 3 secs. (ii) Ensure that any fuel drainage is accompanied by a brief flash of the test lamp. (iii) Measure and record the quantity of fuel drainage which should be 80 to 110 cc. NB: Approximately three quarters of the fuel drainage should occur in the first half minute with the remainder other than a few drops, during the next minute. 						
3.4 Starter control box motor.		Ensure stops approximately 18 seconds after operation of starter button.						
3.5 Engine master switch.		Set to 'OFF'.						
BLOCK 2		PROPELLER						
		Item 4 is to be carried out during Fuel Drainage Check.						
4. <u>Leak Check</u>								
4.1 System.		Look for leaks.						

PROPELLION SP217 (1) (1 to 2)		SERVICING PROCEDURES FUNCTIONAL CHECKS AND TESTS HUNTER ALL MARKS		AP101B-1300-5A3B Sect 2 Chap 4	SERVICING RECORD		RAF Form 29888	
					Aircraft Ser No: Date:			
					TRADESMAN	Brief Details of Suspected Defect and SNOW When Applicable	SUPERVISOR	
TRADE Prop.	M/HRS	TRADE Prop.	M/HRS	ASSOCIATED PROCEDURE CARDS	MAN HRS 1	INITS & TDM 2	MAN HRS 4	INITS & TDM 5
<u>STARTER FUEL TANK FILLER DRAIN PIPE LEAK CHECK. Mk 6, 6A and 9 A/C only.</u>								
SAFETY AND SERVICING NOTES ARE TO BE COMPLIED WITH THROUGHOUT THE WORK DETAILED ON THIS CARD								
<u>Special Tools and Equipment:</u> Calibrated container - 14B/3498 (2 off).								
BLOCK 1		ENGINES						
1. <u>Preparation</u>								
1.1 Starter fuel tank filler access panel.		Remove.						
1.2 Filler drain pipe.		Ensure unobstructed.						
BLOCK 2		ENGINES						
2. <u>Check</u>								
2.1 Filler drain pipe.		(i) Using calibrated container, pour 300 Cm ³ of warm water into drain inlet. (ii) Using second calibrated container, collect and note quantity of water issuing from drain outlet. NB During third check in operation (iii), if input exceeds output by more than 10 Cm ³ , leak is to be located and rectified.						

Continued

PROPELLION
SP217 (2)

SERVICING PROCEDURES
FUNCTIONAL CHECKS AND TESTS
HUNTER ALL MARKS

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SERVICING RECORD

RAF Form 2988B

Aircraft Ser No:
Date:

STARTER FUEL TANK FILLER DRAIN PIPE LEAK CHECK.

SAFETY AND SERVICING NOTES ARE TO BE COMPLIED WITH THROUGHOUT THE WORK
DETAILED ON THIS CARD

BLOCK 1

ENGINES

2. Check cont.

2.1

(iii) Repeat operations (i) and (ii)
twice.

TRADESMAN	Brief Details of Suspected Defect and SNOW When Applicable		SUPERVISOR	
	MAN HRS	INITS & TDM 1 2	MAN HRS	INITS & TDM 4 5

BLOCK 2

ENGINES

3. Completion

3.1 Starter fuel tank filler recess. Dry.

3.2 Starter fuel tank filler access panel. Refit.

PROPELLION SP 218 (1) (1 to 5)		SERVICING PROCEDURES FUNCTIONAL CHECKS AND TESTS HUNTER ALL MARKS		AP101B-1300-5A3B Sect 2 Chap 4	SERVICING RECORD		RAF Form 2988B			
		Amended to include Mk 9 content.			Aircraft Ser No: Date:					
<u>FUEL FLOW TEST</u>					TRADESMAN		Brief Details of Suspected Defect and SNOW When Applicable		SUPERVISOR	
TRADE Prop.	M/HRS	TRADE Prop.	M/HRS	ASSOCIATED PROCEDURE CARDS	MAN HRS	INITS & TDM	3		MAN HRS	INITS & TDM
					1	2			4	5
<u>SAFETY AND SERVICING NOTES ARE TO BE COMPLIED WITH THROUGHOUT THE WORK DETAILED ON THIS CARD</u>										
<p><u>Special Tools and Equipment:</u></p> <p>Locally Manufactured Hose Assembly. Locally Manufactured Calibrated Fuel Container (Minimum Capacity 10 Gallons).</p>										
<p>BLOCK 1 PROPELLION</p> <p>1. <u>Preparation</u></p> <p>1.1 Front fuselage fuel tanks. Ensure a minimum of 650 lbs of fuel in each.</p> <p>1.2 Battery master switch. Set to 'OFF'.</p> <p>1.3 LP fuel cock. Set to 'OFF'.</p> <p>1.4 Engine master switch. Set to 'OFF'.</p>										
<p>BLOCK 2 PROPELLION</p> <p>This Block is applicable only to Mk6, 6A and 9 aircraft.</p> <p>2. <u>Preparation</u></p> <p>2.1 Fuel delivery pipe. (Pt No C201525/29). (i) Disconnect at flexible couplings. (ii) Remove. (iii) Fit locally manufactured pipe assembly to fuel pipe assembly (Pt No C201525/28) at frame 32. (iv) Position calibrated container.</p>										

PROPELLION SP 218 (2)	SERVICING PROCEDURES FUNCTIONAL CHECKS AND TESTS HUNTER ALL MARKS	AP101B-1300-5A3B Sect 2 Chap 4	SERVICING RECORD		RAF Form 2988B
<u>FUEL FLOW TEST</u>		Aircraft Ser No: Date:			
SAFETY AND SERVICING NOTES ARE TO BE COMPLIED WITH THROUGHOUT THE WORK DETAILED ON THIS CARD		TRADESMAN		Brief Details of Suspected Defect and SNOW When Applicable	
BLOCK 1		PROPELLION	MAN HRS 1	INITS & TDM 2	MAN HRS 3
		This Block is applicable only to Mk7, 7A and 8B aircraft.			INITS & TDM 4
3. <u>Preparation</u>					INITS & TDM 5
3.1 Fuel delivery pipe. (Pt No C18805/10).		(i) Disconnect at flexible coupling. (ii) Remove. (iii) Fit locally manufactured pipe assembly to fuel pipe assembly (Pt No A212114). (iv) Position locally manufactured calibrated container.			
BLOCK 2		PROPELLION			
		This Block is applicable only to Mk6, 6A and 9 aircraft.			
4. <u>Test</u>					
4.1 Battery master switch.		Set to 'ON'.			
4.2 Engine master switch.		Set to 'ON'.			
4.3 Port fuel pump.		Set to 'ON'.			
		Note: Ensure locally manufactured hose assembly and calibrated container are in position.			
4.4 LP cock.		(i) Open for 5 seconds. (ii) Close. (iii) Check that the minimum quantity of fuel discharged into the calibrated container is 4.0625 gal.			

PROPULSION
SP 218 (3)

SERVICING PROCEDURES
FUNCTIONAL CHECKS AND TESTS
HUNTER ALL MARKS

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FUEL FLOW TEST

SERVICING RECORD

Aircraft Ser No:

Date:

SAFETY AND SERVICING NOTES ARE TO BE COMPLIED WITH THROUGHOUT THE WORK
DETAILED ON THIS CARD

BLOCK 1

PROPELLION

4. Test cont.

4.5 Port fuel pump. Set to 'OFF'.

4.6 Starboard fuel pump. Set to 'ON'.

4.7 LP cock.
(i) Open for 5 seconds.
(ii) Close.
(iii) Check that the minimum quantity of fuel discharged into calibrated container is 4.0625 gallons.

4.8 Starboard fuel pump. Set to 'OFF'.

4.9 Engine master switch. Set to 'OFF'.

4.10 Battery master switch. Set to 'OFF'.

BLOCK 2

PROPELLION

This Block is applicable only to Mk7, 7A and 8B aircraft.

5. Test

5.1 Battery master switch. Set to 'ON'.

5.2 Engine master switch. Set to 'ON'.

5.3 Port fuel pump. Set to 'ON'.

NOTE: Ensure that the locally manufactured hose assembly and calibrated container is in position.

TRADESMAN		Brief Details of Suspected Defect and SNOW When Applicable		SUPERVISOR	
MAN HRS	INITS & TDM	1	2	MAN HRS	INITS & TDM

PROPELLION
SP 218 (4)

SERVICING PROCEDURES
FUNCTIONAL CHECKS AND TESTS
HUNTER ALL MARKS

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FUEL FLOW TEST

SAFETY AND SERVICING NOTES ARE TO BE COMPLIED WITH THROUGHOUT THE WORK
DETAILED ON THIS CARD

BLOCK 1

PROPELLION

5. Test cont.

5.4 LP cock.

- (i) Open for 5 seconds.
- (ii) Close.
- (iii) Check that the minimum quantity of fuel discharged into the calibrated container is 3.125 gallons.

5.5 Port fuel pump.

Set to 'OFF'.

5.6 Starboard fuel pump.

Set to 'ON'.

5.7 LP cock.

- (i) Open for 5 seconds.
- (ii) Close.
- (iii) Check that the minimum quantity of fuel discharged into the calibrated container is 3.125 gallons.

5.8 Starboard fuel pump.

Set to 'OFF'.

5.9 Engine master switch.

Set to 'OFF'.

5.10 Battery master switch.

Set to 'OFF'.

SERVICING RECORD

Aircraft Ser No:

Date:

TRADESMAN	Brief Details of Suspected Defect and SNOW When Applicable		SUPERVISOR	
	MAN HRS	INITS & TDM	MAN HRS	INITS & TDM
1	2	3	4	5

PROPELLION
SP 218 (5)

SERVICING PROCEDURES
FUNCTIONAL CHECKS AND TESTS
HUNTER ALL MARKS

AP101B-1300-5A3B
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FUEL FLOW TEST

SERVICING RECORD

Aircraft Ser No:

Date:

TRADESMAN	Brief Details of Suspected Defect and SNOW When Applicable		SUPERVISOR	
	MAN HRS 1	INITS & TDM 2	MAN HRS 4	INITS & TDM 5

SAFETY AND SERVICING NOTES ARE TO BE COMPLIED WITH THROUGHOUT THE WORK
DETAILED ON THIS CARD

BLOCK 1

PROPELLION

This Block is applicable only to Mk6, 6A and 9 aircraft.

6. Completion

6.1 Locally manufactured hose Remove.

6.2 Fuel delivery pipe. Refit.
(Pt No 201525/29).

BLOCK 2

PROPELLION

This Block is applicable only to Mk7, 7A and 8B aircraft.

7. Completion

7.1 Locally manufactured hose Remove.

7.2 Fuel delivery pipe. Refit.
(Pt No 18805/10).

BLOCK 3

PROPELLION

8. Completion

8.1 ECU fuel system. Bleed.

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