

PROPULSION MP 105(1) (1 to 10)	MAINTENANCE PROCEDURES COMPONENT REPLACEMENTS CANBERRA PR9	AP101B-0409A-5A3A 2nd Edition Sect 1 Chap 4	Maintenance Record  Aircraft or Equipment Serial No: _____		MOD Form 707MS (Revised Jan 01)  Date: _____		
ECU AVON 20601 - REMOVAL							
INFORMATION IN THE TOPIC 5A2 IS TO BE CONSULTED THROUGHOUT THE WORK DETAILED ON THIS CARD			Tradesman		Brief Details of suspected fault(s) and SNOW(s)	Supervisor	
Associated Procedures			Code	Man Hrs		Certification and TDM	Man Hrs
<u>Special Tools and Equipment:</u> Wing Bridge Piece, 26FZ/0095522. Avon Engine Universal Sling Mk2, 4G/4232188.							
<b>WARNING</b>  AVTUR IS A HAZARDOUS SUBSTANCE.  OIL OX-38 IS A HAZARDOUS SUBSTANCE.							
BLOCK 1	ELECTRICAL						
1. <u>Preparation</u>							
1.1	Battery isolation switch.	Ensure set to 'OFF'.					
1.2	External power supply.	Ensure disconnected.					
BLOCK 2	AIRFRAME						
2. <u>Preparation</u>							
2.1	Undercarriage cowling flap (a) Actuating link.            ) Disconnect. (b) Cable.                        )						
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PROPULSION  
MP 105(2)

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BLOCK 1	PROPULSION	Code	Tradesman		Brief Details of suspected fault(s) and SNOW(s)	Supervisor	
			Man Hrs	Certification and TDM		Man Hrs	Certification and TDM
3.	<u>Preparation</u>						
3.1	Service panel (No.43 lower). )						
3.2	Bottom rear cowl (No.62 lower). )						
3.3	Top rear cowl (No.45 upper). ) Remove.						
3.4	Nose cowl (No.42 lower). )						
3.5	Jet pipe fairing (No.12 lower). )						

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Continued

PROPULSION MP 105(3)	MAINTENANCE PROCEDURES COMPONENT REPLACEMENTS CANBERRA PR9	AP101B-0409A-5A3A 2nd Edition Sect 1 Chap 4	Maintenance Record  Aircraft or Equipment Serial No: _____	MOD Form 707MS (Revised Jan 01)  Date: _____
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BLOCK 1 ELECTRICAL	Code	Tradesman		Brief Details of suspected fault(s) and SNOW(s)	Supervisor	
		Man Hrs	Certification and TDM		Man Hrs	Certification and TDM
<p>4. <u>Preparation</u></p> <p><b>WARNING</b></p> <p><b>THE DISCHARGE FROM THE HIGH ENERGY IGNITION SYSTEM CAN BE FATAL. BEFORE COMMENCING ANY MAINTENANCE A MINIMUM PERIOD OF 1 MINUTE MUST ELAPSE AFTER DISCONNECTION OF LT LEADS BEFORE PROCEEDING.</b></p> <p>4.1 HE ignition unit LT lead            )       (2 off).                                )</p> <p>4.2 Starter high frequency            )       ignition LT lead.                    )</p> <p>4.3 Plug and socket at engine        ) Disconnect.       bulkhead (3 off).                    )</p> <p>4.4 Overspeed switch cable.            )</p> <p>4.5 Firewire (Inboard and            )       outboard connections).            )</p> <p>4.6 HT lead (2 off).                    )</p> <p>      Sub-item 4.7 is applicable only to port ECU.</p> <p>4.7 Fuse Nos.59, 61 and 188.            Remove.</p> <p>      Sub-item 4.8 is applicable only to starboard ECU.</p> <p>4.8 Fuse Nos.60, 62 and 203.            Remove.</p>						

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BLOCK 1	PROPULSION	Code	Man Hrs		Certification and TDM	Man Hrs
Item 5 is applicable only to port ECU.						
5.	<u>Preparation</u>					
5.1	Top cowling rail. Remove.					
5.2	Cabin pressurizing pipe. )					
5.3	Generator induced cooling pipe. ) Disconnect.					
5.4	Wheelcase breather pipe. Disconnect rubber connections nearest outboard engine rib.					
BLOCK 2	PROPULSION					
Item 6 is applicable only to starboard ECU.						
6.	<u>Preparation</u>					
6.1	Top cowling rail. Remove complete with cabin pressurizing pipe and generator cooling hot air pipe.					
6.2	Wheelcase breather pipe. (i) Disconnect two rubber connections between ECU and engine outboard rib. (ii) Remove section between breather outlet adapter pipe and engine outboard rib.					
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BLOCK 1	PROPULSION	Code	Man Hrs	Certification and TDM	suspected fault(s) and SNOW(s)	Man Hrs	Certification and TDM
7.	<u>Preparation</u>						
7.1	Fuel heater hot air pipe.	(i) Disconnect. (ii) Remove.					
7.2	Fireproof bulkhead side plates.	Remove.					
7.3	Wing tip tank and recuperator pressurizing air pipe.	Disconnect.					
7.4	Accessory gearbox drive shaft.	(i) Disconnect. (ii) Remove.					
<b>WARNING</b>							
<b>AVPIN IS A HAZARDOUS SUBSTANCE.</b>							
7.5	IPN tank.	Drain.					
7.6	Main fuel feed pipe.	) Disconnect.					
7.7	Recuperator fuel feed pipe.	)					
Sub-item 7.8 is applicable only to starboard ECU.							
7.8	Engine fuel distribution pipe.	Remove.					
7.9	IPN starter fuel pipe.	) (i) Disconnect.					
7.10	IPN starter air pipe.	) (ii) Remove.					
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BLOCK 1	PROPULSION	Code	Man Hrs	Certification and TDM	suspected fault(s) and SNOW(s)	Man Hrs	Certification and TDM
7.	Preparation (Contd)						
7.11	Throttle and HP cock control rod. Disconnect.						
7.12	Transition piece. )						
7.13	Front joint heat shield. ) Remove.						
7.14	Jet pipe joint heat shield. )						
7.15	Keep plate (2 off). )						
<b>CAUTION</b>							
<b>EQUIPMENT DAMAGE. During Sub-item 7.16 care is to be taken not to strain or damage thermocouple cables.</b>							
7.16	Jet pipe. Move rearward as far as possible.						
7.17	ECU cooling air outlet ducts. )						
7.18	Fuel cooled oil cooler overboard drain. ) Remove.						
7.19	Combustion chamber drain banjo. )						
7.20	Fuel control unit drain. Disconnect at rear firewall adapter.						
E0393(187A)		Continued					

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BLOCK 1	PROPULSION SNCO	Code	Man Hrs	Certification and TDM	suspected fault(s) and SNOW(s)	Man Hrs	Certification and TDM
8.	<u>Removal</u>						
8.1	Engine sling.	(i) Fit (Fig 1). (ii) Take weight of ECU.					
8.2	Rear trunnion mounting cap (2 off).	Remove.					
8.3	Front support strut (2 off).	Disconnect.					
8.4	ECU.	(i) Lift clear of rear mounting studs. (ii) Lift forward and upward. (iii) Ensure inner cone does not foul transition piece.					
8.5	Trunnion mounting spherical bearing (2 off).	Remove.					
8.6	ECU.	Fit to transportation stand.					
8.7	Wing bridge piece.	Fit to engine compartment mounting.					

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BLOCK 1	PROPULSION	Code	Man Hrs	Certification and TDM	suspected fault(s) and SNOW(s)	Man Hrs	Certification and TDM
9.	<u>Completion</u>  Sub-item 9.1 is applicable only to starboard ECU.						
9.1	Engine fuel distribution pipe. Refit.						
9.2	Air intake lip de-icing pipe. Remove.  Sub-items 9.3 and 9.4 are applicable only if port ECU is being replaced.						
9.3	Breather pipe. )						
9.4	Breather pipe support brackets. ) Remove.						
9.5	Sub-item 9.5 is applicable only if ECU is being replaced. Starter. Remove (MP 109).						
BLOCK 2	AIRFRAME						
10.	<u>Examination</u>						
10.1	Engine forward mounting bracket (2 off) (1600007). ) Examine.	Tech					
10.2	Engine rear mounting bracket (2 off) (1600020). )						
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BLOCK 1	PROPULSION	Code	Man Hrs	Certification and TDM	suspected fault(s) and SNOW(s)	Man Hrs	Certification and TDM
11.	<u>Examination</u>						
11.1	Jet pipe (4000051).  Examine as far as possible.						
11.2	Transition piece. )						
11.3	Engine mounting (4 off) ) Examine. (4000030). )						
BLOCK 2	ELECTRICAL						
12.	<u>Examination</u>						
12.1	ECU compartment electrical cables.  (i) Examine. (ii) Look for chafing. (iii) Look for signs of overheating in fire zones.						

PROPULSION  
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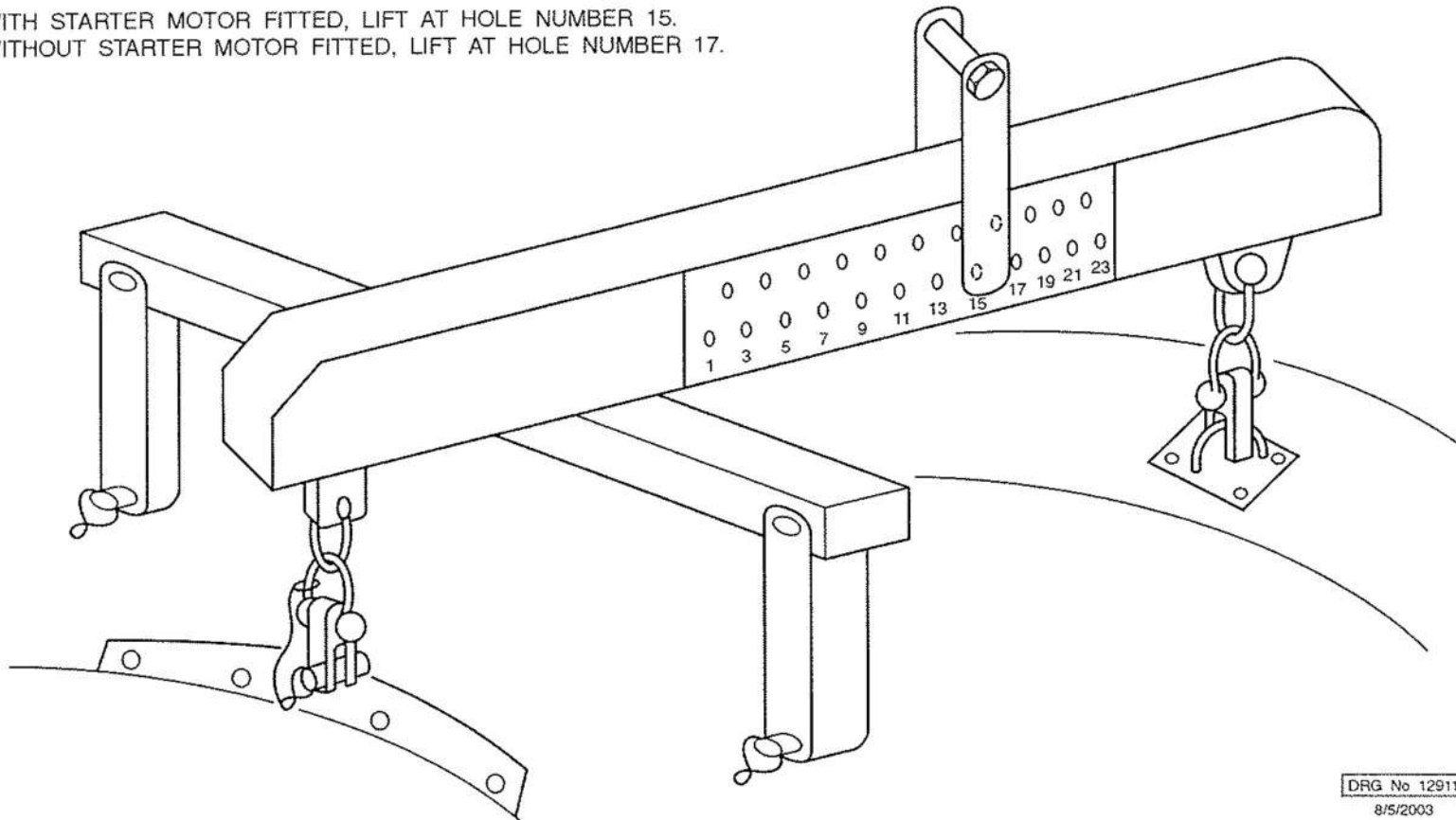
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INFORMATION IN THE TOPIC 5A2 IS TO BE CONSULTED THROUGHOUT THE WORK DETAILED ON THIS CARD

1. WITH STARTER MOTOR FITTED, LIFT AT HOLE NUMBER 15.
2. WITHOUT STARTER MOTOR FITTED, LIFT AT HOLE NUMBER 17.



DRG No 12911  
8/5/2003

Fig 1 Engine Lifting Beam Balance Points

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