Fuel System

CONFIDENTIAL

FUEL SYSTEM

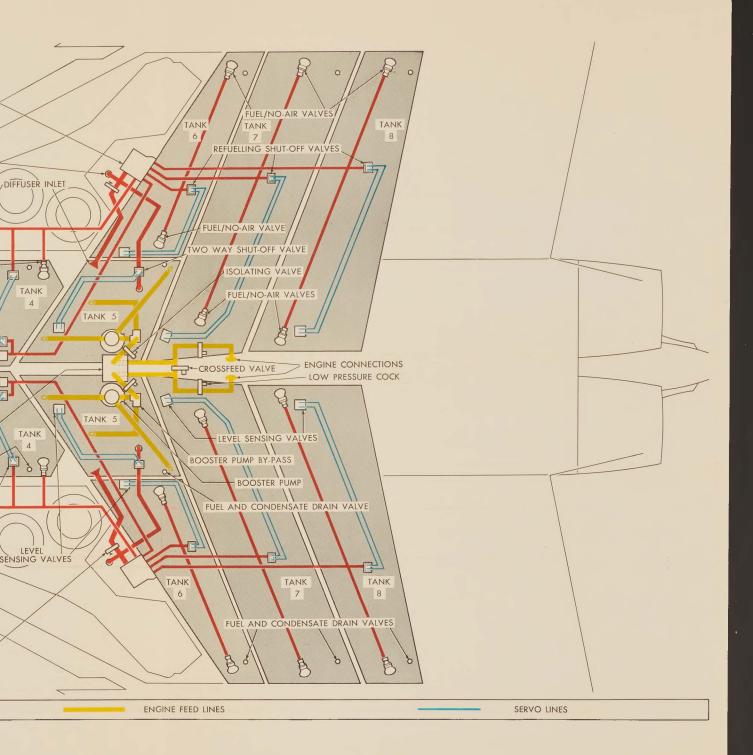
Section 15.

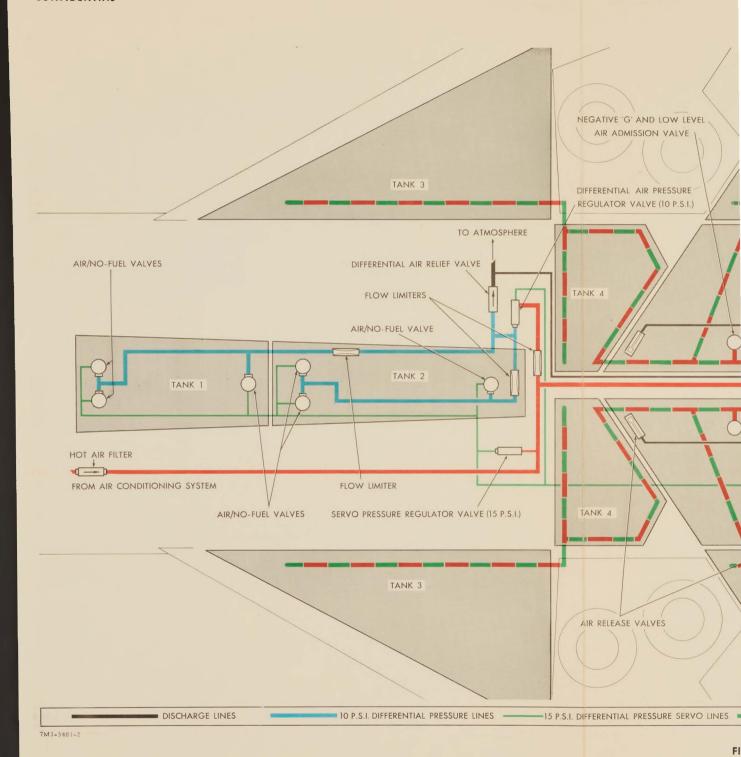
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COMPONENT DATA SHEET FLOW PROPORTIONER UNIT REFUELLING ADAPTOR DIFFUSER INLET TANK 3 FUEL/NO-AIR VALVES LEVEL SENSING VALVES TANK REFUELLING SHUT-OFF AND BY-PASS VALVE FUEL/NO-AIR VALVES FUEL AND CONDENSATE DRAIN VALVES TANK 5 TANK 2 TANK 1 TANK 5 FUEL/NO-AIR VALVES TRANSFER PUMP TANK LEVEL SENSING VALVES FUEL PRESSURE REGULATOR OIL TO FUEL HEAT EXCHANGER FUEL AND CONDENSATE DRAIN VALVES TANK 3 SENSING VALVES REFUELLING SHUT-OFF VALVES MANUALLY OPERATED GATE VALVE ENGINE FEE FUEL SUPPLY LINES 7M1-3402-2

FIG. 1 FUEL SYSTEM-FUEL FLOW SCHEMATIC





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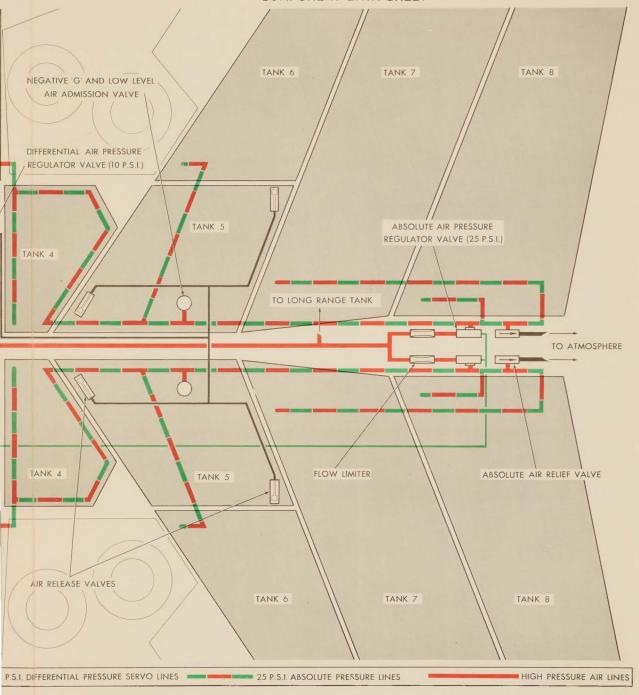


FIG. 2 FUEL SYSTEM-TANK PRESSURIZATION SCHEMATIC

SYSTEM DATA SHEET

SYSTEM	SUB-SYSTEM	AIRCRAFT EFFTY	REF. NO.
FUEL SYSTEM		25201	16

DESCRIPTION

General

- 1. Fuel is contained in 14 tanks, two being installed in tank bays in the centre fuselage and six built integrally with each side of the inner wing. The fuselage tanks are of rubber cell type. The forward fuselage tank is Tank 1 and the aft fuselage tank is Tank 2. The wing tanks at each side are numbered 3, 4, 5, 6, 7 and 8. Each Tank 5 is a collector tank. The fuel passes from each collector tank to its respective engine. Provision is made for fitting a single long range tank below the fuselage.
- 2. The quantity of fuel in each side of the system is registered on two gauges in the front cockpit. The total capacity of internally carried fuel is 2544 gallons (3064 U.S.) 19,433 lbs. The capacity of the long range tank is 500 gallons (602.5 U.S.) 3,900 lbs.

Tank Pressurization

- 3. Fuel is transferred into the collector tanks by air pressure tapped off the air conditioning system, downstream of the air-to-air heat exchanger. The pressure in the fuselage tanks is controlled to 10 psi differential by a differential pressure regulator. The pressure in the wing tanks is controlled to 25 psia by an absolute pressure regulator.
- 4. To prevent over-pressurization of the tanks in case of failure of a pressure regulator, each regulator has a flow limiter fitted at its inlet which limits the airflow to slightly above the normal maximum demand. A relief valve fitted at each regulator outlet relieves the excess pressure.
- 5. The pressure regulators and relief valves are fitted with override solenoids operated by the master refuelling switch on the master refuelling panel. This permits air in the tanks to be displaced by the incoming fuel, during refuelling, and also prevents further air from entering the tanks if a ground air supply is connected.
- 6. A flow limiter is fitted in the supply line to each fuselage tank to limit loss of air through a damaged tank thereby maintaining pressure to the undamaged tank. Flow limiters are not required in the wing tank supply lines, as these lines are sized to restrict air loss in the event of a damaged tank.
- 7. Air/no-fuel valves are fitted at each of the air pressure inlets to each fuselage tank to prevent fuel from entering the pressurization lines.
- 8. A servo supply regulated to 15 psi differential is tapped off the high pressure line to operate the air/no-fuel valves and also supply the servo pressure to operate the pressure regulators which close off the air supply during refuelling.

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- 9. To prevent fuel vaporization, a negative G and low level air admission valve admits air into the tank when the tank pressure falls below ll psia due to a drop in fuel level.
- 10. Two air release valves in each collector tank allow air in excess of 14 psi absolute to be released from the collector tank when transfer resumes after being temporarily suspended. The air release valves automatically suspend air release if the collector tank pressure falls below 13 psi absolute.

Fuel Transfer

- 11. Fuel is transferred from the left hand wing storage tanks and the aft fuselage tank into the left hand collector tank. Fuel is transferred from the right hand wing storage tanks and the forward fuselage tank into the right hand collector tank.
- 12. Tank pressurization forces fuel through fuel/no-air valves in each wing storage tank and each fuselage tank into transfer lines to flow proportioner units. The fuel/no-air valves prevent pressurization air from entering the transfer lines.
- 13. An electrically driven transfer pump and a fuel pressure regulator is fitted in the transfer line from each fuselage tank to raise the fuel pressure from the fuselage tanks to a regulated pressure of 25 psi absolute to match the transfer delivery from the wing storage tanks. In the event of failure of a transfer pump, fuel is allowed to by-pass the pump through a two way shut-off and by-pass valve and the FUEL PROP light on the master warning panel in the pilot's cockpit is actuated on by a pressure differential switch which is fitted in parallel with the pump.

NOTE

As there is only one FUEL PROP light, two PRESS TO TEST buttons are fitted on the master refuelling panel to allow the ground crew to establish which pump has failed.

14. The flow proportioner units meter fuel from each transfer line to the collector tanks in amounts proportionate to the tank capacities. In this way, all tanks empty at the same time, ensuring a minimum C of G shift during consumption of fuel. Each flow proportioner unit incorporates an electric motor-operated by-pass, which operates automatically in the event of jamming or seizure of the vanes. Each by-pass is controlled by a low level switch in its respective collector tank. The low level switches also control the FUEL PROP light and two LOW LEVEL lights on the master warning panel.

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SYSTEM DATA SHEET

SYSTEM	SUB-SYSTEM	AIRCRAFT EFF'TY	REF. NO.
FUEL SYSTEM (Cont'd)		25201	16

15. The flow proportioners have a lock-on feature which keeps the by-pass open once it has been signalled. The lock-on is automatically released when the aircraft power is switched off and the aircraft or ground power is switched on again. A mechanical indicator on each flow proportioner unit indicates the by-pass 'open' and by-pass 'closed' positions.

Engine Feed

- 16. An engine driven booster pump is fitted in each collector tank to boost fuel delivery to the engines. Each booster pump is provided with an automatic priming device to dispel air and vapour from the fuel. By-pass valves are fitted in parallel with each pump to permit fuel to feed directly to the engines by a combination of collector tank pressure, gravity and suction from the engine pumps, should the booster pump fail. The booster pumps increase the delivery pressure to a minimum of 15 psi above collector tank pressure.
- 17. Fuel flow to the engines passes through an oil to fuel heat exchanger and is controlled by five electrically operated valves. Two of these valves are isolating valves, two are low pressure cocks and the remaining valve is a crossfeed valve. The crossfeed valve opens when a crossfeed selection is made and one of the isolating valves shuts off the inoperative side of the system. The low pressure cocks may be closed during ground servicing by two ground servicing switches located on the forward accessories panel in the nose landing gear well.

Refuelling

- 18. The aircraft is pressure refuelled through two refuelling adaptors, located one in each main landing gear well. Access to each refuelling adaptor is through a refuelling access door. The action of opening the access door closes a manually operated gate valve in the transfer line to the collector tank, permitting fuel flow into the collector tank through a separate refuelling line. The access door must be closed after refuelling, to re-open the transfer line to the collector tank. A micro-switch actuated by the door latch brings on the FUEL PROP light on the master warning panel to warn the pilot before take-off if either access door has been left open.
- 19. When the tanks are full, or when the desired level has been reached during partial refuelling, fuel flow is automatically cut off by a refuelling shut-off valve in each wing storage tank, by a two way shut-off valve in each collector tank, and by refuelling shut-off and by-pass valves for the fuselage tanks. A level sensing valve mounted at the top of each tank controls the shut-off valves.
- 20. A master refuelling panel is located on the underside of the duct bay, access to which is through a refuelling access door. This panel incorporates a master refuelling switch and a refuelling selector switch. The master refuelling switch has two positions, ON and OFF AND DEFUEL. An ON selection eliminates tank pressurization and permits venting of the tanks during refuelling. It also brings on the tank signal lights. See para 22. An OFF AND DEFUEL selection overrides all

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refuelling switches and lights. To guard against the master switch being inadvertently left on at the end of the refuelling operation, the switch is provided with a guard which prevents the access door from closing when the switch is on.

- 21. The refuelling selector switch has two positions, PARTIAL and FULL REFUEL. The PARTIAL selection causes the flow proportioner by-pass to be motored closed and fuel is delivered in proportionate amounts to the tanks. The FULL REFUEL selection causes the flow proportioner by-pass to be motored open, allowing the tanks to fill at random rates.
- 22. A refuelling control and signal panel, fitted outboard of the refuelling access door in each main landing gear well, incorporates a REFUEL CONTROL switch which controls the flow into the tanks on the respective sides of the system. It also incorporates a green signal light for each tank which goes out when refuelling is taking place, and comes on when refuelling is terminated. The operation of the level sensing and shut-off valves may be pre-checked immediately after the commencement of refuelling by switching the REFUEL CONTROL switch to its two positions and observing the signal lights.

Defuelling

- 23. The aircraft is defuelled through the refuelling adaptor in each main landing gear well. Defuelling from the wing storage tanks and the fuselage tanks is effected by tank pressurization through the transfer lines assisted by suction from the tender pumps. An external source of air pressure is necessary to pressurize the tanks to achieve this.
- 24. Defuelling from the collector tanks which are not pressurized by air, is by suction through the two way shut-off valves. As the level in the collector tank drops, air is admitted through the negative 'G' and low level air admission valves to take the place of the displaced fuel.
- 25. The refuelling master switch remains in the OFF AND DEFUEL position for defuelling, therefore no selection is necessary. Residual fuel may be drained through residual fuel and condensate drain valves located at the bottom of each tank.

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FUNCTION To contain fuel and fuel system components.	SYSTEM			0011001		DEE NO
AVRO PART NO. 7-1754-5 Dominion Rubber ESTIMATED- 500 hours FUNCTION To contain fuel and fuel system components. LOCATION Centre fuselage above armament bay. ACCESS Gained by removing the dorsal fairing - six latches and the tank access panel - 36 screws.		SUB-SYSTEM		COMPON	IENT	REF. NO.
AVRO PART NO. 7-1754-5	FUEL SYSTEM			Cell - Fu	el No. 1	16-1
7-1754-5 Dominicn Rubber 25201 OVERHAUL LIFE: KNOWN- ESTIMATED- 500 hours FUNCTION To contain fuel and fuel system components. LOCATION Centre fuselage above armament bay. ACCESS MEN X MINUTE Gained by removing the dorsal fairing - six latches and the tank access panel - 36 screws.						
OVERHAUL LIFE: KNOWN- ESTIMATED- 500 hours FUNCTION To contain fuel and fuel system components. LOCATION Centre fuselage above armament bay. ACCESS Gained by removing the dorsal fairing - six latches and the tank access panel - 36 screws.	AVRO PART NO.	MANUFACTURER	MAN'F'R'	S PART NO.	AIRCRAFT E	EFFECTIVIT
To contain fuel and fuel system components. LOCATION Centre fuselage above armament bay. ACCESS Gained by removing the dorsal fairing - six latches and the tank access panel - 36 screws.	7-1754-5	Dominicn Rubber			2520	1
To contain fuel and fuel system components. LOCATION Centre fuselage above armament bay. ACCESS Gained by removing the dorsal fairing - six latches and the tank access panel - 36 screws.						
To contain fuel and fuel system components. LOCATION Centre fuselage above armament bay. MEN X MINUTE Gained by removing the dorsal fairing - six latches and the tank access panel - 36 screws.	OVERHAUL LIFE: KN	OWN-	ESTIN	MATED- 500	hours	
Centre fuselage above armament bay. ACCESS Gained by removing the dorsal fairing - six latches and the tank access panel - 36 screws.	FUNCTION					
Centre fuselage above armament bay. ACCESS Gained by removing the dorsal fairing - six latches and the tank access panel - 36 screws.						
Centre fuselage above armament bay. ACCESS Gained by removing the dorsal fairing - six latches and the tank access panel - 36 screws.		To contain fuel and	fuel syste	em components.		
Centre fuselage above armament bay. ACCESS Gained by removing the dorsal fairing - six latches and the tank access panel - 36 screws.						
Centre fuselage above armament bay. ACCESS Gained by removing the dorsal fairing - six latches and the tank access panel - 36 screws.						
Gained by removing the dorsal fairing - six latches and the tank access panel - 36 screws.	LOCATION					
Gained by removing the dorsal fairing - six latches and the tank access panel - 36 screws.						
Gained by removing the dorsal fairing - six latches and the tank access panel - 36 screws.		Centre fuselage abo	ove armament	bay.		
Gained by removing the dorsal fairing - six latches and the tank access panel - 36 screws.						
latches and the tank access panel - 36 screws.	ACCESS				МІ	EN X MINUTE
latches and the tank access panel - 36 screws.						
		Gained by removing	the dorsal	fairing - six		
REPLACEMENT PROCEDURE MEN X MINUTE		Tatches and the tar	ik access pa	aner - 90 scre	ws.	
REPLACEMENT PROCEDURE MEN X MINUTE						
REPLACEMENT PROCEDURE MEN X MINUTE						
REPLACEMENT PROCEDURE MEN X MINUTE						
REPLACEMENT PROCEDURE MEN X MINUTE						
REPLACEMENT PROCEDURE MEN X MINUTE						
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	REPLACEMENT PROCEDU	JRE	1		ME	EN X MINUTE
	REPLACEMENT PROCEDU	JRE			ME	EN X MINUTE:
	REPLACEMENT PROCEDU	JRE			ME	EN X MINUTE:
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	REPLACEMENT PROCEDI	JRE			ME	EN X MINUTE
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	REPLACEMENT PROCEDU	JRE			ME	EN X MINUTE:
	REPLACEMENT PROCEDU	JRE			ME	EN X MINUTE:
	REPLACEMENT PROCEDI	JRE			ME	EN X MINUTE:
	REPLACEMENT PROCEDU	JRE			ME	EN X MINUTE:

INSPECTION						MEN	X MINUTES	
f., a								
FUNCTIO	NAL CHECK	(S					MEN	X MINUTES
CDOUND	LIANDI ING	AND CDO	UND TEST	FOURNIEN	_			
GROUND	HANDLING	AND GRO	OND TEST	EQUIPMEN	ı			
SPECIAL	TOOLS TO	REMOVE O	R SERVICE					
REMARKS	5							
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SYSTEM	SUB-SYSTEM		COMPON	NENT	REF. NO.				
FUEL SYSTEM			Cell - Fu	el No. 2	16-2				
AVRO PART NO.	MANUFACTURER	MAN'F	'R'S PART NO.	AIRCRAF	T EFFECTIVITY				
7-1754-6	Dominion Rubber	25201							
OVERHAUL LIFE: KNO	OWN-	ES	TIMATED- 50	0 hours					
FUNCTION	To contain fuel and	d fuel sy	stem components.						
Centre fuselage above armament bay.									
ACCESS				-	MEN X MINUTES				
	Gained by removing and the tank access	the dors	al fairing - six 36 screws.	latches					
REPLACEMENT PROCEDL	IRE				MEN X MINUTES				

INSPECTI	ION						MEN	X MINUTES
FUNCTIO	NAL CHECK	(S					MEN	X MINUTES
						0.200		
GROUND	HANDLING	AND GRO	OUND TEST	EQUIPMEN	Т			
SPECIAL	TOOLS TO	REMOVE C	R SERVICE					
REMARKS	5			***	*			
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SYSTEM	SUB-SYSTEM		COMPON	NENT	REF. NO.
FUEL SYSTEM			Filter -	· Hot Air	16-3
AVRO-PART NO. 7-1654-7	MANUFACTURER Purolator Products	MAN'F	'R'S PART NO.	AIRCRAFT E	FFECTIVITY
OVERHAUL LIFE: KNOWN	I-	ES	TIMATED- 500	hours	
FUNCTION	To prevent particle entering fuel tank			om	
LOCATION	Centre Fuselage - 1	apper arm	ament bay.		
ACCESS				ME	N X MINUTES
	Accessible in arman lowered.	ment bay,	with missile pa	ck	
REPLACEMENT PROCEDURE				ME	N X MINUTES
	Locate the filter insert four mounting Connect two "Wig-o-	ng bolts. -Flex" co		ng.	
	Interchangeable con	mponent.			Monthly and Adding
-3413-2-5					

INSPECTION							MEN	MEN X MINUTES		
	Ren	nove filter	relement	and clean.						
FUNCTIO	NAL CHECK	<s< td=""><td></td><td></td><td></td><td></td><td></td><td>MEN</td><td>X MINUTES</td></s<>						MEN	X MINUTES	
GROUND	HANDLING	AND GRO	UND TEST	EQUIPMEN	Т					
SPECIAL	TOOLS TO	REMOVE O	R SERVICE							
	"W"	ig-o-Flex*	tools.							
REMARKS	5									
ISSUE	1									
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SYSTEM	SUB-SYSTEM	1	COMPON	NENT	REF. NO.
FUEL SYSTEM			Valve - Diffe Pressure Reg		16-4
AVRO PART NO.	MANUFACTURER	MAN'F	'R'S PART NO.	AIRCRAFT E	FFECTIVITY
7-1600-8	Aviation Electric			2520	01
OVERHAUL LIFE: KNO	-NWC	ES	TIMATED- 500 h	ours	
FUNCTION	To maintain fuselag	ge fuel t	ank sir pressure	at 10 psig.	
LOCATION	At Sta. 500 near th	ne bottom	skin of the inn	er wing.	
ACCESS	Gained through the camlocs.	electric	s access panel -		N X MINUTES
REPLACEMENT PROCEDU	JRE			ME	N X MINUTES
	Position the valve bolts. Connect one 1/4 inc	h line.		hment	
	Interchangeable com	mponent.			

INSPECTION	MEN X MINUTES
Check for security, damage, corrosion and leaks.	
FUNCTIONAL CHECKS	MEN X MINUTES
GROUND HANDLING AND GROUND TEST EQUIPMENT	
B4 stand.	
SPECIAL TOOLS TO REMOVE OR SERVICE	*
"Wig-o-Flex" tools.	
REMARKS	
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SYSTEM	SUB-SYSTEM	SUB-SYSTEM COMPONENT			REF. NO.	
FUEL SYSTEM			Flow Limiter (Differential Regulator)	16-5	
AVRO PART NO.	MANUFACTURER	MAN'F	'R'S PART NO.	AIRCRAFT E	FFECTIVITY	
7=1654=199	Le Clair Engineering	25201				
OVERHAUL LIFE: KNO	WN-	ES.	TIMATED- 500	hours		
FUNCTION	Limits air flow in within the capabily valve in the event	ities of	the differentia			
LOCATION	In the duct bay -	aft of St	ca. 485, near win	ng bottom ski	n.	
ACCESS				МЕ	N X MINUTES	
	Gained through ele	ctrics ac	cess panel - 74	camlocs.		
REPLACEMENT PROCEDUI	RE			ME	N X MINUTES	
	Connect two "Wig-o	-Flex" co	ouplings.			
	Interchangeable co					
				\$		
3x1-3x13-2-5						

INSPECTION							MEN)	MEN X MINUTES		
Check security of connections.										
FUNCTIO	NAL CHECK	(S						MEN)	X MINUTES	
GROUND	HANDLING	AND GRO	UND TEST	EQUIPMEN	Т					
SPECIAL	TOOLS TO	REMOVE O	R SERVICE	· · · · · · · · · · · · · · · · · · ·						
	"*W	ig-o-Flex"	tools.							
REMARKS	5									
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SYSTEM	SUB-SYSTEM		сомрог	NENT	REF. NO
FUEL SYSTEM			Flow Limiter Tank Supply)	(Fuselage	16-6
AVRO PART NO.	MANUFACTURER	MAN'F	R'S PART NO.	AIRCRAFT	FEFECTIVIT
7-1662-8	Le Clair Engineering			25:	201
OVERHAUL LIFE: KN	OWN-	ES	TIMATED- 500	hours	
FUNCTION					
	To prevent complete 1 limiting the flow of cell.				
LOCATION	110				
	In No. 2 fuselage fue	l cell.			
ACCESS			-7		MEN X MINUTE
	Accessible in No. 2 f Remove the dorsal fair Remove the tank acces Remove structural tie two bolts each.	ring - si s panel ·	x latches 36 screws.		
REPLACEMENT PROCED	URE	<u></u>			MEN X MINUTE
	Connect two "Wig-o-Fle Refuel the aircraft.	ex" coupl	ings.		
	Interchangeable compon	nent.			
				ži.	
1-3413-2-5					

INSPECT	ION						MEN X	MINUTES
								1.1
FUNCTIO	NAL CHECK	KS					MEN X	MINUTES
GROUND	HANDLING	AND GRO	UND TEST	EQUIPMEN	Т			
SPECIAL	TOOLS TO	REMOVE O	R SERVICE					
OI LOIAL								
	14 P	lig-o-Flex	tools .					
REMARK	S							
ISSUE	1							
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SYSTEM		SUB-SYSTEM		COMPO			REF. NO
FUEL SYSTEM			*	Valve - Differentia Relief		Air	16-7
AVRO PART NO.		MANUFACTURER	MAN'F	'R'S PART NO.	AIRCRA	AFT EF	FECTIVIT
7-1656-5	Car	nadian Pratt and Whitney	HS/50	3993-2		2520	L
OVERHAUL LIFE:	KNOWN	N-	ES	TIMATED- 500	hours		
FUNCTION							
		Safety valve (10.5 valve for fuselage		d remote control	led dump.		
LOCATION	- V - V - V - V - V - V - V - V - V - V						
		Sta 102 at battan	6 6	3			
		Sta. 492 at bottom	or luse	rage.			
ACCESS	1,					MEN	I X MINUTE
		Accessible through	the ele	ctrical access			
		Accessible through	the ele	ctrical access			
		Accessible through door by removing A	the ele 2 camloc	ctrical access			
		Accessible through door by removing A	the ele 2 camloc	ctrical access			
		Accessible through door by removing A	the ele 2 camloc	ctrical access			
REPLACEMENT PROC	CEDURE	door by removing A	the ele 2 camloc	ctrical access			X MINUTE
REPLACEMENT PROC	CEDURE	door by removing A	2 camloc	ts.			X MINUTE
REPLACEMENT PROC	CEDURE	Insert four attach	2 camloc	ts.			X MINUTE
REPLACEMENT PROC	CEDURE	door by removing A	2 camloc	ts.			X MINUTE
REPLACEMENT PROC	CEDURE	Insert four attach	2 camloc	ts.			X MINUTE
REPLACEMENT PROC	CEDURE	Insert four attach	2 camloc	ts.			X MINUTE
REPLACEMENT PROC	CEDURE	Insert four attach	2 camloc	ts.			X MINUTE
REPLACEMENT PROC	CEDURE	Insert four attach	2 camloc	ts.			X MINUTE
REPLACEMENT PROC	CEDURE	Insert four attach	2 camloc	ts.			X MINUTE
REPLACEMENT PROC	CEDURE	Insert four attach	2 camloc	ts.			X MINUTE
REPLACEMENT PROC	CEDURE	Insert four attach	2 camloc	ts.			X MINUTE
REPLACEMENT PROC	CEDURE	Insert four attach	2 camloc	ts.			X MINUTE
REPLACEMENT PROC	CEDURE	Insert four attach	2 camloc	ts.			X MINUTE

INSPECTION					MEN	X MINUTES
FUNCTIONAL CHECKS					MEN	X MINUTES
CROUND HANDLING AND	COOLING TEST			 		
GROUND HANDLING AND	D GROUND TEST	EQUIPMEN	1			
SPECIAL TOOLS TO REM	OVE OR SERVICE					
, 25%, 2 × 5 × 5						
REMARKS						
1						
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SYSTEM	SUB-SYSTEM	1	COMPO	VENT	REF. NO.
FUEL SYSTEM			Valve - Absolu Pressure Regu		16-8
AVRO PART NO.	MANUFACTURER	MAN'F	R'S PART NO.	AIRCRAFT E	FFECTIVITY
7-1600-20	Aviation Electric			25201	
OVERHAUL LIFE: KN	NOWN-	ES	TIMATED- 500 h	ours	
FUNCTION					
	To maintain wing	fuel tank	pressure at 25	psia.	
LOCATION					
	Sta. 670 near bo	ttom skin	of inner wing.		
ACCESS				ME	N X MINUTES
	Gained through No	. 3 Servi	ce door - 26 cam	locs.	
REPLACEMENT PROCED	URE			ME	N X MINUTES
	Attach two 1/4 in Attach the regular by two bolts •	tor to it:	s mounting brack	et	_
	Connect two elect: Connect two "Wig-				
1	Interchangeable c	omponent .			
(1-3+13-2-5					

Check for security, damage, corrosion and leaks. FUNCTIONAL CHECKS									
FUNCTIONAL CHECKS MEN X MINUTES GROUND HANDLING AND GROUND TEST EQUIPMENT Air conditioning unit. Air pressure gauge. SPECIAL TOOLS TO REMOVE OR SERVICE "Wig-o-Flex* tools. REMARKS ISSUE 1 DATE 29 Oct 56	INSPECT	ION						MEN	X MINUTES
FUNCTIONAL CHECKS MEN X MINUTES GROUND HANDLING AND GROUND TEST EQUIPMENT Air conditioning unit. Air pressure gauge. SPECIAL TOOLS TO REMOVE OR SERVICE "Wig-o-Flex* tools. REMARKS ISSUE 1 DATE 29 Oct 56									
FUNCTIONAL CHECKS MEN X MINUTES GROUND HANDLING AND GROUND TEST EQUIPMENT Air conditioning unit. Air pressure gauge. SPECIAL TOOLS TO REMOVE OR SERVICE "Wig-o-Flex* tools. REMARKS ISSUE 1 DATE 29 Oct 56	4	Ch	eck for se	curity, da	mage, cor	rosion and	leaks.		
GROUND HANDLING AND GROUND TEST EQUIPMENT Air conditioning unit. Air pressure gauge. SPECIAL TOOLS TO REMOVE OR SERVICE "Wig-o-Flex" tools. REMARKS ISSUE 1 DATE 29 Oct 56									
GROUND HANDLING AND GROUND TEST EQUIPMENT Air conditioning unit. Air pressure gauge. SPECIAL TOOLS TO REMOVE OR SERVICE "Wig-o-Flex" tools. REMARKS ISSUE 1 DATE 29 Oct 56									
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Air conditioning unit. Air pressure gauge. SPECIAL TOOLS TO REMOVE OR SERVICE "Wig-o-Flex" tools. REMARKS ISSUE 1 DATE 29 Oct 56									
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Air pressure gauge. SPECIAL TOOLS TO REMOVE OR SERVICE "Wig-o-Flex" tools. REMARKS ISSUE 1 DATE 29 Oct 56	GROUNE	HANDLING	G AND GRO	OUND TEST	EQUIPMEN	IT			
Air pressure gauge. SPECIAL TOOLS TO REMOVE OR SERVICE "Wig-o-Flex" tools. REMARKS ISSUE 1 DATE 29 Oct 56		Ai	r conditio	ning unit.					
REMARKS ISSUE 1 DATE 29 Oct 56									
REMARKS ISSUE 1 DATE 29 Oct 56									
REMARKS ISSUE 1 DATE 29 Oct 56	SPECIAL	TOOLS TO	REMOVE C	R SERVICE		-			
REMARKS ISSUE 1 DATE 29 Oct 56									
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SYSTEM		SUB-SYSTEM		COMPON	NENT	REF, NO.
FUEL SYSTEM				Flow Limiter (Regulator	Absolute	16-9
AVRO PART NO.	MAN	NUFACTURER	MAN'F	R'S PART NO.	AIRCRAFT E	FFECTIVITY
7-1656-227	Le Cla	ir Engineering	25201			
OVERHAUL LIFE: KN	OWN-		ES	TIMATED- 500	hours	
FUNCTION	to	mits air flow in within the capad lief valve in the	oilities	of the absolute	air pressure	
LOCATION	Sta	a. 663 - near wir	ng bottom	skin.		
ACCESS					МЕ	N X MINUTES
REPLACEMENT PROCEDU	JRE				ME	N X MINUTES
	Con	nnect two "Wig-o-	-Flex ⁿ co	uplings.		
	In	terchangeable com	nponent.			
TN1-3413+2-9						

INSPECT	ION						MEN X	MINUTES
	Ch	eck securi	ty of con	nections.				
FUNCTIO	NAL CHEC	KS					MEN X	MINUTES
GROUND	HANDLING	S AND GRO	UND TEST	EQUIPMEN	IT			
SPECIAL	TOOLS TO	REMOVE O	R SERVICE					
	th W	ig-o-Flex"	tools.					
REMARKS	6							
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			AND THE PERSON WHEN THE PERSON	NENT	REF, NO
SYSTEM	SUB-SYSTEM	SUB-SYSTEM			
FUEL SYSTEM			Valve - Absol	lute Air	16-10
			Relief		
AVRO PART NO.	MANUFACTURER	MANIE	'R'S PART NO.	AIRCRAE	T EFFECTIVI
AVIIO I AITI ITO.	MANOTACTORER	MOIN	NO PART NO.	AINONAI	LITECTIVI
7-1656-4	Hamilton			2520	1
OVERHAUL LIFE: KN	OWN-	FS	TIMATED- 500	hours	
				- Hours	
FUNCTION	Acts as a safety value in the wing tank pres			dump valve	e
LOCATION	In the Engine Bay - & bottom skin.	Sta. 674.	16, 27 inches be	elow wing	
ACCESS					MEN X MINUT
				_	
	Accessible through No	o. 3 Serv	ice door - 30 ca	amlocs.	
DEDI ACEMENT PROCEDI	lipe -				MEN Y MINIT
REPLACEMENT PROCED	URE				MEN X MINUT
REPLACEMENT PROCEDI	URE			_	MEN X MINUT
REPLACEMENT PROCEDI	Insert the four attace Attach the four-way: Attach fuel pressuring Connect six "Wig-o-F" Connect four bonding Connect one electrics	fittings. zation pi lex" coup jumpers.	pe. lings.		MEN X MINUT
REPLACEMENT PROCED	Insert the four attace Attach the four-way: Attach fuel pressuring Connect six "Wig-o-F. Connect four bonding	fittings. zation pi lex" coup jumpers.	pe. lings.		MEN X MINUT
REPLACEMENT PROCEDI	Insert the four attace Attach the four-way: Attach fuel pressuring Connect six "Wig-o-F. Connect four bonding	fittings. zation pi lex" coup jumpers.	pe. lings.		MEN X MINUT
REPLACEMENT PROCEDI	Insert the four attace Attach the four-way: Attach fuel pressuring Connect six "Wig-o-F. Connect four bonding	fittings. zation pi lex" coup jumpers.	pe. lings.		MEN X MINUT
REPLACEMENT PROCED	Insert the four attace Attach the four-way: Attach fuel pressuring Connect six "Wig-o-F. Connect four bonding	fittings. zation pi lex" coup jumpers.	pe. lings.		MEN X MINUT
REPLACEMENT PROCEDI	Insert the four attace Attach the four-way: Attach fuel pressuring Connect six "Wig-o-F. Connect four bonding	fittings. zation pi lex" coup jumpers.	pe. lings.		MEN X MINUT
REPLACEMENT PROCED	Insert the four attace Attach the four-way: Attach fuel pressuring Connect six "Wig-o-F. Connect four bonding	fittings. zation pi lex" coup jumpers.	pe. lings.		MEN X MINUT
REPLACEMENT PROCED!	Insert the four attace Attach the four-way: Attach fuel pressuring Connect six "Wig-o-F. Connect four bonding	fittings. zation pi lex" coup jumpers.	pe. lings.		MEN X MINUT
REPLACEMENT PROCEDI	Insert the four attace Attach the four-way: Attach fuel pressuring Connect six "Wig-o-F. Connect four bonding	fittings. zation pi lex" coup jumpers.	pe. lings.		MEN X MINUT
REPLACEMENT PROCEDI	Insert the four attace Attach the four-way: Attach fuel pressuring Connect six "Wig-o-F. Connect four bonding	fittings. zation pi lex" coup jumpers.	pe. lings.		MEN X MINUT

INSPECTION	MEN X MINUTES
Check for security, damage, leakage and corrosion.	
FUNCTIONAL CHECKS	MEN X MINUTES
GROUND HANDLING AND GROUND TEST EQUIPMENT	
SPECIAL TOOLS TO REMOVE OR SERVICE	
"Wig-o-Flex" tools.	
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SYSTEM	SUB-SYSTEM	A	COMPON	1ENT	REF. NO.
FUEL SYSTEM			Valve - Servo Regul		16-11
AVRO PART NO. 7-1654-144	MANUFACTURER Airesearch	MAN'F	'R'S PART NO.	AIRCRAFT 252	EFFECTIVIT
OVERHAUL LIFE: KNO	WN-	ES	TIMATED- 500	hours	
FUNCTION	Regulates the contr valves. Regulates ial regulator valve purposes.	a supply	of air at 15 ps	ig to the d	ifferent-
LOCATION	In the duct bay at	Sta. 485			
ACCESS				N	MEN X MINUTE
	Gained through the 74 camlocs.	electric	s access door -		
REPLACEMENT PROCEDUR	RE			M	IEN X MINUTE
	Install the valve, Connect three air 1 flared and one flar	ines (5/	wo nuts. 16 inch dia. two		
	Interchangeable com	ponent.			

INSPECTI	ON						MEN	X MINUTES
	Ch	eck for se	curity, da	amage, cor	rosion and	l leakage.		
FUNCTIO	NAL CHECK	(S					MEN	X MINUTES
GROUND	HANDLING	AND GRO	UND TEST	EQUIPMEN	T			
	Ai	r pressure	gauge.					
SPECIAL	TOOLS TO	REMOVE O	R SERVICE					
REMARKS	5							
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SYSTEM	SUB-SYSTEM	COMPONENT	r REF. NO.
FUEL SYSTEM		Valve - Air/No-Fue	el - Upper 16-12
AVRO PART NO. 7-1654-21	MANUFACTURER	MAN'F'R'S PART NO. AI	RCRAFT EFFECTIVITY 25201
OVERHAUL LIFE: KNO	WN-	ESTIMATED- 500 hour	rs
FUNCTION	To prevent the en	try of fuel into the fuel rization lines.	
LOCATION	Inside fuselage for top of each tank.	uel tanks, two valves at the	
ACCESS	Remove dorsal fair Remove tank access	n fuselage tank access panel. ring - six latches. s panel - 36 screws. tie bars as required - two	MEN X MINUTES
REPLACEMENT PROCEDUR	Install the valves attachment nuts. Connect the pressue coupling.	·	

INSPECT	ION						MEN	X MINUTES
FUNCTIO	NAL CHECK	KS.					MEN	X MINUTES
TONCTIO	IVAL CITEC	λ3					MEN	X MINUTES
GROUND	HANDLING	AND GRO	UND TEST	EQUIPMEN	IT			
SPECIAL	TOOLS TO	REMOVE O	R SERVICE					
REMARKS	5							
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SYSTEM	SUB-SYSTEM	SUB-SYSTEM		IENT	REF. NO.
FUEL SYSTEM			Valve - Air/No-	Fuel - Lower	16-13
AVRO PART NO.	MANUFACTURER	MAN'F	R'S PART NO.	AIRCRAFT E	FFECTIVITY
7-1654-22				252	01
OVERHAUL LIFE: KNO	OWN-	ES.	TIMATED- 500	hours	
FUNCTION	To prevent the en		el into the fuel	system	74
LOCATION	Inside fuselage f	uel tanks	, one valve at t	the bottom	
ACCESS	Accessible throug panels. Remove the dorsal Remove tank acces Remove one struct	fairing	- six latches. 36 screws.	ıs	N X MINUTES
REPLACEMENT PROCEDU	Install the valve attachment nuts. Connect the press coupling. Connect the flare control air line. Refuel the aircra	urizationed fitting	air line "Wig-o	o-Flex ⁿ	N X MINUTES

INSPECTION	MEN X MINUTES
FUNCTIONAL CHECKS	MEN X MINUTES
GROUND HANDLING AND GROUND TEST EQUIPMENT	
SPECIAL TOOLS TO REMOVE OR SERVICE	
"Wig-o-Flex" tools.	
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SYSTEM	SUB-SYSTEM		COMPON	VENT	REF. NO.
FUEL SYSTEM			Valve - Nega Low Level Ai		16-14
AVRO PART NO.	MANUFACTURER	MAN'F	R'S PART NO.	AIRCRAFT	EFFECTIVIT'
7-1662-7	Hymatic			252	01
OVERHAUL LIFE: KNO	OWN-	ES [*]	TIMATED- 500	hours	
FUNCTION	Admits air pressur from wing and fuse inverted flight or wing and fuselage	lage tani by actio	ks is interrupte	d, as during	
LOCATION	Inside collector t	ank, on 1	oottom skin.		
ACCESS				1	EN X MINUTE
	Valve - Gained thr of inner wing - 29		ess panel in top	skin	
	Locknut and line d access panel - 44		t - Through elec	trics	
REPLACEMENT PROCEDU	JRE			М	EN X MINUTE
	Position the valve Secure the locking Connect the pipeli Refuel aircraft.	ring at	outside of tank	•	
	Interchangeable co	mponent.			
		mponent.			

INSPECT	ION						MEN	X MINUTES
	1							
FUNCTIO	NAL CHECK	(S					MEN	X MINUTES
GROUND	HANDLING	AND GRO	UND TEST	FOUIPMEN	т			
SPECIAL	TOOLS TO	REMOVE O	R SERVICE					
REMARKS	5							
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SYSTEM	SUB-SYSTEM		COMPON	ENT	REF. NO.
FUEL SYSTEM			Valve - Air Re	lease	16-15
AVRO PART NO. 7-1600-19	MANUFACTURER Manning, Maxwell and Moore	MAN'F	R'S PART NO.	AIRCRAFT E	
OVERHAUL LIFE: KNC	DWN-	ES	TIMATED- 500 ho	urs	
FUNCTION	Serves as a means collector tank, pr				
LOCATION	In the collector t	canks. F	orward inboard an	d aft outboa	rd.
ACCESS	Gained through the top skin. Forward valve gain panel - 29 screws. Aft valve gained t panel - 29 screws.	ned through	gh the forward ac	cess	N X MINUTE
REPLACEMENT PROCEDU	IRE			ME	N X MINUTE:
	Insert the four at Connect the overbo				
	Interchangeable co	emponent.			

INSPECT	ION							MEN	X MINUTES
FUNCTIO	NAL CHECK							MEN	X MINUTES
TONCTIO	TAL CITEO	(3						MEIN	X MINUTES
								H	
GROUND	HANDLING	AND GRO	UND TEST	EQUIPMEN	Т				
									,41
SPECIAL	TOOLS TO	REMOVE O	R SERVICE						
									7 4
REMARK	S								
	Fa	ccessive function	iel ventin	g from duo	et bay fla	me trap du	ring r		
	re	elease valu	re.						
		determine							
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SYSTEM	SUB-SYSTEM		СОМРО	NENT	REF. NO.	
FUEL SYSTEM			Unit - Flow Pro	portioner	16-16	
AVRO PART NO. 7-1662-2	MANUFACTURER Eclipse Pioneer	MAN'F'I	R'S PART NO.		25201	
OVERHAUL LIFE: KNO	WN-	EST	IMATED- 500	hours		
FUNCTION	To proportion the individual fuel ta		uel into and ou	at of the		
LOCATION	On the front face	of the ma	in spar.			
ACCESS	Gained through hin of wing - 48 screw		in underside	МЕ	N X MINUTES	
REPLACEMENT PROCEDU	RE			ME	N X MINUTES	
	Insert the four ma Connect three fuel Connect the electr shut-off valve and Refuel the aircraf Interchangeable co	line "Wi ical conr by-pass t.	g-o-Flex" coupl mection to the			

INSPECTION	MEN X MINUTES
EUNICIANAL OUTSIGE	
FUNCTIONAL CHECKS	MEN X MINUTES
GROUND HANDLING AND GROUND TEST EQUIPMENT	
SPECIAL TOOLS TO REMOVE OR SERVICE	
"Wig-o-Flex" tools.	
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SYSTEM	SUB-SYSTEM		COMPON	NENT	REF. NO.	
	302 37312					
FUEL SYSTEM			Valve - Fuel/M	lo-Air	16-17	
AVRO PART NO.	MANUFACTURER					
7-1600-45	Aero Supply and Flight Refuelling			25201		
OVERHAUL LIFE: KNO	DWN-	ES	TIMATED- 500 E	nours		
FUNCTION	To prevent ingress			zation		
LOCATION	Two in No's 1, 2, One in No 4 fuel		and 8 fuel tanks	٠		
ACCESS REPLACEMENT PROCEDU	Fuel/No-Air valves ible through accessible through accessible through accessible to the second of th	5 screws 36 scr rews. anks - 29 ss in fuse six latchequired. ttachment o-Flex* crical leaft.	rews. P screws. Plage tanks = remes, tank access to bolts. coupling.	o skin as	N X MINUTES	

INSPECT	ON						MEN 3	X MINUTES
					7			
FUNCTIO	NAL CHECK	(S					MEN 3	K MINUTES
CROUND	HANDI INC	AND CDO	UND TEST	FOLUDATA	-			
GROUND	HANDLING	AND GRO	UND TEST	EQUIPMEN	1			
SPECIAL	TOOLS TO	DEMOVE O	D SERVICE					
SPECIAL								
	n	Wig-o-Flex	t tools.					
REMARKS	6							
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			the second secon	2000 00000	
SYSTEM	SUB-SYSTEM		COMPON	NENT	REF. NO.
FUEL SYSTEM			Pump - Fuel Tr	ansfer	16-18
AVRO PART NO. 7-1656-115,116	MANUFACTURER Hydrosire	MAN'F	'R'S PART NO.	AIRCRAFT E	
OVERHAUL LIFE: KNO	WN-	ES	TIMATED- 500	hours	
FUNCTION	Used in the fuel to equalize press flow proportioner	ures at			
LOCATION	In the duct bay,	lower wi	ng skin Sta. 492	.0 to 497.0.	
ACCESS	Accessible throug 74 camlocs.	th electr	ics access door		EN X MINUTE
REPLACEMENT PROCEDUR	Attach the pressu Insert four attac Connect two "Wig- Connect one elect Install the air r from LH collector Refuel the aircra	chment bolo-Flex" (rical concelease value tank to ft.	lts. couplings. nnector. alve vent line tee.	ME	N X MINUTE

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INSPECT	ION						MEN X	MINUTES
FUNCTIO	NAL CHECK	<s< td=""><td></td><td></td><td></td><td></td><td>MEN X</td><td>MINUTES</td></s<>					MEN X	MINUTES
GROUND	HANDLING	AND GRO	UND TEST	EQUIPMEN	IT			
SPECIAL	TOOLS TO	REMOVE O	R SERVICE					
REMARK	5							
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SYSTEM	SUB-SYSTEM		COMPO	NENT	REF. NO.
FUEL SYSTEM			Valve - Fuel Regul		16-19
AVRO PART NO.	MANUFACTURER	MAN'F	"R'S PART NO.	AIRCRAFT E	FFECTIVITY
7-1656-117	Schulz			. 2520.	1
OVERHAUL LIFE: KNC	DWN-	ES	TIMATED- 500	hours	
FUNCTION					
	To regulate the outransfer pumps to			51	
LOCATION	In duct bay, downs transfer pumps.	tream of	fuselage fuel		
ACCESS				МЕ	N X MINUTES
	Accessible through 74 camlocs.	n electri	cal access panel	-	
REPLACEMENT PROCEDU	RE			МЕ	N X MINUTES
	Mount the valve or secure the four at Refit and connect Refuel the aircraf	ttaching the "Wig	nuts.	g.	
	Interchangeable co	omponent.			
				Š.	
1-)+11-2-3					

INSPECTION	MEN X MINUTES
Check for security, leakage, corrosion and damage.	
FUNCTIONAL CHECKS	MEN X MINUTES
GROUND HANDLING AND GROUND TEST EQUIPMENT	
SPECIAL TOOLS TO REMOVE OR SERVICE	
"Wig-o-Flex" tools.	
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SYSTEM	SUB-SYSTEM		COMPON	VENT	REF. NO.
FUEL SYSTEM			Switch - Low Warning	Level	16-20
AVRO PART NO.	MANUFACTURER	MAN'F	R'S PART NO.	AIRCRAFT I	EFFECTIVITY
7-1654-213	Minneapolis - Honeywell			252	01
OVERHAUL LIFE: KN	OWN-	ES	TIMATED- 500 h	ours	
FUNCTION	On receiving a fu liquid level sens actuates a warnin flow proportioner	or in the	e collector tank	, the switch nd the fuel	
LOCATION		***	a .	5 25 2 2 25	
	On the main acces	sory pan	el E5 armament b	ay.	
ACCESS		30 30 30 30		М	EN X MINUTES
	Accessible in mis	gile hev	with missile na	ck	
	lowered. Drop panel from f forward pip pins.	orward m	*		
REPLACEMENT PROCED	lowered. Drop panel from f forward pip pins.	orward m	*	g	EN X MINUTES
REPLACEMENT PROCED	lowered. Drop panel from f forward pip pins.	orward m	*	g	EN X MINUTES
REPLACEMENT PROCED	lowered. Drop panel from f forward pip pins.	orward me	ounts by removing	g	EN X MINUTES
REPLACEMENT PROCED	lowered. Drop panel from f forward pip pins.	orward me	ounts by removing	g	EN X MINUTES
REPLACEMENT PROCED	lowered. Drop panel from f forward pip pins.	orward me	ounts by removing	g	EN X MINUTES
REPLACEMENT PROCEDI	lowered. Drop panel from f forward pip pins.	orward me	ounts by removing	g	EN X MINUTES
REPLACEMENT PROCED	lowered. Drop panel from f forward pip pins.	orward me	ounts by removing	g	EN X MINUTES
REPLACEMENT PROCEDI	lowered. Drop panel from f forward pip pins.	orward me	ounts by removing	g	EN X MINUTES
REPLACEMENT PROCEDI	lowered. Drop panel from f forward pip pins.	orward me	ounts by removing	g	EN X MINUTES

INSPECT	ION					7	MEN X	MINUTES
FUNCTIO	NAL CHECK	<s< th=""><th></th><th></th><th></th><th></th><th>MEN X</th><th>MINUTES</th></s<>					MEN X	MINUTES
GROUND	HANDLING	AND GRO	UND TEST	EQUIPMEN	Т			
SPECIAL	TOOLS TO	REMOVE O	R SERVICE					
REMARK	5							
								1 =
ISSUE	1							
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SYSTEM	SUB-SYSTEM		COMPON	IENT	REF. NO.
	308-3131211				
FUEL SYSTEM			Pump - Fuel Bo	poster	16-21
AVRO PART NO.	MANUFACTURER	MAN'F	'R'S PART NO.	AIRCRAFT	EFFECTIVITY
7-1662-583 and 584	Pesco Products - Borg Warner	X02323.	4 - 010 and 011	25	201
OVERHAUL LIFE: KNC	DWN-	ES	TIMATED- 500 B	nours	
FUNCTION	To provide suffic engine fuel pump subsequent vapour	to suppr			
LOCATION	Inside LH and RH	collector	r tanks - inner v	√ing.	
ACCESS					IEN X MINUTES
	Gained through ac inner wing, over inch bolts.				
	Booster pump driv				
REPLACEMENT PROCEDU	RE			M	EN X MINUTES
	Mount the pump on secure with three Connect the pump Connect three "Wi Refuel the aircra	3/8 inclintake condischarged	n nuts. ouplings. e coupling.	E	
	Interchangeable c	omponent	•		

INSPECTION	MEN X	MINUTES
Check for security and leakage.		
FUNCTIONAL CHECKS	MEN X	MINUTES
GROUND HANDLING AND GROUND TEST EQUIPMENT		
SKOOND HANDLING AND GROOND IEST EQUIPMENT		
SPECIAL TOOLS TO REMOVE OR SERVICE		
"Wig-o-Flex" tools.		
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FUEL SYSTEM Valve - Booster Pump By-pass 16-22 AVRO PART NO. MANUFACTURER MAN'F'R'S PART NO. AIRCRAFT EFFECTIVIT 7-1662-671 Essex 25201 OVERHAUL LIFE: KNOWN- ESTIMATED- 500 hours						
AVRO PART NO. 7-1662-671 Essex MANUFACTURER MANYFR'S PART NO. 7-1662-671 Essex ESTIMATED- 500 hours FUNCTION To permit engine feed around pump in the event of pump failure. LOCATION Inside collector tank, near booster pump. ACCESS Gained through booster pump access panel in top skin of inner wing - 92 x 5/16 inch and four 1/4 inch bolts. Position the valve. Connect the "Mig-o-Flex" coupling at outside of collector tank. Insert the three attachment bolts inside collector tank. Connect the two remaining "Wig-o-Flex" couplings. Refuel the aircraft.	SYSTEM	SUB-SYSTEM		COMPON	NENT	REF. NO.
AVRO PART NO. 7-1662-671 Essex ESTIMATED- 500 hours FUNCTION To permit engine feed around pump in the event of pump failure. LOCATION Inside collector tank, near booster pump. ACCESS Gained through booster pump access panel in top skin of inner wing - 92 x 5/16 inch and four 1/4 inch bolts. Position the valve. Connect the "Wig-o-Flex" coupling at outside of collector tank. Insert the three attachment bolts inside collector tank. Connect the two remaining "Wig-o-Flex" couplings. Refuel the aircraft.	FUEL SYSTEM				r Pump	16-22
7-1662-671 Essex ESTIMATED- 500 hours FUNCTION To permit engine feed around pump in the event of pump failure. LOCATION Inside collector tank, near booster pump. ACCESS Gained through booster pump access panel in top skin of inner wing - 92 x 5/16 inch and four 1/4 inch bolts. Position the valve. Connect the "Wig-o-Flex" coupling at outside of collector tank. Insert the three attachment bolts inside collector tank. Connect the two remaining "Wig-o-Flex" couplings. Refuel the aircraft.	AVDO DADE NO					
FUNCTION To permit engine feed eround pump in the event of pump failure. LOCATION Inside collector tank, near booster pump. ACCESS Gained through booster pump access panel in top skin of inner wing - 92 x 5/16 inch and four 1/4 inch bolts. MEN X MINUTE Position the valve. Connect the "Wig-o-Flex" coupling at outside of collector tank. Insert the three attachment bolts inside collector tank. Connect the two remaining "Wig-o-Flex" couplings. Refuel the aircraft.	AVRO PART NO.	MANUFACTURER	MAN'F	'R'S PART NO.		
To permit engine feed around pump in the event of pump failure. LOCATION Inside collector tank, near booster pump. ACCESS Gained through booster pump access panel in top skin of inner wing - 92 x 5/16 inch and four 1/4 inch bolts. REPLACEMENT PROCEDURE Position the valve. Connect the "Mig-o-Flex" coupling at outside of collector tank. Insert the three attachment bolts inside collector tank. Connect the two remaining "Wig-o-Flex" couplings. Refuel the aircraft.	7-1662-671	Essex			25	201
To permit engine feed around pump in the event of pump failure. LOCATION Inside collector tank, near booster pump. MEN X MINUTE Gained through booster pump access panel in top skin of inner wing - 92 x 5/16 inch and four 1/4 inch bolts. Position the valve. Connect the "Mig-o-Flex" coupling at outside of collector tank. Insert the three attachment bolts inside collector tank. Connect the two remaining "Wig-o-Flex" couplings. Refuel the aircraft.	OVERHAUL LIFE: KNO	WN-	ES	TIMATED- 500	hours	
Position the valve. Connect the "Wig-o-Flex" couplings at outside collector tank. Connect the two remaining "Wig-o-Flex" couplings. Refuel the aircraft.	FUNCTION	- 1			,	
Inside collector tank, near booster pump. ACCESS Gained through booster pump access panel in top skin of inner wing - 92 x 5/16 inch and four 1/4 inch bolts. MEN X MINUTE Position the valve. Connect the "Wig-o-Flex" coupling at outside of collector tank. Insert the three attachment bolts inside collector tank. Connect the two remaining "Wig-o-Flex" couplings. Refuel the aircraft.				und pump in the		
Gained through booster pump access panel in top skin of inner wing - 92 x 5/16 inch and four 1/4 inch bolts. REPLACEMENT PROCEDURE Position the valve. Connect the "Mig-o-Flex" coupling at outside of collector tank. Insert the three attachment bolts inside collector tank. Connect the two remaining "Wig-o-Flex" couplings. Refuel the aircraft.	LOCATION					
Gained through booster pump access panel in top skin of inner wing - 92 x 5/16 inch and four 1/4 inch bolts. MEN X MINUTE Position the valve. Connect the "Wig-o-Flex" coupling at outside of collector tank. Insert the three attachment bolts inside collector tank. Connect the two remaining "Wig-o-Flex" couplings. Refuel the aircraft.		Inside collector	tank, ne	ar booster pump.		
Gained through booster pump access panel in top skin of inner wing - 92 x 5/16 inch and four 1/4 inch bolts. MEN X MINUTE Position the valve. Connect the "Wig-o-Flex" coupling at outside of collector tank. Insert the three attachment bolts inside collector tank. Connect the two remaining "Wig-o-Flex" couplings. Refuel the aircraft.	Access					APAL V MINITE
REPLACEMENT PROCEDURE Position the valve. Connect the "Wig-o-Flex" coupling at outside of collector tank. Insert the three attachment bolts inside collector tank. Connect the two remaining "Wig-o-Flex" couplings. Refuel the aircraft.	ACCESS					MEN X MINUTE
Position the valve. Cornect the "Wig-o-Flex" coupling at outside of collector tank. Insert the three attachment bolts inside collector tank. Connect the two remaining "Wig-o-Flex" couplings. Refuel the aircraft.		Gained through bo	oster pu	mp access panel	in top	
Position the valve. Connect the "Wig-o-Flex" coupling at outside of collector tank. Insert the three attachment bolts inside collector tank. Connect tank two remaining "Wig-o-Flex" couplings. Refuel the aircraft.			16 - /~ A	J/ 10 Inch and 1	Jul 1/4	
Position the valve. Connect the "Wig-o-Flex" coupling at outside of collector tank. Insert the three attachment bolts inside collector tank. Connect tank two remaining "Wig-o-Flex" couplings. Refuel the aircraft.						
Position the valve. Connect the "Wig-o-Flex" coupling at outside of collector tank. Insert the three attachment bolts inside collector tank. Connect tank two remaining "Wig-o-Flex" couplings. Refuel the aircraft.						
Position the valve. Connect the "Wig-o-Flex" coupling at outside of collector tank. Insert the three attachment bolts inside collector tank. Connect tank two remaining "Wig-o-Flex" couplings. Refuel the aircraft.						
Position the valve. Connect the "Wig-o-Flex" coupling at outside of collector tank. Insert the three attachment bolts inside collector tank. Connect tank two remaining "Wig-o-Flex" couplings. Refuel the aircraft.						
Connect the "Wig-o-Flex" coupling at outside of collector tank. Insert the three attachment bolts inside collector tank. Connect the two remaining "Wig-o-Flex" couplings. Refuel the aircraft.	REPLACEMENT PROCEDU	RE			t	MEN X MINUTE
Connect the "Wig-o-Flex" coupling at outside of collector tank. Insert the three attachment bolts inside collector tank. Connect the two remaining "Wig-o-Flex" couplings. Refuel the aircraft.		79 - * 1 2 - 1 3 - 1 3 - 1				
of collector tank. Insert the three attachment bolts inside collector tank. Connect the two remaining "Wig-o-Flex" couplings. Refuel the aircraft.				coupling at outs	ide	
collector tank. Connect the two remaining "Wig-o-Flex" couplings. Refuel the aircraft.		of collector tank	٥.			
Connect the two remaining "Wig-o-Flex" couplings. Refuel the aircraft.			attachme	nt bolts inside		
		Connect the two r		"Wig-o-Flex" co	uplings.	
		<u></u>		-		

INSPECT	ION						MEN	X MINUTES
FUNCTIO	NAL CHECI	KS					MEN	X MINUTES
GROUND	HANDLING	AND GRO	UND TEST	EQUIPMEN	т			
CKOOKB	TANDEING	AND GIVE	OND TEST	EQUIT WILL				
SPECIAL	TOOLS TO	REMOVE O	R SERVICE					
		"Wig-o-Fle	x" tools.					
REMARKS	5							
								4
ISSUE	1							
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SYSTEM	SUB-SYSTEM		COMPON	NENT	REF. NO.
FUEL SYSTEM			Valve - Fuel F	eed Control	16-23
AVRO PART NO.	MANUFACTURER	MAN'F	'R'S PART NO.	AIRCRAFT E	FFECTIVITY
7-1600-61	General Controls			2520	1
OVERHAUL LIFE: KNOW!				hours	
FUNCTION	Serves as a position against flow pressure cock valve is used as each engine to increasefeed. One to	w in eith k in the an isola solate th	ner direction. Of fuel supply line ting valve in the ne inoperative si	one valve is to each engue fuel suppled of the sy	used as a ine. One y line to
LOCATION					
	In the duct bay	- Sta. 55	50.		
ACCESS		MIC COLL		ME	EN X MINUTES
	Gained through the 52 camlocs.	he hydrau	dics access door		
REPLACEMENT PROCEDURE				ME	EN X MINUTES
	Secure 12 x 5/16 Connect electrics		o screws.		
	1nterchangeable	component			

INSPECT	ION	MEN X	MINUTES
	Check for security, damage, corrosion and leakage.		
FUNCTIO	NAL CHECKS	MENLY	MANUTEC
TONCTIC	NAL CHECKS	MENX	MINUTES
GROUND	HANDLING AND GROUND TEST EQUIPMENT		
SPECIAL	TOOLS TO REMOVE OR SERVICE		
REMARK	5		
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SYSTEM	SUB-SYSTEM	1	СОМРОГ	NENT	REF. NO.
FUEL SYSTEM			Adaptor - Re	fuelling	16-24
AVRO PART NO. 7-1662-447	MANUFACTURER Flight Refuelling		"R'S PART NO.	AIRCRAFT E	 :FFECTIVITY
OVERHAUL LIFE: KNO	OWN-	ES	TIMATED-	500 hours	
FUNCTION				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
	Serves as the ai	rcraft gr	round pressure re	efuelling	
LOCATION	One in each main	landing	gear wheel well.	•	
ACCESS				МЕ	EN X MINUTES
	Accessible throu door in main lan 48 screws.			ess	
REPLACEMENT PROCEDU	JRE	7		ME	N X MINUTES
	Insert the eight Connect one "Wig Refuel the aircr Interchangeable	-o-Flex"	coupling.	its.	

INSPECTION	MEN X MINUTES
Check for security, damage and leakage.	
FUNCTIONAL CHECKS	MEN X MINUTES
GROUND HANDLING AND GROUND TEST EQUIPMENT	
SPECIAL TOOLS TO REMOVE OR SERVICE	
REMARKS	
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SYSTEM	SUB-SYSTEM		COMPON	NENT	REF. NO.
FUEL SYSTEM			Cap - Refuell	ing Adaptor	16-25
AVRO PART NO.	MANUFACTURER	MAN'F	R'S PART NO.	AIRCRAFT E	EFFECTIVITY
7-1662-471	Flight Refuelling	07-0	1-060	252	01
OVERHAUL LIFE: KNOW	WN-	ES	FIMATED- 500 h	ours	
FUNCTION					
	Provides a dust o pressure refuelli	ap and a	secondary seal	for the	
LOCATION	7-10-1				
	On the pressure r		g adaptor - main	landing	
ACCESS				ME	EN X MINUTE
			ling access pane	1	
	Accessible throug in main wheel wel			1	
				1	ì
				1	
REPLACEMENT PROCEDUR	in main wheel wel				EN X MINUTE:
REPLACEMENT PROCEDUR	in main wheel wel	y chain to volving ion.	latches. to hook MS29523- it 1/4 turn in a	1.	EN X MINUTE
REPLACEMENT PROCEDUR	in main wheel wel	y chain to volving to on.	to hook MS29523-it 1/4 turn in a	1.	EN X MINUTE
REPLACEMENT PROCEDUR	Connect the safet Fit the cap by re clockwise directi Secure the bayone	y chain to volving to on.	to hook MS29523-it 1/4 turn in a	1.	EN X MINUTE
REPLACEMENT PROCEDUR	Connect the safet Fit the cap by re clockwise directi Secure the bayone	y chain to volving to on.	to hook MS29523-it 1/4 turn in a	1.	EN X MINUTE
REPLACEMENT PROCEDUR	Connect the safet Fit the cap by re clockwise directi Secure the bayone	y chain to volving to on.	to hook MS29523-it 1/4 turn in a	1.	EN X MINUTE:
REPLACEMENT PROCEDUR	Connect the safet Fit the cap by re clockwise directi Secure the bayone	y chain to volving to on.	to hook MS29523-it 1/4 turn in a	1.	EN X MINUTE:
REPLACEMENT PROCEDUR	Connect the safet Fit the cap by re clockwise directi Secure the bayone	y chain to volving to on.	to hook MS29523-it 1/4 turn in a	1.	EN X MINUTE:
REPLACEMENT PROCEDUR	Connect the safet Fit the cap by re clockwise directi Secure the bayone	y chain to volving to on.	to hook MS29523-it 1/4 turn in a	1.	EN X MINUTE:

INSPECTION	MEN X MINUTES
Check for security, damage and sealing efficiency.	
FUNCTIONAL CHECKS	MEN X MINUTES
GROUND HANDLING AND GROUND TEST EQUIPMENT	
SPECIAL TOOLS TO REMOVE OR SERVICE	
REMARKS	
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SUB-SYSTEM		COMPON	NENT	REF. NO.
		Valve - Gate Ope		16-26
MANUFACTURER	MAN'F'	R'S PART NO.	AIRCRAFT	EFFECTIVITY
General Controls			252	01
NOWN-	EST	IMATED- 500) hours	
refuelling and d	efuelling	and to direct f		h
Adjacent to flow the main spar.	proporti	oners on the fro	ont face of	
				MEN X MINUTE
Gained through t inner wing - 48	he hinged screws.	door in undersi	lde of	
DURE				MEN X MINUTE
Connect two "Wig Connect door lin	g-o-Flex"	couplings.		
	General Controls NOWN- To isolate the orefuelling and of the refuelling of the refuelling. Adjacent to flow the main spar. Gained through tinner wing - 48 DURE Insert the four Connect two "Wig Connect door line."	General Controls NOWN- To isolate the collector refuelling and defuelling the refuelling/defuelling the refuelling main spar. Adjacent to flow proporting the main spar. Gained through the hinged inner wing - 48 screws.	MANUFACTURER General Controls NOWN- To isolate the collector tank transfer 1: refuelling and defuelling and to direct in the refuelling/defuelling line. Adjacent to flow proportioners on the free the main spar. Gained through the hinged door in undersing inner wing - 48 screws. UNRE Insert the four attachment bolts. Connect two "Wig-o-Flex" couplings.	NOWN- ESTIMATED- 500 hours To isolate the collector tank transfer line during refuelling and defuelling and to direct fuel throug the refuelling/defuelling line. Adjacent to flow proportioners on the front face of the main spar. Gained through the hinged door in underside of inner wing - 48 screws. OURE Insert the four attachment bolts. Connect two "Wig-o-Flex" couplings. Connect door link.

INSPECT	ION							MEN	X MINUTES
		Check oper Check link Check for	age for we	valve. ear and co	rrect adju	stment.			
FUNCTIO	NAL CHEC	KS						MEN	X MINUTES
GROUND	HANDLING	S AND GRO	UND TEST	EQUIPMEN	Т				
SPECIAL	TOOLS TO	REMOVE O	R SERVICE						
		"Wig-o-Fle	ex" tools.						
REMARKS	5					7_3			
		The valve	is operate	ed by the	refuelling	access do	oor.		
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SYSTEM	SUB-SYSTEM		COMPOR	NENT	REF. NO.
FUEL SYSTEM		1	Valve - Refuell	ing Shut-off	16-27
AVRO PART NO. 7-1600-11	MANUFACTURER Schulz		355-1-2	AIRCRAFT E	
OVERHAUL LIFE: KNO	WN-	EST	TIMATED- 500	hours	
FUNCTION	To control the a tank during pres			respective	
LOCATION	Inside No's 3,	4, 6, 7 a	nd 8 tanks.		
ACCESS	Accessible throu inner wing. No. 3 tank - out No. 4 tank - out No's. 6, 7 and 8 29 screws each.	board acc	ess panel - 62 ess panel - 58	skin of screws.	N X MINUTE
REPLACEMENT PROCEDUI	Insert the four Connect the "Wig Connect two 1/4 Connect the bond Connect the elec Refuel the aircr	inch serving jumpe trical le	coupling. o bleed lines. r. ed.	МЕ	N X MINUTE:
	Interchangeable	component			

INSPECT	ION						MEN	X MINUTES
FUNCTIO	NAL CHECK	(S				 	MEN	X MINUTES
GROUND	HANDLING	AND GRO	UND TEST	FOLUBATA	T	 		
CROONE	TANDLING	AND ONO	OND TEST	LQOII WEI				
SPECIAL	TOOLS TO	REMOVE O	R SERVICE					
		"Wig-o-Fle	ex* tools.					
REMARKS	5							
lu L.								
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SYSTEM	SUB-SYSTEM		COMPON	NENT	REF. NO
FUEL SYSTEM			Valve - Two Wa	y Shut-off	16-28
AVRO PART NO. 7-1600-37	MANUFACTURER Schulz	MAN'F	R'S PART NO.	AIRCRAFT I	EFFECTIVIT
OVERHAUL LIFE: KNOV	VN-	ES	TIMATED- 500) hours	
FUNCTION					
	full.	rse flow	as each collecto		nes
LOCATION					
	Inside each col	lector ta	nk.		
ACCESS				м	EN X MINUTE
	Gained through of each collect				
REPLACEMENT PROCEDUR	E			М	EN X MINUTE
	Position the va attachment bolt Attach one elec Connect two lev Connect the "Wi Refuel the airc	s. trical co el sensir g-o-Flex"	ng pipelines.		
	Interchangeable	componer	nt.		

INSPECTION	MEN X MINUTES
FUNCTIONAL CHECKS	MEN X MINUTES
GROUND HANDLING AND GROUND TEST EQUIPMENT	
SPECIAL TOOLS TO REMOVE OR SERVICE	
"Wig-o-Flex" tools.	
MIG-0-LIGX. COOLS.	
REMARKS	
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SYSTEM					
	SUB-SYSTEM		COMPON		REF. N
FUEL SYSTEM		V	alve - Two Wa and By-pass		16-2
AVRO PART NO.	MANUFACTURER	MAN'F'R'S	PART NO.	AIRCRAFT	EFFECTIV
7-1656-121	Schulz	7-35	5-1	25201	
OVERHAUL LIFE: KNO	-NWC	ESTIMA	TED- 500 H	nours	
FUNCTION	Admits fuel to a control of the t Permits flow in transfer from the in the event of	ank level se the reverse e tank to by	nsing valve. direction to -pass the tra	allow fuel	e
LOCATION	Duct bay - mount	ed on bulkhe	ad at Sta. 47	78.00.	
ACCESS				м	IEN X MINU
	Accessible throu 74 camlocs.	gh electrics	access door	•	
REPLACEMENT PROCEDU	RE			м	EN X MINU
REPLACEMENT PROCEDU	Locate the valve secure the four Attach the three ings and the fue Connect the bond Assemble the two Connect one elec Refuel the aircr	attachment n 1-3/4 inch 1 transfer p ing jumpers. servo bleed trical conne	uts. "Wig-o-Flex" ipe section.	g and	EN X MINU
REPLACEMENT PROCEDU	Locate the valve secure the four Attach the three ings and the fue Connect the bond Assemble the two Connect one elec	attachment n 1-3/4 inch 1 transfer p ing jumpers. servo bleed trical conne	uts. "Wig-o-Flex" ipe section.	g and	EN X MINU
REPLACEMENT PROCEDU	Locate the valve secure the four Attach the three ings and the fue Connect the bond Assemble the two Connect one elec Refuel the aircr	attachment n 1-3/4 inch 1 transfer p ing jumpers. servo bleed trical conne	uts. "Wig-o-Flex" ipe section.	g and	EN X MINU
REPLACEMENT PROCEDU	Locate the valve secure the four Attach the three ings and the fue Connect the bond Assemble the two Connect one elec Refuel the aircr	attachment n 1-3/4 inch 1 transfer p ing jumpers. servo bleed trical conne	uts. "Wig-o-Flex" ipe section.	g and	EN X MINU

INSPECT	ION							MEN X	MINUTES
		Check for	security,	corrosion	, damage a	and leakage	e.		
FUNCTIO	NAL CHEC	KS						MEN X	MINUTES
GROUND	HANDLING	G AND GRO	UND TEST	EQUIPMEN	Т				
		Electric g Refuelling B4 stand.	round power tender.	er unit.					
SPECIAL	TOOLS TO	REMOVE O	R SERVICE						
		"Wig-o-Fle	x ⁿ tools.						
REMARKS	6						0.		
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SYSTEM	CUD CVCTCM		COMPON	ICNIT	REF. NO.
	SUB-SYSTEM				
FUEL SYSTEM			Valve - Level	Sensing	16-30
AVRO PART NO.	MANUFACTURER	MAN'F	R'S PART NO.	AIRCRAFT	EFFECTIVIT
7-1600-12	Schulz	2	2-355-1	2520)1
OVERHAUL LIFE: KNO	WN-	ES	TIMATED- 500 1	hours	
FUNCTION	100 000 000 000				
	To operate tank f	uel shut	off valves.		
LOCATION					
	Inside each fuel	tank.			
ACCESS	Wing - Cained thr	ough pane	el in top skin o	f h	MEN X MINUTE
	inner wing - 29 t according to loca Fuselage - Remove tank - six latche Remove tank acces least one fuselag	tion. dorsal des. s panel •	fairing over fus	elage	
REPLACEMENT PROCEDU	RE			N	MEN X MINUTE
	Insert the four a Connect two 1/2 i Connect one elect Refuel the aircra	nch level rical com	L sensing lines.		
	Interchangeable c	omponent.	•		

						 		_	
INSPECT	ION						М	IEN X	MINUTES
FUNCTIO	NAL CHECK	KS					м	1EN X	MINUTES
GROUND	HANDLING	AND GRO	UND TEST	FOLIPMEN	т				
				oower unit					
		Refuellin B4 stand.	g tender.						
		Wing prot	ection mat	S.					
SPECIAL	TOOLS TO	REMOVE O	R SERVICE						
REMARKS	5								
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	1711 17		
SYSTEM	SUB-SYSTEM	СОМРО	NENT REF. NO.
FUEL SYSTEM		Valve - Fuel sate Drain (F	and Conden- uselage Tanks) 16-31
AVRO PART NO.	MANUFACTURER	MAN'F'R'S PART NO.	AIRCRAFT EFFECTIVITY
7-1656-8	Auto Valve Inc.	1550-B	25201
OVERHAUL LIFE: KNO	OWN-	ESTIMATED- 500	hours
FUNCTION	To provide e mo	ens of draining condensa	to from a
	fuel cell.	and of digitaling condomina	oo 110m a
LOCATION	Rottom skin of	fuselage - Sta. 388.	
	DO O O O O O O O	rabotago coar your	
ACCESS			MEN X MINUTE
	Flush with fuse	lage bottom skin.	
REPLACEMENT PROCEDL	JRE		MEN X MINUTE:
	Position valve :	in housing.	
	Position valve : Fit the snap ri	in housing. ng.	
	Position valve : Fit the snap rin	ng.	
	Fit the snap ri	ng.	
	Fit the snap ri	ng.	
	Fit the snap ri	ng.	
	Fit the snap ri	ng.	
	Fit the snap ri	ng.	
	Fit the snap ri	ng.	
	Fit the snap ri	ng.	

INSPECTION						MEN X	MEN X MINUTES			
			n condensek for sign		e leakage					
FUNCTIONAL CHECKS							MEN X	MEN X MINUTES		
GROUND HANDLING AND GROUND TEST EQUIPMENT										
SPECIAL TOOLS TO REMOVE OR SERVICE										
.25 inch O.D. push tube six inches in length.										
REMARK	S									
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