

Chapter 4 PROPULSION
Sheet 1
AL 5

MASTER SERVICING LIST
CANBERRA
2,3,4,6,7,15,17,18,19 & 22

AP101B-0400-5A1
Section 1
(2nd Ed)

Sched Ident No	Item	Operation	Frequency	Marks Applicable											
					B/F	T/R	A/F	P	M	MJ		Crit	Str Int		
<u>MAINPLANES - 06</u>															
040601	<u>Port and Starboard Mainplanes</u> All engine cowlings and panels.	(i) Look for damage particularly in vicinity of bleed valve ducting, signs of leaks and ensure flush fitting.	B/F,T/R, A/F	All	X	X	X								
		(ii) Ensure air intake seal secure, does not protrude from recess, and no deterioration from oil contamination. Examine. (Removed).													250
040602	Cowling frames.	Examine.	250	All						X	X				
040603	Drain bowl for accessory gearbox and hydraulic pump.	Look for signs of oil leaks.	T/R,A/F	All		X	X								
		Drain.	125	All				X	X	X					
040604	Jet pipe rear fairing.	Look for damage.	B/F,T/R, A/F	All	X	X	X								
040605	Jet pipe rear fairing drain holes.	Ensure clear.	T/R,A/F	All		X	X								
040606	Cooling air outlet exhaust ducts.	Look for signs of excessive oil leaks.	T/R,A/F	All		X	X								
040607	Starter exhaust ducts.	Look for obvious damage.	A/F	All			X								
040608	Front cowling extractor duct stiffeners.	Examine. (Introduced by SI/Canberra 26A).	250	6,7,15						X	X				
SMS/77/201/18												Continued overleaf			

Sched Ident No	Item	Operation	Frequency	Marks Applicable	Servicing									
					B/F	T/R	A/F	P	M	MJ		Crit	Str Int	
040609	Engine front cowl anti-icing ducting.	Examine. (Introduced by SI/Canberra/172).	250	6,7,15,22						X	X			Y
	<u>Port and Starboard Engine Compartment</u>													
040610	Rear mounting bracket spherical groove. (Pre Mod 5045).	Examine. (Introduced by SI/Canberra/40B).	Every engine change	2,3,4,6,7,15,17,18,19	Out of Phase (SP22)									
040611	Forward engine mounting brackets.	Examine.	250	All						X	X			Y
		Lubricate.	250	All						X	X			Y
<u>BASIC ENGINES - 22</u>														
042201	<u>Port and Starboard Engines</u> Engine.	See CRL.		All										
		Look for leaks.	125	All				X	X	X				
		Ground check.	250	All					X	X				
		Acceleration check. (Aircraft regularly engaged on roller landings).	28 Days	All	Out of Phase (SP301)									
		Acceleration check.	3 Months	All	Out of Phase (SP301)									
		Set acceleration time to fast limit.	Prior to departure to warmer temperature zone	All	Out of Phase (SP301)									
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					B/F	T/R	A/F	P	M	MJ			
BASIC ENGINES - 22 (Contd)													
042201 (Contd)	Port and Starboard Engines												
	Engine.	Set acceleration time to slow limit.	Prior to departure to colder temperature zone	All									
			Examine. (Introduced by SI/Avon/52). (Applicable only to ECUs Post Mod 5315 and, 5430 but Pre Mod 5351 and 5460).	Initially 1200 Engine hours then at 30 engine hour intervals	6,7,15,22								
		Turbo blast cleaning. (Avon Mks 1 and 102).	Between 450 to 550 Engine hours life.	2, 3, 4, 17, 18, 19									
042202	Air intake extension.	Examine and particularly for cracks.	125	6,7,15,22				X	X	X			
042203	12th Stage air vents.	Examine.	250	6,7,15,22					X	X			
042204	Air bleed pipelines.	Examine.	250	6,7,15,22					X	X			
SMS/78/242/31					Continued overleaf								

Sched Ident No	Item	Operation	Frequency	Marks Applicable	Servicing							Crit	Str Int
					B/F	T/R	A/F	P	M	M J			
042205	Air bleed valve ducts.	Examine.	250	6, 7, 15, 22					X	X			
			125	2, 3, 4, 17, 18, 19				X	X	X			
042206	Cabin pressurization hot air flexible pipes. (Pt No. EB7-75-109).	Examine and particularly for discoloration and signs of leaks.	250	6, 7, 15, 22					X	X			
042207	LP nozzle guide vane clamping ring nuts. (Post Mod 5320, Pre Mod 5415).	Ensure tight. (Introduced by SI/Avon/39).	425 Engine hours	6, 7, 15, 22	Out of Phase (SP731)								
042208	LP turbine blades.	Examine and particularly for evidence of impact damage due to flame tube break up. (Applicable to Pre Mod 5430 engines only).	Initially at 1100 engine hours and each subsequent 30 engine hours interval to engine recondition life	6, 7, 15, 22	Out of Phase								
			Examine.	250	All					X	X		
			Look for obvious damage without entering jet pipe.	A/F	All			X					
042209	LP nozzle guide vanes.	Examine as far as possible.	250	All					X	X			
042210	Exhaust unit.	Examine.	250	All					X	X			
			Look for obvious damage.	A/F	All			X					
042211	Air intake guide vanes.	Look for obvious damage.	T/R, A/F	All		X	X						
SMS/78/242/31A					Continued								

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<u>BASIC ENGINES - 22 (Contd)</u>																
042212	<u>Port and Starboard Engines</u> Compressor.	Examine as far as possible.	250	All								X	X			
		Ensure free to rotate one revolution.	B/F,T/R, A/F	All	X	X	X									
		Look for obvious damage.	B/F,T/R, A/F	All	X	X	X									
		Spray with PX-24. (WD-40).	3 to 5 days, if aircraft has flown since last applica- tion After first flight when aircraft has not flown for more than 5 days Before any prolonged servicing	All	Out of Phase (SP/33)											
042213	Front bearing housing and web.	Examine and particularly for corrosion.	125	All				X	X	X						
SMS/76/15/34		Continued overleaf														

Sched Ident No	Item	Operation	Frequency	Marks Applicable	Servicing							Crit	Str Int
					B/F	T/R	A/F	P	M	MJ			
042214	Front bearing housing drain holes.	Ensure clear.	250	2,3,4,17,18,19					X	X			
042215	Fireproof bulkhead and sealing ring.	Examine.	250	All					X	X			
042216	Air intake guide vane ram and actuating mechanism.	Examine.	250	All					X	X			
		Lubricate.	250	All					X	X			
042217	Swirl vane bushes.	Apply PX-24. (WD-40).	250	2,3,4,17,18,19					X	X			
042218	Air bleed valves.	Examine.	250	2,3,4,17,18,19					X	X			
042219	Air bleed valve control unit and mechanism.	Examine.	250	All					X	X			
		Lubricate.	250	2,3,4,17,18,19					X	X			
042220	Combustion chambers and interconnectors.	Examine.	250	All					X	X			
042221	Combined fuel drains.	Ensure protruding.	T/R,A/F	All		X	X						
			250	All					X	X			
		Ensure fuel ejected on engine run down.	T/R,A/F	All		X	X						
			250	All					X	X			
		Examine.	250	All					X	X			
042222	Internal wheelcase breather pipe.	Examine.	250	2,3,4,17,18,19					X	X			

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					B/F	T/R	A/F	P	M	MJ		Crit	Str Int	
<u>JET PIPES - 23</u>														
042301	<u>Port and Starboard Jet Pipes</u> Jet pipe.	Examine.	250	All						X	X			
		Check movement.	125	All				X	X	X				
		Ensure concentric.	250	All					X	X				
		Look for obvious damage.	T/R,A/F	All		X	X							
042302	Transition section.	Examine and particularly Alfol lagging for signs of overheating and correct layering at edges.	250	All					X	X				
SMS/77/282/18														
Continued overleaf														

Sched Ident No	Item	Operation	Frequency	Marks Applicable	Servicing								
					B/F	T/R	A/F	P	M	MJ	Crit	Str Int	
042303	Propelling nozzle flange. (Pre Mod Avon 112).	Examine.	50	2,3,4,15,17					X	X			
ENGINE OIL SYSTEM - 24													
042401	<u>Port and Starboard Engines</u> Pressure filter.	Examine. (Removed).	125	2,3,4,17,18,19				X					
			50	All					X	X			
042402	Scavenge filters. (2 off).	Examine. (Removed).	Every engine oil change	2,3,4,17,18,19	Out of Phase								
042403	Suction filter.	Examine. (Removed).	Every engine oil change	2,3,4,17,18,19	Out of Phase								
042404	Sump.	Replenish.	T/R,A/F	All		X	X						
			125	All				X	X	X			
			500 engine hours	2,3,4,17,18,19	Out of Phase								
		500 engine hours	2,3,4,17,18,19	Out of Phase									
		Drain.	500 engine hours	2,3,4,17,18,19	Out of Phase								
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<u>ENGINE OIL SYSTEM - 24 (Contd)</u>														
042405	<u>Port and Starboard Engines</u> Pipelines.	Examine.	250	All						X	X			
042406	Oil breather overboard pipes.	Examine as far as possible.	250	6,7,15,22						X	X			
<u>ENGINE FUEL SYSTEM - 25</u>														
042501	<u>Port and Starboard Engines</u> LP fuel filter.	Sample fuel, if contaminated replace element.	250	All						X	X			
042502	Flexible fuel pipelines.	Examine and particularly for oil contamination.	250	All						X	X			
042503	Fuel pumps.	See CRL		All										
SMS/77/282/19					Continued overleaf									

Sched Ident No	Item	Operation	Frequency	Marks Applicable	Servicing							Crit	Str Int
					B/F	T/R	A/F	P	M	MJ			
<u>ENGINE STARTING AND IGNITION SYSTEM - 26</u>													
	<u>Port and Starboard Engines</u>												
042601	Starter. (Triple breech).	See CRL.		6,7,15,22									
042602	Starter. (Single breech).	See CRL.		2,3,4,17,18,19									
		Examine.	50 shots	2,3,4,17,18,19	Out of Phase (SP734)								
042603	Starter breeches.	Unload.	A/F	All			X						
		Replenish.	B/F,T/R	All	X	X							
		Examine.	250	All				X	X				
042604	Starter cap threads.	Lubricate lightly.	125	6,7,15,22				X	X	X			
042605	Starter cap assembly.	Examine.	A/F	All			X						
042606	Starter exhaust pipe assemblies.	Examine. (Removed).	250	All					X	X			
042607	Starter gas valve.	Ensure freedom of movement. (Introduced by SI/Avon/3F).	B/F,T/R, A/F	2,3,4,17,18,19	X	X	X						
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					B/F	T/R	A/F	P	M	MJ		Crit	Str Int		
<u>ENGINE STARTING AND IGNITION SYSTEM - 26 (Contd)</u>															
042608	<u>Rear Compartment</u> Starter cartridge stowage.	Replenish as necessary.	B/F, T/R	All	X	X									
<u>ENGINE CONTROL SYSTEM - 27</u>															
042701	<u>General</u> Engine control rods. (Pre Mod 5028).	Examine and particularly for cracking of eye ends. (Introduced by SI/Canberra/1740).	32 Weeks	All	Out of Phase (32 Week Special Check)										
042702	<u>Pilots and Crews Compartment</u> Simmonds Corsey control unit and conduit.	Examine.	250	2,6,15,17,18,19						X	X				
		Lubricate.	1000	2,6,15,17,18,19							X				

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Sched Ident No	Item	Operation	Frequency	Marks Applicable	Servicing								
					B/F	T/R	A/F	P	M	M J	Crit	Str Int	
042703	Simmonds Corsey control end fittings.	Examine.	250	2,6,15,17,18,19					X	X			
042704	Simmonds Corsey control oil tight sleeves.	Examine.	250	2,6,15,17,18,19					X	X			
042705	Push-pull rods.	Examine.	250	3,4					X	X			
042706	Push-pull rod end fittings.	Lubricate.	250	3,4					X	X			
042707	Bellcrank levers.	Examine.	250	3,4					X	X			
		Lubricate.	250	3,4					X	X			
042708	Teleflex sliding end fittings.	Examine.	250	3,4,7,22					X	X			
		Lubricate.	250	3,4,7,22					X	X			
042709	Teleflex conduit and end fittings.	Examine.	250	3,4,7,22					X	X			
		Lubricate.	1000	3,4,7,22						X			
042710	Engine control attachments to structure	Examine.	250	All					X	X			
042742	Throttle and HP cock friction dampers.	Operate.	125	All				X	X	X			
042711	<u>Battery and Port Equipment Compartments</u> <u>Battery Compartment</u>	Examine.	250	2,6,15,17,18,19					X	X			
	Simmonds Corsey control conduits.												

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Sched Ident No	Item	Operation	Frequency	Marks Applicable							Crit	Str Int
					B/F	T/R	A/F	P	M	M J		
ENGINE CONTROL SYSTEM - 27 (Contd)												
	<u>Battery and Port Equipment Compartments Battery Compartment</u>											
042712	Simmonds Corsey control end fittings.	Examine.	250	2,6,15,17,18, 19					X	X		
042713	Simmonds Corsey control oil tight sleeves.	Examine.	250	2,6,15,17,18, 19					X	X		
042714	Push-pull rods.	Examine.	250	All					X	X		
042715	Push-pull rod end fittings.	Lubricate.	250	All					X	X		
042716	Bellcrank levers.	Examine.	250	All					X	X		
		Lubricate.	250	All					X	X		
042717	Teleflex sliding end fittings.	Examine.	250	3,4,7,22					X	X		
		Lubricate.	250	3,4,7,22					X	X		
042718	Teleflex conduit and end fittings.	Examine.	250	3,4,7,22					X	X		
		Lubricate.	1000	3,4,7,22						X		

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Sched dent No	Item	Operation	Frequency	Marks Applicable	Servicing								
					B/F	T/R	A/F	P	M	MJ		Crit	Str Int
042719	Engine control attachments to structure.	Examine.	250	All					X	X			
	<u>No.6 Fuel Tank Compartment</u>												
042720	Push-pull rods.	Examine.	250	3,7,22					X	X			
042721	Push-pull rod end fittings.	Lubricate.	250	3,7,22					X	X			
042722	Bellcrank levers.	Examine.	250	3,7,22					X	X			
		Lubricate.	250	3,7,22					X	X			
042723	Engine control attachments to structure.	Examine.	250	3,7,22					X	X			
	<u>Front Camera Compartment</u>												
042724	Push-pull rods.	Examine.	250	3,7,22					X	X			
042725	Push-pull rod end fittings.	Lubricate.	250	3,7,22					X	X			
042726	Bellcrank levers.	Examine.	250	3,7,22					X	X			
		Lubricate.	250	3,7,22					X	X			
042727	Engine control attachments to structure.	Examine.	250	3,7,22					X	X			
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ENGINE CONTROL SYSTEM - 27													
(Contd)													
<u>Bomb/Flare or Special Radio Compartments</u>													
042728	Push-pull rods.	Examine.	250	All					X	X			
042729	Push-pull rod end fittings.	Lubricate.	250	All					X	X			
042730	Bellcrank levers.	Examine.	250	All					X	X			
		Lubricate.	250	All					X	X			
042731	Engine control attachments to structure.	Examine.	250	All					X	X			
<u>Port and Starboard Mainplanes</u>													
042732	Push-pull rods.	Examine.	250	All					X	X			
042733	Push-pull rod end fittings.	Examine.	250	All					X	X			
		Lubricate.	250	All					X	X			
042734	Bellcrank levers.	Examine.	250	All					X	X			
		Lubricate.	250	All					X	X			
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					B/F	T/R	A/F	P	M	MJ				
<u>ANCILLARY DRIVES - 29</u>														
042901	<u>Port and Starboard Mainplanes</u> Accessory gearbox drive.	Examine. (Disconnected).	250	All						X	X			
		Lubricate.	250	All						X	X			
		See CRL.		All										
042902	Accessory gearbox.	Drain.	500	All						X (2)	X			
		Examine.	500	All						X (2)	X			
		Replenish.	A/F	All			X			X	X			
		See CRL.		All										
042903	Generator two-speed drive. (If fitted).	Drain.	250	2,4,17,19						X	X			
		Examine. (Removed). (Introduced by SI/Canberra/24C).	250	2,4,17,19						X	X			
		Replenish.	A/F	2,4,17,19			X	X		X	X			
		See CRL.		2,4,17,19										

Sched Ident No	Item	Operation	Frequency (Weeks)	Marks Applicable	Servicing							
					B/F	T/R	A/F	P	M	MJ	Crit	Str Int
042904	Hydraulic pump quill drive.	Examine. (Removed) (Introduced by SI/Canberra/24C).	250	All					X	X		
		Lubricate. (Introduced by SI/Canberra/24C).	250	All					X	X		
042905	Generator quill drive.	Examine. (Removed) (Introduced by SI/Canberra/24C).	250	All					X	X		
		Lubricate. (Introduced by SI/Canberra/24C).	250	All					X	X		
AIRCRAFT FUEL AND PRESSURIZATION SYSTEM - 39												
043901	<u>General</u> Fuel system.	Look for leaks. (LP pumps running).	250	All					X	X		
	<u>Port and Starboard Mainplanes</u> Pipelines.	Examine as far as possible.	1000	All						X		
043903	Fuel recuperator.	Replace. (Bay Service).	1000	4,6,7,15,22						X		
		Drain air chamber.	250	4,6,7,15,22					X			
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<u>AIRCRAFT FUEL AND PRESSURIZATION SYSTEM - 39 (Contd)</u>														
043904	<u>Port and Starboard Mainplanes</u> Integral fuel tanks.	Water/Sediment check.	125	6,7,15,22					X	X				
043905	<u>Bomb/Flare or Special Radio Compartment</u> Pipelines.	Examine as far as possible.	1000	All							X			
043906	Auxiliary fuel tank pipelines.	Examine.	250	2,6,15,18,19						X	X			
043907	Blow-off valve.	Examine and particularly for deterioration of rubber washer.	1000	All							X			
0-3908	<u>No.6 Tank Compartment</u> Pipelines and connexions.	Examine particularly for insecurity.	250	3,7,22						X	X			
043909	<u>No.6 Tank</u> Inhibitor cartridges. (2 off).	Replace. (Fatigue).	500	3,7,22						X (2)	X			
043910	<u>Rear Fuselage Compartment</u> Float valve filter.	Examine.	1000	All							X			
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					B/F	T/R	A/F	P	M	M J		
043911	Pipelines.	Examine as far as possible.	1000	All						X		
	<u>Port and Starboard Engine Nacelles</u>											
043912	Purolator filter bracket.	Examine.	250	All					X	X		
043913	Purolator filter element.	Examine. (Removed).	250	All					X	X		
043914	Pipelines. (Post Mod 3850).	Examine. (Introduced by SI/Canberra/126).	250	4					X	X		
043915	Pipelines. (Post Mod 1478).	Examine. (Introduced by SI/Canberra/126).	250	6,15					X	X		
043916	Pipelines. (Post Mod 1480).	Examine. (Introduced by SI/Canberra/126).	250	2,3,19					X	X		
043917	Pipelines. (Post Mod 736).	Examine. (Introduced by SI/Canberra/126).	250	7,22					X	X		
	<u>Port and Starboard Inboard and Outboard Engine Ribs</u>											
043918	L.P. fuel elbows. (Port and Starboard inboard engine ribs).	Look for signs of leaks.	B/F	All	X							
043919	L.P. fuel elbows. (Port and Starboard outboard engine ribs).	Look for signs of leaks.	B/F	6.7.15 and 22	X							
<u>FIRE PROTECTION SYSTEM - 40</u>												
	<u>Fuselage</u>											
044001	Fire extinguisher pipelines and spray nozzles.	Examine.	1000	All						X		
		Blow through with air.	1000	All						X		
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Sched Ident No	Item	Operation	Frequency	Marks Applicable								Crit	Str Int
					B/F	T/R	A/F	P	M	M J			
<u>FIRE PROTECTION SYSTEM - 40</u> (Contd)													
04-002	<u>Port and Starboard Engine Compartments</u>												
	Fire extinguisher pipelines, spray pipes and hoses.	Examine.	1000	All							X		
044003	<u>Forward Position Crew Compartment</u>												
	Hand fire extinguisher.	Replace. (Bay Service).	125	All				X	X	X			
		Ensure stowed correctly.	B/F	All	X								
		Ensure not discharged.	B/F	All	X								
		See CRL.			All								
044004	<u>Rear Position Crew Compartment</u>												
	Hand fire extinguisher. (Post STC Mod CM/O426, Post STC Mod CM/O532 or STC Mod CM/O575).	Replace. (Bay Service).	125	2,3,4,6,7,15, 17,18,19				X	X	X			
		Ensure stowed correctly.	B/F	2,4,6,15,17, 18,19	X								
		Ensure not discharged.	B/F	2,4,6,15,17, 18,19	X								
		See CRL.			2,3,4,6,7,15, 17,18,19								
SMS/76/294/37												Continued overleaf	

Sched Ident No	Item	Operation	Frequency	Marks Applicable	Servicing									
					B/F	T/R	A/F	P	M	M J		Crit	Str Int	
044005	<u>Upper Equipment Compartment</u> Fire extinguisher spray pipes.	Examine.	1000	3							X			
		Blow through with air.	1000	3							X			
044006	<u>Rear Fuselage Compartment</u> Fire extinguisher pipes.	Examine.	1000	All							X			
044007	<u>Port and Starboard Undercarriage Compartment</u> Fire extinguisher pipes.	Examine.	1000	All							X			
<u>TURBO ALTERNATOR AND SUPPLIES - 44</u>														
044401	<u>Port and Starboard Turbine Gearbox Assemblies</u> Motive air pipes. (Engine manifold to turbine flow valve).	Examine.	250	17						X	X			
044402	Tripod mounting frame.	Examine.	250	17						X	X			
SMS/76/494/37A														

Continued

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CANBERRA
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Sched Ident No	Item	Operation	Frequency	Marks Applicable										
					B/F	T/R	A/F	P	M	MJ		Crit	Str	Int
<u>TURBO ALTERNATOR AND SUPPLIES - 44 (Contd)</u>														
044403	<u>Port and Starboard Turbine Gearbox Assemblies</u> Support assembly, (Gearbox to tripod mounting).	Examine.	250	17						X	X			
044404	Support assembly. (Gearbox to hinge bracket).	Examine.	250	17						X	X			
044405	Gearbox sump.	Check oil contents.	B/F,T/R	17	X	X								
		Replenish.	A/F	17			X							
044406	Oil filter. (Sump).	Examine. (Removed).	250	17						X	X			
044407	Oil filter. (Servo unit).	Examine. (Removed).	250	17						X	X			
044408	Hydraulic accumulator.	Replenish with air.	A/F	17			X							
044409	Overspeed trip mechanism.	Test.	125	17				X	X	X				
EO577 (25)														

Continued overleaf

Sched Ident No	Item	Operation	Frequency	Marks Applicable	Servicing							Crit	Str Int
					B/F	T/R	A/F	P	M	MJ			
044410	Overspeed trip mechanism control shaft.	Clean.	250	17					X	X			
		Lubricate. (Mechanism removed).	250	17					X	X			
044411	<u>Port and Starboard Engines</u> Turbine gearbox alternator motive air manifold.	Examine.	250	17					X	X			

EO577 (95A)

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MASTER SERVICING LIST
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Section 1
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Sched Ident No	Item	Operation	Frequency	Marks Applicable										
					B/F	T/R	A/F	P	M	MJ		Crit	Strnt	
<u>TURBO ALTERNATOR AND SUPPLIES - 44 (Contd)</u>														
044403	<u>Port and Starboard Turbine Gearbox Assemblies</u> Support assembly, (Gearbox to tripod mounting).	Examine.	250	17						X	X			
044404	Support assembly. (Gearbox to hinge bracket).	Examine.	250	17						X	X			
044405	Gearbox sump.													
		Replenish.	A/F	17			X							
044406	Oil filter. (Sump).	Examine. (Removed).	250	17						X	X			
044407	Oil filter. (Servo unit).	Examine. (Removed).	250	17						X	X			
044408	Hydraulic accumulator.	Replenish with air.	A/F	17				X						
044409	Overspeed trip mechanism.	Test.	125	17				X	X	X				

Sched Ident No	Item	Operation	Frequency	Marks Applicable	Servicing							
					B/F	T/R	A/F	P	M	MJ	Crit	Str Int
044410	Overspeed trip mechanism control shaft.	Clean.	250	17					X	X		
		Lubricate. (Mechanism removed).	250	17					X	X		
044411	<u>Port and Starboard Engines</u> Turbine gearbox alternator motive air manifold.	Examine.	250	17					X	X		

SMS/77/282/21A

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