

16884

71 Maint 11/5

QCX
Avro
CF105
71 Maint
11-5

SECURITY CLASSIFICATION-CONFIDENTIAL

UNCLASSIFIED

ARROW I

MAINTENANCE INSTRUCTIONS

UNLIMITED

ELECTRICS - CANOPY ACTUATION

71/MAINT 11/5

11 Sept. 57

NRC - CISTI
J. H. PARKIN
BRANCH

JUN 8 1995

ANNEXE
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CNRC - ICIST

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For Maintenance and Reliability
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For Equipment Design Group

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ENGINEERING DIVISION, AVRO AIRCRAFT LIMITED, MALTON, ONTARIO

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J. H. Perkin Branch

Institut canadien de
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technique
Annexe J. H. Perkin

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☒ De-Classified

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(Dept)

Date: Jan 9 1996

B.J. Petzinger
B.J. Petzinger

Deputy Coordinator

Access to Information and Privacy

Signature



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| M.D.R. | 11-1502/2 - | Latch Limit Switch-Rear Cockpit Canopy Seal | |
| M.D.R. | 11-1502/3 - | Latch Limit Switch-Rear Cockpit | |

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1. DESCRIPTION

1.1 General

The front and rear canopies are opened and closed by individual electrical actuators operated by a power supply taken from the battery bus. The inflation and deflation of the canopy seals is controlled by a solenoid valve operated by a power supply taken from the emergency D-C bus. The canopies may be mechanically locked when in the closed position. For complete wiring details refer to drawing 7-1100-3, sheet 9.

1.2 Canopy Actuation

- 1.2.1 Each canopy is controlled by two double-pole, double-throw switches having OPEN-OFF-CLOSE positions. One switch is mounted in each cockpit and the other two are mounted externally on the canopy arch for ground operation. As a safety feature the cockpit canopy switches will energize interlocking relays and over-ride any selection of the canopy ground service switches
- 1.2.2 The canopy actuators are of the linear type and contain limit switches to cut off the electrical supply when the canopies are in the fully open or fully closed positions.
- 1.2.3 Limit switches actuated by the canopy latch lever prevent the D-C supply being fed to the actuators before the canopy latch lever is unlocked.
- 1.2.4 An emergency mechanical release is provided, which may be operated internally or externally.
- 1.2.5 The canopies should only be closed and opened once after each flight using the aircraft battery. If further operation is required, a ground power supply should be used.

1.3 Canopy Seal Inflation

- 1.3.1 The canopy seal inflation valve is solenoid-operated by micro-switches actuated by the canopy latch lever. The solenoid is energized and the canopy seals inflated when the second canopy latch lever is selected to the seal inflate position and de-energized to deflate the seals when the first canopy latch lever is selected to the locked position.

2. FUNCTION TESTING

2.1 Introduction

- 2.1.1 Normal opening and closing of the front and rear canopies constitutes a satisfactory functional check for maintenance purposes.



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- 2.1.2 The operation of the canopy seal valve will be checked during the cockpit pressurization test. (See Maintenance Instructions Report 71/MAINT 18/1 - Low Pressure Pneumatics)
- 2.1.3 The canopy ground service switches and the cockpit canopy switches are spring loaded to the OFF position.
- 2.2 Ground Test Equipment
 - 2.2.1 A-C Ground Power Unit
- 2.3 Functional Test-Canopy Actuation
 - 2.3.1 Preparation for Test
 - 2.3.1.1 Connect the A-C ground power unit to the aircraft.
 - 2.3.1.2 Ensure that the canopy control and canopy actuation circuit breakers, located on panel E1, are closed.
 - 2.3.1.3 Enter the front cockpit and select the MASTER ELECTRICS switch to the ON position.
 - 2.3.2 Test Procedure
 - 2.3.2.1 Select the front canopy switch to the CLOSE position. The front canopy actuator will be energized, closing the front canopy.
 - 2.3.2.2 Select the front canopy latch lever to the LOCK position (Figure 1) This will de-actuate the front canopy actuation micro-switch.
 - 2.3.2.3 To determine if the front canopy actuation micro-switch has de-actuated, select the front canopy switch to the OPEN position. The front canopy should remain closed.
 - 2.3.2.4 Select the front canopy latch lever to the UNLOCK position (Figure 1) This will actuate the front canopy actuation micro-switch.
 - 2.3.2.5 Select the front canopy switch to the OPEN position. The front canopy actuator will be energized, opening the front canopy.
 - 2.3.2.6 Two men are required to determine if the front canopy switch will over-ride the front canopy ground service switch. With a man in the front cockpit, the man outside will make a CLOSE selection on the front canopy ground service switch. The front canopy actuator will be energized moving the front canopy toward the closed position.



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2.3.2.6 (continued)

The man in the front cockpit should be able to reverse the canopy actuation by making an OPEN selection on the front canopy switch.

- 2.3.2.7 Repeat the above procedure (Paras. 2.3.2.1 to 2.3.2.6 inclusive) for the rear canopy, reading "rear" for "front" in each step of the procedure.

2.4 Functional Test - Canopy Seal Control Valve

A satisfactory electrical check of the canopy seal control valve is accomplished by listening to the operation of the canopy seal control valve solenoid when the solenoid is energized and de-energized. It will be possible to hear this operation from the rear cockpit. With reference to Figure 1, carry out the following:

- 2.4.1 Select the front canopy latch lever to the SEAL INFLATE position. This will actuate the front canopy seal micro-switch.
- 2.4.2 Select the rear canopy latch lever to the SEAL INFLATE position. This will actuate the rear canopy seal micro-switch. At this point the canopy seal control valve solenoid should be energized.
- 2.4.3 Select the rear canopy latch lever to the LOCK position. This should de-actuate the rear canopy seal micro-switch and de-energize the canopy seal control valve solenoid.
- 2.4.4 Select the rear canopy latch lever to the SEAL INFLATE position. This will actuate the rear canopy seal micro-switch and de-energize the canopy seal control valve solenoid.

2.5 Micro Switch Adjustment

To adjust the canopy actuation and canopy seal micro-switches, proceed as follows, with reference to Figure 1:

2.5.1 Canopy Actuation

- 2.5.1.1 Connect a test lamp between the ground and "normally open" terminal of the canopy actuation micro-switch.
- 2.5.1.2 Move the canopy latch lever toward the UNLOCKED position. Check the amount of movement of the canopy actuation micro-switch arm after the light is illuminated. This movement should be from .025 to .075 inches.



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- 2.5.1.3 If adjustment is required, loosen the micro-switch mounting screws and move the micro-switch until the micro-switch arm movement is within the correct limits.

2.5.2 Canopy Seal

- 2.5.2.1 Connect a test lamp between the ground and "normally open" terminal of the canopy seal switch.
- 2.5.2.2 Move the canopy latch lever toward the SEAL INFLATE position. Check the amount of movement of the canopy seal micro-switch arm after the light is illuminated. This movement should be from .025 to .075 inches.
- 2.5.2.3 If adjustment is required, loosen the micro-switch mounting screws and move the micro-switch until the micro-switch arm movement is within the correct limits.

2.6 Completion of Tests

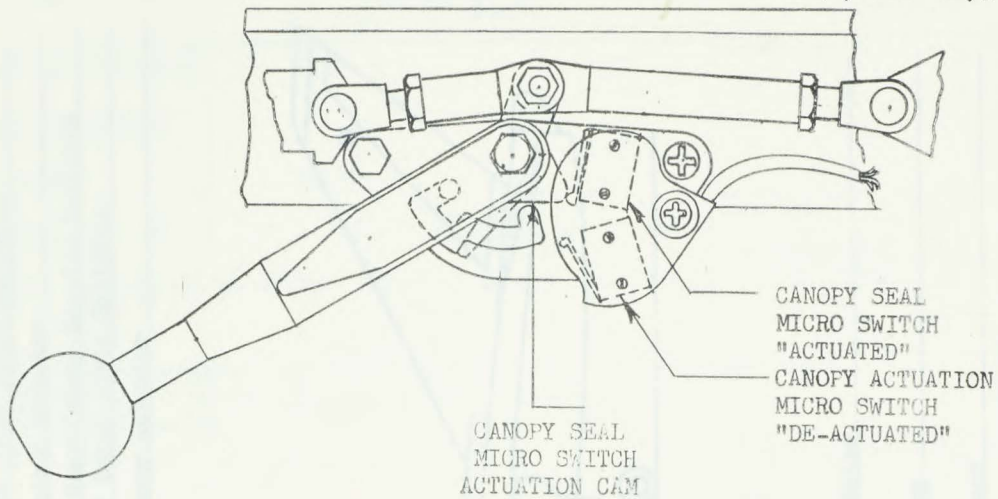
On completion of the functional tests, carry out the following:

- 2.6.1 Select the rear canopy ground service switch to the CLOSE position. The rear canopy actuation will be energized, closing the rear canopy.
- 2.6.2 Enter the front cockpit and select the MASTER ELECTRICS switch to the OFF position.
- 2.6.3 Select the front canopy ground service switch to the CLOSE position. The front canopy actuator will be energized, closing the front canopy.
- 2.6.4 Disconnect the A-C ground power unit from the aircraft.



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LEVER IN
CANOPY SEAL
INFLATE POSITION

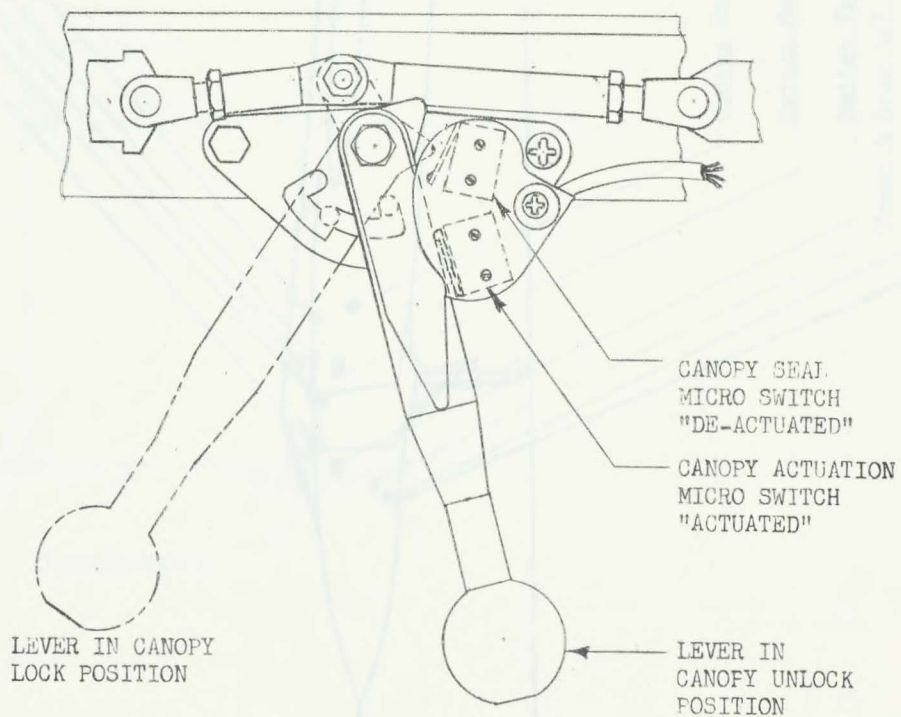
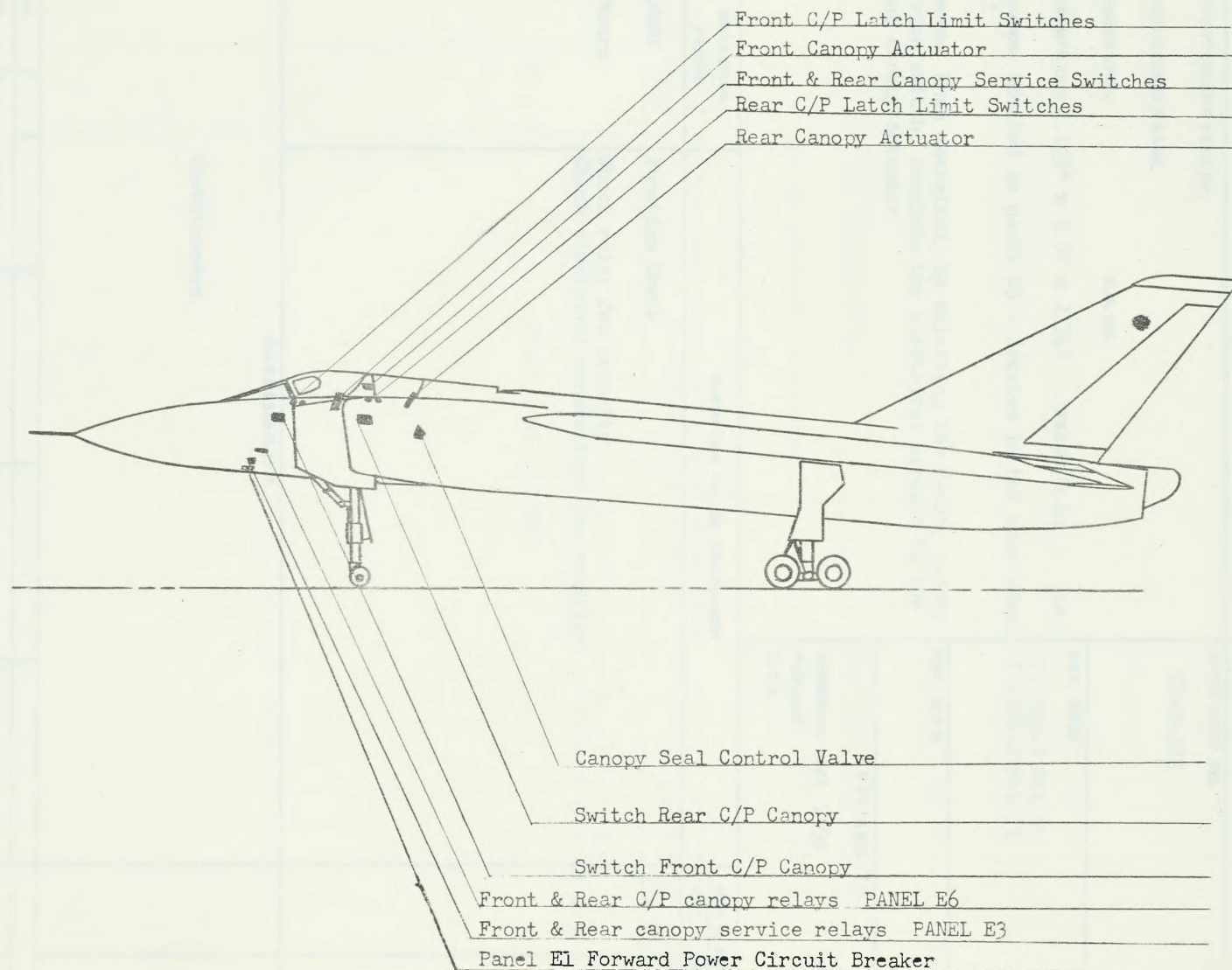


FIGURE 1: CANOPY LATCH LEVER



FIGURE 2
COMPONENT LOCATION



| MAINTENANCE DATA RECORD | | | | SYSTEM ELECTRICS | | REF. NO. 11-E3/14 | |
|---|---------------|---|--|---|---------------|----------------------|--------|
| AVRO AIRCRAFT LTD. Engineering Div. | | | | | | | |
| DISTRIBUTION: STANDARD + S. Brown | | A/C TYPE - Arrow 1 EFF. A/C 25201 | | COMPONENT Relay - Front Cockpit canopy service | | | |
| MANUFACTURER'S PART NO. MANUFACTURER'S NAME AVROCAN SPEC. E.O. NO. | | | | AVRO PART NO. CS-R-122 | | | |
| ENVELOPE SIZE 2.125" x 2.6" x 2.34" WEIGHT 0.44 LB. | | | | REF. DWGS. 7-1100-3 Sht 9 7-1100-2 Sht 11 | | | |
| LOCATION Mounted on panel E3 - located in the nose wheel well. | | | | REF. M.D.R. | | | |
| FUNCTION When energized, by selecting the front, canopy service switch, complete the electrical circuit to the front canopy actuator. | | | | RELIABILITY OVERHAUL LIFE 1500 HRS. WASTAGE Q.T.R. | | | |
| INSPECTION PERIOD | | OPERATION TO BE PERFORMED | | | MEN X MINUTES | | |
| | | | | | EST. | | ACTUAL |
| PRIMARY | | Function Check | | | 1 x 1 | | |
| 25 Hours | | Check relay for security Check electrical connections for security | | | 1 x 5 | | |
| ACCESSIBILITY | | | | | | | |
| Unobstructed. | | | | | | | |
| WEEK | 1 | | | | | | |
| DATE | July 24, 1957 | | | | | | |
| 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 | Maintenance Platform 4G/1596 |

| | | | | |
|-----------------|---|-----------------------------|----------------------|--------|
| INTERCHANGEABLE | X | REMOVAL INSTRUCTIONS | MEN X MINUTES | |
| REPLACEABLE | | | EST. | ACTUAL |

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

Remove and Replace

1 x 20

| MAINTENANCE DATA RECORD | | | | SYSTEM ELECTRICS | | REF. NO. 11-E3/16 | |
|---|---------------|--|--|--------------------|---|----------------------|--|
| AVRO AIRCRAFT LTD. | | | | Engineering Div. | | | |
| DISTRIBUTION: STANDARD + S. Brown | | | A/C TYPE - Arrow 1 EFF. A/C - 25201 | | COMPONENT Relay - Rear cockpit canopy Service | | |
| MANUFACTURER'S PART NO. | | | | AVRO PART NO. | | | |
| MANUFACTURER'S NAME | | | | CS-R-122 | | | |
| AVROCAN SPEC. | | E.O. NO. | | | | | |
| ENVELOPE SIZE 2.125" x 2.6" x 2.34" | | | | WEIGHT 0.44 | | LB. | |
| LOCATION Mounted on panel E3, located in the nose wheel well. | | | | 7-1100-2 Sht 11 | | | |
| FUNCTION When energized, by selecting the rear canopy service switch, completes the electrical circuit to the rear canopy actuator. | | | | 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 | | Function check | | | 1 x 1 | | |
| 25 Hours | | Check relay for security Check electrical connection for security | | | 1 x 5 | | |
| ACCESSIBILITY | | | | | | | |
| Unobstructed | | | | | | | |
| ISSUE | 1 | | | | | | |
| DATE | July 24, 1957 | | | | | | |
| 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 | | Maintenance platform 4G/1596 | | | |
| INTERCHANGEABLE | X | REMOVAL INSTRUCTIONS | | MEN x MINUTES | |
| REPLACEABLE | | | | EST. | ACTUAL |
| 1. Disconnect 4 electrical connections 2. Remove 2 mounting bolts Remove and Replace | | 1 x 20 | | | |

| MAINTENANCE DATA RECORD | | | | SYSTEM | REF. NO. |
|--|---|--|--|---|----------|
| AVRO AIRCRAFT LTD. | | Engineering Div. | | ELECTRICS | 11-E6/12 |
| DISTRIBUTION: STANDARD + S. Brown | | A/C TYPE - Arrow 1 EFF. A/C - 25201 | | COMPONENT Relay - Front Cockpit Canopy | |
| 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 | |
| LOCATION Mounted on panel E6, located in nose wheel well. | | | | REF. M.D.R. | |
| FUNCTION When energized, by selecting the pilot's canopy switch, complete the electrical circuit to the front canopy actuator. | | | | RELIABILITY | |
| | | | | OVERHAUL LIFE 1500 HRS. | |
| | | | | WASTAGE | |
| | | | | Q.T.R. | |
| INSPECTION PERIOD | OPERATION TO BE PERFORMED | | | MEN X MINUTES | |
| | | | | EST. | ACTUAL |
| PRIMARY | Function check | | | 1 x 1 | |
| 25 Hours | Check relay for security Check electrical connections for security | | | 1 x 5 | |
| ACCESSIBILITY | | | | | |
| Unobstructed | | | | | |
| ISSUE | 1 | | | | |
| DATE | July 24 1957 | | | | |
| 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 | Maintenance Platform 4G/1596 |

| INTERCHANGEABLE | REMOVAL INSTRUCTIONS | MEN X MINUTES | |
|-----------------|--|---------------|--------|
| REPLACEABLE | | EST. | ACTUAL |
| X | <p>1. Disconnect 5 electrical connections</p> <p>2. Remove 2 mounting bolts.</p> <p>Remove and Replace</p> | 1 x 20 | |

| MAINTENANCE DATA RECORD | | | | SYSTEM | REF. NO. |
|---|---|--|--|---|----------|
| AVRO AIRCRAFT LTD. | | Engineering Div. | | ELECTRICS | 11-E6/14 |
| DISTRIBUTION: STANDARD + S. Brown | | A/C TYPE -Arrow 1 EFF. A/C -25201 | | COMPONENT Relay- Rear Cockpit Canopy | |
| 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 | |
| LOCATION Mounting on panel E6, located in nose wheel well | | | | REF. M.D.R. | |
| FUNCTION When energized, by selecting the rear cockpit canopy switch, completes the electrical circuit to the rear canopy actuator. | | | | RELIABILITY | |
| | | | | OVERHAUL LIFE 1500 HRS. | |
| | | | | WASTAGE | |
| | | | | Q.T.R. | |
| INSPECTION PERIOD | OPERATION TO BE PERFORMED | | | MEN X MINUTES | |
| | | | | EST. | ACTUAL |
| PRIMARY | Function check | | | 1 x 1 | |
| 25 Hours | Check relay for security Check electrical connections for security | | | 1 x 5 | |
| ACCESSIBILITY | | | | | |
| Unobstructed | | | | | |
| ISSUE | 1 | | | | |
| DATE | July 24 1957 | | | | |
| 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 | | Maintenance Platform 4G/1596 | | |
| INTERCHANGEABLE | X | REMOVAL INSTRUCTIONS | | MEN X MINUTES |
| REPLACEABLE | | | | EST. |
| 1. Disconnect 5 electrical connections 2. Remove 2 mounting bolts | | Remove and Replace | | 1 x 20 |

| MAINTENANCE DATA RECORD | | | | SYSTEM ELECTRICS | | REF. NO. | |
|---|---------------|---|--|---|--------------------|----------|--------|
| AVRO AIRCRAFT LTD. Engineering Div. | | | | | | 11-E10/2 | |
| DISTRIBUTION: STANDARD + S. Brown | | A/C TYPE - Arrow 1 EFF. A/C - 25201 | | COMPONENT Switch- Pilot's canopy | | | |
| MANUFACTURER'S PART NO. 8834K4 MANUFACTURER'S NAME Cutler Hammer AVROCAN SPEC. E.O. NO. ENVELOPE SIZE 1 5/16" X 075" X 1 13/64" WEIGHT 0.10 LB. LOCATION Mounted on panel E10, located in front cockpit FUNCTION To facilitate the actuation of the pilot's canopy actuator from the front cockpit | | | | AVRO PART NO. REF. DWG. 7-1100-2 Sht 4 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 Hours | | Function check Check switch for security of mounting. Check electrical connections for security | | | 1 x 1 1 x 5 | | |
| ACCESSIBILITY Unobstructed | | | | | | | |
| ISSUE | 1 | | | | | | |
| DATE | July 24 1957 | | | | | | |
| 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 X MINUTES | |
| REPLACEABLE | | | | EST. | ACTUAL |
| 1. Disconnect 6 electrical connections 2. Remove one mounting nut | | Remove and Replace | | 1 x 10 | |

ACTUAL

| MAINTENANCE DATA RECORD | | | | SYSTEM | REF. NO. |
|--|---------------|--|--|--|----------|
| AVRO AIRCRAFT LTD. | | Engineering Div. | | ELECTRICS | 11-E19/6 |
| DISTRIBUTION: STANDARD + S. Brown | | A/C TYPE - Arrow 1 EFF. A/C - 25201 | | COMPONENT Switch - Rear cockpit canopy | |
| MANUFACTURER'S PART NO. 8834K4 | | | | AVRO PART NO. | |
| MANUFACTURER'S NAME Cutler Hammer | | | | | |
| AVROCAN SPEC. E.O. NO. | | | | | |
| ENVELOPE SIZE 1.3125" x .75" x 1.8125" WEIGHT 0.10 LB. | | | | REF. DWGS. 7-1100-2 Sht 8 | |
| LOCATION Mounted on panel E19, located in rear cockpit | | | | | |
| FUNCTION To facilitate the actuation of the rear canopy actuation from the rear cockpit. | | | | 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 | | Function check | | 1 x 1 | |
| 25 Hrs. | | Check switch for security of mounting Check electrical connections for security | | 1 x 5 | |
| ACCESSIBILITY | | | | | |
| Unobstructed | | | | | |
| ISSUE | 1 | | | | |
| DATE | 24 July 1957 | | | | |
| 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 | X | REMOVAL INSTRUCTIONS | | MEN X MINUTES |
| REPLACEABLE | | | | EST. ACTUAL |
| | | 1. Disconnect 6 electrical connections 2. Remove one mounting nut Remove and Replace | | 1 x 10 |

CTUAL

| MAINTENANCE DATA RECORD | | | | SYSTEM | | REF. NO. | |
|---|----------------|---|--|--|--|---------------|--|
| AVRO AIRCRAFT LTD. Engineering Div. | | | | ELECTRICS | | 11-E101 | |
| DISTRIBUTION: STANDARD + S. Brown K. Knowlton | | A/C TYPE - Arrow 1 EFF: A/C - 25201 | | COMPONENT Front Canopy Service Switch | | | |
| MANUFACTURER'S PART NO. CS-S-159-7 | | | | AVRO PART NO. CS-S-159-7 | | | |
| MANUFACTURER'S NAME | | | | | | | |
| AVROCAN SPEC. E.O. NO. | | | | | | | |
| ENVELOPE SIZE 2.3" x 1.3" x 0.75" WEIGHT 0.11 LB. | | | | REF. DWGS. 7-1052-5724 7-1100-2 sht 4 7-1052-5 sht 3 7-1052-2 sht 2 7-1052-5657 | | | |
| LOCATION Between front and rear canopy - left side | | | | | | | |
| FUNCTION External switch for front canopy actuation | | | | REF. M.D.R. | | | |
| | | | | RELIABILITY OVERHAUL LIFE 1500 HRS. WASTAGE Q.T.R. Pending | | | |
| INSPECTION PERIOD | | OPERATION TO BE PERFORMED | | | | MEN X MINUTES | |
| | | | | | | EST. ACTUAL | |
| Primary | | Check for security of mounting. Check function by actuating switch and observing control of canopy actuator. | | | | 1 x 2 | |
| ACCESSIBILITY | | | | | | | |
| Through hinged access door on left hand side of A/C between pilot's and navigator's cockpits. | | | | | | | |
| ISSUE | 1 | 2 | | | | | |
| DATE | Dec. 8/56 | 20 Sept. 57 | | | | | |
| COMPILED | WO2 Wentworth | WO2 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 | | | | Cockpit Access Stand | | |
| INTERCHANGEABLE | X | REMOVAL INSTRUCTIONS | | | MEN X MINUTES | |
| REPLACEABLE | | | | | EST. | ACTUAL |
| Remove mounting plate 6 screws. Remove 1 switch mounting nut. Disconnect 2 electrical leads. Remove and replace | | | | | 1 x 15 | |

PUT IN
 ACTUAL

| MAINTENANCE DATA RECORD | | | | SYSTEM ELECTRICS | REF. NO. 11E-141 E-142 |
|--|----------------|---|---------------|---|------------------------------|
| AVRO AIRCRAFT LTD. | | Engineering Div. | | | |
| DISTRIBUTION: STANDARD + K. Knowlton S. Brown | | A/C TYPE - Arrow 1 EFF. A/C - 25201 | | COMPONENT Actuators - Pilot and Navigator Canopy | |
| MANUFACTURER'S PART NO. E1600N48-1 MANUFACTURER'S NAME Winnett Boyd (Airborne Accessories) AVROCAN SPEC. E-277 E.O. NO. ENVELOPE SIZE 9.0" x 4.0" x 4.0" WEIGHT 2.39 LB. LOCATION Between canopy and bulkhead - Pilot Sta. 200 Nav's Sta. 266 FUNCTION To open and close the canopy. Actuated by appropriate canopy actuation switch. | | | | AVRO PART NO. 7-1152-9 | |
| | | | | REF. DWGS. 7-1100-2 sht 4 7-1100-3 sht 9 7-1100-2 sht 8 7-1052-19 shts 1-3 | |
| | | | | REF. M.D.R. E-141 - Front E-142 - Rear | |
| | | | | RELIABILITY OVERHAUL LIFE 1500 HRS. WASTAGE Q.T.R. | |
| INSPECTION PERIOD | | OPERATION TO BE PERFORMED | | MEN X MINUTES | |
| | | | | EST. | ACTUAL |
| Primary Electrics | | Check electrical connector for security. Carry out a function check by operating the internal and external canopy actuation switches. | | 1 x 5 | |
| Primary Airframe | | Check actuator for security and damage. | | 1 x 3 | |
| ACCESSIBILITY Open with canopies. | | | | | |
| ISSUE | 1 | 2 | 3 | | |
| DATE | August 17/56 | Jan. 17/57 | 20 Sept. 57 | | |
| COMPILED | D. Collingwood | D. Collingwood | WO2 Wentworth | | |
| CHECKED | WO2 Wentworth | WO2 Wentworth | K.P. Lowe | | |
| APPROVED | G. Emerson | 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 | | Cockpit Access Stand | | | |
| INTERCHANGEABLE | X | REMOVAL INSTRUCTIONS | | MEN X MINUTES | |
| REPLACEABLE | | | | EST. | ACTUAL |
| <u>Electrics</u> Disconnect 1 electrical connector. Remove and replace | | 1 x 10 | | | |
| <u>Airframe</u> 1. Remove 1 nut and bolt securing actuator to seat bulkhead. 2. Withdraw "PIP" Pin, holding actuator to canopy, until is free. | | | | | |
| <u>NOTE</u> Do not withdraw "PIP" pin more than is necessary to free actuator. | | | | | |

| MAINTENANCE DATA RECORD | | | | SYSTEM | REF. NO. |
|---|--|--|----------------|---|-----------------|
| AVRO AIRCRAFT LTD. | | Engineering Div. | | L/P Pneumatics | 18-2 11-E143 |
| DISTRIBUTION: STANDARD + G. Shaw S. Brown K. Knowlton | | A/C TYPE - Arrow 1 EFF. A/C - 25201 | | COMPONENT Canopy Seal Control Valve | |
| MANUFACTURER'S PART NO. 30098 MANUFACTURER'S NAME Surface Combustion AVROCAN SPEC. E-332 E.O. NO. ENVELOPE SIZE 5.0" x 5.12" x 2.0" WEIGHT 1.1 LB. LOCATION Aft of Navigator's Seat Bulkhead FUNCTION To pressurize and maintain a constant pressure in the canopy seals. Controlled electrically. | | | | AVRO PART NO. 7-1852-14 REF. DWGS. 7-1800-1 7-1852-19 7-1100-2 sht 13 REF. M.D.R. RELIABILITY OVERHAUL LIFE 1500 HRS. WASTAGE Q.T.R. Pending | |
| INSPECTION PERIOD | OPERATION TO BE PERFORMED | | | MEN X MINUTES | |
| | | | | EST. | ACTUAL |
| 25 Hrs. Airframe | Check for security, damage and corrosion. Check operation of valve by attaching an air gauge downstream of control valve and applying air pressure upstream of control valve. NOTE: Do not inflate canopy seals to full pressure with canopy open. | | | 2 x 10 | |
| 25 Hrs. Electrics | Check electrical connector for security and damage. Function Check (See Maintenance Instructions Report 71/MAINT 11/5) | | | 2 x 10 | |
| ACCESSIBILITY Remove air conditioning access panel on underside of fuselage between stations 224 and 225 by removing 76-3/16 screws and disconnecting antenna attached to panel. Remove H/P Pneumatics storage bottle. Remove and replace | | | | 1 x 80 | |
| ISSUE | 1 | 2 | 3 | 4 | |
| DATE | April 12/56 | Dec. 8/56 | Mar. 25/57 | 20 Sept. 57 | |
| COMPILED | W02 Wentworth | D. Collingwood | D. Collingwood | W02 Wentworth | |
| CHECKED | G. Emmerson | Sgt Foster | Sgt Foster | Sgt Foster | |
| 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 | | |
| Compressed Air Unit Pressure Gauge A-C Ground Power Unit H/P Nitrogen Air Compressor | | Cockpit Access Stand Maintenance Platform 4G/1596 | | |
| INTERCHANGEABLE | X | REMOVAL INSTRUCTIONS | MEN X MINUTES | |
| REPLACEABLE | | | EST. | ACTUAL |
| (Airframe) | | 1. Remove cockpit exhaust duct. 2. Discharge H/P pneumatics storage bottle. 3. Disconnect 1 pipe line from bottle. 4. Remove 10 bolts from cradle of bottle. 5. Remove 2 screws from straps holding bottle. 6. Remove bottle. 7. Disconnect 2 pipe lines from valve. 8. Remove 3-10/32 attachment bolts from valve. 9. Remove valve. Remove and replace | 1 x 60 | |
| (Electrics) | | Disconnect 1 electrical connector from valve. Remove and replace | 1 x 2 | |

ACTUAL

| MAINTENANCE DATA RECORD | | | | SYSTEM | REF. NO. |
|--|---|--|--|--|----------|
| AVRO AIRCRAFT LTD. | | Engineering Div. | | ELECTRICS | 11-EL45 |
| DISTRIBUTION: STANDARD + A. Brown K. Knowlton | | A/C TYPE - Arrow 1 EFF. A/C - 25201 | | COMPONENT Rear Canopy Service Switch | |
| MANUFACTURER'S PART NO. CS-S-159-7 | | | | AVRO PART NO. | |
| MANUFACTURER'S NAME | | | | CS-S-159-7 | |
| AVROCAN SPEC. E.O. NO. | | | | REF. DWGS. | |
| ENVELOPE SIZE 2.3" x 1.3" x 0.75" WEIGHT 0.11 LB. | | | | 7-1100-2 sht 4 7-1100-3 sht 9 | |
| LOCATION Between front and rear canopy - left side Sta. 202 | | | | REF. M.D.R. | |
| FUNCTION External switch for rear canopy actuation. | | | | RELIABILITY | |
| | | | | OVERHAUL LIFE 1500 HRS. WASTAGE Q.T.R. | |
| INSPECTION PERIOD | OPERATION TO BE PERFORMED | | | MEN X MINUTES | |
| | | | | EST. | ACTUAL |
| Primary | Check for security of mounting Function check. (See Maintenance Instructions Report 71/MAINT 11/5) | | | 1 x 2 | |
| ACCESSIBILITY | | | | | |
| Through hinged access door on left hand side of A/C between the front and rear cockpits. | | | | | |
| ISSUE | 1 | | | | |
| DATE | 25 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 Supply | | Cockpit Access Stand | | |
| INTERCHANGEABLE | XX | REMOVAL INSTRUCTIONS | | MEN X MINUTES |
| REPLACEABLE | | | | EST. |
| 1 Remove mounting plate 6 screws. 2 Remove 1 switch mounting nut. 3 Disconnect 2 electrical connections. Remove and Replace | | 1 x 15 | | |

ACTUAL

| MAINTENANCE DATA RECORD | | | | SYSTEM | REF. NO. |
|---|---|-------------------------------------|--|--|------------|
| AVRO AIRCRAFT LTD. Engineering Div. | | | | ELECTRICS | 11-E1501/2 |
| DISTRIBUTION: STANDARD + H. Brown | | A/C TYPE Arrow 1 EVT. A/C -25201 | | COMPONENT Limit switch latch-front cockpit canopy seal | |
| MANUFACTURER'S PART NO. MANUFACTURER'S NAME AVROCAN SPFC. H.O. INC. | | | | AVRO PART NO. C S-S-152 | |
| ENVELOPE SIZE .937" x .80" x .356" WEIGHT 0.30 LB. | | | | REF. STOS. 7-1100-2 Sht 7 7-1100-3 sht 9 | |
| LOCATION On canopy latch locking lever in front cockpit. | | | | REF. M.D.R. | |
| FUNCTION When selected, by actuation of the canopy locking lever, closes the front cockpit circuit to the canopy seal valve | | | | RELIABILITY OVERHAUL LIFE 1500 HRS. WASTAGE Q.T.R. | |
| INSPECTION PERIOD | OPERATION TO BE PERFORMED | | | MEN X MINUTES | |
| | | | | EST. | ACTUAL |
| PRIMARY | Function check | | | 1 x 1 | |
| 25 Hour | Check switch for security and damage Check wiring for security | | | 1 x 2 | |
| ACCESSIBILITY Unobstructed | | | | | |
| EDS | 1 | 2 | | | |
| DATE | 24 July 1957 | 16 Oct 57 | | | |
| COMPILED | WO2 Wentworth | WO2 Wentworth | | | |
| CHECKED | J. Ferguson | J. Ferguson | | | |
| 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 | Cockpit access stand |

| INTERCHANGEABLE | REMOVAL INSTRUCTIONS | MEN X MINUTES | |
|-----------------|--|---------------|--------|
| REPLACEABLE | | EST. | ACTUAL |
| X | 1. Disconnect 2 electrical connections 2. Remove 2 mounting bolts Remove and replace | 1 x 10 | |

ACTUAL

| MAINTENANCE DATA RECORD | | | | SYSTEM | | REF. NO. | |
|---|---------------|---|--|--|--------|------------|--|
| AVRO AIRCRAFT LTD. Engineering Div. | | | | ELECTRICS | | 11-E1501/3 | |
| DISTRIBUTION: STANDARD + S. Brown | | A/C TYPE - Arrow 1 EFF. A/C - 25201 | | COMPONENT Limit switch latch- Front Canopy | | | |
| MANUFACTURER'S PART NO. | | | | AVRO PART NO. | | | |
| MANUFACTURER'S NAME | | | | CS-S-152 | | | |
| AVROCAN SPEC. E.O. NO. | | | | REF. DWGS. | | | |
| ENVELOPE SIZE .937" x .80" x .356" WEIGHT 0.30 LB. | | | | 7-1100-2 Sht. 7 | | | |
| LOCATION On canopy latch locking lever in pilot's cockpit | | | | REF. M.D.R. | | | |
| FUNCTION When selected, by the actuator of the canopy locking lever, prevents the front C/P relay E6/12 from being energized. | | | | RELIABILITY | | | |
| | | | | OVERHAUL LIFE 1500 HRS. | | | |
| | | | | WASTAGE | | | |
| | | | | Q.T.R. | | | |
| INSPECTION PERIOD | | OPERATION TO BE PERFORMED | | MEN X MINUTES | | | |
| | | | | EST. | ACTUAL | | |
| PRIMARY | | Function check. | | 1 x 1 | | | |
| 25 Hours | | Check switch for security and damage Check wiring for security | | 1 x 2 | | | |
| ACCESSIBILITY | | | | | | | |
| Unobstructed | | | | | | | |
| ISSUE | 1 | | | | | | |
| DATE | 24 July 1957 | | | | | | |
| COMPILED | W02 Wentworth | | | | | | |
| CHECKED | J. Ferguson | | | | | | |
| APPROVED | H.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 |
| REPLACEABLE | | | | EST. |
| 1. Disconnect 2 electrical connections 2. Remove 2 mounting bolts | | Remove and Replace | | 1 x 10 |

ACTUAL

| MAINTENANCE DATA RECORD | | | | SYSTEM | | REF. NO. | |
|---|---------------|---|--|---|--------|------------|--|
| AVRO AIRCRAFT LTD. Engineering Div. | | | | ELECTRICS | | 11-E1502/2 | |
| DISTRIBUTION: STANDARD + S. Brown | | A/C TYPE - Arrow 1 EFF. A/C - 25201 | | COMPONENT Limit Sw. itch latch rear cockpit Canopy seal | | | |
| MANUFACTURER'S PART NO. | | | | AVRO PART NO. | | | |
| MANUFACTURER'S NAME | | | | CS-S-152 | | | |
| AVROCAN SPEC. | | E.O. NO. | | REF. DWGS. | | | |
| ENVELOPE SIZE .937" x .80" x .356" | | WEIGHT 0.30 LB. | | 7-1100-2 Sht. 8 | | | |
| LOCATION On canopy latch locking lever in rear cockpit it. | | | | REF. M.D.R. | | | |
| FUNCTION When selected, by actuation of the canopy locking lever, closes the rear cockpit circuit to the canopy seal valve. | | | | RELIABILITY | | | |
| | | | | OVERHAUL LIFE 1500 HRS. | | | |
| | | | | WASTAGE | | | |
| | | | | Q.T.R. | | | |
| INSPECTION PERIOD | | OPERATION TO BE PERFORMED | | MEN X MINUTES | | | |
| | | | | EST. | ACTUAL | | |
| PRIMARY | | Function check | | 1 x 1 | | | |
| 25 hours | | Check switch for security and damage Check wiring for security | | 1 x 2 | | | |
| ACCESSIBILITY | | | | | | | |
| Unobstructed | | | | | | | |
| ISSUE | 1 | | | | | | |
| DATE | July 24, 1957 | | | | | | |
| 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 | <input checked="" type="checkbox"/> | REMOVAL INSTRUCTIONS | | MEN X MINUTES | |
| REPLACEABLE | | | | EST. | ACTUAL |
| 1. Disconnect 2 electrical connections 2. Remove 2 mounting bolts Remove and Replace | | 1 x 10 | | | |

| MAINTENANCE DATA RECORD | | | | SYSTEM ELECTRICS | | REF. NO. 11-1502/3 | |
|---|---------------|---|--|---|--|-----------------------|--|
| AVRO AIRCRAFT LTD. Engineering Div. | | | | | | | |
| DISTRIBUTION: STANDARD + S. Brown | | A/C TYPE -Arrow 1 EFF. A/C -25201 | | COMPONENT Limit Switch latch- Rear canopy | | | |
| MANUFACTURER'S PART NO. | | | | AVRO PART NO. | | | |
| MANUFACTURER'S NAME | | | | CS-S-152 | | | |
| AVROCAN SPEC. E.O. NO. | | | | REF. DWGS. | | | |
| ENVELOPE SIZE .937" x .80" x .356" WEIGHT 0.30 LB. | | | | 7-1100-2 Sht 8 | | | |
| LOCATION On canopy latch locking lever in rear cockpit. | | | | REF. M.D.R. | | | |
| FUNCTION When selected, by the actuation of the canopy locking lever, prevents the rear C/P relay from being energized. | | | | RELIABILITY | | | |
| | | | | OVERHAUL LIFE 1500 HRS. | | | |
| | | | | WASTAGE | | | |
| | | | | Q.T.R. | | | |
| INSPECTION PERIOD | | OPERATION TO BE PERFORMED | | MEN X MINUTES | | | |
| | | | | EST. | | ACTUAL | |
| PRIMARY 25 Hours | | Function check Check switch for security and damage Check wiring for security | | 1 x 2 | | | |
| ACCESSIBILITY | | | | | | | |
| Unobstructed. | | | | | | | |
| ISSUE | 1 | | | | | | |
| DATE | July 24, 1957 | | | | | | |
| 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 | X | REMOVAL INSTRUCTIONS | MEN X MINUTES | |
|--|---|----------------------|---------------|--------|
| REPLACEABLE | | | EST. | ACTUAL |
| 1. Disconnect 2 electrical connections 2. Remove 2 mounting bolts Remove and Replace | | | 1 x 10 | |

