

QCX
Avro
CF105
71 Maint
11-2

ARROW I ANALYZED
MAINTENANCE INSTRUCTIONS
LIGHTING ELECTRICS
71/MAINT 11/2

NRC - CISTI
J. H. PARKIN
BRANCH
JUN 8 1995
ANNEXE
J. H. PARKIN
CNRC - ICIST



SECURITY CLASSIFICATION=CONFIDENTIAL

ANALYZED

ARROW I
MAINTENANCE INSTRUCTIONS

Classification cancelled / Changed to UNCLASS
By authority of AVRS
Date 30 Sept 96
Signature P. Kelly
Unit / Rank / Appointment AVRS

LIGHTING - ELECTRICS

71/MAINT 11/2

7 October 1957

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ENGINEERING DIVISION, AVRO AIRCRAFT LIMITED, MALTON, ONTARIO



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M.D.R.	11-E1155	Light - Wing Tip - Red	



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1. DESCRIPTION

1.1 General

1.1.1 The internal lighting system consists of lighting circuits for the illumination of the front and rear cockpit instruments, switched and controls. The external lighting system consists of a navigation light circuit and a landing and taxi lights circuit. (Refer to Avro drawings 7-1100-3 sheets 12 and 13)

1.2 Front Cockpit Lighting

1.2.1 The front cockpit lighting is comprised of the following five circuits:

- (a) Main instrument panel instrument lights (red)
- (b) Main instrument panel and console edge lights (red)
- (c) Console flood lights (red)
- (d) Console high altitude flood lights (amber)
- (e) Emergency flood light (clear)

1.2.2 The instrument lights, edge lights and console flood lights circuit, have individual dimming control through variable auto-transformers. The controls are marked MAIN PANEL, CONSOLE PANELS and CONSOLE FLOOD. The transformers and their controls are located on panel E17 in the RH console and they derive a power supply from the A phase of the primary A-C bus bars, via circuit breakers on the main circuit breaker panel E1.

1.2.3 A dimming control is not provided for the console high altitude flood lights. The control switch for the lights is marked HIGH ALT LIGHTING and is located on panel E17. The circuit derives a power supply from the main D-C bus, via a circuit breaker located on the main circuit breaker panel E1.

1.2.4 The emergency flood light, located above the RH console, is provided with a rheostat dimming control incorporated, within the switch housing, which is in an integral part of the case. The circuit is supplied from the emergency D-C bus, via a circuit breaker on the main circuit breaker panel E1.



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1.2.4 The emergency flood light, located above the RH console, is provided with a rheostat dimming control incorporated, within the switch housing, which is in an integral part of the case. The circuit is supplied from the emergency D-C bus, via a circuit breaker on the main circuit breaker panel E1.

1.3 Rear Cockpit Lighting

1.3.1 The rear cockpit lighting is comprised of the following four circuits:

- (a) Instrument edge lights (red)
- (b) Console flood lights (red)
- (c) Console high altitude flood lights (amber)
- (d) Emergency flood light (clear)

1.3.2 The instrument lights, edge lights and console lights circuits have individual dimming control through variable auto transformers.

A common dimming control is provided for the instrument lights and the instrument edge lights, a separate dimming control is provided for the console flood lights. The controls are marked PANEL LIGHTS and CONSOLE FLOOD. The transformers and their controls are located on panel E26 in the RH console and the derive a supply from the A phase of the primary A-C bus bars via circuit breakers on the main circuit breaker panel E1.

1.3.3 A dimming control is not provided for the console high altitude flood lights. The control switch for the lights is marked HIGH ALT LIGHTING and is located on panel E26. The circuit derives a power supply from the main D-C bus via a circuit breaker on the main circuit breaker panel E1.

1.3.4 The emergency flood light, located above the RH console, is provided with a rheostat dimming control incorporated within the switch housing which is an integral part of the case. The circuit is supplied from the emergency D-C bus via a circuit breaker on the main circuit breaker panel E1.

1.4 Navigation Lights

1.4.1 The navigation lights circuit comprises a red (LH) and a green (RH) wing tip light, a red (lower) and a white (upper) fin tip light, a flasher unit and a selector switch marked NAV LIGHTS, FLASH-OFF-STEADY. When the selector switch is set to the STEADY position, a power supply circuit derived from the main D-C bus is completed through the selector switch contacts to the four navigation lights.



1.4.1 Navigation Lights (continued)

When the switch is selected to FLASH, the flasher unit, located on the RH side of the nose wheel well adjacent to panel E3, is operative. The flasher unit will illuminate the wing tip lights and fin tip white light alternately with the fin tip red light. If the flasher unit fails, it will automatically revert the wing lights and white fin light to a steady indication.

1.5 Landing and Taxi Lights

1.5.1 Two lights are fitted on the nose landing gear leg, one on the steering portion of the leg for taxi-ing, and the other on the fixed portion of the leg for landing. The selection and operation of the lights is controlled by a double-pole, double-throw switch marked TAXI-OFF-LANDING, located on the LH console in the front cockpit.

1.5.2 Two single-pole, single-throw relays control the supply circuit to the landing light and taxi light respectively. Selecting the control switch to the LANDING position will energize both relays. Selecting the switch to the TAXI position will energize only the taxi light control relay. The circuits derive their power supply from the D-C shedding bus. Shut-off control is also provided by the U/C door fully up relay to ensure that the lights are off when the nose U/C doors are closed.

2. GROUND HANDLING EQUIPMENT

2.1 A-C ground power unit.

3. PREPARATION FOR TESTS

3.1 Connect the A-C ground power unit to the aircraft.

3.2 Select the MASTER ELECTRICS switch to the ON position.

4. INTERNAL LIGHTS-FUNCTION TESTS

4.1 Front Cockpit Lighting

4.1.1 Main Instrument Panel

4.1.1.1 Ensure that the front cockpit instrument and edge lights circuit breaker, located on panel E1, is closed.

4.1.1.2 Ensure that the main panel instrument light fuse, located on panel E17, is serviceable.



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4.1.1.3 Select the front cockpit instrument light controller, located on panel E17, from OFF to BRIGHT. Observe the brilliancy of the following lights:

- (a) Main instrument panel instrument lights (27)
- (b) Main instrument panel edge lights (2)
- (c) Standby compass edge light (1)
- (d) Landing gear selector panel lights (4)
- (e) Oxygen panel edge light (1)

4.1.1.4 Select the main instrument lights controller to the OFF position.

4.1.2 Console Panel Edge Lights

4.1.2.1 Ensure that the front cockpit instrument and edge lights circuit breaker, located on panel E1, is closed.

4.1.2.2 Ensure that the front cockpit console edge lights fuse, located on panel E17, is serviceable.

4.1.2.3 Select the front console edge lights controller from OFF to BRIGHT. Observe the brilliancy of the following lights:

- (a) Front cockpit light switch panel E17 (4 edge lights)
- (b) Air Conditioning panel E18 (3 edge lights)
- (c) Power and Starting Panel E16 (2 edge lights)
- (d) Oxygen panel E22 (3 edge lights)
- (e) Master warning panel E15 (2 edge lights)
- (f) Canopy and Light. Panel E10 (2 edge lights)
- (g) Fire and Fuel Panel E14 (5 edge lights)

4.1.2.4 Select the front cockpit console edge lights controller to the OFF position.

4.1.3 Console Flood Lights

4.1.3.1 Ensure that the front cockpit console flood light circuit breaker, located on panel E1, is closed.



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- 4.1.3.2 Ensure that the front cockpit soncole flood light fuse, located on panel E17, is serviceable.
- 4.1.3.3 Select the front cockpit console flood light controller from OFF to BRIGHT position. Observe the brilliancy of the 3 left and 3 right front cockpit console flood lights.
- 4.1.3.4 Select the front cockpit console flood light controller to the OFF position.

4.1.4 High Altitude Flood Lights

- 4.1.4.1 Ensure that the high altitude flood light circuit breaker, located on panel E1, is closed.
- 4.1.4.2 Select the front cockpit high altitude switch to the ON position. The two high altitude lights should illuminate.
- 4.1.4.3 Select the front cockpit high altitude switch to the OFF position.

4.1.5 Emergency Flood Light

- 4.1.5.1 Ensure that the front cockpit emergency light circuit breaker, located on panel E1, is closed.
- 4.1.5.2 Select the switch for the front cockpit emergency flood light to ON and check that the front cockpit emergency flood light illuminates.
- 4.1.5.3 Select the front cockpit emergency flood light switch to the OFF position.

4.2 Rear Cockpit Lighting

4.2.1 Rear Cockpit Console Flood Lights

- 4.2.1.1 Ensure that the rear cockpit console flood light circuit breaker, located on panel E1, is closed.
- 4.2.1.2 Ensure that the rear cockpit console flood light fuse, located on panel E26, is serviceable.
- 4.2.1.3 Select the rear cockpit console flood light controller from the OFF to the BRIGHT position. Observe the brilliancy of the 3 left and 3 right cockpit console flood lights.



- 4.2.1.4 Select the rear cockpit console flood light controller to the OFF position.

4.2.2 Main Instrument Panel and Console Edge Lights

- 4.2.2.1 Ensure that the rear cockpit edge light circuit breaker, located on panel E1, is closed.
- 4.2.2.2 Ensure that the edge light fuse, located on panel E26 is serviceable.
- 4.2.2.3 Select the rear M.I.P. and Console edge light controller from the OFF to the BRIGHT position. Observe the brilliancy of the rear cockpit canopy panel E19 edge light (1) and the rear cockpit lighting panel E26 edge lights (2).
- 4.2.2.4 Select the rear M.I.P. and console edge light controller to the OFF position.

4.2.3 High Altitude Flood Light

- 4.2.3.1 Ensure that the high altitude flood light circuit breaker, located on panel E1, is closed.
- 4.2.3.2 Select the rear cockpit high altitude switch to the ON position. The two high altitude lights should illuminate.
- 4.2.3.3 Select the rear cockpit high altitude switch to the OFF position.

NOTE

On the first aircraft, no high altitude flood lights will be fitted in the rear cockpit, and only 2 red flood lights will be fitted on the left side of the front cockpit.

4.2.4 Cockpit Emergency Flood Light

- 4.2.4.1 Ensure that the emergency cockpit lights circuit breaker, located on panel E1, is closed.
- 4.2.4.2 Select the rear cockpit emergency flood light switch to the ON position and observe if the cockpit emergency flood light illuminates.
- 4.2.4.3 Select the rear cockpit emergency flood light switch to the OFF position.



5. EXTERNAL LIGHTS-FUNCTION TESTS

5.1 Navigation Lights

- 5.1.1 Ensure that the navigation lights circuit breaker, located on panel E1, is in the closed position.
- 5.1.2 Select the navigation lights switch located in the front cockpit, to the STEADY position. The wing tip and fin tip lights should be illuminated.
- 5.1.3 Select the navigation light switch to the FLASH position. The wing tip and white fin tip lights should illuminate alternately with the red fin tip light.
- 5.1.4 Select the navigation light switch to the OFF position. The wing and fin tip lights should not be illuminated.

5.2 Landing and Taxi Lights

- 5.2.1 Ensure that the taxi and landing light circuit breaker, located on panel E1, is in the closed position.
- 5.2.2 Select the landing and taxi light switch, located in the front cockpit, to the LAND position. The landing and taxi lights should illuminate.
- 5.2.3 To ensure that the landing and taxi light will go out when the undercarriage doors are closed, actuate the nose undercarriage door uplock micro-switch, left main undercarriage door uplock micro-switch and the right main undercarriage door uplock micro-switch.
- 5.2.4 Select the landing and taxi light switch to the TAXI position. The taxi light only should be illuminated.
- 5.2.5 Select the landing and taxi light switch to the OFF position. The landing and taxi lights should not be illuminated.

6. COMPLETION OF TEST

- 6.1 Select the MASTER ELECTRICS switch to the OFF position.
- 6.2 Disconnect the A-C Ground Power Unit from the aircraft.



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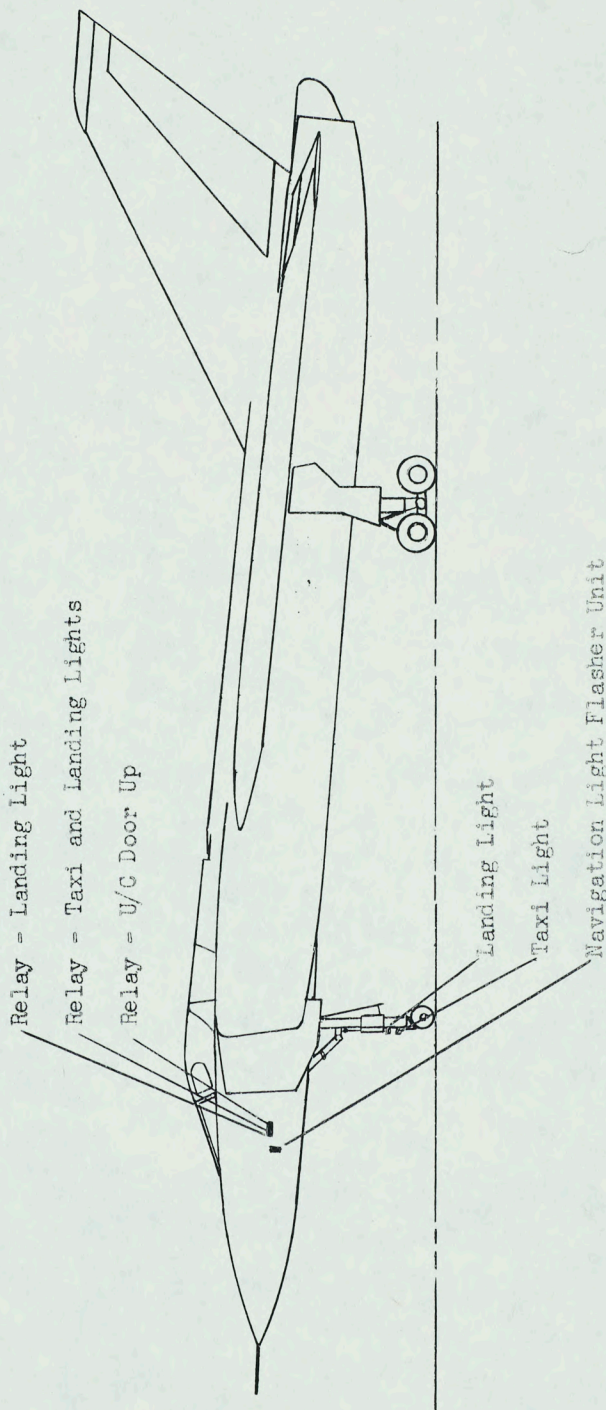


FIGURE I
COMPONENT LOCATION



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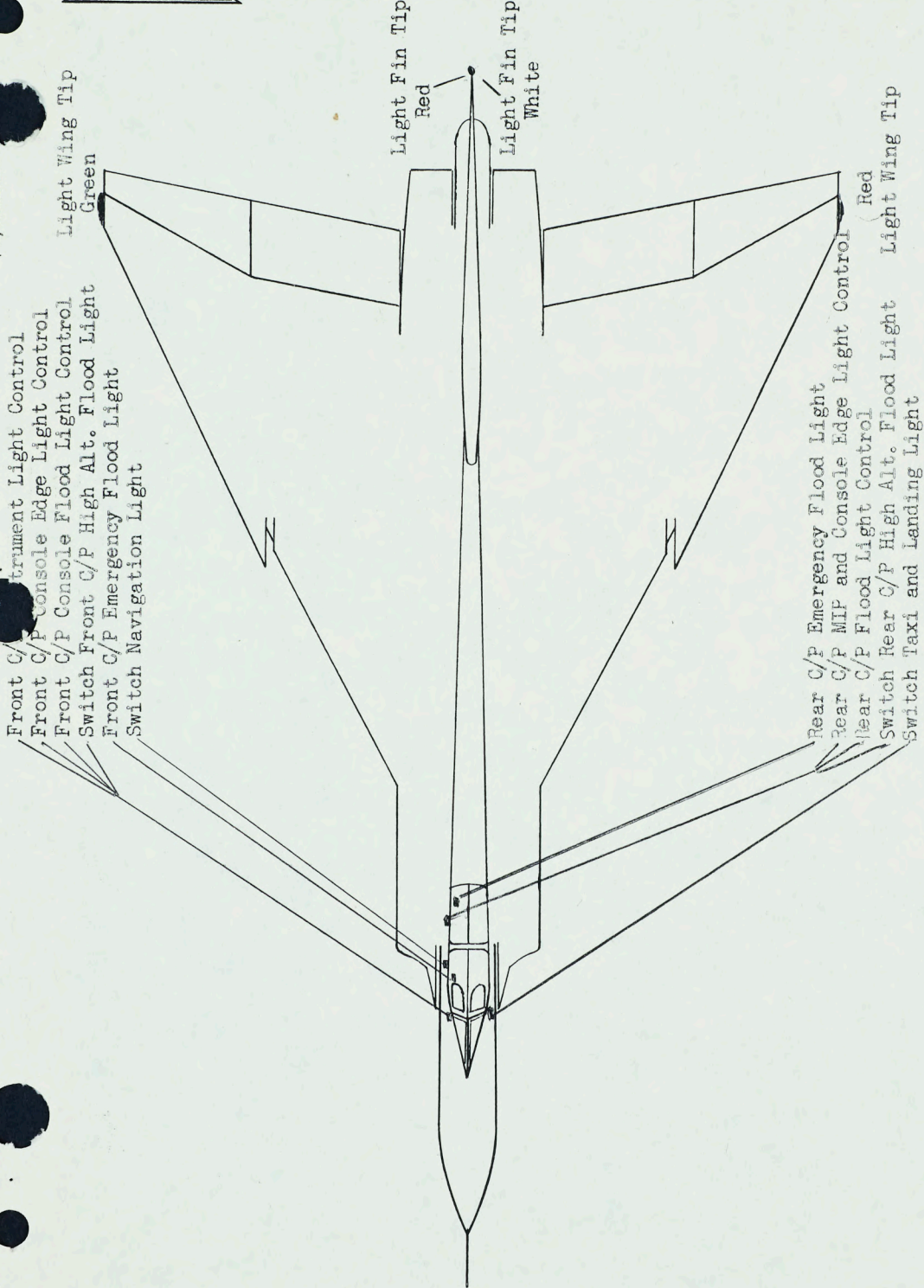


FIGURE 2

COMPONENT LOCATION

MAINTENANCE DATA RECORD				SYSTEM		REF. NO.	
AVRO AIRCRAFT LTD. Engineering Div.				ELECTRICS		11-E6/7	
DISTRIBUTION: STANDARD + S. Brown K. Knowlton		A/C TYPE - Arrow 1 EFF. A/C - 25201		COMPONENT Relay - U/C door up.			
MANUFACTURER'S PART NO.				AVRO PART NO.			
MANUFACTURER'S NAME				MS25024-1			
AVROCAN SPEC. E.O. NO.				REF. DWGS.			
ENVELOPE SIZE 2.625" x 2.687" x 3.3 WEIGHT 0.8 LB.				7-1100-2 sht 10 7-1100-3 sht 13			
LOCATION Mounted on panel E6 located in the nose wheel well.				REF. M.D.R.			
FUNCTION Actuated open by the nose U/C door up micro switch, to prevent the illumination of the landing and taxi lights while in flight.				RELIABILITY			
				OVERHAUL LIFE HRS.			
				WASTAGE			
				Q.T.R.			
INSPECTION PERIOD	OPERATION TO BE PERFORMED			MEN X MINUTES			
				EST.	ACTUAL		
Primary 25 hrs.	Function check (See Maintenance Instructions Report 71/Maint 11/2)			1	x	2	
	Check security of electrical connections Check security of mounting			1	x	5	
ACCESSIBILITY							
Remove panel E6.							
ISSUE	1						
DATE	18 Sept 57						
COMPILED	W02 Wentworth						
CHECKED	K.P. Lowe						
APPROVED	R.F. Reid						

LUBRICATION Nil

APPLICATION	MATERIAL	SPECIFICATION	FREQUENCY	ACCESS

DETAILS:

GROUND SUPPORT EQUIPMENT

SPECIAL TOOLS FOR AIRCRAFT USE	SPECIAL TOOLS FOR BENCH USE
Nil	Nil
GROUND TESTING EQUIPMENT	GROUND HANDLING EQUIPMENT
A-C Ground Power Unit	Maintenance Platform 5G/1496

INTERCHANGEABLE REPLACEABLE	XX	REMOVAL INSTRUCTIONS	MEN × MINUTES	
			EST.	ACTUAL
		1 Disconnect 12 electrical connections. 2 Remove 4 mounting bolts. Remove and Replace	1 x 20	

MAINTENANCE DATA RECORD				SYSTEM ELECTRICS		REF. NO. 11-E6/10	
AVRO AIRCRAFT LTD.		Engineering Div.					
DISTRIBUTION: STANDARD + S. Brown K. Knowlton		A/C TYPE - Arrow <u>1</u> EFF. A/C - 25201		COMPONENT Relay - Taxi and Landing			
MANUFACTURER'S PART NO.				AVRO PART NO. CS - R -122			
MANUFACTURER'S NAME							
AVROCAN SPEC.		E.O. NO.					
ENVELOPE SIZE 2.125" x 2.6" x 2.34"		WEIGHT 0.44 LB.		REF. DWGS. 7-1100-2 sht 10 7-1100-3 sht 13			
LOCATION Mounted on panel E6				REF. M.D.R.			
FUNCTION When energized by selecting the landing and taxi light switch to the land or taxi position completes the electrical circuit to the taxi light.				RELIABILITY OVERHAUL LIFE 1500 HRS. WASTAGE Q.T.R.			
INSPECTION PERIOD	OPERATION TO BE PERFORMED			MEN X MINUTES			
				EST.	ACTUAL		
Primary	Function check. (See Maintenance Instructions Report 71/MAINT 11/2			1	2		
25 Hrs.	Check security of electrical connection. Check security of mounting			1	2		
ACCESSIBILITY							
Mounted on panel E6							
ISSUE	1						
DATE	27 Aug 57						
COMPILED	W02 Wentworth						
CHECKED	J. Ferguson						
APPROVED	R.F. Reid						

MAINTENANCE DATA RECORD				SYSTEM	REF. NO.
AVRO AIRCRAFT LTD.		Engineering Div.		ELECTRICS	11-E6/13
DISTRIBUTION: STANDARD + S. Brown		A/C TYPE - ARROW 1 EFF. A/C - 25201		COMPONENT Relay - Landing Light	
MANUFACTURER'S PART NO.				AVRO PART NO.	
MANUFACTURER'S NAME				CS-R-122	
AVROCAN SPEC.		E.O. NO.		REF. DWGS.	
ENVELOPE SIZE 2.125" x 2.6" x 2.34"		WEIGHT 0.44 LB.		7-1100-2 Sht. 10 7-1100-3 Sht. 13	
LOCATION		Mounted on Panel E6.		REF. M.D.R.	
FUNCTION				RELIABILITY	
When energized by selecting the landing and taxi light switch to the land position, completes the electrical circuit to the landing light.				OVERHAUL LIFE 1500 HRS. WASTAGE Q.T.R.	
INSPECTION PERIOD	OPERATION TO BE PERFORMED			MEN X MINUTES	
				EST.	ACTUAL
Primary	Function check, (See Maintenance Instructions Report 71/Maint 11/2).				
ACCESSIBILITY					
Unobstructed					
ISSUE	1				
DATE	August 27/57				
COMPILED	W02 Wentworth				
CHECKED	J. Ferguson				
APPROVED	R.F. Reid				

LUBRICATION NIL

APPLICATION	MATERIAL	SPECIFICATION	FREQUENCY	ACCESS

DETAILS:

GROUND SUPPORT EQUIPMENT

SPECIAL TOOLS FOR AIRCRAFT USE	SPECIAL TOOLS FOR BENCH USE
NIL	NIL

GROUND TESTING EQUIPMENT	GROUND HANDLING EQUIPMENT
A/C Ground Power Unit	Cockpit Access Stand Maintenance Platform 4G/1596

INTERCHANGEABLE	X	REMOVAL INSTRUCTIONS	MEN × MINUTES	
			EST.	ACTUAL
REPLACEABLE				

1. Remove 4 mounting bolts.
2. Disconnect 4 electrical connections.

Remove and Replace

1 x 10

MAINTENANCE DATA RECORD				SYSTEM ELECTRICS	REF. NO. 11-E10/3
AVRO AIRCRAFT LTD.		Engineering Div.			
DISTRIBUTION: STANDARD + S. Brown K. Knowlton		A/C TYPE - Arrow 1 EFF. A/C - 25201		COMPONENT Switch - Taxi and Landing light	
MANUFACTURER'S PART NO. 8820K10		MANUFACTURER'S NAME Cuttler Hammer		AVRO PART NO.	
AVROCAN SPEC. E.O. NO.		ENVELOPE SIZE 1 5/16" x 1 1/8" x 3/4" WEIGHT 0.10 LB.		REF. DWGS. 7-1100-2 sht 4 7-1100-3 sht 13	
LOCATION Mounted on panel E10 located in front cockpit.		FUNCTION Provide switching for the landing and taxi lights		REF. M.D.R. 11-E10	
				RELIABILITY	
				OVERHAUL LIFE HRS. WASTAGE Q.T.R.	
INSPECTION PERIOD	OPERATION TO BE PERFORMED			MEN X MINUTES	
				EST.	ACTUAL
Primary	Function Check (See Maintenance Instructions Report 71/Maint 11/2)			2	2
25 hrs.	Check security of electrical connections. Check security of mounting.			1	5
ACCESSIBILITY					
Unobstructed.					
ISSUE	1				
DATE	18 Sept 57				
COMPILED	W02 Wentworth				
CHECKED	K.P. Lowe				
APPROVED	R.F. Reid				

LUBRICATION Nil

APPLICATION	MATERIAL	SPECIFICATION	FREQUENCY	ACCESS

DETAILS:

GROUND SUPPORT EQUIPMENT

SPECIAL TOOLS FOR AIRCRAFT USE	SPECIAL TOOLS FOR BENCH USE
Nil	Nil
GROUND TESTING EQUIPMENT	GROUND HANDLING EQUIPMENT
A-C Ground Power Unit	Cockpit access stand

INTERCHANGEABLE REPLACEABLE	XX	REMOVAL INSTRUCTIONS	MEN X MINUTES	
			EST.	ACTUAL
		1 Disconnect 5 electrical connections. 2 Remove 1 mounting nut. Remove and Replace	1x	10

MAINTENANCE DATA RECORD				SYSTEM	REF. NO.
AVRO AIRCRAFT LTD.		Engineering Div.		ELECTRICS	11-E17/3
DISTRIBUTION: STANDARD + S. Brown		A/C TYPE - Arrow 1 EFF. A/C - 25201		COMPONENT Light Controller - Front C/P Instrument Lights	
MANUFACTURER'S PART NO.				AVRO PART NO.	
MANUFACTURER'S NAME				CS-T-134	
AVROCAN SPEC. E 352 E.O. NO.				REF. DWGS.	
ENVELOPE SIZE 2.75" x 2 1/16" Dia. WEIGHT LB.				7-1100-2 sht 7 7-1100-3 sht 12	
LOCATION Mounted on Panel E17 in front cockpit				REF. M.D.R.	
FUNCTION By rotating switch from off to bright, control the brilliancy of the C/P instrument lights.				RELIABILITY	
				OVERHAUL LIFE 1500 HRS.	
				WASTAGE	
				Q.T.R.	
INSPECTION PERIOD	OPERATION TO BE PERFORMED			MEN X MINUTES	
				EST.	ACTUAL
Primary 25 Hr.	Function check (See Maintenance Instructions Report 71/MAINT 11/2			1 x 2	
	Check electrical connections for security. Check security of mounting			1 x 2	
ACCESSIBILITY					
Unobstructed					
ISSUE	1				
DATE	26 Aug 57				
COMPILED	W02 Wentworth				
CHECKED	J. Ferguson				
APPROVED	R.F. Reid				

MAINTENANCE DATA RECORD				SYSTEM ELECTRICS		REF. NO. 11-E17/4	
AVRO AIRCRAFT LTD.		Engineering Div.					
DISTRIBUTION: STANDARD + S. Brown		A/C TYPE - Arrow 1 EFF. A/C - 25201		COMPONENT Light Controller - Front C/P Console Edge Lights			
MANUFACTURER'S PART NO.				AVRO PART NO.			
MANUFACTURER'S NAME				CS-T-134			
AVROCAN SPEC. E352		E.O. NO.					
ENVELOPE SIZE 2.75" x 2 1/16 Dia.		WEIGHT		LB.		REF. DWGS.	
LOCATION Mounted on panel E17 in front cockpit				7-1100-2 sht 7 7-1100-3 sht 12			
FUNCTION By rotating switch from off to bright control the brilliancy of the front C/P console edge lights.				REF. M.D.R.			
				RELIABILITY			
				OVERHAUL LIFE 1500		HRS.	
				WASTAGE			
				Q.T.R.			
INSPECTION PERIOD	OPERATION TO BE PERFORMED			MEN X MINUTES			
				EST.	ACTUAL		
Primary 25 Hr.	Function check. (See Maintenance Instructions Report 71/MAINT 11/2			1	2		
	Check electrical connections for security Check security of mounting			1	2		
ACCESSIBILITY							
Unobstructed							
ISSUE	1						
DATE	26 Aug. 57						
COMPILED	W02 Wentworth						
CHECKED	J. Ferguson						
APPROVED	R.F. Reid						

MAINTENANCE DATA RECORD		SYSTEM	REF. NO.
AVRO AIRCRAFT LTD.		ELECTRICS	11-E17/5
Engineering Div.			
DISTRIBUTION: STANDARD + S. Brown	A/C TYPE - Arrow 1 EFF. A/C - 25201	COMPONENT Light Controller - Front Cockpit Flood Light	
MANUFACTURER'S PART NO.		AVRO PART NO.	
MANUFACTURER'S NAME		CS-T-134	
AVROCAN SPEC. E352 E.O. NO.		REF. DWGS.	
ENVELOPE SIZE 2.75" x 2 1/16" Dia. WEIGHT LB.		REF. M.D.R.	
LOCATION Mounted on panel E17 in pilot's cockpit		RELIABILITY	
FUNCTION Rotation of the switch from OFF to BRIGHT controls the brilliancy of the front C/P flood lights.		OVERHAUL LIFE 1500 HRS.	
		WASTAGE	
		Q.T.R.	
INSPECTION PERIOD	OPERATION TO BE PERFORMED	MEN X MINUTES	
		EST.	ACTUAL
Primary	Function check (See Maintenance Instructions Report 71/MAINT 11/2)	1 x 2	
25 Hrs.	Check electrical connections for security Check security of mounting.	1 x 2	
ACCESSIBILITY			
Unobstructed			
ISSUE	1		
DATE	27 Aug 57		
COMPILED	W02 Wentworth		
CHECKED	J. Ferguson		
APPROVED	R.F. Reid		

LUBRICATION NIL

APPLICATION	MATERIAL	SPECIFICATION	FREQUENCY	ACCESS

DETAILS:

GROUND SUPPORT EQUIPMENT

SPECIAL TOOLS FOR AIRCRAFT USE	SPECIAL TOOLS FOR BENCH USE
NIL	NIL

GROUND TESTING EQUIPMENT	GROUND HANDLING EQUIPMENT
A/C Ground Power Unit	Cockpit access stand

INTERCHANGEABLE	REPLACEABLE	REMOVAL INSTRUCTIONS	MEN X MINUTES	
			EST.	ACTUAL

1. Disconnect 3 electrical connections
2. Remove 1 mounting nut.

Remove and replace

1 x 10

MAINTENANCE DATA RECORD				SYSTEM		REF. NO.	
AVRO AIRCRAFT LTD.				ELECTRICS		11-E17/9	
Engineering Div.							
DISTRIBUTION: STANDARD + S. Brown		A/C TYPE - Arrow 1 EFF. A/C - 25201		COMPONENT Switch - Front C/P H.A. Flood Lights			
MANUFACTURER'S PART NO. 8801K16				AVRO PART NO.			
MANUFACTURER'S NAME Cuttler Hammer							
AVROCAN SPEC. E.O. NO.							
ENVELOPE SIZE 1 1/8" x 1 3/64" x 5/8" WEIGHT 0.08 LB.				REF. DWGS. 7-1100-2 sht 7 7-1100-3 sht 12			
LOCATION Mounted on panel E17, in front cockpit.				REF. M.D.R.			
FUNCTION Provides switching for the Front C/P high altitude flood light.				RELIABILITY OVERHAUL LIFE 1500 HRS. WASTAGE Q.T.R.			
INSPECTION PERIOD		OPERATION TO BE PERFORMED				MEN X MINUTES	
						EST. ACTUAL	
Primary		Function check (See Maintenance Instructions Report 71/MAINT 11/2)				1 x 2	
25 Hrs.		Check electrical connections for security. Check security of mounting.				1 x 2	
ACCESSIBILITY							
Unobstructed							
ISSUE	1						
DATE	27 Aug 57						
COMPILED	W02 Wentworth						
CHECKED	J. Ferguson						
APPROVED	R.F. Reid						

MAINTENANCE DATA RECORD				SYSTEM	REF. NO.
AVRO AIRCRAFT LTD.		Engineering Div.		ELECTRICS	11-E22/5
DISTRIBUTION: STANDARD + S. Brown K. Knowlton		A/C TYPE - Arrow 1 EFF. A/C - 25201		COMPONENT Switch - Navigation lights.	
MANUFACTURER'S PART NO. 7662K5 MANUFACTURER'S NAME Cuttler Hammer AVROCAN SPEC. E.O. NO. ENVELOPE SIZE 1 5/16" x 1 7/16 x 1 7/32" WEIGHT 0.16 LB. LOCATION Mounted on panel E22 located in the front cockpit FUNCTION Provide switching for the navigation lights.				AVRO PART NO. REF. DWGS. 7-1100-2 sht 6 7-1100-3 sht 13 REF. M.D.R. 11-E22 RELIABILITY OVERHAUL LIFE HRS. WASTAGE Q.T.R.	
INSPECTION PERIOD	OPERATION TO BE PERFORMED			MEN X MINUTES	
				EST.	ACTUAL
Primary	Function check (See Maintenance Instructions Report 71/Maint 11/2)			2	2
25 hrs.	Check security of electrical connection. Check security for mounting.			1	5
ACCESSIBILITY					
Unobstructed					
ISSUE	1				
DATE	18 Sep 57				
COMPILED	W02 Wentworth				
CHECKED	K.P. Lowe				
APPROVED	R.F. Reid				

LUBRICATION NIL

APPLICATION	MATERIAL	SPECIFICATION	FREQUENCY	ACCESS

DETAILS:

GROUND SUPPORT EQUIPMENT

SPECIAL TOOLS FOR AIRCRAFT USE	SPECIAL TOOLS FOR BENCH USE
NIL	NIL
GROUND TESTING EQUIPMENT	GROUND HANDLING EQUIPMENT
A-C Ground Power Unit	Cockpit access stand.

INTERCHANGEABLE	REPLACEABLE	REMOVAL INSTRUCTIONS	MEN X MINUTES	
			EST.	ACTUAL
XXX		1 Disconnect 9 electrical connections. 2 Remove 1 mounting nut. Remove and Replace	1 x 15	

MAINTENANCE DATA RECORD		SYSTEM ELECTRICS	REF. NO. 11-E26/4
AVRO AIRCRAFT LTD. Engineering Div.			
DISTRIBUTION: STANDARD + S. Brown K. Knowlton	A/C TYPE - Arrow 1 EFF. A/C - 25201	COMPONENT Light controller - rear C/P MIP & console edge lights	
MANUFACTURER'S PART NO.		AVRO PART NO. CS-T-134	
MANUFACTURER'S NAME			
AVROCAN SPEC. E352	E.O. NO.		
ENVELOPE SIZE 2.75" x 2 1/16" DIAM	WEIGHT	LB.	REF. DWGS. 7-1100-3 Sht. 12 7-1100-2 Sht. 8
LOCATION Mounted on panel E26 located in rear cockpit.			
FUNCTION By rotating the switch from OFF to BRIGHT, controls the brilliancy of the rear C/P, M.I.P. and console edge lights		REF. M.D.R. 11-E26	
RELIABILITY			
OVERHAUL LIFE		HRS.	
WASTAGE			
Q.T.R.			
INSPECTION PERIOD	OPERATION TO BE PERFORMED	MEN X MINUTES	
		EST.	ACTUAL
Primary	Function check - (See Maintenance Instructions Report 71/MAINT 11/2)	1	2
25 Hrs.	Check electrical connections for security Check security of mounting	1	2
ACCESSIBILITY			
Unobstructed			
ISSUE	1		
DATE	18 Sept. 57		
COMPILED	WO2 Wentworth		
CHECKED	K.P. Lowe		
APPROVED	R.F. Reid		

LUBRICATION NIL

APPLICATION	MATERIAL	SPECIFICATION	FREQUENCY	ACCESS

DETAILS:

GROUND SUPPORT EQUIPMENT

SPECIAL TOOLS FOR AIRCRAFT USE	SPECIAL TOOLS FOR BENCH USE
NIL	NIL
GROUND TESTING EQUIPMENT	GROUND HANDLING EQUIPMENT
A-C Ground Power Unit	Cockpit access stand

INTERCHANGEABLE	X	REMOVAL INSTRUCTIONS	MEN X MINUTES	
			EST.	ACTUAL
REPLACEABLE		1. Disconnect 3 electrical connections 2. Remove 1 Mounting Nut Remove and Replace	1 x 10	

MAINTENANCE DATA RECORD		SYSTEM	REF. NO.
AVRO AIRCRAFT LTD. Engineering Div.		ELECTRICS	11-E26/5
DISTRIBUTION: STANDARD + S. Brown K. Knowlton	A/C TYPE - Arrow 1 EFF. A/C -25201	COMPONENT Light controller - Rear C/P flood lights	
MANUFACTURER'S PART NO.		AVRO PART NO. CS - T - 134	
MANUFACTURER'S NAME			
AVROCAN SPEC. E352	E.O. NO.		
ENVELOPE SIZE 2.75" x 2 1/16 DIA	WEIGHT	LB.	REF. DWGS. 7-1100-3 Sht. 12 7-1100-2 Sht. 8
LOCATION Mounted on panel E26 located in rear cockpit			
FUNCTION By rotating the switch from OFF to BRIGHT, controls the brilliancy of the rear C/P flood lights.		REF. M.D.R. 11-E26	
RELIABILITY			
OVERHAUL LIFE		HRS.	
WASTAGE			
Q.T.R.			
INSPECTION PERIOD	OPERATION TO BE PERFORMED	MEN X MINUTES	
		EST.	ACTUAL
Primary	Function check - (See Maintenance Instructions Report 71/MAINT 11/2)	1 x 2	
25 Hrs.	Check electrical connections for security Check security of mounting	1 x 2	
ACCESSIBILITY			
Unobstructed			
ISSUE	1		
DATE	Sept. 18/57		
COMPILED	W02 Wentworth		
CHECKED	K.P. Lowe		
APPROVED	R.F. Reid		

LUBRICATION NIL

APPLICATION	MATERIAL	SPECIFICATION	FREQUENCY	ACCESS

DETAILS:

GROUND SUPPORT EQUIPMENT

SPECIAL TOOLS FOR AIRCRAFT USE	SPECIAL TOOLS FOR BENCH USE
NIL	NIL
GROUND TESTING EQUIPMENT	GROUND HANDLING EQUIPMENT
A.C. Ground Power Unit	Cockpit access stand

INTERCHANGEABLE	REPLACEABLE	REMOVAL INSTRUCTIONS	MEN X MINUTES	
			EST.	ACTUAL
X		1. Disconnect 3 electrical connections 2. Remove 1 mounting nut Remove & Replace	1 x 10	

MAINTENANCE DATA RECORD				SYSTEM	REF. NO.
AVRO AIRCRAFT LTD.		Engineering Div.		ELECTRICS	11-E26/9
DISTRIBUTION: STANDARD + K. Knowlton S. Brown		A/C TYPE - ARROW 1 EFF. A/C - 25201		COMPONENT Switch - Rear C/P H.A. Flood Lights	
MANUFACTURER'S PART NO. 8801-K16				AVRO PART NO.	
MANUFACTURER'S NAME Cutler Hammer				8801-K16	
AVROCAN SPEC. E.O. NO.					
ENVELOPE SIZE 1-3/64" x 1-1/8" x 5/8" WEIGHT 0.08 LB.				REF. DWGS. 7-1100-2 Sht.8 7-1100-3 Sht.12	
LOCATION Mounted on panel E26 in rear cockpit.				REF. M.D.R.	
FUNCTION When selected to the ON position completed the electrical circuit to the rear C/P high altitude lights.				RELIABILITY	
				OVERHAUL LIFE 1500	HRS.
				WASTAGE	
				Q.T.R.	
INSPECTION PERIOD	OPERATION TO BE PERFORMED			MEN X MINUTES	
				EST.	ACTUAL
Primary	Function check. (See Maintenance Instructions Report 71/Maint 11/2)			1	2
ACCESSIBILITY					
Unobstructed.					
ISSUE	1				
DATE	August 27/57				
COMPILED	WO2 Wentworth				
CHECKED	J. Ferguson				
APPROVED	R.F. Reid				

LUBRICATION NIL

APPLICATION	MATERIAL	SPECIFICATION	FREQUENCY	ACCESS

DETAILS:

GROUND SUPPORT EQUIPMENT

SPECIAL TOOLS FOR AIRCRAFT USE	SPECIAL TOOLS FOR BENCH USE
NIL	NIL
GROUND TESTING EQUIPMENT	GROUND HANDLING EQUIPMENT
A/C Ground Power Unit	Cockpit Access Stand

INTERCHANGEABLE REPLACEABLE	X	REMOVAL INSTRUCTIONS	MEN × MINUTES	
			EST.	ACTUAL
		1. Remove one mounting bolt. 2. Disconnect 2 electrical connections. Remove and Replace	1 x 10	

MAINTENANCE DATA RECORD			SYSTEM	REF. NO.	
AVRO AIRCRAFT LTD.		Engineering Div.		ELECTRICS	11-E102
DISTRIBUTION: STANDARD + S. Brown K. Knowlton		A/C TYPE - Arrow 1 EFF. A/C - 25201		COMPONENT Navigation Light Flasher Unit	
MANUFACTURER'S PART NO. 61370			AVRO PART NO. CS-F-106		
MANUFACTURER'S NAME Lucas-Rotax					
AVROCAN SPEC. E-224 E.O. NO.					
ENVELOPE SIZE 4.5" x 4.5" x 3.0" WEIGHT 2.0 LB.			REF. DWGS. 7-1100-3 sht 13 7-1100-2 sht 17		
LOCATION Rear Face of Bulkhead Sta. 120, Nose Wheel Well			REF. M.D.R.		
FUNCTION To provide periodic flashing of navigation lights.			RELIABILITY		
			OVERHAUL LIFE 1500 HRS. WASTAGE Q.T.R. Pending		
INSPECTION PERIOD	OPERATION TO BE PERFORMED			MEN X MINUTES	
	EST.			ACTUAL	
Primary	Check flasher for security and damage. Check connector for security. Function check - refer to Maintenance Instructions Report 71/Maint 11/2			2	3
ACCESSIBILITY					
Unobstructed					
<u>Note - Location</u>					
25201-25203 location Bulkhead Sta 120 L/H 25204-25205 location Bulkhead Sta 120 R/H					
ISSUE	1	6			
DATE	April 4/55	25 Sept 57			
COMPILED	C. Wright	W02 Wentworth			
CHECKED	G. Emmerson	K.P. Lowe			
APPROVED		R.F. Reid			

LUBRICATION Nil

APPLICATION	MATERIAL	SPECIFICATION	FREQUENCY	ACCESS

DETAILS:

GROUND SUPPORT EQUIPMENT

SPECIAL TOOLS FOR AIRCRAFT USE	SPECIAL TOOLS FOR BENCH USE
Nil	Nil
GROUND TESTING EQUIPMENT	GROUND HANDLING EQUIPMENT
A-C Ground Power Unit	Maintenance Platform 4G/1596

INTERCHANGEABLE	XX	REMOVAL INSTRUCTIONS	MEN X MINUTES	
REPLACEABLE			EST.	ACTUAL
		1 Disconnect 1 electrical connector. 2 Remove 4 mounting bolts. Estimated - Remove and Replace	1 x 20	

MAINTENANCE DATA RECORD				SYSTEM ELECTRCS	REF. NO. 11-E201
AVRO AIRCRAFT LTD.		Engineering Div.			
DISTRIBUTION: STANDARD + K. Knowlton S. Brown		A/C TYPE - Arrow 1 EFF. A/C - 25201		COMPONENT Landing Light	
MANUFACTURER'S PART NO. N/A				AVRO PART NO.	
MANUFACTURER'S NAME Jarry Hydraulics				AN-3129-4523 Lamp G.E. 4523	
AVROCAN SPEC. E-245 E.O. NO.					
ENVELOPE SIZE 6.5" Dia. X 4.0" WEIGHT 2.0 LB.				REF. DWGS. 7-1100-3 Sht. 13 7-1100-2 Sht. 12 7-4291-1	
LOCATION Nose leg - bottom.					
FUNCTION To illuminate the ground while landing aircraft				REF. M.D.R.	
RELIABILITY					
OVERHAUL LIFE HRS.					
WASTAGE Case A/C Life Filament - Replace when necessary.					
Q.T.R. Pending					
INSPECTION PERIOD	OPERATION TO BE PERFORMED			MEN X MINUTES	
				EST.	ACTUAL
Primary	Check light for security, damage, corrosion, and cracked glass. Function check - (See Maintenance Instructions Report 71/MAINT 11/2)			2	3
ACCESSIBILITY					
Unobstructed					
ISSUE	1	2			
DATE	January 18/57	Sept 17/57			
COMPILED	W02 Wentworth	W02 Wentworth			
CHECKED	D. Collingwood	K.P. Lowe			
APPROVED	R.F. Reid	R.F. Reid			

LUBRICATION NIL

APPLICATION	MATERIAL	SPECIFICATION	FREQUENCY	ACCESS

DETAILS:

GROUND SUPPORT EQUIPMENT

SPECIAL TOOLS FOR AIRCRAFT USE	SPECIAL TOOLS FOR BENCH USE
NIL	NIL
GROUND TESTING EQUIPMENT	GROUND HANDLING EQUIPMENT
A-C Ground Power Unit	NIL

INTERCHANGEABLE	X	REMOVAL INSTRUCTIONS	MEN X MINUTES	
			EST.	ACTUAL
		<u>Unit Removal</u> 1. Remove 1 bolt and nut. 2. Remove 1 positioning bolt. 3. Remove 7 screws. 4. Unscrew 1 electrical wire retaining ferrule nut. 5. Disconnect 2 electrical connections on lamp. Remove and Replace	1 x 30	
		<u>Lamp Removal</u> 1. Remove 6 screws. 2. Unscrew 1 electrical wire retaining ferrule nut. 3. Disconnect 2 electrical connections on lamp. 4. Remove retainer ring and rubber gasket from lamp. Remove and Replace	1 x 25	

MAINTENANCE DATA RECORD		SYSTEM	REF. NO.
AVRO AIRCRAFT LTD. Engineering Div.		ELECTRICS	11-E202
DISTRIBUTION: STANDARD + K. Knowlton S. Brown	A/C TYPE - Arrow 1 EFF. A/C - 25201	COMPONENT Taxi Light	
MANUFACTURER'S PART NO. N/A		AVRO PART NO. Lamp G.E.4523	
MANUFACTURER'S NAME Jarry Hydraulics			
AVROCAN SPEC. E-245 E.O. NO.			
ENVELOPE SIZE 6.5" Dia. X 4.0" WEIGHT 2.0 LB.		REF. DWGS. 7-1100-3 Sht. 13 7-1100-2 Sht. 12 7-4291-1	
LOCATION Nose Leg - Bottom		REF. M.D.R.	
FUNCTION To illuminate ground when taxi-ing and landing aircraft		RELIABILITY OVERHAUL LIFE HRS. WASTAGE Case - A/C Life Filament- Q.T.R. Replace when necessary Pending	
INSPECTION PERIOD	OPERATION TO BE PERFORMED	MEN X MINUTES	
		EST.	ACTUAL
Primary	Check light for security, damage, corrosion and cracked glass. Function check - (See Maintenance Instructions Report 71/MAINT 11/2)	2 x 3	
ACCESSIBILITY			
Unobstructed			
ISSUE	1	2	
DATE	January 18/57	Sept. 18, 57	
COMPILED	W02 Wentworth	W02 Wentworth	
CHECKED	D. Collingwood	K.P. Lowe	
APPROVED	R.F. Reid	R.F. Reid	

LUBRICATION NIL

APPLICATION	MATERIAL	SPECIFICATION	FREQUENCY	ACCESS

DETAILS:

GROUND SUPPORT EQUIPMENT

SPECIAL TOOLS FOR AIRCRAFT USE	SPECIAL TOOLS FOR BENCH USE
NIL	NIL
GROUND TESTING EQUIPMENT	GROUND HANDLING EQUIPMENT
A-C Ground Power Unit	NIL

INTERCHANGEABLE	REPLACEABLE	X	REMOVAL INSTRUCTIONS	MEN X MINUTES	
				EST.	ACTUAL
			<u>Unit Removal</u> 1. Remove 1 bolt and nut 2. Remove 1 positioning bolt. 3. Remove 6 screws 4. Unscrew 1 electrical wire retaining ferrule nut, 5. Disconnect 2 electrical wires on lamp. Remove & Replace	1 x 30	
			<u>Lamp Removal</u> 1. Remove 6 screws. 2. Unscrew 1 electrical wire retaining ferrule nut. 3. Disconnect 2 electrical connections on lamp. 4. Remove retainer ring and rubber gasket from lamp. Remove & Replace	1 x 25	

MAINTENANCE DATA RECORD				SYSTEM	REF. NO.
AVRO AIRCRAFT LTD.		Engineering Div.		ELECTRICS	11-E150?
DISTRIBUTION: STANDARD + K. Knowlton S. Brown		A/C TYPE - ARROW 1 EFF. A/C - 25201		COMPONENT Emergency Flood Light Assembly	
MANUFACTURER'S PART NO. 0-7825				AVRO PART NO.	
MANUFACTURER'S NAME Grimes					
AVROCAN SPEC. E.O. NO.					
ENVELOPE SIZE		WEIGHT		REF. DWGS.	
		LB.		7-1100-2 Sht.7 7-1100-3 Sht.12	
LOCATION Mounted in front cockpit.		REF. M.D.R.			
FUNCTION By rotating switch mounted on light assembly, lamp may be controlled from OFF to full brilliancy.		RELIABILITY			
		OVERHAUL LIFE 1500		HRS.	
		WASTAGE			
		Q.T.R.			
INSPECTION PERIOD	OPERATION TO BE PERFORMED			MEN X MINUTES	
				EST.	ACTUAL
Primary	Function check. (See Maintenance Instructions Report 71/Maint 11/2)			1	2
25 hours	Check security of mounting.			1	2
ACCESSIBILITY					
Unobstructed.					
ISSUE	1				
DATE	August 27/57				
COMPILED	WO2 Wentworth				
CHECKED	J. Ferguson				
APPROVED	R.F. Reid				

LUBRICATION NIL

APPLICATION	MATERIAL	SPECIFICATION	FREQUENCY	ACCESS

DETAILS:

GROUND SUPPORT EQUIPMENT

SPECIAL TOOLS FOR AIRCRAFT USE	SPECIAL TOOLS FOR BENCH USE
NIL	NIL
GROUND TESTING EQUIPMENT	GROUND HANDLING EQUIPMENT
A/C Ground Power Unit	Cockpit Access Stand

INTERCHANGEABLE	REPLACEABLE	REMOVAL INSTRUCTIONS	MEN × MINUTES	
			EST.	ACTUAL
	X	1. Disconnect 2 electrical connectors. 2. Remove 2 mounting bolts. Remove and Replace	1	10

MAINTENANCE DATA RECORD				SYSTEM	REF. NO.
AVRO AIRCRAFT LTD.		Engineering Div.		ELECTRICS	11-E1504
DISTRIBUTION: STANDARD + K. Knowlton S. Brown		A/C TYPE - ARROW 1 EFF. A/C - 25201		COMPONENT Emergency Flood and Map Light Assembly	
MANUFACTURER'S PART NO. D-7825				AVRO PART NO.	
MANUFACTURER'S NAME Grimes					
AVROCAN SPEC.		E.O. NO.			
ENVELOPE SIZE		WEIGHT		REF. DWGS.	
		LB.		7-1100-2 Sht.7 7-1100-3 Sht.12	
LOCATION Mounted in rear cockpit.				REF. M.D.R.	
FUNCTION By rotating switch mounted on light assembly, lamp may be controlled from OFF to full brilliancy.				RELIABILITY	
				OVERHAUL LIFE 1500 HRS.	
				WASTAGE	
				Q.T.R.	
INSPECTION PERIOD	OPERATION TO BE PERFORMED			MEN X MINUTES	
				EST.	ACTUAL
Primary	Function check. (See Maintenance Instructions Report 71/Maint 11/2)			1	2
25 hours	Check light assembly for security.			1	2
ACCESSIBILITY					
Unobstructed.					
ISSUE	1				
DATE	August 27/57				
COMPILED	W02 Wentworth				
CHECKED	J. Ferguson				
APPROVED	R.F. Reid				

LUBRICATION NIL

APPLICATION	MATERIAL	SPECIFICATION	FREQUENCY	ACCESS

DETAILS:

GROUND SUPPORT EQUIPMENT

SPECIAL TOOLS FOR AIRCRAFT USE	SPECIAL TOOLS FOR BENCH USE
NIL	NIL
GROUND TESTING EQUIPMENT	GROUND HANDLING EQUIPMENT
A/C Ground Power Unit	Cockpit Access Stand

INTERCHANGEABLE	X	REMOVAL INSTRUCTIONS	MEN × MINUTES	
			EST.	ACTUAL
		1. Disconnect 2 electrical connections. 2. Remove 2 mounting bolts. Remove and Replace	1 x 10	

MAINTENANCE DATA RECORD				SYSTEM	REF. NO.
AVRO AIRCRAFT LTD.		Engineering Div.		ELECTRICS	11-E1155
DISTRIBUTION: STANDARD + S. Brown K. Knowlton		A/C TYPE - Arrow 1 EFF. A/C - 25201		COMPONENT Light - Wing Tip - Red	
MANUFACTURER'S PART NO. B8020R				AVRO PART NO. 1-CS-L-129-1	
MANUFACTURER'S NAME Aviation Electric (Grimes)					
AVROCAN SPEC. E-229 E.O. NO.					
ENVELOPE SIZE 10.37" x 3.25" x 1.88" WEIGHT 0.80 est. LB.				REF. DWGS. 7-0165-74 7-1100-3 sht 13	
LOCATION Left Hand - Wing tip.					
FUNCTION To give position and direction of motion.				REF. M.D.R.	
				RELIABILITY	
				OVERHAUL LIFE case - 1500 HRS. WASTAGE Filament - Replace when O.T.R. 242 necessary	
INSPECTION PERIOD	OPERATION TO BE PERFORMED			MEN X MINUTES	
				EST.	ACTUAL
Primary	Function Check (See Maintenance Instructions Report 71/Maint 11/2)			2	2
25 hrs.	Check for security of attachment, security of connector, blackening of filament, glass unbroken.			1	3
ACCESSIBILITY					
Unobstructed Lamp - AN3122-1524 Replacement lense - Grimes Pt No B7066-1 Red					
ISSUE	1	2	3	4	5
DATE	June 20/55	April 12/56	November 16/56	March 18/57	25 Sept 57
COMPILED	C. Wright	D. Collingwood	D. Collingwood	D. Collingwood	WO2 Wentworth
CHECKED	G. Emmerson	G. Emmerson	W. Wentworth WO2	WO2 Wentworth	K.P. Lowe
APPROVED			R.F. Reid	R.F. Reid	R.F. Reid

LUBRICATION Nil

APPLICATION	MATERIAL	SPECIFICATION	FREQUENCY	ACCESS

DETAILS:

GROUND SUPPORT EQUIPMENT

SPECIAL TOOLS FOR AIRCRAFT USE	SPECIAL TOOLS FOR BENCH USE
Nil	Nil
GROUND TESTING EQUIPMENT	GROUND HANDLING EQUIPMENT
A-C Ground Power Unit	Maintenance Platform 4G/1596

INTERCHANGEABLE	XX	REMOVAL INSTRUCTIONS	MEN X MINUTES	
			EST.	ACTUAL
		Remove 3 fixing screws. Disconnect 1 electrical connector. Remove and Replace	1 x 7	

MAINTENANCE DATA RECORD		SYSTEM	REF. NO.	
AVRO AIRCRAFT LTD. Engineering Div.		ELECTRICS	11-E1156	
DISTRIBUTION: STANDARD + A. Knowlton S. Brown		A/C TYPE - Arrow I EFF. A/C - 25201	COMPONENT Light - Wing tip - Green	
MANUFACTURER'S PART NO. B8020G MANUFACTURER'S NAME Aviation Electric (Grimes) AVROCAN SPEC. E-229 E.O. NO. ENVELOPE SIZE 10.37" x 3.25" x 1.88" WEIGHT 0.80 est. LB. LOCATION Right Hand - Wing Tip FUNCTION To give position and direction of motion		AVRO PART NO. 2-05 L-129-1	REF. DWGS. 7-0164-74 7-1100-3 sht 13	
		REF. M.D.R.		
		RELIABILITY OVERHAUL LIFE case - 1500 HRS. WASTAGE Filament - Replace when Q.T.R. 242 necessary		
INSPECTION PERIOD	OPERATION TO BE PERFORMED	MEN X MINUTES		
		EST.	ACTUAL	
Primary 25 hrs	Function Check (See Maintenance Instructions Report 71/Maint 11/2) Check for security of attachment, security of connector, Sagging of filament, glass unbroken	2 x 2 1 x 3		
ACCESSIBILITY Unobstructed Replacement: Lamp - AN3122-1524 Lense - Grimes B-7066-2 Green				
ISSUE	1	2	3	4
DATE	June 20/55	April 12/56	April 8/57	25, Sept 57
COMPILED	C. Wright	D. Collingwood	D. Collingwood	WO2 Wentworth
CHECKED	G. Emmerson	G. Emmerson	W Wentworth WO2	K.P. Lowe
APPROVED			R.F. Reid	R.F. Reid

LUBRICATION Nil

APPLICATION	MATERIAL	SPECIFICATION	FREQUENCY	ACCESS

DETAILS:

GROUND SUPPORT EQUIPMENT

SPECIAL TOOLS FOR AIRCRAFT USE	SPECIAL TOOLS FOR BENCH USE
Nil	Nil
GROUND TESTING EQUIPMENT	GROUND HANDLING EQUIPMENT
A-C Ground Power Unit	Maintenance Platform 4G/1596

INTERCHANGEABLE REPLACEABLE	XX	REMOVAL INSTRUCTIONS	MEN × MINUTES	
			EST.	ACTUAL
		Remove 3 fixing screws. Disconnect 1 Electrical connector. Remove and Replace	1 x 7	

MAINTENANCE DATA RECORD				SYSTEM	REF. NO.
AVRO AIRCRAFT LTD.		Engineering Div.		ELECTRICS	11-E1158
DISTRIBUTION: STANDARD + S. Brown K. Knowlton		A/C TYPE - Arrow 1 EFF. A/C - 25201		COMPONENT Light - Fin Tip - White	
MANUFACTURER'S PART NO.				AVRO PART NO.	
MANUFACTURER'S NAME Soderberg (Supplied by Leonard Electric)				7-1183-12	
AVROCAN SPEC. E-229		E.O. NO.		REF. DWGS.	
ENVELOPE SIZE 3.812" x 1.76 dia		WEIGHT 0.375 LB.		7-0111-89 7-1183-7 7-1100-3 sht 13	
LOCATION Fin Tip - Trailing Edge				REF. M.D.R.	
FUNCTION To give position and direction of motion.				RELIABILITY	
				OVERHAUL LIFE Case 1500 HRS. WASTAGE Filament - Replace when Q.T.R. 242 necessary	
INSPECTION PERIOD	OPERATION TO BE PERFORMED			MEN X MINUTES	
	EST.	ACTUAL			
Primary 25 hrs	Function Check (See Maintenance Instructions Report 71/Maint 11/2)			2 x 2	
	Check for security of attachment, security of connector, sagging of filament, glass unbroken			1 x 3	
ACCESSIBILITY					
Unobstructed					
ISSUE	1	2	3	4	
DATE	June 20/55	April 20/56	April 8/57	25 Sep 57	
COMPILED	C. Wright	D. Collingwood	D. Collingwood	W02 Wentworth	
CHECKED	G. Emmerson	G. Emmerson	W Wentworth W02	K.P. Lowe	
APPROVED			R.F. Reid	R.F. Reid	

LUBRICATION Nil

APPLICATION	MATERIAL	SPECIFICATION	FREQUENCY	ACCESS

DETAILS:

GROUND SUPPORT EQUIPMENT

SPECIAL TOOLS FOR AIRCRAFT USE	SPECIAL TOOLS FOR BENCH USE
NIL	NIL
GROUND TESTING EQUIPMENT	GROUND HANDLING EQUIPMENT
A-C Ground Power Unit	Fin Servicing Stand 4G/1230

INTERCHANGEABLE REPLACEABLE	XX	REMOVAL INSTRUCTIONS	MEN × MINUTES	
			EST.	ACTUAL
		1 Remove 2 screws holding lamp to structure 2 Unclamp lens and remove 3 Withdraw lamp from fairing 4 Disconnect 1 Electrical connector. Remove and Replace	1 x 7	

MAINTENANCE DATA RECORD				SYSTEM	REF. NO.
AVRO AIRCRAFT LTD.		Engineering Div.		ELECTRICS	11-E1046
DISTRIBUTION: STANDARD + S. Brown K. Knowlton		A/C TYPE - Arrow 1 EFF. A/C - 25201		COMPONENT Light - Fintip - Red	
MANUFACTURER'S PART NO.				AVRO PART NO.	
MANUFACTURER'S NAME Soderberg (Supplied by Leonard Electric)				7-1183-11	
AVROCAN SPEC.		E.O. NO.		REF. DWGS.	
ENVELOPE SIZE 3.812" x 1.76" dia		WEIGHT 0.80 est. LB.		7-1100-3 sht 13 7-1183-7 7-0111-89	
LOCATION Fin Tip - Trailing Edge				REF. M.D.R.	
FUNCTION To give position and direction of motion.				RELIABILITY	
				OVERHAUL LIFE Case - 1500 HRS. WASTAGE Filament - replace when Q.T.R. 242 necessary	
INSPECTION PERIOD	OPERATION TO BE PERFORMED			MEN X MINUTES	
				EST.	ACTUAL
Primary 25 hrs	Function Check (See Maintenance Instructions Report 71/Maint 11/2)			2	2
	Check for security of attachment, security of connector, blackening of filament, glass unbroken			1	3
ACCESSIBILITY					
Unobstructed					
ISSUE	1	2	3	4	
DATE	June 20/55	April 12/56	Nov 28/56	25 Sept 57	
COMPILED	C. Wright	D. Collingwood	D. Collingwood	W02 Wentworth	
CHECKED	G. Emmerson	G. Emmerson	W02 Wentworth	K.P. Lowe	
APPROVED			R.F. Reid	R.F. Reid	

LUBRICATION Nil

APPLICATION	MATERIAL	SPECIFICATION	FREQUENCY	ACCESS

DETAILS:

GROUND SUPPORT EQUIPMENT

SPECIAL TOOLS FOR AIRCRAFT USE	SPECIAL TOOLS FOR BENCH USE
Nil	Nil
GROUND TESTING EQUIPMENT	GROUND HANDLING EQUIPMENT
A-C Ground Power Unit	Fin Servicing Stand 4G/1230

INTERCHANGEABLE REPLACEABLE	XX	REMOVAL INSTRUCTIONS	MEN × MINUTES	
			EST.	ACTUAL
		1 Remove 2 screws holding lamp to structure 2 Unclamp lens and remove 3 Withdraw lamp from fairing 4 Disconnect 1 electrical connector Remove and Replace	1 x 7	