QCX Auro CF105 71 Maint 11-10



J. H. PARKIN BRANCH

JUIN 8 1995

ANNEXE J. H. PARKIN CNRC-ICIST AVRO

ARROW I

Classification cancelled / Changed to UNCLASS

By authority of AVES

MAINTENANCE INSTRUCTIONS Date 305,456

Signature PRS

Unit / Rank / Appointment AVES S

ELECTRICS - POWER SUPPLIES

71/MAINT 11/10

7 Oct. 57

Prepared

For Maintenance and Reliability

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Section

Approved:

SABrown

Approved:

or Equipment Design Dept.

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Project Designer

Authorized:

ENGINEERING DIVISION, AVRO AIRCRAFT LIMITED, MALTON, ONTARIO

FORM 1749 A



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		M.D.R. M.D.R. M.D.R. M.D.R.	11-E28 11-E28/11 & 45 11-E28/12 11-E28/13 & 46	Relay - A-C Shedding Relay - External Supply L and R	
		M.D.R. M.D.R. M.D.R.	11-E28/33 11-E28/34 11-E28/40 & 41	Relay - External Line Shedding Relay - Transfer Control Relay - Transfer L and R	



M.D.R.	E28/65	Relay - D-C Shedding Cut-Out
M.D.R.	E28/66	Relay - D-C Bus Shedding Control
M.D.R.	E28/83 & 84	Unit - Power Failure Detector L and R
M.D.R.	E47	Panel - Emergency Alternators Limiter
M.D.R.	E139/1 & 2	T.R.U L and R
M.D.R.	E164	Relay - Ground Fault
M.D.R.	E191	Alternator - L and R
M.D.R.	E253	Pack - Emergency Alternator
M.D.R.	E259	Solernoid - Emergency Alternator
M.D.R.	E260	Battery
M.D.R.	E273	Switch - Constant Speed Drive L and R
M.D.R.	E275	Receptacle - External Power
M.D.R.	E163	Relay - Ground Fault





1. DESCRIPTION

1.1 General

- 1.1.1 Electrical power is supplied by two 30 KVA 3-phase alternators mounted on mechanical hydraulic constant speed units, in each engine nose bullet. The constant speed units maintain the output frequency of the alternators at 400 ± 4 CPS. (Steady State). Incorporated in the constant speed unit is a speed sensitive switch, which controls the A-C line relay within a certain frequency range.
- 1.1.2 The alternators operate two independent supply systems, controlled to 115/200 volts A-C. Each system includes a control panel, a fault detection circuit, a fault control circuit and, in the front cockpit, a control switch and failure indicator light.
- 1.1.3 In addition to supply the aircraft A-C services, each alternator supplies a transformer-rectifier unit.

 The output of the transformer-rectifier units operate in parallel and provide 27.5 volts D-C for the D-C services.
- 1.1.4 Both T.R.U. and control panels are mounted in one air conditioned cabinet located aft of the centre section bulkhead.
- 1.1.5 An emergency alternator, driven hydraulically and located in the duct bay L.H. side at approximately Sta. 500, provides a limited A-C supply in the event of failure of both alternators or associated control circuitry.
- 1.1.6 A 24 volts 15 ampere-hour nickel cadmium battery, located in the nose wheel well L.H. side at Sta. 150, supplies certain essential electrical services.
- 1.1.7 In the event of a failure in one system, loads not essential for flight are shed and essential loads are transferred onto the serviceable system. In the event that both A-C and D-C systems fail, the battery and emergency alternator take over and supply certain emergency services.

1.2 Operation of the A-C Supply

- 1.2.1 The A-C portion of each control panel performs the following five functions:
 - 1.2.1.1 Utilizes the initial output of the alternator to provide field excitation during output build-up.
 - 1.2.1.2 Provides field excitation control to maintain an average voltage output across the three phases, by means of a magnetic amplifier circuit.



- 1.2.1.3 Provides field excitation compatible with the load current, by means of a compounding control unit.
- 1.2.1.4 Permits the alternator to be isolated manually or, in case of failure, automatically by means of a field contactor or field shorting circuit. The field contactor is tripped manually when the alternator control switch in the front cockpit is selected to OFF, or automatically when a grounding fault develops in the alternator or an over-voltage condition develops in the alternator output phases.
- 1.2.1.5 Detects over-voltage in the output phases and effects the operation of the field contactor.
- 1.2.2 The 3-phase output of each alternator is supplied via the control panel and a line relay, to the corresponding left or right A,B and C phase bus-bars in the main power panel. The line relays are energized by a supply from the battery via the ON position of the MASTER ELECTRICS switch in the front cockpit and the underspeed switches of the constant speed drive unit.
- 1.2.3 Primary loads (i.e loads essential for flight) are supplied from the primary A-C bus-bars, which under normal conditions are supplied via a transfer relay from the right hand main A-C bus-bars.
- 1.2.4 Secondary loads (i.e loads not essential for flight) are connected to the A-C shedding bus-bars which are supplied via a shedding relay from the left hand A-C bus-bars.
- 1.2.5 If the right hand alternator fails, the failure will be detected by the fault detection circuit, which will cause the fault control circuits to operate. The fault control circuits will trip the isolating circuit, shed the secondary load and transfer the primary load onto the left hand alternator. If the left hand alternator fails no action is taken by the fault control circuits.
- 1.2.6 If an alternator is isolated, its associated transformer rectifier-unit is also isolated. This cuts off the supply to the coil of the D-C bus shedding control relay, which in turn disconnects the D-C shedding bus from the main D-C bus.
- 1.2.7 Failure of the right hand alternator will cause a complete shedding of the following:
 - (a) Right hand main A-C bus-bars,
 - (b) Right de-icing bus-bars.
 - (c) Electronics D-C shedding bus-bar.
 - (d) D-C shedding bus-bar (E28)
 - (e) Forward D-C shedding bus bar
 - (f) Electronics A-C shedding bus-bars (from the left hand system)



- 1.2.8 Simultaneously, the following are transferred to the left hand
 - Primary aft A-C bus-bar (a)
 - Primary forward A-C bus-bars (b)
 - (c) Electronics primary A-C bus-bars.
- 1.2.9 Failure of the left hand alternator will cause a complete shedding of the following:
 - Left hand main A-C bus-bars.
 - Left hand de-icing bus-bars. (b)
 - Electronics A-C shedding bus-bar. (c)
 - D-C shedding bus-bars. (d)
 - Forward D-C shedding bus-bars. (e)
 - Electronics D-C shedding bus-bar.
- 1.2.10 System fault detection consists of a ground fault relay and a power failure detector which detects a failure of any phase.
- 1.2.11 During normal operation of the system, the power failure detector completes the supply circuit for the transfer relay of the fault control circuit. In the event of a fault, the power supply to the transfer relay is interrupted by the action of the power failure detector and is transferred to the power failure indicator warning light in the front cockpit.
- 1.2.12 The ground fault relay detects a ground fault condition in the alternator 3-phase windings and the 3-phase output lines from the alternator through the T.R.U. to the ground fault relay. A sensitive inductive winding controls through rectifiers the action of a relay, which in turn controls the field contactor relay in the T.R.U. This winding is imposed on each phase output line and its ground return and detects any current flow differential in the two wires. Therefore, a ground in any phase will, through the action of this relay, trip the field contactor relay and protect the alternator and associated components..
- 1.2.13 System fault control circuits include a transfer control relay, an A-C shedding relay and an A-C transfer relay. The three relays operate in conjunction when a fault is detected by the power failure detector.
 - 1.2.13.1 Under normal conditions, the transfer control relay is energized by a power supply from the battery bus via the right hand alternator power failure detector. In the energized position, the transfer control relay completes a supply circuit to the A-C shedding relay coil and to the coil of the right hand A-C transfer relay.



- 1.2.13.2 The A-C shedding relay serves as the line relay for the A-C shedding bus, which is fed by the left hand alternator.
- 1.2.13.3 The A-C transfer relay serves as the line relay for the primary A-C bus bars, which are fed by the right hand alternator.
- 1.2.13.4 In the event of the right hand alternator power failure detector detecting a fault, the supply to the transfer control relay is interrupted. In the de-energized position, the transfer control relay interrupts the supply to the A-C shedding relay coil and to the coil of the right hand A-C transfer relay and completes a supply circuit from the left hand alternator power failure detector to the left hand coil of the transfer relay.
- 1.2.14 An OFF-RESET-ON control switch for each system is located in the front cockpit. Selecting this switch to the OFF position trips the field contactor relay and permits the engines to be run without alternator generation.
- 1.2.15 The field contactor is restored to normal operating condition by selecting the control switch to RESET. The control switch must then be selected to the ON position to complete the operating power supply to the ground fault relay and the power failure detector.
- 1.2.16 The indicator lights in the front cockpit provide a warning when the left hand or right hand alternator power failure detector has operated due to a phase failure.

1.3 Operation of the D-C Supply

- 1.3.1 The two transformer-rectifier units incorporated in the transformer-rectifier unit and control panels operate in parallel to provide D-C requirements.
- 1.3.2 The rectified D-C output of both units is supplied to the main D-C bus-bar in the main power panel, E28.
- 1.3.3 Each transformer-rectifier unit draws its A-C input from the relevant left hand or right hand main A-C bus-bar.

 The rated maximum 3-phase line current drawn by each unit is 14 amperes.

 The rated maximum rectified output is 110 amperes at 28.5 volts.





- 1.3.4 Prior to rectification, the A-C input is stepped down by a 3-phase transformer to a value which would provide a rectified output of less than 27.5 volts A-C. This permits voltage regulation to be obtained by inserting a 3-phase booster transformer in series with the stepped down A-C power. The degree of boost is controlled by means of a magnetic amplifier circuit in the primary side of the boost transformer.
- 1.3.5 An isolating circuit in each transformer-rectifier unit serves to disconnect the A-C input in the event of an overvoltage, reverse current or an omormally high input current condition. The isolating circuit is comprised of an isolating relay and a re-set relay.
 - 1.3.5.1 The isolating relay contains five sets of contaets. Four of these sets are normally closed and the other set is normally open. The normally closed contacts complete the 3 phase input supply and a rectified D-C supply to a shedding circuit and a signal relay circuit. The normally open contacts close when the relay is tripped and prepare a return circuit for the re-set relay.
 - 1.3.5.2 The re-set relay latches the isolating relay in the open position, until a pulse is applied from the battery via the re-set switch in the front cockpit.
- 1.3.6 The operation of the shedding circuit relays and the transformer-rectifier signal relays are inter-related.
 - 1.3.6.1 The shedding circuit consists of a D-C shedding cut-out relay and a D-C shedding bus control relay. The left hand transformer-rectifier unit is connected to the coil of the cut-out relay and the right hand transformer-rectifier unit is connected to the contact of the cut-out relay.
 - 1.3.6.2 When both transformer-rectifier units are operating, the left hand unit energizes the cut-out relay, completing the circuit from the right hand unit to the coil of the shedding control relay. The control relay completes the line supply from the main D-C bus to the D-C shedding bus.
 - 1.3.6.3 In the event of one unit failing, the supply to the coil or contact of the cut-out relay will be interrupted. Either condition will effect the de-energizing of the shedding control relay.





- 1.3.6.4 The shedding circuit supply from each unit is also supplied to the corresponding left hand or right hand signal relays.
- 1.3.7 The signal relays, when energized, complete through one leg of each relay, a parallel circuit from the main D-C bus to the operating coil of the reverse current relay which, in the energized position, completes the main D-C supply circuit to the battery and the battery bus. Therefore, in the event of failure of one unit, the reverse current relay will remain energized.
 - 1.3.7.1 If both units fail, the relay interrupts the circuit to prevent the main bus services drawing power from the battery.
 - 1.3.7.2 The signal relays, in the de-energized position, complete supply circuits from the battery bus to the alternator failure indicators in the front cockpit.

1.4 Battery Supply

- 1.4.1 When one or both of the transformer-rectifier units are operating, the battery is charged from the main D-C bus.
- 1.4.2 If both transformer-rectifier units fail, the battery is isolated from the main D-C bus-bar but will continue to supply services connected to the battery and emergency D-C bus-bars. This condition will be indicated by the BATT USE indicator light in the front cockpit.
- 1.4.3 If the MASTER ELECTRICS switch is selected to the OFF position, the battery will supply only those services connected to the battery bus-bar.
- 1.4.4 During engine start, the battery is isolated by a starting power relay. When power is supplied to the engine starting receptacle, the starting power relay is energized, which isolates the battery and transfers the battery bus load to the engine starting source.
- 1.4.5 The emergency D-C bus-bar supplies the following services:
 - Engine starting control circuits.
 - Relight circuits (b)
 - Emergency fuel control circuits (c)
 - (d) Landing gear indication
 - Speed brake solenoid (e)
 - (f) Turn and slip indicator
 - (g) A-C emergency transfer relay
 - Bail-out circuit (h)

 - Emergency alternator solenoid Front and rear cockpit emergency light





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 - 1.3.7.1 If both units fail, the relay interrupts the circuit to prevent the main bus services drawing power from the battery.
 - The signal relays, in the de-energized position, complete 1.3.7.2 supply circuits from the battery bus to the alternator failure indicators in the front cockpit.

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 - Engine starting control circuits.
 - Relight circuits (b)
 - Emergency fuel control circuits (c)
 - (d) Landing gear indication
 - Speed brake solenoid (e)
 - f) Turn and slip indicator
 - (g) A-C emergency transfer relay
 - Bail-out circuit

 - Emergency alternator solenoid Front and rear cockpit emergency light



- (1) Fire detection circuits
- (m) Power supply warning
- 1.4.6 The following services derive power from the battery bus:
 - (a) Fuel shut-off valves
 - (b) Fire protection systems
 - (c) Canopy actuation
 - (d) Alternator supply line relays
 - (e) Power supply reset circuits

1.5 External Supply

- 1.5.1 An external supply receptacle permits an external source of 115/200 volts 3-phase A-C power and 27.5 Volts D-C control to be connected to the aircraft.
- 1.5.2 With the MASTER ELECTRICS switch in the ON position, the D=C supply is completed to the coils of the external line shedding relay and the external supply line relays.
- 1.5.3 The line shedding relay isolates the line relays of the alternator system, thus eliminating the possibility of connecting the aircraft and external supplies to the main A-C bus simultaneously.

2. FUNCTION TESTS

Equipment for interphone communication between the engine man in the cockpit, and the electrician at the electrical power system test unit will be required for the following tests.

2.1 Electrical Power System Test (Engines running)

A functional check of the complete electrical power system should be carried out with the engines running at idling speed. Selection of cockpit switches relevant to these checks should be carried out by the engine mar in the cockpit.

2.1.1 Ground Test Equipment

- (a) Electrical power system test unit
- (b) Engine starting unit
- 2.1.1.1 The electrical power system test unit will facilitate and simplify the electrical power system checks. Located on the front face of the test unit are the following components:
 - (a) D-C voltmeter
 - (b) A-C voltmeter
 - (c) D-C ammeter



2.1.1.1 (continued)

- (d) A-C ammeter
- (e) Frequency meter
- (f) D-C ammeter fuse
- (g) A-C ammeter fuse
- (h) T.R.U. selector switch
- (i) Alternator selector switch
- (j) Phase selector switch
- 2.1.1.2 With the test unit connected to the Λ-C and D-C electrical power systems at the output terminals of both the transformer rectifier units and control panels, the following checks may be carried out:
 - (a) The D-C voltage output which should be 28.5 ±0.5

 Volts at main bus E28 may be checked and adjusted if necessary by means of the D-C control fine adjustment screw on each transformer-rectifer unit.
 - (b) The D-C current output of both transformerrectifier units may be checked for balance, in relation to each other.
 - (c) The frequency of each alternator may be checked by use of the ALT SELECTOR switch.
 - (d) The A-C voltage which should be 115 .5 volts at the main bus E28 may be checked and adjusted if necessary on each power system by means of the A-C CONTROL fine adjustment screw on each transformer-rectifier unit.
 - (e) Single phase Λ -C voltage and current of each system.
 - (f) The A-C and D-C fail warning light operation.
 - (g) Each constant speed drive switch may be checked for drop-out when the appropriate engine is running down.

2.1.2 Preparation for Test

With reference to Figure I and Figure 2, carry out the following:

2.1.2.1 From the right hand T.R.U. and control panel, disconnect the following connections: L1,L2 and L3 from the Λ-C output terminals and the D-C output + connection from the D-C output terminal.



- 2.1.2.2 From the power system test unit, select the cable loom and the wires which are idented R. ALT., T.R.U. and R. T.R.U. D-C respectively and connect these to the right-hand T.R.U. and control panel as follows:
 - (a) Connect the wire L1, L2 and L3 to the respective L1, L2 and L3 A/C output terminals.
 - (b) Connect the wire F2 of the test unit to the field connection F2 on the T.R.U.
 - (c) Connect the wire R.T.R.U. D-C + to the D-C + output terminal.
- 2.1.2.3 The wiring which has been disconnected from the right hand T.R.U. and control panel will be connected to the power system test unit as follows:
 - (a) Connect the wire L1, L2 and L3 to the cable loom R. ALT. T.R.U. terminal block connections L1/1, L2/1 and L3/1 respectively.
 - (b) Connect the wire from the D-C output terminal to the terminal block connection R.T.R.U. D-C.
- 2.1.2.4 The preparation for test of the L.H. T.R.U. and control panel, is the same as that for the R.H. T.R.U. and control panel, except that there is no F2 wire to be connected from the L.H. T.R.U. cable loom.
- 2.1.2.5 Ensure that all current limiters are serviceable and all circuit breakers are set.

2.1.3 R.H. Sub-System Test Procedure

With the engines running at idle speed, carry out the following:

- 2.1.3.1 Ensure that with the LH and RH alternator switches selected to OFF, the D-C FAIL, the L and R ALT FAIL and the BATT USE indicator lights and the amber master warning light are illuminated. (See Maintenance Instructions Report 71/MAINT 11/3 Electrics Master Warning System)
- 2.1.3.2 Have the R.H. ALTERNATOR switch in the cockpit selected to ON and the L.H. switch to OFF.
- 2.1.3.3 Ensure the R ALT FAIL and the BATT USE indicator light go out.



- 2.1.3.4 Select the AITERNATOR selector switch on the test unit to RIGHT alternator.
- 2.1.3.5 Select the T.R.U. selector switch on the test unit to RIGHT T.R.U.
- 2.1.3.6 Select the PHASE SELECTOR switch to A phase and check the A-C current and the A-C voltage. The voltage reading should be 115 .5 volts.
- 2.1.3.7 Select the PHASE SELECTOR switch to B phase and check as in Para 2.1.3.6.
- 2.1.3.8 Select the PHASE SELECTOR switch to C phase and check as in Para 2.1.3.6.
- 2.1.3.9 Check the frequency of the R.H. alternator. This should be 400 ± 4 C.P.S.
- 2.1.3.10 Check the D-C voltage of the R.H.T.R.U. This should be 28.5 +0 volts.

2.1.4 L.H. Sub-System Test Procedure

- 2.1.4.1 Have the L.H. ALTERNATOR switch in the cockpit selected to ON and the R.H. switch selected to OFF.
- 2.1.4.2 Ensure that the R ALT FAIL indicator light comes on and the L ALT FAIL indicator light goes out.
- 2.1.4.3 Carry out the procedures as outlined in the foregoing Paras. 2.1.3.4 to 2.1.3.10, reading 'Left' for 'Right'.

2.1.5 D.C. Load Balance

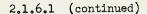
- 2.1.5.1 Have the R.H. ALTERNATOR switch in the cockpit selected to ON position.
- 2.1.5.2 Ensure that the R ALT FAIL, D-C FAIL indicator lights and the amber master warning light go out.
- 2.1.5.3 With the A-C input maintained at 115 volts and 400 C.P.S., select the test unit T.R.U. SELECTOR switch to R. T.R.U. and then L. T.R.U. Note the D-C ampere readings. These should be equal-within 10% of the rated output of one T.R.U.

2.1.6 Constant Speed Drive Switches

Check the operation of the switches as follows:

2.1.6.1 Have the R.H. engine shut off. During engine run-down, ensure that the constant speed drive switch operates





between 375 and 360 C.P.S. decreasing frequency.

2.1.6.2 Repeat the procedure outlined in Para 2.1.6.1, reading L.H. for R.H.

2.1.7 Procedure on Completion of Tests

- 2.1.7.1 Ensure that the MASTER ELECTRICS switch is selected to OFF.
- 2.1.7.2 Disconnect the power system test unit.
- 2.1.7.3 Re-connect the appropriate cables to the L.H. and R.H. T.R.U's and control panels.

2.2 Emergency Alternator Test (Engines not running)

This is a ground functional check of the emergency alternator and its associated hydraulic motor, which should be carried out using the electrical system power test unit, the hydraulic test machine trailer and the engine starting unit (for ground D-C supply)

- 2.2.1 Ensure that the aircraft grounding cable is securely connected between the aircraft and ground.
- 2.2.2 Disconnect the connector from the emergency alternator, and connect it to its mating connector idented EMERG. ALT. 2 from the electrical systems power test unit.
- 2.2.3 Connect to the emergency alternator the connector from the test unit idented EMERG. ALT. 1.
- 2.2.4 Connect the engine starting unit electrically to the aircraft and apply D=C power.
- 2.2.5 Ensure that the circuit breakers L and R ALT CONT. on El circuit breaker panel, are set.
- 2.2.6 Have the GROUND TEST OVERRIDE switch selected and held in the TEST position.
- 2.2.7 Select the MASTER ELECTRICS switch to the ON position.
- 2.2.8 Have the appropriate hydraulic pressure applied and check the frequency reading at the test unit. This should be $400^{\frac{1}{2}}$ 20 C.P.S.



- 2.2.9 Using the PHASE SELECTOR switch on the test unit, check the voltage of each phase. This should be 115 5 volts.
- 2.2.10 Have the GROUND TEST OVERRIDE SWITCH released to the NORMAL position.
- 2.2.11 Select the MASTER ELECTRICS switch to OFF. Disconnect the test unit from the aircraft and re-connect the aircraft cabling connector to the emergency alternator.

3. PERIODIC INSPECTIONS

For periodic inspection requirements, refer to Maintenance Report 71/MAINT 00/2 - Preliminary Maintenance Schedule.





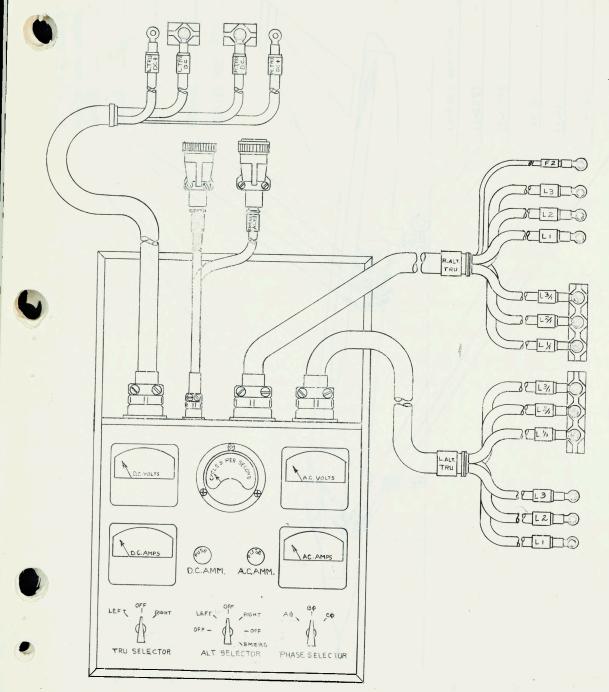


FIGURE 1 : ELECTRICAL SYSTEMS POWER TEST UNIT

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Page 14

MAINTE	NANCE D	ATA RECORD	SYSTEM ELECTRICS	REF. NO.		
AVRO AIRCRAF		Engineering Div.				
ISTRIBUTION: STANDA		A/C TYPE - ARROW 1	COMPONENT			
S. Bro K. Kno		eff. A/C = 25201	Forward Pow Breaker Par			
MANUFACTURER'S PAR	RT NO. N/A		AVRO PART NO.			
MANUFACTURER'S NAM	æ Avro Aircra	ift Ltd.	7-1152-45	;		
AVROCAN SPEC. Nil	E.O. N	40.				
envelope size 19.5	5" x 18.25" x 5	5.75" WEIGHT 30.0 LB.	7-1100-2 7-1152-4	2 Sht. 9		
LOCATION Nose wh	leel well – Sta	a. 129 - 140 L/H	7-1152-4			
termi	ouse circuit br inal strips for control.	reakers, bus bars and r power distribution	REF. M.D.R.			
7760	70.1.0.		RELIABIL	RELIABILITY		
			overhaul Life lywastage Q.T.R. Pending	500 HRS .		
INSPECTION		OPERATION TO BE PERFORME	ED	MEN X MINUTES		
PERIOD				ESI. ACIO.		
Primary	Check panel for security, damage, corrosion and faulty fasteners. Check that all circuit breakers are in set position.			1 x 3		
25 hours	Open panel and check security of circuit breakers, bus bars, connections. Check wiring for chafing and security.			1 x 10		

ACCESSIBILITY

Unobstructed

			·	
1	2	3	4	
April 5/55	April 11/56	Jan. 3/57	Oct. 28/57	
	D. Collingwood	D. Collingwood	K.P. Lowe	
G. Emmerson	G. Emmerson	WO2 Wentworth	WO2 Wentworth	
		R.F. Reid	R.F. Reid	
		C. Wright D. Collingwood	C. Wright D. Collingwood D. Collingwood G. Emmerson G. Emmerson WO2 Wentworth	C. Wright D. Collingwood D. Collingwood K.P. Lowe G. Emmerson G. Emmerson WO2 Wentworth WO2 Wentworth

			LUBRICATI	ON Nil			
APPLICATION	M	ATERIAL	SPECIFICATION	FREQUENCY	A	CCESS	A.
		THENDRO	o contain	39VT D\A	4 6935	KATS HOTEL	
Charle to		week!		- DIA 3143			
fac		Gerall			noslven	A A	
DETAILS:							
			GROUND SUPPORT	EQUIPMENT	CS. DEN ME.	AI ame as	OUNTRO
SPECIAL	TOOLS	FOR AIRCRAFT	USE	SPECIAL TO	OOLS FOR BENC	H USE	
N	il		how states		Nil		
GROU	ND TEST	ING EQUIPMEN	Т	GROUND HA	ANDLING EQUIP	MENT	
100		ETIA PARREV BOATSA E.T.	0	Maintenand	ce Platform	4 G /596	
						MOG DE	
INTERCHANGEABL	EX		TO BE FERFORMED	AULLYBRAD		MEN × N	INUTES
REPLACEABLE	A		REMOVAL IN	STRUCTIONS		EST.	ACTUA
1. D	scon	nect 4 AN c	CONNECTONE TROM T				
3. R	elease	e 6 camloc	rom bottom edge	ng panel to struct bars.		1 x 30	
3. R	elease	e 6 camloc nect power	`rom bottom edge fasteners holdir wiring from bus - Remove and n	of panel hinge. ng panel to struct bars.		1 x 30	
3. R	elease	e 6 camloc nect power	rom bottom edge fasteners holdir wiring from bus - Remove and n	of panel hinge. ng panel to struct bars. replace		1 x 30	
3. R	elease	e 6 camloc nect power	rom bottom edge fasteners holdir wiring from bus - Remove and n	of panel hinge. ng panel to struct bars. replace		1 x 30	
3. R	elease	e 6 camloc nect power	rom bottom edge fasteners holdir wiring from bus - Remove and n	of panel hinge. ng panel to struct bars. replace			Sim S
3. R	elease	e 6 camloc nect power	rom bottom edge fasteners holdir wiring from bus - Remove and n	of panel hinge. ng panel to struct bars. replace	ture.		

ACTUAL

M A	INTENANCE	DATA RECORD	SYSTEM	REF. NO.
AVR	O AIRCRAFT LTD.	Engineering Div.	ELECTRICS	11-E3/15
	ON: STANDARD + S.Brown. K.Knowlton.	A/C TYPE - Arrow 1 EFF. A/C - 25021	COMPONENT Relay - Emergency A-C S	e/
	URER'S PART NO. URER'S NAME EPEC. E.	.o. no.	AVRO PART NO. MS 25024-	1 AMATRO
ENVELOPE	SIZE 2.625" X 2.687"	X3.312" WEIGHT 0.8 LB.	REF. DWGS. 7-1100-3 7-1152-94	
LOCATION	Mounted on Panel E Nose Wheel Well ST.		7-1152-81	
FUNCTION Is energised due to a R.H & L.H power failure & transfers the source of supply for certain essential services from the Fwd A-C Primary			REF. M.D.R.	
	Bus to the emergen	cy alternator.	RELIABIL	ITY
			OVERHAUL LIFE 1500 WASTAGE Q.T.R.	HRS.
INSPEC	TION	OPERATION TO BE PERFORMED		MEN × MINUTES
PERIO	(OD			EST. ACTUA

INSPEC	OPERATION TO BE PERFORMED	MEN X	MINUTES
PERIO	OD CO	EST.	ACTUAL
	REMOVAL INSTRUCTIONS		
		3.10,633	7739
25	Hrs. Function Check (See maintenance instructions report 71/Maint 11/10)	l x 2	
	Discomment electrical commentance		
	Suctive four relay securing screws.		
	Samera and Replace		
	A P SANTAN THEN EAGURE		
	ACCESSIBILITY		
	On E3 Panel		
		12-11-1	
			-
ISSUE	1		
DATE	October 28/57	657	
COMPILED	K.P.Lowe		
CHECKED	WO2.Wentworth.		

		LUBRICATI	on Nil		
APPLICATION	MATERIAL	SPECIFICATION	FREQUENCY	ACCESS	
	- PASSE - TENENSTERS			CEAUMATE MOR	
DETAILS:	15025 01		.000.8	TOWNS WARNES	SANURA CANORA CA
75.205		GROUND SUPPORT	EQUIPMENT	OLS IN TOOLS INDIA	90.17Vs
SPECIAL	TOOLS FOR AIRCRAF	T USE	SPECIAL TOO	LS FOR BENCH USE	
N.	il	mules reales	Nil		
GROUI	ND TESTING EQUIPMEN	NT	GROUND HAI	NDLING EQUIPMENT	
INTERCHANGEABL REPLACEABLE	E	REMOVAL INS	TRUCTIONS	MEN X EST.	MINUTE
		eleven electrics			
			Remove and Repl	ace 1 X 15	

UAL

MAINTENANCE	DATA RECORD	SYSTEM	REF. NO.
AVRO AIRCRAFT LTD.	Engineering Div.	ELECTRICS	11-E6
S.Brown K.Knowlton	A/C TYPE - Arrow I EFF. A/C - 25201	COMPONENT Forward Relay	y Panel
MANUFACTURER'S PART NO. N/A MANUFACTURER'S NAME AVro Air AVROCAN SPEC. Ni]		AVRO PART NO. 7-1152-	-78
	" x 4.0" weight 18.0 ьв.		2 Sht 10 3 Sht 2
FUNCTION To house relays.		REF. M.D.R.	
		RELIABIL	- IT Y
		overhaul Life 1500 wastage Q.T.R. Pending	HRS.

******	rion	OPERATION TO BE PERFORMED			MEN × MINUT		
PERIO	DD	OPERATION	10 BE FERFORMED		EST.	ACTUAL	
	900	18017308	ENI TVAOREN		S.III ASI	Agent	
	Chapl	Com - committee	-laselineae and	damaga	1 X 5		
Primary	Uneck	c panel for security	, cleanliness and	damage.	1 A	1/1/2	
					L. Diebo		
25 hrs.	Remo	ve panel, check rela	vs and wiring for	security and			
-,	damag		twininger syndau	d Larradie Joseph	1 X25	1/4	
						The state of	
					3. Dies		
					white and	Her b	
					S. Redov		
	exill .						
lo.	SXI	ACCESSIBILI	тү				
	Accessible			Replace	1 X 4		
	Accessible	ACCESSIBILI	nt	Replace	1 X 4		
ISSUE	Accessible Guard remo	ACCESSIBILI e with rudder quadra oved 4 Camlocs	nt Remove and F	Replace 4 October 25/57	1 X 4		
ISSUE DATE	Accessible Guard remo	ACCESSIBILI e with rudder quadra oved 4 Camlocs	nt	4 October 25/57 K.P.Lowe	1 X 4		
ISSUE DATE COMPILED	Accessible Guard remo	e with rudder quadratoved 4 Camlocs 2 55 March 8/56	nt Remove and F 3 January 3/57	4 October 25/57	1 X 4		

		LUBRICATIO	on _{Nil}		
PPLICATION	MATERIAL	SPECIFICATION	FREQUENCY	ACCESS	1231111111
La Faura	ed mercu's	1.00	5 - 51 F 445		
ETAILS:	le av		Javieri) djeso	AND SOUTH BRANCHES	CANADICAN
		GROUND SUPPORT	EQUIPMENT	1/1 -2800 1/1 -2800	
SPECIAL TO	OLS FOR AIRCRAFT	USE	SPECIAL TO	OOLS FOR BENCH USE	
И	il and professional and		N	il	ing-eng
GROUND	TESTING EQUIPMENT		GROUND H	ANDLING EQUIPMENT	
A-C Groun	d Power Unit	REMOVAL INS	and the same		MINUTES
REPLACEABLE				EST.	ACTUAL
 Discor Discor Discor 	mect aircraft mect external mect 3 AN conn mect ground co a 8 mounting bo	battery supply we ectors. nnection lts.	Remove and Repl	ace, 1 X 20	0
					1200

MAINTENANCE AVRO AIRCRAFT LTD.	DATA RECORD Engineering Div.	SYSTEM ELECTRICS	REF. NO. 11-E6/5
DISTRIBUTION: STANDARD + S.Brown. K.Knowlton.	A/C TYPE - Arrow 1 EFF. A/C - 25021	COMPONENT RELAY — BATTERY USI	
MANUFACTURER'S PART NO. MANUFACTURER'S NAME AVROCAN SPEC. E	E.O. NO.	AVRO PART NO. CS- R - 122	2
envelope size 2.60" X 2.50" x LOCATION E6 panel Nose Whee STA. 129 - 147		REF. DWGS. 7-1100-3 7-1100-2 7-1152-78	Sht 10.
it completes the E	energised position BATT USE warning light rgised it breaks this	REF. M.D.R. 11 - E6 RELIABIL	LITY
		OVERHAUL LIFE 1500 WASTAGE Q.T.R.	HRS.
INSPECTION	OPERATION TO BE PERFOR	RMED	MEN × MINUTES

INSPECTI	ON OPERATION TO BE PERFORMED	MEN X	MEN X MINUTES	
PERIO	OFERTION TO BE TEXT ON MEET	EST.	ACTUA	
AUFEDA	THE THE PERSON OF THE PERSON O	ST. ITT AND	l lead	
25 h	rs. Function Check (See maintenance instructions report 71/Maint 11/10)	1 x 2		
	securior a electrical intentions	a l		
	Biological Control of the Control of			
	serve 2 misv securing serme.	20 1 1 7		
	lemmas and replace 1 x			
	ACCESSIBILITY			
	On Panel E6	4000		
	on ranor ac	4 7	17	
		W V		
SSUE	1		1	
DATE	October 28/57			
COMPILED	K.P.Lowe.			
	NOO Northwest b			
CHECKED	WO2.Wentworth			



.

		LUBRICATI	on Nil		MALH
PPLICATION	MATERIAL	SPECIFICATION	FREQUENCY	ACCES	S
	- College	Total Park		no.	MOTHER TELE
ETAILS:	CH TWO ON	6		PE PART NO.	MATURACTURE
	0.5 - 1 - 122		Od . G.	SMAN 65	SAMUFACTINAS AVECCAN SPEC
3 076		GROUND SUPPORT		**************************************	HEAD STATES AND A STATE OF STATES AND A STATE AND A STATES AND A STATES AND A STATE AND A
SPECIAI	L TOOLS FOR AIRCRAFT	USE	SPECIAL 1	OOLS FOR BENCH USI	E
	Nil		olong web group	Nil	nL sommer
GRO	UND TESTING EQUIPMENT	r	GROUND H	HANDLING EQUIPMENT	
gain /	GOOD SHEE JUANSAN	9			5- OT 1
	Nil	94 57	Maintenar	nce Platform 4G/	1596.
		GAUSO THOSE AND GOVE	NOPTARE NO.		COL MATICAL CO.
NTERCHANGEAB	LE X	REMOVAL INS	TRUCTIONS		EN × MINUTES
NTERCHANGEAB EPLACEABLE	LE X	REMOVAL INS	TRUCTIONS		EN × MINUTES ST. ACTUAL
	Disconnect 4 ele Remove 2 relay s	ctrical Connecti	in sheets organisation of the state of the s	ES	ST. ACTUAL
	Disconnect 4 ele	ctrical Connecti	ons	ES	ST. ACTUAL
	Disconnect 4 ele	ctrical Connecti	ons Remove and r	ES	ST. ACTUAL
	Disconnect 4 ele	ctrical Connecti	Remove and r	ES	ST. ACTUAL
	Disconnect 4 ele	ctrical Connecti	Remove and r	ES	ST. ACTUAL

	UTENANCE	DATA RECORD	SYSTEM	REF. NO).
			ELECTRICS	11-E6,	/11
	AIRCRAFT LTD.	Engineering Div.	COMPONENT		
	STANDARD +	A/C TYPE - Arrow 1	Relay -		
S.Br	own. owlton	EFF. A/C - 25201	Fwd Ground Control.		
17.1711	O.1. T. DOLL		AVRO PART NO.	-	797
MANUFACTURE			MS 25024-	1	
AVROCAN SPE	C. E.	o. No.			
LOCATION E	E 2.625" X 2.687" 6 panel Nose Whee TA 129 - 147	X 3.312" we юнт 0.8 гв. 1 Well	7-1100-3 Shts.l 7-1100 - 3 sht 7-1152-78	5-6-10 & 5。	2
ci (h)	rcuits concerned	position completes with (a)Emergency Alternator (c)De-icing (d)Fuel valve	REF. M.D.R.		
0.0	Jostian and warni	ng. Its coil circuit is	RELIABIL	IT Y	
co	ontrolled through	the R.H. U/C scissors switch	OVERHAUL LIFE 1500 WASTAGE Q.T.R.)	HRS.
				MEN × M	INUTES
INSPECTI PERIOI		OPERATION TO BE PERFORME	D	EST.	ACTU
25 Hr.					
	71/Main	n Check (See maintenance inst : 11/10)		1 x 2	
	71/Main	ACCESSIBILITY		1 X 2	
	71/Main	ACCESSIBILITY	THE MIRE S. PROVED	1 X 2	
ISSUE	71/Main	ACCESSIBILITY		1 X Z	
ISSUE	On E6 p	ACCESSIBILITY		1 X 2	
	71/Main On E6 p	ACCESSIBILITY		1 X 2	
ISSUE DATE	On E6 p	ACCESSIBILITY		1 X 2	

		LUBRICATIO	on Nil			
PPLICATION	MATERIAL	SPECIFICATION	FREQUENCY	ACC	CESS	4
German 6	TOTAL PART	E'were	- 31A . 988			
ETAILS:	NO PART NO.	10		.on Trian	Paymen	MANUFICAN
	ASSES CR	14.49	.or.Ga	ORANG .	.38461	MARUFAL
SPECIAL	TOOLS FOR AIRCRAFT	GROUND SUPPORT		OOLS FOR BENCH	USE	IOVEANS.
				1.41 - 181	et la	0173000
	Nil		Nil			
GROUI	ND TESTING EQUIPMEN	T	GROUND HA	ANDLING EQUIPMEN	NT	
	Nil	100 100	Maintena	nce Platform	4G/159	6
TOURS COME NO SECURITION OF THE SECURITION OF TH						
NTERCHANGEABLI	ЕХ	100000000000000000000000000000000000000	MTA-8W		MEN × I	Sent .
	в Х	REMOVAL INS	MTA-8W		Remai	Sent .
PEPLACEABLE	Disconnect 10 e	REMOVALINST	TRUCTIONS		MEN × N	MINUTES
PEPLACEABLE	Disconnect 10 e	lectrical connect:	TRUCTIONS	Estimated Frankly, 237	MEN × N	MINUTES
PEPLACEABLE	Disconnect 10 e	lectrical connect:	ions	Estimated Frankly, 237	MEN X)	MINUTES
PEPLACEABLE	Disconnect 10 e	lectrical connect:	ions	Estimated Frankly, 237	MEN X)	MINUTES
PEPLACEABLE	Disconnect 10 e	lectrical connect:	ions	Estimated Frankly, 237	MEN X)	MINUTES
REPLACEABLE	Disconnect 10 e	lectrical connect:	ions	Estimated Frankly, 237	MEN X)	MINUTES
EPLACEABLE	Disconnect 10 e	lectrical connect:	ions	Estimated Frankly, 237	MEN X)	MINUTES

M A I N T E		DATA RECORD Engineering Div.	SYSTEM ELECTRICS	REF. NO. 11-E6/16 & 1
DISTRIBUTION: STANDA S. Bi	ARD +	A/C TYPE - ARROW 1 EFF. A/C - 25201	COMPONENT Relay	s - . Signal LH & RH
MANUFACTURER'S PAR			AVRO PART NO. CS_R-1	22
LOCATION E6 pane	o" x 2.50" x el nose wheel nergised they e reverse cur complete the I	el well Sta. 129-147 ey complete the circuit arrent relay. De-energised DC FAIL warning light	7-1100 7-1152 REF. M.D.R.	
INSPECTION	- Loca		Q.T.R.	MEN × MINUTES
PERIOD		OPERATION TO BE PERFORMS	ED	EST. ACTUAL
25 hour	Function 71/Maint	n Check (See Maintenance Inst :-11/10)	cructions Report	1 x 2

ACCESSIBILITY

On E6 panel

ISSUE	1	
DATE	Oct. 28/57	
COMPILED	K.P. Lowe	
	WO2 Wentworth	
APPROVED	R.F. Reid	

APPLICATION DETAILS:	MATERIAL	SPECIFICATION	FREQUENCY		ACCESS	rya ryautrag
	THE THEFT OF	10838	- 3\h,348	- G##	SHATE MOS	TURNTER
	DE TAKE ON	A		The state of the s		
30105-200				-98 TX	AG PRESCO	MANUPACT
3 40/10 2 = 150	80 WG - 48	CROHIND SUBBORT	.0, 90.		DEGC.	MACKEV &
SDECIAL TOO	LS FOR AIRCRAFT	GROUND SUPPORT		TOOLS FOR BENC	12 XXX 3	LED THANK
NIL		W 100 C 100	on a series of the series of t	NIL		NUT DE LIT
GROUND T	ESTING EQUIPMENT		GROUND F	HANDLING EQUIPM	MENT	
NIL			Mainter	nance platfor	rm 4G/15	96.
NTERCHANGEABLE	X	REMOVAL INST	RUCTIONS		MEN × 1	MINUTES
EPLACEABLE		KEMOTAL INST	KOCTIONS		EST.	ACTUAL
	ect 8 electrio		ve and replace		1 x 10	
					440	

-	INTENANCE	DATA RECORD	SYSTEM ELECTRICS	REF. NO.
DISTRIBUTIO	o Aircraft Ltd. N: Standard + Brown. Knowlton.	A/C TYPE - Arrow 1 EFF. A/C - 25201	COMPONENT Relay Rever	se Current.
	IRER'S PART NO. IRER'S NAME PEC. E	.O. NO.	CS-R-135	
	On E6 panel-nose v STA 129-147	weight EST 1.25 LB.	7-1100- 7-1152-	
FUNCTION	and batt bus.	ween Main D-C bus & batt.	REF. M.D.R. 11-E6 RELIAB	ILITY
		arii (marana marana mar	OVERHAUL LIFE 1500 WASTAGE Q.T.R.	O HRS.

INSPECTIO	ON OPERATION TO BE PERFORMED	MEN X I	MEN X MINUTES		
PERIOD		EST.	ACTUAL		
AUTOA 1 3	PES CONTRACTOR OF THE PERSON O	SJBAXX	7434		
	Parties, See (Serenterente Luco Junio)	- P			
25 Hr.	Function Check (See Maintenance Instructions R 71 Maint 11/10).	eport 1 x 3			
	anoldsannos Issiriosle à Joseph	Dt son			
	a A rolay securing screws.	Remov			
		. •			
		<u> </u>			
	x I soniger has evenual				
	ACCESSIBILITY				
	On E6 panel				
SSUE	1				
DATE	October 28/57				
	K.P.Lowe.				
	WO2.Wentworth.				
	R.F.Reid.				



		LUBRICATIO	N Nil			4 . 3
PPLICATION	MATERIAL	SPECIFICATION	FREQUENCY	ACC	CESS	1
			- 514.393			UBIRTZIA
DETAILS:	CL-E-CU		.08.0.3	ON TEAM.	BYRKRUYE.	DATURAH DATURAH RADURA
	Abeq 3	GROUND SUPPORT	EQUIPMENT		A 2500 KI	no javoca
SPECIAL '	TOOLS FOR AIRCRAFT	USE	SPECIAL TOO	LS FOR BENCH	USE	
	Nil D TESTING EQUIPMEN		Nil	NDLING EQUIPME	NT	orrothing.
	AND THE RESERVE TO A SECURITION OF THE PERSON.					
	Nil		Maintenanc	e Platform 4	.G/1596	
1 112/ 12/12		PATURE / AND				11700
NTERCHANGEABLE REPLACEABLE	X	REMOVAL INST	RUCTIONS	Semig	MEN X N	MINUTES
	Disconnect 6	REMOVAL INST	ections	lace	EST.	
	Disconnect 6	ó electrical conne	ections	lace		
	Disconnect 6	o electrical connectary securing screw	ections	lace	EST.	
	Disconnect 6	o electrical connectary securing screw	ections rs. Remove and rep	lace	EST.	
	Disconnect 6	o electrical connectary securing screw	ections rs. Remove and rep	lace	EST.	
	Disconnect 6	o electrical conne	ections es. Remove and rep	lace	EST.	
	Disconnect 6	o electrical conne	ections es. Remove and rep	lace	EST.	ACTUAL

S. Brown K. Knowlton EFF. A/C - 25201 Emergency Bus. AVRO PART NO. MANUFACTURER'S NAME AVROCAN SPEC. E.O. NO. ENVELOPE SIZE 2.70" x 2.835" x 3.748" 1.0 LB. 7-1100-3 Sht. 2 7-1152-78	MAINTENANCE DA	TA RECORD Engineering Div.	ELECTRICS	REF. NO. 11-E6/19
MANUFACTURER'S NAME AVROCAN SPEC. E.O. NO. ENVELOPE SIZE 2.70" x 2.835" x 3.748" 1.0 LB. LOCATION On E6 panel nose wheel well Sta. 129-147 FUNCTION Is controlled by master electrics SW and when energised completes the circuit from Batt Bus to Emerg Bus, also completes the supply circuit to the coils of the R.H. external supply relay and the external line shedding relay. MS24140-2 REF. DWGS. 7-1100-3 Sht. 2 7-1152-78 REF. M.D.R. 11-E6 RELIABILITY OVERHAUL LIFE 1500 HRS. WASTAGE		ARROW I	R	elay -
FUNCTION Is controlled by master electrics SW and when energised completes the circuit from Batt Bus to Emerg Bus, also completes the supply circuit to the coils of the R.H. external supply relay and the external line shedding relay. 1.0 7-1100-3 Sht. 2 7-1152-78 REF. M.D.R. 11-E6 RELIABILITY OVERHAUL LIFE 1500 HRS.	MANUFACTURER'S PART NO. MANUFACTURER'S NAME AVROCAN SPEC. E.O. NO.			
when energised completes the circuit from Batt Bus to Emerg Bus, also completes the supply circuit to the coils of the R.H. external supply relay and the external line shedding relay. WASTAGE 11-E6 RELIABILITY OVERHAUL LIFE 1500 HRS.	and the state of the state of the	0.740"	7-1100-3	
	when energised comple- Batt Bus to Emerg B supply circuit to the external supply relay	tes the circuit from 1s, also completes the coils of the R.H.	11-E6 RELIABI OVERHAUL LIFE 15 WASTAGE	

INSPECTION OPERATION TO BE PERFORMED		MEN × MINUTE	
PERIOI	Of Blattion 10 to 1	EST.	ACTUAL
AUT Shi		James	1-04
25 hours	Function Check (See Maintenance Instructions Report 71/Maint-11/10).	1 x 2	
	ACCESSIBILITY		
	On E6 panel.		
	On no panor.		
			6
	1 1		
DATE	Oct. 28/57		
COMPILED	K.P. Lowe		
COMI ID			
CHECKED	WO2 Wentworth		

		LUBRICAT		DARRETHIAN
APPLICATION	MATERIAL	SPECIFICATION	FREQUENCY	ACCESS
The state of	S TELEPOON		Y - SELLON	
	Lane Comprand		S - OLA ENE A	
DETAILS:	TON-YBAN ON	rA .		
	T-DilDireser			
	100001 130	GROUND SUPPORT	EQUIPMENT	St. S. W. Wiley C. Carell Specimen
SPECIAL 7	TOOLS FOR AIRCRAFT	USE	SPECIAL TO	OLS FOR BENCH USE
NIL		182	NIL	
GROUNI	D TESTING EQUIPMENT		GROUND HA	NDLING EQUIPMENT
		DOBS II WA	CACOND HA	THE MOVE TO SEE STATE OF THE SEC STATE O
NIL		0	Maintenance Platform 4G/1596	
INTERCHANGEABLE X				MEN × MINUTES
REMOVAL INSTRUCTIONS			TRUCTIONS	EST. ACTUA
Disa	inneat 6 alaatiis	ntenance Instruc		Change en out to
	onnect 6 electric re 2 relay securi - F			1 x 10
	re 2 relay securi	ing screws	ee	l x 10

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MAINTENANCE AVRO AIRCRAFT LTD.	DATA RECORD Engineering Div.	SYSTEM ELECTRICS	REF. NO. 11-E6/20
DISTRIBUTION: STANDARD + S. Brown K. Knowlton	A/C TYPE - ARROW 1 25201	COMPONENT R	elay- Power.
MANUFACTURER'S PART NO. MANUFACTURER'S NAME AVROCAN SPEC.	3.0. NO.	AVRO PART NO. CS_R_128	
envelope size 4.12" x 4.12 LocationOn E6 panel nose wh	" x 4.0" weight 1.94 is.	7-1100-7-1152-	3 Sht. 2 78
Starting Unit, transferst	y a supply from the Engine he source of supply for the o the Engine Starting Unit.	REF. M.D.R.	ITY
		OVERHAUL LIFE 1500 WASTAGE Q.T.R.) HRS.
		ED .	MEN × MINUTES

INSPECTI	ON OPERATION TO BE PERFORMED	MEN X	EN × MINUTES	
PERIO	OF ENGLISH TO BE TENT OF THE	EST.	ACTUAL	
25 hours	Function Check (See Maintenance Instructions Report 71/Maint-11/10)			
	ACCESSIBILITY			
	On E6 panel			
ISSUE	1			
	Oct. 28/57			
COMPILED	K.P. Lowe			
CHECKED	WO2 Wentworth			
	R.F. Reid			

APPLICATION	MATERIAL	SPECIFICATION	FREQUENCY	ACCESS
775701	CHENORAL SOLETIONS	of Bell lea Hon	PREQUENCY	ACCESS AT MOTTUSIST
DETAILS:	SW TAKE OFF			
	wayn ya	GROUND SUPPORT	EQUIPMENT	,0392 v A2200
SPECIAL	TOOLS FOR AIRCRAFT			OOLS FOR BENCH USE
NIL		options of the second	NIL	
GROUN	D TESTING EQUIPMENT	1 -23/10 - 11	CROUND II	ANDLING EQUIPMENT
NIL	OVERTADE LOSS ([(Maintenance Pla	NEWS PROPERTY.
INTERCHANGEABLE	x	REMOVAL INS	TRUCTIONS	MEN × MINUTES
REPLACEABLE				EST. ACTUA
	onnect 4 electric		lace	1 x 10
				and the same

.

MAINTENANCE AVRO AIRCRAFT LTD.	DATA RECORD Engineering Div.	SYSTEM ELECTRICS	REF. NO. 11-E6/23
DISTRIBUTION: STANDARD + S.Brown. K.Knowlton.	A/C TYPE - Arrow 1 EFF. A/C - 25201	Relay- Primary A-C F	ailure.
MANUFACTURER'S PART NO. MANUFACTURER'S NAME AVROCAN SPEC.	ž.O. NO.	AVRO PART NO. CS-R-122	a.CATIO
ENVELOPE SIZE 2.60" X 2.50" X LOCATION E6 panel nose whee STA. 129-147		7-1100-3 s 7-1152-78	ht 2
circuit for a sign	sed by a signal due to a ts contacts complete the al due to a R.H AIT failure tes EMERG AIT operation.	REF. M.D.R. 11-E6 RELIABILE	T Y
		OVERHAUL LIFE 1500 WASTAGE Q.T.R.	HRS.

INSPECTI	N. T.	MEN X	MINUTES
PERIOR		EST.	ACTUAL
	AND TO DESCRIP JANUARS	0.10300	11111
25 Hr.	Function Check (See maintenance instructions report 71/Maint 11/10)	1 X 2	
	can all almos l'esperiale a apeniment	11310/1	•
	And the second s		
			
	On E6 panel		
ISSUE	1		
DATE	October 28/57		
COMPILED	K.P.Lowe.		
CHECKED	WO2.Wentworth		
APPROVED	R.F.Reid.		

		LUBRICATIO	Nil	
PPLICATION	MATERIAL	SPECIFICATION	FREQUENCY	ACCESS
	Las grantes		OL. TE	
ETAILS:				AND THE STATE OF T
18.30	C-MIE-T	GROUND SUPPORT	EQUIPMENT	USES TOOLS ASSESSED
SPECIAL	TOOLS FOR AIRCRAF	T USE	SPECIAL TOO	LS FOR BENCH USE
	Nil	The state of the s	Nil	
-	NAME OF TAXABLE PARTY.	- Turket Ma	Il i as oil with Laving	gir a sallah arran
GROU	ND TESTING EQUIPMEN	NT	GROUND HAN	NDLING EQUIPMENT
	Nil	1.0	Maintenance	e Platform 4G/1596
NTERCHANGEABL	EX	DEHOVAL INS	TRUCTIONS	MEN × MINUTES
EPLACEABLE		REMOVAL INS	IRUCTIONS	EST. ACTUAL
		electrical connec	ctions.	
	Remove 2 rel	ay securing screws	ove and Replace	1 X 10

MAINT	ENANCE	DATA REC	CORD	SYSTEM INSTRUMENTS	REF. NO. 12-29	
AVRO AIRC	RAFT LTD.	Engine	ering Div.		11-E1	
	ANDARD + Brown Knowlton	A/C TYPE - Al		COMPONENT Panel - Po	ower and St	.art
MANUFACTURER'S	part no. N	I/A		AVRO PART NO.	3 (1-1)	9.77
		craft Limited		7-1252-64		
Avrocan Spec. N				REF. DWGS.		
		x 3.1" WEIGHT (est. 1.92 LB.	7-1100-3 7-1252-65 7-1252-66 7-1252-67	5	
FUNCTION HOU		e electric switch. start switches.		REF. M.D.R.		
	partition to the con-			RELIABIL	ITY	
				overhaul Life 1500 wastage q.t.r. Pending	HRS	
INSPECTION		OPERATION	TO BE PERFORME	rn.	MEN × MINU	TES
PERIOD					EST. AC	TUA
Instruments Electrics 25 hours Instruments Electrics	Function Lift particular Check in	security and clear on (Check switch panel:- wiring and hardwar for faulty fasten	positions where	n completed)	1 x 1 1 x 3 1 x 2 1 x 5	
		ACCESSIBILITY	Y			
		Unobstructed.				
		oness vi a i i i i				
ISSUE	1	2	3			
DATE Aug	g. 21/56	Jan 29/57	Oct. 28/57			
DATE Aug						

APPLICATION	MATERIAL	SPECIFICATION	FREQUENCY	ACCESS	
TELCATION .	MATERIAL	J. L. S. LONALDI	- 89F OA -	+ osadaris akutu Inroli (ili bed Light X	remyelo
DETAILS:	ON YEAR OF	17.8	al besigni store	CHURRIC BARTHO.	ATTOMASE ATTOMASE
3)	Calabatan Samura	GROUND SUPPORT	EQUIPMENT	Massa g Well amage	0.25799
SPECIAL	TOOLS FOR AIRCRAF	T USE	SPECIAL TO	OLS FOR BENCH USE	
	Nil		N	gil	Armon
GROU	IND TESTING EQUIPME	NT	GROUND HA	ANDLING EQUIPMENT	
A-C	Ground Power Ur	nit	Cockpit ac	ccess stand.	
municipal Company		manager of the			mi - 1
NTERCHANGEAE	LE X	REMOVAL INS	FRUCTIONS	MEN × M	
REPLACEABLE				EST.	ACTUAL
1. 2.	Unfasten 4 quick Disconnect elect - Remove ar	crical wiring.		l x 25	or as

MA	INTENANO	E DATA RECORD	SYSTEM	REF. I	10.
	O AIRCRAFT LTD.	Engineering Div.	ELECTRICS	11-E1	5/2
DISTRIBUTION S.E	DN: STANDARD + Brown Knowlton.	A/C TYPE - Arrow 1 EFF. A/C - 25201	COMPONENT Switch- Master El		
MANUFACTU	JRER'S PART NO.		AVRO PART NO.		A333
MANUFACTU	JRER'S NAME		7-20/6/19		
AVROCAN SP	PEC.	E.O. NO.			
ENVELOPE S	size 1.3125" X	1.4375" X 2.37'WEIGHT 0.16 LI	REF. DWGS. 7-1100-2		
LOCATION	On El6 power	c & starting panel pilots	(-1100-2	2 Shu o	
FUNCTION	to R.H. and	e D-C supply from the Batt.bus L.H Power failure detectors speed switches, fire protection	REF. M.D.R.		
	circuit and	the emergency bus. relay.	RELIABIL	ITY	4
			OVERHAUL LIFE 1500 WASTAGE Q.T.R.		HRS.
INSPECT	TION	OPERATION TO BE PERFOR	MED	MEN X I	
PERIO	OD			EST.	ACTUA
	148			A.H.A.F.D	1000
25 H	ir.	Function Check (See maintenan report 71/Maint 11/10)	ce instructions	1 x 3	
	3 X Z				
		ACCESSIBILITY			
		Lift panel clear of console.			

October 28/57

K.P.Lowe WO2.Wentworth. R.F.Reid.

ISSUE

DATE

COMPILED

July 17/57

WO2.Wentworth

CHECKED J.Ferguson.

APPROVED R.F.Reid.

		LUBRICATION	N Nil		5
PPLICATION	MATERIAL	SPECIFICATION	FREQUENCY	ACCESS	A
- Carrie		0.558	O CHARGE		
ETAILS:	THE RESERVE OF THE PERSON OF T			CTURES WARY NO.	AWARAN
C pAG F 4		GROUND SUPPORT E		S X VERRE Z PARAM	OLD, WE
SPECIAL TO	OOLS FOR AIRCRAFT	r USE	SPECIAL TOO	LS FOR BENCH USE	
	Nil	300-10 300-10 31-2-31 31-31-31	r cred Alaque de concert rawali il concertar base	Nil	OFFICE
GROUND	TESTING EQUIPMEN	IT	GROUND HAN	NDLING EQUIPMENT	
	Nil		Cockpit ac	cess stand.	
		The second secon			1000
JTEDCUANCE ARLE	T v T	0.8H20.7869 UU 31 9).	E-Asia	MEN × M	UNUTES
	X	REMOVAL INST	RUCTIONS	MEN X M	MINUTES ACTUAL
NTERCHANGEABLE EPLACEABLE	Disconnect 8	3 electrical connecth securing nut and	tions.	EST.	
	Disconnect 8	3 electrical connec	tions. . locking washers	EST.	
	Disconnect 8	3 electrical connec	tions. locking washers Remove and replac	EST.	ACTUAL
	Disconnect 8	3 electrical connec	tions. locking washers. Remove and replace	EST.	

	ENANCE	DATA RECORD	SYSTEM	REF. NO.
AVRO AIRCRA		Engineering Div.	ELECTRICS	11-E20
STRIBUTION: STAN	DARD +	A/C TYPE - Arrow I	COMPONENT	
S.Brown K.Know		EFF. A/C - 25201	Aft. Limiter	anel
MANUFACTURER'S PA	art no. N/A		AVRO PART NO.	I I I I I I I I I I I I I I I I I I I
MANUFACTURER'S NA	Avro A	ircraft Limited.	7-1156-18	860 ÷ '
AVROCAN SPEC.	Nil E.C). NO.		
	TOBLE POR DENCT	2.5" WEIGHT 7.5 LB. and brake STA 485-495	7-1100-3 7-1100-2	
			723100	1.34.2
function House	es circuit lim	iters	REF. M.D.R.	1
	HANDLER ECOEM		RELIABI	LITY
	- Bresht (Sal	material	OVERHAUL LIFE 150 WASTAGE Q.T.R. Pendin	
INSPECTION		OPERATION TO BE PERFORME	0	MEN × MINUTES
PERIOD				EST. ACTUA
Desire	Check panel	for security, damage and cle	eanliness	
Primary 25 hrs.	Check for f	ers for condition. aulty fasteners. el, check limiters and wirir		1 x 10
Sense Lie	Check for for Release panal damage.	ers for condition. aulty fasteners. el, check limiters and wirir		
Sense Lie	Check for for Release panal damage.	ers for condition. aulty fasteners. el, check limiters and wirin		
25 hrs.	Check for f	ers for condition. aulty fasteners. el, check limiters and wirir	ng for security	

ISSUE

DATE

COMPILED

CHECKED

APPROVED

Dec. 15/55

G.Emmerson

C.Wright

8/56

D.Collingwood

G. Emmerson

January 3/57

D. Collingwood

WO2 Wentworth

R.F.Reid

October 28/57

W02 Wentworth R.F.Reid.

K.P. Lowe

A	THE COLUMN TWO IS NOT THE OWNER,	LUBRICATIO	Nil Nil		1 2 3 58
APPLICATION	MATERIAL	SPECIFICATION	FREQUENCY	ACCESS	
	THEOREGAE	D I word	- swrana l	+ URAGRAYS	Horrisagan
Lead	1 102111 110		329. A/G -		
DETAILS:		1020			
A Land Co.	Managaran paga	. De	A reput limit limit		
SPECIAL 1	TOOLS FOR AIRCRAFT	GROUND SUPPORT		ALL SOLOT A	ZLE STO LVV
		20 (20)	SPECIAL TOOL	s FOR BENCH USE	
	Nil		Nil	Paralla magnet	
GROUNI	TESTING EQUIPMENT		GROUND HAND	LING EQUIPMENT	
	OF RWAT STANSONS		The second secon	COM MENT	
	Nil		Maintenance	Stand.	
NTERCHANGEABLE	Х	REMOVAL INSTI	RUCTIONS	MEN	× MINUTES
REPLACEABLE	A STREET, STRE			EST.	
				13613	
	1. Disconnect 2 2. Release 11 ca		Li yanta almani ma		ELI 25
			Remove and replac	e 1 X 1	L5
		mloc fasteners.	Remove and replac	e 1 X 1	1.5
		mloc fasteners.		e 1 X 1	L5
		mloc fasteners.		e 1 X 1	1.5
		mloc fasteners.		e 1 X 1	1.5
	2. Release 11 ca	mloc fasteners.		e 1 X 1	L5
	2. Release 11 ca	mloc fasteners.		e 1 X 1	1.5
	2. Release 11 ca	mloc fasteners.		e 1 X 1	1.5
	2. Release 11 ca	mloc fasteners.		e 1 X 1	L5
	2. Release 11 ca	mloc fasteners.		e 1 X 1	L5
	2. Release 11 ca	mloc fasteners.		e 1 X 1	1.5

a

MAINTEN	ANCE	DATA RECORD	SYSTEM	REF. N 12-3	o.
	,,.,	Engineering Div.	INSTRUMENTS	11E2	
AVRO AIRCRAFT		A/C TYPE - ARROW 1	COMPONENT		
S. Bi					
	nowlton	EFF. A/C - 25201	Panel - Oxy	gen	
17.0 17.1	IOW E COII	2,202	AVRO PART NO.		
MANUFACTURER'S PART	NO. N/A		AVRO PART NO.		
	_ ~ ~ ~		2 7070	0/	
MANUFACTURER'S NAME	Avro Airo	eraft Ltd.	7-1252-	.00	
	P.	o, No.			
AVROCAN SPEC. Nil	E.	7. NO.	REF. DWGS. 7-1252-	12	
ENVELOPE SIZE 14.0)" x 3.5" x	4.5" WEIGHT 2.36 LE			
	, 12 305		7-1252-		
LOCATION Pilot's	cockpit -	R/H console	7-1252-	•	
	- F			3 Sht. 2	
	A. A.				
FUNCTION Houses	- Oxygen qua	antity gauge.	REF. M.D.R.		
		n light switch. r control switches.			
	- D. C. res		RELIAB	IL IT Y	
		eed indicator lights.	7.500	1	
	Ü		OVERHAUL LIFE 1500		HRS.
			WASTAGE		
			Q.T.R. Pending		
INSPECTION		OPERATION TO BE PERFOR	MED	MEN X N	INUTES
PERIOD		OPERATION TO BE PERFOR	MED	EST.	ACTUA
Primary	Charle co	curity and cleanliness of p	nanel	1 x 1	
Instrument	Check se	currey and creaminess or h	00.110 1	1 4. 1	
Electrics	Function	(Check switch position aft	ter completion.)	2 x 10	
				9.00	
25 hours				7	
Instrument	Lift pan	el:-		1 x 2	V.
777	Ob cala	ring and switches for secur	rity and damage	1 x 2	
Electrics		ring and switches for seculor faulty fasteners.	itoy allo daliage.	1	
	Oneck 10	1 Lauroy Labouners			
* CYMOAL ON					
J Million Company					
		ACCESSIBILITY			
		ACCESSIBILITY			
	Unobstr				

			4		
1	2	3			
Aug. 14/56	Jan. 28/57	Oct. 28/57			
D. Collingwood	WO2 Wentworth	J. Ferguson			
WO2 Wentworth	D. Collingwood	WO2 Wentworth			
		R.F. Reid			
ı	1 Aug. 14/56 D. Collingwood WO2 Wentworth G. Emmerson	D. Collingwood WO2 Wentworth WO2 Wentworth D. Collingwood	D. Collingwood WO2 Wentworth J. Ferguson WO2 Wentworth D. Collingwood WO2 Wentworth	D. Collingwood WO2 Wentworth J. Ferguson WO2 Wentworth D. Collingwood WO2 Wentworth	D. Collingwood WO2 Wentworth J. Ferguson WO2 Wentworth D. Collingwood WO2 Wentworth

		LUBRICAT	ION Nil		N. M.
PPLICATION	MATERIAL	SPECIFICATION	FREQUENCY	ACCESS	
716	Pariel - Dry		2-3VA 338		TUSINTRIA
ETAILS:	CHEZRAT ORV	A		A\M on reas stream	MATOLINGT
					PACIFICADA
			,ON 20.2	151, 5390	HADOSVA
		GROUND SUPPORT	EQUIPMENT	ASTER ACTOR SAME	NAMETORS
SPECIAL	TOOLS FOR AIRCRAFT	USE	SPECIAL TO	OOLS FOR BENCH USE	HOLENDA
Nil			Ní.	harmon - territoli	PUNCTION
GROUN	ND TESTING EQUIPMENT		GROUND H	ANDLING EQUIPMENT	
2917	CORT See Systems	0			
1 3 4	ASTAGE Consider				
	Ground Power Uni	t	Cod	ckpit Access Stand	
TUMB A ASB	V	TO BE PERFORMEN	WORTANCIGO	WEN V	MDIMER
NTERCHANGEABLE EPLACEABLE	EX	REMOVAL IN	STRUCTIONS	EST.	ACTUAL
	rument - Remove - Disconn - Remove : trical - Disconne - Remove and	ect 1 pipe line panel.	from oxygen gauge	1 x 10 1 x 5 1 x 15	word -T
				desanti	
					2008

MAINTEN	ANCE	DATA RECORD	SYSTEM	REF. NO.
AVRO AIRCRAFT		Engineering Div.	ELECTRICS	11-E22/2 &
ISTRIBUTION: STANDAL S. Brown K. Know	RD +	A/C TYPE - Arrow 1 EFF. A/C - 25201	COMPONENT Switch Altern	ator L & R.
IX o IXIIOW.	10011.		AVRO PART NO.	- Landing and
MANUFACTURER'S PART			CS-S-154	
A	17 0), NO.		
AVROCAN SPEC.			REF. DWGS.	
envelope size2.281	" X 1.3125"	X 0.75" WEIGHT 0.10 LB.	14.0	3 Sht 2.
On #22	Oxygen pane	Weisen .	/-1100-) 0110 £.
LOCATION UN EZZ Pilots	cockpit - R	R.H. Console.		
FUNCTION Contro bus an positi	d the T.R.U.	supply between emergency in the ON-OFF and Reset	REF. M.D.R.	i22
hostor	OHS.		RELIA	BILITY
			OVERHAUL LIFE 15 WASTAGE Q.T.R.	500 HRS.
INSPECTION	168 65356 5	OF DEPENDING	PD.	MEN × MINUTES
PERIOD		OPERATION TO BE PERFORME	<u> </u>	EST. ACTUA
25 Hr.	Function 71/Maint	Check (See maintenance inst 11/10)	cructions report	1 x 3
25 Hr.	Function 71/Maint	11/10)	ructions report	1 x 3
25 Hr.	Function 71/Maint	Check (See maintenance inst 11/10) ACCESSIBILITY	cructions report	

ISSUE

DATE COMPILED October 28/57

K.P.Lowe.

CHECKED W02.Wentworth.
APPROVED R.F.Reid.

		LUBRICATI	Nil Nil			
APPLICATION	MATERIAL	SPECIFICATION	FREQUENCY	2014.1	ACCESS	VA.
	AUTO JUEA		- 24.51	ing SIs	anne de Anne de	o marita sus
DETAILS:			on a	300 9	DEGE SALE	DARUHAH DARUHAH KADOKVA
		GROUND SUPPORT	EQUIPMENT	RESIDEL X PI	de la region	Inguis mes
SPECIAL T	OOLS FOR AIRCRAFT	USE	SPECIAL	TOOLS FOR BEN	ICH USE	
Nil		100001	Nil			
GROUNI	TESTING EQUIPMEN	Т	GROUND	HANDLING EQUI	PMENT	
Nil	100	CONTROL OF THE CONTROL	Cockpit	Access Star	nd.	(down)
INTERCHANGEABLE	X	REMOVAL INS	TRUCTIONS		MEN X	MINUTES
		electrical connector securing nut			1 x 8	

•

JAL

· •

MAINTE	NANCE I	DATA RECORD	SYSTEM	REF. 1	NO.
AVRO AIRCRAFT		Engineering Div.	ELECTRICS	11-E	22/12
DISTRIBUTION: STANDA S. Brown K. Knowlt	ARD +	A/C TYPE - Arrow 1 EFF. A/C - 25201	COMPONENT Switch-Pu Button D-	ush	
MANUFACTURER'S PART	T NO.		AVRO PART NO.		HARRO
MANUFACTURER'S NAME AVROCAN SPEC.	Е.О.	. No.	MS25089-4	₊D	
ENUELODE SIZE -688		WEIGHT .015 LB.	REF. DWGS.		
ENVELOPE SIZE	" V T°)tht	WEIGHT , OL)	7-1100-3 S	Sht. 2.	
	cockpit R.H.	console.		-1 5-1	
circuit		tes a D-C supply ergency bus to the	REF. M.D.R. 11-E22		
THEM	пиря пипания с		RELIABI	ILITY	
			OVERHAUL LIFE 1500 WASTAGE		HRS.
			Q.1.R.		
INSPECTION	a naecus Jig	OPERATION TO BE PERFORME	and the same of th	MEN × M	INUTES
INSPECTION PERIOD	a saecue Jig	OPERATION TO BE PERFORME	and the same of th	MEN × M	ACTUA
	a aseove Jia	OPERATION TO BE PERFORME	and the same of th		
		operation to be performe on Check (See maintenance i 71/Maint 11/10)	ED		
PERIOD		on Check (See maintenance i	instructions	EST.	

ACCESSIBILITY

Lift panel clear of console.

		The state of the s
ISSUE	1	
DATE	October 28/57	
COMPILED	K.P.Lowe.	
CHECKED	WO2.Wentworth	
APPROVED	R.F.Reid.	

GROUND SUPPORT EQUIPMENT SPECIAL TOOLS FOR AIRCRAFT USE SPECIAL TOOLS FOR AIRCRAFT USE SPECIAL TOOLS FOR BENCH USE Nil GROUND TESTING EQUIPMENT GROUND HANDLING EQUIPMENT Cockpit access stand. NTERCHANGEABLE X REMOVAL INSTRUCTIONS		1010	LUBRICATI	on Nil		
CROUND SUPPORT EQUIPMENT SPECIAL TOOLS FOR AIRCRAFT USE Nil GROUND TESTING EQUIPMENT Cockpit access stand. NTERCHANGEABLE X REMOVAL INSTRUCTIONS MEN X MIDUTES EST. ACTUAL Disconnect 3 electrical connectors Remove switch securing nut and Lockwashers. Remove and replace 1 X 8	APPLICATION	MATERIAL	SPECIFICATION	FREQUENCY		WA
GROUND SUPPORT EQUIPMENT SPECIAL TOOLS FOR AIRCRAFT USE Nil REMOVAL INSTRUCTIONS Remove and replace GROUND TESTING EQUIPMENT Cockpit access stand. MEN × MINUTES EST. ACTUAL		er-nostra.	105			
SPECIAL TOOLS FOR AIRCRAFT USE Nil Nil GROUND TESTING EQUIPMENT Nil Cockpit access stand. NTERCHANGEABLE X REMOVAL INSTRUCTIONS Disconnect 3 electrical connectors Remove switch securing nut and Lockwashers. Remove and replace 1 X 8	DETAILS:	OR THAT OR	78	3	AND POLICE CONTROL OF THE PARTY	
Nil Remove and replace SPECIAL TOOLS FOR BENCH USE Nil Nil Cockpit access stand. Remove and replace 1 X 8						
NII OROUND TESTING EQUIPMENT GROUND HANDLING EQUIPMENT NII Cockpit access stand.		.8000 -93	GROUND SUPPORT	EQUIPMENT	Angel Lawrence and a	по такия
Remove and replace 1 X 8	SPECIAL	TOOLS FOR AIRCRAFT	USE	SPECIAL TO	OLS FOR BENCH USE	
NII Cockpit access stand. NTERCHANGEABLE X REMOVAL INSTRUCTIONS Disconnect 3 electrical connectors Remove switch securing nut and Lockwashers. Remove and replace 1 X 8		Nil		Ni	1	
Disconnect 3 electrical connectors Remove switch securing nut and Lockwashers. Remove and replace Remove station Men × Minutes Est. Actual	GROUI	ND TESTING EQUIPMENT		GROUND HA	NDLING EQUIPMENT	
Disconnect 3 electrical connectors Remove switch securing nut and Lockwashers. Remove and replace 1 X 8	STUMBER OF WINE	Nil	O STANDANCIA NO OX	Cockpit	access stand.	
Disconnect 3 electrical connectors Remove switch securing nut and Lockwashers. Remove and replace 1 X 8		E X	REMOVAL INS	TRUCTIONS		
					1 X 8	
					4	
					German	
					18 188 201 07 20 1	

AVRO AIRCRA		ATA RECORD Engineering Div.	SYSTEM ELECTRICS	REF.	ко. Е28
S. BI		A/C TYPE - ARROW 1 EFF. A/C - 25201	COMPONENT Main Power Pane	el	
MANUFACTURER'S PA	RT NO. N/A		AVRO PART NO.		48780
ANUFACTURER'S NA	^{ME} Avro Aircraí	it Ltd.	7-1156-	-36	
VROCAN SPEC. N	E.o.	NO.			
ENVELOPE SIZE 22.	0" x 16.5" x 9	0.5" WEIGHT 67.5 LB.	REF. DWGS.		
		pulkhead sta. 485		.2 Sht. .3 Sht.	
	ribution of pow fier - control	er from the transformer units.	REF, M.D.R.		
			RELIABIL	ITY	
			overhaul life 1500 wastage q.t.r. Pending		HRS.
INSPECTION		OPERATION TO BE PERFORMED	D	MEN X I	MINUTES
PERIOD				EST.	ACTUA
Primary	Check tray	l for security and damage. s for security. ters for condition. heck. ys, check terminal strips a	and wiring for	1 x 8	
25 hours			ا ا	7 00	
25 hours	Remove tra security a			1 x 20	
25 hours				1 x 20	
Inspection	security a	nd damage.			

Remove left and right hand electrical equipment access cs)

Estimated - Remove and replace

28 Oct. 57

WO2 Wentworth

K.P. Lowe

R.F. Reid

2 Jan. 3/57

R.F. Reid

D. Collingwood WO2 Wentworth 1 x 7½

panels (74 camlocs)

ISSUE

DATE

COMPILED

CHECKED

APPROVED

1

April 27/56

G. Emmerson

D. Collingwood

GROUND SUPPORT EQUIPMENT SPECIAL TOOLS FOR AIRCRAFT USE SPECIAL TOOLS FOR AIRCRAFT USE SPECIAL TOOLS FOR BENCH USE Nil GROUND TESTING EQUIPMENT A-C Ground Fower Unit REMOVAL INSTRUCTIONS MEN X MINUTES SEPLACEABLE 1. Remove trays, 2. Disconnect all external wiring from panel, 3. Remove 4 mounting bolts. - Remove and replace 1 x 60			LUBRICATIO	ON Nil ATAG	NANCE		
GROUND SUPPORT EQUIPMENT SPECIAL TOOLS FOR AIRCRAFT USE Nil GROUND TESTING EQUIPMENT A-C Ground Fower Unit Meantenance Stand. NYERCHANGEABLE X REMOVAL INSTRUCTIONS MEN X MINUTES EST. ACTUAL 1. Remove trays. 2. Disconnect all external wiring from panel. 3. Remove 4 mounting bolts. Remove and replace 1 x 60	APPLICATION	MATERIAL					N/A
GROUND SUPPORT EQUIPMENT SPECIAL TOOLS FOR AIRCRAFT USE Nil OROUND TESTING EQUIPMENT A-C Ground Fower Unit Reintenance Stand. MEN X MINUTES EEFLACEABLE 1. Remove trays. 2. Disconnect all external wiring from panel. 3. Remove 4 mounting bolts. - Remove and replace 1 x 60		TO ALCOHOLD	00 E 10,0=1	- STAT DIA	A ROTA	CHATE HOL	TUBIRTE
GROUND SUPPORT EQUIPMENT SPECIAL TOOLS FOR AIRCRAFT USE Nil OROUND TESTING EQUIPMENT A-C Ground Fower Unit Reintenance Stand. MEN X MINUTES EEFLACEABLE 1. Remove trays. 2. Disconnect all external wiring from panel. 3. Remove 4 mounting bolts. - Remove and replace 1 x 60		Make Proven Fand	party.	- 216. 232			
GROUND SUPPORT EQUIPMENT SPECIAL TOOLS FOR ARCRAFT USE Nil OROUND TESTING EQUIPMENT A-C Ground Fower Unit Replaceable Remove trays. 2. Disconnect all external wiring from panel. 3. Remove 4 mounting bolts. - Remove and replace 1 x 60				7 10 10 10	nodiso	nii - i	
GROUND SUPPORT EQUIPMENT SPECIAL TOOLS FOR AIRCRAFT USE Nil OROUND TESTING EQUIPMENT A-C Ground Power Unit REMOVAL INSTRUCTIONS MEN × MINUTES EST. ACTUAL 1. Remove trays. 2. Disconnect all external wiring from panel. 3. Remove 4 mounting bolts. - Remove and replace 1 x 60	DETAILS:						
GROUND SUPPORT EQUIPMENT SPECIAL TOOLS FOR AIRCRAFT USE Nil OROUND TESTING EQUIPMENT A-C Ground Power Unit REMOVAL INSTRUCTIONS MEN × MINUTES EST. ACTUAL 1. Remove trays. 2. Disconnect all external wiring from panel. 3. Remove 4 mounting bolts. - Remove and replace 1 x 60							
SPECIAL TOOLS FOR AIRCRAFT USE Nil GROUND TESTING EQUIPMENT A-C Ground Fower Unit REMOVAL INSTRUCTIONS REPLACEABLE 1. Remove trays. 2. Disconnect all external wiring from panel. 3. Remove 4 mounting bolts. - Remove and replace 1 x 60							
SPECIAL TOOLS FOR AIRCRAFT USE Nil GROUND TESTING EQUIPMENT A-C Ground Fower Unit Removal Instructions REMOVAL INSTRUCTIONS REPLACEABLE 1. Remove trays. 2. Disconnect all external wiring from panel. 3. Remove 4 mounting bolts. - Remove and replace 1 x 60							
CROUND TESTING EQUIPMENT A-C Ground Fower Unit REMOVAL INSTRUCTIONS MEN × MINUTES REPLACEABLE 1. Remove trays. 2. Disconnect all external wiring from panel. 3. Remove 4 mounting bolts. - Remove and replace 1 x 60		P. DWGS.	GROUND SUPPORT	EQUIPMENT	MACHINE ST	SS age	SOLEVE
GROUND TESTING EQUIPMENT A-C Ground Power Unit Maintenance Stand. MERCHANGEABLE X REMOVAL INSTRUCTIONS EST. ACTUAL 1. Remove trays. 2. Disconnect all external wiring from panel. 3. Remove 4 mounting bolts. - Remove and replace 1 x 60	SPECIAL	TOOLS FOR AIRCRAFT	USE	SPECIAL T	OOLS FOR BENC	H USE	
GROUND TESTING EQUIPMENT A-C Ground Fower Unit REMOVAL INSTRUCTIONS REPLACEABLE 1. Remove trays. 2. Disconnect all external wiring from panel. 3. Remove 4 mounting bolts. - Remove and replace 1 x 60	2 2 1 1 1 2 1			. 20 2 20 44 (92.00-1)	in with - the	d Janua	OCATION
GROUND TESTING EQUIPMENT A-C Ground Fower Unit REMOVAL INSTRUCTIONS REPLACEABLE 1. Remove trays. 2. Disconnect all external wiring from panel. 3. Remove 4 mounting bolts. - Remove and replace 1 x 60	Nil			NI 4	7		
A-C Ground Power Unit Maintenance Stand. MEN × MINUTES EST. ACTUAL			ma actions	14.1	To not both		
A-C Ground Power Unit Maintenance Stand. MEN × MINUTES EST. ACTUAL			C 9 - C - C - C - C - C - C - C - C - C				
A-C Ground Fower Unit NITERCHANGEABLE X REMOVAL INSTRUCTIONS REPLACEABLE EST. ACTUAL 1. Remove trays. 2. Disconnect all external wiring from panel. 3. Remove 4 mounting bolts. - Remove and replace 1 x 60	GROU	IND TESTING EQUIPMENT	r	GROUND H	ANDLING EQUIPM	MENT	
NTERCHANGEABLE X REMOVAL INSTRUCTIONS REPLACEABLE 1. Remove trays. 2. Disconnect all external wiring from panel. 3. Remove 4 mounting bolts. - Remove and replace 1 x 60	159tm	MARKATAL LUFE 1500	70				
NTERCHANGEABLE X REMOVAL INSTRUCTIONS EST. ACTUAL 1. Remove trays. 2. Disconnect all external wiring from panel. 3. Remove 4 mounting bolts. - Remove and replace 1 x 60	A-C	Ground Power Uni	t	Ma	intenance St	tand.	
1. Remove trays. 2. Disconnect all external wiring from panel. 3. Remove 4 mounting bolts. - Remove and replace 1 x 60			-0			cana .	
1. Remove trays. 2. Disconnect all external wiring from panel. 3. Remove 4 mounting bolts. - Remove and replace 1 x 60			navonansu sa Ar				
1. Remove trays. 2. Disconnect all external wiring from panel. 3. Remove 4 mounting bolts. - Remove and replace 1 x 60	NTERCHANGEABI	LE X	REMOVAL INS	TRUCTIONS		MEN X N	MINUTES
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2. Disconnect all external wiring from panel. 3. Remove 4 mounting bolts. - Remove and replace 1 x 60							P. Dames
3. Remove 4 mounting bolts. - Remove and replace 1 x 60	1.	Remove trays.		heat rel costlat			
- Remove and replace 1 x 60	3	Disconnect all ex Remove 4 mounting	ternal wiring from bolts.	om panel.			
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Engineering Div. A/C TYPE -Arrow 1 EFF. A/C - 25201 E.O. NO. 4.235" X 4.280" WEIGHT 3.28 LB. wer Panel Duct-Bay aft. bulkhead	ELECTRICS COMPONENT Relay - A-C Line I AVRO PART NO. MS24168 - 1 REF. DWGS. 7-1100-3 7-1100-2	11-E28/11
A/C TYPE -Arrow 1 EFF. A/C - 25201 E.O. NO. 4.235" X 4.280" ENHT 3.28 LB.	A-C Line I AVRO PART NO. MS24168 - 1 REF. DWGS. 7-1100-3	
E.O. NO. 4.235" X 4.280" WEIGHT 3.28 LB.	A-C Line I AVRO PART NO. MS24168 - 1 REF. DWGS. 7-1100-3	. & R.
E.O. NO. 4.235" X 4.280" WEIGHT 3.28 LB.	AVRO PART NO. MS24168 - 1 REF. DWGS. 7-1100-3	
4.235" X 4.280" WEIGHT 3.28 LB.	MS24168 - 1 REF. DWGS. 7-1100-3	R.FATE
4.235" X 4.280" WEIGHT 3.28 LB.	REF. DWGS. 7-1100-3	
4.235" X 4.280" WEIGHT 3.28 LB.	REF. DWGS. 7-1100-3	
4.235" X 4.280" WEIGHT 3.28 LB.	7-1100-3	
4.235" X 4.280" WEIGHT 3.28 LB.	7-1100-3	
	7-1100-3	
wer Panel Duct-Bay aft.bulkhead	7_1100_2	
wer raner bucc-bay arc. burknead	1-1100-2	Sht.25.
A-C output circuit between the	REF. M.D.R.	
main A=0) phase bus=bars.	11-E28	
	RELIABIL	IT Y
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OPERATION TO BE PERFORMI	ÉD	EST. ACTU
: ENGITOURIEM JAVUREM		
		1 X 2
ACCESSIBILITY		
E28 Panel		
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APPLICATION	MATERIAL	SPECIFICATION	FREQUENCY	ACCESS
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DETAILS:	ON 7889 OS	V A		OR TAXA SYCHRITY DARRIES
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SDECIAL	TOOLS FOR AIRCRAF	T USE		S FOR BENCH USE
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DEFINITION OPERATION OPERATION TO BE PERFORMED NET STANDARD + A.C. TYPE - A.R. AND 1 S. Brown K. Knowlton Eff. A.C. 25201 AVEO PART NO. MANUFACTURER'S NAME AVEOCAN SPEC. E.O. NO. ENVELOPE SUE 3.735" x 4.03" x 3.69" verbit 2.30 Lm. COCATION On E-28 Main Power Panel duct bay aft of bulkhead Sta. 485. PUNCTION Sheds certain non-essential A-C loads on failure of the R. H. alternator system. III-E-28 RELIABILITY OVERHAUL LIFE 1500 HRS. WASTAGE O.T.R. INSPECTION PERIOD OPERATION TO BE PERFORMED FUNCTION Sheds certain character instructions report 71/Neint 11/10) ACCESSIBILITY On E-28 panel.	ACCESSIBILITY Regimenting Div. Regimenting Div. Regimenting Div. Regimenting Div. Regimenting Div. Regimenting Div. Reflay - A-C Shedding A/C TYPE - ARROW 1 Relay - A-C Shedding AVRO PART NO. AVRO PART NO. MS 24144-1 AVROCAN SPEC. E.O. NO. REF. DWGS. 7-1100-3 Sht. 2 REF. M.D.R. REF. M.D.R. REF. M.D.R. REF. M.D.R. RELIABILITY OVERHAUL LIFE 1500 WASTAGE O.T.R. REST. ACTUAL ACCESSIBILITY ACCESSIBILITY ACCESSIBILITY ACCESSIBILITY ACCESSIBILITY	MAINT	ENANCE	DATA RECORD	SYSTEM ELECTRICS	REF.	NO.
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On E-28 Main Power Panel duct bay aft of bulkhead Sta. 485. FUNCTION Sheds certain non-essential A-C loads on failure of the R. H. alternator system. REF. M.D.R. 11-E-28 RELIABILITY OVERHAUL LIFE 1500 HRS. WASTAGE Q.T.R. INSPECTION PERIOD OPERATION TO BE PERFORMED EST. ACTUAL 25 hours Function Check (See maintenance instructions report 71/Maint 11/10) ACCESSIBILITY On E-28 panel.	On E-28 Main Power Panel duct bay aft of bulkhead Sta. 485. FUNCTION Sheds certain non-essential A-C loads on failure of the R. H. alternator system. REF. M.D.R. 11-E-28 RELIABILITY OVERHAUL LIFE 1500 HRS. WASTAGE Q.T.R. INSPECTION PERIOD OPERATION TO BE PERFORMED EST. ACTUAL 25 hours Function Check (See maintenance instructions report 71/Maint 11/10) ACCESSIBILITY	ENVELOPESIZE).	735" X 4.03" 3	1 3.69" WEIGHT 2.30 LB	0 10	7 2 C1 ±	0
bulkhead Stz. 485. FUNCTION Sheds certain non-essential A-C loads on failure of the R. H. alternator system. REF. M.D.R. RELIABILITY OVERHAUL LIPE 1500 MSTAGE Q.T.R. INSPECTION PERIOD OPERATION TO BE PERFORMED EST. ACTUAL 25 hours Function Check (See maintenance instructions report 71/Maint 11/10) ACCESSIBILITY On E-28 panel.	bulkhead Sta. 485. FUNCTION Sheds certain non-essential A-C loads on failure of the R. H. alternator system. REF. M.D.R. 11-E-28 RELIABILITY	LOCATION On E-	28 Main Power	Panel duct bay aft of	/-110/	J-J Snt.	2
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failure of the R. H. alternator system. 11-E-28 RELIABILITY OVERHAUL LIFE 1500 MRS. WASTAGE Q.T.R. INSPECTION PERIOD MEN × MINUTES EST. ACTUAL ACTUAL REST. ACTUAL ACTUAL REST. ACTUAL ACCESSIBILITY	failure of the R. H. alternator system. 11-E-28 RELIABILITY	FUNCTION Sheds	certain non-e	essential A-C loads on	REF. M.D.R.		
OVERHAUL LIFE 1500 HRS. WASTAGE O.T.R. INSPECTION PERIOD OPERATION TO BE PERFORMED Function Check (See maintenance instructions report 71/Maint 11/10) ACCESSIBILITY On E-28 panel.	OVERHAUL LIFE 1500 WASTAGE Q.T.R. INSPECTION PERIOD OPERATION TO BE PERFORMED Function Check (See maintenance instructions report 71/Maint 11/10) ACCESSIBILITY ACCESSIBILITY	failu	re of the R. H	. alternator system.	70 0 h n	28	
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INSPECTION PERIOD OPERATION TO BE PERFORMED Function Check (See maintenance instructions report 71/Maint 11/10) ACCESSIBILITY On E-28 panel.	INSPECTION PERIOD OPERATION TO BE PERFORMED MEN X MINUTES EST. ACTUAL 25 hours Function Check (See maintenance instructions report 71/Maint 11/10) 1 x 3						
PERIOD OPERATION TO BE PERFORMED EST. ACTUAL Function Check (See maintenance instructions report 71/Maint 11/10) 1 x 3 ACCESSIBILITY On E-28 panel.	PERIOD OPERATION TO BE PERFORMED EST. ACTUAL 25 hours Function Check (See maintenance instructions report 71/Maint 11/10) 1 x 3				Q.T.R.		
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Function Check (See maintenance instructions report 71/Maint 11/10) ACCESSIBILITY On E-28 panel. SUE 1 ATE Oct. 28/57 DMPILED K.P. Lowe	Function Check (See maintenance instructions report 71/Maint 11/10) 1 x 3	PERIOD		OFERATION TO BE PERFORM	LU		1
ACCESSIBILITY On E-28 panel. SUE 1 ATE Oct. 28/57 DMPILED K.P. Lowe	ACCESSIBILITY	AUTEN TO					
On E-28 panel. SUE 1 ATE Oct. 28/57 DMPILED K.P. Lowe			71/Maint	11/10)		1 x 3	
OMPILED K.P. Lowe			On I				
DMPILED K.P. Lowe							
	ATE Oct. 28/57	ATE Oct.	28/57				

APPROVED R.F. Reid

CONTRACT F		LUBRICATI	ON Nil			
APPLICATION	MATERIAL	SPECIFICATION	FREQUENCY	Ac	CCESS	16
Intober		C 2 7052	- 3/4 7 5/4 - 3/4 7 3	mio z		
DETAILS:	ON TRAN 1181	A .				
	P. DWGS.	GROUND SUPPORT	EQUIPMENT	7330 x 4.030	ξ anse	dolanus
SPECIAL	TOOLS FOR AIRCRAFT	USE	SPECIAL T	OOLS FOR BENCH	H USE	
			Correction of the Control of the Con		ed no v	TOTAL DOL
Nil		no alico.	Ni	lor professor		
GROUN	D TESTING EQUIPMEN	Т	GROUND H	ANDLING EQUIPM	ENT	
Nil		w l	Ma	intenance St	andard.	
NTERCUANCEARIE	X	USINALYNAUS SO US	MOST ASERSO	-	MEN X N	MINUTES
	z X	REMOVAL INS	Chock (Society)	offenut	MEN × MEST.	ACTUAL
REPLACEABLE Disc	connect 8 electrive 4 relay secur	cal connections	4 11/10)	offener Parking		
REPLACEABLE Disc	onnect 8 electri	cal connections ing screws. - Remove & rep	4 11/10)	ottonus nistAIT	EST.	
	onnect 8 electri	cal connections ing screws. - Remove & rep	lace		EST.	
REPLACEABLE Disc	onnect 8 electri	cal connections ing screws. - Remove & rep	lace		EST.	ACTUAL
eplaceable Disc	onnect 8 electri	cal connections ing screws. - Remove & rep	lace		EST.	ACTUAL

	NANCE	DATA RECORD	SYSTEM ELECTRICS	REF. NO. 11-E-28/1
AVRO AIRCRAI	T LTD.	Engineering Div.	3330111208	4
DISTRIBUTION: STAND	ARD +	A/C TYPE - ARROW 1	COMPONENT	
S. Bi	าดพา			- External
	nowlton	EFF. A/C -	Supply	L&R
N. M	IOWI COII	25201		
MANUFACTURER'S PAR	T NO.		AVRO PART NO.	
MANUFACTURER'S NAM	Æ		M24168-1	
			\triangle	
AVROCAN SPEC.	E.C), NO.	M 100 0	
ENVELOPE SIZE 4.22	20" x 4.235 x	4.280" WEIGHT 3.28 L	REF. DWGS.	
			7-1100-3 Sh	t. 2
ocation On E-28	Main Power	Panel duct bay aft of	April gradule the mann	
	d Sta. 485.	,		
TUNCTION Complet	te the A-C 3	phase supply circuit	REF. M.D.R.	
between	the externa	l supply connector and	11 E-28	
	& R. main A-		11 11-20	
			RELIABIL	ITY
			7,500	
			OVERHAUL LIFE 1500	HRS.
			WASTAGE	
			Q.T.R.	
INSPECTION PERIOD		OPERATION TO BE PERFOR	MED	MEN X MINUTES
PERIOD				EST. ACTUA
MOTETO STREET				Albert Leves
25 1-0-5	Function	Check, connect external A-	Camound	
2) nour		officer, confidence experiment was	o ground	
co nour				
co nour	supply to	the aircraft select the M	MASTER ELECTRICS	
25 hour	supply to Switch to	the aircraft select the MON and ensure that the A-	MASTER ELECTRICS B and C phases	
2) nour	supply to Switch to of LH and	the aircraft select the NON and ensure that the A-RH main A-C bus-bars are	MASTER ELECTRICS B and C phases	
2) nour	supply to Switch to of LH and	the aircraft select the MON and ensure that the A-	MASTER ELECTRICS B and C phases	1 x 12
zo nour	supply to Switch to of LH and	the aircraft select the NON and ensure that the A-RH main A-C bus-bars are	MASTER ELECTRICS B and C phases	1 x 12
2) nour	supply to Switch to of LH and	the aircraft select the NON and ensure that the A-RH main A-C bus-bars are	MASTER ELECTRICS B and C phases	1 x 12
2) nour	supply to Switch to of LH and	the aircraft select the NON and ensure that the A-RH main A-C bus-bars are	MASTER ELECTRICS B and C phases	1 x 12
zo nour	supply to Switch to of LH and	the aircraft select the NON and ensure that the A-RH main A-C bus-bars are	MASTER ELECTRICS B and C phases	1 x 12
zo nour	supply to Switch to of LH and	the aircraft select the NON and ensure that the A-RH main A-C bus-bars are	MASTER ELECTRICS B and C phases	1 x 12
2) nour	supply to Switch to of LH and	the aircraft select the NON and ensure that the A-RH main A-C bus-bars are	MASTER ELECTRICS B and C phases	1 x 12
zo nour	supply to Switch to of LH and	the aircraft select the NON and ensure that the A-RH main A-C bus-bars are	MASTER ELECTRICS B and C phases	1 x 12
zo nour	supply to Switch to of LH and	the aircraft select the NON and ensure that the A-RH main A-C bus-bars are	MASTER ELECTRICS B and C phases	1 x 12
zo nour	supply to Switch to of LH and	the aircraft select the NON and ensure that the A-RH main A-C bus-bars are	MASTER ELECTRICS B and C phases	1 x 12
zo nour	supply to Switch to of LH and	the aircraft select the NON and ensure that the A-RH main A-C bus-bars are	MASTER ELECTRICS B and C phases	1 x 12
2) nour	supply to Switch to of LH and	the aircraft select the P ON and ensure that the A- RH main A-C bus-bars are volts A-C.	MASTER ELECTRICS B and C phases	1 x 12
zo nour	supply to Switch to of LH and	the aircraft select the MON and ensure that the ARH main A-C bus-bars are volts A-C.	MASTER ELECTRICS B and C phases	1 x 12
zo nour	supply to Switch to of LH and	the aircraft select the P ON and ensure that the A- RH main A-C bus-bars are volts A-C.	MASTER ELECTRICS B and C phases	1 x 12
zo nour	supply to Switch to of LH and	the aircraft select the MON and ensure that the ARH main A-C bus-bars are volts A-C.	MASTER ELECTRICS B and C phases	1 x 12
zo nour	supply to Switch to of LH and	the aircraft select the MON and ensure that the ARH main A-C bus-bars are volts A-C.	MASTER ELECTRICS B and C phases	1 x 12
zo nour	supply to Switch to of LH and	the aircraft select the MON and ensure that the ARH main A-C bus-bars are volts A-C.	MASTER ELECTRICS B and C phases	1 x 12
zo nour	supply to Switch to of LH and	the aircraft select the MON and ensure that the ARH main A-C bus-bars are volts A-C.	MASTER ELECTRICS B and C phases	1 x 12
zo nour	supply to Switch to of LH and	the aircraft select the MON and ensure that the ARH main A-C bus-bars are volts A-C.	MASTER ELECTRICS B and C phases	1 x 12
	supply to Switch to of LH and	the aircraft select the MON and ensure that the ARH main A-C bus-bars are volts A-C.	MASTER ELECTRICS B and C phases	1 x 12
SSUE	supply to Switch to of LH and with 115	the aircraft select the MON and ensure that the ARH main A-C bus-bars are volts A-C.	MASTER ELECTRICS B and C phases	1 x 12
SSUE Oct. 28	supply to Switch to of LH and with 115	the aircraft select the MON and ensure that the ARH main A-C bus-bars are volts A-C.	MASTER ELECTRICS B and C phases	1 x 12
SSUE Oct. 28 COMPILED K.P. LO	supply to Switch to of LH and with 115	the aircraft select the MON and ensure that the ARH main A-C bus-bars are volts A-C.	MASTER ELECTRICS B and C phases	1 x 12

PPLICATION				ACCESS
IT DICKTION	MATERIAL	SPECIFICATION	FREQUENCY	ACCESS
To A			- 5% 333	
DETAILS:	r-SALIKER			THE THE STREET STREET STREET
		GROUND SUPPORT	EQUIPMENT	200 4 7 THE OWNER WASHINGTON
SPECIAL	TOOLS FOR AIRCRAF			OOLS FOR BENCH USE
	nd testing equipme: Ground Power Un:	IVD IAW		andling equipment
Trues y Mar		anner trat en cu		
NTERCHANGEABLE	E		TRUCTIONS	MEN × MINUTES
REPLACEABLE		REMOVAL INS	IRUCTIONS	EST. ACTUAL
Di a-	onneat a alasta	ical connections		salturate had be
	onnect 8 el e ctr ve 4 relay secu		and replace	1 x 12
		ring screws -Remove	and replace	1 x 12
		ring screwsRemove		1 x 12
		ring screwsRemove		1 x 12

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	TENANCE	DATA RECORD	SYSTEM ELECTRICS	11-E-28/33
DISTRIBUTION: S		A/C TYPE - ARROW 1 EFF. A/C - 25201	COMPONENT Relay - Line Shedding	External
MANUFACTURER			AVRO PART NO.	
MANUFACTURER			CS-R-122	
AVROCAN SPEC.		E.O. NO.	REF. DWGS.	
ENVELOPE SIZE	2.60" x 2.50"	х 2.125 weight 0.44 г	R	3 Sht. 2
LOCATION On bui	E-28 main powe lkhead Sta. 485	r panel duct bay aft of		
EL	ECTRICS switch	operation of the MASTER with A-C ground power	REF. M.D.R.	
Su	pply attached t ndition this re	to aircraft, in this elay cuts off d-c to AC	RELIABIL	ITY
	ne relays.		overhaul life 1500 wastage q.t.r.	HRS.
INSPECTION		OPERATION TO BE PERFO		MEN × MINUTES
			RMED	
PERIOD 25 hour	Function 71/ Mair	n Check (See Maintenance In		1 x 2
	Function 71/ Main	n Check (See Maintenance In		
	Function 71/ Main	n Check (See Maintenance In		
25 hour	Function 71/ Main	n Check (See Maintenance In nt 11/10)		
	Function 71/ Main	n Check (See Maintenance Innt 11/10)		
25 hour	71/ Mair	n Check (See Maintenance Innt 11/10)		
25 hour ISSUE DATE O	71/ Mair	n Check (See Maintenance Innt 11/10)		
ISSUE DATE O	71/ Mair	n Check (See Maintenance Innt 11/10)		

Non milet		LUBRICA	TION Nil	3 3 M A M 5	3 1 77 1 /4	
APPLICATION	MATERIAL	SPECIFICATION	FREQUENCY	-	CCESS	VA.
	- VETBY	1000	The State of	+ Cons		
	ntrheid or hi			anout ton		
DETAILS:	ATT THE PROPERTY.	DRVA		ow ra	AR BERROY	DATUMAK
		Ar-97-20	08K -0-1		.SJTEP	KADOKYA
900044		GROUND SUPPOR		COLG DOD DENG		ENVELORS
SPECIAL	TOOLS FOR AIRCRA	FT USE	SPECIAL T	COOLS FOR BENCE	H USE	HOY MODEL
Nil			Nil			
77.7.7		988 5523	NIL			
GROU	ND TESTING EQUIPM	ENT	GROUND H	HANDLING EQUIPM	ENT	
		1800				
Nil		T.0	Maint.	enance Stand	<u> </u>	
			21002110			
NTERCHANGEABL	ЕХ	REMOVALI	NSTRUCTIONS		MEN X I	MINUTES
REPLACEABLE	Property Spec	otaunianI eenema	NSTRUCTIONS	Foreston 72/ inju	MEN X I	ACTUAL
	Property Spec	rical connections uring screws	Lett 982) - 38 - 70 (02141 0	e		
REPLACEABLE Disc	connect 7 elect	rical connections uring screws	Leif sez) se cro	е	EST.	
REPLACEABLE Disc	connect 7 elect	rical connections uring screws	Remove and replace	е	EST.	
REPLACEABLE Disc	connect 7 elect	rical connections uring screws	Remove and replace	е	EST.	

Bulkhead STA 485 FUNCTION Controls the operation of the R & L transfer relays upon fault or failure occurring in the R.H. Alt.System. RELIABILITY OVERHAUL LIPE 1500 HRS. WASTAGE Q.T.R. DISPECTION PERIOD OPERATION TO BE PERFORMED EST. ACTU. 25 Hr. Function Check (See Maintenance Instructions Report 71/Maint 11/10. ACCESSIBILITY On E28 Panel.	MAI	NTENANCE	DATA RECOR		REF.	
ACCESSIBILITY On E28 Panel. ACCESSIBILITY On E28 Panel. ACCESSIBILITY On E28 Panel. ACCESSIBILITY On E28 Panel.		Anadas		ELECTRICS	11-E	28/34
ARTOW 1. Relay- Transfer Control ANNOCAN BRE. ANNOCAN BRE. E.O. NO. ENVELOPE BIZE 2.60" X 2.50" X 2.125" WENHT 0.44. LB. ENVELOPE BIZE 2.60" X 2.50" X 2.125" WENHT 0.44. LB. EXT. DWGS. PUNCTION Controls the operation of the R & L transfer relays upon fault or failure occurring in the R.H. Alt. Dystem. DESPECTION PERIOD OPERATION TO BE PERFORMED ACCESSIBILITY ON E28 Panel. ACCESSIBILITY On E28 Panel. BBUE 1 DATE COLORDER 28/57 COMPILED K.F. Lowe CS-R-122 REF. DWGS. 7-1100-3 Sht.2 REF. M.D.R. 11-E28 OVERMUL LIFE 1500 MEN × MONUTER EST. ACTU ACCESSIBILITY On E28 Panel.			A /C TUDE	COMPONENT		
MANUFACTURER'S PART NO. MANUFACTURER'S PART NO. MANUFACTURER'S PART NO. MANUFACTURER'S PART NO. CS-R-122 MAYRO PART NO. CS-R-122 MERF. DWOS. 7-1100-3 Sht.2 LOCATION On E28 Main Power Panel Duct Bay aft, of Bulkhead STA 485 FUNCTION Controls the operation of the R & L transfer relays upon fault or failure occuring in the R.H. Alt. System. REF. MD.R. REF. MD.R. REF. MD.R. 11-E28 OVERHAUL LIFE 1500 MRS. WASTAGE O.T.R. PRINCE OF TAILORS OF THE NO. ACCUSSIBILITY ON E28 Panel. ACCESSIBILITY On E28 Panel.			Arrow	1. Rel		7
ANUTACTURER'S PART NO. ANUTACTURER'S PART NO. ENVELOPE SIZE 2.60" X 2.50" X 2.125" WENHT 0.44. LE. COATION On E28 Main Power Panel Duct Bay aft, of Bulkhoad STA 485 FUNCTION Controls the operation of the R & L transfer relays upon fault or failure occurring in the R.H. Alt.System. REF. MD.R. REF. MD.R. REF. MD.R. 11-E28 RELIABILITY OVERHAUL LIPE 1500 HRS. WASTAGE 0.T.R. DISPECTION OPERATION TO BE PERFORMED MEN'S ACTU. ACCESSIBILITY On E28 Panel. ACCESSIBILITY On E28 Panel.			EFF. A/C -25201	Tra	nsfer Contr	01
MANUFACTURER® MAME WATCHCARE BEC. E.O. NO. ENVELOPE SIZE 2.60" X 2.50" X 2.125" WEIGHT 0.44. LB. ENVELOPE SIZE 2.60" X 2.50" X 2.125" WEIGHT 0.44. LB. COCATION On E28 Main Power Panel Duct Bay aft, of Eulkhead STA 485 FUNCTION Controls the operation of the R 2 L transfer relays upon fault or failure occurring in the R.H. Alt. System. REF. DWGS. 7-1100-3 Sht.2 REF. M.D.R. 11-E28 REF. M.D.R. REF. M.	MANUFACTUE	RER'S PART NO.		AVRO PART NO.		Derau
AVROCANSPEC. E.O.NO. ENVELOPESIEZ_60" X 2,50" X 2,125" WEIGHT 0.44. LB. COCATION On E28 Nain Power Panel Duct Bay aft. of Bulkhead STA 485 FUNCTION Controls the operation of the R & L transfer relays upon fault or failure occurring in the R.H. Alt.bystem. REF. MD.R. 11-E28 REFLIABILITY OVERHAUL LIFE 1500 HRS. WASTAGE Q.T.R. DISPECTION OPERATION TO BE PERFORMED MEN X MINUTES EST. ACTU- ACCESSIBILITY On E28 Panel. ACCESSIBILITY On E28 Panel.				CS-R-	122	
REP. DWGS. 7-1100-3 Sht.2 LOCATION On E28 Main Power Panel Duct Bay aft. of Bulkhead STA 485 FUNCTION Controls the operation of the R & L transfer relays upon fault or failure occurring in the R.H. Alt.System. REF. M.D.R. 11-E28 RELIABILITY OVERHAUL LIFE 1500 HRS. WASTAGE O.T.R. DISPECTION OPERATION TO BE PERFORMED REST. ACTU. 25 Hr. Function Check (See Maintenance Instructions Report 71/Maint 11/10. ACCESSIBILITY On E28 Panel.	MANUFACTUR	RER'S NAME				
COATION On E28 Main Power Panel Duct Bay aft. of Bulkhead STA 485 FUNCTION Controls the operation of the R & L transfer relays upon fault or failure occuring in the R.H. Alt.System. Negrotion	AVROCAN SPI	EC.	E.O. NO.			
COATION On E28 Main Power Panel Duct Bay aft. of Bulkhead STA 485 FUNCTION Controls the operation of the R & L transfer relays upon fault or failure occuring in the R.H. Alt.System. Negrotion	ENVELOPE SI	ZE2.60" X 2.50"	X 2.125" WEIGHT 0.41	LB. REF. DWGS. 7-1100	3 Sht.2	
PUNCTION Controls the operation of the R & L transfer relays upon fault or failure occurring in the R.H. Alt.System. RELIABILITY OVERHAUL LIPE 1500 HRS. WASTAGE O.T.R. DISPECTION OPERATION TO BE PERFORMED EST. ACTUAL ACCESSIBILITY On E28 Panel. ACCESSIBILITY On E28 Panel.	LOCATION			AND DESCRIPTION OF THE PERSON		
transfer relays upon fault or failure occuring in the R.H. Alt.System. RELIABILITY OVERHAUL LIFE 1500 HRS. WASTAGE Q.T.R. INSPECTION PERIOD OPERATION TO BE PERFORMED EST. ACTUAL 25 Hr. Function Check (See Maintenance Instructions Report 71/Maint 11/10. ACCESSIBILITY On E28 Panel. INSUE 1 DATE October 28/57 COMPILED K.P.Lowe CHECKED W02.Wentworth.		Bulkhead STA 48	5	7 , 16-75 4-		
transfer relays upon fault or failure occuring in the R.H. Alt.System. RELIABILITY OVERHAUL LIFE 1500 HRS. WASTAGE Q.T.R. INSPECTION PERIOD OPERATION TO BE PERFORMED EST. ACTUAL 25 Hr. Function Check (See Maintenance Instructions Report 71/Maint 11/10. ACCESSIBILITY On E28 Panel. INSUE 1 DATE October 28/57 COMPILED K.P.Lowe CHECKED W02.Wentworth.	FUNCTION	Controls the op	eration of the R & L	REF. M.D.R.		
RELIABILITY OVERHAUL LIPE 1500 HRS. WASTAGE Q.T.R. MEN × MINUTER DEST. ACTUAL ACCESSIBILITY On E28 Panel. ACCESSIBILITY On E28 Panel.		transfer relays	upon fault or failure	e 11-E2	8	
INSPECTION PERIOD OPERATION TO BE PERFORMED SEST. ACTUAL 25 Hr. Function Check (See Maintenance Instructions Report 71/Maint 11/10. ACCESSIBILITY On E28 Panel. ISSUE 1 DATE October 28/57 COMPILED K.P.Lowe CHECKED WOZ.Wentworth.		coouring in one	and the same of the same	RELI	ABILITY	
INSPECTION PERIOD OPERATION TO BE PERFORMED ACCESSIBILITY On E28 Panel. ACCESSIBILITY On E28 Panel.				WASTAGE	1500	HRS.
PERIOD OPERATION TO BE PERFORMED EST. ACTUAL 25 Hr. Function Check (See Maintenance Instructions Report 71/Maint 11/10. 1 x 3 ACCESSIBILITY On E28 Panel. IBSUE 1 DATE October 28/57 COMPILED K.P.Lowe CHECKED WO2.Wentworth.	INSPECT	ION			MENXI	MINITES
Punction Check (See Maintenance Instructions Report 71/Maint 11/10. ACCESSIBILITY On E28 Panel. BSUE 1 DATE October 28/57 COMPILED K,P,Lowe CHECKED WO2, Wentworth.			OPERATION TO BE	PERFORMED		ACTUA
ACCESSIBILITY On E28 Panel. BISUE 1 DATE October 28/57 COMPILED K.F.Lowe CHECKED WO2.Wentworth.						
On E28 Panel. IBSUE DATE October 28/57 COMPILED K.P.Lowe CHECKED WO2.Wentworth.		x1 soci				
On E28 Panel. IBSUE DATE October 28/57 COMPILED K.P.Lowe CHECKED WO2.Wentworth.						
ISSUE 1 DATE October 28/57 COMPILED K.P.Lowe CHECKED WO2.Wentworth.			ACCESSIBILITY	* *		
DATE October 28/57 COMPILED K.P.Lowe CHECKED WO2.Wentworth.		$o_{\mathbf{n}}$	E28 Panel.			
DATE October 28/57 COMPILED K.P.Lowe CHECKED WO2.Wentworth.	ISSUE	1				
COMPILED K.P.Lowe CHECKED WO2.Wentworth.						
CHECKED WO2.Wentworth.						
		R.F.Reid.				

GROUND SUPPORT EQUIPMENT SPECIAL TOOLS FOR AIRCRAFT USE Nil GROUND TESTING EQUIPMENT Nil Maintenance Stand.		MATERIAL	LUBRICAT	FREQUENCY	ACCE	ess	
GROUND SUPPORT EQUIPMENT SPECIAL TOOLS FOR AIRCRAFT USE Nil OROUND TESTING EQUIPMENT Nil Maintenance Stand. MEN × MINUTER EST. ACTUA Disconnect 8 electrical connections. Remove 2 relay securing screws.	PPLICATION	MATERIAL				9 9070	APTER
GROUND SUPPORT EQUIPMENT SPECIAL TOOLS FOR AIRCRAFT USE Nil OROUND TESTING EQUIPMENT Nil Maintenance Stand. MEN × MINUTER EST. ACTUA Disconnect 8 electrical connections. Remove 2 relay securing screws.							
Nil GROUND TESTING EQUIPMENT Nil Maintenance Stand. NIERCHANGEABLE Disconnect 8 electrical connections. Remove 2 relay securing screws.	ETAILS:						ASSETTA
Nil GROUND TESTING EQUIPMENT Nil Maintenance Stand. NIL REMOVALINSTRUCTIONS MEN X MINUTES EST. ACTUA Disconnect 8 electrical connections. Remove 2 relay securing screws.			GROUND SUPPORT	EQUIPMENT			
REPLACEABLE Disconnect 8 electrical connections. Remove 2 relay securing screws.	SPECIA	L TOOLS FOR AIRCRAF	T USE	SPECIAL T	OOLS FOR BENCH	USE	
NIL Maintenance Stand. NIERCHANGEABLE X REMOVAL INSTRUCTIONS EST. ACTUA Disconnect 8 electrical connections. Remove 2 relay securing screws.		Nil				N/T	1175-21
NTERCHANGEABLE X REMOVAL INSTRUCTIONS EST. ACTUAL Disconnect 8 electrical connections. Remove 2 relay securing screws.	GRC	OUND TESTING EQUIPME	ENT	GROUND I	ANDLING EQUIPMEN	N1	
Disconnect 8 electrical connections. Remove 2 relay securing screws.		Nil	10	Maint	enance Stand.		
Disconnect 8 electrical connections. Remove 2 relay securing screws.	NAME OF A STATE OF A	DIF V		UST DUCTIONS		MEN × M	INUTES
Disconnect 8 electrical connections. Remove 2 relay securing screws.		BLE A	REMOVALI	NSTRUCTIONS		EST.	ACTUAL
				rews.	eplace	1x 10	

	AINTENANCE RO AIRCRAFT LTD.	DATA RECORD Engineering Div.	SYSTEM ELECTRICS	REF. NO. 11= E28/40 = 41
	ION: STANDARD + S.Brown. K.Knowlton.	A/C TYPE - Arrow 1 EFF. A/C - 25201	COMPONENT Relay- Transfer	L&R.
	'URER'S PART NO.		AVRO PART NO. M524144-1	(64)A-34
AVROCAN S	PEC. E	E.O. NO.		
ENVELOPE	SIZE3.735" X 4.03" Y	X 3.69" WEIGHT 2.30 LB.	REF. DWGS.	
LOCATION	On E28 Main Power of Bulkhead STA 48	Panel Duct Bay aft. 85.	7-1100-3 Sht	. 2.
FUNCTION	Re-distribute the of a R H alternato	A-C load in the event or failure.	REF. M.D.R. 11-E28	
			RELIABIL	ITY
			OVERHAUL LIFE 1500 WASTAGE Q.T.R.	HRS.
INSPEC		OPERATION TO BE PERFORMED		MEN × MINUTES
PERI	OD		All the second s	EST. ACTUAL

	OPERATION TO BE PERFORMED	MEN	MEN A MINUTES	
PERI	OD	EST.	ACTUAL	
	790	S. Same	JUES	
25 Hr.	Function Check (See Maintenance Instructions Report 71/Maint 11/10).	1 x 3		
	The in Notice constitute actions	0.000		
	freeze and Hopkess 1 x 1			
	ACCESSIBILITY			
	On E28 panel.		,	
SSUE	1			
ATE	October 28/57			
COMPILED	K.P.Lowe.			
HECKED	WOZ.Wentworth.			
PPROVED	R.F.Reid			

APPLICATION MATERIAL SPECIFICATION FREQUENCY ACCESS DETAILS: GROUND SUPPORT EQUIPMENT SPECIAL TOOLS FOR AIRCRAFT USE SPECIAL TOOLS FOR BENCH USE Nil GROUND TESTING EQUIPMENT GROUND HANDLING EQUIPMENT Nil Maintenance Stand. NTERCHANGEABLE X REMOVAL INSTRUCTIONS MEN × MINUTES			LUBRICAT	ION Nil			
GROUND SUPPORT EQUIPMENT SPECIAL TOOLS FOR AIRCRAFT USE SPECIAL TOOLS FOR AIRCRAFT USE SPECIAL TOOLS FOR AIRCRAFT USE SPECIAL TOOLS FOR BENCH USE NII GROUND TESTING EQUIPMENT GROUND HANDLING EQUIPMENT MAINTENANCEABLE X REMOVAL INSTRUCTIONS MEN X MINUTES EST. ACTUAL Disconnect 8 electrical connections. Remove 4 Relay securing screws. Remove and Replace 1 x 12	APPLICATION	MATERIAL	SPECIFICATION		A	CCESS	i p
CROUND SUPPORT EQUIPMENT SPECIAL TOOLS FOR AIRCRAFT USE SPECIAL TOOLS FOR AIRCRAFT USE SPECIAL TOOLS FOR BENCH USE Nil GROUND TESTING EQUIPMENT Maintenance Stand. NITERCHANGRABLE X REMOVAL INSTRUCTIONS MEN X MINUTES EST. ACTUAL Disconnect 8 electrical connections. Remove 4 Relay securing screws. Remove and Replace 1 x 12) David	THE PERSONNEL PROPERTY OF THE	o Labora	A - ERREDIA	C Caine	SATE INST	UNITTOO
SPECIAL TOOLS FOR AIRCRAFT USE SPECIAL TOOLS FOR BENCH USE Nil Nil GROUND TESTING EQUIPMENT GROUND HANDLING EQUIPMENT Wil Maintenance Stand. NTERCHANGEABLE X REMOVAL INSTRUCTIONS MEN X MINUTES EXPLACEABLE X ACTUAL Disconnect 8 electrical connections. Remove 4 Relay securing screws.		Transfer		- D/W.448	intent.		
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SPECIAL TOOLS FOR AIRCRAFT USE Nil Remove 4 Relay securing screws. SPECIAL TOOLS FOR BENCH USE NIL NIL REMOVAL INSTRUCTIONS MEN × MINUTES EST. ACTUAL ACTUAL		Marian					
Nil REPLACEABLE REMOVE 4 Relay securing screws. Remove and Replace Remove and Replace Remove and Replace Remove and Replace		ar, page	GROUND SUPPORT	EQUIPMENT	1 "EU_4 1 "EE	F.Fames	40 Jaans
GROUND TESTING EQUIPMENT NIT Maintenance Stand. NTERCHANGEABLE X REMOVAL INSTRUCTIONS MEN X MENUTES EST. ACTUAL Disconnect 8 electrical connections. Remove 4 Relay securing screws. Remove and Replace 1 x 12	SPECIAL	TOOLS FOR AIRCRAFT	USE	SPECIAL	TOOLS FOR BENCE	H USE	OFFADOR
GROUND TESTING EQUIPMENT NIT Maintenance Stand. NTERCHANGEABLE X REMOVAL INSTRUCTIONS MEN X MENUTES EST. ACTUAL Disconnect 8 electrical connections. Remove 4 Relay securing screws. Remove and Replace 1 x 12							
GROUND TESTING EQUIPMENT GROUND HANDLING EQUIPMENT Maintenance Stand. MEN X MINUTES EST. ACTUAL Disconnect 8 electrical connections. Remove 4 Relay securing screws. Remove and Replace 1 x 12		N		and all modules			
NITERCHANGEABLE X REMOVALINSTRUCTIONS MEN X MINUTES EST. ACTUAL Disconnect 8 electrical connections. Remove 4 Relay securing screws. Remove and Replace 1 x 12		NIT		Nil	Megratics II A		
NTERCHANGEABLE X REMOVAL INSTRUCTIONS MEN X MINUTES EST. ACTUAL Disconnect 8 electrical connections. Remove 4 Relay securing screws. Remove and Replace 1 x 12	GROUI	ND TESTING EQUIPMENT	r	GROUND	HANDLING EQUIPM	MENT	
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NTERCHANGEABLE X REMOVAL INSTRUCTIONS MEN × MINUTES EST. ACTUAL Disconnect 8 electrical connections. Remove 4 Relay securing screws. Remove and Replace 1 x 12							
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Disconnect 8 electrical connections. Remove 4 Relay securing screws. Remove and Replace 1 x 12			THE PERFORMEN	MORE ARROW		HORTON	TEST
Disconnect 8 electrical connections. Remove 4 Relay securing screws. Remove and Replace 1 x 12		ЕХ	REMOVAL IN	STRUCTIONS			
Un 228 parel. Series		A			American I		
REUR CARL SELTY CONTRACT CONTR	REPLACEABLE Dis	connect 8 electr	ical connections	daties and steam	place	EST.	
DATE CONTRACT K.P. Journ	REPLACEABLE Dis	connect 8 electr	ical connections	Remove and Rep	lace	EST.	
DATE CONTRACT K.P. Journ	REPLACEABLE Dis	connect 8 electric	ical connections	Remove and Rep		EST.	
DATE CONTRACT K.P. Journ	REPLACEABLE Dis	connect 8 electric	ical connections	Remove and Rep		EST.	
Code p.sp K.P. Loud	Replaceable Dis	connect 8 electric	ical connections	Remove and Rep		EST.	ACTUAL
Concessor Vielle auctionally	Replaceable Dis	connect 8 electric	ical connections	Remove and Rep		EST.	ACTUAL
	Replaceable Dis	connect 8 electric	ical connections	Remove and Rep		EST.	ACTUAL

		ATA RECORD	SYSTEM ELECTRICS	REF. NO. 11-E28/6
AVRO AIRCRAF		Engineering Div.	COMPONENT	11-120/0
		A/C TYPE - Arrow 1	Relay-	
S.Brown. K.Knowlt		EFF. A/C - 25201		Cut Out
		~ <i>)</i> ~01	D-C Shedding	cut-out.
MANUFACTURER'S PAR	RT NO.		AVRU PARI NO.	
MANUFACTURER'S NAM	/E		CS-R-122	
AVROCAN SPEC.	E.O.	NO.		
envelope size 2.60)" X 2.50" X 2	.125" WEIGHT 0 . 44 LB.	REF. DWGS.	2-1-0
LOCATION On E28 A STA 485.	ain power pan	el duct bay aft of blkh!d	7-1100-3 S	ont Z.
L.H T.R.	.U. and its con	by a supply from the ntacts complete a circuit to the D-C bus.shedding	REF. M.D.R. 11-E28	
control	relay. A failt	are of either T.R.U. will	RELIA	BILITY
effect a	a shedding of	the D.C. Shedd bus.	OVERHAUL LIFE WASTAGE Q.T.R.	HRS.
INSPECTION		OPERATION TO BE PERFORME		MEN × MINUT
PERIOD		OF BEATION TO BE PERFURME		EST. ACT
8 1 L				
	one control			
	· · · · · · · · · · · · · · · · · · ·	ACCESSIBILITY		
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ISSUE	On E 6 P			
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APPROVED R.F.Reid.

APPLICATION	MATERIAL	SPECIFICATION	FREQUENCY	ACC	CESS	W.A.
	THERMOSTA	STEER TEATION	PREQUENCY	ACC ACC	LSS	TUDISTRIC
	v-valud.		- 21w 410			
DETAILS:	Suresient and				witte . A	
		GROUND SUPPORT	EQUIPMENT	ALC: UNA	U.SATE S	MOJEVNS
SPECIAL	TOOLS FOR AIRCRAFT	r use	SPECIAL T	OOLS FOR BENCH	USE	
GROU	Nil	Jim it a ni	GROUND H	ANDLING EQUIPMEN	NT	scher haten
2907	ENGLISHMENT AND ADDRESS.	Va	Date of Call of			
NTERCHANGEABI	Nil	094804834 48 67	Maintena	nce Stand.		
NIERCHANGEABI						
REPLACEABLE	LE X	REMOVAL INS	TRUCTIONS		MEN X I	ACTUAL
REPLACEABLE D	Amunion carea	rical connections	(Let mad) Sports of Values			
REPLACEABLE D	isconnect 4 elect	rical connections	5		EST.	
REPLACEABLE D	isconnect 4 elect	crical connections	5		EST.	
REPLACEABLE D	isconnect 4 elect	crical connections	Remove and re	place	EST.	

MAINTEN	ANCE	DATA RECORD	SYSTEM ELECTRICS	REF. NO. 11-E28/66
AVRO AIRCRAFT	LTD.	Engineering Div.	ELECITIOS	11-520/00
DISTRIBUTION: STANDARI		A/C TYPE - ARROW 1	COMPONENT Relay -	
S. Brown			D-C Bus Shedding	Control
K. Knowlton	n	EFF. A/C - 25201	D-0 Dus Medding	30110101
MANUFACTURER'S PART 1	NO.		AVRO PART NO.	:Darated
			MS24141-1	
MANUFACTURER'S NAME			11000 111111111111111111111111111111111	
AVROCAN SPEC.	E.0	. NO.		
ENVELOPE SIZE 3.25	" x 3.64" x	2.925" WEIGHT 1.35 LB.	REF. DWGS.	
		and the second	7-1100-3 Sh	t. 2
		anel. Duct bay aft of		
bulkhead	Sta. 485.		100000000000000000000000000000000000000	
		led by a supply from	REF. M.D.R.	5.417
		out relay. In the of either L.H. or R.H.	11-E28	
T.R.U. i	t will open	and shed the D.C.	RÉLIABILI	TY
Shedd. b	us.		O.M.D.	
			OVERHAUL LIFE 1500 WASTAGE	HRS.
			Q.T.R.	
INSPECTION		OPERATION TO BE PERFORME	ED	MEN × MINUTES
PERIOD		300000000000000000000000000000000000000		EST. ACTUA
	71/Maint	. CLETTOR	gnitudes valet 5 ev	1 x 2
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. 8×1				
6 x 1				
6 x 3			·	
6 × 4				
6 × 3				
	*	ACCESSIBILITY		
6 × 3		A C C E S S I B I L I T Y		
		A C C E S S I B I L I T Y	soome paral	
	On Fi. 2			
	On E-2	ACCESSIBILITY 8 panel.	in the same paral	
	On E-2		account paral.	
	On E-2			
ISSUE]	On E-2			
ISSUE 1 DATE Oct. 28/5				
	57			
DATE Oct. 28/5	57			

APPROVED R.F. Reid

PPLICATION	MATERIAL	SPECIFICATION	TION Nil	A	CCESS	
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londred.	gradatent are ful					
	Knowlets	9 9 10	- POLASERA	<u>10</u>	fundid vi	
ETAILS:						
	ADWIT WE		.01. 10.	4	.0390	AVROCAN
CDECIAL		GROUND SUPPOR		COOLS FOR BENCE	u lieb	ZMVSLOPS
SPECIAL	TOOLS FOR AIRCRAFT	USE	SPECIAL	OOLS FOR BENCE	n USE	ROTTADQL
45.125						
Nil		19	Ni	o in Internal		
GROUN	ND TESTING EQUIPMENT	•	GROUND I	HANDLING EQUIPM	ENT	- 191
		9				
Nil			Ma	intenance St	andard.	
		- 1				
		calesoneana me				
TERCHANGEABLI	2 X	REMOVALI	NSTRUCTIONS		MEN X	MINUTES
TERCHANGEABLE EPLACEABLE Disc		2002	NSTRUCTIONS	a./dznya	MEN × EST.	MINUTES
EPLACEABLE Disc	onnect 4 electric we 2 relay securi	cal connections	cand a(C) anama			
EPLACEABLE Disc	onnect 4 electric	cal connections ing screws Remove and	cand a(C) anama	TANA TANA	EST.	
EPLACEABLE Disc	onnect 4 electric	cal connections ing screws Remove and	replace:	A denvis	EST.	
EPLACEABLE Disc	onnect 4 electric	cal connections ing screws Remove and	replace:		EST.	
EPLACEABLE Disc	onnect 4 electric	cal connections ing screws Remove and	replace:		EST.	
eplaceable Disc	onnect 4 electric	cal connections ing screws Remove and	replace:		EST.	

	ENANCE D	DATA RECORD	SYSTEM	REF.	NO.	
AVRO AIRCRA			ELECTRICS	11-E	28/83-8	
DISTRIBUTION: STAN		Engineering Div.	COMPONENT			
S.Brown	DARD 1					
K.Knowlton		EFF. A/C - 25201	Main Failure D	etector		
MANUFACTURER'S PA	RT NO.		AVRO PART NO.		ewi es	
MANUFACTURER'S NA	ME Canadian I	Diaphlex	7-1156-1	1		
avrocan spec. E=2	296 E.o.	NO.				
ENVELOPE SIZE 5	125" x 2.35" x	2.35" WEIGHT 1.25 LB.	REF. DWGS. 7-1156-36			
762	1. 2.077 1.	2000	7-1156-37			
LOCATION Trays 1	No. 1 & 2 on ma	ain power panel E-28	7-1156-38 7-1100-3			
FUNCTION To indi	icate A.C.Power	r failure or phase	REF. M.D.R. 11-E28/1			
reversa		n of a warning light in	11-E28/2 11-E28/3			
prior	J COCKPIO.		RELIABIL	IT Y		
			OVERHAUL LIFE 1500 WASTAGE Q.T.R. Pending		HRS.	
INSPECTION		OPERATION TO BE PERFORME	· D	MEN X I	MINUTES	
PERIOD		OF ERATION TO BE PERFORME		EST.	ACTUAL	
25 hrs.	Function chec	ors for security and damage ok the detectors. Ance instructions report 71		2 x 10	1 1 1 1 1 1	
	(zee marntens			<u>.</u>		
	(zee marntens			8		
	(zee maintens					
	(See maintens	ACCESSIBILITY				

January 3/57 D.Collingwood

WO2 Wentworth

R.F.Reid

April 11/56 D.Collingwood

G.Emmerson

4

K.P.Lowe

R.F.Reid

October 25/57

WO2 Wentworth

ISSUE

DATE

COMPILED

CHECKED

APPROVED

March 18/55 C.Wright

G. Emmerson

		LUBRICATIO	Nil Nil	DANALHITE	N.
PPLICATION	MATERIAL	SPECIFICATION	FREQUENCY	ACCESS	
	344400	4 4 4 4 4	2-2474-2-7	A DEADHARE INDIVI	CHETTED .
10,000,0	I semilar nea		87 F. L/C -		Y
ETAILS:					ATURAN
					ANURAM .
					WS/New A
		GROUND SUPPORT	EQUIPMENT	C 10 Dec 2 30500	CHARKE
SPECIAL TOOLS FOR AIRCRAFT USE			SPECIAL TOOLS	S FOR BENCH USE	
	Lowelland by				
					XXX AVE
	Nil	TA TON	Nil		
				pinting societies	
GROU	ND TESTING EQUIPMEN	T	GROUND HAND	LING EQUIPMENT	
231	MORT SEE THATES	6			
		6.			
A -	- C Ground Power	Unit	Maintenance St	and.	
	-10 - Y	centernana de la	HOLEKSTERS	- Well-19	
NTERCHANGEABL	E X	REMOVAL INS	STRUCTIONS	MEN X M	
EPLACEABLE		The state of the s	lauras sel series	EST.	ACTUAL
				LANDERSON DE	
	Remove trave 1	& 2 from E28 pane	1.	4.60	
1.	itemove braje i	a 2 210m = 20 p====			
2.	Disconnect 1 el	ectrical connecto	r from detector.		
2.	Disconnect 1 el		r from detector.		
2.	Disconnect 1 el	ectrical connecto	r from detector.		
2.	Disconnect 1 el	ectrical connecto	r from detector.	1 x 10	
2.	Disconnect 1 el	ectrical connecto	r from detector.	l x 10	
2.	Disconnect 1 el	ectrical connecto	r from detector.	l x 10	
2.	Disconnect 1 el	ectrical connecto	r from detector.	l x 10	
2.	Disconnect 1 el Remove 4 - 8/32	ectrical connecto	Remove and replace		
2.	Disconnect 1 el Remove 4 - 8/32	ectrical connecto	r from detector. Remove and replace	* avorati	
2.	Disconnect 1 el Remove 4 - 8/32	ectrical connecto	r from detector. Remove and replace		
2.	Disconnect 1 el Remove 4 - 8/32	ectrical connecto	r from detector. Remove and replace	* avorati	
2.	Disconnect 1 el Remove 4 - 8/32	ectrical connecto	r from detector. Remove and replace	* avorati	
2.	Disconnect 1 el Remove 4 - 8/32	ectrical connecto	r from detector. Remove and replace	* avorati	
2.	Disconnect 1 el Remove 4 - 8/32	ectrical connecto	er from detector. Remove and replace	* avorati	
2.	Disconnect 1 el Remove 4 - 8/32	ectrical connecto mounting screws.	r from detector. Remove and replace	* avorati	Seption
2.	Disconnect 1 el Remove 4 - 8/32	ectrical connecto mounting screws.	er from detector. Remove and replace	S. eventile has JAII	

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MA	INTENANCE	DATA RECORD	SYSTEM	REF. NO.
AVRO	AIRCRAFT LTD.	Engineering Div.	ELECTRICS	11-E47
DISTRIBUTIO	N: STANDARD +	A/C TYPE - Arrow I	COMPONENT	
S	S.Brown	EFF. A/C - 25201	Panel-Eme	
K	K.Knowlton.	DFF. N/O = 2)2UI	Alternato	or Limiter.
MANUFACTU	RER'S PART NO.		AVRO PART NO.	DETAILS
1			7-1156-485	
MANUFACTU	RER'S NAME		1270-407	
AVROCAN SP	PEC. E.O	. NO.		
			REF. DWGS. 7-1156-48	5-Sht.2
ENVELOPE S	DLC E	WEIGHT LB.	7-4619-1 7-1100-3	Sht 0
LOCATION	In Duct Bay L. H. Side	9	7-1100-3	D110 Z.
	In Duct Bay L.H.Side Between STA's 494 and	nd 499		
Direct	0.71	The late and		
		r The 'A' - 'B' and 'C' e Emergency Alternators.	REF. M.D.R. 11-E253	
P	hase offcults of the	o Pulot Boney Albernators.	エエーじんりろ	
			RELIABIL	ITY
			OVERHAUL LIFE 1500	HRS.
			WASTAGE 1500	AKS.
			Q.T.R.	
INSPECT	TION			MEN × MINUTES
PERIO		OPERATION TO BE PERFORME		EST. ACTUA
INSTITUTE !	783	THE TANK THE		
	formers on the formers of the second of the			
		ACCESSIBILITY		
Guerlan		ACCESSIBILITY	constable constable	
	Through Electrical	ACCESSIBILITY Equipment Access Panel - 74	Camlocs.	
	Through Electrical		Camlocs.	
	Through Electrical	Equipment Access Panel - 74		
	Through Electrical			1 x 7½
	Through Electrical	Equipment Access Panel - 74		1 x 7½
	Through Electrical	Equipment Access Panel - 74		1 x 7½
ISSUE	or boar - Nome to La	Equipment Access Panel - 74		l x 7½
SSUE DATE	October 28/57	Equipment Access Panel - 74		1 x 7½
ISSUE DATE COMPILED	October 28/57 K.P.Lowe	Equipment Access Panel - 74		1 x 7½
SSUE DATE	October 28/57	Equipment Access Panel - 74		l x 7½

		LUBRICATIO	Nil Nil			
APPLICATION	MATERIAL	SPECIFICATION	FREQUENCY	AC	CCESS	the second
	TRANSO	mon .	- ANT TAR	- GEAGN	SALA HOIT	URSATEIG
	S1-18/U1			0 7 7		
- wall and it	JUMESTA			Long	MONN, N	
DETAILS:				OM THA	TURERY S	MANURAM MANURAM AVROCAN
A COLUMN	1	GROUND SUPPORT			Asset	and since
SPECIAL	TOOLS FOR AIRCRAF	T USE	SPECIAL 1	rools for BENCH	I USE	DITAGOS
	Nil	130 - 130 - 130 V10000000000000000000000000000000000	d construction of	Nil	sesvali l	G1729(03)
GROU	ND TESTING EQUIPME	NT	GROUND	HANDLING EQUIPM	ENT	
STEET OF A SHIPLE	Nil	7.0 7.0	Mainten	ance Stand.		
INTERCHANGEABLE	JE X	REMOVAL INS	TRUCTIONS		MEN × M	
REPLACEABLE Dis		cical connections	TRUCTIONS			MINUTES ACTUAL
REPLACEABLE Dis	connect 6 electr	cical connections	Remove and rep	lace		
REPLACEABLE Dis	connect 6 electrove 4 panel secu	rical connections aring screws.		lace	EST.	
REPLACEABLE Dis	connect 6 electrove 4 panel secu	rical connections aring screws.	Remove and rep	lace	EST.	
REPLACEABLE Dis	connect 6 electrove 4 panel secu	rical connections aring screws.	Remove and rep	lace	EST.	

MAINTENANCE	DATA RECORD	SYSTEM	REF. NO.
AVRO AIRCRAFT LTD.	Engineering Div.	ELECTRICS	11-E139/1-2
DISTRIBUTION: STANDARD + S.Brown K.Knowlton	A/C TYPE - Arrow I EFF. A/C - 25201	COMPONENT Control Unit - Rectifie	
MANUFACTURER'S PART NO. 60900 MANUFACTURER'S NAME Lucas Rota:	x	AVRO PART NO. 7-1156-17	William A.
AVROCAN SPEC. E_202 E.C	0. NO.		
ENVELOPE SIZE 27.0" X 13. 0" X LOCATION Forward of Stn. 538.	JA15/940-	REF. DWGS. 7-1100-2 7-1156-1 7-1156-1 7-1100-3	.2 .5
Transform and recting supply to 28,55	fy 115/200 V.A.C. 3 Ø	REF. M.D.R.	
		RELIABII	LITY
		overhaul life 1500 wastage q.t.r. Pendin	

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INSPECT	TION	OPERATION TO BE PERFORMED				MINUTES
PERIO	OD			1.81	EST.	ACTUAL
	1100				77.0	Louise
Primary		t external connection ent.			1 X 5	
25 hrs	for se Replace	unit from housing curity and damage e unit and carry nance instruction	out a function ch	eck.(See	1 X 30	
Ingnasti	ion Romove	ACCESSIBIL		nnel // comlece		
Inspecti	<u>ion</u> - Remove l	ACCESSIBIL R.H. Electrical ed			1 X 4½	
	of Unit - Remo		quipment access pa	ce	1 X 4½	
	of Unit - Remo	R.H. Electrical edve L & R Electrical camlocs.	quipment access pa	ce ss panels	1 X 4½	
Removal	of Unit - Remo	R.H. Electrical edve L & R Electrical camlocs.	quipment access particle. Remove and replaced access particle.	ce ss panels		
Removal	of Unit - Remo	R.H. Electrical edve L & R Electrical camlocs.	quipment access particle. Remove and replaced access particle.	ce ss panels e		
Removal SSUE	<u>of Unit</u> - Remo - 74	R.H. Electrical edve L & R Electrica camlocs.	Remove and replaced all equipment access possible and replaced access and Replaced access and Replaced access and Replaced access ac	ce ss panels		
	of Unit - Remo - 74	R.H. Electrical edve L & R Electrical camlocs.	Remove and replace al equipment acce Remove and Replace 3 January 10/57	ss panels e 4 October 25/57		

and the second	16373	LUBRICATI	on Nil	INTEHANCE	A 14
PPLICATION	MATERIAL	SPECIFICATION	FREQUENCY	ACCESS	AVE
		all was	AY- adla grv d		
		ope LOS	52 - 3/4/2323		
ETAILS:	OW THAT DR	/24		LID AT THE STATE STATE	TOATURAN
- 11/4			2011-013	0.00770 1088	AVERDANT
95 / 152	2-0011-1 space A	GROUND SUPPORT	EQUIPMENT	en de gint se auc	eren favea
SPECIAL T	TOOLS FOR AIRCRAFT	USE	SPECIAL TO	OOLS FOR BENCH USE	
	Nil		Ni	il	
			7 (0 (0 (0 (0 (0 (0 (0 (0 (0 (AND DIG FORMAN	
GROUNI	D TESTING EQUIPMEN		GROUND H.	ANDLING EQUIPMENT	
	and Power Unit	7		ccess Stand	
Electric	cal Power System	est Unit	Maintenand	ce Stand	
NTERCHANGEABLE	X	REMOVAL INS	TRUCTIONS	MEN ×	MINUTES
EPLACEABLE		A E MOTAL ING		EST.	ACTUAL
					appears !
				Inestida Jan	
1.	. Remove termina	l strip covers.		ATTI BYOUTH	and the
2.	Disconnect ext	ernal wiring from	m unit.	audicinal Lenianius	
				District Con-	
3.	, Kemove 6 screw	s and withdraw u	nit from case		
					4
			1 7 7		
		Ker	move and Replace	1 X 20	0
		Rei	move and Replace	1 X 20	
				1 X 20	
			move and Replace	1 X 20	
				1 X 20	
				Maria Maria de la compania del compania del compania de la compania del compania	
				Maria Maria de la compania del compania del compania de la compania del compania	
				Maria Maria de la compania del compania del compania de la compania del compania	
				Mark and the second of the sec	

AVRO AIRCR. DISTRIBUTION: STAN S. Bro K. Kno		уриворяму.	ECORD	ELE CTRICS	REF. NO. 11-E164
S. Bro K. Kno		A/C TYPE -	Arrow 1	COMPONENT	
K, Kno		A/C TYPE -	AITOW I	Relay - Ground	4
		EFF, A/C -	25201	Fault R.H.	1
MANUFACTURER'S PA				1 3010 10,110	
	ART NO. GS-13	010-1		AVRO PART NO.	4
				CS-R-123	
MANUFACTURER'S NA	AME Lucas	Rotax			
AVROCAN SPEC.	E360	E.O. NO.			
4			T SANGER AND	REF. DWGS.	
ENVELOPE SIZE 8.	0" x 7.25"	x 3.5" WERG	нт 4.0 LB.		
LOCATION Duct B	av at stn.	532 - R/H		7-1156-225 7-1100-2 sht 2	06
		7777		7-1100-2 sht 2	
:h_ 16/4		1442			
FUNCTION Transm	its a signa	l to the right	T.R.U. in the	REF. M.D.R.	
event	or a ground	fault occuring e right alterna	and causes	13 D2/C	
a Snut	down of th	e takur arrerna	.cor.	11-E163	
				RELIABILIT	Y
				OVERHAUL LIFE 1500	HRS.
				WASTAGE	
	Your got			Q.T.R. Pending	
INSPECTION	T	ODED A SIZE	W 50 50 50 50		MEN × MINUTE
PERIOD		OPERATIO	ON TO BE PERFORME		EST. ACTU
Primary			rity and damage, nector for secu		1 x 3
Primary	Remove	ACCESSIBIL	nector for secur	ent access panel	encos e e e e e e e e e e e e e e e e e e e
ssue Apr. 1	Remove (44 ca	ACCESSIBIL right hand ele	nector for secur	ent access panel	x 4½
Primary					1 x 3

		LUBRICATI	ON NIT			
APPLICATION	MATERIAL	SPECIFICATION	FREQUENCY	A	CCESS	VA.
	THEAGRA	2 1 3109-11	- 3497 DVA	+ 9840		
	berrael - valet			Lat. On		
	Mat Jana 4	25201	- 27K. A/C -	mali	pal il	
DETAILS:						
		GROUND SUPPORT	EQUIPMENT			
SDECIAL	L TOOLS FOR AIRCRAFT		Tanks	rools for BENC	u iist	90.130/9/3
SPECIAL	L TOOLS FOR AIRCRAFT	USE	SPECIAL .	TOOLO FOR BENC	L down	IOTZADO I
	NIL	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	NIL			
		THE PART OF THE PA	T the read of			
		anguan his				
		-1	plantells Imia	entitio meda	Martin E	
GRO	UND TESTING EQUIPMEN	T	GROUND 1	HANDLING EQUIPA	ENT	
A-C Ground	l Power Unit		Maint	enance Stand		
			1100.6110			
economy of second		Control of the Contro			нетэ	985
NTERCHANGEAB	LE X				L MEN V	MINUTES
		REMOVALINS	TRUCTIONS			
REPLACEABLE		ármasa kat taka	TRUCTIONS	1575	EST.	ACTUAL
l. Disconne 2. Disconne 3. Disconne 4. Withdraw	ect 1 electrical of ect 3 ground wires ect 3 power wires wires from relay mounting bolts.	connector, from grounding from R/H T.R.U.	ennoa Leptyschia			
l. Disconne 2. Disconne 3. Disconne 4. Withdraw	ect 1 electrical of ect 3 ground wires ect 3 power wires wires from relay	connector, from grounding from R/H T.R.U.	point	ace	EST.	
l. Disconne 2. Disconne 3. Disconne 4. Withdraw	ect 1 electrical of ect 3 ground wires ect 3 power wires wires from relay	connector, from grounding from R/H T.R.U.	ennoa Leptyschia	ace		
l. Disconne 2. Disconne 3. Disconne 4. Withdraw	ect 1 electrical of ect 3 ground wires ect 3 power wires wires from relay	connector, from grounding from R/H T.R.U.	point	ace	EST.	
l. Disconne 2. Disconne 3. Disconne 4. Withdraw	ect 1 electrical of ect 3 ground wires ect 3 power wires wires from relay	connector, from grounding from R/H T.R.U.	point	ace	EST.	
l. Disconne 2. Disconne 3. Disconne 4. Withdraw	ect 1 electrical of ect 3 ground wires ect 3 power wires wires from relay	connector, from grounding from R/H T.R.U.	point	ace	EST.	
l. Disconne 2. Disconne 3. Disconne 4. Withdraw	ect 1 electrical of ect 3 ground wires ect 3 power wires wires from relay	connector, from grounding from R/H T.R.U.	point	ace	EST.	
l. Disconne 2. Disconne 3. Disconne 4. Withdraw	ect 1 electrical of ect 3 ground wires ect 3 power wires wires from relay mounting bolts.	connector, from grounding from R/H T.R.U.	point	ace	EST.	
l. Disconne 2. Disconne 3. Disconne 4. Withdraw	ect 1 electrical of ect 3 ground wires ect 3 power wires wires from relay mounting bolts.	connector. from grounding from R/H T.R.U.	point Remove and Repl		EST.	
l. Disconne 2. Disconne 3. Disconne 4. Withdraw	ect 1 electrical of ect 3 ground wires ect 3 power wires wires from relay mounting bolts.	connector, from grounding from R/H T.R.U.	point Remove and Repl		EST.	
l. Disconne 2. Disconne 3. Disconne 4. Withdraw	ect 1 electrical of ect 3 ground wires ect 3 power wires wires from relay mounting bolts.	connector. from grounding from R/H T.R.U.	point Remove and Repl		EST.	
1. Disconne 2. Disconne 3. Disconne 4. Withdraw 5. Remove 4	ect 1 electrical of ect 3 ground wires ect 3 power wires wires from relay mounting bolts.	connector. from grounding from R/H T.R.U.	point Remove and Repl		EST.	
1. Disconne 2. Disconne 3. Disconne 4. Withdraw 5. Remove 4	ect 1 electrical of ect 3 ground wires ect 3 power wires wires from relay mounting bolts.	connector. from grounding from R/H T.R.U.	point Remove and Repl		EST.	
1. Disconne 2. Disconne 3. Disconne 4. Withdraw 5. Remove 4	ect 1 electrical of ect 3 ground wires ect 3 power wires wires from relay mounting bolts.	connector. from grounding from R/H T.R.U.	point Remove and Repl		EST.	
1. Disconne 2. Disconne 3. Disconne 4. Withdraw 5. Remove 4	ect 1 electrical of ect 3 ground wires ect 3 power wires wires from relay mounting bolts.	connector. from grounding from R/H T.R.U.	point Remove and Repl		EST.	ACTUAL
1. Disconne 2. Disconne 3. Disconne 4. Withdraw 5. Remove 4	ect 1 electrical of ect 3 ground wires ect 3 power wires wires from relay mounting bolts.	connector. from grounding from R/H T.R.U.	point Remove and Repl		EST.	ACTUAL
1. Disconne 2. Disconne 3. Disconne 4. Withdraw 5. Remove 4	ect 1 electrical of ect 3 ground wires ect 3 power wires wires from relay mounting bolts.	connector. from grounding from R/H T.R.U.	point Remove and Repl		EST.	ACTUAL

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A M	INTENANC	E DATA RE	CORD	YSTEM	REF. NO.	
AVRO	AIRCRAFT LTD.	Engir	neering Div.	ELECTRICS	11-E-191	
S.Br	N: STANDARD + OWN NOW1ton	A/C TYPE - A EFF. A/C - 2	rrow l	OMPONENT Alternator L	& R.	
		A	VRO PART NO.	0.21.49.00		
MANUFACTUI	rer's part no. 60 RER'S NAME Luca: EC. E-202			7-112	5-11	
			R	EF. DWGS.		
	IZE 11.25" X 1. Engine Nose B	т 52.38 гв.	7-1100-2 S 7-1100-3 S			
phase to	ground and 2	ernating current at 00 volts - phase to stem. Controlled by	phase, to	EF. M.D.R. 11-E-139		
control				RELIABIL	. IT Y	
				overhaul life Pending Hrs. wastage q.t.r. Pending		
INSPECT	ion	ODERA TIO	N TO BE PERFORMED		MEN × MINUTE	
PERIO	OD C	OPERA IIO	. 10 DE LERFORMED		EST. ACTU	
25 hrs. Aero Engi 25 hrs. Electrics	Remov slip Check Check	alternator for sec e slip-ring end cov - ring for both ecc wiring to alternat output during engi uctions Report 71/N	vers, check brushe centricity and sco for for security a ne run. (See main MAINT 11/10).	oring. and damage.	1 X 5	
		With engir	TY ne removed from A	ircraft.		
ISSUE	1	2	3	4		
			7 0/50		1	
DATE	March 18/56	April 11/56	January 3/57	October 25/57		
	March 18/56 C.Wright	April 11/56 D.Collingwood	D.Collingwood	October 25/57 K.P.Lowe		
DATE						

R.F.Reid

R.F.Reid.

CHECKED APPROVED

		LUBRICATI	ION Nil	
APPLICATION	MATERIAL	SPECIFICATION	FREQUENCY	ACCESS
	Try and the	000	A SHALL DAY	STRIBUTION- REARDARD F
	A tomator LA	(Table	ES - DIA NEW	a de ministra de la companya della companya della companya de la companya della c
DETAILS:				A. Krowillego
SPECIAL	TOOLS FOR AIRCRAFT	GROUND SUPPORT		OOLS FOR BENCH USE
	Nil	Actor City	N:	il
GROU	ND TESTING EQUIPMEN	г	GROUND H	ANDLING EQUIPMENT
Electrical	arting equipment L Power System Te	st Unit	Engine remo	oval equipment e Stand
TERCHANGEABL:	E			MANY V MANY
NTERCHANGEABLE	EX	REMOVAL INS	TRUCTIONS	MEN × MINUTES EST. ACTUAL
l. Remo 2. Disc 3. Remo	ove fairing by reconnect cables from con	leasing 6 clips. om alternator. stant speed drive ard from constant	e attachment stud	EST. ACTUAL
l. Remo 2. Disc 3. Remo	ove fairing by reconnect cables from con	leasing 6 clips. om alternator. stant speed drive ard from constant Remo	e attachment stud speed unit.	EST. ACTUAL
l. Remo 2. Disc 3. Remo	ove fairing by reconnect cables from con	leasing 6 clips. om alternator. stant speed drive ard from constant Remo	e attachment stud speed unit.	EST. ACTUAL

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MAINTE	NANCE	DATA RE	CORD	SYSTEM HYDRAULICS	19-61 11E-253
AVRO AIRCRA	FT LTD.	Engine	ering Div.	UTILITY	11E-253
ISTRIBUTION: STAND		A/C TYPE -Ar		COMPONENT	Potton II
					Power Unit -
D. Roy S. Bro		EFF. A/C -	25201	Hydraulically	DI-TAGII
K. Kno			<u> </u>	AVRO PART NO.	
MANUFACTURER'S PA	RT NO. EA 5	0209		ATRO FARI NO.	
ANUFACTURER'S NA	, =			7-1956-56	7
AVROCAN SPEC. E_	506 E.C), NO.			
ENVELOPE SIZE 1	0" x 6" x 7"	WE IGHT	12 LB	REF. DWGS.	
LOCATION Duct	Bay Sta. 500	approx. L.H. S	ide	7-4619-1 (: 7-1100-3 SI	instn) nt. 2
double	vide limited engine "flam electrical s	AC current in me-out" or fail systems.	case of ure of	REF. M.D.R.	
	A selec			RELIABI	LITY
	5.9			overhaul Life 100 wastage o.t.r. Pending	(running) HRS.
				A.I.w. I CHOTHE	
INSPECTION		AD204 MIC.	TO BE PERFORI	WED.	MEN × MINUTES
PERIOD		OPERATION	10 DE PERFORI	neo	EST. ACTUA
		199172791			
- 100 /A					1 2 2
Primary:-	1				lxl
A ÷ C	Vicus				
Airframe	Visual Check wirir	ng for security			1 x 1
Electrics	Check willi	ie tot security			- ^ -
25 hours	Check for T	leaks, damage c	racks and se	curity.	11 220
Airframe Electrics	Carry out f	Functional chec 1/2. With pack	k as per mai running chec	ntenance report k output voltage. 71/Maint 11/10)	1 x 5
	,				- 40
	,				
	1	ACCESSIBILI	TY		
		A C C SUIDIE!		The state of the s	
	ም ኬ ማል፡	ugh Electrical	Equipment Ac	cess Panel	
	Inro	ign Electrical 74 camlocs		Cess raller	
			- Remove an	d replace	$1 \times 7^{\frac{1}{2}}$
ISSUE	1	2			
		Oct. 23/57			
	eanland	K.P. Lowe			
00		C. Beanland			
CHECKED Sgt.	Foster	O. Dealitalia	ļ		

APPROVED R.F. Reid

R.F. Reid

PPLICATION		LUBRICATION	Nil		
	MATERIAL	SPECIFICATION	FREQUENCY	ACCESS	MA
ALIO STORY	Tipe III	1 00001	- 2000000 1		THE HT ALC
ETAILS:	CONTRACTOR NAV		onl stell	TURENT BARE VILLE SPEC. STORY	CANDRAIL CANDRAIL CANDRAIL
		GROUND SUPPORT E		THE OF THE ROPE	DOLLARVIES.
SPECIAL TO	Nil	USE		Nil	NATE NO.
GROUND	TESTING EQUIPMENT		GROUND HAND	DLING EQUIPMENT	
	ulic Test Machi Ground Power Uni			Nil	
NTERCHANGEABLE	x	ASMARKAL (19) PER		MEN X	MINUTES
EPLACEABLE		REMOVAL INST	RUCTIONS	EST.	ACTUAL
<u>Airfr</u> l. Re	James America	from utility systemulic lines.	em.	A SCHOOL OF THE	
2. Di 3. Re		Remove and Rep	place	1 x20	
2. Di 3. Re			place	1 x20	
Elect		Remove and Rep	place	1 x20	
Elect	<u>rics</u> nnect l electri	Remove and Rep		1 x20	
Elect	<u>rics</u> nnect l electri	Remove and Reposal connector			W11447
Elect	<u>rics</u> nnect l electri	Remove and Reposal connector			10 (A)

MAINTENANCE AVRO AIRCRAFT LTD.	DATA RECORD Engineering Div.	HYDRAULICS UTILITY	REF. NO. 19-57 11-E-259
DISTRIBUTION: STANDARD + S. Brown D. Royston	A/C TYPE - Arrow 1 EFF. A/C - 25201	COMPONENT Valve; Hy Shut-Off Solenoid	
MANUFACTURER'S PART NO. 3096 MANUFACTURER'S NAME Maro AVROCAN SPEC. E-510 E	tta Valve Corp.	AVRO PART NO. 7-1956	<u>-5</u> 69
SBO HONZIO NOT ELIGINA	weight 1.0 lb. LB.	7-4619-1(I 7-1100-3 S	
FUNCTION To regulate supply an emergency hydro	y of hydraulic fluid to aulic motor.	REF. M.D.R.	
		RELIABILI	TY
		OVERHAUL LIFE 150 WASTAGE Q.T.R. Pending	

MEN Y MINITER

INSPECTION	N	OPERATION TO BE PERFORMED				MINUTES
PERIOD	True I				EST.	ACTUAL
	23				Z IN A Z	LINE
Primary -	Visual				1 X 1 1 2	
Airframe	With Au				g katt	
25 hours	A Delayer				Adda - 3	
Airframe	Check fo	or security, lea	aks, cracks and da	amage.	lXl	
25 hours Electrics	Function		ctor for security Maintenance Instru		T) ILA	
	X Z					1
					al and	
	X 2					
		ACCESSIBIL	.ITY			
Through ele	ectric equipmen	nt panel - 74 ca	mlocs.		1 X 7½	
ISSUE	1	2				
	anuary 2/57	Oct. 23/57				
	. Beanland	K.P. Lowe			-	
	Ol Rossell	C. Beanland				
APPROVED R	.F. Reid	R.F. Reid		The state of the s		

APPLICATION MATERIAL SPECIFICATION PREQUENCY ACCESS DETAILS: GROUND SUPPORT EQUIPMENT SPECIAL TOOLS FOR AIRCRAFT USE NIL NIL OROUND TESTING EQUIPMENT Hydraulic Test Machine Trailer A-C Ground Fower Unit INTERCHANGEABLE X REMOVAL INSTRUCTIONS MEN × MIDUTES EST. ACTUA The pack on which the valve is mounted must first be removed from the aircraft. To remove valve: Airframe - 1. Disconnect 2 hydraulic lines. 2. Remove 2 bolts. Remove and replace (valve only) Electrics - Disconnect 1 electrical connector Remove and replace 1 X 2	APPLICATION	Marine William	LUBRICAT	ION NIL	
CROUND SUPPORT EQUIPMENT SPECIAL TOOLS FOR AIRCRAFT USE NIL NIL GROUND TESTING EQUIPMENT Hydraulic Test Machine Trailer A-C Ground Fower Unit INTERCHANGEABLE X REMOVAL INSTRUCTIONS The pack on which the valve is mounted must first be removed from the sircraft. To remove valve: Airframe - 1. Disconnect 2 hydraulic lines. 2. Remove and replace (valve only) Electrics - Disconnect 1 electrical connector Remove and replace 1 X 2	THE DECITION	MATERIAL	SPECIFICATION	FREQUENCY	ACCESS
GROUND SUPPORT EQUIPMENT SPECIAL TOOLS FOR AIRCRAFT USE NIL NIL GROUND TESTING EQUIPMENT Hydraulic Test Machine Trailer A-C Ground Fower Unit NIL REMOVAL INSTRUCTIONS MEN × MINUTES EST. ACTUA The pack on which the valve is mounted must first be removed from the aircraft. To remove valve: Airframe - 1. Disconnect 2 hydraulic lines. 2. Remove 2 bolts. Remove and replace (valve only) Electrics - Disconnect 1 electrical connector Remove and replace 1 X 2	led Voorhited				THE STATE ASSISTED AS
NIL GROUND TESTING EQUIPMENT Hydraulic Test Machine Trailer A-C Ground Power Unit INTERCHANGEABLE X REMOVALINSTRUCTIONS The pack on which the valve is mounted must first be removed from the aircraft. To remove valve: Airframe - 1. Disconnect 2 hydraulic lines. 2. Remove 2 bolts. Remove and replace (valve only) Electrics - Disconnect 1 electrical connector Remove and replace 1 X 2	DETAILS:	Leave And		Section States Core.	ARVIACTURERS BART NO. MURACTURERS RAME TROCAR SEEC. E-12.0
NIL GROUND TESTING EQUIPMENT Hydraulic Test Machine Trailer A-C Ground Fower Unit NIL REMOVAL INSTRUCTIONS REPLACEABLE The pack on which the valve is mounted must first be removed from the aircraft. To remove valve: Airframe - 1. Disconnect 2 hydraulic lines. 2. Remove 2 bolts. Remove and replace (valve only) Electrics - Disconnect 1 electrical connector Remove and replace 1 X 2		180%	GROUND SUPPORT	EQUIPMENT	g II. g Uju zazzamusvi
GROUND TESTING EQUIPMENT Hydraulic Test Machine Trailer A-C Ground Power Unit NIL REMOVAL INSTRUCTIONS REPLACEABLE The pack on which the valve is mounted must first be removed from the aircraft. To remove valve: Airframe - 1. Disconnect 2 hydraulic lines. 2. Remove 2 bolts. Remove and replace (valve only) Electrics - Disconnect 1 electrical connector Remove and replace 1 X 2	SPECIAL TO	OLS FOR AIRCRAF	T USE	SPECIAL TOOLS	FOR BENCH USE
Hydraulic Test Machine Trailer A-C Ground Fower Unit NIL A-C Ground Fower Unit NIL		NIL	2 1 22 1 22	NI	L someone
A-C Ground Fower Unit INTERCHANGEABLE X REMOVAL INSTRUCTIONS EST. ACTUA	GROUND	TESTING EQUIPME	NT	GROUND HANDL	ING EQUIPMENT
The pack on which the valve is mounted must first be removed from the aircraft. To remove valve: Airframe - 1. Disconnect 2 hydraulic lines. 2. Remove 2 bolts. Remove and replace (valve only) Electrics - Disconnect 1 electrical connector Remove and replace 1 X 2	Hydrau A-C Gr	nlic Test Mack Cound Power Ur	ine Trailer it	NIL	
The pack on which the valve is mounted must first be removed from the aircraft. To remove valve: Airframe - 1. Disconnect 2 hydraulic lines. 2. Remove 2 bolts. Remove and replace (valve only) Electrics - Disconnect 1 electrical connector Remove and replace 1 X 2	ETURN K CAN		OSMOTHER SE OF	ROTTARESO	MOTTO YEAR
The pack on which the valve is mounted must first be removed from the aircraft. To remove valve: Airframe - 1. Disconnect 2 hydraulic lines. 2. Remove 2 bolts. Remove and replace (valve only) Electrics - Disconnect 1 electrical connector Remove and replace 1 X 2	INTERCHANGEABLE	X	REMOVAL IN	STRUCTIONS	MEN × MINUTES
removed from the aircraft. To remove valve: Airframe - 1. Disconnect 2 hydraulic lines. 2. Remove 2 bolts. Remove and replace (valve only) Electrics - Disconnect 1 electrical connector Remove and replace 1 X 2	REPLACEABLE				EST. ACTUA
	To rem	ove valve:		cales. And carross to:	Social Call
		2. Remov	Remove and re	eplace (valve only)	1 X 10
SVOLUTE STORY CONTRACTOR OF THE PROPERTY OF TH		2. Remov	Remove and re	eplace (valve only) connector	
Story of the control		2. Remov	Remove and re	eplace (valve only) connector	
		2. Remov	Remove and re	eplace (valve only) connector	

MAINTENANCE AVRO AIRCRAFT LTD.	DATA RECORD Engineering Div.	ELECTRICS	REF. NO. 11-E260
DISTRIBUTION: STANDARD +	A/C TYPE - Arrow 1	COMPONENT	
S. Brown K. Knowlton	EFF. A/C - 25201	Battery (SAFT	Voltabloc)
	.ttery Co. (c/o D.M. Fraser & Co.)	AVRO PART NO. 7-1152-11	
envelopesize 8" x 8" x 12" Location L.H. side nose-wh	WEIGHT 47 (est) LB.		-2 Sht. 12 -3 Sht. 2
FUNCTION To supply current services.	at 24 V.D.C. for certain	REF, M.D.R.	
		RELIABIL	ITY
		overhaul Lifel500 wastage o.t.r. Pendi	нгs. ng

		OPERATION TO BE PERFORMED				
PERIO	D		****		EST.	ACTUAL
LAST 2A			+#"		Time	10.00
Primary	tightne termina	ecurity of mounti ss. Ensure exit p ls and connection Check terminal	erforations clea: s for security a	r. Check	1 x 5	•
					Y	
					l.	
				1		
		ACCESSIBILIT	Y			
		ACCESSIBILIT	Y			
			Y			
			¥			
ISSUE	1			4		
ISSUE DATE	l Mar. 18/55	Unobstructed	1 7.1."			
		Unobstructed 2 April 27/56 D. Collingwood	3 May 17/57 W02 Wentworth	4 Oct. 23/57 K.P. Lowe		
DATE	Mar. 18/55	Unobstructed 2 April 27/56	3 May 17/57	4 Oct. 23/57 K.P. Lowe		

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GROUND SUPPORT EQUIPMENT SPECIAL TOOLS FOR AIRCRAFT USE Nil GROUND TESTENC EQUIPMENT Sensitive volt meter Maintenance Flatform 4G1596 TERCHANGEABLE Disconnect battery leads. Disconnect air connections. Remove two bolts from angle plate at top of battery. Remove mut from stud in bottom of rear face of battery. Remove bolt from angle bracket at bottom fwd. face of battery. Slide battery forward until stud is clear of structure, then lift clear. Reverse procedure to install replacement battery. - Remove and replace 1 x 20	CT_FT !	and the same of th	LUBRICATIO	N/A N/A	MAINTENANCE
GROUND SUPPORT EQUIPMENT SPECIAL TOOLS FOR AIRCRAFT USE Nil Nil Nil GROUND TESTING EQUIPMENT Sensitive volt meter TERCHANGEABLE Disconnect battery leads. Disconnect air connections. Remove two botts from angle plate at top of battery. Remove mut from stud in bottom of rear face of battery. Remove bottery. Slide battery forward until stud is clear of structure, then lift clear. Reverse procedure to install replacement battery. - Remove and replace 1 x 20	PPLICATION	MATERIAL	SPECIFICATION		
SPECIAL TOOLS FOR ARCEAFT USE SPECIAL TOOLS FOR ARCEAFT USE Nil OROUND TESTING EQUIPMENT Sensitive volt meter TERCHANGEABLE Disconnect battery leads. Disconnect air connections. Remove two bolts from angle plate at top of battery. Remove nut from stud in bottom of rear face of battery. Remove bolt from angle bracket at bottom fwd. face of battery. Slide battery forward until stud is clear of structure, then lift clear. Reverse procedure to install replacement battery. - Remove and replace 1 x 20	1	NE CONTRACTOR	1 1000		DIOTE 45
GROUND SUPPORT EQUIPMENT SPECIAL TOOLS FOR AIRCRAFT USE Nil GROUND TESTING EQUIPMENT GROUND HANDLING EQUIPMENT GROUND HANDLING EQUIPMENT Maintenance Flatform 4G1596 TERCHANGEABLE X REMOVALINSTRUCTIONS MEN X MUNUTES EST. ACTUAL Disconnect battery leads. Disconnect air connections. Remove two bolts from angle plate at top of battery. Remove but from stud in bottom of rear face of battery. Remove but from angle bracket at bottom fwd. face of battery. Slide battery forward until stud is clear of structure, then lift clear. Reverse procedure to install replacement battery. — Remove and replace 1 x 20	1,5011,51201	A PACT MARKET		x 208/8/13	mod front . I
SPECIAL TOOLS FOR AIRCRAFT USE SPECIAL TOOLS FOR AIRCRAFT USE Nil GROUND TESTING EQUIPMENT Sensitive volt meter TERCHANGEABLE X REMOVAL INSTRUCTIONS MEN × MINUTES EPILACEABLE Disconnect battery leads. Disconnect air connections. Remove two bolts from angle plate at top of battery. Remove nut from stud in bottom of rear face of battery. Remove bolt from angle bracket at bottom fwd. face of battery. Slide battery forward until stud is clear of structure, then lift clear. Reverse procedure to install replacement battery. - Remove and replace 1 x 20	DETAILS:	PRO PART NO.		0.15	
SPECIAL TOOLS FOR AIRCRAFT USE SPECIAL TOOLS FOR AIRCRAFT USE Nil GROUND TESTING EQUIPMENT Sensitive volt meter Maintenance Flatform 4G1596 TERCHANGEABLE X REMOVAL INSTRUCTIONS Disconnect battery leads. Disconnect air connections. Remove two bolts from angle plate at top of battery. Remove but from stud in bottom of rear face of battery. Remove bett from angle bracket at bottom fwd. face of battery. Slide battery forward until stud is clear of structure, then lift clear. Reverse procedure to install replacement battery. - Remove and replace 1 x 20					S 22.82 IMAR PRIRUTDASUKAN
Nil Sensitive volt meter REMOVAL INSTRUCTIONS Disconnect battery leads. Disconnect battery leads. Disconnect iair connections. Remove two bolts from angle plate at top of battery. Remove nut from stud in bottom of rear face of battery. Remove bolt strom angle bracket at bottom fwd. face of battery. Slide battery forward until stud is clear of structure, then lift clear. Reverse procedure to install replacement battery. - Remove and replace 1 x 20					
Nil GROUND TESTING EQUIPMENT Sensitive volt meter TERCHANGEABLE TERCHANGEABLE REMOVAL INSTRUCTIONS MEN × MINUTES EST. ACTUAL Disconnect battery leads. Disconnect two bolts from angle plate at top of battery. Remove two bolts from angle bracket at bottom fwd. face of battery. Slide battery forward until stud is clear of structure, then lift clear. Reverse procedure to install replacement battery. - Remove and replace 1 x 20		CANADA AND AND AND AND AND AND AND AND AN	GROUND SUPPORT	EQUIPMENT	"SE E "B E AS BER MOLEVER
GROUND TESTING EQUIPMENT Sensitive volt meter Maintenance Platform 4G1596 MEN × MINUTES EST. ACTUAL Disconnect battery leads. Disconnect air connections. Remove two bolts from angle plate at top of battery. Remove bolt from stud in bottom of rear face of battery. Remove bolt from angle bracket at bottom fwd. face of battery. Slide battery forward until stud is clear of structure, then lift clear. Reverse procedure to install replacement battery. - Remove and replace 1 x 20	SPECIAL	TOOLS FOR AIRCRAFT	USE	SPECIAL T	OOLS FOR BENCH USE
GROUND TESTING EQUIPMENT Sensitive volt meter Maintenance Platform 4G1596 MEN X MINUTES EST. ACTUAL Disconnect battery leads. Disconnect air connections. Remove two bolts from angle plate at top of battery. Remove but from stud in bottom of rear face of battery. Remove bolt from angle bracket at bottom fwd. face of battery. Slide battery forward until stud is clear of structure, then lift clear. Reverse procedure to install replacement battery. - Remove and replace 1 x 20					
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Sensitive volt meter Maintenance Platform 4G1596 TERCHANGEABLE REMOVAL INSTRUCTIONS MEN X MINUTES EST. ACTUAL Disconnect battery leads. Disconnect air connections. Remove two bolts from angle plate at top of battery. Remove bolt from stud in bottom of rear face of battery. Remove bolt from angle bracket at bottom fwd. face of battery. Slide battery forward until stud is clear of structure, then lift clear. Reverse procedure to install replacement battery. - Remove and replace 1 x 20					
Disconnect battery leads. Disconnect air connections. Remove two bolts from angle plate at top of battery. Remove bolt from angle bracket at bottom fwd. face of battery. Slide battery forward until stud is clear of structure, then lift clear. Reverse procedure to install replacement battery. - Remove and replace	GROU	ND TESTING EQUIPMEN	Т	GROUND H	ANDLING EQUIPMENT
Disconnect battery leads. Disconnect air connections. Remove two bolts from angle plate at top of battery. Remove bolt from angle bracket at bottom fwd. face of battery. Slide battery forward until stud is clear of structure, then lift clear. Reverse procedure to install replacement battery. - Remove and replace					
Disconnect battery leads. Disconnect air connections. Remove two bolts from angle plate at top of battery. Remove nut from stud in bottom of rear face of battery. Remove bolt from angle bracket at bottom fwd. face of battery. Slide battery forward until stud is clear of structure, then lift clear. Reverse procedure to install replacement battery. - Remove and replace 1 x 20		Sensitive volt	meter		
Disconnect battery leads. Disconnect air connections. Remove two bolts from angle plate at top of battery. Remove nut from stud in bottom of rear face of battery. Remove bolt from angle bracket at bottom fwd. face of battery. Slide battery forward until stud is clear of structure, then lift clear. Reverse procedure to install replacement battery. - Remove and replace 1 x 20			GAMBONGS 25 DT		
Disconnect battery leads. Disconnect air connections. Remove two bolts from angle plate at top of battery. Remove nut from stud in bottom of rear face of battery. Remove bolt from angle bracket at bottom fwd. face of battery. Slide battery forward until stud is clear of structure, then lift clear. Reverse procedure to install replacement battery. - Remove and replace 1 x 20	NTERCHANGEABL	ЕХ	REMOVAL INS	TRUCTIONS	MEN × MINUTES
Disconnect air connections. Remove two bolts from angle plate at top of battery. Remove nut from stud in bottom of rear face of battery. Remove bolt from angle bracket at bottom fwd. face of battery. Slide battery forward until stud is clear of structure, then lift clear. Reverse procedure to install replacement battery. - Remove and replace 1 x 20	EPLACEABLE				EST. ACTUAL
		105 %		controls from a blesser A visite tradental co	Service The Merch
	Disc Disc Remo Remo bat Slic the	connect air connect ove two bolts from studove bolt from and tery. de battery forward lift clear.	ections. om angle plate at d in bottom of re gle bracket at bo rd until stud is o install replace	ar face of batte ttom fwd. face o clear of structu ment battery.	ery. f
	Disc Disc Remo Remo bat Slic the	connect air connect ove two bolts from studove bolt from and tery. de battery forward lift clear.	ections. om angle plate at in bottom of regle bracket at bourd until stud is install replace Remove and r	ar face of batte ttom fwd. face o clear of structu ment battery.	ery. f
	Disc Disc Rema Rema bat Slid the	connect air connect ove two bolts from studove bolt from and tery. de battery forward lift clear.	ections. om angle plate at in bottom of regle bracket at bourd until stud is install replace Remove and r	ar face of batte ttom fwd. face o clear of structu ment battery.	ery. f

MAINIE	NANCE	DATA RECORD	SYSTEM ELE CTRICS	REF.	но. -E163	
AVRO AIRCRAFT	T LTD.	Engineering Div.	S CONTRACTOR	I Me		
DISTRIBUTION: STANDA S. Brown K. Knowlt		A/C TYPE - Arrow 1 EFF. A/C - 25201	Relay - Ground Fault L.H.			
MANUFACTURER'S PAR	т NO. GS-1301	0-1	AVRO PART NO. CS-R-123			
MANUFACTURER'S NAME	E Lucas-R	otax	OBSILETZ			
AVROCAN SPEC.	E360 E.	o. No.			**	
envelope size 8,0"	' x 7.25" x	3.5" WEIGHT 4.0 LB.	7-1100-3 sht 7-1156-225	2		
LOCATIONDuct Bay	at Sta: 532	≖ L.H.	7-1100-2 sht	26		
FUNCTION Transmits	e o signal t	o the left T.R.U. in the	REF. M.D.R.			
event of	a ground fa	o the left fam. o. In the ult occuring, and causes a alternator.	11-E164			
			RELIABI	LITY		
			overhaul life 150 wastage Q.T.R.	00	HRS.	
INSPECTION		OPERATION TO BE PERFORM	70	MEN X	MINUTES	
PERIOD		OFERTION TO BE FERFORMS		EST.	ACTUA	
Primary	Check r	elay for security and damage onnector for security	Cale 1 Tologopald motor 1 (Canacythii motor E stamping C	1 x 3		
Primary	Check r		Tale 1 Tananaraki mata 1 (banasaki mata E danmasaki mata E danmasaki mi petia matalia Talimunt 1 tyenal	1 x 3		
Primary	Check r		Total Total Control of the Control o	1 x 3		
Primary	Check r		Tale 1 Tananarali Dale 1 Tananarali Dale 1 Danasali Dale 2 Danasali Dale 2 Danasali Dale 2 Danasali Dale 2 Danasali Dale 2 Danasali	1 x 3		
Primary	Check r		Tale 1 Tanacard July and Call Annual J types of the Call Annual J types of	1 x 3		
Primary	Check r	onnector for security		1 x 3		
Primary	Check r Check c	onnector for security		1 x 3		

1 26 Sept 57

K.P. Lowe WO2 Wentworth

R.F. Reid

ISSUE DATE

CHECKED

APPROVED

APPLICATION	MATERIAL	SPECIFICATION	FREQUENCY		ACCESS	RA .
dsa), d Lou, l. Es	Melay - Grou	Laworek	- AMYT 0\A.	v 8610	THATE STANT	i udiaya
	The Road Con	*TOSES	SIA, NSE	30.000	IND ME ON	
DETAILS:	ON THAT ORY	4)	I-010			
			E.O. 100.			
		GROUND SUPPORT	EQUIPMENT		o F-AUGO	WA 1814
SPECIAL	TOOLS FOR AIRCRAFT	USE	SPECIAL TO	OLS FOR BENC	H USE	
	HAD TO TOTAL		34 - 1989			
	NIL		NIL			
		ent the Su				
		e esente				
GROU	ND TESTING EQUIPMENT		GROUND HA	NDLING EQUIP	MENT	
A-C Ground 1			Madada	01	a	
A=C Ground	ower unit		Mainte	nance Stan	a.	
TO DOMESTICAL STREET					и монто	1960
REPLACEABLE	E XX	REMOVAL INS	TRUCTIONS		MEN X M	ACTUA
REPLACEABLE					201.	ACTOR
	Disconnect 3 gr		grounding point			
		F	Remove and Replac	e	1 x 40	
					an a 5,000	
					20 0 1,3 0 0	

DAL

MAINTENANCE	DATA RECORD	SYSTEM	REF. NO. 25-12
AVRO AIRCRAFT LTD.	Engineering Div.	ELECTRICS	11-E273
S. Brown K. Knowlton	A/C TYPE - Arrow I EFF. A/C _ 25201	COMPONENT Constant Speed Driv Constant Speed Swit	
MANUFACTURER'S PART NO. 168D 52 MANUFACTURER'S NAME General E. AVROCAN SPEC. E230 E.		AVRO PART NO. 7-2995-5	in the old
	x 11.0" werent 62 LB.	REF. DWGS. 7-1100-3 8	sht 2
runction To drive the altern output speed of 8,000 I range from 2,250 R.P.M.	R.P.M. with input speed	REF. M.D.R.	
drive, opens or closes	the A-C line relay	OVERHAUL LIFE Pendir WASTAGE	
INSPECTION	OPERATION TO BE PERFORME		MEN × MINUTE

INSPECT	TON	OPERATION TO BE PERFORMED				
PERIO	D				EST,	ACTUAL
25 Hrs. Engine	Visual of oil piping.	check for securit leakage from cons	y, damage, corro	sion and signs and associated	1 x 5	
25 Hrs. Electric	Function 71/MAIN	n check (See Main T 11/10	tenance Instruct	ions Report	1 x 10	
					3	
		A C C E S S I B I L I	ITY	· · · · · · · · · · · · · · · · · · ·		
		agine removed, remeasing 4 coupling				
			Remove and	replace	1 x 10	
		2		<u></u>		
SSUE	1					
		18 Sept 57				
DATE	18 Sept. 57	18 Sept 57				
DATE COMPILED CHECKED		18 Sept 57 K.P. Lowe Sgt P.A. Bell				

		LUBRICATI	ON NIL	R CHANG	PAL	A PA
APPLICATION	MATERIAL	SPECIFICATION	FREQUENCY	AC	CCESS	eyek h
7 -0 -Y		207.45	- 000 000 - 000 0000			
	s cil from the ther lubrication	accessories drive	system as a work	ing medium a	and	TO A THIRTHAN TO A SHIP A STATE OF
		GROUND SUPPORT	EQUIPMENT			
SPECIAL	TOOLS FOR AIRCRAF			OLS FOR BENCH	USE	
Pane]	trical Power Sy L ne Starting Equ		Engine removal	equipment		
NTERCHANGEABLE X REMOVAL INSTRUCTIONS						MINUTES
	L marin man				EST.	ACTUAL
NTERCHANGEABLE REPLACEABLE				aninka i		

Remove and replace

1 x 180

	INTENANC	E DATA RE	CORD	SYSTEM TOTAL	REF.	
AVR	AIRCRAFT LTD.	Engin	eering Div.	ELECTRICS] 11-E	275
	ON: STANDARD +	A/C TYPE -	· · · · · · · · · · · · · · · · · · ·	COMPONENT		
	S. Brown	EFF. A/C -		External Power Receptacle		
	K. Knowlton	EFF, A/C =	AJAUL			
MANUFACTU	JRER'S PART NO.			AVRO PART NO.		
MANUFACTU	rer's name Power	rlite Devices Ltd.		CS-R-127		
AVROCAN SI	PEC. E-345	E.O. NO.		La Para Line		
ENVELOPE S	SIZE 3.5" x 4.5	5" x 3.0" weight	r 1.5 LB.	REF. DWGS. 7-0111-7-1100-	-88 -2 Sht.	26
LOCATION	Underside of o	luct bay - Stn. 495			-3 Sht.	
FUNCTION		connection of exteurrent power to the		REF. M.D.R.		
	5) 5 Cellie			RELIABIL	. IT Y	
				overhaul Life 150 wastage o.t.r. Pending	00	HRS.
INSPEC	TION	ODERA TYON	TO BE PERFORMED		MEN × M	MINUTES
PERIO	OD	UPERATION	. IO DE PERFURMED		EST.	ACTUAL
50 hrs.	Check	c contacts for burn t terminal cover for for cleanliness.			1 x 3	
	\$0					
	\$1					
	Š-1	A C C E S S I B I L 1				
Remove 1	right hand elec	ACCESSIBILI		camlocs)		
Remove 1	right hand elec	trical equipment ac		camlocs)	1 x 4½	
Remove 1	right hand elec	trical equipment ac	ccess panel (44	camlocs)	1 x 4½	
	right hand elec	trical equipment ac	ocess panel (44 ve and replace	9	1 x 4½	
ISSUE	1	trical equipment ac	ccess panel (44 ve and replace	**************************************	1 x 4½	
ISSUE DATE	1 Dec. 15/55	trical equipment acres Removed Property of the Removed	ccess panel (44 ve and replace 3 Jan. 2/57	% 4 Oct. 23/57	1 x 4½	
Remove 1 ISSUE DATE COMPILED CHECKED	1	trical equipment ac	ccess panel (44 ve and replace	% 4 Oct. 23/57	1 x 4½	

		LUBRICATIO	N Nil	B.D. B. A. b. B. P. K. S.	A 14
APPLICATION	MATERIAL	SPECIFICATION	FREQUENCY	ACCESS	ie- a
			2-070 O/V		
			34.190		
DETAILS:					
	Ch. Mary	GROUND SUPPORT	EQUIPMENT		y icean
SPECIAL T	OOLS FOR AIRCRAF	T USE	SPECIAL TO	OOLS FOR BENCH USE	
	Nil			Nil	
GROUND	TESTING EQUIPME	NT	GROUND HA	ANDLING EQUIPMENT	
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Nil	7.4	Maintenanc	e Stand	
INTERCHANGEABLE	X	REMOVAL INST	RUCTIONS	MEN X	MINUTE
REPLACEABLE				EST.	ACTUA
	2. Disconnect	rminal cover (4 nut t 6 wires from rece mounting bolts Remove and r	eptacle.	1 x 1	0

