QCX Auro CF105 71 Maint 11-4

# ARROW UNCOUNTY

MAINTENANCE INSTRUCTIONS

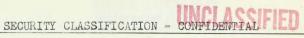
ELECTRICS - LANDING GEAR

71/MAINT 11/4

NRC - CISTI J. H. PARKIN BRANCH

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ARROW 1

MAINTENANCE INSTRUCTIONS

ELECTRICS - LANDING GEAR

71/MAINT 11/4

7 Nov. 57

(This instruction supercedes Maint. 105-92-4)

Prepared:

For Maintenance and Reliability

Approved:

esign Department

Approved:

Design Department

Authorized:

ENGINEERING DIVISION, AVRO AIRCRAFT LIMITED, MALTON, ONTARIO



## UNCLASSIFIED

71/MAINT 11/4

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M.D.R. 11-E15/28 Switch - Master Dim M.D.R. 11-E15/35 Resistor - Landing Gear Position Warning M.D.R. 11-E21/22 Drag Chute - Press-To-Test Light M.D.R. 11-E161 M.D.R. 11-E168 M.D.R. 11-E170 Valve - Brake Control Valve - Speed Brake Valve - Landing Gear Selection Valve - Nose Wheel Steering M.D.R. 11-E271 M.D.R. 11-E279 Solenoid - Drag Chute Door Light Switch - Nose Landing Gear Down M.D.R. 11-E1012/1 M.D.R. 11-E1006/1 Switch - Nose Door Up M.D.R. 11-E1021/2 Switch - Nose Wheel Scissors M.D.R. 11-E1061/2 Switch - Nose wheel Scissors
M.D.R. 11-E1061/2 Switch - Telescopic Stay
M.D.R. 11-E1151/1 Switch - Door Up (left)
M.D.R. 11-E1530/1 Switch - Drag Chute Lever Limit
M.D.R. 11-E1153/2 Switch - Scissor (Left)
M.D.R. 11-E1500/7 Switch - Landing Gear Down
M.D.R. 11-E1500/7 Switch - Speed Brake



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#### 1. DESCRIPTION

#### 1.1 General

- 1.1.1 The landing gear electrical system includes the landing gear position indication circuits and the control circuits provided for the hydraulically-operated landing gear actuation, nose wheel steering and retraction wheel braking systems. Included also, is a description of the operation of the arrester gear system safety circuit.

  (See Avro dwg. No. 7-1100-3 sht 5 and 7-1100-3, sht 11 Landing Gear Position Indication).
- 1.1.2 The position of each main and the nose landing gear is indicated individually by three indicators which are controlled by micro-switches operated by the landing gear. The indicators incorporate two circuits, one for up indication and the other for down indication. All circuits derive a common power supply from the emergency D-C bus.
- 1.1.3 Three micro-switches, actuated by the left and right main and the nose landing gear door locks, close when the landing gear is up and the doors are locked closed. These switches complete the up circuit of the relevant indicators. The word UP is visible in the indicators when the landing gear is up and the doors are locked closed.
- 1.1.4 The nose gear down indication circuit is completed by a micro-switch actuated by the down lock on the drag strut.
- 1.1.5 Each main gear down indication circuit is completed by two micro-switches in series. One micro-switch is actuated by the leg shortening mechanism and the other is actuated by a down-lock in the side stay.
- 1.1.6 A symbolic representation of a wheel is visible in each indicator when the nose and main gears are down and locked.
- 1.1.7 When the landing gear is unlocked, there is no power supply to the indicator. In this condition, a spring-controlled, between-locks indication, of white diagonal bars on a black background, is given.

#### 1.2 Landing Gear Actuation Circuits

1.2.1 The operation of the actuation circuits is initiated by the landing gear selector lever which is marked UP, DN and EMERGENCY EXTENSION. The actuation circuits control the operation of the landing gear hydraulic selector valve and the anti-spin valves.



- 1.2.2 Incorporated in the selector lever assembly is an electro mechanical lock which prevents an UP selection being made when the aircraft weight is on the main wheels. When the aircraft weight is off the main wheels, a lock release solenoid is energized. The supply to the solenoid is completed via two micro-switches connected in series and fitted one on each torque link of the main gear.
- 1.2.3 Selecting the UP position on the landing gear selector lever completes a supply circuit derived from the main D-C bus via a closed contact of the No. 1 door-up relay, to the up solenoid of the hydraulic selector valve and to the left and right anti-spin solenoids. When each leg of the landing gear is retracted and all three door-up micro-switches are actuated, a D-C supply from the main D-C bus energizes the No. 1 door up relay, interrupting the supply to the up solenoid of the hydraulic selector valve and to the left and right anti-spin solenoids.
- 1.2.4 When the landing gear selector lever is selected to the DN position, a supply circuit derived from the main D-C bus is completed via the selector switch contacts in the landing gear emergency down limit switch, to the down solenoid of the hydraulic selector valve. In the down position, the supply is maintained on the down solenoid.
- 1.2.5 When the EMERGENCY EXTENSION position is selected, the landing gear emergency down limit switch opens, the power supply circuit to the hydraulic selector valve is interrupted and a mechanical linkage initiates the operation of the high pressure nitrogen system used for the emergency extension of the landing gear.

  To prevent inadvertent selection of the EMERGENCY EXTENSION position, a mechanically operated stop is fitted which must be released be depressing a button fitted adjacent to the selector lever.

#### 1.3 Landing Gear Warning Circuits

- 1.3.1 Incorporated in the knob of the landing gear selector lever is a warning light which can be operated by either one of two warning circuits. One warning circuit illuminates the selector lever warning light until the landing gear is locked in the position selected on the landing gear selector lever. The other warning circuit illuminates the selector lever warning light if either power lever is set within a range of from one third open to idle, with the landing gear retracted.
- 1.3.2 Selecting the landing gear selector lever to the UP position completes a supply from the main D-C bus via the landing gear selector switch, landing gear up warning relay and No. 1 door-up relay, to illuminate the warning light in the landing gear selector lever.



#### 1.3.2 (continued)

When the landing gear is retracted and the door-up micro-switch in each wheel well is actuated, the No. 1 door-up relay is encrgized by a supply from the main D-C bus. The supply to the warning light in the landing gear selector is then interrupted.

- 1.3.3 Moving the landing gear selector lever to the DN position, completes a supply from the main D-C bus through the landing gear up warning control relay via the nose landing gear down, right landing gear down, right telescopic stay, left landing gear down and left telescopic stay micro-switches, which arc in parallel, to illuminate the warning light in the landing gear selector lever. When the landing gear is in the locked down position and all the micro-switches are actuated, the supply to the warning light in the landing gear selector lever is broken.
- 1.3.4 When the landing gear is selected UP, the power lever warning oircuit will be operative. In this condition, if either power lever is set within a range of from one third open to idle, the relevant one of two mioro-switches will be closed. Either micro-switch, when closed, completes a supply circuit via the relay closed contacts of the landing gear up warning control relay and a flasher unit to the landing gear warning light. The circuit derives a power supply from the main D-C bus.

#### 1.4 Retraction Wheel Braking Control Circuit

1.4.1 The retraction wheel braking system brakes the main wheels during landing gear retraction. A solenoid, fitted on each main wheel brake control valve, is energized by a circuit which is paralleled with the supply circuit to the up solenoid of the landing gear hydraulic control valve.

#### 1.5 Nose Wheel Steering Control Circuit

1.5.1 Hydraulic power for the nose wheel steering system is controlled by a solenoid-operated valve. The power supply circuit for the solenoid is completed when the nose wheel steering button switch on the control column is pressed and the nose scissors micro-switch is closed. The micro-switch is fitted on the nose wheel torque link and interrupts the supply circuit when the aircraft weight is off the nose wheels.

#### 1.6 Arrester Gear Safety Circuit

1.6.1 A safety look circuit, consisting of a micro-switch located in the drag chute selector lever and a solenoid located on the forward face of the bulkhead (Sta. 803), provides a safety feature to prevent inadvertent opening of the drag chute doors.



- 1.6.2 With the drag chute selector lever in the stowed gage (fully up) position, a supply is completed from the main D-C bus via the selector lever micro-switch to the locking mechanism solenoid.
- 1.6.3 With the solenoid energized, the plunger actuates a lever arm to lock the cam follower in the extended position and prevent the drag chute doors from opening.
- 1.6.4 When the solenoid is energized, a circuit is completed to the PARABRAKE LOCK light located on panel E21. Pressing the light, the lamp should illuminate, indicating that the solenoid is energized and locked.
- 1.6.5 With the selector lever out of the stowed gate position the solenoid is de-energized and the PARABRAKE LOCK light will not illuminate when pressed.
- 1.6.6 In the event of an electrical failure, the solenoid is deenergized and the electrical safety lock is then in the release position.

#### 1.7 Speed Brakes

- 1.7.1 The control for the speed brakes, which are hydraulically actuated, is provided by a double acting electrically operated control valve. A slide operated single pole double throw switch, located in the right hand throttle handle in the pilot's cockpit, is used to control this valve.
- 1.7.2 The mid position of the speed brake switch is not marked, the positions to either side, are identified IN and OUT.
- 1.7.3 When the speed brake switch is selected to the IN or OUT position, the corresponding coil of the valve is energized from the Emergency D-C bus, resulting in movement of the speed brake to the extreme position in the selected direction.
- 1.7.4 Any intermediate position between fully extended or fully retracted should be attained by selecting the switch to the centre position when the speed brakes reach the desired position.

#### 2. GROUND HANDLING EQUIPMENT

- 2.1 A-C Ground Power Unit
- 2.2 Hydraulic Test Machine Trailer
- 2.3 Aircraft Jacks (3)



#### 3. PREPARATION FOR TESTING

- 3.1 To carry out an actuation and indication check of the landing gear, the aircraft is to be raised and supported so that the landing gear may be retracted.
- 3.2 The A-C ground power unit is to be attached to the aircraft.
- 3.3 The hydraulic test machine trailer is to be attached to the aircraft.

#### 4. LANDING GEAR ACTUATION AND INDICATION FUNCTION TEST

#### 4.1 Preparation for Test

- 4.1.1 Ensure that the circuit breakers U/C ACT. and U/C IND., located on panel El, are closed.
- 4.1.2 Raise and support the aircraft so that the landing gear may be retracted.
- 4.1.3 Check that the landing gear is clear of obstructions and that the ground locks are removed.
- 4.1.4 Select the MASTER ELECTRICS switch, located in the pilot's cockpit, to the ON position.
- 4.1.5 To ensure that a landing gear UP selection cannot be made with the aircraft weight on the landing gear, jack up either the left or right main landing gear until the seissor microswitch is actuated. The landing gear selector up release solenoid should be de-energized and it should not be possible to move the landing gear selector to the UP position.
- 4.1.6 Remove the jack.
- 4.1.7 Check that the landing gear selector lever is in the DN position and that the landing gear indicators show a down indication.
- 4.1.8 Check that the landing gear selector lever warning light is not illuminated.
- 4.1.9 With the hydraulic test machine trailer connected to the aircraft, have hydraulic power supplied to the aircraft utility hydraulic system and carry out a slow landing gear retraction.

#### 4.2 Test Procedures

4.2.1 Select the left and right engine power levers to the full MILITARY position.



- 4.2.2 Move the landing gear selector lever to the UP position.

  The following sequence of events should occur:
  - 4.2.2.1 The landing gear should start to retract.
  - 4.2.2.2 The landing gear indicators should move from a down indication (wheel showing) to a neutral indication (diagonal bars should be showing on the landing gear position indicator).
  - 4.2.2.3 The landing gear selector lever warning light should illuminate steadily.
  - 4.2.2.4 The landing gear should fully retract and lock in the up position.
  - 4.2.2.5 The landing gear doors should close and lock.
  - 4.2.2.6 The landing gear indicators should move from the neutral (diagonal bars) indication to the UP position.
  - 4.2.2.7 The landing gear selector lever warning light should go out.
- 4.2.3 Move either the left or right engine power levers to between the IDLE and one third positions. The landing gear selector lever warning light should commence flashing on and off.
- 4.2.4 Move the engine power lever to below IDLE or to full MILITARY position. The flashing landing gear selector lever warning light should go out.
- 4.2.5 Move the landing gear selector lever to the DN position. The landing gear doors should open and the landing gear should commence to extend.
- 4.2.6 The landing gear indicators should move from an UP indication to a neutral (diagonal bars) indication.
- 4.2.7 The landing gear selector lever warning light should illuminate steadily.
- 4.2.8 When the landing gear reaches the fully extended locked down position, the landing gear indicators should move from a neutral (diagonal bars) indication to a down indication (wheel showing).
- 4.2.9 The landing gear selector lever warning light should go out.
- 4.2.10 Move the left and right engine power levers to the OFF position.
- 4.2.11 Select the MASTER ELECTRICS switch to the OFF position.



#### 5. NOSE WHEEL STEERING

- 5.1 Ensure that the NOSE WHEEL STEERING circuit breaker, located on panel El, is closed.
- 5.2 Select the MASTER ELECTRICS switch to the ON position.
- 5.3 With the aircraft jacked up, ensure that the nose wheel steering solenoid is inoperative.
- 5.4 For a function test of the nose wheel steering, refer to Maintenance Instructions Report 71/MAINT 33/1 Nose Wheel Steering Mechanical.
- 5.5 Select the MASTER ELECTRICS switch to the OFF position.

#### 6.RETRACTION WHEEL BRAKING

The retraction wheel braking function test should be carried out during the landing gear actuation and indication checks.

- 6.1 Ensure that the circuit breaker U/C UP and U/C DOWN, located on panel El, is in a closed position.
- 6.2 Select the MASTER ELECTRICS switch to the ON position. .
- 6.3 Move the landing gear selector lever to the UP position.
- 6.4 The landing gear up solenoid of the landing gear selector valve, located to the right of the fuel-oil heat exchanger, and the left and right brake control valve located in the armament bay, should be energized and remain energized until the landing gear doors are up and locked.
- 6.5 Move the landing gear selector lever to the DN position. The down solenoid of the landing gear selector valve only should be energized.

#### 7. ARRESTER GEAR SAFETY CIRCUIT

- 7.1 Ensure that the current limiter TRIM IND., located on panel E20, is serviceable.
- 7.2 Sclect the MASTER ELECTRICS switch to the ON position.
- 7.3 With the drag chute selector lever in the stowed (gate) position the solenoid should be energized, actuating the locking lever to the locked position.
- 7.4 Press the PARABRAKE LOCK light, located on panel E21.
  The light should illuminate, indicating that the solenoid is energized and locked.





- 7.5 Move the drag chute selector lever to the right, out of the stowed gage (do not move to the stream position). The movement of the selector lever should open the micro-switch and the solenoid should be de-energized.
- 7.6 Press the PARABRAKE LOCK light. The light should not illuminate, indicating that the solenoid is de-energized.
- 7.7 Move the drag chute selector lever to the stowed gate position.
- 7.8 Press the PARABRAKE LOCK light, the light should illuminate, indicating that the solenoid is energized.
- 7.9 Select the MASTER ELECTRICS switch to the OFF position.

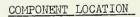
#### 8. ANTI-SKID

To be issued later.

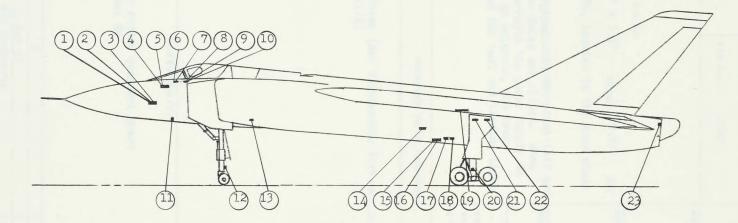
#### 9. SPEED BRAKES

- 9.1 Ensure that the circuit breaker Speed Brake, located on panel El, is in the closed position.
- 9.2 Select the Master Electrics switch to the ON position.
- 9.3 For a complete function test of the speed brakes, refer to Maintenance Instructions Report 71, MAINT 19/4 Utility Hydraulics-Speed Brakes
- 9.4 Select the Master Electrics switch to the OFF position.





- 1. Relay Door Up No. 1
- 2. Relay Door Up No. 2
- 3. Relay Control Warning
- 4. Indicator Landing Gear Warning
- 5. Switch Master Dim
- 6. Resistor Landing Gear Position Warning
- 7. Switch = Parabrake Lever
- 8. Switch Speed Brakes
- 9. Actuator Lever Landing Gear
- 10. Flasher Landing Gear Throttle Warning
- 11. Switch Nose Door Up
- 12. Switch Nose Wheel Scissor
- 13. Valve Nose Wheel Steering



- 14. Valve Brake Control
- 15. Switch Ground Test Override
- 16. Parabrake Press-To-Test Light
- 17. Valve Landing Gear Selection
- 18. Valve Speed Brake
- 19. Switch Door Up
- 20. Switch Landing
- 21. Switch Telescopic Stay
- 22. Switch Main Landing Scissor
- 23. Solenoid Parabrake Door Latch

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MA	INTENANCE	DATA RECORD	SYSTEM	REF. NO.
	AIRCRAFT LTD.	Engineering Div.	ELECTRICS	11-E6/7
ISTRIBUTION	N: STANDARD +	A/C TYPE — Arrow 1	COMPONENT	
S	3. Brown		Relay - Door	up #1
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MANUFACTU	JRER'S PART NO.		AVRO PART NO.	
			MSOFOOL 1	
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AVROCAN SP	EC.	E.O. NO.		
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APPROVED	R.F. Reid			

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REPLACEABLE  1 Dis 2 Rem	connect 4 electore 2 mounting	trical connections bolts.	Remove and Rep	place 1 x	ACTUA

CTUAL

	ENANCE D	ATA RECORD  Engineering Div.	SYSTEM ELECTRICS	REF. NO. 11-E11/7
S. Br K. Kn	ANDARD + rown nowlton	A/C TYPE - Arrow 1 EFF. A/C - 25201	COMPONENT Indicator - Landing Gea	
MANUFACTURER'S MANUFACTURER'S AVROCAN SPEC.	- i	n Aircraft Eng. Co.	AVRO PART NO. 1CS-1-109	
envelope size 2	2" dia x .625"	WEIGHT LE.	7-1100-2 sh	
		ing when the landing gear down-lock positions.	REF. M.D.R.	
	•		RELIABIL	ITY
			OVERHAUL LIFE 150 WASTAGE Q.T.R.	
INSPECTION		OPERATION TO BE PERFORM	ED	MEN × MINUTES
25 Hrs	Function Check 71/Maint 11/4	k. (Ref. Maintenance Instr )	ructions Report	1 x 5
			ructions Report	
			ructions Report	
			ructions Report	
	71/Maint 11/4			
25 Hrs	71/Maint 11/4 Unobstructed			
25 Hrs  ISSUE DATE  2 0	71/Maint 11/4 Unobstructed			
25 Hrs  ISSUE DATE 2 COMPILED WO2	71/Maint 11/4  Unobstructed  1 Oct 57 2 Wentworth			
ISSUE DATE 2 COMPILED WO2 CHECKED K,I	71/Maint 11/4 Unobstructed			

A DDI TO A TION		LUBRICA	TION NIL		
APPLICATION	MATERIAL	SPECIFICATION	FREQUENCY	ACCESS	
part to take a	THE SOURCE STATE OF THE SO	100	COLUMN TO STATE OF THE STATE OF	mor Blooks A	TUBIRTEIS
DETAILS:		7.6		Control Property	
11000	The same of the sa	GROUND SUPPOR	T EQUIPMENT	k 1/5 48 just	
SPECIAL '	rools for AIRCRAF	T USE	SPECIAL TOOLS	FOR BENCH USE	
NIL		1200 300	NIL		
GROUN	D TESTING EQUIPME	NT	GROUND HANDLIN	NG EQUIPMENT	
A-C Ground	Power Unit	70 10 10	Cockpit Access St	and	
INTERCHANGEABLE	xx	PEHOVAL	NSTRUCTIONS	MEN ×	MINUTES
REPLACEABLE		KEMOTAL	N31 KOC110K3	EST.	ACTUAL
2 Remove th	knurled nut. ne landing gear lamp.	selector knob.			
3 Remove 1			Remove and Replace	1 x 5	
				1 x 5	

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f.

MAINTEN AVRO AIRCRAFT		ATA RECORD  Engineering Div.	SYSTEM ELECTRICS	11-H	11/64
DISTRIBUTION: STANDAR S. Brown K. Knowlto		A/C TYPE - Arrow 1 EFF. A/C - 25201	COMPONENT  Landing Gea		E11/10 on
MANUFACTURER'S PART	NO. 303-14L		AVRO PART NO. AN5839-1		
MANUFACTURER'S NAME	Keystone	Watch			
AVROCAN SPEC.	E.O.	NO.			
ENVELOPE SIZE		WEIGHT LB.	7-1100-2 st	nt 3 nt 5	
rocationMounted on pit	n panel El4,	located in the front cock-			
locked dow	m, locked up	on when the landing gear i or between these position for down indication bars	S REF. M.D.R.		
represent	between up a	nd down and up is in-	RELIABI	LITY	
dicated by	the work UP	•	OVERHAUL LIFE WASTAGE	1500	HRS.
	Smert Institu	Supple .	Q.T.R.		
INSPECTION		OPERATION TO BE PERFORME	D.		MINUTES
PERIOD				EST.	ACTU
Primary		landing gear indicators f ndication	or security and	1 x 2	
25 Hrs	Function 71/Maint	Check (See Maintenance Ins 71/4)	tructions Report	1 x 2	
\.					
50 m h = 3					
		ACCESSIBILITY		7	
	Remove Pa	anel Ell			
ISSUE 1					
DATE 7 Oct 5'					
COMPILED WO2 Wen					
CHECKED K.P. LO					
APPROVED R.F. Re:	id	7			

PETALLS:  CROUND SUPPORT EQUIPMENT  SPECIAL TOOLS FOR AIRCRAFT USE  SPECIAL TOOLS FOR AIRCRAFT USE  SPECIAL TOOLS FOR AIRCRAFT USE  NIL  A-C Ground Power Unit  Cockpit Access Stand  NTERCHANGEABLE XX REMOVAL INSTRUCTIONS  MEN X MRUTES EST. ACTUAL  Disconnect 3 electrical connections Remove and Replace  1 x 10	GROUND SUPPORT EQUIPMENT  SPECIAL TOOLS FOR ARGRAFT USE  GROUND TESTING EQUIPMENT  GROUND TESTING EQUIPMENT  GROUND HANDLING EQUIPMENT  GROUND Power Unit  Cockpit Access Stand  COLANGEABLE XX REMOVAL INSTRUCTIONS  MEN X MINUTES  REMOVE 2 mounting bolts.  Remove and Replace  1 x 10			LUBRICA	TION NIL	SONAHETHIAN
GROUND SUPPORT EQUIPMENT  SPECIAL TOOLS FOR AIRCRAFT USE  SPECIAL TOOLS FOR BENCH USE  NIL  NIL  GROUND TESTING EQUIPMENT  GROUND HANDLING EQUIPMENT  Cockpit Access Stand  NTERCHANGEABLE XX REMOVAL INSTRUCTIONS  MEN X MINUTES  EPLACEABLE  Disconnect 3 electrical connections  Remove and Replace  1 x 10	GROUND SUPPORT EQUIPMENT  SPECIAL TOOLS FOR ARCRAFT USE  SPECIAL TOOLS FOR ARCRAFT USE  NIL  GROUND TESTING EQUIPMENT  GROUND HANDLING EQUIPMENT  GROUND POWER Unit  Cockpit Access Stand  MEN × MINUTES  ACEABLE  Disconnect 3 electrical connections Remove 2 mounting bolts.  Remove and Replace  1 x 10	PPLICATION	MATERIAL	SPECIFICATION		
GROUND SUPPORT EQUIPMENT  SPECIAL TOOLS FOR AIRCRAFT USE  NIL  NIL  GROUND TESTING EQUIPMENT  GROUND HANDLING EQUIPMENT  Cockpit Access Stand  NTERCHANGEABLE XX REMOVAL INSTRUCTIONS  SET. ACTUAL  Disconnect 3 electrical connections Remove 2 mounting bolts.  Remove and Replace  1 x 10	GROUND SUPPORT EQUIPMENT  SPECIAL TOOLS FOR AIRCRAFT USE  SPECIAL TOOLS FOR BENCH USE  NIL  GROUND TESTING EQUIPMENT  GROUND FOWER Unit  COCKPIT Access Stand  CHANGEABLE XX REMOVAL INSTRUCTIONS  MEN X MINUTES  EST. ACTUAL  Disconnect 3 electrical connections Remove 2 mounting bolts.  Remove and Replace  1 x 10		The second second	1 40 1	- 348.5 2 4	S DEATER AND DESTREE
GROUND SUPPORT EQUIPMENT  SPECIAL TOOLS FOR AIRCRAFT USE  NIL  NIL  A-C Ground Testing Equipment  GROUND HANDLING EQUIPMENT  Cockpit Access Stand  STERCHANGRABLE XX REMOVAL INSTRUCTIONS  MEN X MINUTES  EPILACEABLE  1 Disconnect 3 electrical connections 2 Remove 2 mounting bolts.  Remove and Replace  1 x 10	GROUND SUPPORT EQUIPMENT  SPECIAL TOOLS FOR AIRCRAFT USE  NIL  GROUND TESTING EQUIPMENT  Ground Power Unit  Cockpit Access Stand  CHANGEABLE XX REMOVALINSTRUCTIONS  MEN X MINUTES EST. ACTUAL  Disconnect 3 electrical connections Remove 2 mounting bolts.  Remove and Replace 1 x 10			PRESE	278.470	
SPECIAL TOOLS FOR AIRCRAFT USE  SPECIAL TOOLS FOR BENCH USE  NIL  NIL  GROUND TESTING EQUIPMENT  GROUND HANDLING EQUIPMENT  Cockpit Access Stand  STERCHANGEABLE XX REMOVAL INSTRUCTIONS  EST. ACTUAL  Disconnect 3 electrical connections 2 Remove 2 mounting bolts.  Remove and Replace  1 x 10	SPECIAL TOOLS FOR AIRCRAFT USE  NIL  GROUND TESTING EQUIPMENT  Ground Power Unit  Cockpit Access Stand  CHANGEABLE XX  REMOVAL INSTRUCTIONS  MEN X MINUTES EST. ACTUAL  Disconnect 3 electrical connections Remove 2 mounting bolts.  Remove and Replace  1 x 10	ETAILS:	Continue.		district one	M-015, or once grammanous
SPECIAL TOOLS FOR AIRCRAFT USE  SPECIAL TOOLS FOR BENCH USE  NIL  NIL  GROUND TESTING EQUIPMENT  GROUND HANDLING EQUIPMENT  Cockpit Access Stand  STERCHANGEABLE XX REMOVAL INSTRUCTIONS  EST. ACTUAL  Disconnect 3 electrical connections 2 Remove 2 mounting bolts.  Remove and Replace  1 x 10	SPECIAL TOOLS FOR AIRCRAFT USE  NIL  GROUND TESTING EQUIPMENT  Ground Power Unit  Cockpit Access Stand  CHANGEABLE XX  REMOVAL INSTRUCTIONS  MEN X MINUTES EST. ACTUAL  Disconnect 3 electrical connections Remove 2 mounting bolts.  Remove and Replace  1 x 10				rine resid	AWOOLUP WAS.
A-C Ground Power Unit  Cockpit Access Stand  NTERCHANGEABLE XX REMOVAL INSTRUCTIONS  MEN X MENUTES EPLACEABLE  1 Disconnect 3 electrical connections 2 Remove 2 mounting bolts.  Remove and Replace  1 x 10	Ground Power Unit  Cockpit Access Stand  CHANGEABLE XX REMOVALINSTRUCTIONS  MEN X MINUTES EST. ACTUAL  Disconnect 3 electrical connections Remove 2 mounting bolts.  Remove and Replace  1 x 10			GROUND SUPPOR	T EQUIPMENT	3.10.10.000
GROUND TESTING EQUIPMENT  A-C Ground Power Unit  Cockpit Access Stand  MEN × MINUTES EPLACEABLE  Disconnect 3 electrical connections 2 Remove 2 mounting bolts.  Remove and Replace  1 x 10	Ground Power Unit  Cockpit Access Stand  CHANGEABLE XX REMOVAL INSTRUCTIONS  MEN X MINUTES EST. ACTUAL  Disconnect 3 electrical connections Remove 2 mounting bolts.  Remove and Replace 1 x 10	SPECIAL T	COOLS FOR AIRCRAFT	r use	SPECIAL TO	OLS FOR BENCH USE
A-C Ground Power Unit  Cockpit Access Stand  NTERCHANGEABLE XX REMOVAL INSTRUCTIONS  MEN X MINUTES EST. ACTUAL  1 Disconnect 3 electrical connections 2 Remove 2 mounting bolts.  Remove and Replace  1 x 10	Ground Power Unit  Cockpit Access Stand  REMOVAL INSTRUCTIONS  MEN X MINUTES EST. ACTUAL  Disconnect 3 electrical connections Remove 2 mounting bolts.  Remove and Replace  1 x 10	NIL	The second second		NIL	when on this error of entrance and the control of t
NTERCHANGEABLE XX REMOVAL INSTRUCTIONS    MEN X MINUTES	REMOVAL INSTRUCTIONS    MEN × MINUTES	GROUNI	TESTING EQUIPMEN	T	GROUND HA	NDLING EQUIPMENT
REMOVAL INSTRUCTIONS    MEN × MINUTES	REMOVAL INSTRUCTIONS    MEN × MINUTES	A-C Ground Po	wer Unit	7.0 2.V	Cockpit Acce	ss Stand
REMOVALINSTRUCTIONS  EST. ACTUAL  Disconnect 3 electrical connections Remove and Replace  1 x 10	ACEABLE REMOVALINSTRUCTIONS  EST. ACTUAL  Disconnect 3 electrical connections Remove 2 mounting bolts.  Remove and Replace 1 x 10			23870A981 20		A 127 A 2 1 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
Disconnect 3 electrical connections Remove 2 mounting bolts.  Remove and Replace 1 x 10	Disconnect 3 electrical connections Remove 2 mounting bolts.  Remove and Replace   1 x 10	NTERCHANGEABLE	xx	REMOVAL I	STRUCTIONS	MEN × MINUTES
Remove 2 mounting bolts.  Remove and Replace 1 x 10	Remove 2 mounting bolts.  Remove and Replace 1 x 10	REPLACEABLE				EST ACTUAL
Depart Date 231	States Panel 333					EST. ACTUAL
		l Disconnect 2 Remove 2 m	3 electrical counting bolts.	connections	Remove and Replac	25 (ks) County
		l Disconnect 2 Remove 2 m	3 electrical counting bolts.			25 (ks) County
		l Disconnect 2 Remove 2 m	counting bolts.			e 1 x 10
	Greater Chira	l Disconnect 2 Remove 2 m	counting bolts.			e 1 x 10
		l Disconnect 2 Remove 2 m	counting bolts.			e 1 x 10

MA	INTENANCE	DATA RECORD	SYSTEM ELECTRICS	REF.	NO. E12/3
AVRO	AIRCRAFT LTD.	Engineering Div.	EIEOIIIO	TTO	112/)
	N: STANDARD +	A/C TYPE - Arrow 1	COMPONENT	T	
	S. Brown	EFF. A/C - 25201	Actuation Landing Ge		
F	K. Knowlton				
MANUFACTU	RER'S PART NO.		AVRO PART NO.	-	nersia.
. W. G. C. W.			7-1152-8		
MANUFACTU	RER'S NAME		1911)200	1	
AVROCAN SP	PEC. E279 E.C	D. NO.	F1 1-6-6-1		
ENVELOPE S	SIZE 5.10" x 3.44" x 2	2.25" WEIGHT	REF. DWGS.		
	Front cockpit panel	E1 2	7-1100-2	sht. /	
LUCATION	TONG COCKPIG PARIET		7-1100-3		
				1	
FUNCTION 7	To select landing ge	ear position.	REF. M.D.R.		
			RELIAE	BILITY	
				1500	
			OVERHAUL LIFE -	1,00	HRS.
			Q.T.R.		
INSPECT	TION	OPERATION TO BE PERFO	DRMED	MEN X I	MINUTES
PERIO	OD	OFERATION TO BE PERFO	JAMED .	EST.	ACTUA
	E a l			a sectional	
		ACCESSIBILITY			
		No occombient			
	Unobstructe	d			
ISSUE	1 2 Oct 57				
DATE	2 Oct 57				
COMPILED	W02 Wentworth K.P. Lowe				
CHECKED					
APPROVED	R.F. Reid				

		LUBRICATI	NIL NIL			
APPLICATION	MATERIAL	SPECIFICATION	FREQUENCY		CCESS	
	I mossagement	10882	20.491			
DETAILS:	9-5211-5		291.02	2000 PR	e properto.	ATOMAN PROMAN ANCHYA
		GROUND SUPPORT	EQUIPMENT		717.19	o field
SPECIAL	TOOLS FOR AIRCRAF	T USE	SPECIAL TO	OOLS FOR BENCI	H USE	
NIL			NIL	pallone I pur		
GROU	UND TESTING EQUIPMEN	NT T	GROUND HA	ANDLING EQUIPM	ENT	
A-C Ground	d Power Unit		Cockpit Acces	s Stand		
NTERCHANGEABI	F	G20020 (E24 to) 10a	AND		MEN × MI	NITES
REPLACEABLE	SE XX	REMOVAL INS	TRUCTIONS			ACTUAL
	nect 1 electrical	3	demove and Replac	e	1 x 15	

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MAII	ITENANCE I	DATA RECORD	SYSTEMELECTRICS	REF.	
AVRO A	IRCRAFT LTD.	Engineering Div.	AND	11-E	15/28
DISTRIBUTION:		A/C TYPE - Arrow 1	COMPONENT		
	Brown Knowlton	EFF. A/C - 25201	Switch - Mas	ter Dim	
MANUFACTURE	r's part no. 8824K8		AVRO PART NO.	40	Livre .
	R'S NAME Cuttler I		*		
AVROCAN SPEC			DEE DWG		
ENVELOPE SIZE	1 5/16" x 1 1/8"	x 3/4" weight .10 LB.	REF. DWGS.		
	ounted on panel El	5 located in the front	7-1100-2 sht 7-1100-3 sht		
	switch a dimming arning lights.	circuit for the master	REF. M.D.R.		
			RELIABIL	LITY	
			OVERHAUL LIFE 1 WASTAGE Q.T.R.	500	HRS.
INSPECTION	N			MEN X	MINUTE
PERIOD		OPERATION TO BE PERFORME	žD.	EST.	ACTU
	71/Maint			1 x 2	
		ACCESSIBILITY			
		ACCESSIBILITY			
wignes (r. c.	Remove p	panel El5			
ISSUE	1				
ISSUE 7	1 Oct 57				
ISSUE DATE 7 COMPILED W	1				

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100 - 120		LUBRICATI	ON NIT	BUNKAREE	A
APPLICATION	MATERIAL	SPECIFICATION	FREQUENCY	ACCESS	y 45
		MI DESCRIPTION OF THE PARTY OF	1917 Year		
		1	L - SIRJANS		
DETAILS:					
		GROUND SUPPORT		41.	
SPECIAL	TOOLS FOR AIRCRA	FT USE	SPECIAL TO	OOLS FOR BENCH USE	
NIL			NIL		
		Z N T	GROUND H	ANDLING EQUIPMENT	-
GROUN	ID TESTING EQUIPM	SIV I	3,700,10		
A-C Groun	d Power Unit		Cockpit A	Access Stand	
INTERCHANGEABL	E XX	D=112V11	STRUCTIONS	MEN X	MINUTES
REPLACEABLE	300	REMOVAL IN	31 KUC11UN3	EST.	ACTUAL
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				
1 Remove	6 electrical c	onnections.			
2 Remove	1 mounting nut	•			
			Remove and Repl	lace 1 x 10	
			Nomo vo ana		
				orogent.	

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MAINTEN	IANCE	DATA RECORD	SYSTEM	REF.	
AVRO AIRCRAFT	LTD.	Engineering Div.	ELECTRICS	TION	15/35
DISTRIBUTION: STANDA S. Brown K. Know	n	A/C TYPE - Arrow l EFF. A/C - 25201	Resistor - 1 position war		ear
MANUFACTURER'S PART	r no.		AVRO PART NO.		Dema
MANUFACTURER'S NAME		o. No.	R.C.42BF-300	J	
ENVELOPE SIZE .7"	x 5/16" dia	WEIGHT LB.	REF. DWGS. 7-1100-2 sht	6	
LOCATION Mounted	on panel 15	5 located in armament bay.	7-1100-2 sht 7-1100-3 sht 7-1252-68		
		328			
	ide dimming n warning li	for the landing gear ght.	REF. M.D.R.		
			RELIABII	LITY	-
			OVERHAUL LIFE WASTAGE Q.T.R.	1500	HRS.
INSPECTION		OPERATION TO BE PERFORME	D	MEN X	MINUTES
PERIOD		SKULLDMALINI DYAMMAN		ES1.	ACTUA
Primary	71/Maint	n check. (See Maintenance Ins	structions Report	1900 KG 1900 PM	1 0
		ACCESSIBILITY			
	Remove p	panel El5			
		<b>,</b>			
DATE 8 Oct 5				-	
The second secon				-	-
COMPILED WO2 Wer	ILWORTH				
				-	
CHECKED K.P. LO	owe				

		LUBRICATI	ON NIL	HANCE		
APPLICATION	MATERIAL	SPECIFICATION	FREQUENCY	ora r	ACCESS	44
		D L VOY	N - REAL DOWN		CHATE (HO)	TUBINTER
Annah Street,		5,000	6 × 30A AV8			
	The state of the s					
DETAILS:						
	22.75	GROUND SUPPORT	EQUIPMENT	DE BUTTE W	ME WAR	on a service
SPECIAL T	TOOLS FOR AIRCRAFT	USE	SPECIAL T	OOLS FOR BENG	CH USE	
	93-1761-0		THE ITE SECTION C.	rauch no p	A. P. CHAIR CO.	
NIL			NIL			
		100				
GROUNI	D TESTING EQUIPMEN	т	GROUND H	ANDLING EQUIP	MENT	
Name of the Party	The second second					
	NO. ATTACK	AND .				
A-C Ground	Power Unit		Cockpit Access Stand			
NTERCHANGEABLE	Txx T				MEN X	MINUTES
REPLACEABLE	122	REMOVALINS	STRUCTIONS		EST.	ACTUAL
1 Diagonno	ct 2 electrical		on check, they b	Payerth	VYS	10-13
	rom spring clip					
			D , D			
			Remove and Rep	lace	1 x 4	

		DATA RECORD	ELECTRICS	REF.	21/22
	N: STANDARD +	Engineering Div.	COMPONENT		
/13   K100   10	S: Brown		Parabrake		
	K. Knowlton	EFF. A/C - 25201	Press-to-tes	st Light	
MANUFACTU	RER'S PART NO.		AVRO PART NO.		
			CS 1 107 1		
MANUFACTU	RER'S NAME	488414	CS-1-107-1		
AVROCAN SP	PEC. E.C	0. NO.			****
ENVELOPE S	IZ E	WEIGHT LB.	7-1100-2 sh 7-1100-3 sh	t 23	
	ounted on Panel E21 peed Brake.	, located forward of the L.H.	/-II00-) SII	0 11	
	hould illuminate who olenoid is energized	en pressed when the parabraked. and locked.	REF. M.D.R.		
		OFFICE STATE OF THE STATE OF TH	RELIABIL	. IT Y	
1		111	OVERHAUL LIFE 15	00	HRS.
			Q.T.R.	LEST DE	
INSPECT	TION	OPERATION TO BE PERFORMED		MEN X	MINUTES
PERIC	OC.			EST.	ACTUA
Primary		Check. (See Maintenance Inst 1/Maint 11/4)	ructions	1 x 2	11130
25 Hrs.		ectrical connections for secu unting for security.	rity	1 x 5	
	-				
3					
4		A C C E SS I B I L I T Y			
3		A C C E SSIBILITY			
4	With pan	ACCESSIBILITY nel E21 removed			
3	With pan				
ISSUE	1				
ISSUE DATE	1 15 Oct 57				
	1				

		LUBRICATI	ON NIL			
PPLICATION	MATERIAL	SPECIFICATION	FREQUENCY		ACCESS	78
	The last	MATERIAL MATERIAL	- 1170 24		THE PERSON NAMED IN	CONTRA
August A	SHANDS TO	Toronto I	- 504 -010			
				and the	in an	
ETAILS:						
	nder Santo Inchine	GROUND SUPPORT	EQUIPMENT		The ways o	eus revise
SPECIAL	TOOLS FOR AIRCRAF	T USE	SPECIAL T	OOLS FOR BEN	CH USE	
			and the second of	100 100 N	The state of the s	
			NITI			
NIL		THE PUBLISHED THE	NIL			
GROUI	ND TESTING EQUIPME	NT	GROUND H	ANDLING EQUIP	MENT	
	VI was some	1000				
		56.00				
A-C. Ground F	Power Unit	7.0	NIL			
NTERCHANGEABL	E XX	03500000			MEN X	MINUTES
EPLACEABLE	1302	REMOVAL INS	TRUCTIONS		EST.	ACTUAL
5 x 1			- (distributed) in	Jecush		
1 Remove 3	electrical conn	nections.				
	mounting nut					25, Hr
			Remove and Re		1 x 10	
			nemove and ne	ртасе	1 X 10	

	INTENANCE	DATA RE	CORD	SYSTEMHYDRAULICS - UTILITY	REF. NO. 19-7 11-E161
ISTRIBUTIO	D. Royston S. Brown K. Knowlton	A/C TYPE - EFF. A/C - 2	Arrow 1	COMPONENT Valve - Brake	11-E162
	RER'S PART NO. HP402	2100		AVRO PART NO.	
	rer's name Hydra	a Power	5000	7-1954-11	
OPE S	101 - 811 x /11	WEIGHT	LB,	REF. DWGS.	
	Armament Bay Sta		4.7	7-0119-55 7-1100-3 sht 7-1100-2 sht	
FUNCTION	To apply hydraul	lic pressure to wh	neel brakes	REF. M.D.R.	
				RELIABIL	LITY
N	COV WHITE AND ADDRESS.			overhaul Life 1500 WASTAGE Q.T.R. Pending	
INSPECT	TION	OPERATION	N TO BE PERFORMED		MEN × MINUTES
PERIO	OD .		10 88 . 2		EST. ACTUAL
Primar Electr Primar	rics Check	k electrical conne	ector for secur	ity and damage.	lxl
Airfra	ame Visua	ū			lxl
25 hrs Airfra		k for security, da	amage, cracks,	corrosion and	1 x 5
50 hrs	ame Carry	y out functional c	check.		1 x 10
50 hrs	rics Carry	y out a functional ructions Report 71	1/Maint 11/4)	faintenance	2 x 5
	,				
41 - 14 41 - 14 10 - 14	Unobs	structed when miss	sile pack is re	moved.	
*******	1 1	2	3	4	5
ISSUE	1 1				Oct 8/57
DATE	June 29/55	November 14/55	March 26/56	January 3/57	1000 0/5/
	June 29/55 E. Burn	November 14/55  E. Burn	C. Beanland	C. Beanland	WO2 Wentwort
DATE					

SPECIAL TOOLS	S FOR AIRCRAFT	sa salari a	SPECIAL T	FOOLS FOR BENCH USE	MOITSAINT (I) C. T. T. T. T. T. T. T. T. T
NIL  GROUND TE  Hydraulic Pow	STING EQUIPMENT	USE	EQUIPMENT SPECIAL T	FOOLS FOR BENCH USE	C S S S S S S S S S S S S S S S S S S S
NIL  GROUND TE  Hydraulic Pow	STING EQUIPMENT	USE	EQUIPMENT SPECIAL T	rools for Bench use	EST SATON
NIL  GROUND TE  Hydraulic Pow	STING EQUIPMENT	USE	EQUIPMENT SPECIAL T	rools for Bench use	E HATOL
NIL  GROUND TE  Hydraulic Pow	STING EQUIPMENT	USE	SPECIAL T	Sterring plans	I MONTO
NIL  GROUND TE  Hydraulic Pow	STING EQUIPMENT	sa salari a	NIL	Sterring plans	Z MOTOR
Hydraulic Pow	Other Manager	г			
	TI II		GROUND H	HANDLING EQUIPMENT	
				ance Platform 4G/ Access Stand	1596
INTERCHANGEABLE XX		2540441 14	CTRUCTIONS	ME!	N × MINUTE
REPLACEABLE		REMOVALIN	STRUCTIONS	EST	T. ACTU
To Remove:  Airframe: 1 Disconnect 2 Disconnect 3 Remove atta  Electrics: Disconnect 1	cable from r chment bolts	rudder pedal. Remo	ove and Replace		SO SET.
			Lancisoni's a social control of the	Terral Security	

CTUAL

MAINTENANCE DATA RECORD  AVRO AIRCRAFT LTD.  Engineering Div.	SYSTEM HYDRAULICS -UTILITY	REF. NO. 19-25 11-E168
K. Knowlton D. Royston D. Brown  A/C TYPE - Arrow 1  EFF. A/C - 25201	Valve - Speed Brake Selec	tor
MANUFACTURER'S PART NO. 14130  MANUFACTURER'S NAME Weston Hydraulics  AVROCAN SPEC. E-359 E.O. NO.	AVRO PART NO. 7-1956-13	
ENVELOPE SIZE $6\frac{1}{2}$ " x 5" x 4" WEIGHT 3 LB.  LOCATION Sta. 538 inside fuselage - left hand side	7-1100-2 7-1100-3 7-1956-1	MEDINATE STATE
FUNCTION To direct flow of hydraulic fluid to speed brake jacks	REF. M.D.R.  RELIABILIT	Y
THE REAL PROPERTY CONTRACTOR OF THE PARTY OF	OVERHAUL LIFE 1500 WASTAGE . Q.T.R. Pending	HRS.

INSPECT	ION	OPERATION	TO BE PERFORMED	MEN X	MEN × MINUTES	
PERIO			EST.	ACTUAL		
			SHE SEVENDED	1	177.418	
Primary Electric	cs Check	electrical conne	ector for security and damage	2. 1 x 1		
Primary Airframe	e Visual	AND THE ST		1 x ½		
25 Hrs. Airframe	la l					
25 Hrs. Electric		ion Test. See Mai	ntenance Instructions Report	;		
	And E	lectrical Equipme	pment door - 52 camlocs Remove and repent panels - 74 camlocs Remove and rep			
	•	ace ground fault	relay - 4 bolts Remove and re	place 1 x 2		
SSUE	5	6				
ATE	January 3/56	15 Nov. 57				
OMPILED	C. Beanland	W02 Wentworth				
HECKED	WO2 Wentworth	C. Beanland				
PPROVED	R.F. Reid	R.F. Reid				

		LUBRICAT	LION NIT				
APPLICATION	MATERIAL	SPECIFICATION				CESS	
G matrial	oc videra projec	IN LINE OF	- 3.8 432	are and a second	ACHANINA AKON BOO LAN	real	
DETAILS:	47 1985	PHYA		OFIAT ANY	THOME RESERVED	o), cotyas	
	-	GROUND SUPPORT	C EQUIPMENT	Jan 1975	AND MAIN W	*/ ACS/08/V	
SPECIAL 7	TOOLS FOR AIRCRA			COOLS FOR BE	NCH USE		
GROUNI	D TESTING EQUIPM	ENT	GROUND I	HANDLING EQUI	PMENT		
Hydraulic Tes Air Condition	t Machine Tra:	iler	Maintenance Plat Cockpit Access S	form 4G/159			
Hydraulic Tes	t Machine Tra:	iler	Maintenance Plat	form 4G/159			
Hydraulic Tes	t Machine Tra er and Genera	iler tor A-C	Maintenance Plat	form 4G/159	96	MINUTES	
Hydraulic Tes Air Condition	t Machine Tra er and Genera	iler tor A-C	Maintenance Plat Cockpit Access S	form 4G/159	96	1	
Hydraulic Tes Air Condition	t Machine Traier and General  x  Relieve pres Disconnect ( Remove 2 fai exchanger in	iler tor A-C	Maintenance Plat Cockpit Access S ISTRUCTIONS	form 4G/159 tand	96	_	
Hydraulic Tes Air Condition  INTERCHANGEABLE  REPLACEABLE  Airframe: 1. 2. 3.	t Machine Trailer and General  x  Relieve pres Disconnect ( Remove 2 fai exchanger in Remove 4 att	REMOVALING SSURE from System. 6 hydraulic lines. irleads on forward norder to remove tachment bolts.	Maintenance Plat Cockpit Access S ISTRUCTIONS  A side of Fuel/oi 4 of these lines hove and replace	form 4G/159 tand	96 Men × 1		
Hydraulic Tes Air Condition  INTERCHANGEABLE  REPLACEABLE  Airframe: 1. 2. 3.	t Machine Trailer and General  x  Relieve pres Disconnect ( Remove 2 fai exchanger in Remove 4 att	REMOVALING SSURE from System. 6 hydraulic lines. irleads on forward norder to remove tachment bolts.	Maintenance Plat Cockpit Access S ISTRUCTIONS  A side of Fuel/oi 4 of these lines hove and replace	form 4G/159 tand	MEN X I	MINUTES	

DISTRIBUTIONS K	STANDARD + Brown  Knowlton	Engineering Div		COMPONENT		
		EFF. A/C - 2520]		Valve - Landing Gear	Selecti	on
	er's part no. 13670			AVRO PART NO.		шини
AVROCAN SPE	er's name Westo	n Hyd.		7-1956-12		
PAUPI ODE ÉE	ZE 6" x 5" x 5"	<b>WEIGHT</b> 4.55	IB	REF. DWGS.		
LOCATION S		fuselage right of heat	LB,	7-1100-3 sh 7-1100-2 sh		
	To direct the fl landing gear ope	REF. M.D.R. 19-17				
				RELIAB	ILITY	
				OVERHAUL LIFE WASTAGE Q.T.R. Pending	500	HRS.
INSPECTION	ON	OPERATION TO BE	PERFORME	)	MEN X	MINUTES
PERIOD	)	OPERATION TO BE			EST.	ACTUA
Daily 25 hrs. 50 hrs.	. Carry	security of electrical out functional check. t 71/Maint 11/4)	1159 The		l x l	
50 51		ACCEPTION	10 10			
		ACCESSIBILITY  igh hydraulics equipmentualics.	t access	door -		
		Re	move and	Replace	1 x 5	
ISSUE	1	2				
DATE	Apr 4/56	8 Oct 57				
	D.Collingwood	WO2 Wentworth				
	G. Emmerson	Kr.P. Lowe R.F. Reid				

	A STATE OF THE STA	LUBRICAT	ION NIL	PERRNATHEAN
APPLICATION	MATERIAL	SPECIFICATION	FREQUENCY	ACCESS
		T MOAD	- BRITT DURK	
HOLDSELDS TO		ristes	- 24 334	
DETAILS:	00,000,000,00			The transmission of the second
		GROUND SUPPORT	EQUIPMENT	NO 12 NO 1 NOT THE PROPERTY.
SPECIAL TO	OOLS FOR AIRCRAFT	USE	SPECIAL TOO	LS FOR BENCH USE
	THE SHIPPING		THE CHARLES SERVICE	autori egi vadi di
NTT				
NIL		THE PART OF THE	NIL	
GROUND	TESTING EQUIPMEN	т	GROUND HAD	NDLING EQUIPMENT
		wa T		
A-C Ground	Supply Unit	ATP	Maintenanc	e Platform 4G/1596
		Chickenter Indian		
INTERCHANGEABLE	XX	REMOVAL IN	STRUCTIONS	MEN × MINUTES
REPLACEABLE		REMOTALIN	31 K 0 C 1 10 K 3	EST. ACTUAL
l Disconnec	ct one electric	al connector.	idely lo withmes	
	ct one electric	al connector.	Remove and	
l Disconnec	ct one electric			
			Remove and	Replace 1 x 2
			Remove and	Replace 1 x 2
			Remove and	Replace 1 x 2
			Remove and	Replace 1 x 2
			Remove and	Replace 1 x 2

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	INTENANCE	DATA RE	CORD	HYDRAULICS -	1 '	
AVRO	AIRCRAFT LTD.	Engine	eering Div.	UTILITY	11=1	E-271
ISTRIBUTIO	N: STANDARD +	A/C TYPE -	Arrow 1	COMPONENT		
	S. Brown	EFF. A/C -	25201	Selector Va		
	K. Knowlton	Nose Wheel	Steerin	5		
ANUFACTU	rer's part no. AE41	8		AVRO PART NO.		
ANUFACTU	RER'S NAME Avia	tion Electric		7-1952-23		
VROCAN SP	Ec. E354	E.O. NO.				
ENVELOPE S	EIZE 7" x 3" x 2"	WEIGHT	1.7 (est) LB.	7-1900-5 7-1100-2 sh	+ 12	
OCATION	Sta. 215 behind	navigator's bulk	head	7-1100-3 sh		
UNCTION	To direct suppl wheel steering.	y of hydraulic flu	uid for nose	REF. M.D.R.		
				RELIABIL	IT Y	
				OVERHAUL LIFE 1500 WASTAGE Q.T.R.		HRS.
INSPECT	TION	OPERA TYON	TO BE PERFORME		MEN × M	INUTES
PERIC	OD CO	OPERATION	TO BE PERFORME	D	EST.	ACTUA
Electric 25 hrs. Airfran	. Chec	k for security, d	amage, čracks,	corrosion and leaks	1 x 5	
50 hrs. Airfra Electr	me & Repo	y out functional or rts 71/Maint 11/4		intenance Instructio 19/5)	ns 2 x 4	
	···		1			
		ACCESSIBILIT	TY			
		ough air conditions	ing bay access			
72		ough air condition	ing bay access na connection.		1 x 40	
ISSUE	76 s	ough air condition screws and 1 anten	ing bay access na connection. Remov	e and Replace	,	5
ISSUE DATE	76 s	ough air conditions screws and 1 anten	ing bay access na connection. Remov	re and Replace		5
DATE	76 s	ough air conditions crews and 1 antended to 2  November 16/55	ing bay access na connection. Remov	e and Replace  4  January 3/57	Oct 4/	57
	76 s	ough air conditions screws and 1 anten	ing bay access na connection. Remov	re and Replace		57 ntwort

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MAINTENANCE

ACCESS

GROUND SUPPORT	T EQUIPMENT
SPECIAL TOOLS FOR AIRCRAFT USE	SPECIAL TOOLS FOR BENCH USE
	SHALLON AND PARTY BULLING STR. SOLD SOLD SOLD SOLD SOLD SOLD SOLD SOLD
NIL	NIL
A CONTRACTOR OF THE PARTY OF TH	
GROUND TESTING EQUIPMENT	GROUND HANDLING EQUIPMENT
Hydraulic Test Machine Trailer A-C Ground Power Unit.	Maintenance Platform 4G/1596

LUBRICATION NIL

FREQUENCY

SPECIFICATION

APPLICATION

DETAILS:

MATERIAL

INTERCHANGEABLE	REMOVAL INSTRUCTIONS		MEN X	MINUTES
REPLACEABLE		Nemotial Individual In	EST.	ACTUAL
Airfra	me		8014	palla
		pressure from system.		
2 Disc	onne	ct 4 hydraulic lines.	4.5	Taria.
3 Remo	ve 3	attachment bolts.	0:1	THE ROLL
		Estimated - Remove and Replace	1 x 30	of CE
			1 11 50	- A
Electr				
Discon	nect	l Electrical connector.		
		Remove and Replace	1 x 2	
		A COLUMN TO THE PARTY OF THE PA	-	200
			1	
				1000
			37.51.3	
				18414

MAINTENANCE DATA RECORD				SYSTEM	REF. NO.
AVRO AIRCRA	AFT LTD.	Engineering 1	Div.	ELECTRICS	11-E279
STRIBUTION: STAN	DARD +	A/C TYPE - Arro		COMPONENT	
S. Bro K. Kno		EFF. A/C - 2520		Solenoid Dra Latch.	gchute Doo
MANUFACTURER'S PA				AVRO PART NO.	
MANUFACTURER'S NA		Electric Ltd.		7-1159-11	
				REF. DWGS.	1 5
ENVELOPE SIZE O	.04" x 2.51	weight 1.5	EST LB.	7-1159-1	1
LOCATION FWD	of stinger	- STA. 798 to 80	03	7-3159-1 7-1100-2 Sh 7-1100-3 Sh	t. 24 t. 11
	ctuating the	e dragchute door	e latch	REF. M.D.R.	
				RELIABIL	ITY
				overhaul life Pend wastage o.t.r. Pending	
INSPECTION PERIOD		OPERATION TO E	E PERFORMEI		MEN × MINUTES
Primary		al check. (See Maint. 11/4)	Maintenar	nce Instructions	2 x 2
25 hours		lenoid for secur ectrical connect	tor for s		1 x 7
	intermos so			imisers s m	
	ulle conse su			Telloard a no	
				le one avenuel .[	
		ACCESSIBILITY			
	Remove 4 lock Solenoi	ACCESSIBILITY  dragchute from stinger from air ing clamps daccessible thr Sta. 803	craft by	releasing	,
	Remove 4 lock Solenoi	dragchute from stinger from ain ing clamps d accessible thr	ccraft by	releasing	2 x 15
ISSUE	Remove 4 lock Solenoi	dragchute from stinger from ain ing clamps d accessible thr	ccraft by	releasing	2 x 15
	Remove 4 lock Solenoi former	dragchute from stinger from air ing clamps d accessible the Sta. 803	ccraft by	releasing	2 x 15
рате 9 ја	Remove 4 lock Solenoi former	dragchute from stinger from air ing clamps d accessible the Sta. 803	ccraft by	releasing	2 x 15
DATE 9 Ja COMPILED WO2	Remove 4 lock Solenoi former	dragchute from stinger from air ing clamps d accessible the Sta. 803	ccraft by	releasing	2 x 15

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Up

MAINTEN	ANCE D	ATA RECORD	SYSTEM	REF.	NO.
AVRO AIRCRAFT		Engineering Div.	ELECTRICS	11-E	1006/1
DISTRIBUTION: STANDAR S. Brown K. Knowl	D +	A/C TYPE - Arrow 1 EFF. A/C - 25201	COMPONENT Switch - Nos	se Door	- Up
MANUFACTURER'S PART	NO.		AVRO PART NO.	1	MATTE
MANUFACTURER'S NAME	E.O.	NO.	MS25040-3		
			REF. DWGS.		
ENVELOPE SIZE 2.56"	x 1.56" x	L.2" WEIGHT 0.5 LB.		- 10	
LOCATION Nose whe	el well LH	side	7-1100-2 sht		
	an indication locked.	on when the nose door	REF. M.D.R.		
			RELIABILI	TY	
		annini al	overhaul life 1500 wastage Q.T.R.		HRS.
INSPECTION		OPERATION TO BE PERFORME		MEN X I	MINUTES
PERIOD		PENDVAL INSTRUCTIONS	32.5	EST.	ACTUA
25 Hrs	Function 71/Maint		tructions Report	1 x 2	C C C C C C C C C C C C C C C C C C C
1 x 30					
		ACCESSIBILITY			

ISSUE

DATE 2 Oct 57
COMPILED WO2 Wentworth
CHECKED K.P. Lowe
APPROVED R.F. Reid

		LUBRICAT	ION NIL ,	* V( * ?	
APPLICATION	MATERIAL	SPECIFICATION	FREQUENCY	ACCESS	N.
	- 201206	1003	- 500 MES		USTYTE!
DETAILS:	F-0108578	74	OF 0.3	DIAM BASISTO	
		GROUND SUPPORT		T to Mile Some	
SPECIAL	TOOLS FOR AIRCRAF	r use	SPECIAL TOOLS	FOR BENCH USE	
NIL		M. C.			
GROUN	D TESTING EQUIPMEN	IT .	GROUND HANDL	ING EQUIPMENT	
A-0 G	round Power Uni	OPRESSOR SELECTION	Maintenance Pl	actorm 447 1596	
INTERCHANGEABLE	xx x	REMOVAL IN	STRUCTIONS	MEN × M	INUTES
REPLACEABLE		REMOTAL III	51K04110K0	EST.	ACTUAL
Remove Unsold	e 3 Mounting bo	lts. L connections.	Remove and Replace	1 x 30	
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MAINTENA	NCE D	ATA RE		SYSTEM ELECTRICS	REF. I	vo. 1012/1
AVRO AIRCRAFT LT	D.	Engine	ering Div.	100000000000000000000000000000000000000	PCA 16	3 N K
S. Brown K. Knowlton		A/C TYPE - EFF. A/C -	Arrow 1 25201	COMPONENT SWITCH - NO Gear Down	SE Landi	ng
MANUFACTURER'S PART NO				AVRO PART NO.		
MANUFACTURER'S NAME				MS-25040-3		
AVROCAN SPEC.	E.O. N	NO.				
envelope size2.56" x	1.56" x 1.3	2 WEIGHT	0:5 LB.	REF. DWGS.		
	_			7-1100-2 sh	t 12	
LOCATIONMounted on f	ront landi:	ng gear		7-1100-3 sh	t 5	
ing gear is	warning li	ight until th n. In a land	ne front land- ling gear down	REF. M.D.R.		
lock position	n, complete	es a supply t	o the front own position"	RELIABI	LITY	
Talluting gear	position	inatouooi u	, , , , , , , , , , , , , , , , , , ,	OVERHAUL LIFE WASTAGE Q.T.R.	1500	HRS.
	TISOPECITION			1		
INSPECTION		OPERATION	TO BE PERFORMED		MEN × M	INUTES

INSPECTION OPERATION TO BE		PERFORMED MEN X MINUTES
PERIO		EST. ACTUAL
25 Hrs.	Function Check. (See Mainte 71/Maint 11/4)	enance Instructions Report
	RANGE BOOK OF THE PROPERTY.	
	A C C E S S I B I L I T Y	
	Unobstructed	A CONTRACTOR OF THE PROPERTY O
	onobs of ac bed	
SSUE	1	
ATE	7 Oct 57	
	WO2 Wentworth	
COMPILED	WO2 Wentworth K.P. Lowe	

		LUBRICAT	ION NIL	HANGE	R F West	
APPLICATION	MATERIAL	SPECIFICATION	FREQUENCY	ota t	ACCESS	(6
belleial E	OF A SECURIOR	Value T nounty	- NAC 1998			
DETAILS:	(-0,055-86)			54	244 PRESENT	
		GROUND SUPPORT	EQUIPMENT	P 30, 1 × 9	8-, 3-10	autova
SPECIAL	TOOLS FOR AIRCRAFT	r use	SPECIAL TO	OOLS FOR BEN	CH USE	
NIL		description	NIL			
GROUI	ND TESTING EQUIPMEN	T	GROUND H	ANDLING EQUIP	MENT	-
A-C Ground F	Power Unit	WO ANR 1-0	Maintenance 4G/1596	Platform	Von	
NAME DOLLANGE A DI	m VV	described to 0,	- Monte Super-		MENY	ADVITED
NTERCHANGEABLE REPLACEABLE	E XX	REMOVAL IN	STRUCTIONS		MEN X I	ACTUA
~ VIBOLUEI	4 electrical con	HIVO ATAID.	Remove and Replace	ce	1 x 45	
						3 00
						3 10 3 11 2 11 10 10 2 10 (10)

MAINTENANCE	DATARECORD	SYSTEM ELECTRICS	REF. NO. 11-E1021/2
AVRO AIRCRAFT LTD.	Engineering Div.	AND THE STATE OF T	TOTAL TOTAL
DISTRIBUTION: STANDARD + S. Brown K. Knowlton	A/C TYPE - Arrow 1 EFF. A/C - 25201	COMPONENT SWITCH - Nos	se Wheel
MANUFACTURER'S PART NO.  MANUFACTURER'S NAME  AVROCAN SPEC.	E.O. NO.	AVRO PART NO. MS25040-3	P
ENVELOPE SIZE 2.56" x 1.56"	" x 1.2" WEIGHT 0.5 LB.	REF. DWGS.	
LOCATION Mounted in the no	ose landing gear.	7-1100-2 sht 7-1100-3 sht	
switch is closed cuit.	weight of A/C on scissors, the to the nose wheel steering cir-	REF. M.D.R.	
THE STATE OF	etti kaves otoka tissi (a aktomet. Stanovit sa	RELIABIL	ITY
	J.Br	OVERHAUL LIFE WASTAGE Q.T.R.	1500 HRS.
INSPECTION	OPERATION TO BE PERFORMED		MEN × MINUTES
PERIOD	OLDIGITION TO DE PERFORMET		POT ACTIVAT

INSPECT	TION	OPERATION TO BE PERFORMED		MINUTES
PERIO	D		EST.	ACTUAL
25 Hrs.		ction Check (See Maintenance Instructions Report Maint 11/4)	1 x 5	A. 173 T. W.
				1 5
	1970		enti earbili e à teblos	
	x.5			
		ACCESSIBILITY	1	
	W			
	Mour leve	nted inside the nose landing gear suspension		
	7010	E1 .		
SSUE	1			
DATE	8 Oct 57			
COMPILED	WO2 Wentworth			
CHECKED	K.P. Lowe R.F. Reid			

Remove the jacking point bar 2 bolts Remove the cir-clip. Remove the roll pin (method pending) Withdraw the micro switch and mounting from the suspension lever Unsolder 4 electrical connections Remove 3 mounting bolts.  Remove and Replace 1 x	GROUND SUPPORT EQUIPMENT  SPECIAL TOOLS FOR ARCRAFT USE  SPECIAL TOOLS FOR ARCRAFT USE  NIL  NIL  A-C Ground Power Unit  NIL  TERCHANGEABLE  REMOVAL INSTRUCTIONS  MEN × MINUTES EST. ACTUAL  1. Remove the jacking point bar 2 bolts 2. Remove the cir-clip, Remove the roll pin (method pending). Withdraw the micro switch and mounting from the suspension lever Unsolder 4 electrical connections 3. Remove 3 mounting bolts.  Remove and Replace  1. x			LUBRICATIO	ON NIL	334443		W
GROUND SUPPORT EQUIPMENT  SPECIAL TOOLS FOR ARCRAFT USE  SPECIAL TOOLS FOR ARCRAFT USE  GROUND TESTING EQUIPMENT  GROUND HANDLING EQUIPMENT  TERCHANGEABLE XX  REMOVAL INSTRUCTIONS  MEN X MINUTES  EST. ACTUAL  Remove the jacking point bar 2 bolts Remove the cir-clip. Remove the roll pin (method pending) Withdraw the micro switch and mounting from the suspension lever Unsolder 4 electrical connections Remove 3 mounting bolts.  Remove and Replace 1 x	GROUND SUPPORT EQUIPMENT  SPECIAL TOOLS FOR AIRCRAFT USE  OROUND TESTING EQUIPMENT  OROUND HANDLING EQUIPMENT  OROUND HANDLING EQUIPMENT  TERCHANGEABLE XX REMOVAL INSTRUCTIONS  MEN X MINUTES  EST. ACTUAL  Remove the jacking point bar 2 bolts Remove the cir-clip. Remove the roll pin (method pending) Withdraw the micro switch and mounting from the suspension lever Unsolder 4 electrical connections Remove 3 mounting bolts.  Remove and Replace 1 x	PPLICATION	MATERIAL	SPECIFICATION				TA.
GROUND SUPPORT EQUIPMENT  SPECIAL TOOLS FOR AIRCRAFT USE  SPECIAL TOOLS FOR AIRCRAFT USE  SPECIAL TOOLS FOR BENCH USE  NIL  OROUND TESTING EQUIPMENT  GROUND HANDLING EQUIPMENT  NIL  TERCHANGEABLE XX REMOVALINSTRUCTIONS  Remove the jacking point bar 2 bolts Remove the cir-clip. Remove the roll pin (method pending) Withdraw the micro switch and mounting from the suspension lever Uncolder 4 electrical connections Remove 3 mounting bolts.  Remove and Replace  L x	GROUND SUPPORT EQUIPMENT  SPECIAL TOOLS FOR ARCRAFT USE  SPECIAL TOOLS FOR BENCH USE  NIL  NIL  GROUND TESTING EQUIPMENT  GROUND HANDLING EQUIPMENT  TERCHANGEABLE XX  REMOVAL INSTRUCTIONS  MEN X MINUTES  FETALEEABLE  Remove the jacking point bar 2 bolts Remove the oir-clip. Remove the roll pin (method pending) Withdraw the micro switch and mounting from the suspension lever Unsolder 4 electrical connections Remove 3 mounting bolts.  Remove and Replace  1 x			I words	- 44/2 4.4			
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GROUND SUPPORT EQUIPMENT  SPECIAL TOOLS FOR AIRCRAFT USE  NIL  GROUND TESTING EQUIPMENT  GROUND HANDLING EQUIPMENT  GROUND HANDLING EQUIPMENT  NIL  TERCHANGEABLE XX REMOVAL INSTRUCTIONS  Remove the jacking point bar 2 bolts Remove the cir-clip. Remove the cir-clip. Remove the roll pin (method pending) Withdraw the micro switch and mounting from the suspension lever Unsolder 4 electrical connections Remove 3 mounting bolts.  Remove and Replace 1 x	GROUND SUPPORT EQUIPMENT  SPECIAL TOOLS FOR ARCRAFT USE  SPECIAL TOOLS FOR BENCH USE  NIL  GROUND TESTING EQUIPMENT  A-C Ground Power Unit  NIL  TERCHANGEABLE XX REMOVALINSTRUCTIONS  Remove the jacking point bar 2 bolts Remove the oir-clip. Remove the roll pin (method pending) Withdraw the micro switch and mounting from the suspension lever Unsolder 4 electrical connections Remove 3 mounting bolts.  Remove and Replace  1 x	ETAILS:	OF BRAN ORD			09.19	9 PERSON	MANUPAC
GROUND SUPPORT EQUIPMENT  SPECIAL TOOLS FOR AIRCRAFT USE  NIL  GROUND TESTING EQUIPMENT  GROUND HANDLING EQUIPMENT  OF GROUND HANDLING EQUIPMENT  ACT Ground Power Unit  NIL  TERCHANGEABLE XX REMOVAL INSTRUCTIONS  Remove the jacking point bar 2 bolts Remove the cir-clip. Remove the cir-clip. Remove the roll pin (method pending) Withdraw the micro switch and mounting from the suspension lever Unsolder 4 electrical connections Remove 3 mounting bolts.  Remove and Replace  1 x	GROUND SUPPORT EQUIPMENT  SPECIAL TOOLS FOR ARCRAFT USE  SPECIAL TOOLS FOR BENCH USE  NIL  OROUND TESTING EQUIPMENT  GROUND HANDLING EQUIPMENT  NIL  TERCHANGEABLE XX REMOVALINSTRUCTIONS  Remove the jacking point bar 2 bolts Remove the cir-clip. Remove the roll pin (method pending) Withdraw the micro switch and mounting from the suspension lever Unsolder 4 electrical connections Remove 3 mounting bolts.  Remove and Replace  1 x							
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GROUND TESTING EQUIPMENT GROUND HANDLING EQUIPMENT  A-C Ground Power Unit  NIL  TERCHANGEABLE XX REMOVAL INSTRUCTIONS  Remove the jacking point bar 2 bolts Remove the cir-clip. Remove the roll pin (method pending) Withdraw the micro switch and mounting from the suspension lever Unsolder 4 electrical connections Remove 3 mounting bolts.  Remove and Replace  1 x	AC Ground Power Unit  NIL  TERCHANGEABLE XX REMOVALINSTRUCTIONS  Remove the jacking point bar 2 bolts Remove the cir-clip. Remove the roll pin (method pending) Withdraw the micro switch and mounting from the suspension lever Unsolder 4 electrical connections Remove 3 mounting bolts.  Remove and Replace  1 x			GROUND SUPPORT	EQUIPMENT	1987, Z 3- 19	(Links)	NO.3 SPEED
GROUND TESTING EQUIPMENT  A-C Ground Power Unit  NIL  TERCHANGEABLE XX REMOVAL INSTRUCTIONS  Remove the jacking point bar 2 bolts Remove the oir-clip. Remove the roll pin (method pending) Withdraw the micro switch and mounting from the suspension lever Unsolder 4 electrical connections Remove 3 mounting bolts.  Remove and Replace 1 x	GROUND TESTING EQUIPMENT  A-C Ground Power Unit  NIL  TERCHANGEABLE XX REMOVAL INSTRUCTIONS  Remove the jacking point bar 2 bolts Remove the cir-clip. Remove the roll pin (method pending) Withdraw the micro switch and mounting from the suspension lever Unsolder 4 electrical connections Remove 3 mounting bolts.  Remove and Replace  Remove and Replace	SPECIAL '	TOOLS FOR AIRCRAFT	USE	SPECIAL TO	OOLS FOR BENCE	H USE	
GROUND TESTING EQUIPMENT  A-C Ground Power Unit  NIL  TERCHANGEABLE XX REMOVAL INSTRUCTIONS  Remove the jacking point bar 2 bolts Remove the oir-clip. Remove the roll pin (method pending) Withdraw the micro switch and mounting from the suspension lever Unsolder 4 electrical connections Remove 3 mounting bolts.  Remove and Replace 1 x	GROUND TESTING EQUIPMENT  A-C Ground Power Unit  NIL  TERCHANGEABLE XX REMOVAL INSTRUCTIONS  Remove the jacking point bar 2 bolts Remove the cir-clip. Remove the roll pin (method pending) Withdraw the micro switch and mounting from the suspension lever Unsolder 4 electrical connections Remove 3 mounting bolts.  Remove and Replace  Remove and Replace	III,			NIL			1
GROUND TESTING EQUIPMENT  A-C Ground Power Unit  NIL  TERCHANGEABLE XX REMOVAL INSTRUCTIONS  Remove the jacking point bar 2 bolts Remove the cir-clip. Remove the roll pin (method pending) Withdraw the micro switch and mounting from the suspension lever Unsolder 4 electrical connections Remove 3 mounting bolts.  Remove and Replace 1 x	GROUND TESTING EQUIPMENT  A-C Ground Power Unit  NIL  TERCHANGEABLE XX REMOVAL INSTRUCTIONS  Remove the jacking point bar 2 bolts Remove the cir-clip. Remove the roll pin (method pending) Withdraw the micro switch and mounting from the suspension lever in the suspension		1 10 10 10	N 100				10171017
TERCHANGEABLE XX REMOVAL INSTRUCTIONS    MEN X MINUTES   EST.   ACTUAL	TERCHANGEABLE XX REMOVALINSTRUCTIONS MEN X MINUTES EPLACEABLE EST. ACTUAL  Remove the jacking point bar 2 bolts Remove the cir-clip. Remove the roll pin (method pending) Withdraw the micro switch and mounting from the suspension lever Unsolder 4 electrical connections Remove 3 mounting bolts.  Remove and Replace 1 x			1-510 50 700 20				
A-C Ground Power Unit    NIL	A-C Ground Power Unit    Remove the jacking point bar 2 bolts	GROUN	D TESTING EQUIPMENT		GROUND H	ANDLING EQUIPM	MENT	
Remove the jacking point bar 2 bolts  Remove the cir-clip. Remove the micro switch and mounting from the suspension lever Unsolder 4 electrical connections Remove 3 mounting bolts.  Remove and Replace	TERCHANGEABLE XX REMOVAL INSTRUCTIONS    MEN × MINUTES							
REMOVAL INSTRUCTIONS    MEN × MINUTES	Remove the jacking point bar 2 bolts  Remove the cir-clip. Remove the micro switch and mounting from the suspension lever unsolder 4 electrical connections Remove 3 mounting bolts.  Remove and Replace	C Command D	Truit		NITT			
Remove the jacking point bar 2 bolts Remove the cir-clip. Remove the roll pin (method pending) Withdraw the micro switch and mounting from the suspension lever Unsolder 4 electrical connections Remove 3 mounting bolts.  Remove and Replace	Remove the jacking point bar 2 bolts Remove the cir-clip. Remove the roll pin (method pending) Withdraw the micro switch and mounting from the suspension lever Unsolder 4 electrical connections Remove 3 mounting bolts.  Remove and Replace	1-0 Ground i	ower out		1/117			
Remove the jacking point bar 2 bolts Remove the cir-clip. Remove the roll pin (method pending) Withdraw the micro switch and mounting from the suspension lever Unsolder 4 electrical connections Remove 3 mounting bolts.  Remove and Replace	Remove the jacking point bar 2 bolts Remove the cir-clip. Remove the roll pin (method pending) Withdraw the micro switch and mounting from the suspension lever Unsolder 4 electrical connections Remove 3 mounting bolts.  Remove and Replace	THE P NOW		Germanata de los				THE U
Remove the jacking point bar 2 bolts Remove the cir-clip. Remove the roll pin (method pending) Withdraw the micro switch and mounting from the suspension lever Unsolder 4 electrical connections Remove 3 mounting bolts.  Remove and Replace 1 x	Remove the jacking point bar 2 bolts Remove the cir-clip. Remove the roll pin (method pending) Withdraw the micro switch and mounting from the suspension lever Unsolder 4 electrical connections Remove 3 mounting bolts.  Remove and Replace   1 x							
THE CONTRACT OF THE REAL PROPERTY OF THE STATE OF THE STA	Remove the cir-clip. Remove the roll pin (method pending) Withdraw the micro switch and mounting from the suspension lever Unsolder 4 electrical connections Remove 3 mounting bolts.  Remove and Replace 1 x		xx	REMOVAL INS	TRUCTIONS			1
notengave the salinal eron wir bulent betauch	nestanginus ram sailat seon att oblant bedauet seral	eplaceable  1 Remove the	e jacking point	rident semenudara	TRUCTIONS	TO THE REAL PROPERTY.		1
notengave the salinal eron wir bulent betauch	nestanginus ram sailat seon att oblant bedauet seral	Remove the Remove the Remove the Withdraw the Remove 3 mo	e jacking point cir-clip. roll pin (method e micro switch electrical connection bolts.	bar 2 bolts d pending) and mounting from	m the suspension		EST.	1
malanguar the sadinal seen set buint being a seen set seen at seen a seen at seen a seen at se	netengine the salinal seen of bullet belong to seen	Remove the Remove the Remove the Remove the Withdraw the Remove 3 mo	e jacking point cir-clip. roll pin (method e micro switch electrical connection bolts.	bar 2 bolts d pending) and mounting from	m the suspension Remove and Rep		EST.	1
	- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	Remove the Remove the Remove the Remove the Withdraw the Remove 3 mo	e jacking point cir-clip. roll pin (method e micro switch electrical connection bolts.	bar 2 bolts d pending) and mounting from	m the suspension Remove and Rep		EST.	1
	18 00 B 19740	Remove the Remove the Remove the Remove the Unithdraw the Remove 3 mo	e jacking point cir-clip. roll pin (method e micro switch electrical connection bolts.	bar 2 bolts d pending) and mounting from	m the suspension  Remove and Rep	olace	EST.	1
	18 00 B 19740	Remove the Remove the Remove the Remove the Unithdraw the Remove 3 mo	e jacking point cir-clip. roll pin (method e micro switch electrical connection bolts.	bar 2 bolts d pending) and mounting from	m the suspension  Remove and Rep	clace	EST.	1
	18 00 B 19740	Remove the Remove the Remove the Remove the Withdraw the Remove 3 mo	e jacking point cir-clip. roll pin (method e micro switch electrical connection bolts.	bar 2 bolts d pending) and mounting from	m the suspension  Remove and Rep	clace	EST.	1
	18 00 B 19740	Remove the Remove the Remove the Remove the Unithdraw the Remove 3 mo	e jacking point cir-clip. roll pin (method e micro switch electrical connection bolts.	bar 2 bolts d pending) and mounting from	m the suspension  Remove and Rep	clace	EST.	1
		Remove the Remove the Remove the Remove the Withdraw the Remove 3 mo	e jacking point cir-clip. roll pin (method e micro switch electrical connection bolts.	bar 2 bolts d pending) and mounting from	m the suspension  Remove and Rep	clace	EST.	ACTUAL

MAINTENA AVRO AIRCRAFT L DISTRIBUTION: STANDARD S. Brown K. Knowlt MANUFACTURER'S PART NO	.TD. + A/C	RECORD  Engineering Div.  TYPE - Arrow 1  A/C - 25201	EIECTRICS  COMPONENT Switch - Te		E1061/2 E1086/2
S. Brown K. Knowlt	+ A/C on EFF.	TYPE - Arrow 1	Switch - Te		ETO86/ 2
S. Brown K. Knowlt	on Eff.		Switch - Te	7	
K. Knowlt		.A/c - 25201			
MANUFACTURER'S PART NO		. A/C - 25201			c stay
			Left & Rig	ht	
MANUFACTURER'S NAME	5.		AVRO PART NO.		wkita
MANUFACTURER'S NAME			MS25040-3		
			100000000000000000000000000000000000000		
AVROCAN SPEC.	E.O. NO.				
ENVELOPE SIZE 2.56" X	1.56" x 1.2"	WEIGHT 0.5 LB.	REF. DWGS, -1100-2 sh	nt 30	
			7-1100-3 sh	nt 5	
LOCATION Mounted of	n the left telesc	copic stay. L & R	ET THEFT IS NOT THE PERSON.	Tales and	
FUNCTION Actuated	when A/C is on th	e ground. Completing	REF. M.D.R.		
supply circuit to	the landing gear	down indicator.			
10.00					
			RELIABIL	ITY	
			OVERHAUL LIFE		HRS.
			WASTAGE		
+-			Q.T.R.		
INSPECTION				MEN X	MINUTES
PERIOD	0	PERATION TO BE PERFORME	.D	EST.	ACTUAL
		OUTSUNTENI SAVONO	72.1	201.	Herenz
James and L				2,3112.11	1231
25 Hrs	Function Check	(See Maintenance Ins.	tructions Report		
	71/Maint 11/5)			1 x 2	
				Par I de l'	
34.				100 5	
164 X 4					
-					

## ACCESSIBILITY

Unobstructed

ISSUE	1		
DATE	3 Oct 57		
COMPILED	WO2 Wentworth		
CHECKED	K.P. Lowe		
	R.F. Reid		

APPLICATION	MATERIAL	SPECIFICATION	FREQUENCY	127.2 A	CCESS	EVA -
The Dionales	MATERIA DE LA CONTRACTION DEL CONTRACTION DE LA	7 2/01/1	4.5375.31.6			
	1927 4 3392	4,1,22	~ DVV X AM			
ETAILS:						TATION'S
				314	3712	- a·
08.3		GROUND SUPPORT	EQUIPMENT	16-32 - 3	II. Canal	140,1907
SPECIAL	TOOLS FOR AIRCRAF	r use	SPECIAL TOO	OLS FOR BENCE	H USE	
NIL		nlioting in its and its	NIL			
GROU	ND TESTING EQUIPMEN	VT.	GROUND HAI	NDLING EQUIPM	MENT	
GROU	1221HG BYOH MEP		S.COND HAI	ZZZZ Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z		
A-C G	Ground Power Uni	t	Maintenance	Platform 4	G/1596	
country of sales		- ABBUSIONS OF				
NTERCHANGEABL	E XX	REMOVAL INS	TRUCTIONS		MEN X I	MINUTES
REPLACEABLE		Kemeraem			EST.	ACTUAL
7 Unc	olden / electric	ool commentians				
1 Uns 2 Rem	solder 4 electric nove 3 mounting b	cal connections.	Remove and Replace		1 x 45	
1 Uns 2 Rem	nove 3 mounting h	polts.			1 x 45	
1 Uns 2 Rem	solder 4 electric	polts.	Remove and Replace.	e	1 x 45	
1 Uns 2 Rem	nove 3 mounting h	polts.	Remove and Replace.	e	1 x 45	
1 Uns 2 Rem	nove 3 mounting h	polts.	Remove and Replace.	e	1 x 45	
1 Uns 2 Rem	nove 3 mounting h	polts.	Remove and Replace.	e	1 x 45	
1 Uns 2 Rem	nove 3 mounting h	polts.	Remove and Replace.	e		A TAKE
1 Uns 2 Rem	nove 3 mounting h	polts.	Remove and Replace.	e	1 x 45	TANK STANK

CTUA.

M A I N T E		DATA RECORD : Engineering Div.	SYSTEM ELECTRICS		No. 1151/1 1152/1
S. Brown K. Knowl	ARD +	A/C TYPE -Arrow 1 EFF. A/C - 25201	Switch - Door up	L&R	
MANUFACTURER'S NAI MANUFACTURER'S NAI AVROCAN SPEC.	RT NO.	O. NO.	AVRO PART NO. MS25040	)=3	UATED
LOCATION Mounted	in the L & I	1.2" WEIGHT 0.5 LB. R landing gear well.		-2 sht 3: -3 sht 5	
the up circuit landing gear d	to the land:	he door up lock, completes ing gear position indicator, ng.c.	REF. M.D.R.		
1986	MANDE CHESTON		RELIABIL	ITY	*
			OVERHAUL LIFE 1500 WASTAGE Q.T.R.	0	HRS.
INSPECTION		OPERATION TO BE PERFORM	ED .	MEN X I	1
PERIOD				EST.	ACTUAL
25 Hrs.	Function Ci 71/MAINT 1	heck.(See Maintenance Instru	ctions Report	1 x 2	
		ACCESSIBILITY			
	Unobstruct	ved			

ISSUE

DATE

1 8 Oct. 57 W02 Wentworth

CHECKED K.P. Lowe APPROVED R.F. Reid

MATERIAL	SPECIFICATION	FREQUENCY		CCESS	
THE THE PERSON NAMED IN	o I wo	WALL BUTT OVA	CELAG	MATE NOV	TUUINTEIG
ar mile 4 Taylor				S. Brown	
	20L	C - Secretary	riest	LupuN . A	
					TATURAL
					28777
		.OM .O.		,2108	HADOR'S
ATT COLD	GROUND SUPPORT	EQUIPMENT	Mag. I x th	I was	4032371
OOLS FOR AIRCRAFT	USE	SPECIAL 7	TOOLS FOR BENC	H USE	
		NTT			
		MIT			
	(material r.				
		Linguis and the second	STEER OF THE	The state of	ith uil
TESTING EQUIPMENT		GROUND I	HANDLING EQUIPM	ENT	
Power Unit		Maintena	ance Platform	4G/1596	6
	production in the	en parte.		T 222222	
XXX	REMOVAL IN	STRUCTIONS			ACTUAL
I and a second	TOUR TOUT ALTON	to the same of the same		2011	NOTONE
		11/4.		-	THE CN
mounting boros.		Remove and Repla	ce	1 x 45	
		A CCESSISILIT			
	TESTING EQUIPMENT  Power Unit	TESTING EQUIPMENT  Power Unit  REMOVAL IN  4 electrical connections.  mounting bolts.	CROUND SUPPORT EQUIPMENT  COOLS FOR AIRCRAFT USE  NIL  Power Unit  REMOVAL INSTRUCTIONS  4 electrical connections.  mounting bolts.  Remove and Repla	GROUND SUPPORT EQUIPMENT  SPECIAL TOOLS FOR BENCE  NIL  TESTING EQUIPMENT  GROUND HANDLING EQUIPMENT  Maintenance Platform  SOCK  REMOVAL INSTRUCTIONS  4 electrical connections, mounting bolts.  Remove and Replace	GROUND SUPPORT EQUIPMENT  FOOLS FOR AIRCRAFT USE  SPECIAL TOOLS FOR BENCH USE  NIL  OTESTING EQUIPMENT  GROUND HANDLING EQUIPMENT  Maintenance Platform 4G/1590  MEN X 1  EST.  4 electrical connections.  mounting bolts.  Remove and Replace  1 x 45

AVRO AIRCRAFT		ATA RECORD  Engineering Div.	SYSTEM ELECTRICS	REF.	1153/
S. Brown K. Knowl		A/C TYPE - Arrow 1 EFF. A/C - 25201	COMPONENT Switch - Sci	ssor L	eft
MANUFACTURER'S PART	NO.		AVRO PART NO.	- 3.1	TATEO
MANUFACTURER'S NAME	E.O.	NO.	MS25040-3		
			REF. DWGS.	_	
envelope size 2.56"	NAT LIBOT J	Lending gear.	7-1100-2 sht 7-1100-3 sht	30	
When act	nated closes	s a switch in the landing			
gear up	release sole	enoid circuit.	REF. M.D.R.		
	DE DISTRIBUTE DE		RELIABILIT	ГҮ	
			OVERHAUL LIFE 1500 WASTAGE Q.T.R.		HRS.
INSPECTION				MEN × N	ANUTE
PERIOD		OPERATION TO BE PERFORME	D	EST.	ACTU
ATTENDED		THUI TURITRI JAYOFEA			1991
			Lapiticals & rabiosa		
NA X T					
EL X I	eualiges.	ACCESSIBILITY			
CA X I	enaliges:	ARREST AND THE STREET			
CA X I	Unobstru	ACCESSIBILITY			
EA X I		ACCESSIBILITY			
27		ACCESSIBILITY			
issue 1.	Unobstru	ACCESSIBILITY			
ISSUE 1 DATE 3 Oct 5'	Unobstru	ACCESSIBILITY			
issue 1.	Unobstru 7 tworth	ACCESSIBILITY			

PPLICATION		LUBRICATI	ON NIT		THIS	
	MATERIAL	SPECIFICATION	FREQUENCY		CCESS	YA
Jac spone		1000	TE STATE OF			
ETAILS:	- C-DOSTORNA				le esser	
		GROUND SUPPORT	EQUIPMENT	1.56" x 1.56"	1.0 200	Inc. Links
SPECIAL	TOOLS FOR AIRCRAFT	r use	SPECIAL T	OOLS FOR BENC	CH USE	
NIL	man and an	prilima di	NIL			
GROUN	ND TESTING EQUIPMEN	IT	GROUND H	ANDLING EQUIP	MENT	
A-C G	round Power Uni	t	NIL			
NTERCHANGEABLE	E XX 3	DENOVAL INC	TRUCTIONS		MEN X	MINUTES
EPLACEABLE	Anna sauran	REMOVALINS	TRUCTIONS	transi	EST.	ACTUAL
eplaceable	ove 3 mounting lolder 6 electric	Della structural	Remove and Re	place	l x 45	ACTUAL
PLACEABLE  1 Rem 2 Uns	ove 3 mounting lolder 6 electric	oolts. cal connections.	00 Casts, (864 at 11/5)	place	.8	ACTUAL
PLACEABLE  1 Rem 2 Uns	ove 3 mounting loolder 6 electric	oolts. cal connections.	Remove and Re	place	.8	ACTUAL
PLACEABLE  1 Rem 2 Uns	ove 3 mounting 1 older 6 electric	oolts. cal connections.	Remove and Re		.8	ACTUAL

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MAINTENA	NCE DA	TA RECORD	SYSTEM	REF.	NO.
AVRO AIRCRAFT LT		Engineering Div.	ELECTRICS	11-E	1153/4
DISTRIBUTION: STANDARD + S. Brown K. Knowlton		COMPONENT 11-E1154/ Switch - Landing gear down Left			
MANUFACTURER'S PART NO.	In 1, 1, -0	tra to da l	AVRO PART NO.	18	.IIATEG
MANUFACTURER'S NAME	Comment	7 120090	MS25040-3		
AVROCAN SPEC.	E.O. NO	o.			
		QII WEIGHT 0.5 LB.	7-1100-2 sht 7-1100-3 sht	30 5	
LOCATION Mounted on		111			
	losed when to cked down po	the left landing gear osition.	REF. M.D.R.		
			RELIABIL	ITY	
bretter moto			OVERHAUL LIFE 1 WASTAGE Q.T.R.	500	HRS.
INSPECTION		OPERATION TO BE PERFORMED		MEN X	MINUTES
PERIOD				EST.	ACTUAL
25 Hrs.	Function C	neck. (See Maintenance Ins	structions Report	1.814	19.79
۵٫ ۱۱۱ ۵۰	71/Maint 1		or acotomo mopor o	1 x 2	

PERIO	OD OPERATION TO BE PERFORMED	EST.	ACTUAL
25 Hr:	Function Check. (See Maintenance Instructions Report 71/Maint 11/5)	1 x 2	1939
	S monthing tolls,		
-25			
	ACCESSIBILITY		
	Unobstructed		
ISSUE	1		
DATE	4 Oct 57		
COMPILED	WO2 Wentworth		1
CHECKED	K.P. Lowe		
APPROVED	R.F. Reid		

		LUBRICATI	ON NIL	RICHARCE	
APPLICATION	MATERIAL	SPECIFICATION	FREQUENCY	ACCESS	QUIA
Maria Maria	Tall 1	1 0000	L - 2007 5 A	F CONTRACTO	AUTUANT HO
1000 3000		Market	- Sha was	Dedfacil d	
	Marie State	At No. of Sec.			
DETAILS:					
75.4		GROUND SUPPORT			20 000 11/H
SPECIAL T	OOLS FOR AIRCRAF	T USE	SPECIAL '	TOOLS FOR BENCH USE	
NIL		5095 1 23			
GROUNI	TESTING EQUIPME	NT	GROUND	HANDLING EQUIPMENT	
A-C Ground	Power Unit	100	Maintena	ance Platform 4G/1	-596
	aleman I -	The second of the	Hierarcani	100	aroughtr -
INTERCHANGEABLE	xx	REMOVAL INS	TRUCTIONS	MEN	× MINUTES
REPLACEABLE				EST	. ACTUAI
1 Unsolder 2 Remove 3	4 electrical mounting bolt	S.	Remove and Repla	ace lx	45
			T1.7(8)(8) 8 3 3 4		
			TIJINISEE 10 A	Jeriono	
				Janens	
				Jeriono	S IKS

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MAINTE		DATA RECORD	SYSTEM ELECTRICS	REF. P	10. L500/7
AVRO AIRCRAF		Engineering Div.	COMPONENT	state so	
DISTRIBUTION: STANDA	ARD +	A/C TYPE - Arrow 1			
S. Brown K. Knowlton		EFF. A/C - 25201	Switch - Speed Br	ake	
MANUFACTURER'S PAR	T NO.		AVRO PART NO.		KTAS
MANUFACTURER'S NAM	E		CS-S-15	53	
AVROCAN SPEC.	E	.o. no.			
ENVELOPE SIZE		7-1100-7-1100-7-1100-	2 sht 5 3 sht 11		
LOCATION Mounte	d in the RH	power lever handle.			
FUNCTION To cont	rol the spe	ed brake valve.	REF. M.D.R.		
Folicition 10 Cont	ioi die spe	ed brake varve.	1111		
			RELIABIL	ITY	
			OVERHAUL LIFE 150 WASTAGE Q.T.R.	00	HRS.
INSPECTION		OPERATION TO BE PERFOR	men × minu		
PERIOD		OPERATION TO BE PERFOR	MED	EST.	ACTUA
	71/MAIN	1 11/4		1 x 5	
	Unobstr	ucted			
ISSUE	7				
	1 V. 57				
DATE 15 No	l v. 57				
DATE 15 No	v. 57 Ventworth				

APPROVED

R.F. Reid

PPLICATION	MATERIAL	SPECIFICATION	FREQUENCY	AC	CESS	V.A.
220112011	100000000000000000000000000000000000000	1	- 57477 D.A			The section 2
	d feeling - derived		- MARKE			
DETAILS:	- CONTRACTOR					
			.08.0.3			DAYSHAD MADRIEVA
<del></del>		GROUND SUPPORT	EQUIPMENT			Marchaelle
SPECIAL	TOOLS FOR AIRCRAFT	USE	SPECIAL T	OOLS FOR BENCH	USE	
	NIL		N	IL		
GROUN	D TESTING EQUIPMENT		GROUND H	ANDLING EQUIPM	ENT	
-44	or say wante					
	r and Generator	A-C	Cockpit Access	Stand		
INTERCUANCE A DI E		(23410278,144 114 177			MEN Y	MINUTES
REPLACEABLE	x	REMOVAL INS	TRUCTIONS		EST.	ACTUAL
			T HÖLERBORA			
	i					
						2743 2743

MAINTENANCE DA	TA RECORD	SYSTEM ELECTRICS	REF. NO.
AVRO AIRCRAFT LTD.	Engineering Div.	ELECTRICS	11-E1530/1
DISTRIBUTION: STANDARD +	A/C TYPE - Arrow 1.	COMPONENT	
S.Brown K.Knowlton.	EFF. A/C - 25201	Switch Drag Chu Lever Limit.	te
MANUFACTURER'S PART NO.		AVRO PART NO.	B. D. P. T. C.
MANUFACTURER'S NAME		CS - S - 152	
AVROCAN SPEC. E.O. NO	).		
ENVELOPE SIZE .937" X 180" x .35	All WENGER 30 IB	REF. DWGS.	
ENVELOPE SIZE . 7)/ A 180 A . ))	weight . jo	7-1100-2 Sht 5	
LOCATION Mounted in the Drag Chrassembly.	ute control lever	7-1100-3 Sht 11	
runction when actuated to the completes a circuit to	losed position, the drag chute solenoid.	REF. M.D.R.	
THEMEUDI CHEADEAN END		RELIABILIT	Y
		overhaul life 1500 wastage	HRS.
odeplit Access Shape	00	Q.T.R.	
THOREGIVEN			

INSPECT	OPERATION TO BE PERFORMED	MEN × MINUTES	
PERIO	D	EST.	ACTUAL
ATTON	SEMBITORIAL SHEEPERS AVOIDED	選加を行う	1718
Primar	71/Maint 11/4)	1 X 2	
	empliamenta impliatoria E avocati milas galimos E avocati		
	X. L. Smillers has second.		
	ACCESSIBILITY		
	Remove the drag chute control lever assembly.		
SUE	1		
	November 4/57		
	WO2.Wentworth.		
	K.P.Lowe		
PPROVED	R.F.Reid.		

		LUBRICA	TION Nil	HARCE	BTHIA	
APPLICATION	MATERIAL	SPECIFICATION	FREQUENCY	013 1	ACCESS	VA.
- 10	Seed mithi Mint west		10 S - 25 958	2 CAV		18.8
DETAILS:	AR 7849 GH			,GH T9	CAST FREEDO	CHURACIA
			68.00		.599.8	RATIOR
		GROUND SUPPOR			EL IVE	190JSV
SPECIAL	TOOLS FOR AIRCRAFT	USE	SPECIAL T	OOLS FOR BENC	CH USE	POTTAN
	Nil	ib longing	Nil			
GROU	IND TESTING EQUIPMENT	r	GROUND H	ANDLING EQUIP	MENT	
Line	A-C Ground Power	Unit	Cockpi	t Access St	and	
DESIGN A WAY		CHARLES SO	OF MOST ARREST		80(1)	21/1/201
INTERCHANGEABL	E X				MENTY	MINUTES
REPLACEABLE		REMOVAL	NSTRUCTIONS		EST.	1
El. 1	ectrics . Remove 2 electr . Remove 2 mounti	rical connectio	stark (den mindender 1176)	Function VI/Naint	EST.	1
El. 1	. Remove 2 electr	rical connectio	stark (den mindender 1176)		EST.	ACTU
El. 1	. Remove 2 electr	rical connectio	ns		EST.	ACTUA
El. 1	. Remove 2 electr	ical connectiong bolts	Remove and replace	е	EST.	ACTUA
El. 1	. Remove 2 electr	ical connectiong bolts	ns Remove and replace	е	EST.	ACTU

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