Classification cancelled/changed to

by authority of \_\_\_\_\_(date) 3 Mar 59

ELECTRIBAINAYSTEM

ENGINE SERVICES

Section 25.

FILE IN VAULT

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MAY 24 1995

ANNEXE J. H. PARKIN CNRC - ICIST

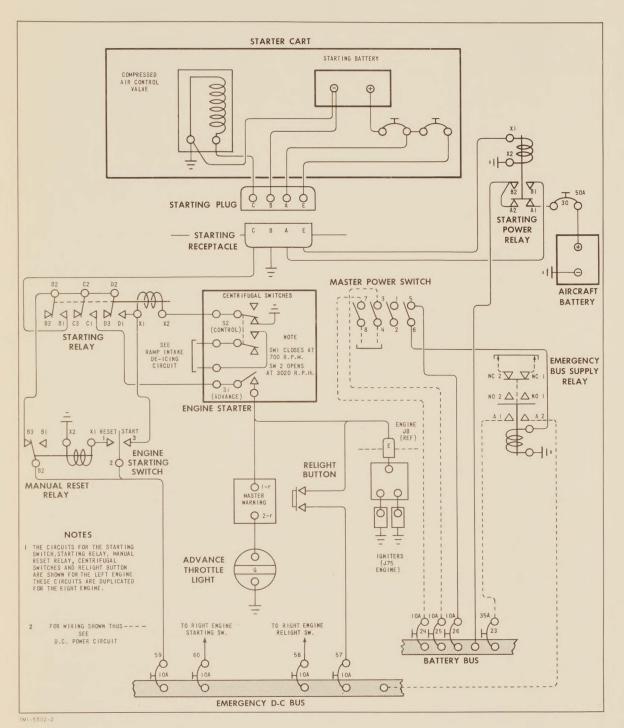


FIG. 1 ENGINE STARTING AND IGNITION SCHEMATIC

#### SYSTEM DATA SHEET

SYSTEM	SUB-SYSTEM	AIRCRAFT EFF'TY	REF. NO.
ELECTRIC AL	ENGINE SERVICES	25201	11-2

#### DESCRIPTION

#### General

1. The electrical circuits of the engine services include instrument circuits, warning circuits, engine starting control, ignition and relight circuits. Electrically identical circuits are provided for each engine.

### Engine Starting and Ignition

- 2. The engines are started by compressed air supplied from a mobile starter cart. The starting cycle is initiated and controlled by electrical circuits which are actuated by switches located in the front cockpit.
- 3. Interconnection between the starter cart and the aircraft is by a cable which plugs into a starting receptacle located in the underside of the fuselage between stations 489.90 and 494.80. The starter plug incorporates a lanyard type quick-release to prevent unnecessary delay in take-off after the engines have been started.
- 4. The starter cable consists of the starting control circuit wiring for two compressed air control valves, an interphone line and two battery powered d=c supply circuits. The interphone line permits intercommunication between the aircrew and the ground crew and the reception of telescramble communications from the operations control centre. The d=c supply circuits are used to supply power to the battery bus in lieu of the aircraft battery. When the starting cable plug is connected to the starting receptacle, the aircraft starting power relay is energized. This action isolates the aircraft battery and transfers the battery bus load onto the external battery.
- $5_{ullet}$  The starting circuits permit the engines to be started singly or simultaneously and facilitate interrupting the starting cycle.
- 6. The starting cycle is initiated by selecting the engine starting switch to the START position. This completes a supply circuit from the emergency d-c bus to the starting relay. The ground return for the starting relay is completed through a centrifugal control switch fitted on the engine starter. The starting relay, when energized, completes the following three circuits:
- (a) A self-holding circuit which is operative until the engines are started or the starting cycle is interrupted.
- (b) A supply circuit which opens the compressed air control valve on the starter cart.
- (c) A preparatory supply circuit to a centrifugal advance switch fitted on the engine starter.
- 7. When the engine starter switch is released, the supply circuit for the engine starting relay is maintained through the relay open contacts of a manual reset relay.

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- 8. The advance centrifugal awitch closes when the starter attains 700 rpm. This action completes the preparatory supply circuit from the starting relay to an advance throttle light and to the engine sparkigniters. The LH and RH advance throttle lights are coloured green and are located on the main instrument panel.
- 9. The control centrifugal switch opens when the starter attains 3020 rpm. This action renders the starting circuits inoperative by interrupting the self-holding ground return circuit of the starting relay which interrupts the supply to the advance centrifugal switch and to the compressed air control valve.
- 10. If the engine fails to start, the starting cycle can be interrupted by selecting the RESET position on the engine starting switch. This selection energizes the manual reset relay which interrupts the power supply to the starting relay.

### Relighting

ll. A push-button relight switch is fitted on each power lever. When either switch is depressed, a circuit is completed from the emergency d-c bus to the relevant LH or RH engine sparkigniters.

### Exhaust Gas Temperature Indication

12. Exhaust gas temperature indication for each engine is provided by two separate self-exciting chromel-alumel thermo-couple circuita. Each circuit consists of a transistorized indicator actuated by four parallel-connected thermo-couples located on the turbine discharge shroud ring of the engine. The indicators derive a 115 volts a-c supply from "A" phase of the primary bus bars and incorporate a red warning flag which is visible when the power is off.

#### Pressure Ratio Indication

13. The pressure ratio between the engine air intake and the turbine discharge outlet is utilized by the pressure ratio indication systems to provide a measure of thrust being developed by each engine. Each system consists of a ratio indicator, or ratiometer, located on the main instrument panel in the front cockpit, and a pressure ratio transducer located on the engine. Pressure indications, taken from the engine air intake and the turbine discharge outlet, are transformed into an electrical signal by the pressure ratio transducer and transmitted to the ratio indicator. The system derives a 115 volts a-c supply from \*A\* phase of the primary bus bars.

#### Oil Pressure Warning

14. An OIL PRESS warning light for each engine is fitted on the master warning system indicator panel. The lights illuminate if the relevant IH or RH engine oil pressure drops below 25 psi. Each warning light is controlled by a pressure switch mounted on the LH side of the corresponding engine gear box. Both circuits derive their power supply from the emergency d-c bus via the master warning control unit.

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#### SYSTEM DATA SHEET

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### Engine Inlet Fuel Pressure Warning

15. An ENGINE FUEL PRESS warning light for each engine is fitted on the master warning system indicator panel. The lights illuminate if the relevant LH or RH engine inlet fuel pressure drops below 18 psia. Each warning light is controlled by a pressure switch tapped into the corresponding engine fuel inlet line at station 589 of the fuselage which is downatream from the low pressure cock. Both circuits derive their power supply from the emergency d-c bus via the master warning control unit.

### Afterburner Operation

16. The afterburner is brought into operation by advancing the power lever to the afterburner range and then depressing the lever. This action energizes the afterburner relay which completes circuits to initiate the operation of the afterburner hydromechanical unit and open the fuel-to-oil heat exchanger valve. The hydro-mechanical unit provides fuel to the afterburner igniters and fuel nozzles and opens the afterburner discharge nozzle. The fuel-to-oil heat exchanger valve, when open, permits engine oil to pass through the heat exchanger. A power supply for both circuits is derived from the main d-c bus.

#### Zone 1 Ejector

- 17. The zone l ejector is fitted to assist in engine cooling at low airspeeds and when ground running.
- 18. The system consists of a differential pressure switch which controls an ejector valve actuator. The pressure switch is acted upon by the engine air intake pressure and atmospheric pressure. When the air intake pressure decreases to a certain limit below atmospheric pressure, the pressure switch closes. This action completes a supply circuit to the ejector valve actuator which opens the ejector valve. The ejector valve is fitted in the bleed line from the high pressure compressor and air is ejected to atmosphere through zone 1 of the engine bay. The system derives a power supply from the main dec bus.

#### Low Pressure Compressor Overapeed Indicator

19. A LOW ROTOR OVERSPEED warning light for each engine is fitted on the master warning system indicator panel. Illumination of a light denotes failure of the corresponding engine low pressure compressor speed limiter. Both circuits derive their power supply from the main d=c bus via the master warning control unit.

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SYSTEM					JENT	REF. NO
SISIEM		SUB-SYSTEM		COMPON	<b>1</b>	
ELECTRICAL	,	ENGINE SERVIC	ES	Engine Start		11-2-1
AVRO PART NO.		MANUFACTURER	MAN'F	'R'S PART NO.	AIRCRAFT E	FFECTIVIT
		Cutler-Hammer	8812	K13	2520	01
OVERHAUL LIFE:	KNOW	/N-	ES	TIMATED- 1500 h	ours	
FUNCTION	interro	rgize the engine start upt the starting cycle for the LH engine sta ng relay.	. Indiv	idual switches a	re	
LOCATION	In from	nt cockpit, RH console	on pane	1 El6.		
ACCESS					Ma	EN X MINUTE
	RH con	ructed, when panel El6 sole.	is remo	ved from the		
REPLACEMENT PRO	OCEDURI	Ξ			МЕ	:N X МІ <b>Р</b> ИТЕ

INSPECTION	MEN X MINUTES
Operate the switches and check that the lever action is smooth and that the make and break is not sluggish or rough.	
FUNCTIONAL CHECKS	MEN X MINUTES
GROUND HANDLING AND GROUND TEST EQUIPMENT	
SPECIAL TOOLS TO REMOVE OR SERVICE	
REMARKS	
ISSUE 1	
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SYSTEM		SUB-SYSTEM		COMPON	NENT	REF. NO
ELECTRICAL		ENGINE SERVIC	ES	Starting Relays	- LH and RH	11-2-2
AVRO PART NO.		MANUFACTURER		'R'S PART NO. \$25024-1	AIRCRAFT E	
OVERHAUL LIFE:	KNOW	N-	ES.	TIMATED- 1500	hours	
FUNCTION	cart co	lete the starter circ mpressed air control on of their respectiv	valve.	The relays contr		
LOCATION		cessories Panel E5 wh	nich is f	itted on the arm	ament bay	
ACCESS					М	EN X MINUTI
		s forward mounts by 1	removing	two bib bins.		
REPLACEMENT PRO	CEDURE				ME	EN X MINUTE
	screws. Fit and	secure the circuit wand position Panel E5,	viring to	the relay termi	nala.	

INSPECTI	ON							MEN X	MINUTES
			Check t	hat the c	elays are sircuit consoling and see	nections t	o the		
FUNCTIO	NAL CHECK	(S						MEN X	MINUTES
GROUND	HANDLING	AND GRO	OUND TEST	EQUIPMEN	IT				
SPECIAL	TOOLS TO	REMOVE C	R SERVICE						
REMARKS	6								
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					ICAIT	REF. N
SYSTEM		SUB-SYSTEM		COMPO	VENT	IXLI . IN
ELECTRICAL		ENGINE SERVICE	ES	Manual Reaet LH and RH		11-2-3
AVRO PART NO. CSR-133		MANUFACTURER	MAN'F	"R'S PART NO.		T EFFECTIVE
OVERHAUL LIFE:	KNOW	N-	ES	TIMATED- 1500	hours	
FUNCTION	engine	ergized, by selecting starting switch, inte ngine starting cycle.	errupta t			
LOCATION		cessories Panel E5 wh	nich is f	itted on the arm	ament bay	
ACCESS		7				MEN X MINUT
	TIOM IO	s forward mounts by	GHOATHE	AMO bib bille.		
REPLACEMENT PRO	OCEDURE		/ T			MEN X MINUT
REPLACEMENT PRO	Fit and screws.	aecure the relay to secure the circuit vand position the panel	viring to	the relay termi	nals.	MEN X MINUT

INSPECTION	MEN X MINUTES
Check that the relays are securely fitted. Check that the circuit connections to the relays are securely and properly fitted.	
FUNCTIONAL CHECKS	MEN X MINUTES
GROUND HANDLING AND GROUND TEST EQUIPMENT	,
SPECIAL TOOLS TO REMOVE OR SERVICE	
SPECIAL TOOLS TO REMOVE OR SERVICE	
REMARKS	
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SYSTEM ELECTRICAL		SUB-SYSTEM ENGINE SERVI		COMPON Starting Po		REF. NO.	
AVRO PART NO. CS-R-128		MANUFACTURER MAN'F		TR'S PART NO. AIRCR.		AFT EFFECTIVITY	
OVERHAUL LIFE:	KNOWI	٧-	EST	TIMATED- 1500	hours	· · · · · · · · · · · · · · · · · · ·	
FUNCTION	emerge	ers the battery bus ncy bus load from th al supply.	load and, e aircraf	consequently, to the	che		
LOCATION		panel E6 which is fi- heel well.	tted on t	he roof of the			
ACCESS					МЕ	EN X MINUTE	
	Unobst	ructed, when the cove	er of rel	ay panel E6 is			
REPLACEMENT PROC	EDURE				МЕ	EN X MINUTES	
	mounti	d secure the relay to ng screws. d secure the circuit als.					

INSPECTION				MEN X	MINUTES
	Check that the rela Check that the circ relay are securely	cuit connections t	to the		
FUNCTIONAL CHECKS				MEN X	MINUTES
GROUND HANDLING AND GROUND	D TEST EQUIPMENT	·			
SPECIAL TOOLS TO REMOVE OR S	ERVICE				
REMARKS		)."			
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		SUB-SYSTEM	i			REF. NO
SYSTEM		30B-3131EN		COMPON	VENI	
ELECTRICAL		ENGINE SERVICE	ES	Relight Switch - LH and RH		11-2-5
AVRO PART NO.		MANUFACTURER	MAN'F	"R'S PART NO.	AIRCRAFT E	FFECTIVIT
CS-S-151					2520	01
OVERHAUL LIFE:	KNOWI	V-	ES	TIMATED- 1500 h	ours	
FUNCTION						
	To faci	litate engine religh	t.			
LOCATION	LH engi RH engi	ne relight switch lo	cated on cated on	LH engine power RH engine power	lever.	
ACCESS					ME	N X MINUTE
	T					
	four sc	the access plate on rews.	the side	of power lever -		
REPLACEMENT PRO	four sc	rews.	the side	of power lever -		N X MINUTE
REPLACEMENT PRO	DCEDURE  Draw the solder Fit and lock wa	rews.	of the poals. o the pow	wer lever and	ME ne	N X MINUTE
REPLACEMENT PRO	DCEDURE  Draw the solder Fit and lock wa	e circuit wires out to the switch termin secure the switch t sher and nut supplie	of the poals. o the pow	wer lever and	ME ne	N X MINUTE
REPLACEMENT PRO	DCEDURE  Draw the solder Fit and lock wa	e circuit wires out to the switch termin secure the switch t sher and nut supplie	of the poals. o the pow	wer lever and	ME ne	N X MINUTE
REPLACEMENT PRO	DCEDURE  Draw the solder Fit and lock wa	e circuit wires out to the switch termin secure the switch t sher and nut supplie	of the poals. o the pow	wer lever and	ME ne	N X MINUTE
REPLACEMENT PRO	DCEDURE  Draw the solder Fit and lock wa	e circuit wires out to the switch termin secure the switch t sher and nut supplie	of the poals. o the pow	wer lever and	ME ne	N X MINUTE

INSPECTI	ION							1	MEN X	MINUTES
			properl	that the c ly and sec a the swit rough.	urely.		ldered			
FUNCTIO	NAL CHECK	(S				<u></u>			MEN X	MINUTES
GROUND	HANDLING	AND GRO	UND TEST	EQUIPMEN	Т					
<u> </u>										
SPECIAL	TOOLS TO	REMOVE O	R SERVICE							
REMARKS	5									
ISSUE	1									
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SYSTEM		SUB-SYSTEM		COMPON	NENT	REF. NO.	
ELECTRICAL		ENGINE SERVICE	es	External Starti	ing optacle	11-2-6	
AVRO PART NO. 105-0-142	Alb	MANUFACTURER ert & J.M. Anderson	MAN'F'R'S PART NO. AIRCRAFT EFFECTIVE 25201				
OVERHAUL LIFE:	KNOWN	<b>V</b>	ES	TIMATED- 1500	hours		
FUNCTION	and th	ilitate interconnect: e aircraft. Intercon y supply, starting co	nected o	ircuits include			
LOCATION	Unders	ide of the fuselage h	oetween s	tations 489.90		***************************************	
ACCESS			1 22 2		N	IEN X MINUTE	
	to rec	f receptacle unobstrueptacle are accessible - 44 camlocs.					
REPLACEMENT PROC	CEDURE				M	IEN X MINUTE	
	four serit and Fit the	d secure the receptace crews.  d secure circuit wirise terminal cover - for the access panel - 44	ing to th	e terminal conne			
3913-2-5							

INSPECT	ION	MEN X MINUTES
	Inspect receptacle for signs of arcing or pitting of the contacts.  Check that the receptacle is securely mounted.	
FUNCTIO	NAL 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
ELECTRICAL	ENGINE SERVICE	ES	Exhaust Ga Temperature In		11-2-7
AVRO PART NO. 7-1252-13	MANUFACTURER Minneapolis-Honeywell	MAN'F'F	R'S PART NO.	AIRCRAFT E 25201	
OVERHAUL LIFE: KN	OWN-	EST	IMATED- 1500 h	nours	
FUNCTION	indicate in degrees C the	e turbine	outlet temperat	cure.	
LOCATION	nt cockpit, main instrum	ent panel.			*****
ACCESS				МЕ	EN X MINUTE
Uno	bstructed.				
REPLACEMENT PROCED	URF			ME	N X MINUTE
Fit Loc	and secure the electric ate the indicator in the secure - two screws.	al connect	tor. trument panel		

INSPECTION	MEN X	MINUTES
Check that the instrument is securely mounted. Check that the electrical connector is securely and properly fitted.		
FUNCTIONAL CHECKS	MEN X	MINUTES
GROUND HANDLING AND GROUND TEST EQUIPMENT		
SPECIAL TOOLS TO REMOVE OR SERVICE		7
REMARKS		
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SYSTEM ELECTRICAL		SUB-SYSTEM ENGINE SERVIC		COMPON Ratiometer, Eng	ine Pressure	REF. NO.
				- LH and R	H	
AVRO PART NO. 7-1252-16	Min	MANUFACTURER neapolis-Honeywell	MAN'F	r'R'S PART NO.	AIRCRAFT E	FFECTIVITY
OVERHAUL LIFE:	KNOWN	1-	ES	TIMATED- 350 1	hours	
FUNCTION	transd	nsform electrical si ucer into an indicat which is a measure o gine.	ion of t	he engine pressur	re	
LOCATION	Front	cockpit, main instru	ment pan	91.		
ACCESS		*****			МЕ	N X MINUTE
	Unobst	ructed.				
REPLACEMENT PROC	CEDURE		*****		ME	N X MINUTE
	Locate	d secure the electri the indicator in th cure - two screws.				
3423-2-5		****				

INSPECTI	ON								MEN X	MINUTES
			Check	that the i that the e ly and pro	lectrical	connector	ly mounted is	•		
FUNCTIO	NAL CHECK	(S							MEN X	MINUTES
GROUND	HANDLING	AND GRO	UND TEST	EQUIPMEN	Т					
SPECIAL	TOOLS TO	REMOVE O	R SERVICE							
REMARKS	5									
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				,		,
SYSTEM		SUB-SYSTEM		COMPON	NENT	REF. NO
ELECTRICAL		ENGINE SERVICE	S	Pressure Rati LH and		11-2-9
AVRO PART NO.		MANUFACTURER	MAN'F	'R'S PART NO.	AIRCRAFT	EFFECTIVIT
7-0325-22		AiResearch	3	7655	2520	)1
OVERHAUL LIFE:	KNOW	N-	ES	TIMATED- 350	hours	
FUNCTION	taken foutlet	clve, as an electrical from the engine air in and transmit the resu cockpit.	ntake and	the turbine dis	charge	
LOCATION	Station	n 664 inside the fuse	lage LH s	and RH.		
ACCESS					М	EN X MINUT
		n 665 - 26 screws.				
REPLACEMENT PRO	CEDURE				МІ	EN X MINUTE
	mounting Fit and	d secure the unit to ang screws. It secure two pipe line It secure the electrical	es.			
					ļ	

INSPECT	ION							MEN	X MINUTES
			Check proper Check	that the u that the p ly fitted. that the e ly and pro	ipe lines	are secur	ely and		
FUNCTIO	NAL CHECK	KS						MEN	X MINUTES
					_				
GROUND	HANDLING	AND GRO	OUND TEST	EQUIPMEN	Т				
SPECIAL	TOOLS TO	REMOVE O	R SERVICE						
	_			1 - 1			1-	Line	
REMARKS	5								
				*					
7.									
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7#1-3413-2-6

						1	REF. NO
SYSTEM		SUB-SYSTEM		COMPONENT Pressure Switch Frein		-	
ELECTRICAL		ENGINE SERVIC	ES	Pressure Switch, Engi Oil - LH and RH		3	11-2-10
AVRO PART NO.		MANUFACTURER	MAN'F	'R'S PART NO.	AIRCRAF	T EFF	ECTIVIT
7-1195-13	į	Century Electronics c/o Garrett			2	25201	
OVERHAUL LIFE:	KNOWI	V-	ES	TIMATED- 500 1	nours		
FUNCTION		olete a supply circui oil pressure drops b					
LOCATION	Mounted oil pre	on the engine gear ssure relief valve.	box adjac	cent to the			
ACCESS				too teen and the		MEN )	X MINUTE
		ble through the from					
		ble through the from - seven latches and					
REPLACEMENT PRO	engine	- seven latches and				MEN >	X MINUTE
REPLACEMENT PRO	OCEDURE Screw t fit and Fit and	- seven latches and	30 camloo	ount and then		MEN >	X MINUTE
REPLACEMENT PRO	OCEDURE Screw t fit and Fit and	the switch onto the activation secure the locknut.	30 camloo	ount and then		MEN >	X MINUTE

	N				MEN X	MINUTES
		Check that the uni Check that the ele oil line are secur	ctrical connector	and the		
FUNCTION	IAL CHECKS				MEN X	MINUTES
SPECIAL T	FOOLS TO REMOVE OF	R SERVICE				
REMARKS						
REMARKS						
REMARKS						
REMARKS	1					

		SUB-SYSTEM		COMPON		REF. NO.
ELECTRICAL		ENGINE SERVICES		Pressure Switch Inlet Fuel - I		11-2-11
AVRO PART NO.		MANUFACTURER	MAN'F	R'S PART NO.	AIRCRAFT E	EFFECTIVITY
7-1656-51	F	ydra Electric			252	201
OVERHAUL LIFE:	KNOW	٧-	ES	TIMATED- 500 h	nours	
FUNCTION	if the	plete a supply circui engine inlet fuel pr f 18 psia.				
LOCATION	Inside on the exchange	the fuselage at stat base of a fitting at er.	ion 589, the outl	LH and RH, mount et of the heat	ed	
ACCESS					ME	EN X MINUTE
	fastene	rs.				
REPLACEMENT PRO	CEDURE				ME	EN X MINUTE

INSPECTI	ON							ME	NX	MINUTES
			Check t	that the u	nit is sec	urely and	properly			
			fitted. Check t	that the p	ressure li	ne and the	e electric	al		
			connect	tor are se	curely and	properly	fitted.			
FUNCTIO	NAL CHECK	(S						ME	NX	MINUTES
GROUND	HANDLING	AND GRO	UND TEST	EQUIPMEN	т					
SPECIAL	TOOLS TO	REMOVE O	R SERVICE							
			11 1							
REMARKS	5									
ISSUE	7									
	1									
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## COMPONENT DATA SHEET

CVCTEM						
SYSTEM		SUB-SYSTEM		COMPON	NENT	REF. NO
ELECTRICAL		ENGINE SERVICES	3	Afterburner Mic LH and RI		11-2-12
AVRO PART NO.		MANUFACTURER	MAN'F	"R'S PART NO.	AIRCRAFT E	FFECTIVIT
CS-S-152					2520	1
OVERHAUL LIFE:	KNOWI	V	ES	TIMATED- 500	hours	
FUNCTION	and ope	date the operation of the the fuel-oil heat the afterburner range	exchange			
LOCATION	In the	power lever box, LH	console i	front cockpit.		
ACCESS			£		ME	EN X MINUTE
REPLACEMENT PRO	OCEDURE				МЕ	N X MINUTE
REPLACEMENT PRO	Fit and bracket	secure the micro-sw ; - two bolts and nut ; and secure circuit; terminals.	S.		ME	N X MINUTE
REPLACEMENT PRO	Fit and bracket	secure the micro-sw c - two bolts and nut c and secure circuit	S.		ME	N X MINUTE
REPLACEMENT PRO	Fit and bracket	secure the micro-sw c - two bolts and nut c and secure circuit	S.		ME	N X MINUTE
REPLACEMENT PRO	Fit and bracket	secure the micro-sw c - two bolts and nut c and secure circuit	S.		ME	N X MINUTE

7H1-3413-2-5

INSPECTI	ON						MEN	X MINUTES
		mounted Check t	1.	ircuit wi	ch is secu	rely curely and		
FUNCTIO	NAL CHECKS						MEN	X MINUTES
GROUND	HANDLING AND	GROUND TEST	EQUIPMEN	IT				
SPECIAL	TOOLS TO REMOV	E OR SERVICE						
REMARKS	3							
DATE	1							
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INSPECT	ION							МЕ	EN X	MINUTES
			Check	that the u	nit is se	curely and	properly			
			fitted Check	that the e	lectrical	connector	is secure	ly		
			and pr	operly fit	ted.					
FUNCTIO	NAL CHECK	<s< td=""><td></td><td></td><td></td><td></td><td></td><td>МЕ</td><td>EN X</td><td>MINUTES</td></s<>						МЕ	EN X	MINUTES
CDOUND		AND CDC	NIND TEST		-			_	-	
GROUND	HANDLING	AND GRO	DUND TEST	EQUIPMEN	11					
SPECIAL	TOOLS TO	REMOVE C	R SERVICE							
REMARKS	5									
										941
										- [4]
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SYSTEM		SUB-SYSTEM	M COMPONENT			REF. NO.
ELECTRICAL		ENGINE SERVICE	S	Zone 1 Ejector	Valve - LH	11-2-13
AVRO PART NO.		MANUFACTURER	MAN'F	R'S PART NO.	AIRCRAFT E	FFECTIVITY
7-1895-41		Barber-Colman c/o Rousseau			25201	
OVERHAUL LIFE:	KNOWN	V	ES.	TIMATED- 500 h	ours	
FUNCTION	air fro	trol the supply of enome the engine compart differential pressu	ment. V	alve is controll		
LOCATION	In the	LH engine air bleed	line, st	ation 538.7.		
ACCESS					ME	N X MINUTES
		latches.				
REPLACEMENT PROC	CEDURE				ME	N X MINUTES
	duct, a Locate of the Fit and	the valve in position station 538.7. the two stud screws, valve, in the engine is secure two nuts and the and secure the elections.	incorpor bleed a lockwas	ated in the body ir duct. hers.		

		<u> </u>				
SYSTEM		SUB-SYSTEM		COMPON		REF. NO
ELECTRICAL	1	ENGINE SERVICES		Differential Pressure Switch, Zone 1 Ejecto LH and RH		11-2-14
AVRO PART NO.		MANUFACTURER	MAN'F	'R'S PART NO.	AIRCRAFT E	FFECTIVIT
7-1856-11	Pa	armatic Engineering			252	201
OVERHAUL LIFE:	KNOWI	V-	ES	TIMATED- 1500 1	hours	
FUNCTION	senaing	rol the operation of the pressure differe e and the pressure at	ntial bet	tween atmospheric		
LOCATION	Duct bay	7 at station 557-562,	RH and 1	LH.		
ACCESS					МЕ	EN X MINUTE
		ole by removing the h door - 52 camlocs.	ydraulic	bay		
REPLACEMENT PR	OCEDURE				МЕ	N X MINUTE
	Locate	the pressure switch o	n sta ma			

Check that the unit is securely and properly fitted.  Check that the pressure line and the electrical connector are securely and properly fitted.	MEN X MINUTES
FUNCTIONAL CHECKS	MEN X MINUTES
GROUND HANDLING AND GROUND TEST EQUIPMENT	
SPECIAL TOOLS TO REMOVE OR SERVICE	
REMARKS	
DATE 25 Feb 57	