REAF (C) ANALYZED

QCY \$ Auro CF105 71 Maint 11-7

SECURITY CLASSIFICATION - CONFIDENTIAL

Classification cancelled / Changed to DUNCLASS

AVRS By authority of .....

Signature...

MAINTENANCE INSTRUCTIONS Unit / Rank / Appointment

ARROW 1

AVESS

ELECTRICS - FUEL SYSTEM

71/MAINT 11/7

9 Dec. 1958

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JUN 8 1995

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For Maintenance and Reliability

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#### 1. DESCRIPTION

#### 1.1 General

- 1.1.1 The fuel system comprises two sub-systems, each of Which incorporates independently operated and electrically identical circuits. One sub-system feeds the RH engine and consists of six RH wing tanks and the fuselage forward tank. The other sub-system feeds the LH engine and consists of six LH wing tanks and the fuselage aft tank. A cross-feed valve connects the two systems. (Refer to AVRO Dwg. 7-1100-3 sht 6 Fuel Valve Control and Warning).
- 1.1.2 Wing tank No. 5 of each sub-system is designated a collector tank and serves as a sub-system reservoir into which fuel is transferred from the other tanks of the sub-system. The transfer action is accomplished by air pressure tapped from the air conditioning system. Because of a structural strength restriction, the fuselage tanks are subjected to less pressure than the wing tanks. This is compensated for by electrically operated transfer pumps fitted in the delivery lines.
- 1.1.3 A proportionate displacement of fuel from each tank into the collector tank is maintained by a mechanically operated flow proportioner unit. An electrically operated flow proportioner by-pass valve is automatically opened in the event of a malfunction and permits fuel to flow from the storage tanks to the collector tank as required. The flow proportioning system will be superseded by a tank sequencing system and, to facilitate the conversion, certain components and circuits are incorporated which are presently inactive. Conversely, certain components now fitted will be deleted upon the introduction of the tank sequencing system. These components and circuits are mentioned, where appropriate, in the relevant circuit descriptions.
- 1.1.4 Fitted in each of the collector tanks is an engine-driven booster pump to assist fuel flow to the engines. Downstream of the booster pumps, the fuel passes to an oil-to-fuel heat exchanger via electrically actuated isolating valves, one of which is fitted in each fuel line. At the outlet from the heat exchanger, the LH and the RH sub-systems are interconnected by an electrically actuated cross-feed valve which, under normal operating conditions, is retained in the closed position. From the heat exchanger the fuel is supplied to the relevant LH or RH engine fuel connection via electrically actuated low pressure cocks, one of which is fitted in each fuel line.
- 1.1.5 During refuelling, the fuel flow is monitored by electrical control circuits which permit full or partial refuelling of the tanks. The weight of usable fuel in the tanks is indicated by a capacitance type fuel quantity indication system.



### 1.1.5 (continued)

(Ref. Maintenance Instructions Report 71/MAINT 12/3 - Instruments - Fuel Contents Indication).

### 1.2 Fuel Low Level Control Circuits

- 1.2.1 Independent, electrically identical fuel low level circuits are provided for the LH and RH sub-systems. The following description applies to each side.
- 1.2.2 Two fuel low level control circuits are provided, one for the fuel collector tank and one for the applicable fuselage tank. The function of the circuits is to provide a DC voltage signal at a predetermined fuel level. Two signals are provided by the collector tank control circuit. One signal is supplied to energize, the flow proportioner by-pass transfer relay and operate the flow proportioner by-pass valve. The other signal is supplied to the FUEL LOW indicator light on the master warning system indicator panel. The signal circuits will be interrupted when the fuel level in the collector tank rises above the predetermined low level. (Ref. to para 1.4). When the fuselage tank low level control circuit senses a tank low level condition it will interrupt the supply circuit to the transfer pump by energizing the transfer pump supply relay.
- 1.2.3 The principle on which the circuit operation is based is that fuel conducts heat more readily than fuel/air vapours. As a result, the heating effect in a resistor will be less when it is immersed in fuel than when it is surrounded by fuel/air vapours. Consequently, if the resistor is of the thermally-sensitive type having an inverse resistance/temperature characteristic?, (i.e an increase in temperature results in a decrease in resistance and a decrease in temperature results in an increase in resistance) the resistance value will increase or decrease in proportion to the degree of heat dissipation.
- 1.2.4 Each circuit includes a level sensor and a control unit. The level sensor is fitted in the relevant fuel tank at the predetermined fuel low level. This unit consists of two temperature-sensitive resistors or thermistors. One thermistor serves as the variable or control leg of a bridge circuit. The other thermistor, which is hermetically sealed, serves as a compensator and is connected in parallel with the reference side of the bridge.



- 1.2.5 The control unit incorporates the reference resistors of the bridge together with a bridge balance sensing circuit. The sensing circuit is a pilot relay, the coil of which is connected between the reference side and the control side of the bridge. When the pilot relay is energized, it completes the energizing supply of a circuit relay which in turn completes the signal supply.
- 1.2.6 When the level sensor is immersed in fuel, the resistance value of the control thermistor will be such that the bridge is balanced. When the fuel reaches the predetermined low level and the control thermistor is exposed to fuel/air vapours, the heating effect of the thermistor will increase. This results in a proportional decrease in its resistance value and creates a difference of potential between the reference side and the control side of the bridge. This voltage is sufficient to energize the pilot relay resulting in the completion of the signal circuit.
- 1.2.7 The reference thermistor is connected in parallel with the reference side of the bridge, and being hermetically sealed, is responsive only to the ambient temperature of the fuel. Changes in fuel temperature, therefore, do not result in unbalancing of the bridge since such changes affect equally the control thermistor and the reference thermistor, the effect on one being cancelled by the corresponding effect on the other.
- 1.2.8 A metal rectifier is fitted in series with the coil of the pilot relay at the control thermistor end of the coil. A rectifier is also fitted between the reference resistor and the compensating thermistor. This is done to ensure that the bridge is unidirectional in operation.
- 1.2.9 Hermetically sealed current limiters are fitted in the line to each thermistor of the level sensor. The limiters are mounted in the level sensor and function to prevent excessive current draw through the circuit wiring which is routed through the fuel tanks.
- 1.2.10 The #1 and #2 tank circuits operate on 27.5 volts DC which is derived from the main DC bus. The supply to the collector tank circuits, is from the EMERG DC bus. The supply to the collector tank circuit is opened via a control relay. This relay is energized when refuelling operations are being carried out.
- 1.2.11 The fuel low level control circuits will be partially deleted upon the introduction of the C.G. system.



### 1.3 Transfer Pump Control Circuits

- 1.3.1 Independent, electrically identical transfer pump control circuits are provided for the LH and the RH sub-systems. The following description applies to each hand.
- 1.3.2 The transfer pump is fitted in the fuel delivery line between the fuselage tank and the flow proportioner unit. The pump is driven by a 3-phase AC motor which derives its supply from the AC primary bus bars via the relay-normally closed contacts of a transfer pump power supply relay. The supply circuit is interrupted when the relay is energized by the completion of either one of two circuits. One circuit is completed by the fuselage tank low level control circuit. The other circuit is completed by the LH main landing gear scissors microswitch which closes when the aircraft weight is on the main wheels. This switch is common to the LH and RH circuits. To facilitate testing the pumps a ground test safety overide switch is fitted in the scissors microswitch supply circuit. The switch is housed on the refuel and test panel located on the lower face of the duct bay forward of the LH speed brake.
- 1.3.3 A differential pressure switch, fitted across the transfer pump, senses the pressure at the inlet and outlet of the pump. When the pump is operating correctly the switch completes a supply circuit to a green press-to-check, indicator light marked TANK PUMP INDICATOR, located on the refuel and test panel which when pressed to check will indicate this condition. If the pressure differential drops to less than 3 psi, the switch transfers the supply signal from the press-to-check indicator light to the warning light marked FUEL PROP, located on the master warning system indicator panel. This action coincides with the opening of a mechanical refuelling shut-off and by-pass valve which permits fuel flow to by-pass the pump. The power supply to the transfer pump differential press switch is derived from the main DC bus via the relay contacts of the pump power supply relay.

#### 1.4 Flow Proportioner - By-Pass Valve Control Circuits

- 1.4.1 Independent, electrically identical flow proportion bypass control circuits are provided for the LH and RH subsystems. The following description applies to each hand.
- 1.4.2 The flow proportioner by-pass valve is normally in the closed position and is opened when a low fuel level condition occurs in the collector tank, or when full refuelling is in operation. The valve, when open due to a low fuel level in the collector tank, permits fuel from the storage tanks to by-pass the flow proportioner and flow directly into the collector tank. In the case of fuel refuelling, fuel entering at the refuelling adaptor flows directly into the storage tanks.



- 1.4.3 The supply to the close field of the valve is derived from the main DC bus via the relay normally closed contacts of a by-pass flight position reset relay and a F/P by-pass relay. The by-pass relay is energized by a signal from the collector tank fuel low level control circuit. When energized, this relay completes a supply circuit to the FUEL PROP indicator light on the master warning system indicator panel and transfers the by-pass valve supply circuit from the close field to the open field. The FUEL PROP warning light which is common to both the L & RH sub-systems, and the F/P by-pass open field circuit, will remain energized, due to a self holding circuit completed by the F/P by-pass relay when energized.
- 1.4.4 The self holding circuit is supplied from the main DC bus via the relay normally closed contacts of the low level sensing relay and the relay closed contacts of the F/P by-pass locking control relay.
- 1.4.5 The supply to the operating coil of the F/P by-pass locking control relay is routed from the emerg. DC bus via the nose U/C scissor switch, so that the holding circuit is inoperative when the aircraft weight is on the U/C.
- 1.4.6 This is necessitated by the fact that on initial switch-on of aircraft power, the reference thermistor (See para 1.2.7) will, prior to heat-up, be of sufficient resistance to unbalance the bridge and initiate a FUEL LOW warning signal and consequent opening of the F/P by-pass valve, and due to the self holding circuit this condition would remain until aircraft power was switched off.
- 1.4.7 The flow proportioner by-pass valve and the associated by-pass relay and by-pass flight position reset relay will be deleted upon the introduction of the C.G. system.

#### 1.5 Crossfeed Control Circuits

1.5.1 The fuel crossfeed consists of one electrically actuated crossfeed valve and two electrically actuated isolating valves, one each of the latter for the LH and theRH fuel sub-systems. The electrical control circuits are interconnected in such a manner that when the crossfeed valve is open, the LH or the RH sub-system isolating valve is closed. Alternatively, if both isolating valves are open the crossfeed valve is closed. The crossfeed selection is made on a switch, marked LH ONLY - NORMAL -RH ONLY, located in the front cockpit on the LH console panel El4.



- 1.5.2 When the cross-feed selector switch is in either the LH ONLY or RH ONLY position, one of two isolating relays is energized. This action completes a supply circuit to close the isolating valve of the hand opposite to that selected. Simultaneously a supply circuit is completed to open the cross-feed valve. When the selector switch is in the NORMAL position, the isolating relays are de-energized and complete supply circuits which open the isolating valves and close the cross-feed valve.
- 1.5.3 The power supply for the cross-feed valves and the isolating valves is derived from the main DC bus. The power supply for the fuel shut-off relays is derived from the emergency DC bus.

## 1.6 Low Press Cock Control Circuits

- 1.6.1 Independent, electrically identical low pressure cock control circuits are provided for the LH and RH sub-systems.

  The following description applies to each hand.
- 1.6.2 The engine fuel feed can be shut off by an electrically, actuated low pressure cock fitted in the fuel delivery line upstream of the engine fuel connection. The electrical circuit is controlled by a double-pole selector switch, marked LP FUEL COCKS, located in the front cockpit on the LH console panel E14.
- 1.6.3 With the switch selected to NCRMAL, the LP cock is in the open position and it is retained in this position by a guard which prevents inadvertent selection of the switch to OFF.

  When the switch is in the NORMAL position, a supply circuit derived from the emergency DC bus is completed via the switch contacts to the "open" field of the low pressure cock.

  When the guard is raised and the switch set to the OFF position, a supply derived from the battery bus is completed via the switch contacts to the "close "field of the low pressure cock, shutting off the L.P. cock.

#### 1.7 Refuelling Control Circuits

1.7.1 The refuelling control circuits provide for checking the shut-off and level sensing valves for serviceability before refuelling and permit control of full or partial refuelling operations. During full refuelling, the flow proportioner by pass valve is open. This permits fuel to by pass the flow proportioner unit and fill the tanks at random rates. A level sensing valve and a refuelling shut-off valve are incorporated in each tank and operate to discontinue refuelling of each tank as it becomes full. During partial refuelling the flow proportioner by pass valve is closed and the fuel is directed through the flow proportioner unit which distributes the fuel proportionately among all tanks.



- 1.7.1 (continued)
  - The refuelling operation is stopped when the desired fuel load, as indicated by the fuel quantity indicator in the front cockpit, is reached.
- 1.7.2 The control and selector switches for the circuits are mounted on the refuel and test panel and on the relevant LH or RH refuel panel.
- 1.7.3 Mounted on the refuel and test panel are a REFUELLING MASTER switch and a REFUEL selector switch marked FULL-PARTIAL SEL # 1 SEL #2. These switches are common to the LH and the RH sub-systems.
- 1.7.4 Mounted on each refuel panel are a REFUEL CONTROL switch and seven green coloured TANK INDICATOR lights.
- The refuelling control circuits are inoperative until the 1.7.5 double-pole single throw REFUELLING MASTER switch, which is marked ON-OFF and DEFUEL, is selected to ON. When the switch is selected to ON a supply circuit is completed, via the contacts of one pole, to the FUEL PROP indicator light mounted on the master warning system indicator panel. This serves as a safety measure to ensure that the switch is reselected to OFF and DEFUEL when refuelling operations are complete. As an additional safety measure, a mechanical stop is fitted on the inner face of the access door of the refuel and test panel. The stop prevents closing and securing the access door if the REFUELLING MASTER switch is left in the ON position. The remaining pole of the REFUELLING MASTER switch completes a supply to the following circuits of the LH and the RH sub-systems:
  - 1.7.5.1 The coil of the control relay of the collector tank fuel low level circuit.
  - 1.7.5.2 The coil of the circuit control relay of the flow proportioner unit by pass valve.
  - 1.7.5.3 The coil of a refuel control relay.
  - 1.7.5.4 The refuel selector.
  - 1.7.5.5 The fourteen refuel indicator lights.
- 1.7.6 The power supply to the collector tank fuel low level circuit is interrupted when the low level sensing relay is energized, by selection of the refuelling master switch to ON.

  This is done to prevent the circuit exercising control over the by-pass relay.



- 1.7.7 Energizing the by-pass flight position reset relay will interrupt the F/P by-pass relay holding circuit, if completed, and re-route the flow proportioner by-pass valve supply circuit via the relay normally closed contacts of a full and partial refuel relay to the per "field of the flow proportioner by-pass valve. When the refuel selector switch is set to either of the partial refuel positions which are interconnected, the partial refuel relay is energized. This transfers the supply from the by-pass valve.
- 1.7.8 The refuel control relay, when energized, completes a supply circuit to the refuel control switch, the absolute pressure relief valve and the differential pressure relief overide valve which is common to the LH and the RH sub-systems.

  The pressure relief valves vent the fuel tanks during refuelling. The REFUEL CONTROL switch, when selected to ON, completes the supply to the level sensing valves, one of which is fitted in each fuel tank.
- 1.7.9 When a REFUEL-FULL operation is selected, the refuel indicator lights will illuminate when their particular tank is full.

  The circuits to the indicator lights are controlled by microswitches fitted integrally in each refuelling shut-off valve. For a pre-check of the system before refuelling, refer to para. 4.6.2. Full refuelling operation test.
- 1.7.10 Access to the refuelling adaptors is gained by releasing the relevant LH or RH refuelling access door. When either panel is released, it permits a micro-switch to close and complete a supply circuit to the FUEL PROP indicator warning light.

#### 1.8 C.G. Circuits

1.8.1 In addition to the components mentioned in the preceding descriptions which are deleted or introduced by the conversion from the flow proportioning system; to the C.G. system, electrical circuits are installed and connected to certain components in the fuel tanks. These circuits include seven capacitance units fitted in each sub-system collector tank, and two-fuel/no-air valves and a fuel level sensor fitted in each storage tank, with the exception of tank No. 4 which is provided with one fuel/no-air valve and one fuel level sensor.

#### 2. CROUND EQUIPMENT

2.1 Air Conditioner and Generator AC.



### 3. PREPARATION FOR TESTS

These tests should be carried out in conjunction with the airframe/engine technician and Maintenance Instructions Report 71/MAINT 16/3 Fuel System-Refuelling and Defuelling and 71/MAINT 16/4 Fuel System - Fuel Transfer.

- 3.1 Attach the air conditioner and generator AC to the aircraft.
- 3.2 Ensure that the aircraft static grounding cable is securely attached, to the aircraft and to the appropriate grounding point.
- 3.3 Have the air conditioner and generator AC unit started and switch on the supply to the aircraft.

## 4. FUNCTION TESTS

Refer to the appropriate Maintenance Instructions Report where the tests call for a change in tank fuel level. i.e. 71/MAINT 16/3 Refuel and Defuel - 71/MAINT 16/4 - Fuel Transfer.

#### 4.1 Fuel Low Level Warning Test

#### NOTE

For the tests outlined in the following paras 4.1 and 4.3. The nose leg scissor micro-switch must be unactuated.

- 4.1.1 Ensure that the current limiter LOW LEVEL, L located on panel E20, is serviceable.
- 4.1.2 Select the MASTER ELEC. switch to the ON position.
- 4.1.3 Select the REFUELLING MASTER switch, located on panel E21, to the OFF and DEFUEL position.
- 4.1.4 Have the level of fuel in the left #5 fuel tank reduced until the warning lights FUEL LOW and AMBER MASTER WARNING, located in the pilot's cockpit, are illuminated.

  This should occur when the level of fuel reaches approximately 65 percent of full tank capacity. The proportioner by-pass valve should move to the open position and the FUEL PROP warning light should illuminate.
- 4.1.5 Have the #5 LH fuel tank filled. The FUEL LOW warning light should go out. The proportioner by-pass valve should close, and if either the L or RH two point refuelling doors are open the FUEL PROP warning light will remain illuminated.



- 4.1.6 Close both the L & RH two point refuelling doors and ensure the refuelling master switch is selected to OFF and DEFUEL, the FUEL PROP warning light should go out.
- 4.1.7 Select the MASTER ELEC switch to the OFF position.
- 4.1.8 Carry out the above procedure for the right low level sensing, reading Right for Left.

### 4.2 Fuel Transfer Pump Test

- 4.2.1 Ensure that the current limiters LOW LEVEL L, A/C FUEL DIFF PRESS and TANK NO. 1 PUMP and TANK NO. 2 PUMP, located on panel E20, are serviceable.
- 4.2.2 Ensure that tanks #1 and #2 are full.
- 4.2.3 Select the MASTER ELEC switch to the ON position.
- 4.2.4 Select the CRND TEST SAFETY OVERRIDE switch, located on E21 panel, to the TEST position.
- 4.2.5 Press the Tank #1 and Tank #2 press-to-check indicators located on E21 panel. Both indicators should illúminate.
- 4.2.6 Release the press-to-check indicators. The indicator lights should go out. Select the CRND TEST SAFETY OVERRIDE switch to the NORMAL position.
- 4.2.7 Have the fuel removed from the #1 and #2 fuel tanks.
- 4.2.8 Select the CRND TEST SAFETY OVERRIDE switch to the TEST position. The fuel transfer pump should not operate if the low level cut-off system is operating correctly.
- 4.2.9 Select the MASTER ELEC switch to the OFF position.

#### 4.3 Fuel Proportioning Warning Test

The warning light FUEL PROP should be illuminated by any of the following:

#### 4.3.1 Refuelling Master Switch

- 4.3.1.1 Ensure that the current limiter A/C FUEL DIFF PRESS located on panel E20, is serviceable.
- 4.3.1.2 Select the MASTER ELEC. switch to the ON position.
- 4.3.1.3 Select the REFUELLING MASTER switch, located on panel E21, to the ON position. The warning light FUEL PROP should be illuminated.



- 4.3.1.4 Select the REFUELLING MASTER switch to the OFF and DEFUEL position. The FUEL PROP warning light should go out.
- 4.3.1.5 Select the MASTER ELEC' switch to the OFF position.

#### 4.3.2 Fuel Pump Pressure Switches (Tank #1 and Tank #2)

The FUEL PROP warning light should be illuminated when there is no fuel pressure from Tank No. 1 fuel pump but the pump relay is de-energized to signify pump operation.

- 4.3.2.1 Ensure that #1 and #2 fuel tanks are full.
- 4.3.2.2 Remove the three current limiters, Tank No. 1 PUMP from panel E20.
- 4.3.2.3 Ensure that the current limiter REFUEL & TEST PANEL, located on panel E20, is serviceable.
- 4.3.2.4 Select the MASTER ELEC switch to the ON position.
- 4.3.2.5 Select the CRND TEST SAFETY OVERIDE switch, located on panel E21, to the TEST position, The warning light FUEL PROP should be illuminated.
- 4.3.2.6 Select the CRND TEST SAFETY OVERIDE switch to the NORMAL position. The warning light FUEL PROP should go out.
- 4.3.2.7 Select the MASTER ELEC switch to the OFF position.
- 4.3.2.8 Replace the three TANK No. 1 PUMP current limiters.
- 4.3.2.9 Carry out the above procedure for No. 2 fuel pump reading "No. 2" for "No. 1". For 4.3.2.3 read A/C FUEL DIFF PRESS.

### 4.3.3 Low Level Control Units

The fuel proportioner by-pass valve should be in the open position and the FUEL PROP warning light should illuminate on a fuel low level condition.

- 4.3.3.1 Ensure that the current limiter LOW LEVEL L, located on panel E20, is serviceable and withdraw the current limiter LOW LEVEL R.
- 4.3.3.2 Select the MASTER ELEC, switch to the ON position.
- 4.3.3.3 Have the fuel level in the left hand #5 fuel tank reduced.



- 4.3.3.4 When the low level control unit senses the fuel low level condition, the warning light FUEL PROP should be illuminated.
- 4.3.3.5 The fuel proportioner by pass valve should remain in the open position and the warning light FUEL PROP should illuminate.
- 4.3.3.6 Withdraw the current limiter LOW LEVEL L, and replace the current limiter LOW LEVEL R.
- 4.3.3.7 Carry out the above procedure for the right low level control unit, reading "Right" for "Left".
- 4.3.3.8 Replace the current limiter LOW LEVEL L.

### 4.3.4 Two Point Refueling Doors (L and R)

When a two point refueling door is opened, the warning light FUEL PROP should be illuminated.

- 4.3.4.1 Ensure that the L & RH #5 tanks are full.
- 4.3.4.2 Ensure that the current limiter A/C FUEL DIFF PRESS, located on panel E20, is serviceable.
- 4.3.4.3 Open the left two point refueling door. The warning light FUEL PROP should be illuminated.
- 4.3.4.4 Close the two point refueling door. The warning light FUEL PROP should go out.
- 4.3.4.5 Carry out the above procedure for the right two point refueling door reading "Right" for "Left".

#### 4.4 Relay Holding Circuit Test. (Ref. paras. 1.4.3 to 1.4.5)

(To be carried out with the aircraft on jacks and raised sufficiently to ensure actuation of the nose leg scissors microswitch)

- 4.4.1 Ensure #1 and #2 fuel tanks are full.
- 4.4.2 Ensure that the current limiter LOW LEVEL L located on panel E20 is serviceable.
- 4.4.3 Select the MASTER ELECTS SW. to the ON position.
- 4.4.4 Have the fuel level in the LH #5 tank reduced sufficiently to ensure operation of the low level sensing circuit.

  (Below 65% of full tank capacity)
- 4.4.5 The warning lights FUEL LOW and FUEL PROP should illuminate and the LH flow proportioner by pass valve should open.



- 4.4.6 Have the LH #5 tank filled, and the FUEL LOW warning light should go out, the FUEL PROP warning light should remain illuminated and the L proportioner by-pass valve should remain open.
- 4.4.7 Lower the aircraft to the "weight on wheels" position and the L flow proportioner by-pass valve should close, and with the L two point refuelling door closed and the REFUEL MASTER switch selected to OFF and DEFUEL the warning light FUEL PROP should be out.
- 4.4.8 Select the MASTER ELEC , switch to the OFF position.
- 4.4.9 Repeat the procedures outlined in paras 4.4.2 to 4.4.8 reading RH for LH.

#### 4.5 Fuel Crossfeed Test

- 4.5.1 Ensure that the circuit breaker FUEL CROSSFEED, located on panel El, is closed.
- 4.5.2 Ensure that the current limiters, AIR RELIEF OVERIDE and FUEL CROSSFEED, located on E20 panel, are serviceable.
- 4.5.3 Select the MASTER ELEC's switch to the ON position.
- 4.5.4 Select the FUEL CROSSFEED switch, located in the pilot's cockpit, to the LH only position.
- 4.5.5 Check that the RH system isolating valve position indicator moves to the CLOSED position, the LH system isolating valve position indicator remains in the OPEN position and the crossfeed valve position indicator moves to the OPEN position.
- 4.5.6 Select the FUEL CROSSFEED switch to the RH ONLY position.
- 4.5.7 Check that the RH system isolating valve position indicator moves to the OPEN position, the LH system isolating valve position indicator moves to the CLCSED position and the crossfeed valve position indicator stays in the OPEN position.
- 4.5.8 Select the FUEL CROSSFEED switch to the NORMAL position.
- 4.5.9 Check that the RH system isolating valve position indicator stays in the OPEN position, the LH system isolating valve position indicator moves to the OPEN position and the crossfeed valve position indicator moves to the CLOSED position.
- 4.5.10 Select the MASTER ELEC switch to the OFF position.

#### 4.6 Low Pressure Cock Valve Test

- 4.6.1 Ensure that the circuit breakers L/P COCK L & R, located on El panel, are closed.
- 4.6.2 Select the MASTER ELEC switch to the ON position.
- 4.6.3 Lift the left L/P FUEL COCKS switch guard and select the switch to the forward position.
- 4.6.4 Ensure that the left low pressure cock valve indicator moves to the CLOSED position.
- 4.6.5 Select the left L/P FUEL COCKS switch and guard to the OFF (aft) position.
- 4.6.6 Ensure that the left low pressure cock valve indicator moves to the OPEN position.
- 4.6.7 To function test the right L/P fuel cock, repeat Paras.
  4.6.3 to 4.5.6 substituting the "Right" for "Left".
- 4.6.8 Select the MASTER ELEC switch to the OFF position.

#### 4.7 Refuelling and Defuelling Tests

The following tests should be carried out in conjunction with the airframe mechanic.

#### 4.7.1 Refuelling Shut-Off Valve Lights - Functional Tests

- 4.7.1.1 Check that the current limiter REFUEL & TEST PANEL, located on E20 panel, is serviceable.
- 4.7.1.2 Select the MASTER ELEC switch to the ON position.
- 4.7.1.3 Select the REFUELLING MASTER switch, located on E21 panel, to the ON position. The TANK INDICATOR: lights on E23 and E24 panels, located in the main wheel wells, should be illuminated.
- 4.7.1.4 Select the MASTER EIEC switch to the OFF position.

### 4.7.2 Full Refuelling - Operation Test

- 4.7.2.1 Check that the current limiters REFUEL & TEST PANEL, A/C FUEL DIFF. PRESS, and F.P.U. BYPASS L & R, located on E20 panel, are serviceable.
- 4.7.2.2 Select the MASTER ELEC switch to the ON position.



- 4.7.2.3 Select the REFUELLING MASTER switch, located on E21 panel, to the ON position.
- 4.7.2.4 Select the REFUEL selector switch, located on E21 panel, to the FULL position. The indicator lights on E23 and E24 panels and the L or R a/c fuel proportioning should be illuminated and the fuel proportioner by-pass valves should be in the BY-PASS position.
- 4.7.2.5 Have fuel pressure at a maximum of 60 psig applied at the LH refueling adaptor. The LH indicator lights, located on E23 panel, should stay illuminated, or, on the first refueling of the aircraft go out for a few seconds and then all go on again.
- 4.7.2.6 With all the LH indicator lights illuminated, select the LH REFUEL CONTROL switch, located on E23 panel, to the ON position. All the LH indicator lights should go out.
- 4.7.2.7 Select the LH REFUEL CONTROL switch to the OFF position. Within a few seconds all the LH and indicator lights should be illuminated.
- 4.7.2.8 When all the LH indicator lights become illuminated, select the LH REFUEL CONTROL switch to the ON position. Refueling of the LH sub-system can now be commenced at full pressure.
- 4.7.2.9 When the LH fuel tanks are full, the LH indicator lights should gome on.
- 4.7.2.10 Have the fuel pressure at the LH refuelling adaptor relieved, then select the LH REFUEL CONTROL switch to the OFF position.
- 4.7.2.11 Repeat the above procedure for the RH subsystem reading "RH" for LH" and "E24" for E23".
- 4.7.2.12 Select the MASTER ELEC switch to the OFF position.

#### 4.7.3 Partial Refuelling - Operation Test

- 4.7.3.1 Carry out the procedures outlined in Paras 4.6.2.1 to 4.6.2.7 excepting para 4.6.2.4.
- 4.7.3.2 Select the REFUEL switch, located on E21 panel, to the PARTIAL SEL #1 or SEL #2 position. The proportioner by-pass valve should be in the CLOSED position. (Visual Check). The required amount of fuel as shown on the fuel quantity indicator may now be pumped into the LH sub-system.



4.7.3.3 Carry out the procedure in Para 4.6.3.2 for the RH sub-system.

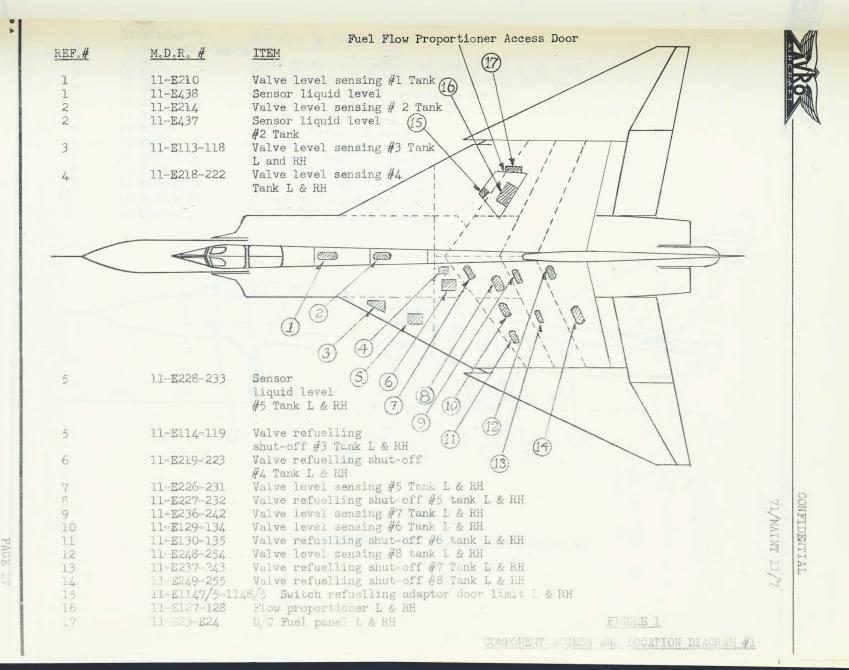
### 4.8 Differential Air Pressure Relief Override Valve Test

- 4.8.1 Ensure that the current limiter A/C FUEL DIFF. PRESS, located on panel E20, is serviceable.
- 4.8.2 Select the REFUELLING MASTER switch to the ON position.

  The operation of the differential air pressure relief and absolute air pressure relief overide valves should be audible.
- 4.8.3 Select the REFUELLING MASTER switch to the OFF and DEFUEL position. An audible click should be heard from the valve when they are de-energized.

## 4.9 By-Pass Overide Valve Test (Tanks #1 and #2)

- 4.9.1 Ensure that the current limiters REFUEL & TEST PANEL and A/G FUEL DIFF. PRESS, located on panel E20, are serviceable.
- 4.9.2 Select the MASTER ELEC switch to the ON position.
- 4.9.3 Select the REFUELLING MASTER switch, located on panel E21, to the ON position. The operation of the by-pass overide valve to the de-energized position should be audible.
- 4.9.4 Select the MASTER ELEC and the REFUELLING MASTER switches to the OFF position.



CONFIDENTIAL

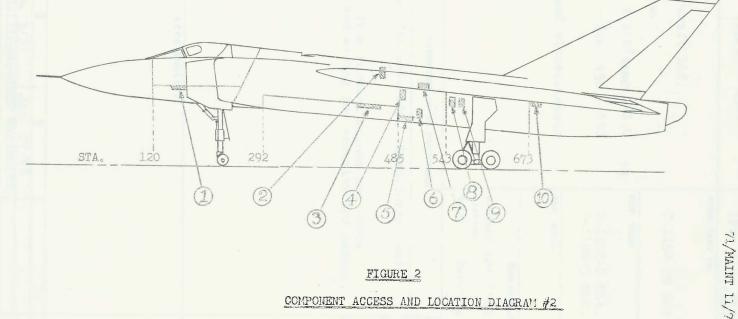


FIGURE 2

COMPONENT ACCESS AND LOCATION DIAGRAM #2

PAGE

MAINTENANCE	DATA RECORD	SYSTEM	REF. NO.
AVRO AIRCRAFT LTD.	Engineering Div.	ELECTRICS	11-25
DISTRIBUTION: STANDARD + S. Brown K. Knowlton	A/C TYPE - ARROW 1 EFF. A/C - 25201	COMPONENT Panel - Main (For flow Pr System	
MANUFACTURER'S PART NO. N/	A	AVRO PART NO.	
MANUFACTURER'S NAME AVPO		7-1154-99 Sh	t. 1 & 2
envelope size 40.0 % × 20	.0" x 6.0" weight 41.0 LB.	REF. DWGS.	
LOCATION MISSILE Bay Ro	oof - Sta. 436 - 458	7-1100-2 Sht 7-1100-3 Sht	
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-	AVRO AIRCRAFT		Engineering Div.	NORTH CONTRACTOR	
DIST	RIBUTION: STANDAR	₹D +	A/C TYPE - Arrow 1	COMPONENT	
	6. Brown 6. Knowlton		EFF. A/C - 25201	Relay - By-Pass Reset	
MANT	UFACTURER'S PART	NO.		AVRO PART NO.	(Ballyon)
MANU	UFACTURER'S NAME			MS = 25	024~1
	OCAN SPEC.	E.O. N			
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APPROVED

R.F. Reid

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SYSTEM ACCESS MAINTENANCE DATA RECORD ELECTRICS AVRO AIRCRAFT LTD. Engineering Div. DISTRIBUTION: STANDARD + A/C TYPE - Arrow 1 COMPONENT S. Brown Relay - F/P By-Pass EFF. A/C -25201 K. Knowlton AVRO PART NO. MANUFACTURER'S PART NO. MS-25024-1 MANUFACTURER'S NAME AVROCAN SPEC. E.O. NO. REF. DWGS. ENVELOPE SIZE 2.625" x 2.68" x 3.3" WEIGHT 0.8 CH USE 7-1100-2 sht 19 7-1100-3 sht 6 LOCATION Mounted on panel E5 - located in the missile , bay. FUNCTION Energized when the No. 5 tank low level control unit is actuated by the No. 5 tank low level signal REF. M.D.R. unit. MENT RELIABILITY OVERHAUL LIFE 1500 WASTAGE Q.T.R.

REF. NO.

11-E5/7

11-E5/8

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1 x 25				7
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	ISSUE	1		
	DATE	25 Nov. 57		
	COMPILED	WO2 Wentworth		
	CHECKED	K.P. Lowe		
	APPROVED	R.F. Reid		

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2. Remove 4 mot	unting bolts.		Remove and repla	ace 1 x 2	5	

MAINTENANCE DATA RECORD ELECTRICS 11-E5/15 ACCESS AVRO AIRCRAFT LTD. Engineering Div. COMPONENT DISTRIBUTION: STANDARD + A/C TYPE -Arrow 1 S. Brown Relay - Partial Refuel EFF. A/C -25201 K. Knowlton AVRO PART NO. MANUFACTURER'S PART NO. MS 25024-1 MANUFACTURER'S NAME AVROCAN SPEC. E.O. NO. REF. DWGS. ENVELOPE SIZE 2.625" x 2.68" x 3.3" WEIGHT 0.8 LB. 7-1100-2 sht 19 7-1100-3 sht 6 CH USE LOCATION Mounted on panel E5 - located in the missile bay. FUNCTION Energized when the refuelling selector REF. M.D.R. switch is selected to the PARTIAL #1 or #2 position. RELIABILITY MENT OVERHAUL LIFE 1500 HRS. WASTAGE Q.T.R. INSPECTION MEN × MINUTES OPERATION TO BE PERFORMED PERIOD ACTUAL MEN X MINUT EST. ACT Function test. (See Maintenance Instructions Report On Refuel 1 x 2 71/MAINT 11/7 1 x 25 ACCESSIBILITY Unobstructed With missile pack removed. ISSUE DATE 25 Nov. 57 COMPILED W02 Wentworth K.P. Lowe CHECKED

REF. NO.

SYSTEM

APPROVED R.F. Reid

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SYSTEM REF. NO. MAINTENANCE DATA RECORD ACCESS 11-E5/9 11-E5/10 ELECTRICS AVRO AIRCRAFT LTD. Engineering Div. DISTRIBUTION: STANDARD + A/C TYPE - Arrow 1 COMPONENT S. Brown Relay - Pump Control Fuel EFF. A/C -K. Knowlton 25201 Tanks No. 1 & 2 AVRO PART NO. MANUFACTURER'S PART NO. MANUFACTURER'S NAME MS 25024-1 AVROCAN SPEC. E.O. NO. REF. DWGS. ENVELOPE SIZE 2.625" x 2.68" x 3.3" WEIGHT 0.8 LB. H USE 7-1100-2 sht 19 LOCATION Mounted on panel E5 located in the missile 7-1100-3 sht 6 bay . FUNCTION When energized the supply circuit to the No. REF. M.D.R. 1 & 2 fuel tank pumps is opened. ENT RELIABILITY OVERHAUL LIFE HRS. 1500 WASTAGE Q.T.R. INSPECTION MEN × MINUTES OPERATION TO BE PERFORMED PERIOD ACTUAL MEN X MINUT EST. ACTO Function test. (See Maintenance Instructions Report 25 Hrs. 71/MAINT 11/7) 1 x 25 ACCESSIBILITY Unobstructed with missile pack removed. ISSUE 25 Nov. 57 DATE COMPILED WO2 Wentworth CHECKED K.P. Lowe APPROVED R.F. Reid

		LUBRICAT	ION NIL	THE SWALL SEE THE LAND.	JAN AND
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K. Knowlton AVRO PART NO. MANUFACTURER'S PART NO. MANUFACTURER'S NAME MS 25024-2 AVROCAN SPEC. E.O. NO. REF. DWGS. ENVELOPE SIZE 3.312" X 3.00" X 2.687" WEIGHT 7-1154-99 NCH USE 7-1100-3 Sht. 6 LOCATION 7-1100-2 Sht. 19 Mounted on panel E5 in Missile Bay FUNCTION Is energised by operation of the pilots external 11-E5 stores emergency jettison switch When energised completes the DC supply to the ext. tank jettison RELIABILITY solenoid, breaks the supply to the ext. tank OVERHAUL LIFE 1500 HRS. disconnect, completes its own hold-in circuit. Is WASTAGE inoperative with aircraft on ground. Q.T.R. INSPECTION MEN × MINUTES OPERATION TO BE PERFORMED PERIOD EST. ACTUAL MEN X MINUT EST. ACT Primary See ref. M.D.R. 11-E5 1 x 25 periodic (25 Hrs) Function check (pending) ACCESSIBILITY Remove missile pack. ISSUE DATE 6 Dec. 57 COMPILED K.P. Lowe WO<sup>2</sup> Wentworth APPROVED R.F. Reid

SYSTEM

COMPONENT

ELECTRICS

Relay - Jettison

REF. NO.

11-E5/17

ACCESS

MAINTENANCE

AVRO AIRCRAFT LTD.

DISTRIBUTION: STANDARD +

S. Brown

DATA

RECORD

Engineering Div.

A/C TYPE - Arrow 1

EFF. A/C - 25201

PMENT

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SYSTEM MAINTENANCE CESS DATA REF. NO. RECORD ELECTRICS 11-E5/24 AVRO AIRCRAFT LTD. Engineering Div. DISTRIBUTION: STANDARD + A/C TYPE - Arrow 1 COMPONENT S. Brown EFF. A/C - 25201 Relay - Full and Partial Refuel K. Knowlton AVRO PART NO. MANUFACTURER'S PART NO. MANUFACTURER'S NAME MS 25024-2 AVROCAN SPEC. E.O. NO. REF. DWGS. ENVELOPE SIZE 3.312" x 3.00" x 2.687" WEIGHT .80 USE 7-1154-99 7-1100-3 Sht. 6 7-1100-2 Sht. 19 Mounted on panel E5 in Missile Bay. FUNCTION REF. M.D.R. Is energised from the main DC bus by selection 11-E5 of the refuel master safety swith to ON. Completes a DC supply to the L and RH level RELIABILITY sensing valves and the absolute and differential OVERHAUL LIFE 1500 HRS. air pressure relief override valves, it breaks the WASTAGE DC supply to the #1 and 2 by-pass override valves. .596 INSPECTION MEN X MINUTES OPERATION TO BE PERFORMED MEN X MINUTE PERIOD EST. ACTUAL EST. ACTU See ref. M.D.R. 11-E5 Primary Function check (Ref. Maintenance Instructions Report 71/Maint-16/3) Refuel Fuel system/Refuel and defuel. ACCESSIBILITY Remove missile pack. x 12 ISSUE DATE 6 Dec. 57 COMPILED K.P. Lowe CHECKED WO<sup>2</sup> Wentworth APPROVED R.F. Reid

WALL	AR	ANTTHI	ION NIL	LUBRICATIO			
AVRO A	DEEL	ACCESS	FREQUENCY	SPECIFICATION	ATERIAL	ON	APPLICATION
DETRIBUTION:	A present		A BETTOIN	62 L W77	YHEROT		
s, Brown	1.8		S - SAMPLE	AUT TOSAS	TEN - VI	Televisia.	
I. Knowl		HAS FARM					
MANUFACTURES	Settle State						DETAILS:
MANUPACTURES							
		1					
ATROCAN EPEC.	an exception						
INTELOPE SIZE		9271 - 1220	EQUIPMENT	GROUND SUPPORT	1000		
		ENCH USE	SPECIAL TOOLS FOR BI		OR AIRCRAFT	ECIAL TO	SPECIA
LOCATION MOL			and account of the form		122-7	. hit.	er . h
bey.							
nuction Whe			Nil	970		N	
switch to							
nucubn When switch to 1,2 & 5 te		IMDMENT	CPOUND HANDI INC. FOR	- 400	NG EQUIPMENT	GROUND	GRO
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	eda			a sulf exesses II			
		7/7/04	Maintenance platform 4G	ator AC	r and gener	conditi	Air con
		1/1590	maintenance platform 4G	audi Ad	and gonor	oomar or	
MIPECTION	7111111111		T JONE ASSOCI	GENERAL III OT		CRADIE	DITERCHANCEA
MPECTION	_	MEN X	STRUCTIONS	REMOVAL INST			INTERCHANGEAE
	MINUTES	MEN X	TRUCTIONS	REMOVAL INST			INTERCHANGEAE REPLACEABLE
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PERMO	_		STRUCTIONS	REMOVAL INST			
PERMO	_		STRUCTIONS	REMOVAL INST			
PERMO	_		STRUCTIONS	REMOVAL INST			
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BENCH USE

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MEN × MINUTE

EST. ACTO

1 x 14

ACCESS

MAINTENANCE AVRO AIRCRAFT LTD.		SYSTEM ELECTRICS	REF. NO. 11-E5/40
DISTRIBUTION: STANDARD +	A/C TYPE - Arrow 1	COMPONENT	
S. Brown ; K. Knowlton	EFF. A/C - 25201	Relay - Low Leve	l Sensing
ANUFACTURER'S PART NO.		AVRO PART NO.	
MANUFACTURER'S NAME	*	CS-R-12	22
AVROCAN SPEC. E.	0. NO.		
ENVELOPE SIZE 2.125" x 2.6"	x 2.34" WEIGHT .44 LB.	REF. DWGS. 7-1100-	2 sht 19
		7-1100-	3 sht 6
bay.	) - located in the missile		
	selecting the Refuel Master supply circuit to the No. vel control units.	REF. M.D.R.	
		RELIABI	LITY
		OVERHAUL LIFE 15	00 няз.
		Q.T.R.	

INSPECT	ION	OPERATION TO BE PERFORMED		
PERIO	D	OF BRITISH TO BE FERFORMED	EST.	ACTUAL
25 Hrs	connec	for security of mounting and electrical ctions.  ion test. (See Maintenance Instructions t 71/MAINT 11/7)	2 x 5	
		ACCESSIBILITY		
		tructed. missile pack removed.		
SSUE	1			
DATE	25 Nov. 57			
COMPILED	WO2 Wentworth			
CHECKED	K.P. Lowe			

		LUBRICAT	ION NIL	AMSTREAM	141	NTE
APPLICATION	MATERIAL	SPECIFICATION	FREQUENCY	ACCESS	1700	AIRCRAF
			-316224	MIXONAL TO THE RES	STENOTION	STANDA
n planes and the			DOMESTIC STREET		i, Bow	lton -
DETAILS:				MARKA PROPERTY AND	BIFACTURE	ER'S PART
					emetore	r's name
					INCU SPEC	
		GROUND SUPPORT			THE SET I	2.12
SPECIAL T	OOLS FOR AIRCRAF	r USE	SPECIAL TOOLS FOR	BENCH USE	zanov ykona	nted or
	NIL		NIL		Į,	
	.124				ind soit	tch, co
GROUND	TESTING EQUIPMEN	ır	GROUND HANDLING E	QUIPMENT	a etergi ia elose	ze the d posit
mir - 7/2	THE PLANE				-	
Air Conditions	er and Generato	n AC	Small Maintenance Platform			
MII VOITAL SIOTE	and denotate	1 40	raincenance Flatiorm		3FECTION	T
INTERCHANGEABLE	х	REMOVAL IN	TRUCTIONS	MEN × MINUTES	728000	
REPLACEABLE			SIKUCIIUKS			_
l. Disconnect	6 electrical c		STRUCTIONS	EST. ACTUAL	3327	A
	6 electrical c unting bolts.		ALCOHOLOGICA COLORES (TALE)		in the second	71 71
l. Disconnect	6 electrical cunting bolts.		Remove and replace	EST. ACTUAL	Ex.	77
l. Disconnect	6 electrical cunting bolts.		ALCOHOLOGICA COLORES (TALE)		in	71
l. Disconnect	6 electrical cunting bolts.		ALCOHOLOGICA CONTRACTOR (TOLER TOLER		in the second	77
l. Disconnect	unting bolts.	onnections.	Remove and replace			71
l. Disconnect	unting bolts.	onnections.	ALCOHOLOGICA CONTRACTOR (TOLER TOLER		in the second	71.
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l. Disconnect	unting bolts.	onnections.	Remove and replace		itar	Unc
l. Disconnect	unting bolts.	onnections.	Remove and replace		and and a	Tipe Tipe
l. Disconnect	unting bolts.	onnections.	Remove and replace			Uno Wit

SYSTEM MAINTENANCE DATA RECORD REF. NO. 11-E5/41 ELECTRICS 11-E5/37 AVRO AIRCRAFT LTD. Engineering Div. DISTRIBUTION: STANDARD + COMPONENT A/C TYPE - Arrow 1 S. Brown EFF. A/C - 25201 Relay - Fuel Shut-Off K. Knowlton AVRO PART NO. MANUFACTURER'S PART NO. CS-R-122 MANUFACTURER'S NAME AVROCAN SPEC. E.O. NO. REF. DWGS. 7-1100-2 sht 19 ENVELOPE SIZE 2.125" x 2.6" x 2.34" WEIGHT 0.44 LB. 7-1100-3 sht 6 CH USE LOCATION Mounted on panel E5 - located in the missile bay. REF. M.D.R. FUNCTION When energized by a selection of the cross feed switch, complete an electrical supply circuit to energize the fuel system isolating valve to the closed position. RELIABILITY MENT OVERHAUL LIFE 1500 HRS. WASTAGE Q.T.R.

	INSPECT	ON OPERATION TO BE PERFORMED	MEN X M	
MEN × MINUTE	PERIO		EST.	ACTUAL
EST. ACTU		The Carlotte Annual Carlotte A		
	Primary	Function Test. (See Maintenance Instruction 71/MAINT 11/7	ons Report 2 x 5	
x 20				
		ACCESSIBILITY	W2	
		Unobstructed With missile pack removed.		
	ISSUE	1		J
	DATE	25 Nov. 57		
	COMPILED	WO2 Wentworth		
	COMPILED			
	CHECKED	K.P. Lowe		

			ION NIL	334443		NA I
APPLICATION	MATERIAL	SPECIFICATION	FREQUENCY	AC	CCESS	STRIBUTION:
220-00	E Jack - Miles		-3878			j. Gorni S. Brown
DETAILS:	CHAPES				TASAUT PARENTS	ACHICTURER ACHICTURER PRODUCTION OF THE PRODUCTI
RT NO NA	10 LES 10 A	GROUND SUPPORT	EQUIPMENT	125° × 7851.	TERRITORIE	TENE SIZE
SPECIAL TO	OOLS FOR AIRCRAFT	USE	SPECIAL TOO	LS FOR BENCH	USE	ans Hount
NIL		1000	NIL			um Upon ipal from is, it acts
GROUND	TESTING EQUIPMENT		GROUND HAM	NDLING EQUIPME	ENT	ize cockpi gious by-
Air Conditione:	r and Generator	AC	Small Maintenance Pla	atform		
		AND HOLD IN	NOST A SERVICE		2	RING
INTERCHANGEABLE	X					
REPLACEABLE  1. Disconnect 8 2. Remove 2 mot	8 electrical corunting bolts.	mections.	TRUCTIONS	Pincha	MEN × MINUTES  EST. ACTUAL	[cha]
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l. Disconnect 8		mections.	or live mark	ace	EST. ACTUAL	The state of the s
1. Disconnect 8 2. Remove 2 mot		mections.	Remove and repl	and and	EST. ACTUAL	The state of the s
1. Disconnect 8 2. Remove 2 mot		mections.	Remove and repl	and and	EST. ACTUAL	The Car

MAINTE AVRO AIRCRAF		ATA RECORD  Engineering Div.	SYSTEM FUEL SYSTEM	REF.	16-18
A. Cornish S. Brown K.		A/C TYPE - Arrow 1 EFF. A/C - 25201	COMPONENT Switch - Low Leve L & R Ha	11-E	5/67
MANUFACTURER'S PAR  MANUFACTURER'S NAM  AVROCAN SPEC. E362	E Minn. H'Well		AVRO PART NO. 7-1654-	213	
		cocated in missile bay	7-1100- 7-1154-		
signal from t	he liquid leve	l low level warning l sensor in the collector low level warning light	REF. M.D.R.		
		the fuel flow pro- the open position.	OVERHAUL LIFE 150 WASTAGE Q.T.R.Minn. H'Well	0	HRS.
INSPECTION PERIOD		OPERATION TO BE PERFORME	D	MEN X	MINUTES
On Refuel	Chaple that	low level warning light go	oes out as the	ESI.	ACTUAL

	INSPECT	rion	OPERATION	TO BE PERFORMED	MEN X	MINUTES
MEN X MINUD	PERIO	OC.			EST.	ACTUAL
EST. ACT	On Ref		that low level wa etor tank fills	arning light goes out	as the	
1 x 20			NOT will only apply it led below the 70%	f the collector tank ha	as been	
,	Primar Electr		ct for security		1 x 2	
	25 Hou Electr & Airfre	rics Instru	out functional to actions Reports 71	est. See Maintenance 1/MAINT 11/7 and 71/MA	INT 16/4	ng
		<u> </u>	ACCESSIBILIT	тү		
		Unobst	tructed with missi	ile pack lowered.		
	ISSUE	1	2	3		
	DATE	14 Feb. 56	25 June 56	25 Nov.57		
	COMPILED	G. Emmerson	P.A. Bell Sgt	P. A. Bell Sgt		
	CHECKED	G. Emmerson	C. Beanland	J. Brumfit		
				R.F. Reid		

		LUBRICAT	LION NIT	3'3'9'-A h: 3		AND T	HAI
APPLICATION	MATERIAL	SPECIFICATION	FREQUENCY	A	CCESS		AVRO
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DETAILS:						The said	MANUFACTUR
						TO SERVICE OF	WANUPACTUR
							AVROCAN SPE
- 181 to 50	OLL STORY	GROUND SUPPORT		SR.LX Co.	7,12	Value of	envelope si
SPECIAL TO	OOLS FOR AIRCRAF	T USE	SPECIAL T	COOLS FOR BENCH	USE		LOCATION A
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			the Toyal bol too	T mal or the		Will be	it comp
GROUND	TESTING EQUIPME	NT	GROUND H	ANDLING EQUIPMI	ENT		tank pu
i- 0 1:+:	1.0	10		- 12 12 to			opens t shuttin
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uel Quantity I	ndicating Tes	t Set					
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NTERCHANGEABLE	x	REMOVAL IN	STRUCTIONS		MEN X	MINUTES	PERIOD
REPLACEABLE		The state of the s			EST.	ACTUAL	
				And the second			Primary
Teatries 1	Torrow DE mane	1 1	200	100 1100			05.79
Dectrics 1.	Lower E5 pane Disconnect 1	l by removing 2 p	oip pins.	100 1100			
2.	Lower E5 pane Disconnect 1 Remove 4 moun	electrical connec	oip pins. etor.	Eu ara			25 Hour
2.	Disconnect 1	electrical connec	oip pins. tor.	th ard;			4) Hour
2.	Disconnect 1	electrical connec	oip pins. etor.	tu erat eleman			4) Hour
2.	Disconnect 1	electrical connecting bolts.	tor.	th and a			25 Hour
2.	Disconnect 1 Remove 4 moun	electrical connecting bolts.  Remove	etor.		1 x 10		49 Hour
2.	Disconnect 1 Remove 4 moun	electrical connecting bolts.  Remove	etor.				45 Hour
2.	Disconnect 1 Remove 4 moun	electrical connecting bolts.  Remove	etor.				45 Hour
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INSPECTION PERIOD	
Primary	Ins
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MUR	
DYIS	1
	25 Nov. 57
COMPILED	PA DOT
CHECKED	P.A. Bell Sgt
APPROVED	To DI COM 14
SASS	R.F. Reid
	A VIETO

REF. NO. 16-119 SYSTEM MAINTENANCE DATA RECORD FUEL SYSTEM AVRO AIRCRAFT LTD. Engineering Div. 11-E5/77 DISTRIBUTION: STANDARD + A/C TYPE - Arrow 1 COMPONENT 11-E5/78 A. Cornish Switch - Low Level Control Unit EFF. A/C -25201 S. Brown K. Knowlton - R & R Hand AVRO PART NO. MANUFACTURER'S PART NO. SK 62679 MANUFACTURER'S NAME Minn. H'Well Regulator Co. 7-1654-213 AVROCAN SPEC. E 362 E.O. NO. REF. DWGS. ENVELOPE SIZE 5.16" x 3.54" x 2.01" WEIGHT 0.75" estle. 7-1100-2 sh 19 7-1100-3 sh 6 LOCATION Mounted on panel E5 - located in the missile 7-1154-33 bay . FUNCTION Upon receiving a fuel low level signal from REF. M.D.R. the liquid level sensor in No. 1 or 2 fuel tank, 16-96 it completes a supply circuit to energize the tank pump control relay, which, when energized opens the supply circuit to the tank pump, thus RELIABILITY OVERHAUL LIFE 1500 shutting off the pump. HRS. WASTAGE Q.T.RMinn. H'Well - AEX 25154

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MEN X MINUTE

1 x 10

	ON	OPERATION TO BE PERFORMED	MEN X M	MINUTES
PERIO	0		EST.	ACTUA
Primary	T	Inspect for security.	1 x 2	
25 Hour	c	Carry out a functional test. See Maintenance Instructions Reports 71/MAINT 11/7 and 71/MAINT 16/4	Pendin	
	1	A CCESSIBILIT Y		
		Unobstructed with missile pack lowered.		
		Unobstructed with missile pack lowered.		
		Unobstructed with missile pack lowered.		
		Unobstructed with missile pack lowered.		
		Unobstructed with missile pack lowered.		
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ATE	25 Nov.	57		
		57 11 Sgt		
ATE OMPILED	25 Nov. P.A. Be	57 11 Sgt		

	- No.	LUBRIC	ATION NIL	MARCE	BIHIL		NAIN1
APPLICATION	MATERIAL	SPECIFICATION	FREQUENCY		ACCESS		AVRO AIRO
APPLICATION	MATERIAL	SPECIFICATION	HA THEFT I A	1 000		10	offibution: 31.
mil Australia I			200 (10)	sint to an a second			K. Kn
DDD1 W 6							WATER CTURER'S
DETAILS:							NATURACTURER'S
							ANTACTURER
							TROCAN SPEC.
41 11 1		GROUND SUPPO	PT FOIIPMENT	333,7 x 15		р	WELOPE SIZE 2
SPECIAL	TOOLS FOR AIRCRAFT			rools for BENC	CH USE	10	OCATION .
							Mount
	NIL		all then I am I for the	NIL		n	cockp:
	2000			110.11			When se
			entamento or Juliot	o ginom			the emer
GROUN	D TESTING EQUIPMEN	T	GROUND F	HANDLING EQUIPM	MENT		complete
	er and Generator	c AC	Maintenance H	Platform 4G/1	1596		crose 1
Refueler Fuel Quantity	Indicating Test	t Set					
and quarion of	Indicating 165	o Be o					DSPECTION
INTERCHANGEABLE	x	REMOVAL	INSTRUCTIONS		MEN × M	AINUTES	PERIOD
REPLACEABLE	-				EST.	ACTUAL	
20	Lower E5 panel Disconnect 1 e Remove 4 mount	electrical conn	2 pip pins. mector.				Primary
			Remove and re	place	1 x 10		Periodic (25 Hrs)

REF. NO. 11-E14/22 ELECTRICS AVRO AIRCRAFT LTD. Engineering Div. 11-E14/23 DISTRIBUTION: STANDARD + A/C TYPE - Arrow 1 COMPONENT S. Brown EFF. A/C - 25201 Switch - Low Press. Cock K. Knowlton L and R Hand MANUFACTURER'S PART NO. 8824K8 AVRO PART NO. Cutler-Hammer MANUFACTURER'S NAME AVROCAN SPEC. E.O. NO. REF. DWGS. ENVELOPE SIZE 2.281" x 1.312" x .75" WEIGHT .10 LB. 7-1100-3 Sht. 6 USE LOCATION 7-1100-2 Sht. 5 Mounted on Fire and Fuel panel E14 front 7-1252-276 cockpit L.H. Console FUNCTION REF. M.D.R. When selected to NORMAL completes a supply from the emergency DC bus to the open field of the 11-E14 L.P. cock actuator. When selected to OFF RELIABILITY ENT completes a supply from the battery bus to the OVERHAUL LIFE 1500 close field of the actuator. HRS. WASTAGE Q.T.R. INSPECTION MEN X MINUTES OPERATION TO BE PERFORMED PERIOD EST. ACTUAL MEN X MINUTE ACTIO EST. Primary Function check (Ref. Maintenance Instructions Report 71/Maint-11/7 Electrics fuel system. 1 x 3 Periodic 1 x 10 (25 Hrs) See ref. M.D.R. 11-E14 ACCESSIBILITY Lift panel clear of console. ISSUE DATE 6 Dec. 57 COMPILED K.P. Lowe WO<sup>2</sup> Wentworth CHECKED APPROVED R.F. Reid

SYSTEM

RECORD

MAINTENANCE DATA

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		LUBRICATIO				HAINT	ENANC
APPLICATION	MATERIAL	SPECIFICATION	FREQUENCY	ACCESS		AVRO AIRCR	NAFT LTD.
		1800				S, Brown	nDA.C.
				T, SEPTEMBER		I knowl con	
DETAILS:						MANFACTURER'S P	ART NO.
						UMPACTURER'S N	AME
			38.63			INFOCAN SPEC. E-	
		GROUND SUPPORT				INVELOPE SIZE 1-	.5/16" x 1
SPECIAL '	TOOLS FOR AIRCRAF	T USE	SPECIAL TOO	LS FOR BENCH USE		ocation Mounte	ed on pane
		2000	of the last of the			the L.H. Spee	ed Brakes
	Nil		Ni			ROYCTION	
GROUN	D TESTING EQUIPME	NT	GROUND HAN	NDLING EQUIPMENT			
Air condi	tioner and gen	erator AC	Cockpit access Small maintena	stand.			
			Dinail maintena			MPECTION	
INTERCHANGEABLE	X 3	REMOVAL INS	TRUCTIONS	MEN × M	INUTES	PERIOD	
				EST.	ACTUAL	û refuel	
	Disconnect Remove swit Withdraw sw	4 electrical conne ch locknut and loc itch.	ctions. kwashers.	EST.	ACTUAL	On refuel	Functi Report

MANUFACTURER'S PART NO. MANUFACTURER'S NAME AVROCAN SPEC. E-417 E.O. NO. ENVELOPE SIZE 1-5/16" x 1-1/8" x 3/4" WEIGHT .11 LB. REF. DWGS. BENCH USE LOCATION Mounted on panel E21, located forward of the L.H. Speed Brakes FUNCTION REF. M.D.R. EQUIPMENT WASTAGE Q.T.R. ind. INSPECTION MEN X MI OPERATION TO BE PERFORMED PERIOD EST. AC Function test - (See Maintenance Instructions On refuel Report 71/MAINT 11/7. ACCESSIBILITY Unobstructed 1 x 6 ISSUE DATE 22 Nov. 57 COMPILED W02 Wentworth CHECKED K.P. Lowe APPROVED R.F. Reid

ACCESS

MAINTENANCE SYSTEM REF. NO. 11-E21/2 DATA RECORD ELECTRICS AVRO AIRCRAFT LTD. Engineering Div. DISTRIBUTION: STANDARD + A/C TYPE - Arrow 1 COMPONENT EFF. A/C - 25261 S. Brown Switch - Master Refuel K. Knowlton AVRO PART NO. CS-S-159-9 7-1100-2 sht 23 RELIABILITY OVERHAUL LIFE 1500 HRS.

MEN X MINUTES EST. ACTUAL 1 x 5

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		SPECIFICATION	FREQUENCY	ACCESS	AVEO AS STREUTION:
APPLICATION	MATERIAL	SPECIFICATION	37224		s Brown Franklite
DETAILS:	p-100-0-00			DAME OF THE PARTY	HATACTURE HATACTURE ORGAN SPEC
		CROUND SUPPO	RT EQUIPMENT	loka dari	THEORE SIZ
			SPECIAL TOO	LS FOR BENCH USE	COCATION
SPECIAL	TOOLS FOR AIRCRA	FT USE		NIL	Fir she
			GROUND HA	NDLING EQUIPMENT	
	nd TESTING EQUIPM	1990		NIL	DOSPLOT
				MEN	× MINUTES PERIO
INTERCHANGEABLE REPLACEABLE	EX	REMOVA	LINSTRUCTIONS	EST	ACTUAL
2.	Remove 1 mour	nting nut.			
	4 5		Remove and replace	1 x	10
			Remove and replace	1 x	10
			Remove and replace	l x	10

MAINTENANCE DATA RECORD SYSTEM REF. NO. 11-E21/3 AVRO AIRCRAFT LTD. ENECTRICS Engineering Div. DISTRIBUTION: STANDARD + A/C TYPE - Arrow 1 COMPONENT S. Brown Switch - Refuel Selector EFF. A/C - 25201 K. Knowlton (Rotary) MANUFACTURER'S PART NO. AVRO PART NO. MANUFACTURER'S NAME CS-S-149 AVROCAN SPEC. E-295 E.O. NO. REF. DWGS. ENVELOPE SIZE 1.14" x 1.89" dia. WEIGHT LOCATION Mounted on panel E21, located forward of 7-1100-2 sht 23 7-1100-3 sht 6 L.H. speed brake FUNCTION For selecting full or partial refueling REF. M.D.R. RELIABILITY 1500 OVERHAUL LIFE HRS. WASTAGE Q.T.R. CS-S-149 INSPECTION MEN X MINUTES OPERATION TO BE PERFORMED PERIOD EST. ACTUAL EN X MINUTES ST. ACTUAL Function test - (See Maintenance Instructions Report On refuel 1 x 5 71/MAINT 11/7) x 10 ACCESSIBILITY Unobstructed ISSUE DATE 25 Nov.57 COMPILED WO2 Wentworth CHECKED K.P. Lowe APPROVED R.F. Reid

		LUBRICATI	ON NIL			VAINTENA
		SPECIFICATION	FREQUENCY	ACCESS		190 AIRCRAFT L
PPLICATION	MATERIAL	SPECIA TOMPAC	THE STREET		MOLT THE LINE	THINK STANDARD
and the same of th			S - SUL AND		POT A	i bown i boolton
DETAILS:	THE THAT CO			THE TOTAL PAR	mreasanna.	ECHETREP'S PART N
					Marin Laurence	PENCTURER'S NAME
						OCCU SPEC.
						TELOPE SIZE 2.28
		GROUND SUPPORT		LS FOR BENCH USE	N 2 V 4 N 10 10 10 10 10 10 10 10 10 10 10 10 10	
SPECIAL TOO	OLS FOR AIRCRAF	T USE	SPECIAL TOOL	20 FOR BERCH USE		mounted  Mounted
				NTI	-1-14	
]	NIL	201-10		NIL	NAME OF TAXABLE PARTY.	TETON To pro
						mising valves
GROUND '	TESTING EQUIPME	NT	GROUND HANI	DLING EQUIPMENT		
ir Conditioner	and Generator	· AČ		NIL		
						INSPECTION
NTERCHANGEABLE	х	REMOVALIN	STRUCTIONS	MEN	× MINUTES	DEFECTION
REPLACEABLE	· ·	REMOVALING	and the state of	MEN EST		***************************************
REPLACEABLE	· ·	I Tank Someth	and the state of			PERIOD
REPLACEABLE	disconnect 3	electrical connec	and the state of			PERIOD
REPLACEABLE	disconnect 3	electrical connec	tors.			PERIOD
REPLACEABLE	disconnect 3	electrical connec	tors.			PERIOD
REPLACEABLE	disconnect 3	electrical connec	tors.			PERIOD  Arisary  Arthelling

REF. NO. SYSTEM MAINTENANCE DATA RECORD CCESS 11-E23/11 ELECTRICS AVRO AIRCRAFT LTD. Engineering Div. DISTRIBUTION: STANDARD + A/C TYPE - Arrow 1 COMPONENT Switch -S. Brown Refuel Control L.H. EFF. A/C -25201 K. Knowlton AVRO PART NO. MANUFACTURER'S PART NO. MANUFACTURER'S NAME CS-S-159-9 AVROCAN SPEC. E.O. NO. REF. DWGS. 7-1162-137 ENVELOPE SIZE 2.28" x 1.31" x .75" WEIGHT .11 LB. 7-1100-3 sht 6 H USE 7-1100-2 sht 30 LOCATION Housed on L U/C fuel panel E23 Mounted in L main wheel well. Sta. 487 REF. M.D.R. 11-E23 To provide a refuelling control FUNCTION When selected to ON position energizes the level sensing valves of the LH fuel system. RELIABILITY ENT OVERHAUL LIFE 1500 HRS. WASTAGE Q.T.R. MEN × MINUTES INSPECTION OPERATION TO BE PERFORMED ACTUAL PERIOD MEN X MINUTES EST. ACTUAL 1 x 1 Check for security (Refer to M.D.R. 11-E23) Primary Function check (See Maintenance Instructions Report Refuelling 71/MAINT 11/7 Electrics - Fuel System) ACCESSIBILITY Unobstructed with E23 panel removed.

ISSUE

DATE COMPILED

APPROVED

18 Dec. 57

K.P. Lowe
W02 Wentworth

R.F. Reid

		L	UBRICATI	ON NTT	3 3 8 8 8			7.14	TENANC IRCRAFT LTD.
APPLICATION	MATERIAL	SPECIFI	ICATION	FREQUENCY		ACCESS	Try.	1180 /	STANDARD +
	SARAM TRA	Day D		- 2007 018	- 08/		THE PER	(SECTION)	5110-
	Landred tes			- 254 2992				l Brown	
					3			[ [now]	011
DETAILS:	OH THAT	entra a j					THEFT	MEACTURES	S PART NO.
								CHICTURER	S NAME
								Marian	
								MUS SPEC.	
									2.28" x 1.33
		GROUND	SUPPORT	EQUIPMENT	PARLA Z TO	h_0 19201	Too Design		
SPECIAL	TOOLS FOR AIRC	RAFT USE		SPECIAL T	COOLS FOR BEN	CH USE		one Hot	ised on R U/C
								inted in	nsed on R U/C R Main wheel
									provide a re
	NIL				NIL			non 10	provide a re
	4- T (30) Mag				Al with to			aless of	the RH fuel
CPOU	ND TESTING EQUIP	MENT		CROINE	ANDI INC FORM	MENT		U/00 04	
				GROUND H	HANDLING EQUIP	MEN I			
Air Condition	ner and Genera	ator AC	Ma	aintenance platf	orm 4G/1596				
			34 33 37 3			DIF			
INTERCHANGEABL	EX	PEI	MOVAL INS	TRUCTIONS		MEN X	MINUTES	RESCTION PERIOD	
REPLACEABLE	electrical co	Other M.	MOVAL INS	TRUCTIONS	Yunotaon	EST.	MINUTES	HELTY	Check for
Disconnect 2	X .	onnections.	MOVAL INS	TRUCTIONS	tol simula dobtorust Titles			79900	Check for Function 71/MAINT
Disconnect 2	electrical co	onnections.	A local	TRUCTIONS	6	EST.		HELTY	Function
Disconnect 2	electrical co	onnections.	A local	mint set) ionis solutionis (\interestina)	6	EST.		HELTY	Function
Disconnect 2	electrical co	onnections.	A local	mint set) ionis solutionis (\interestina)	6	EST.		HELTY	Function
Disconnect 2	electrical co	onnections.	A local	mint set) ionis solutionis (\interestina)	6	EST.		HELTY	Function
Disconnect 2	electrical co	onnections.	A local	mint set) ionis solutionis (\interestina)	6	EST.		HELTY	Function
Disconnect 2	electrical co	onnections.	Re	mint set) ionis solutionis (\interestina)	е	EST.		HELTY	Function
Disconnect 2	electrical co	onnections.	Re	emove and replac	е	EST.		HELTY	Function
Disconnect 2	electrical contains and lockwas	onnections.	Re	emove and replac		EST.		HELTY	Function
Disconnect 2	electrical co	onnections.	Re	emove and replac	8	EST.		And the state of t	Function 71/MAINT
Disconnect 2	electrical contains and lockwas	onnections.	Re	emove and replac		EST.		And the state of t	Function 71/MAINT
Disconnect 2	electrical contains and lockwas	onnections.	Re	emove and replac		EST.		And the state of t	Function
Disconnect 2	electrical contains and lockwas	onnections.	Re	emove and replac		EST.		And the state of t	Function 71/MAINT
Disconnect 2	electrical contains and lockwas	onnections.	Re	emove and replac		EST.		And the state of t	Function 71/MAINT
Disconnect 2	electrical contains and lockwas	onnections.	Re	emove and replac		EST.		And the state of t	Function 71/MAINT
Disconnect 2	electrical contains and lockwas	onnections.	Re	emove and replac		EST.		And the state of t	Function 71/MAINT
Disconnect 2	electrical contains and lockwas	onnections.	Re	emove and replac		EST.		Person de l'agr	Function 71/MAINT
Disconnect 2	electrical contains and lockwas	onnections.	Re	emove and replac		EST.		And the state of t	Function n/MAINT

MAINTENANCE SYSTEM DATA RECORD ACCESS ELECTRICS AVRO AIRCRAFT LTD. Engineering Div. A/C TYPE - Arrow 1 DISTRIBUTION: STANDARD + COMPONENT EFF. A/C - 25201 S. Brown Refuel Control RH K. Knowlton MANUFACTURER'S PART NO. AVRO PART NO. MANUFACTURER'S NAME AVROCAN SPEC. E.O. NO. REF. DWGS. ENVELOPE SIZE 2.28" x 1.31" x .75" WEIGHT .11 LB. CH USE LOCATION Housed on R U/C fuel panel E24 Mounted in R Main wheel well Sta. 487 FUNCTION To provide a refuelling control, when REF. M.D.R. selected to ON position energizes the level sensing valves of the RH fuel system. PMENT OVERHAUL LIFE 1500 WASTAGE MEN X MINUTES EST. ACTUAL

1 x 5

	ION	OPERATION TO BE PERF	ORMED	MEN X N	MINUTES	
PERIO	D	V. 2	ORMED	EST.	ACTUAL	
man.		SHOVE SHEEF DESCRIPTIONS		i mana	Large	
Primary	Check for	security (Refer to M.D.R.	. 11-E24)	1 x 1		
Refueli	ng Function 71/MAINT	Check (See Maintenance In: 11/7 Electrics - Fuel Sys	structions Report tem)	1 x 5	onel	
	7- C   190- 196			1277		
	1 may 2 mg	ACCESSIBILITY	Control Control per local	Property a		
	Unobstruc	ted with E24 panel remove	ed.	4.45		
SUE	1					
ATE	18 Dec. 57	18 (19)				
	K.P. Lowe	The second secon				
	W02 Wentworth					

REF. NO.

Switch -

CS-S-159-9

7-1162-136

11-E24

RELIABILITY

7-1100-3 sht 6 7-1100-2 sht 31

11-E24/11

		LUBRICA	TION NIL	BONAHO		M.		NTENANO
APPLICATION	MATERIAL	SPECIFICATION	FREQUENCY	Ac	CCESS	41	1100	STANDARD +
m i	rine, Indak	T won	SIS - DIA 1085			d d	ardsh Som	K. Knowlto
DETAILS:	03-8-159			OM TEA	a Carre	DATE:	CUTTE	REPART NO. 2-3. REPART NO. 2-3.
			T FOUIDHENT	Mark Countries		a A SALINA		5.5." x 4.1
	TOOLS FOR AIRCRAFT	GROUND SUPPOR		TOOLS FOR BENCH	USE			
	NIL	se galansa is	ollana control di se la	NIL		Annoll corrects	um Op	side No. 3 Fu erates refuel ing a real or
anew	ND THE TOUR POUR LEVE		CROUND	HANDLING EQUIPM	TNE		elos,	
. DO	nd resting equipment	tin CO	Maintenance Plats					
AII CONGI CIOI	ier and Generato.	I AO	Maintenance Flati	101 m 4dy 1590				
		ATTRIBUTED NO.	T POLIABRE				RECTION COLUMN	
REPLACEABLE	EX	REMOVALI	NSTRUCTIONS		MEN X	ACTUAL	- Magai	-
	electrical conn		Remove and replace		1 x 5	eres	ize and ciss izes izes (a	checked pre-refue tank indicating twhee 71/MAINT 1 Check valv damage.
							2	sub-system report 71/1 function cf Instruction
				pura redomi				Remove forwa

MAINTENANCE DATA SYSTEM RECORD FUEL AVRO AIRCRAFT LTD. Engineering Div. 11-E113 DISTRIBUTION: STANDARD + A/C TYPE - Arrow 1 COMPONENT 11-E118 A. Cornish No. 3 Tank Level Sensing K. Knowlton EFF. A/C -S. Brown 25201 Valve (Type 1) AVRO PART NO. MANUFACTURER'S PART NO. 2-355 Rev. MF" MANUFACTURER'S NAME Schulz Tool & Mfg. Co. (c/o East 7-1600-12 AVROCAN SPEC. E-337 E.O. NO. REF. DWGS. 7-1662-31/32 ENVELOPE SIZE 5.5. \* x 4.10 \* x 4.05 \* WEIGHT 1.75 LB. 7-1100-2 SH 30 7-1100-3 shts 6 LOCATION Inside No. 3 Fuel Tank - Left and Right FUNCTION Operates refueling shut-off valve in No. 3 REF. M.D.R. tank by sensing a real or simulated "Tank Full" condition. RELIABILITY OVERHAUL LIFE 500 HRS. WASTAGE Q.T.R. Pending

INSPECT	INSPECTION OPERATION TO BE PERFORMED					INUTES
PERIO	D	V. 3			EST.	ACTUAL
On refuel Airframe & Electrics	and checked pre-refutank incoming right when the contract of t	Operation of this unit and its associated shut-off valve is checked on each refueling operation by carrying out the pre-refueling check as required, and observing the No. 3 tank indicator lights on E-23 and E-24 panels in left and right wheel wells. (See Maintenance Instructions Report 71/MAINT 16/3  Check valve and electrical connector for security and				
					2 x 1 Pending	
	Remove :	ACCESSIBIL	nel #3 Tank - 45 s		1 x 15	
ISSUE	1	2	3			
DATE	Jan 14/57	Apr. 25/57	8 Oct. 57			
COMPILED	Sgt. Bell	P.A. Bell Sgt	P. A. Bell Sgt			
CHECKED	C. Beanland	C. Beanland	J. Brumfit			
		R.F. Reid	R.F. Reid			

PMENT

CH USE

ACCESS

MEN X MINUTE
EST. ACTU

1 x 5

INTENANCE						0.00	
MCSAPT LTD.		ACCESS	ATION NIL FREQUENCY				
TANDARD +		песыя	FREQUENCY	SPECIFICATION	MATERIAL	ICATION	APPLI
rid K. Knowlton			- income in the later				
THE PART NO. 7-35						ILS	DETAI
JES NAME Schulz							
<sub>150</sub> B=311							
age 5.0" x 5.05"			DT FOIIPMENT	GROUND SUPPO			
juside No. 3 Fuel		ENCH USE	SPECIAL TOOLS FOR		OLS FOR AIRCRAF	SPECIAL TO	
nontrol the ac			Nil		nil		
ring refueling, ac							
		UIPMENT	GROUND HANDLING E	т	TESTING EQUIPMEN	GROUND	
			Cockpit access stand			fueler	Ref
		1596	Maintenance Platform 4G/ MATS - Wing	tor A-C	er and Genera		
200	MINUTES	MEN X I	INSTRUCTIONS	DEMOVAL	х	RCHANGEABLE	INTER
E Operation	ACTUAL	EST.	INSTRUCTIONS	REMUVAL		ACEABLE	REPLA
valve is out the						rframe	Air
No. 3 tax				uel system.	plicable A/C f	Defuel ap	1.
and right Report No				o lines.	nk access pane t 2 x 1/4 serv	Disconnec	3。
Check val			valve complete with	and withdraw	nounting bolts brackets from	Remove 2	4.
damage.			s 7-1662-1083 and 1087	ackets part No 1088 (R.H.) fr	Le mounting br	Disassemb	5.
Carry out			Ou ASTAG.	roos (n.H.) Ir	LOOK-TOOK AIIU		- רכן
sub-syste Report 71						ectrics.	
runction		1 x 2	Remove and replace	onnector.	electrical c	Disconnec	1.
Instructi			Remove and replace total	Ţ			
		1 x 55	efuel not included)				
Remove out			order not included)	122mc 00 Ut	*		
		a l					
1 January Janu	100						

MAI	NTENANCE	DATA RE	CORD	THITT	REF. N	-10
AVRO	AIRCRAFT LTD.		eering Div.	FUEL		E114
STRIBUTION	: STANDARD +	A/C TYPE -	Arrow 1	COMPONENT		E119
A. Corni	sh www.lton	EFF. A/C		No. 3 Tank Refueli	ing Shu	t-Off
5. Brown	950 77170MT 0011	EFF. A/C	25201	Valve	- C	
ANUFACTUR	RER'S PART NO. 7-355	-51 - Rev. "G"		AVRO PART NO.	*	
Coast)	- 033	Fool & Mfg. Co.	(c/o East	7=1600-11		
NVELOPE SI	IZE 5.0" x 5.05" x	4.60 <sup>®</sup> WEIGHT	г 1.66 гв.	REF. DWGS. 7-1662-31	100	
ocation I	inside No. 3 Fuel 1	Pank - Left & R	ight	7-1100-3 7-1100-2		& 7
	a the od	of fuel	1 3 No. 2			
tank dur	To control the adving refueling, acted sensing valve.	ting under cont	rol of No. 3	REF. M.D.R. 16-72		
				RELIABILI	TY	
				overhaul Life 500 wastage	0	HRS.
				Q.T.R. Pending		
INSPECT		OPERATION	TO BE PERFORMED	·	MEN X M	ACTUAL
Airframe Electric	out the No. 3 tai and right Report No.	pre-refueling class indicator lit wheel wells.  o. 71/MAINT 16/	heck as require ghts on E23 and See Maintenance		$2 \times \frac{1}{2}$	
25 Hr.	damage.			for security and	2 x 1	
	sub-syst	em in accordanc	check of the re e with Maintens	efueling/defueling ance Instructions	13 m	
	Papart 7	7 /MATNT 16/3			Pendin	\$
	Function Instruct	check fuel sysions Report 71/	tem electrics = MAINT 11/7	- See Maintenance	Pendin	\$
		ACCESSIBILI	TY			
	Remove o	utboard access	panel - No. 3 T	Tank - 62 screws.		
	Remove o	utboard access	panel - No. 3 I	Tank - 62 screws.		
	Remove o	utboard access	panel No. 3 T		] x 20	
	Remove o		Remove and	replace		5
ISSUE	1	2	Remove and	replace 4		5
DATE	1 May 31/55	2 Jan 26/56	Remove and  Aug 16/56	replace  4  Jan. 10/57	7 Oct.	5 57
	1 May 31/55	2	Remove and	replace  4  Jan. 10/57	7 Oct.	5 57 ell Sg

MINUTES ACTUAL

12.20		LUBRIC	ATION NIL			HAINT	E 14
APPLICATION	MATERIAL	SPECIFICATION	FREQUENCY	ACCESS		AVRO AIRC	RAFT
						NUTNEUTION: STA S. Brown A. Cronish K. Knowlto	n on
DETAILS:						A. MINORE S	PART
						NANUFACTURER'S I	
-		GROUND SUPPO	RT EQUIPMENT			ENVELOPE SIZE 1	
SPECIAL 7	COOLS FOR AIRCRAF	T USE	SPECIAL TOOL	S FOR BENCH USE		LOCATION Front	
	Wig-O-Flex T	cols	1	IIL		nuction  To meter th	
GROUNI	TESTING EQUIPME	NT	GROUND HAND	LING EQUIPMENT		No fuel ta	anks
Refueler Air Conditio	oner & Generat	tor A-C	Cockpit Access Stand Maintenance Platform 4G/1596 MATS - Wing			individual valve opera actuator pe	ated
Nana Civa Nena Civa						INSPECTION	T
INTERCHANGEABLE REPLACEABLE	X	REMOVAL	INSTRUCTIONS	MEN X I		PERIOD	+
Airframe				EST.	ACTUAL	Primary	I
2. Remove t 3. Disconne 4. Disconne 5. Disconne 6. Remove 8 bracket;	# /°100%-10%	el. ed lines. umper.				Airframe On Refuel Airframe & Blectrics Periodic (25 Hrs.)	In GO
			Remove and replace	1 x 56		Airframe &	Ca
Electrics						Rectrics	7]
l. Disconne	ct l electrical	L connector.					
			Remove and replace	1 x 3			
	(3	Time to defuel m					
							Th We
						MR 19 Jan	1

JIPMENT .596 MEN X MM EST. K 1 x 56 1 x 3

ACCESS

ENCH USE

MAINTENANCE D AVRO AIRCRAFT LTD.	ATA RECORD  Ragineering Div.	FUEL SYSTEM	REF. NO. 16-1 11-E127
S. Brown A. Cronish K. Knowlton	A/C TYPE - Arrow 1 EFF. A/C - 25201	Flow Proportion	11-E128 er Unit
MANUFACTURER'S PART NO. 50E00-1 MANUFACTURER'S NAME Bendix Avarocan spec. E-212 e.o.	iation Corp.	AVRO PART NO. 7=1662-2	
ENVELOPE SIZE 19.10 " x 9.5" x 7	.5" WEIGHT 22.88 LB.	REF. DWGS.	
LOCATION Front face of main sp	er - U/C bay R & L Hand	7-1662-285	& 286
To meter the flow of fuel A/C fuel tanks in amounts individual tank capacities valve operated by an exter actuator permits unmetered	proportional to the . An internal by-pass nally mounted electric	REF. M.D.R.  RELIAB  OVERHAUL LIFE 50  WASTAGE Q.T.R. 8710=960	

INSPECT	TON	OPERATIO	N TO BE PERFORMED		MEN X I	MINUTES
PERIO	D				EST.	ACTUAL
Primar Airfra	*	t for fuel leaks	and security.		1 x 2	
On Ref Airfra & Electr	ame See Ma and 71	on check the oper intenance Instruc /MAINT 11/7	ation of the by-p tions Report 71/M	ass valve. AINT 16/3	Pendin	<b>1</b> 0
Period (25 Hr	eme Carry	out functional che	ecks on operation	in accordance	1 x 2	
&	Airframe & Carry out functional checks on operation in accordance with maintenance instructions report No°s 71/MAINT 11/7 71/MAINT 16/3 and 71/MAINT 16/4					T
		ACCESSIBIL	ITY			
	Throug wells.	th hinged door in = 48 screws.		g = main wheel	1 x 24	
ISSUE	1	2	3	4	5	l
DATE	19 Jan. 55	29 Sept.55	20 Jan.56	July 12/57	6 Dec	.57
COMPILED	G. Emmerson	G. Emmerson	G. Emmerson	J. Brumfit		ell Sgt
COMPILED			0 10	Sgt Bell	7 12	
CHECKED	G. Emmerson	G. Emmerson	G. Emmerson	ogc perr	R.F. R	mfit

1		prince. Mr.						NANCE
			LUBRICAT	10 N			MAIN	TENANCE
			SPECIFICATION	FREQUENCY		ACCESS	AVRO AIR	ANDARD +
	Hand	Petroleum Jelly	Pharmaceutical Quality	On Installation	Unobstru	cted	A Cornish S Brown	K. Knowl tor
	DETAILS:	igs to be smeare	d lightly with po				unitacturer s Cost) Trocan spec. E	PART NO. 2= NAME Schulz -337 5.5 * x 4.10
		TOOLS FOR AIRCRAF			COOLS FOR BEN	CH USE		le No. 6 fue
:	Wig-O-Flex To	ools ! no testing equipme	NT	NIL ground i	HANDLING EQUIF	PMENT	ratnom Oper	rates refuel sing a real
	Refueler Test Set. Fue	ner and Generated el Quantity Indi Air Supply 85 pa	icating System	Cockpit Acces Maintenance F	ss Stand Platform 4G/	1596	DEPECTION	
	INTERCHANGEABL	E X	DEHOVAL N	ASTRUCTIONS		MEN X MINI	UTES PERIOD	
	REPLACEABLE		REMOVALII	STRUCTIONS		EST. AC	CTUAL arefuel -	Operat
1 2 3 4 5 E 1 1 2 2 3 4 5 E 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	manifold c manifold c Remove tur Remove pro Withdraw p to sealing Lectrics Disconnect Installation A Fit propor and "0" ri Install 4 Adjust tur Remove low Connect Wi Electrics Connect el Airframe & Ele Refuel air Maintenance	onnection.  nbuckle proport  portioner to ad  roportioner fro  tubes).  electrical con  irframe  tioner to adapt  ngs and sealing  mounting bolts  nbuckles where  er mounting bol  g-0-Flex coupli  ectrical connected  ectrics  craft and carry  te Instructions	ioner attachment aptor mounting bom adaptor (observed) and aptor at by-pass or (ensure that restricted in place) - fit nuts and we necessary and fits and leave holding and bonding leave to to by-pass verout functional	plts - 2 off. we care to avoid of s valve actuator. mating surfaces as ashers to top bol t bolts - 2 off. es redundant. ead.	damage re clean, ts only.		inframe & Instricts  & Hour inframe & Instricts	valve out th the No left a Instru Check and da Carry sub-sy Report Functi Instru
	and 71/Mai	nt 16/4.	functional check	Remove and R		1 x 30	140	1 1 2/57 Bell

AVRO	INTENANCE AIRCRAFT LTD.	Engi	ECORD	SYSTEM FUEL	REF. 16 11-E	-75
A. Corni	IV O IVIIOM T COII	A/C TYPE - I	25201	No. 6 Tank Level (Type 1)	Sensin	El34 g Valve
MANUFACTU	RER'S PART NO. 2-3	55-1 Rev. "F"		AVRO PART NO.		
MANUFACTU Coast) AVROCAN SF	rer's name Schulz T	ool & Mfg. Co. (	c/o East	7-1600-l	2	
ENVELOPE S	SIZE 5.5* x 4.10*	x 4.05" WEIGH	IT 1.75 LB.	REF. DWGS. 7-1662-	25	
OCATION ]	Inside No. 6 fuel	tank - Left and	l Right	7-1100-2 7-1100-3	SH 30	
	Operates refueli sensing a real o			REF. M.D.R.		
COLUITOIC	5116			RELIABIL	ITY	
				overhaul Life 500 wastage Q.T.R. Pending		HRS.
INSPECT		OPERATIO	N TO BE PERFORMED		MEN X )	MINUTES
On refuse Airframe & Electric 25 Hour Airframe & Electric	valve i out the the No. left an Instruc Check v and dam Carry of sub-sys Report	s checked on each pre-refueling of tank indicated right wheel we tions Report 71/alve and electricage.  ut a functional tem in accordance 71/MAINT 16/3	check as required or lights on E23 cells. (See Mainte MAINT 16/3 cell connector for check of the reserve with Maintenary cetem electrics -	ration by carrying d, and observing and E24 panels in enance or security fueling/defueling ace Instructions	2 x ½ 2 x 1 Pending	
	Instruc	ACCESSIBIL				
	Remove		oanel #6 tank ~ : Remove and		1 x 10	
ISSUE	1 1	2	3			L
DATE	Jan 2/57	Apr. 25/57	8 Oct. 57			
	1	A	P.A. Bell Sg			

P.A. Bell Sgt J. Brumfit

R.F. Reid

COMPILED

CHECKED

Sgt Bell

APPROVED R.F. Reid

C. Beanland

Sgt Bell C. Beanland

R.F. Reid

		LUBRICAT	ON NIL	. MANARAL RIAD
APPLICATION	MATERIAL	SPECIFICATION	FREQUENCY	ACCESS
APPLICATION	Night and		- 211.50	Wilder Co. Co. Land
DETAILS:			100 , 200 I- 100 , 200 A	only affairs. This representation
	630117	GROUND SUPPORT		
SPECIAL	TOOLS FOR AIRCRAF	T USE	SPECIAL	TOOLS FOR BENCH USE
	NIL			NIL
GROUN	ND TESTING EQUIPME	NT	GROUND	HANDLING EQUIPMENT
Refueler	oner and Genera	ator A-C	Cockpit Access Maintenance Pl MATS - Wing	s Stand atform 4G/1596
Air Conditi				
Air Conditi		ADMINISTRAÇÃO DE	NOT STATE OF	NORTHERN
Air Conditi	X 3	REMOVAL IN	STRUCTIONS	MEN × MINUTE

INTERCHANGEABLE	х	REMOVAL INSTRUCTIONS	MEN X	MINUTES
REPLACEABLE			EST.	ACTUAL
Airframe		the control of the state of the	-	
2. Remove to 3. Disconnection	ank a	cable A/C fuel system. access panel. x 1/4 servo lines. nting bolts and withdraw valve from tank.	1000	200E
		Remove and replace	1 x 25	est pille
Electrics;			750	Joseph .
l. Disconne	ct e	lectrical connector.		
		Remove and replace	1 x 3	
		(Time to defuel not included)		
			and to	

muster 5.0" x 5.05" x 4.60  mms Inside No. 6 Fuel Tank  mms To control the admissi- migrefueling, acting under milevel sensing valve.	MAINT	ENANCE D
Check valve addrage.  Check valve addrage.  Check valve addrage.  Carry out a frauther was a frauther when Report 71/MAI  Check valve addrage.  Carry out a frauther was a frauther when Report 71/MAI  Check valve and Check valve a	AVRO AIRCI	NARD +
AND THE PART NO. 7-355-51 In CONTRACT NAME Schulz Tool of MANUSCRE. E-311  E.O. NO. 10 MANUSCRE. E-311		
MACTURERS NAME Schulz Tool of mucrorers NAME Schulz Tool of NAME To control the admission of the refueling, acting under the refueling, acting under the refueling, acting under the results out the pre-f of tank indica and right when Report 71/MAI Check valve a damage.  Carry out a from the results of the	arova Ke	Knowlton
MANUSCRES NAME Schulz Tool of MANUSCRES 5.0" x 5.05" x 4.60  MANUSCRES 6.0" x 5.05" x 5.05" x 4.60  MANUSCRES 6.0" x 5.05" x 5.05" x 5.05  MANUSCRES 6.0" x 5.05" x 5.05  MANUSCRES 6.0" x 5.05" x 5.05  MANUSCRES 6.0" x	A APPENDER'S F	ART NO. 7-355-51
mouse E-311  E.O. No. 100 ann Inside No. 6 Fuel Tank ann Inside No. 6 Fuel	MACTUREN	- Schulz Tool
monute 5,0" x 5,05" x 4,60  man Inside No. 6 Fuel Tank  ma	MITACTURER'S N	AME SCHULL I
Inside No. 6 Fuel Tank Tank To control the admissi- ting refueling, acting under the sensing valve.  WHENDO  HENDO  Operation of valve is chec out the pre-f 6 tank indica and right whe Report 71/MAI check valve at damage. Carry out a fi- sub-system in Report 71/MAI Function check Instructions p	rican spec, E=	311 E.O. NO
THE TO CONTROL THE ADMISSION OF STREET OF STRE	micre size 5.	0" x 5.05" x 4.60
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SYSTEM MAINTENANCE DATA RECORD REF. NO. FUEL CESS 16-79 AVRO AIRCRAFT LTD. Engineering Div. 11-E130 DISTRIBUTION: STANDARD + A/C TYPE - Arrow 1 COMPONENT 11-E135 A. Cornish No. 6 Tank - Refueling Shut-Off EFF. A/C -S. Brown K. Knowlton 25201 Valve AVRO PART NO. MANUFACTURER'S PART NO. 7-355-51 Rev. "G" MANUFACTURER'S NAME Schulz Tool & Mfg. Co. (c/o East 7-1600-11 Coast) AVROCAN SPEC. E-311 E.O. NO. REF. DWGS. ENVELOPE SIZE 5.0" x 5.05" x 4.60" WEIGHT 1.66 7-1662-25 & 26 7-1100-3 shts 6 & 7 USE LOCATION Inside No. 6 Fuel Tank - Left and Right 7-1662-253 & 254 7-1100-2 sht 30 FUNCTION To control the admission of fuel to No. 6 tank REF. M.D.R. during refueling, acting under the control of No. 6 tank level sensing valve. ENT RELIABILITY OVERHAUL LIFE 500 HRS. WASTAGE Q.T.R. Pending INSPECTION MEN × MINUTES OPERATION TO BE PERFORMED PERIOD EST. ACTUAL MEN X MINUTE ACTIL EST.  $2 \times \frac{1}{2}$ On Refuel Operation of this valve and its associated level sensing valve is checked on each refueling operation by carrying Airframe & out the pre-fueling check as required, and observing No. Electrics 6 tank indicator lights on E23 and E24 panels in left and right wheel wells. (See Maintenance Instructions Report 71/MAINT 16/3) 25 Hr. Check valve and electrical connector for security and Airframe & 1 x 25 Carry out a functional check of the refueling/defueling Electrics sub-system in accordance with Maintenance Instructions Pending Report 71/MAINT 16/3. Function check fuel system electrics - See Maintenance Instructions report 71/MAINT 11/7 Pending 1 x 3 ACCESSIBILITY Remove centre access panel - No. 6 Tank - 29 screws. 1 x 10 Remove and replace ISSUE DATE 8 Oct. 57 Jan. 15/57 COMPILED P.A. Bell Sgt Sgt. Bell

J. Brumfit

R.F. Reid

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CHECKED

C. Beanland

APPROVED R.F. Reid

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APPLICATION	MATERIAL	SPECIFICATION	FREQUENCY	ACCESS	CONTION: 8	TANDARD +
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SYSTEM REF. NO. 16-114 MAINTENANCE DATA RECORD FUEL CCESS AVRO AIRCRAFT LTD. Engineering Div. 11E-148 DISTRIBUTION: STANDARD + A/C TYPE - Arrow 1 COMPONENT A. Cornish Valve -S. Brown EFF. A/C -By - Pass Override (RH) 25201 K. Knowlton MANUFACTURER'S PART NO. 5-1256-1 AVRO PART NO. MANUFACTURER'S NAME Schulz (c/o East Coast Engiring) 7-1656-395 E.O. NO. AVROCAN SPEC. E542 REF. DWGS. 7-1654-341 ENVELOPE SIZE 5.15" x 4.75" x 3.25" WEIGHT 1.85 LB. 7-1654-18 sh 3 CH USE 7-1100-3 sh 6 LOCATION Duct Bay - Sta. 485 FUNCTION Functions as a means to override the REF. M.D.R. by-pass and refueling shut off valve to relieve fuel transfer pump discharge over pressure back to No. I Tank in the event of a failure of the RH fuel pressure RELIABILITY MENT regulator. OVERHAUL LIFE 500 HRS. WASTAGE Q.T.R. Pending 96 MEN X MINUTES

	INSPECTIO	N	OPERATION TO	BE PERFORMED		MENXE	
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	Electrics	Inspect	security of electri	ical connector.		lxl	werald .
	25 Hr. Airframe	Inspect damage,	valve and associate corrosion and leaks	ed piping for secu age.	rity,	1 x 3	
	Electrics	Function 71/MAIN	n Test (See Maintens F 11/7)	ance Instructions	Report	Pending	
		To Alexander				mand 4	
1 x 38							
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			ACCESSIBILITY				
1 x 3		Through	electrics access d	oor - 74 camlocs Remove and re	place	1 x 7½	
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n	ISSUE	1	2				
	DATE	24 Apr. 57	20 Nov. 57				
		P.A. Bell Sgt	P.A. Bell Sgt				
		C. Beanland	J. Brumfit				
		R.F. Reid	R.F. Reid				

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		GROUND SUPPOR	T EQUIPMENT	No. 1			TELOPE SIZE 5.15
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SYSTEM REF. NO. 16-115 MAINTENANCE DATA RECORD FUEL AVRO AIRCRAFT LTD. Engineering Div. 11E-149 DISTRIBUTION: STANDARD + A/C TYPE - Arrow 1 COMPONENT Valve -A. Cornish EFF. A/C -By-Pass Override (L. H.) 25201 K. Knowlton S. Brown MANUFACTURER'S PART NO. 5-1256-1 AVRO PART NO. MANUFACTURER'S NAME Schulz (c/o East Coast Eng®Ring) 7-1656-395 AVROCAN SPEC. E542 E.O. NO. REF. DWG8. ENVELOPE SIZE 5.15" x 4.75" x 3.25" WEIGHT 1.85 LB. 7-1654-341 7-1654-18 sh 3 LOCATION Duct Bay - Sta. 485 7-1100-3 sh 6 Functions as a means to override the by-pass REF. M.D.R. and refueling shut-off valve to relieve fuel transfer pump discharge over pressure back to No. 2 Tank in the event of a failure of the LH fuel pressure regulator RELIABILITY 500 OVERHAUL LIFE HRS. WASTAGE Pending Q.T.R. MEN X MINUTES INSPECTION OPERATION TO BE PERFORMED ACTUAL EST. MEN X MINUTE PERIOD EST. ACTUA Primary Inspect valve and associated piping for security and 1 x 2 Airframe indications of leakage. Inspect security of electrical connector. 1 x 1 Electrics 25 Hour Inspect valve and associated piping for security, damage Airframe 1 x 3 corrosion and leakage. Function Test (See Maintenance Instructions Report 1 x 30 Pending 71/MAINT 11/7) ACCESSIBILITY Through electrics access door - 74 camlocs 1 x 75 Remove and replace

> 2 20 Nov. 57

P.A. Bell Sgt

J. Brumfit

R.F. Reid

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DATE

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APPROVED

24 Apr. 57

C. Beanland

R.F. Reid

P.A. Bell Sgt

		LUBRICATI	ON NIL			MAINTE AVRO AIRCRA	RT LTD
APPLICATION	MATERIAL	SPECIFICATION	FREQUENCY	ACCE	SS	DISTRIBUTION: STANE	OARD +
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DETAILS:						WANUFACTURER'S PA	RT NO.
					-	WANUFACTURER'S NA	
						AVROCAN SPEC. E23	3
		GROUND SUPPORT	EQUIPMENT			ENVELOPE SIZE 7.	93" x
SPECIAL	TOOLS FOR AIRCRAF			TOOLS FOR BENCH U	SE	LOCATION Duct	bay -
						bases	3
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GROU	UND TESTING EQUIPME	511 I	GROOM	THE STATE OF THE S		normal or op	ens t
Air Conditions	er and Generator	AC	Workstand			is set to the	RH or
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Airframe 1.	Defuel aircraf	t (L.H. system) l piping - 7 coupl	inge			Electrics .	Cl
3.	Remove 4 mount	ing bolts and with	draw valve	A USBARAS		25 Hr.	
4.	Remove "TEE" N	o. CS-F-516-6-4-6				Airframe	C
Electrics 1.	Disconnect 1 e	lectrical connector	r.			Electrics	F 7
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			(Defueling time	not included)			
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						APPROVED C.	Bean

SYSTEM REF. NO. MAINTENANCE DATA RECORD 16-65 FUEL ACCESS AVRO AIRCRAFT LTD. Engineering Div. 11-E169 A/C TYPE - Arrow 1 DISTRIBUTION: STANDARD + COMPONENT Valve - 2½" dia. A. Cornish EFF. A/C -Motor operated - Fuel Shut-Off 25201 S. Brown K. Knowlton (Crossfeed valve) MANUFACTURER'S PART NO. AV 16 B 1337 B 7-1600-61 MANUFACTURER'S NAME General Controls Co. E.O. NO. AVROCAN SPEC. E233 REF. DWGS. 7-1656-1 ENVELOPE SIZE 7.93" x 7.68" x 4.79" WEIGHT 4.90 LB. 7-1656-205 ENCH USE 7-1656-207 Duct bay - Sta. 546.52 between heat exchanger LOCATION 7-1100-2 sh 24 bases. FUNCTION Serves as a positive remote method of closing REF. M.D.R. a fuel line against flow in either direction. Used in this instal n to isolate the left and right hand fuel systems when the cockpit crossfeed selector is set at RELIABILITY UIPMENT "normal" or opens to permit flow from right or left OVERHAUL LIFE 500 hand system to both engines when the cockpit selector HRS. WASTAGE is set to the RH only or LH only. Q.T.R. 425-M.T, 435-M.T., 404-M.T. MEN X MINUTES INSPECTION OPERATION TO BE PERFORMED ACTUAL PERIOD MEN X MINUTE EST. ACTU Primary 1 x 1 Visual - Check for leakage. Airframe 1 x 1 Check electrical connector for security. Electrics 25 Hr. Check for security, damage, corrosion and leakage. 1 x 2 Airframe Function Test (See Maintenance Instructions Report Electrics Pending 71/MAINT 11/7) 1 x 30 uded) ACCESSIBILITY Through hydraulics access panel - 52 camlocs. 1 x 5½ Remove and replace ISSUE. 20 Nov. 57 2 May 57 Feb. 4/57 Sept. 28/56 DATE June 6/56 P.A. Bell Sgt P.A. Bell sgt P.A. Bell COMPILED P.A. Bell P.A. Bell J. Brumfit C. Beanland C. Beanland CHECKED C. Beanland C. Beanland R.F. Reid H.F. Reid R.F. Reid APPROVED G. Emmerson G. Emmersen

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PPLICATION	MATE	RIAL	SPECIFICATION	FREQUENCY	ACCESS		AVRO A
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Adjustable		dellerat	100 AG	Workstand Cockpit Access St	and		
Refueler							MPECTIC
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				tal Remove and replace			lectrics
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Sept. 28/56
P. A. Bell
C. Beanland

SYSTEM REF. NO. 16-69 MAINTENANCE DATA RECORD CCESS FUEL AVRO AIRCRAFT LTD. Engineering Div. 11-E171 A/C TYPE - Arrow 1 COMPONENT DISTRIBUTION: STANDARD + 11-E172 A, Cornish Valve - 21th Dia. EFF. A/C -S. Brown K. Knowlton Motor Operated - Fuel Shut-Off 25201 (L.P.Cock) AVRO PART NO. MANUFACTURER'S PART NO. AV 16B 1337 B 7-1600-61 MANUFACTURER'S NAME General Controls Co. E.O. NO. AVROCAN SPEC. E233 REF. DWGS. 7-1656-203 ENVELOPE SIZE 7.93" x 7.68" x 4.79" WEIGHT 4.90 LB. 7-1656-207 CH USE LOCATION \_ In duct bay - Sta. 555 - Aft of fuel/oil 7-1100-1 heat, exchanger. FUNCTION Serves as a positive remote method of closing REF. M.D.R. a fuel line against flow in either direction. Used in this instal n as a low pressure cock to shut off the fuel supply to an engine. Actuated by operating the RELIABILITY MENT switches on LH console of pilots cockpit. OVERHAUL LIFE 500 WASTAGE Q.T.R. United Electro Dynamics 425-M.T, 437 -MT, 404-M.T. MEN X MINUTES INSPECTION OPERATION TO BE PERFORMED EST. ACTUAL PERIOD MEN X MINUTE ACTU EST. Primary 1 x 1 Visual - Check for leakage. Airframe 1 x 1 Check electrical connector for security. Electrics 1 x 180 25 Hr. Check for security, damage, corrosion and leakage. 1 x 2 Airframe 1 x 24 Function test. (See Maintenance Instructions Report Electrics Pending 1 x 204 71/MAINT 11/7) 1 x 2 ACCESSIBILITY Through hydraulics access panel - 52 camlocs 1 x 51 Remove and replace 2 ISSUE 20 Nov. 57 2 May 57 DATE Sept. 28/56 Feb. 7/57 P.A. Bell Sgt P.A. Bell Sgt COMPILED P.A. Bell P. A. Bell J. Brumfit C. Beanland CHECKED C. Beanland C. Beanland R.F. Reid R.F. Reid APPROVED R.F. Reid Emmerson

		LUBRICAT		
PPLICATION	MATERIAL	SPECIFICATION	FREQUENCY	ACCESS
				ANNUAL I DESIGNATION
ETAILS:				
E [AILS:				
				LESS MARRIAGO
		GROUND SUPPOR	TEOUIPMENT	
				FOR BENCH USE
SPECIAL	TOOLS FOR AIRCRA	FT USE		
Wig-O-Flex	Tools		NIL	
CROV	IND TESTING EQUIPM	ENT	GROUND HANDLI	ING EQUIPMENT
GROC	ND TESTER DOOR			
Air Conditi	oner and Genera	itor AC	Workstand	
Refueler				
NTERCHANGEAB	LE X	DEHOVAL I	NETRHOTIONS	MEN × MINUTES
EPLACEABLE		REMOVALI	NSTRUCTIONS	EST. ACTUAL
Airframe	l. Defuel a	oplicable A/C syst	tem	
	2. Remove M.	P. hose section #	7-1600-47	
	3. Disconnect couplings	st 2 bonding jumpers and remove pipe	ers, 2 wig-o-flex section No. 7-1656-22	
	4. Remove 12	2 x 5/16 cap screw	section No. 7-1656-22 vs to remove valve.	
		Pomos	ve and replace	1 x 56
		TEHO:		1 x 30
Electrics	l. Disconnec	et l electrical co		
Electrics	l. Disconnec	ct 1 electrical co	onnector.	1 x 2
Electrics	l. Disconnec	et 1 electrical co	onnector.	1 x 2
Electrics	1. Disconnec	Estimate remove	onnector. We and replace	1 x 2 1 x 58
Electrics	l. Disconnec	Estimate remove	onnector.	
Electrics	l. Disconnec	Estimate remove	onnector. We and replace	
Electrics	l. Disconnec	Estimate remove	onnector. We and replace	
Ele <b>c</b> trics	l. Disconnec	Estimate remove	onnector. We and replace	

MAINTENA

AVRO AIRCRAFT I

S. Brown K. Kr

NUFACTURER'S PART N

ANUFACTURER'S NAME
Wh
WROCAN SPEC. E288

ENVELOPE SIZE 8.3

LOCATION Duct Bay skin

dump valve in the

INSPECTION	,
PERIOD	
Primary	
Airframe	
Electrics	
25 Hr.	
Mirframe	1
	1
	]
	1
Mectrics	1
	]
	I

MUE	
DATE	1
CONDITED	20 June
	G. Emmers
APPROVED	G. Emmers

MAINTENANCE D	ATA RECORD ,	SYSTEM FUEL	REF. NO. 16-11
A. Cornish S. Brown K. Knowlton	A/C TYPE - Arrow 1 EFF. A/C - 25201	COMPONENT  Valve = Air Pr  (Abs. Ref	l1-E179 l1-E180 essure Relief
MANUFACTURER'S PART NO. HS 50399 MANUFACTURER'S NAME Hamilton Lto Whitney) AVROCAN SPEC. E288 E.O. N	d. (c/o CDN. Pratt and	AVRO PART NO. 7-1656-4	
envelope size 8.3% x 8.0% x 4.0 Location Duct Bay - Sta. 674.1 skin		7=1658=1 7=1658=2 7=1658=2 7=1100=3	05 11 & 12
FUNCTION Acts as a safety valve dump valve in the wing tank p		REF. M.D.R.	
		RELIABIL	.ITY
		overhaul Life 50 wastage Q.T.R. Pending	O HRS.

CESS

USE

ENT

MEN X MINUTES ACTUAL

EST.

1 x 56

1 x 2

1 x 58

INSPECTION ·		OPRPATION	OPERATION TO BE PERFORMED			MINUTES
PERIOD		OF BIGHTION	TO BE PERFORMED		EST.	ACTUAL
Primary						
Airframe	Check v	alve and associa	ted piping for se	ecurity.	1 x 2	
Electrics	Check 6	Check electrical connector for security.				
25 Hr.						
Airframe		Check valve and associated piping for security, corrosion and damage.				
	Functio	n test valve (Sec 71/MAINT 16/2)	e Maintenance Ins	structions	Pendin	g g
Electrics	lectrics Check electrical connector for security.				1 x 2	
	Function test electrics (See Maintenance Instructions Report 71/MAINT 11/7)				Pendin	g S
		A C C E S S I B I L I	TY			
	Through	. No. 3 Service Do		e and replace	1 x 3½	
ISSUE	1	I 6	7			
DATE	20 June 55	.29 Aug. 57	20 Nov. 57			
COMPILED	G. Emmerson	P.A. Bell Sgt	P.A. Bell Sgt			
CHECKED	G. Emmerson	J. Brumfit	J. Brumfit			
APPROVED		R.F. Reid	R.F. Reid			

		LUBRICAT	IOH NIL		
APPLICATION	MATERIAL	SPECIFICATION	FREQUENCY	ACCESS	
ATTENTION					
DETAILS:					
		GROUND SUPPORT			
SPECIAL	TOOLS FOR AIRCR	AFT USE	SPECIAL TOOLS FOR BENCH USE		
Wig-O-Flex T	ools		NIL		
GROUN	D TESTING EQUIP	MENT	GROUND HANDL	ING EQUIPMENT	
	Air Supply 85				
	. Pressure Ga		**		
Air conditio	ner and gener	ator Ac	Workstand		
INTERCHANGEABLE	x z	DENOVALIN	STRUCTIONS	MEN × MINI	
REPLACEABLE		REMOTALIN	3180011083	EST. AC	
			nnectors		

INTERCHANGEABLE	×	REMOVAL INSTRUCTIONS	MEN X !	MINUTES
REPLACEABLE			EST.	ACTUA
Electrics	1.	Disconnect 4 electrical connectors.  Estimated remove and replace	1 x 12	
Airframe	3.	Disconnect 4 bonding jumpers, 4 wig-O-flex couplings and remove LP pipe sections #7-1658-163 (2 off)		
	2.	Disconnect 4 bond jumpers, 6 wig-o-flex couplings, and remove LP pipe assemblies #7-1658-147 and 148.		
	3.	Disconnect 4 bonding jumpers, 4 wig-c-flex couplings and remove LP pipe sections 7-1658-135 (2 off)		
	40	Remove 1 support clip and disconnect and remove shut- off control pipe assemblies No's 7-1658-293 and 295.		
	5.	Disconnect 3 bonding jumpers 3 wig-o-flex couplings and remove LP pipe #7-1658-157.		
	6。	Disassemble valve and tray assiv into right and left		
	7.	hand sections by removing straps #7-1658-221 (2 off EA 4 screws) 1 channel strap 7-1658-283 (4 screws) and 1 spacer block ass'y #7-1658-283 (4 bolts) Remove half tray assemblies (EA 4 bolts) from A/C and disassemble components from tray.		
		Remove and replace	1 x 180	}

## HAINTENANO

AVRO AIRCRAFT LTD.

MENSUTION STANDARD +

L. KOVITON

L. Cornish

S. Brown

NUMERACTURER'S PART NO. H

AFROCAN SPEC. E289

INVELOPE SIZE 8.3" x 5.

LOCATION Duct Bay - F

memor Acts as a saf fuselage tank pressu from over-pressurize during rapid climb. dump valve to releas

INSPECTION PERIOD	
himary Mirframe	Che
Rectrics	Che
25 Hour Airframe	Che Fui 71,
Electrics	Che co: Fu: Re:

Th

ME	
DATE	1
CINDITED	25 Oct. 55
OECKED TO THE OF THE OF	G. Emmersor
	G. Emmerson
OSKOARD	G. Emmersor

SYSTEM REF. NO. MAINTENANCE DATA RECORD FUEL 16-21 11-E207 AVRO AIRCRAFT LTD. Engineering Div. distribution; standard + K. Knowlton A/C TYPE - Arrow 1 COMPONENT Valve - Air-Pressure Relief A. Cornish EFF. A/C -25201 (Diff. Ref.) S. Brown AVRO PART NO. MANUFACTURER'S PART NO. HS 508653 MANUFACTURER'S NAME Hamilton Ltd. c/o Cdn. Pratt & Whitney 7-1656-5 AVROCAN SPEC. E289 E.O. NO. REF. DWGS. 7-1656-1 ENVELOPE SIZE 8.3" x 5.5" x 8.5" WEIGHT 2.0 7-1656-17 LOCATION Duct Bay - Fuselage Floor Sta. 492.33 7-1656-113 7-1100-3 sht 6 FUNCTION Acts as a safety valve (ll p.s.i.g.) in the REF. M.D.R. fuselage tank pressurization system to protect tanks from over-pressurization due to regulator failure or during rapid climb. Also acts as a remotely controlled RELIABILITY dump valve to release air from tanks during refueling. 500 OVERHAUL LIFE HRS. WASTAGE Pending Q.T.R.

CESS

USE

ENT

MEN X MINUTES
EST. ACTUA

1 x 12

1 x 180

INSPECT	TON	OPERATION	TO BE PERFORMED		MEN X N	MINUTES
PERIO	D	OI ZAMITION	TO DD TDATORMOD		EST.	ACTUAL
Primary Airfram Electri	e Check	for security of v	alve and piping. tor for security	•	1 x 1 1 x 1	
25 Hour Airfram Electri	e Functi 71/MAI cs Check corros Functi	Check valve and piping for security, corrosion and damage Function Test. (See Maintenance Instructions Report 71/MAINT 16/2)  Check electrical connector and solenoid for security, corrosion and damage. Function Test Electrics. (See Maintenance Instructions Report 71/MAINT 11/7)				
	Throug	ACCESSIBILITY The electrics access			1 x 4½	
SSUE	1	2	3	4	5	
ISSUE DATE		<u> </u>	3 20 Feb. 57	4 29 Aug. 57	5 20 Nov	
	1 _25 Oct. 55 G. Emmerson	2 14 Feb. 56 G. Emmerson	3 20 Feb, 57 Sgt Bell	4	5 20 Nov P.A. B J. Bru	ell Sg

		LUBRICATI	ON NIL		
APPLICATION	MATERIAL	SPECIFICATION	FREQUENCY	ACC	ESS
DETAILS:					
		GROUND SUPPORT	EQUIPMENT		
SPECIAL	TOOLS FOR AIRCRAFT	USE	SPECIAL	TOOLS FOR BENCH	USE
Wig-O-Flex	Tools		N	IL	
GROU	JND TESTING EQUIPMEN	r -	GROUND	HANDLING EQUIPMEN	T
0-25 p.s.i.	ion air supply - g. Air Pressure ( oner and Generato	lauge	Workstand		
INTERCHANGEABI	LE X	REMOVAL INS	TRUCTIONS		MEN × MINUTE
REPLACEABLE					EST. ACTU
Electrics Airframe	1. Disconnect 2. Remove upst 3. Remove refe 4. Disconnect Drain pipe 5. Disconnect and remove 6. Remove pane 7. Disconnect tube joint.	l electrical con and remove clamp ream pressure ser rence pressure ser and remove air re ass y 761656-149 2 bonding jumpers pipe 7-1656-259 1 7-1056-2261 frowig-o-flex coupling	ass!y - 7-1656 nsing pipe ass!y ensing pipe ass 70 elease valve ove s, 2 wig-o-flex om valve mounting at valve to	-223 y -7-1656-143 y -1656-151 erboard couplings ng structure flame trap	e 1x2
			Remove and repl	ace	x 48

NTENANCE ARCRAFT LTD. sh K. Knowlton RER'S PART NO. 2-3

RER'S NAME Schulz PEC. E-337

size 5.5" x 4.10 Inside No. 2 Fu

Operates No.

IMPECTION PERIOD	
i Refuel	Opera
irframe &	valva
Lectrics	out t
	No.
	weel
ð Hr.	Chec
irframe &	dama
Lectrics	Carr
	sub=
	Repo
	Func
	Inst
	1110

Re Re

Re

Jan 2/57
Sgt. Bell
C. Beanlan
R.F. Reid

***	TENANCE		UKB	STEM FUEL	REF. NO. 16-71
AVRO A	IRCRAFT LTD. STANDARD +	A /C MAID TO	ing Div.	DMPONENT	11-E214
		A	rrow 1	No. 2 Tar	
A. Cornish S. Brown	K. Knowlton	EFF. A/C - 2	5201	Level Sensing Val (Type 2)	lve )
MANUFACTURE		5=61 ool & Mfg. Co. (c		RO PART NO.	
Coast)		E.O. NO.		7-1654-36	61
ENVELOPE SIZI	E 5.5" x 4.10"	x 4.05 98 WEIGHT	1.75 LB. RE	F. DWGS.	4
				7-1654-18 7-1100-2	
LOCATION In	nside No. 2 Fuel	Tank		7-1100-3	
valve by s	sensing a real of	tank refueling s r simulated "Tank	shut off RE	EF. M.D.R.	1
COURT OF OTT	,		-	RELIABIL	ITY
			w	VERHAUL LIFE 500 ASTAGE T.R. Pending	HRS.
INSPECTIO	N ,	277P4 MOV			MEN × MINUTE
PERIOD		OPERATION	TO BE PERFORMED		EST. ACTU
On Refuel Airframe Electrics 25 Hr. Airframe Electrics	& valve is out the No. 2 ta weel. Se Check va damage. Carry ou sub-syst Report in	on of this unit are checked on each pre-refuel check ink indicator light with an electrical and electrical a functional class in accordance of MAINT 16/3 in check fuel systicions Report 71/M	refueling opera as required, an at on E23 panel structions Repor al connector for heck of the refu with Maintenanc em electrics = S	d observing in left wheel t 71/MAINT 16/3 security and eling/defueling e Instructions	1 x ½ 1 x 2 Pending Pending
		ACCESSIBILIT	<u> </u>		
		M.O.O.O.O.O.O.O.O.	1		
	D		ver tank = 6 lat	ches.	
	Remove	dorsal fairing o	ver tank = 6 lat	cches. and replace	1 x 2
		dorsal fairing o	ver tank - 6 lat Remove	and reprace	Link
	Remove	dorsal fairing o	ver tank - 6 lat Remove 1 - 36 bolts Remove	and replace	1 x 2 1 x 12 1 x 4
	Remove	dorsal fairing o	ver tank - 6 lat Remove 1 - 36 bolts Remove	and replace	1 x 12
RSTIP	Remove	dorsal fairing o tank access pane structural tie b Total = Rem	ver tank - 6 lat Remove 1 - 36 bolts Remove ar No. 17 - 2 bo	and replace	1 x 12 1 x 4
ISSUE DATE	Remove	dorsal fairing of tank access pane structural tie box Total - Rem	ver tank - 6 lat Remove 1 - 36 bolts Remove ar No. 17 - 2 bo ove and replace	and replace and replace lts.  4 9 Oct. 57	1 x 12 1 x 4
	Remove Remove  Jan 2/57	dorsal fairing of tank access pane structural tie b Total - Rem	ver tank - 6 lat Remove 1 - 36 bolts Remove ar No. 17 - 2 bo ove and replace	and replace and replace lts.  4 9 Oct. 57 P.A. Bell Sgt	1 x 12 1 x 4
DATE	Remove	dorsal fairing of tank access pane structural tie box Total - Rem	ver tank - 6 lat Remove 1 - 36 bolts Remove ar No. 17 - 2 bo ove and replace	and replace and replace lts.  4 9 Oct. 57	1 x 12 1 x 4

APPLICATION MATERIAL SPECIFICATION PREQUENCY ACCESS  DETAILS:    CROUND SUPPORT EQUIPMENT   SPECIAL TOOLS FOR BENCH USE			LUBRICA	TION NIL		
DETAILS:  GROUND SUPPORT EQUIPMENT  SPECIAL TOOLS FOR AIRCRAFT USE  NIL  OROUND TESTING EQUIPMENT  Refueler Air Conditioner & Generator A-C  INTERCHANGEABLE X  REMOVAL INSTRUCTIONS  Airframe  1. De-fuel L.H. A/C system. 2. Remove dorsal fairing tank access panel and structural tie bar No. 17. 3. Instalt tank protective mat. 4. Disconnect 2 x 1/4 servo lines. 5. Remove 4 attachment bolts.  Electrics  Disconnect electrical connector,  Remove and replace  1 x 40	A DDI ICA TION	MATERIAL	SPECIFICATION	FREQUENCY		ACCESS
GROUND SUPPORT EQUIPMENT  SPECIAL TOOLS FOR AIRCRAFT USE  NIL  NIL  NIL  Refueler Air Conditioner & Generator A-C  Maintenance Platform 4G/1596 Mats - Wing Tank Protective Mat.  INTERCHANGEABLE X REMOVAL INSTRUCTIONS  REPLACEABLE  1. De-fuel L.H. A/C system. 2. Remove dorsal fairing tank access panel and structural tie bar No. 17. 3. Install tank protective mat. 4. Disconnect 2 x 1/4 servo lines. 5. Remove 4 attachment bolts.  Electrics  Disconnect electrical connector,  Remove and replace  1 x 40	APPLICATION				College.	
NIL  CROUND TESTING EQUIPMENT  Refueler Air Conditioner & Generator A-C  NIERCHANGEABLE X  REMOVAL INSTRUCTIONS  Airframe  1. De-fuel L.H. A/C system. 2. Remove dorsal fairing tank access panel and structural tie bar No. 17. 3. Install tank protective mat. 4. Disconnect 2 x 1/4 servo lines. 5. Remove 4 attachment bolts.  Electrics  Disconnect electrical connector,  Remove and replace  NIL  REPLACEABLE INITATION S  NAMEN X MINUTE EST. ACTU	DETAILS:				eria ora	
NIL  CROUND TESTING EQUIPMENT  Refueler Air Conditioner & Generator A-C  NIERCHANGEABLE X  REMOVAL INSTRUCTIONS  Airframe  1. De-fuel L.H. A/C system. 2. Remove dorsal fairing tank access panel and structural tie bar No. 17. 3. Install tank protective mat. 4. Disconnect 2 x 1/4 servo lines. 5. Remove 4 attachment bolts.  Electrics  Disconnect electrical connector,  Remove and replace  NIL  REPLACEABLE INITATION S  NAMEN X MINUTE EST. ACTU			GROUND SUPPOR	T EQUIPMENT		
Refueler Air Conditioner & Generator A-C  Refueler	SPECIAL 3	rools for AIRCRAF			OOLS FOR BENC	CH USE
Refueler Air Conditioner & Generator A-C  NITERCHANGEABLE X REMOVAL INSTRUCTIONS  REPLACEABLE X REMOVAL INSTRUCTIONS  Airframe  1. De-fuel L.H. A/C system. 2. Remove dorsal fairing tank access panel and structural tie bar No. 17. 3. Install tank protective mat. 4. Disconnect 2 x 1/4 servo lines. 5. Remove 4 attachment bolts.  Electrics  Disconnect electrical connector.  Remove and replace  1 x 40		NIL			NIL	
Air Conditioner & Generator A-C  Maintenance Platform 4G/1596 Mats - Wing Tank Protective Mat.  MEN X MINUTE EST. ACTU  Airframe  1. De-fuel L.H. A/C system. 2. Remove dorsal fairing tank access panel and structural tie bar No. 17. 3. Install tank protective mat. 4. Disconnect 2 x 1/4 servo lines. 5. Remove 4 attachment bolts.  Electrics  Disconnect electrical connector.  Remove and replace  1 x 40	GROUN	D TESTING EQUIPME	NT	GROUND HA	ANDLING EQUIP	MENT
Airframe  1. De=fuel L.H. A/C system. 2. Remove dorsal fairing tank access panel and structural tie bar No. 17. 3. Install tank protective mat. 4. Disconnect 2 x 1/4 servo lines. 5. Remove 4 attachment bolts.  Electrics  Disconnect electrical connector.  Remove and replace  1 x 40		oner & Genera	tor A-C	Maintenance Plat Mats - Wing	tform 4G/159	96
Airframe  1. De-fuel L.H. A/C system. 2. Remove dorsal fairing tank access panel and structural tie bar No. 17. 3. Install tank protective mat. 4. Disconnect 2 x 1/4 servo lines. 5. Remove 4 attachment bolts.  Electrics  Disconnect electrical connector.  Remove and replace  1 x 40	INTERCHANGEABLE	T <sub>x</sub>	PENOVALI	NSTRUCTIONS	·	MEN × MIN
<ol> <li>De-fuel L.H. A/C system.</li> <li>Remove dorsal fairing tank access panel and structural tie bar No. 17.</li> <li>Install tank protective mat.</li> <li>Disconnect 2 x 1/4 servo lines.</li> <li>Remove 4 attachment bolts.</li> </ol> Electrics Disconnect electrical connector. Remove and replace 1 x 40	REPLACEABLE		KEMOTALI	KS   K OC     O KS		EST. A
Remove and replace 1 x 40	2. Remove of No. 17. 3. Install	dorsal fairing tank protectivect 2 x 1/4 ser	tank access pand we mat. wo lines.	el and structural t	cie bar	
	5. Remove A	mainty,				
(Time to defuel not included)	5. Remove A	lectrical conn	ector,	Romerce and mark		7 10
	5. Remove A				.ce	1 x 40
	5. Remove A				.ce	1 x 40
	5. Remove A				.ce	1 × 40
	5. Remove A				.ce	1 x 40
	5. Remove A				.ce	1 x 40
	5. Remove A				.ce	1 x 40
	5. Remove A				.ce	1 x 40
	5. Remove A				.ce	1 × 40
	5. Remove A				.ce	1 x 40

MAINTENAN

AVRO ARCRAFT LTD

KIRIBUTION: STANDARD +

A. Cornish

K. Kno

NUFACTURER'S PART NO.

ANUFACTURER'S NAME S

ROCAN SPEC. E460

WELOPE SIZE 10.051

LOCATION Duct Bay - Mc

ing while acting w sensing valve. (b) Permits fuel to

(b) Permits fuel to discharge pressure fuel pressure regu 2. Permits flow in to by-pass the tra malfunction.

Inspection Period	
On Refuel	0
Airframe &	V
Electrics	c
	t
	(
25 Hr.	(
Airframe	(
Electrics	
Airframe &	1
Electrics	7
	On Refuel Airframe & Electrics  25 Hr. Airframe Electrics  Airframe

DATE Feb. 22/4
COMPILED Sgt P.A.
CHECKED C. Bean.
APPROVED R.F. Re:

SYSTEM MAINTENANCE DATA RECORD ACCESS FUEL SYSTEM AVRO AIRCRAFT LTD. Engineering Div. 11-E215 DISTRIBUTION: STANDARD + A/C TYPE - Arrow 1 COMPONENT Valve A. Cornish EFF. A/C - 25201. K. Knowlton By-Pass And Refueling S. Brown Shut-Off L.H. (NO. 2 Tank) MANUFACTURER'S PART NO. 3-456-51 ISS. "E" AVRO PART NO. MANUFACTURER'S NAME Schulz Tool & Mfg. Co. 7-1656-121 AVROCAN SPEC. E460 E.O. NO. REF. DWGS. 7-1656-1 ENVELOPE SIZE 10.05" x 5.95" x 4.875" WEIGHT 2.50 est LB. 7-1656-197 & 8 ENCH USE 7-1654-18 LOCATION Duct Bay - Mounted on Tank Bulkhead Sta. 478.0 7-1100-R Sh 28 FUNCTION (a) Admists fuel to No. 2 tank during refuel-REF. M.D.R. ing while acting under control of No. 2 tank level sensing valve. (b) Permits fuel to re-circulate to No. 2 tank if pump UIPMENT RELIABILITY discharge pressure becomes excessive due to a faulty 500 OVERHAUL LIFE fuel pressure regulator. HRS 2. Permits flow in the reverse direction to allow fuel WASTAGE Pending 1596 to by-pass the transfer pump in the event of a pump malfunction. MEN × MINUTES INSPECTION OPERATION TO BE PERFORMED ACTUAL PERIOD MEN X MINUTE Operation of this valve and its associated level sensing EST. ACTE On Refuel valve is checked on each refueling operation by carrying Airframe & out the pre-fueling check as required and observing No. 2 Electrics tank indicator light on E-23 panel in the left wheel well (See Maintenance Instructions Report 71/MAINT 16/3.) Check valve for security, damage, corrosion and leakage. 1 x 2 25 Hr. 1 x 2 Check electrical connector for security. Airframe Electrics Pending Function check. (See Maintenance Instructions Report Airframe & 71/MAINT 16/3, 71/MAINT 16/4 and 71/MAINT 11/7 Electrics 1 x 40 ACCESSIBILITY Through electrics access door - 74 camlocs. 1 x 75 Remove and replace ISSUE DATE 7 Oct. 57 P.A. Bell Sgt Feb. 22/57 COMPILED Sgt P.A. Bell J. Brumfit CHECKED C. Beanland

APPROVED

R.F. Reid

R.F. Reid

		LUBRIC	CATION NIL	
APPLICATION	MATERIAL	SPECIFICATION	FREQUENCY	ACCESS
				CHARLES TO THE
			- 4 - 4	
ETAILS:				
SDECIAL	TOOLS FOR AMERICA	***************************************	RT EQUIPMENT	
SPECIAL	TOOLS FOR AIRCRAF	T USE	SPECIAL TOOLS	FOR BENCH USE
Wig-O-Flex T	ools		NIL	
GROUNI	D TESTING EQUIPMEN	1T	GROUND HANDI	ING EQUIPMENT
			THE TANKE	~ 4 0 MENI
Air Condition	oner & Generat	or A-C	Maintenance Platform	m 4G/1596
	air supply - 85	p.s.i.g.	Workstand	
PLACEABLE	x	REMOVAL	INSTRUCTIONS	MEN × MINUTES
				EST. ACTUAL
lectrics				
. Disconnec	et l electrical	connector.	Domesee	
irframe			Remove and replace	1 x 2
. Defuel A/	C fuel system.			
<ul> <li>Remove co</li> </ul>	toth gir guet	section #7-225	6-111	
. Disconnec	t and remove put 2 bonding jun	imp inlot		
DISCOURSE	L and remove m	imn diachan		
remove fu	el transfer nin	bord & MIReOFL	lex couplings, and	
T .	t nrimary and c	enondo-	hleed lines	9.
Discomec	nounting holt-	and with 3et 40	breed lines from valve	
Discomec	nounting bolts	and withdraw v	alve to rear.	
Discomec	mounting bolts	and withdraw v	aive to rear.	1 x 54
Discomed		ar old aw v	Remove and replace	1 x 54
rscomec		and withdraw v	Remove and replace	1 x 54
Discomec		ar old aw v	Remove and replace	1 x 54
Discomed		ar old aw v	Remove and replace	1 x 54
Discomec		ar old aw v	Remove and replace	1 x 54
Discomed		ar old aw v	Remove and replace	1 x 54
Discomec		ar old aw v	Remove and replace	1 x 54

MAIN AVRO AIR Cornis!

FACTURER'S

PACTURER'S past) CAN SPEC.

OPE SIZE 5

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non Opera nk by ser ndition.

Jan.
P.A.
C. Be

MAINTENANCE DATA SYSTEM REF. NO. 16-73 RECORD FUEL , AVRO AIRCRAFT LTD. Engineering Div. 11-E218 DISTRIBUTION: STANDARD + A/C TYPE - Arrow 1 COMPONENT -11-E222 A. Cornish K. Knowlton No. 4 Tank Level EFF. A/C -25201 S. Brown Sensing Valve (Type 1) AVRO PART NO. MANUFACTURER'S PART NO. 2-355-1 Rev. HFH MANUFACTURER'S NAME Schulz Tool & Mfg. Co. (c/o East 7-1600-12 Coast) AVROCAN SPEC. E337 E.O. NO. REF. DWGS. ENVELOPE SIZE 5.5" X 4.10" X 4.05" WEIGHT 1.75 LB. 7-1662-417-418 7-1100-2 SH 28 LOCATION Inside No. 4 tank - Left and Right 7-1100-3 shts 6 FUNCTION Operates refueling shut-off valve in No. 4 REF. M.D.R. tank by sensing a real or simulated "tank full" condition. RELIABILITY 500 OVERHAUL LIFE HRS. WASTAGE Q.T.R. Pending

CESS

H USE

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	INSPECTIO	ON	ODEBATION	TO BE PERFORMED	MEN X	MINUTES
MEN X MINUTES	PERIOD		OFERNION	10 DE LERFORINS	EST.	ACTUAL
l x 2	On refu Airfram & Electri	te is check	ted on each refue fueling check as licator lights on neel wells. (See	nd its associated shtu-off valing operation by carrying ou required and observing the NE23 and E24 panels in left a	t o.4 nd	
	25 Hrs. Airfram & Electri	and dame carry or sub-syst cs Report	age. it a functional c tem in accordance 71/MINT 16/3.	al connector for security heck of the refueling/defueli with Maintenance Instruction em electrics - See Maintenanc AINT 11/7	3. 10,101	
1 x 54			ACCESSIBILIT			
)		Remove :	inboard access pa	nel #4 tank = 38 screws.  Remove and replace	1 x 12	
	ISSUE	1	2	3		
	DATE	Jan. 2/57	Apr. 25/57	8 Oct. 57	7	
703-61	COMPILED	P.A. Bell Sgt	P.A. Bell Sgt	P.A. Bell sgt		
	CHECKED	C. Beanland	C. Beanland	J. Brumfit		
	APPROVED	R.F. Reid	R.F. Reid	R.F. Reid		

		LUBRIC	ATION NIL		WAI
APPLICATION	MATERIAL	SPECIFICATION	FREQUENCY	ACCESS	
					MINIBUTION L. Corni
					, Corni s, Brown
DETAILS:					NEFACTUR
					MANUFACTUR:
			, 6		izest) mocan spe
	G	ROUND SUPPO	RT EQUIPMENT		Distore Sta
SPECIAL TO	OOLS FOR AIRCRAFT T	JSE	SPECIAL TOOLS FO	R BENCH USE	MOLITION
	NIL		NIL		rection I
					iring re erel sen
GROUND	TESTING EQUIPMENT		GROUND HANDLING	EQUIPMENT	
Refueler			Cockpit Access Stand		
Air Conditio	ner and Generato	r A-C	Maintenance Platform 4	G/1596	
		a a	THIS WINE		MARA
INTERCHANGEABLE	х	REMOVAL	INSTRUCTIONS	MEN × MINUTES	PERIOD
REPLACEABLE				EST. ACTUAL	i refuel
Airframe					äfrane a
					letrics
1. Defuel ap	oplicable A/C fue	el system.		27.00	
3. Disconnec	et $2 \times 1/4$ servo	lines.			
4. Remove 2 mounting	mounting volts, brackets from ta	and withdraw	valve complete with		Sar.
5. Disassemb	ole mounting brac	kets part no	8.		intrics
> = 1/0 = =		ים ביים אידוו			
7-1662-10	075 and 7-1662-10	)// irom valv	HOMOTIC CT 3	1 x 50	
7-1662-10	075 and 7-1662-1(	D// Irom Valv	Remove and replace	1 1 70	
7-1662-10	75 and 7-1662-1(		nemove and replace		
7-1662-10	75 and 7-1662-10		nemove and replace		
7-1662-10	75 and 7-1662-1(		Remove and replace		
7-1662-10	75 and 7-1662-1(	nnector,	Remove and replace	1 x 3	
7-1662-10	75 and 7-1662-1(	nnector,			
7-1662-10	75 and 7-1662-1(	nnector,	Remove and replace		
7-1662-10	75 and 7-1662-1(	nnector,	Remove and replace		

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Operavalve out the No. 4 left at Report
Check damage Carry sub-sy Report Function

Jan. 14/57

Sgt Bell

Co. Beanland

Rop. R.F. Reid

SYSTEM REF. NO. 16-78 MAINTENANCE DATA RECORD FUEL AVRO AIRCRAFT LTD. Engineering Div. - E219 DISTRIBUTION: STANDARD + A/C TYPE - Arrow 1 COMPONENT 11-E223 A. Cornish S. Brown K. Knowlton No. 4 Tank Refueling Shut-Off EFF. A/C - 25201 Valve MANUFACTURER'S PART NO. 7-355-51 Rev. "G" AVRO PART NO. MANUFACTURER'S NAME Schulz Tool & Mfg. Co. (c/o East 7-1600-11 Coast) AVROCAN SPEC. E311 E.O. NO. REF. DWGS. ENVELOPE SIZE 5.0" x 5.05" x 4.60" WEIGHT 1.66 LB. 7-1662-417 & 418 7-1100-3 shts 6 LOCATION Inside No. 4 Fuel Tank - Left and Right 7-1100-2 sht 13 FUNCTION To control the admission of fuel to No. 4 tank REF. M.D.R. during refueling, acting under control of No. 4 tank level sensing valve. RELIABILITY OVERHAUL LIFE 500 HRS. WASTAGE Q.T.R. Pending

ACCESS

H USE

ENT

MEN X MINUTE

EST. ACTU

x 50

x 3

INSPECTI	ON		OPERATION TO BE PERFORMED	MEN X M	INUTES
PERIO	D		Or Billion 10 BB 1 Bill of BB	EST.	ACTUAL
On refuel Airframe Electrics	and	valve is out the No. 4 to left and	on of this valve and its associated level sensing schecked on each refueling operation by carrying pre-refueling check as required, and observing ank indicator lights on E23 and E24 panels in dright wheel wells. (See Maintenance Instructions 71/MAINT 16/3)	2 x ½	
25 Hr. Airframe Electrics	and	damage. Carry or sub-syst Report Function	alve and electrical connector for security and ut a functional check of the refueling/defueling tem in accordance with Maintenance Instructions 71/MAINT 16/3 n check fuel system electrics - See Maintenance tions Report 71/MAINT 11/7	2 x l Pending	
			ACCESSIBILITY		
		Remove	ACCESSIBILITY  outboard access panel - No. 4 Tank - 62 screws.  Remove and replace	1 x 21	
ISSUE	3	S. Mary	outboard access panel - No. 4 Tank - 62 screws.	1 x 21	
	2		outboard access panel - No. 4 Tank - 62 screws.  Remove and replace	1 x 21	
ISSUE DATE COMPILED		757	outboard access panel - No. 4 Tank - 62 screws.  Remove and replace	1 x 21	
DATE	Jan. 14/	57	noutboard access panel - No. 4 Tank - 62 screws.  Remove and replace	1 x 21	

		LUBRICA	TION Nil	DEATHTRIA		NAINT AVRO AIRCE	BRT LI
APPLICATION	MATERIAL	SPECIFICATION	FREQUENCY	ACCESS	ACCESS		NDARD -
APPLICATION	MATERIAL					MINUTION: 512.	
to land set			A PASE			i Cornish s Brown	K. K
DETAILS:	the start of			Townson Parent		MITACTURER'S P	ART NO.
						WACTURER'S N	IAME S
					many !	(nast)	
						mcan spec. E3	137
0147	risks from	GROUND SUPPOR	T EQUIPMENT	Discoult was		TELOPE SIZE 5.	5" x
SPECIAL	TOOLS FOR AIRCRAF	T USE	SPECIAL TOOLS	FOR BENCH USE		nation Insid	e No.
		- 1					
	7	Mary A 18	Nil		-	outton Opera	tes r
Wig-O-Flex	Tools	The second second	Nd.L		15 -	tank by sen	sing
	TO THE TOUR	NT	GROUND HANDI	LING EQUIPMENT		Mani orome	
GROUN	D TESTING EQUIPME	N1	OXOUND ININE				
			Cockpit Access Star	nd			
Pafualer							
Refueler Air Conditi	oner and Gener	rator A-C	Maintenance Platfor	rm 4G/1596			
	ioner and Gene	rator A-C	Maintenance Platfo:	rm 4G/1596			
Air Conditi		rator A-C	Maintenance Platfor	rm 4G/1596	MINITES	NSPECTION PERIOD	
		ormania vi	Maintenance Platfor	rm 4G/1596  MEN × EST.	MINUTES ACTUAL	PERIOD	
Air Conditi		ormania vi	Maintenance Platfor MATS - Wing	rm 4G/1596		PERIOD	
Air Conditi		ormania vi	Maintenance Platfor MATS - Wing	rm 4G/1596		PERIOD	V
Air Conditi	x 2	REMOVAL I	Maintenance Platfor MATS - Wing	rm 4G/1596		PERIOD  In refuel  inframe	V
Air Condition INTERCHANGEABLE REPLACEABLE Airframe 1. Defuel 2. Remove	applicable A/C	REMOVALI fuel system	Maintenance Platfor MATS - Wing	rm 4G/1596		refuel drame	v c a
Air Condition  INTERCHANGEABLE  REPLACEABLE  Airframe  1. Defuel 2. Remove 3. Disconn	applicable A/C tank access parect 2 servo ble	fuel system nel.	Maintenance Platfor MATS - Wing	rm 4G/1596		refuel drame	v c a E
Air Condition  INTERCHANGEABLE  REPLACEABLE  Airframe  1. Defuel 2. Remove 3. Disconnum 4. Disconnum 4. Disconnum 4.	applicable A/C tank access parect 2 servo ble	fuel system nel. eed lines. jumper	Maintenance Platfor MATS - Wing	rm 4G/1596		PERIOD  inclue]  inclue]  inhame  &  intrics	v c a E ((
Air Condition  INTERCHANGEABLE  REPLACEABLE  Airframe  1. Defuel 2. Remove 3. Disconn 4. Disconn 5. Disconn	applicable A/C tank access parect 2 servo ble ect 1 bonding;	fuel system nel. eed lines. jumper ex coupling.	Maintenance Platfor MATS - Wing	rm 4G/1596		refuel drame	v c a E (
Air Condition  INTERCHANGEABLE  REPLACEABLE  Airframe  1. Defuel 2. Remove 3. Disconn 4. Disconn 5. Disconn	applicable A/C tank access parect 2 servo ble	fuel system nel. eed lines. jumper ex coupling.	Maintenance Platfor MATS - Wing	rm 4G/1596		PERIOD  inclue]  inclue]  inhame  &  intrics	O V. Color and E. C. (3.
Air Condition  INTERCHANGEABLE  REPLACEABLE  Airframe  1. Defuel 2. Remove 3. Disconn 4. Disconn 5. Disconn	applicable A/C tank access parect 2 servo ble ect 1 bonding;	fuel system nel. eed lines. jumper ex coupling.	Maintenance Platfor MATS - Wing	men × Est.	ACTUAL	hrefuel Liftane & Lattrics	v c a E (

(Time to defuel not included)

Remove and replace

Electrics

1. Disconnect 1 electrical connector.

	NIPECTION PERIOD
Operatory valve carry and carry (See	refuel drame & Letrics
Check and c Carry sub-s Repor Funct Instr	Efrane A Actrics

1 x 3

AVRO AIRCRAF	T LTD.	TA RECORD  Engineering Div.	SYSTEM FUEL	REF. 16 11-	NO. -74 E226
DISTRIBUTION: STAND	ARD +	A/C TYPE -Arrow 1	COMPONENT	11-1	
A. Cornish S. Brown	K. Knowlton	EFF. A/C - 25201	No. 5 tank level valve (Type 1)		100
MANUFACTURER'S PAR	ет NO. 2-355-1 Re	ev. nFn	AVRO PART NO.		Amon
manufacturer's nam Coast) avrocan spec. E33'		& Mfg. Co. (c/o East o.	7-1600-1	.2	
ENVELOPE SIZE 5.5	10 x 4.10 00 x 4.00	50 WEIGHT 1.75 LB.	REF. DWGS. 7-1662-1	91	
LOCATION Inside	No. 5tank - Le:	ft and Right	7-1100-1 7-1100-3	2 SH 28	
tank by sens	es refueling shi ing a real or s	ut-off valve in No. 5 imulated "tank full"	REF. M.D.R.		
			RELIABIL	ITY	
			overhaul life 500 wastage o.t.r. Pending		HRS.
INSPECTION		OPERATION TO BE PERFORME	B	MEN × B	MINUTES
PERIOD		0.		EST.	ACTUA
On refuel Airframe	valve is che	this unit and its associated on each refueling ope the pre-refueling check	eration by as required	2 - 1	ione.
Electrics	and observin	g the No. 5 tank indicator	r lights on wheel wells.	2 x ½	

ESS

USE

ENT

96

MEN X MINUTES

EST. ACTUAL

1 x 43

1 x 3

INSPECTIO	INSPECTION OPERATION TO BE PERFORMED		MEN X M	MEN × MINUTES	
PERIOD		OF EXACTION	TO DD TEXT CAMED	EST.	ACTUAL
On refuel Airframe & Electrics	valve i carryin and obs	s checked on each ag out the pre-ref serving the No. 5	nd its associated shut-off refueling operation by ueling check as required tank indicator lights on ft and right wheel wells. tions Report 71/MAINT 16/3)	.2 x ½	
25 Hr. Airframe & Electrics	and dam Carry of sub-sys Report	nage. Out a functional costem in accordance	al connector for security heck of the refueling/defuel with Maintenance Instructio em electrics - See Maintenan AINT 11/7		
	Remove 20 scre	ACCESSIBILIT forward access pa ews - 9 bolts.		4	Ī
		Remo	ve and replace	1 x 10	
ISSUE	7	Remo	ve and replace	1 x 10	
	l Jan. 2/57	2.	3	1 x 10	
	1 Tan. 2/57	2 Apr. 25/57	3 8 Oct. 57 P.A. Bell Sgt	1 x 10	
DATE	l Tan. 2/57 Sgt. Bell C. Beanland	2.	3	1 x 10	

		LUBRICA	TION NIL	42415		
PPLICATION	MATERIAL	SPECIFICATION	FREQUENCY	A	CCESS	
131,34						
ETAILS;					· · · · · · · · · · · · · · · · · · ·	
		GROUND SUPPOR				
SPECIAL	TOOLS FOR AIRCRAF	FT USE	SPECIAL	rools for BENC	H USE	
	NIL		l l	IIL		
GROUN	ND TESTING EQUIPME	ENT	GROUND HANDLING EQUIPMENT			
Refueler	A SALES		Cockpit access			to the
Alr Conditi	oner and Genera	ator A-C	Maintenance Pla MATS - Wing	itform 4G/159	96	
NTERCHANGEABLI	E X				MEN ×	MINUTES
EPLACEABLE		REMOVAL	INSTRUCTIONS		EST.	ACTUAL
Airframe						
1. Defuel a	applicable A/C tank access par	fuel system. nel.				
3. Disconne	ect $2 \times 1/4$ ser	vo lines.				
4. Remove	4 mounting bolt	ts and withdraw	valve from tank.			
			Remove and repl	ace	1 x 25	
Electrics					100	
l. Disconne	ect electrical	connector.				
			Remove and repl	ace	1 x 3	
						F

MAINTENANC

AVRO AIRCRAFT LTD.

Cornish K. Knowl

HEACTURER'S PART NO.

ANUFACTURER'S NAME Sch Cast) VROCAN SPEC. E=311

VELOPE SIZE 5.0 % X 5

ocation Inside No. 5

tank during refueling Jo, 5 tank level sens 2) Allows flow in the defueling to provide

INSPECTION FERIOD	
On Refuel Airframe & Mectrics	Opervalvout the
& Hrs. Airframe & Electrics	Chec Dama Carr sub- Repo Func Inst

Remo

Oct. 25/55		_		
LRD J	-	4	_ 1	_
LRD J		_00	ct. 25/55	_
W. Himron.	.ED	ED G.	-100	
G. Emmerson	ED	DG	Danier sor	_
OVED G. Emmerson	VED	En	Lamerson	1

MAINTEN	ANCE	DATA REC	CORD	SYSTEM	REF. NO.	
AVRO AIRCRAFT			ering Div.	FUEL	16-36 11-E227	
STRIBUTION: STANDAR		1	Arrow 1	COMPONENT	11-E232	
A. Cornish K. 1 S. Brown		EFF. A/C -	25201	No. 5 Tank Refuel Valve		
MANUFACTURER'S PART	No. 7-335-	-51-2 Rev. "E"		AVRO PART NO.	17111	
manufacturer's name Coast) avrocan spec. E=311		Fool & Mfg. Co.	(c/o East	7-1600-37	7	
envelope size 5.	0" x 5.05"	х 4.60% weight	1.67 LB.	7=1662=26 7=1662=39		
LOCATION Inside l	No. 5 Fuel	Tank - Left & R	ight	7-1100-3 7-1100-2	shts 6	
tank during refi	ueling, ac	admission of fu ting under the c	el to No. 5 ontrol of	REF. M.D.R.	orespec	
a) Allows flow	in the rev	erse direction d	uring	RELIABILI	TY	
defueling to pro	ovide a me	ans of defueling	No. 5 tank.	overhaul Life 500° wastage o.r.r. Pending		
INSPECTION		OPERATION	TO BE PERFORMED		MEN X MINUTES	
PERIOD					EST. ACTUAL	
On Refuel Airframe &	Operation of this valve and its associated level sensing valve is checked on each refueling operation by carrying out the pre-refueling check as required, and observing the No. 5 tank indicator lights on E-23 and E-24 panels in left and right wheel wells.					
Electrics	out the	pre-refueling ch 5 tank indicator	eck as required lights on E-2	1° alla opport verib	2 x ½	
Electrics  25 Hrs. Airframe & Electrics	out the the No. in left  Check va Damage. Carry ou sub-syst Report 7	pre-refueling ch 5 tank indicator and right wheel lve and electric	eck as required lights on E=2: wells. eal connector for theck of the re- with Maintenant tem electrics =	and E-24 panels or Security and fueling/defueling nce Instructions	2 x l Pending Pending	
25 Hrs. Airframe &	out the the No. in left  Check va Damage. Carry ou sub-syst Report 7	pre-refueling che tank indicator and right wheel live and electricate a functional common accordance of MAINT 16/3 and the fuel systems.	eck as required lights on E=2: wells. eal connector for the reservity with Maintenant light electrics = MAINT 11/7	and E-24 panels or Security and fueling/defueling nce Instructions	2 x l	
25 Hrs. Airframe &	out the the No. in left Check va Damage. Carry ou sub-syst Report 7 Function Instruct	pre-refueling che tank indicator and right wheel live and electric ta functional common accordance 1/MAINT 16/3 a check fuel systions report 71/M	eck as required lights on E-2; wells. eal connector for the check of the resewith Maintenant cem electrics = MAINT 11/7	and E-24 panels and E-24 panels or Security and fueling/defueling nce Instructions See Maintenance	2 x l	
25 Hrs. Airframe & Electrics	out the the No. in left Check va Damage. Carry ou sub-syst Report 7 Function Instruct	pre-refueling che tank indicator and right wheel live and electricate a functional casem in accordance [1/MAINT 16/3] check fuel systations report 71/MACCESSIBILITY	eck as required lights on E-2; wells. eal connector for the research Maintenance e with Maintenance electrics - MAINT 11/7	and E-24 panels or Security and fueling/defueling nce Instructions See Maintenance  Tank = 29 screws. replace	2 x l Pending Pending	
25 Hrs. Airframe & Electrics	out the the No. in left Check va Damage. Carry ou sub-syst Report 7 Function Instruct	pre-refueling ch 5 tank indicator and right wheel lve and electric t a functional c em in accordance 1/MAINT 16/3 check fuel syst ions report 71/M  ACCESSIBILIT Dutboard access 1	eck as required lights on E=2; wells. eal connector for the research Maintenant sem electrics = MAINT 11/7	and E-24 panels or Security and fueling/defueling nce Instructions See Maintenance  Tank = 29 screws. replace	2 x 1 Pending Pending	
25 Hrs. Airframe & Electrics	out the the No. in left Check va Damage. Carry ou sub-syst Report 7 Function Instruct Remove c	pre-refueling ch 5 tank indicator and right wheel lve and electric t a functional c em in accordance 1/MAINT 16/3 check fuel syst ions report 71/M  ACCESSIBILI  butboard access 1	eck as required lights on E-2; wells. eal connector for the research Maintenance electrics - MAINT 11/7	and E-24 panels or Security and fueling/defueling nce Instructions See Maintenance  Tank = 29 screws. replace  4 16 Sept. 57 P.A. Bell Sgt	2 x 1 Pending Pending	
25 Hrs. Airframe & Electrics	out the the No. in left Check va Damage. Carry ou sub-syst Report 7 Function Instruct Remove of	pre-refueling ch 5 tank indicator and right wheel lve and electric t a functional c em in accordance 1/MAINT 16/3 check fuel syst ions report 71/M  ACCESSIBILIT Dutboard access 1	eck as required lights on E=2; wells. eal connector for the research Maintenant sem electrics = MAINT 11/7	and E-24 panels or Security and fueling/defueling nce Instructions See Maintenance  Tank = 29 screws. replace	2 x 1 Pending Pending	

IEN X MINUTES

x 25

x 3

M			LUBRICA		
DISTRIBU K, K		FREQUENCY	SPECIFICATION	MATERIAL	APPLICATION
Λ <sub>c</sub> <sup>11</sup>					
i, Uo S, Br					
WANUFAC		The second second			DETAILS:
WANUFAC					
AVROCAN					
ENVELOR		T EQUIPMENT	GROUND SUPPOR	-	
LOCATIO	3	SPECIAL TOOLS FOR BENC	r USE	OOLS FOR AIRCRA	SPECIAL
Function the companies and extended the companies and extended the companies and the		NIL	- 60	ools	Wig-O-Flex
the p		GROUND HANDLING EQUIP	VT T	D TESTING EQUIPM	GROU
in the		Cockpit Access Stand Maintenance Platform 4G/ Mats - Wing	tor A-C	oner and Gener	Refueler Air Condit
P	n × minutes				
AL Prima	ST. ACTUAL	HSTRUCTIONS	REMOVAL	X	INTERCHANGEABL REPLACEABLE
Perio (25 ho Lirfra Bectr		<b>Z</b> o	vo bleed lines. ding jumper. -0-Flex couplin ent bolts, and	emove tank acc sconnect 2 se sconnect 1 bo sconnect 1 Wi	2. H 3. I 4. I 5. I 6. H
		remove valve complete with bracket = 4 bolts.	#7-1662-391. e from mounting	ounting bracke	7. I
	x 38		#7-1662-391. e from mounting	ounting bracke	7。 I
	x 38	bracket = 4 bolts.	#7-1662-391. e from mounting	ounting bracke	7. I
	x 38	bracket - 4 bolts.  Remove and replace	#7-1662-391. e from mounting ctrical connect	ounting bracke sassemble val	7. I
	x 38	Remove and replace or. Remove and replace	e from mounting	ounting bracke sassemble val	7. I
		Remove and replace or. Remove and replace	e from mounting	ounting bracke sassemble val	7. I
		Remove and replace or. Remove and replace	e from mounting	ounting bracke sassemble val	7. I
		Remove and replace or. Remove and replace	e from mounting	ounting bracke sassemble val	7. I
gene		Remove and replace or. Remove and replace	e from mounting	ounting bracke sassemble val	7. I
ESUE MTE COMPIL		Remove and replace or. Remove and replace	e from mounting	ounting bracke sassemble val	7. I

SYSTEM REF. NO. 16-68 MAINTENANCE DATA RECORD FUEL Engineering Div. AVRO AIRCRAFT LTD. 11-E228 DISTRIBUTION: STANDARD + A/C TYPE - Arrow 1 COMPONENT 11-E233 K. Anowlton. EFF. A/C - 25201 Sensor - Liquid Level. Cornish Brown. AVRO PART NO. MANUFACTURER'S PART NO. FG-56-G ISSK MANUFACTURER'S NAME Minneapolis Honeywell. 7-1662-981 AVROCAN SPEC. E503 and E.362E.O. No. REF. DWGS. ENVELOPE SIZE 3.16" x 1.22" x 1.16" .25 7-1662-191/2 7-1654-213 USE LOCATION In No. 5 (Collector tank) mounted on Rib #2 7-1100-3 sheet 6. FUNCTION Senses the "low level" condition of fuel in REF. M.D.R. the collector tank and transmits power to operate 16-18 an external relay (low level warning switch), which actuates the "Low Level" warning light in RELIABILITY the pilots cockpit. This will occur when fuel level OVERHAUL LIFE 1500 in the collector tank falls to 70 + 3%. WASTAGE Q.T.R. Minn H well - AEX 25154. 96 MEN X MINUTES INSPECTION OPERATION TO BE PERFORMED EST. ACTUAL. PERIOD MEN X MINUTES EST. ACTUAL Primary Periodic Defuel aircraft and ensure that low level warning light (25 hours) comes on at the correct level as determined by capacitance Airframe and test equipment (See Maintenance instructions reports Electrics. 71/MAINT 11/7, 71/MAINT 16/4 and 71/MAINT 12/3 Pending. 1 x 38 ACCESSIBILITY Throught Booster Pump Access Panel-No. 5 tank. 1 x 3 Remove rear Dorsal Fairing. 6 latches. 1 x 2 1x 10 Remove Damping Equipment as required. 1 x 30 Remove Booster Pump Access Panel - 61 screws - 31 bnlts. ISSUE DATE 26 June 56 10 Dec. 1957 31 Jan. 57 COMPILED PA Bell Sgt. P.A. Bell Sgt. PA Bell Sgt. CHECKED C.Beanland. C.Beanland K. Lowe. APPROVED G.Emmerson. G.Emmerson. R.F.Reid.

		LUBRIC	ATION NIL		THINT	ENA
APPLICATION	MATERIAL	SPECIFICATION	FREQUENCY	ACCESS	INO AIRCR	RAFT L
					BITION: STAY	NDARD
					indah K	K. Kn
DETAILS:					STREET P	ART N
					PATTREET'S NA	AME
					mirec. E	337
		GROUND SUPPO	RT EQUIPMENT		mile 5	5 H
SPECIAL	TOOLS FOR AIRCRA	Access to Manager Total and Access to the		TOOLS FOR BENCH USE		•/
					n Insid	de 1
	NITT					
	NIL		NII	_	n Operat	
					Ellon.	45 d
	D TESTING EQUIPME		GROUND	HANDLING EQUIPMENT		
ir Conditioner efuel <b>e</b> r Fuel (			Cockpit Access S Mats - Wing.	Stand.		
Pressurized Air	Supply - 85 p	si. max.	Maintenance Plat	form - 4G/2614		
INTERCHANGEABLE					PICTION	
REPLACEABLE	x	REMOVAL	INSTRUCTIONS	EST.	MINUTES IN ACTUAL	_
2. Remove Booster 3. Remove Electri	rear Dorsal Fa Fump Access F 3 mounting scr	al connector.  Remove	em. Equipment, and and Replace. fuel not included)	1 x 2 1 x 50	1728 1735 1745 1745 1745	t t t t t t t t t t t t t t t t t t t
					1 Dec. 26	/57

• 10 1000		DATA REC	UKU	FUEL		-76
	RAFT LTD.	A/C TYPE - Ar		COMPONENT	lleI	
DISTRIBUTION: STA				No. 7 Tank	11 => H	5242
A. Cornish	K. Knowlton	EFF. A/C -	25 <b>2</b> 01	Level Sensing Val	ve (Type	2 1)
	part no. 2-355-1	Rev. "F"		AVRO PART NO.	( - ) PC	-)
MANUFACTURER'S Coast) AVROCAN SPEC.		ol & Mfg. Co. (c,	/o East	7-1600-1	2	
	5 5 11 x 4.10 11 x	4.05 <sup>88</sup> WEIGHT	1.75 LB.	REF. DWGS. 7-1662-2	3 & 24	
				7-1100-2	SH 29	
ocation Ins	side No. 7 Fuel	Tank - Left and	Right	7=1100⊶3	shts 6	
0	-otos mofueling	shut-off valve	in No. 7	DEE WES		
tank by sens	sing a real or	simulated "Tank	Full "	REF. M.D.R.		
COUGTATORS				RELIABIL	ITY	
				OVERHAUL LIFE 500		HRS.
				WASTAGE		
			Delta	Q.T.R. Pending		
INSPECTION		OPERATION (	TO BE PERFORMED		MEN × N	TUNIN
PERIOD		OI DAN HON			EST.	ACT
On Refuel Airframe & Electrics	is checked the pre-re No 7 tank	d on each refuel efueling check a indicator light right wheel well	ling operation as required and ts on E23 and 1 ls. (See Maint	E24 panels in	2 x ½	
	Instructi	ons Report 71/M	AINT 16/3)			13
25 Hour	Check val	ve and electrics	al connector f	or security	2 x 1	
	and damag					
Airframe & Electrics	sub-syste	m in accordance	heck of the re with Maintena	fueling/defueling nce Instructions	Pending	
				See Maintenance	LIGORIE	
	Function	ons report 71/M	AINT 11/7		Pending	
	THE OT WO OT					-
		ACCESSIBILIT	Y			
	Remove in	nboard access pa	nel #7 tank -	23 screws, 6 bolts		
			Haracan Mile	and replace	1 x10	
			Kemove	and reprace		
			0			
ISSUE	1	2	8 Oct. 57			
0.4.	ec. 26/57	Apr. 26/57	P.A. Bell Sa	7†.		
COMPILED	gt P.A. Bell	Sgt Pl A.Bell	P.A. Bell S	· ·		
		7	T TO COLD			
	. Beanland	C. Beanland R.F.Reid	J. Brumfit R.F. Reid			

		LUBRICA	TION NIL	ACCI	ESS		AVRO
APPLICATION	MATERIAL	SPECIFICATION	F KEQUENC I				ISTRIBUTION
							A.Cor
K med m			1 7 8 2 3 4				S.Bro
DETAILS:							UNUFACTUE
DETAILS.							BHUPACTUR
							(OBST) AVROCAN SPI
		GROUND SUPPOR	T EQUIPMENT				myelope Si
SPECIAL T	TOOLS FOR AIRCRAI	TT USE	SPECIAL TOOL	S FOR BENCH	USE		LOCATION
:		4					
	NIL		NII	L,			TOTTION
	600						fank dur 7 tank 1
	W			DI DIG BOLDING	T/D		- POTTY T
GROUN	D TESTING EQUIPME	ENT	GROUND HANI	DLING EQUIPMEN	(1)		
Refueler			Cockpit Access Sta	and			
Air Conditi	oner and Gener	ator A-C	Maintenance Platfo	orm 4G/1596			
			MATS - Wing				DISPECT
							PERIO
INTERCHANGEABLE					MEN X B	MINUTES	5
INTERCHANGEABLE REPLACEABLE	X	REMOVAL	NSTRUCTIONS		EST.	ACTUAL	h Refus
REPLACEABLE	X	REMOVALI	NSTRUCTIONS			_	
REPLACEABLE	X	REMOVAL I	NSTRUCTIONS			_	lirframe
	X	REMOVAL I	NSTRUCTIONS			_	lirframe
Airframe  l. Defuel a	applicable airc	eraft fuel system				_	lirframe
Airframe  1. Defuel a 2. Remove t	applicable airc	eraft fuel system	1.			_	Lirframe Rectric
Airframe  1. Defuel a 2. Remove t	applicable airc	eraft fuel system	·aw~walve from tank.		EST.	_	lirframe Nectric
Airframe  1. Defuel a 2. Remove t	applicable airc	eraft fuel system	1.			_	lirframe Tectric Sirs Lirfram &
Airframe  1. Defuel a 2. Remove t	applicable airc	eraft fuel system	·aw~walve from tank.		EST.	_	lirframe Tectric Sirs Lirfram &
Airframe  1. Defuel a 2. Remove t 3. Disconne	applicable airc ank access pan ct 4 mounting	eraft fuel system nel. bolts and withdr	·aw~walve from tank.		EST.	_	lirframe Tectric Sirs Lirfram &
Airframe  1. Defuel a 2. Remove t 3. Disconne	applicable airc	eraft fuel system nel. bolts and withdr	·aw~walve from tank.		x 25	_	lirframe Tectric Sirs Lirfram &
Airframe  1. Defuel a 2. Remove t 3. Disconne	applicable airc ank access pan ct 4 mounting	eraft fuel systemel. bolts and withdr	raw valve from tank.  Remove and replace  Remove and replace		EST.	_	ürframe Nectric SHrs Erframe &
Airframe  1. Defuel a 2. Remove t 3. Disconne	applicable airc ank access pan ct 4 mounting	eraft fuel system nel. bolts and withdr	raw valve from tank.  Remove and replace  Remove and replace		x 25	_	lirframe
Airframe  1. Defuel a 2. Remove t 3. Disconne	applicable airc ank access pan ct 4 mounting	eraft fuel systemel. bolts and withdr	raw valve from tank.  Remove and replace  Remove and replace		x 25	_	ürframe Nectric SHrs Erframe &
Airframe  1. Defuel a 2. Remove t 3. Disconne	applicable airc ank access pan ct 4 mounting	eraft fuel systemel. bolts and withdr	raw valve from tank.  Remove and replace  Remove and replace		x 25	_	ürframe Nectric SHrs Erframe &
Airframe  1. Defuel a 2. Remove t 3. Disconne	applicable airc ank access pan ct 4 mounting	eraft fuel systemel. bolts and withdr	raw valve from tank.  Remove and replace  Remove and replace		x 25	_	ürframe Nectric SHrs Erframe &
Airframe  1. Defuel a 2. Remove t 3. Disconne	applicable airc ank access pan ct 4 mounting	eraft fuel systemel. bolts and withdr	raw valve from tank.  Remove and replace  Remove and replace		x 25	_	ürframe Nectric SHrs Erframe &
Airframe  1. Defuel a 2. Remove t 3. Disconne	applicable airc ank access pan ct 4 mounting	eraft fuel systemel. bolts and withdr	raw valve from tank.  Remove and replace  Remove and replace		x 25	_	lirframe Tectric Sirs Lirfram &
Airframe  1. Defuel a 2. Remove t 3. Disconne	applicable airc ank access pan ct 4 mounting	eraft fuel systemel. bolts and withdr	raw valve from tank.  Remove and replace  Remove and replace		x 25	_	ürframe Nectric SHrs Erframe &
Airframe  1. Defuel a 2. Remove t 3. Disconne	applicable airc ank access pan ct 4 mounting	eraft fuel systemel. bolts and withdr	raw valve from tank.  Remove and replace  Remove and replace		x 25	_	ürframe Nectric SHrs Erframe &
Airframe  1. Defuel a 2. Remove t 3. Disconne	applicable airc ank access pan ct 4 mounting	eraft fuel systemel. bolts and withdr	raw valve from tank.  Remove and replace  Remove and replace		x 25	_	ürframe Nectric SHrs Erframe &

	MAINTE	NANCE I	DATA RE	CORD	SYSTEM FUEL	REF. NO.	
	AVRO AIRCRA		Engine	ering Div.	FUEL	16-80 11-E237	
T	DISTRIBUTION: STAN	DARD +	A/C TYPE -	Arrow 1	COMPONENT	11-E24	
	A.Cornish	K. Knowlton	EFF. A/C -	25201	No. 7 Tank - Refu		,
	S.Brown	116 11101111011			Shut-Off Valve		
	MANUFACTURER'S PA	RT NO. 7-355-5	l Rev. "G"		AVRO PART NO.		
		*					
		ME Schulz Tool	& Mig. Co. (c	/o East	7-1600-11		
	Coast)	≈311 E.O	. NO.				
1	ENVELOPE SIZE 5.	$0^{n} \times 5.05^{n} \times 4$	.60 <sup>N</sup> WEIGHT	1.66 LB.		261 & 262	
	Thatda	e No. 7 Fuel Ta	ank = Left and	Right	7-1662-2	The state of the s	
1   '	LOCATION INSIG	3 NO. / Puel 1	in - her and	ICIGILO	7-1100-3 7-1100-2		
					, =====	2110 27	
		control the ad			REF. M.D.R.		
	Tank during re	efueling, actin	ng under the c	ontrol of No.			
	7 tank level :	sensing valve.					
					RELIABIL	IT Y	
					overhaul life 500	HRS	3.
					WASTAGE	Heed as	
					Q.T.R. Pending		
	INSPECTION	T	ODB DA MION	TO DE DEDUCATION		MEN × MINUT	TES
	PERIOD		OPERATION	TO BE PERFORMED	2.17	EST. ACT	TUAL
MINUTE			2		1-111		
ACTE	On Refuel	Operation of	of this valve	and its associ	ated level sensing ration by carrying		
	Airframe & Electrics	out the re	fueling check	as required, a	nd observing No.7		
	Broc or You	tank indica	ator lights on	E23 and E24 p	anels in left		
		and right	wheel wells. (	See Maintenand	e Instructions	2 1	
		Report 71/1	MAINT 16/3)			$2 \times \frac{1}{2}$	
	25Hrs	Check welv	e and electric	al connector f	or security and		
	Airframe	damage.				2 x 1	
	&	Carry out	functional che	ck of the refu	eling/defueling		
	Electrics	sub-system	in accordance	with Maintens	nce Instructions	Pending	
		Report 71/1	MAINT 16/3			I Chars	
		Function cl	heck fuel syst	em electrics =	See Maintenance		
		I dire of one of	TOOK TOOL DIE			Pending	
		Instruction	ns Report 71/M	AINT 11/7			
		Instruction	ns Report 71/M	AINT 11/7			
		Instruction	ACCESSIBILIT	AINT 11/7	er-Taoloffe, (A. I. Dao		
			ACCESSIBILIT	AINT 11/7	ier Idolnitijska i Pak	and by	
			ACCESSIBILIT	AINT 11/7	ier Idolnitijska i Pak		
				AINT 11/7  Y el - No. 7 Tar	k - 29 screws.		
			ACCESSIBILIT	AINT 11/7	k - 29 screws.	1 x 10	
			ACCESSIBILIT	AINT 11/7  Y el - No. 7 Tar	k - 29 screws.		
			ACCESSIBILIT	AINT 11/7  Y el - No. 7 Tar	k - 29 screws.		
			ACCESSIBILIT	AINT 11/7  Y el - No. 7 Tar	k - 29 screws.		
	ISSUE	Remove cen	ACCESSIBILIT tre access pan	AINT 11/7  Y el - No. 7 Tar	k - 29 screws.		
	DATE Jan.	Remove cen	ACCESSIBILIT  tre access pan  2  Oct. 57	AINT 11/7  Y el - No. 7 Tar	k - 29 screws.		
	DATE Jan. COMPILED Sgt.	Remove cent	ACCESSIBILIT  tre access pan  2  Oct. 57  .A. Bell Sgt	AINT 11/7  Y el - No. 7 Tar	k - 29 screws.		
	DATE Jan. COMPILED Sgt.	Remove central lands   1	ACCESSIBILIT  tre access pan  2  Oct. 57	AINT 11/7  Y el - No. 7 Tar	k - 29 screws.		

				TION NIL				HILINT	ENANCE
٦			LUBRICA	FREQUENCY	AC	CESS		·mc	PART LTD.
	APPLICATION	MATERIAL	SPECIFICATION	FREQUENCY				Cornish Cornish Brown	K. Knowlton
	DETAILS:							-	PART NO. 2-35
-	The Burn		GROUND SUPPOR	T EQUIPMENT	TOOLS FOR BENCE	721 L		MLOPE SIZE	5.5" x 4.10"
*	SPECIAL Wig=0=Flex	Tools	FT USE	SPECIAL	NIL			KINN wotos ref	fuel tank - ueling shut- real or sim
- 		THE TRANSPORT FOLLOW	ENT	GROUND	HANDLING EQUIPM	ENT		1 MIDTHE OF	
	Refueler	ioner & Genera		Cockpit access Maintenance Pla MATS - Wing	stand atform 4G/159	6			
1_						MEN X	MINUTES	PERIOD	
	INTERCHANGEABLE REPLACEABLE	LE X	REMOVAL	INSTRUCTIONS		EST.	ACTUAL	TENIOD	
	2. Remove 3. Discont 4. Discont 5. Discont 6. Remove bracket	#7-1662-391	nel. eed lines. jumper. ex coupling olts, and remove m mounting bracke	valve complete witet, 4 bolts.	ith mounting	1 x 3	8	inequel  iframe  increase  increase	Operation is check the pre- No. 8 talleft and Instruct Check vandamage. Carry out sub-syst Report 7 Function Instruct
		nect l electric	.1			-	_		
	L. DISCORD			ove and replace		1 x 3			Remove i
								Sgt. C. B.	1 26/56 P.A. Bell eanland Reid

55	NTENANCE		CORD	FUEL	16-77 11-E248	
	STANDARD +	A/C TYPE - Al	rrow l	COMPONENT	11-E254	
A. Cornis S. Brown	'n	eff. A/C - 252	201	No. 8 Tank Level Valve (Type 1)	Sensing	
MANUFACTURE	r's part no. 2-355	-1 Rev. "F"	4	AVRO PART NO.		
MANUFACTURE Coast) AVROCAN SPE	er's name Schulz T	c/O East	7-1600-1	2		
	E 5.5" x 4.10"	1.75 LB.	7.1662.2 7.100.2 7.1100.3	SH 29		
Inside No	. 8 fuel tank	Left and Right				
Operates	refueling shut-o	off valve in No.	8 Tank	REF. M.D.R.		
by sensi	ig a rear or sime	114004 14111 1411		RELIABIL	ITY	
				overhaul Life 500 wastage q.t.r. Pendin		
		Maintenance Plat			•	
INSPECTI	ON	operation .	TO BE PERFORMED		MEN X MINUTE	
PERIOI	)				EST. ACTU	
Airframe & Electrics 25 Hour Airframe Electrics	the pre- No. 8 to left and Instruct  Check vo damage.  Carry of sub-syst Report '	red on each refuelerefueling check ank indicator light right wheel weltions Report 71/M alve and electricat a functional ctem in accordance 71/MAINT 16/3. In check fuel systtions Report 71/M	as required, a thts on E23 and ls. (See Mainte MAINT 16/3 al connector fo theck of the refer with Maintenan tem electric = S	nd observing the E24 panels in nance  r security and ueling/defueling ce Instructions  ee Maintenance	2 x ½ 2 x l Pending Pending	
		ACCESSIBILIT	Y			
		inboard access pa	nel #8 tank = 2	9 screws.		
	Kemove	THOORIG Access ba	Remove and r		1 x 10	
			Ifomove criter a			
ISSUE			2			
DATE	Dog 26/21	2 26 /577	8 Oct. 57			
	Dec. 26/56	Apr. 26/57 Sgt P.A. Bell	P.A. Bell Sgt	,		
COMPILED		Der Love perr	1 0110 1011			
CHECKED	Sgt. P.A. Bell C. Beanland	C. Beanland	J. Brumfit			

				100000	
PPLICATION	MATERIAL	SPECIFICATION	FREQUENCY	ACCESS	
	Land S		all me cont		
DETAILS:		, , , , , , , , , , , , , , , , , , ,	ar an arm a	NAME OF THE OWNER OF THE OWNER.	
		GROUND SUPPOR	T EQUIPMENT	Office of the second	
epecial.	TOOLS FOR AIRCRAF			S FOR BENCH USE	
	NIL	785 VIII 140	NIL		
GROU	ND TESTING EQUIPME	ENT	GROUND HAN	DLING EQUIPMENT	
Refueler Air Condit	ioner and Gener	ator A-C	Cockpit Access St Maintenance Platf MATS-Wing	orm 4G/1596	
INTERCHANGEABI	LE X	REMOVALI	NSTRUCTIONS	MEN × MIN	
REPLACEABLE				EST. A	CTUAL
2. Remove	applicable air tank access pa nect 2 x 1/4 se 4 mounting bol	nel.	valve from tank.		
40			e and replace	1 x 25	
Electrics					
l. Discon	nect electrical	connector.	Remove and replac	1 x 3	
		(Time to defue	l not included)		

WAINTENANCE

WATON ARCRAFT LTD.

MINTON STANDARD +

WORISH K. KNOWLEG

MICTURER'S PART NO. 7-35

MICTURER'S PART NO. 7-35

MICTURER'S NAME Schulz

MINT SEE 5.0" x 5.05 m;

MINT To control the ring refueling, actin where sensing valv

NEPECTION PERIOD	
1.5.1	Onema
Refuel	Opera
rirane &	valve
latrics	out t
	No. 8
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	Instr
ì,	Check
Thane and	damag
etrics	Carry
	sub-s
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	Insti

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	Jan. 14/57
10	
1	Sgt. Bell
40	C. Roow 7

	MAINTEN	NANCE D	ATA RE	CORD	SYSTEM	REF. NO.
CESS	AVRO AIRCRAFT	T LTD.	Engine	ering Div.	FUEL	16-81 11-E249
	DISTRIBUTION: STANDA		A/C TYPE -	Arrow 1	COMPONENT	11-E255
		. Knowlton	EFF. A/C -	25201	No. 8 Tank Refueli Valve	ng Shut-Off
	MANUFACTURER'S PAR'	т но. 7-355-51	Rev. "G"		AVRO PART NO.	
	MANUFACTURER'S NAMI	E Schulz Tool	& Mfg. Co. (	c/o East	7-1600-11	
	AVROCAN SPEC. E=31				REF. DWGS.	
H USE	ENVELOPE SIZE 5.0	x 5.05"x 4.60	) <sup>ff</sup> WEIGHT	1.66 гв.	7=1662=21 7=1662=26	
H USE	LOCATION Inside	No. 8 Fuel Tam	nk - Left and	Right	7-1100-3 7-1100-2	
	during refueling tank level sens	ntrol the admis ng, acting unde sing valve.	ssion of fuel er the contro	to No. 8 Tank ol of No. 8	REF. M.D.R.	
MENT					RELIABILI	TY
					overhaul Life 500 wastage Q.T.R. Pending	) HRS.
96						MEN × MINUTES
	INSPECTION PERIOD		OPERATION	TO BE PERFORME	D	EST. ACTUAL
	On Refuel Airframe & Electrics	out the pre- No. 8 tank :	-refueling cl indicator lis	neck as requir ghts on E23 and lls. (See Main	eration by carrying ed, and observing d E24 panels in tenance	2 x ½
1 x 25	25 Hr. Airframe and Electrics	damage. Carry out a sub-system report 71/M	functional in accordance	check of the r e with Mainten tem electrics	for security and efueling/defueling ance Instructions - See Maintenance	2 x l Pending Pending
			ACCESSIBILI	TY		
		Remove cent	re access pa	nel - Tank No.	8 = 29 screws.	
				Remove and r	eplace .	1 x 10
	ISSUE	2	2	1.		
	DATE Jan.	11/57 8	Oct. 57			
	COMME	7-	.A. Bell Sgt			
	Sgto	anland J	Brumfit			
	APPROVED R.F.		.F. Reid			
	III.of o	Troad It	0=0			

		LUBRICA	TION NIL	4 2 3 5 6 6	Tarre		VAINTE IND AIRCRAI	RT LTD.
APPLICATION	MATERIAL	SPECIFICATION	FREQUENCY	Ac	CESS		RIETION: STAND	ARD +
								, Know
							10	
DETAILS:				***			CICTURER'S PAI	
							CHICTURER'S NAI	ме Ну
							MUS SPEC. E-3	383
		GROUND SUPPOR	T FOUIPMENT				more size 3.	65" >
SPECIAL	. TOOLS FOR AIRCRA			COOLS FOR BENCH	USE		ann Duct	
							ama puce	يس
Wig=0=	Flex Tools			NIL			xmm To ser	nse ar
							the right	hand
GROI	UND TESTING EQUIPM	ENT	GROUND 1	HANDLING EQUIPM	ENT		15 0101	
				Q1 3				
Refueler Air Condit	tioner & Genera	ator A-C	Cockpit Access Maintenance Pla	Stand tform 4G/1596				
			MATS - Wing					1
INTERCHANGEAB	LE				MEN × MI	NUTES	REPECTION PERIOD	
REPLACEABLE	LE X	REMOVALI	NSTRUCTIONS		EST. A	CTUAL	(hary	Ir
Airframe							Chane Chane	in
2. Remove	applicable A/C tank access par	nel.		*			atrics	In
3. Discon	nect 2 servo blact 1 bonding	eed lines.					thur	Ir
5. Discon	nect 1 Wig-O-Flo	ex coupling.	alve completed wi	th hosteins			thane	de
plate #	<del>\$</del> 7~1662~543			on packing	-		atrics	Ir
7. Disasse	emble valve from	m backing plate - R	4 bolts. emove and replace		1 x 38			Ca
Electrics								In
	nect l electrica	el connector						
T. DISCOUR	TECO I SIGGOLICS	Remo	ve and replace		1 x 3			
		(Time to de	fuel not included	)				
								T
							1	
								1
							June Fin G	1 24/5

SYSTEM MAINTENANCE DATA RECORD REF. NO. ACCESS 16-14 11E-280 FUEL AVRO AIRCRAFT LTD. Engineering Div. DISTRIBUTION: STANDARD + A/C TYPE -COMPONENT Arrow 1 Switch - Diff. Press. Warning A. Cornish EFF. A/C -K. Knowlton 25201 RH Fuel Transfer Pump S. Brown AVRO PART NO. MANUFACTURER'S PART NO. 40032 MANUFACTURER'S NAME Hydra Electric 7-1656-9 E.O. NO. AVROCAN SPEC. E-383 REF. DWGS. ENVELOPE SIZE 3.65" x 3.0" x 3.0" WEIGHT .63 LB. NCH USE 7-1654- 18 sht 3 LOCATION Duct Bay - Sta. 485 7-1100-3 sht 6 FUNCTION To sense and signal a loss of output pressure REF. M.D.R. from the right hand fuel transfer pump. This warning signal is available for ground test purpose only. TPMENT RELIABILITY OVERHAUL LIFE 500 596 Q.T.R.WYle Laboratories 400 32-02 INSPECTION MEN X MINUTES OPERATION TO BE PERFORMED PERIOD EST. MEN X MINUTE ACTUAL EST. ACTU Primary Inspect switch and associated piping for security and indications of leakage. 1 x 1 Airframe Inspect security of electrical connector. Electrics 1 x 1 25 Hour Inspect switch and associated piping for security, Airframe damage, corrosion and leakage. 1 x 2 Electrics Inspect security of electrical connector.  $1 \times \frac{1}{2}$ Carry out a functional test. (See Maintenance 1 x 38 1 x 2 Instructions Report 71/MAINT 11/7) 1 x 3 ACCESSIBILITY Through electrics access door - 74 camlocs. Remove and replace 1 x 7= ISSUE 5 DATE June 24/55 Feb. 14/56 25 Apr. 57 20 Nov. 57 Sept. 29/55 COMPILED G. Emmerson P.A. Bell Sgt P.A. Bell Sgt G. Emmerson G. Emmerson CHECKED C. Beanland G. Emmerson J. Brumfit G. Emmerson G. Emmerson APPROVED

R.F. Reid

R.F. Reid

		LUBRICAT	ION NIL		41	NAIN AVRO AD	CRA
APPLICATION	MATERIAL	SPECIFICATION	FREQUENCY	ACCESS		AVRO ALL	TAND
chronic central	Man and his	The state of the s	- 1-100			i Knowl to	n 
DETAILS:			2002	OR PERSON IN		BUTACTURER'	
						ANUACTURER 1	
		GROUND SUPPORT	FOILIPMENT			DILOPE SIZE S	. 25
SPECIAL	TOOLS FOR AIRCRAFT		SPECIAL TOOLS FO	OR BENCH USE		MATION Duc	
				and seek			
	NIL	100 PERSON   100 P	NIL			mon Us fiselage ta blet of th	nk 1
GROUN	D TESTING EQUIPMEN	Т	GROUND HANDLING	EQUIPMENT			
Air Conditio	ner and Generato	or AC	Workstand				
					variation of	MPECTION	
NTERCHANGEABLE	x	REMOVAL IN	TRUCTIONS	MEN X	MINUTES	PERIOD	1
REPLACEABLE		KEMOTAL III.	TRUCTIONS	EST.	ACTUAL		
Electrics		l electrical con				hinary Lirîrame	
Airframe	2. Remove 2 mc	and blank off 2 unting bolts.	fuel pressure sensing	lines.		Rectrics	
			Remove and replace	1 x 15			
				10		ö Hr.	
						irframe	
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CESS		TENANCE	DATA RE	CORD	SYSTEM	REF.	and the same of th
CE22		RCRAFT LTD.		eering Div.	FUEL		16-27 -E283
	K. Knowlto		A/C TYPE -	Arrow 1	COMPONENT Pump -		
	A. Cornish	S.Brown	EFF. A/C -	25201	Fuel Transfer RH		Tank)
	MANUFACTURER	's part no. L60-0	96		AVRO PART NO.		
	MANUFACTURER	's NAME Hydro-Ai	re Inc.,		7-1656-1	16	
	AVROCAN SPEC.	E-461	E.O. NO.				
	ENVELOPE SIZE	9.25" x 8.125"	x 5.5 <sup>th</sup> weigh	6.75 est LB.	REF. DWGS. 7-1656-1 7-1656-1		
I USE	LOCATION DU	act Bay - Botto	om wing skin 🌣 St	ta. 492-497	7-1656-1 7-1100-2		
	FUNCTION 1	Ised in the fue	el transfer line	from No. 1	REF. M.D.R.		
	fuselage t	tank to equaliz	e the system preportioning unit.	essure at the	REF. M.D.R.		
ENT		Selection of the second			RELIABIL	ITY	
				x 24	OVERHAUL LIFE 1200 WASTAGE		HRS.
			2530100		Q.T.R. Hydro - Air	e - 60-0	097
	INSPECTION		OPERATION	TO BE PERFORMED		MEN X I	MINUTES
MEN X 1007	PERIOD		4	- IO DD I DIN ONNOD		EST.	ACTUA
EST. AUS	Primary Airframe	Check p	oump for security	and leakage.		1 x 2	
	Electrics	pump fu press t test sw	security of elect anction - E21 res to test lights as witch TEST. Prop ted by a green li	fuel and test pa re serviceable - per pump functio	nel. (Ensure select ground	1 x 2	
1 x 15	25 Hr. Airframe	Check p	oump and association	ted piping for s	ecurity, leakage	1 x 3	
	Electrics	100 100	on and damage. security of elections	trical connector Instructions Re	, carry out functi port 71/MAINT 11/0	on 1#2 Pending	
		1 00000	ACCESSIBILI	TY	( -		
	For Inspec	ction lectrical equip	oment access pan	el - RH section	- 44 camlocs.	1.x.4½	1.
			oment access pan alocs.	el。 move and replace	arg -	1 x 7½	
	ISSUE	7	2	3			
	DATE	20 Juen 56	30 Jan 57	20 Nov.57			
				P.A. Bell Sgt			
	COMPILED	Sat Boll	Cat Ball	L W DELT OF			
	CHECKED	Sgt. Bell C. Beanland	Sgt Bell .  C. Beanland	J. Brumfit	<u></u>		

经验

TION NIL	ATION NII	LUB											
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FREQUENCY ACCESS	FREC	SPECIFICAT	ATERIAL	
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  |  | - T  |  |  |  | 1  | м                                      | M/  
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  | MAT  | М                                     |  |  |  |  |   | -   
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  | h                               | м                                      | M A  | M                                       | М                          | м   | 1 A                                       | ATI                              | rei  | ER   | RL   | AL   | L                    | ***   |   
  | T   |  | S  | SPE  | ECIF       | FICATI  | ION  |   |   | FI  | REQU                            | ENC       | Y          |           |      |     |      |     |       |      | AC  | CI  | ESS |     |      |     |    | _   |   |   |  |  | AVR   
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   | an<br>ui<br>io                          | ar<br>ui<br>ic             | ar<br>ui<br>ic                                  | no<br>ij                                  | d properties                     | dl (   | Gemein A:  | Ge<br>en<br>Ai   | en<br>ent<br>ir                              | te                   | ra upp  | pp]  | or  
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  | hand  | nd :  | uc T  | orks                            | star<br>s |            | H         | ANE  | DLI | NG   | 3 E | ZQ I  | UEP. | ME  | A   | иел |     | : M  |     |    |     |   |   |  | nsel<br>nlet<br>rima   | of   | the         | k t       | ,  |
| MEN X MINUTE EST. ACTU  and sections.   | INSTRUCTIO  | REMOV  | ipment on Airsupp /C system. ical access g air duct -1656-383  | R.H. e elece coole tie  | CHANGEABLE  CEABLE  Frame  Defuel Framove er  Remove creater  Remove treater   | ir Conditefuel/Detank Press TERCHANGEA PLACEABLE Irframe Defuel Remove Remove   | r Condition fuel/Defuel nk Pressuri erchangeable LACEABLE rframe Defuel R. Remove el Remove co  | Conditioner a coldinary and conditioner a coldinary and co | H. A/C sysectrical a oling air e #7-1656-   | od Genera ipment on Airsup  C system cal acce gair duc 1656-383  | stem. access duct s   | erator<br>supply<br>cem.<br>cess<br>uct s   | erato  | enera nt irsup nstem acces duct  | Gene<br>ment<br>Airs<br>systeal accair do                           | d Ger<br>pment<br>on Air  
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| MEN X MINUTE EST. ACTU  and sections.   | INSTRUCTIOn nand section 56-111   | REMOV  s panel L & section.#7-  pe #7-1656-2   | ipment on Airsupp  /C system. ical access g air duct -1656-383 ransfer pip   | R.H. e elece coole tie fuel   | CHANGEABLE  CHANGEABLE  Frame  Defuel Frame  Remove ere Remove tremove tremove frame   | ir Conditefuel/Detank Press  ERCHANGEA  PLACEABLE  irframe  Defuel  Remove  Remove  Remove  | r Condition fuel/Defuel nk Pressuri erchangeable LACEABLE rframe Defuel R. Remove el Remove co Remove ti Remove fu  | Conditioner a coldinary and conditioner a coldinary and co | H. A/C sysectrical a oling air e #7-1656-el transfe   | od Genera ipment on Airsup  C system cal acce gair duc 1656-383 ansfer p   | stem. access duct s   | erator supply  em. cess uct s   | tem.   | enera nt irsup  vstem acces c duct 5-383   
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   | entir  | te.cc.du             | em.   | i.   | ly s  | p<br>se                                  | pai<br>#'                                | neeti  | on         | L & 1<br>.#7-   | R h  | hand<br>56-1  | nd :  | uc T  | orks                            | star<br>s |            | H         | A NE | DLD | NG   | 3 E | 195   | UP.  | ME  | A   | иел |     | : M  |     |    |     |   |   |  | nsel<br>nlet<br>rima   
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| MEN X MINUTE EST. ACTU  and sections.   | INSTRUCTIOn and section 56-111  | REMOV  s panel L & section.#7- pe #7-1656-2  | ipment on Airsupp  /C system. ical access g air duct -1656-383 ransfer pip   | Suriza  | CHANGEABLE  CHANGEABLE  Frame  Defuel Frame  Remove error crosses to the control of the control  | ir Conditefuel/Detank Press  TERCHANGEA  PLACEABLE  irframe  Defuel Remove Remove Remove Remove   | r Condition fuel/Defuel nk Pressuri erchangeable LACEABLE rframe Defuel R. Remove el Remove co Remove fu Remove fu  | Conditioner a coldinary and conditioner a coldinary and co | H. A/C sysectrical a coling air e #7-1656-el transfeel transfe  | C system cal acce; air duc; 1656-383 ansfer pansfer e.   | stem. access duct s -383 er pipe  | erator supply cem. cess uct s significant series                                  | tem.   | enera nt irsup acces duct -383 fer pi  | Gene ment Airs  syste al accair do 556-38 asfer asfer               | C syscal a air 1656-ansfe   
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| MEN X MINUTE EST. ACTU  and sections111 7-1656-282  | nand section 56-111   | REMOV  s panel L & section.#7- pe #7-1656-2 pow #7-1656-   | /C system. ical access g air duct -1656-383 ransfer pip  | Suriza  | CHANGEABLE  CHANGEABLE  Frame  Defuel Frame  Remove error crosses frame  Remove frame  Remove frame  Remove frame  Remove frame  | ir Conditefuel/Detank Press  TERCHANGEA  PLACEABLE  Irframe  Defuel Remove Remove Remove Remove Remove  | r Condition fuel/Defuel nk Pressuri erchangeable LACEABLE  rframe  Defuel R. Remove el Remove ti Remove fu Remove fu Remove fu  | Conditioner a coldinary and conditioner a coldinary and co | H. A/C sysectrical a oling air e #7-1656-el transfeel transfeel transfe   | C system cal acce air ducies 1656-383 ansfer parts ansfer mansfer mans | stem. access duct s -383 er pipe er elbe  | erator supply cem. cess uct s 83 pipe elbo  | tem. ccess luct :  | enera nt irsup acces duct  | Gene ment Airs  syst al act air do 556-38 asfer asfer asfer         | C syscal a air 1656-ansfeansfe  
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                           | nd :  | vcT   | rion<br>ttion                   | s star    |            | H         | ANE  | DLD | NG   | 3 E | 195   | UEP  | ME  | A   | иел |     | : BM |     |    |     |   |   |  | nest inlet   | of pacting are   | the         | k t       | ,  |
| MEN X MINUTE  EST. ACTU  and sections.  -111  7-1656-282  sure s witch 6-1/3  | nand section 56-111   | s panel L & section.#7- pe #7-1656-2 pow #7-1656- pump diff. sing pipe #7  | /C system. ical access g air duct -1656-383 ransfer pip ransfer "Y' piping to  | BLE R.H. e election fuel fuel fuel fuel mection fuel fuel fuel fuel fuel fuel fuel fuel | CHANGEABLE  CHANGEABLE  Frame  Defuel Frame  Remove created the Remove of Remove frame  Remove frame  Disconne  Disconne   | ir Conditefuel/Detank Press EERCHANGEA PLACEABLE  irframe  Defuel Remove Remove Remove Remove Remove Remove Remove Remove Discon  | r Condition fuel/Defuel nk Pressuri erchangeable LACEABLE  rframe  Defuel R. Remove el Remove ti Remove fu Remove fu Remove fu Remove fu Disconnec  | Conditioner a color of the colo | H. A/C sysectrical a oling air e #7-1656-el transfeel transfeting pipint pressure   | C system cal acce air duc. 1656-383 ansfer pansfer piping to ssure ser   | stem. access duct s = 383 er pipe er er pipe er my n ng to me                   | erator supply cem. cess uct s s pipe elbo ny to p                                 | tem. ccess duct s supply representations   | enera nt irsup acces c duct 5-383 fer pi fer my ing to  
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and<br>uipion<br>A/C<br>ric<br>ric<br>rg<br>7-1<br>tran<br>tran<br>tran<br>tran<br>tran<br>tran<br>tran<br>tran  | x x x x x x x x x x x x x x x x x x x | x  i. A  ctrl lir  fring pr  ssu   | er Equation Equation American Equation  | H. ectionist per triples   | a.Hlectooliectict                        | R.H. elective:                            | .HHelectives   | H. ecole el el ti   
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  | A/riiio                                 | A/ring7-trtr               | A/ri  | /icg                                      | C ca a 16 an an pi               | l (ome<br>sal ai<br>ai<br>ai<br>ai<br>ai<br>ai<br>ai<br>ai<br>ai<br>su<br>su<br>su   | Signal Si | Geenen Ai  | entir ir i  | teccdu 38            | em.   | i. sst   | s s pe  | p se e pu                                | pai<br>#' #<br>pil                       | neti<br>7=<br>#7<br>pe                         | on 169     | L & 1<br>.#7-<br>56-2<br>656-1<br>ection                            | R h<br>225<br>275<br>265<br>on<br>pre                | hand<br>56-1<br>5 "7-   | ad :  | sectll  | ork:                            | star
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  | systeal accair de 656-38 asfer asfer iping sure sensite1.           | C syscal architecture of the control | AA/C:<br>rrical<br>ransarrans<br>rrans<br>rrans<br>rrans<br>66-16   | x A/   | .H. H. Hectinget pressure-   | R.H. electinect press 7-1                                      | ABLE  TO E CO  TO FUE  | ABLE  E  E  E  C  C  C  C  C  C  C  C  C  C  | R.H ele fue fue fue fue fue fue fue fue fue fu                     | R.H. clectocolic ress  | Equation Equ | x x x x x x x x x x x x x x x x x x x  | x Actriling pr   
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  | p see                                    | pai<br>#' #<br>pilimping .pe             | #77pe  | on 169     | L & 1<br>.#7-<br>56-2<br>656-1<br>ection<br>ff. ]<br>e #7-          | R h. 2255<br>275 265<br>on pre<br>-167-1             | hand<br>56-1<br>"7-<br>essu<br>656-                             | nd :-1111<br>-16<br>-12<br>6-1                | uct<br>sect<br>1<br>656-<br>e s w<br>43<br>167,     | orks                            | star      | nd         |           |      |     |      |     |       |      | ME  | A   | иел |     | : BM |     |    |     |   |   | The second secon | nseliniet Prima Prima Richard  | of pacting are   | the Tion od | k t       | ,( |
| MEN X MINUTE  EST. ACTU  and sections. 111  7-1656-282  sure s witch 6-143 56-167, 7-1656-137, 7-1656-  | nand section 56-111   | s panel L & section.#7- pe #7-1656-2 pow #7-1656-1 pipe secti pump diff. sing pipe #7 pipes Nos.   | /C system. ical access g air duct 1656-383 ransfer pir ransfer "Y" piping to essure sensing 5-161. pressure re                     | BLE R.H. e electer fuel fuel fuel fuel fuel fuel fuel fuel                              | CHANGEABLE  CHANGEABLE  Frame  Defuel Frame  Remove transport frame  Remove frame  Disconner  Disconner  Disconner  Remove p  155 and  Remove d  | ir Conditefuel/Detank Press EERCHANGEA PLACEABLE  irframe  Defuel Remove   | r Condition fuel/Defuel nk Pressuri erchangeable LACEABLE  rframe  Defuel R. Remove el Remove fu Remove fu Remove fu Disconnec Disconnec Remove pr 155 and 7 Remove di  | conditioner a color of the colo | H. A/C sysectrical a coling air e #7-1656-el transfe el transfe ting pipin t pressure sen=1656-161.                         | C system cal acce air duc. 1656-383 ansfer pansing to ssure sere e sensing -161.   | stem. access duct s = 383 er pipe er "y" ng to p e sensi                        | erator supply  em. cess uct s s pipe elbo ny to p sensin                          | tem. ccess duct s supply representation tem. ccess duct s sensi  | enera nt irsup acces c duct 6-383 fer el fer "Y ing to re ser  
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  | s s pe boom p p p si  | p p see                                  | pan<br>#' #<br>pin<br>pin<br>pe          | me ti  | on los     | L & 1<br>.#7-<br>56-2<br>656-<br>ection<br>ection<br>ff. ]<br>e #7- | R h<br>225<br>275<br>265<br>on<br>pre<br>-16<br>7-1  | hand<br>56-1<br>5<br>"7-<br>=================================== | 7-16<br>ure<br>6-1                            | sect<br>1<br>556-<br>e s w<br>43<br>167,            | orks                            | star      | nd         | -37       | 79   | 7-  | -16  | 65  |       |      | мен | A   | иел |     | E BM |     |    |     |   |   | The second secon | nseliniet Prima Prima Richard  | of of percent of the  | the Tion od | k t       | ,( | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| MEN X MINUTE  EST. ACTU  and sections. 111  7-1656-282 sure s witch 6-143 56-167, 7-1656-137, 7-1656-  M.D.R. 16-20 hdraw pump from mounting        | nand section 17-1656-28 essure swit 156-143 656-167, 7  | REMOV  s panel L & section.#7-  pe #7-1656-2  pow #7-1656-1  pipe secti pump diff. sing pipe #7 pipes Nos. egulator - r  bolts, and e regulator      | /C system. ical access g air duct -1656-383 ransfer pip ransfer "Y" piping to essure sens re sensing 5-161. bressure re attachment | R.H. e election fuel fuel fuel fuel fuel fuel fuel fuel                                 | CHANGEABLE  CHANGEABLE  Frame  Defuel Frame  Defuel Frame  Remove created frame  Defuel Frame  Remove frame  Remove frame  Disconne  Disconne  Remove p  155 and  Remove d  Remo | ir Conditefuel/Detank Press ERCHANGEA PLACEABLE  irframe  Defuel Remove Remove Remove Remove Remove Remove Liscon Remove Remove Liscon Remove Liscon Remove Remove Liscon Remove Remove Liscon Remove | r Condition fuel/Defuel nk Pressuri erchangeable LACEABLE  rframe  Defuel R. Remove el Remove ti Remove fu Remove fu Remove fu Disconnec Remove pr 155 and 7 Remove di Remove di Remove di Remove 2 bracket. Disassembi | Conditioner a colling resourizati to the colling resourizati to the colling remove cooling remove fuel to remove pressures and 7-1656 remove 2 rear racket.  | H. A/C sysectrical a coling air e #7-1656-el transfe el transfe et ing pipin t pressure sen-1656-161. ff. pressurear attack | C system cal acce air duc. 1656-383 ansfer paransfer pripring to ssure series e sensing 161. ressure restrachment el pressu  | stem. access duct s = 383 er pipe er "y" ng to p e sensi nsing p ure reg chment | erator supply  em. cess uct s so pipe elbo ny to p sensining p e reg ment l ssure | tem. ccess duct s supply relations to p sensi ing p e reg ment ssure   | vstem. accest compared to the service of the servic | systeal accasing defining sure seems; left.                         | C syscal a cal a c | A/C:<br>rrical<br>rans<br>rans<br>rans<br>rans<br>rans<br>rans<br>rans<br>rans  | x A/ctring H7-1 tre tre 656-                       | .H. H. Helectrice #70 izel to the testing extra to the following rearrant of the following rearr | R.H. electinect press 7-1 diff 2 resemble                      | ABLE  Te ele  Te fue   | ABLE E R. We el R. We fure fure fure fure fure fure fure fur   | R.H ele coo tie fue fue fue fue fue ct. emble                      | R.H  clection  ctime  ress  ress  ble  ble   | Equation of the state of the st | Equation of the second of the  | x Actriling pr L t L t L t L t L t L t L t L t L t L   | A/A/T-triing tring fur fur             | A/riing 77-ittrattrage properties | /C ice g a contrarrarrarrarrarrarrarrarrarrarrarrarrar   | od pmon call ansans ansans e se se the set | d G spme A A A A A A A A A A A A A A A A A A A   | /C sicalization of the control of th | A/C  | x A/etri- ing pre- sur 656            | x Equation of the second of th | Equation of the state of the st | H. ective election to personal de la   | 2.H clectores 7-1 iff re cole            | R.H. le coo. ie ct: ct: res. 7-1 iff      | .H. lectoole uell uell uell iff  | H. ecole eller eller estate  | ctiff in pss16 f. ea   | r Equat  | ctiling properties of the search of the sear | I. t.   | H. Eza H. eccolinger election to the second election elec | H. col el el el tint per le este el | I. Clif  | or Ectil#      | ct li #                       | ct li #  | r Equation of the second of th | tri from the tri f | AArrin 177 t t t t t t green fi | AA/A/A/7-itrrttrrtrrtrr                | d/ing  | A/riiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiii | A/ring 7-tr tr grear 6 pr  | AA/A/A/A/A/A/A/A/A/A/A/A/A/A/A/A/A/A/A          | /(icom                                    | C ca a 16 an an an pi ss e at    | l (come a laid of a laid o | sy al sins fins fins fins fins fins fins fins  | General Syling S | entir ir i  | teccdu38             | em. cessuct 33 pii tc en ng                           | i. sst ipliby ons  | s s pe boom print | p se e e e e e e e e e e e e e e e e e e | pai<br>#' #<br>poil<br>poi<br>pool<br>re | ine<br>f7-<br>#7<br>pe<br>p<br>pes<br>atc      | or s,      | L &   | R h. 225<br>275<br>265<br>on pre-16<br>7-1<br>ef. wi | 55 "7-essu (556-) 1656  | nd : -111 -16 -12 -12 -12 -12 -12 -12 -12 -12 | oct<br>sect<br>1<br>556-<br>esw<br>43<br>167,<br>R. | rion tion -282 vite 7- 16- pump | star      | nd         | -37       | 79   | 7-  | -16  | 65  |       |      | мв  | A   | иел |     | . M  |     |    |     |   |   |  | nest in the second seco | of pact ary rame arics   | THON DD     | on on     |    |
| MEN X MINUTE  EST. ACTU  and sections111  7-1656-282 sure s witch 6-143 56-167, 7-1656-137, 7-1656-  M.D.F. 16-20 hdraw pump from mounting  m pump. | nand section 56-111  "7-1656-28 essure swith 556-143 essore 167, 7  M.D.R. 16 thdraw pum om pump. | s panel L & section.#7- pe #7-1656-2 pow #7-1656- pippe secti pump diff. sing pipe #7 pipes Nos. egulator - r bolts, and re regulator mnector. Remov | /C system. ical access g air duct -1656-383 ransfer pip ransfer "Y" piping to essure sens re sensing 5-161. bressure re attachment | R.H. e election fuel fuel fuel fuel fuel fuel fuel fuel                                 | CHANGEABLE  CHANGEABLE  Frame  Defuel Frame  Defuel Frame  Remove created frame  Defuel Frame  Remove frame  Remove frame  Disconne  Disconne  Remove p  155 and  Remove d  Remo | ir Conditefuel/Detank Press ERCHANGEA PLACEABLE  irframe  Defuel Remove Remove Remove Remove Remove Remove Liscon Remove Remove Liscon Remove Liscon Remove Remove Liscon Remove Remove Liscon Remove | r Condition fuel/Defuel nk Pressuri erchangeable LACEABLE  rframe  Defuel R. Remove el Remove ti Remove fu Remove fu Remove fu Disconnec Remove pr 155 and 7 Remove di Remove di Remove di Remove 2 bracket. Disassembi | conditioner a colliner and pressurizati conditioner and pressurizati conditioner and colliner | H. A/C sysectrical a coling air e #7-1656-el transfe el transfe et ing pipin t pressure sen-1656-161. ff. pressurear attack | C system cal acce air duc. 1656-383 ansfer paransfer pripring to ssure series e sensing 161. ressure restrachment el pressu  | stem. access duct s = 383 er pipe er "y" ng to p e sensi nsing p ure reg chment | erator supply  em. cess uct s so pipe elbo ny to p sensining p e reg ment l ssure | tem. ccess duct s supply relations to p sensi ing p e reg ment ssure   | vstem. accest compared to the service of the servic | systeal accasing defining sure seems; left.                         | C syscal a cal a c | A/C:<br>rrical<br>rans<br>rans<br>rans<br>rans<br>rans<br>rans<br>rans<br>rans  | x A/ctring H7-1 tre tre 656-                       | .H. H. Helectrice #70 izel to the testing extra to the following rearrant of the following rearr | R.H. electinect press 7-1 diff 2 resemble                      | ABLE  Te ele  Te fue   | ABLE E R. We el R. We fure fure fure fure fure fure fure fur   | R.H ele coo tie fue fue fue fue fue ct. emble                      | R.H  clection  ctime  ress  ress  ble  ble   | Equation of the state of the st | Equation of the second of the  | x Actriling pr L t L t L t L t L t L t L t L t L t L   | A/A/T-triing tring fur fur             | A/riing 77-ittrattragg   properties   proper | /C ice g a contrarrarrarrarrarrarrarrarrarrarrarrarrar   | od pmon call ansans ansans e se se the set | d G spme A A A A A A A A A A A A A A A A A A A   | /C sicalization of the control of th | A/C  | x A/etri- ing pre- sur 656            | x Equation of the second of th | Equation of the state of the st | H. ective election to personal de la   | 2.H clectores 7-1 iff re cole            | R.H. le coo. ie ct: ct: res. 7-1 iff      | .H. lectoole uell uell uell iff  | H. ecole eller eller estate  | ctiff in pss16 f. ea   | r Equat  | ctiling properties of the search of the sear | I. t.   | H. Eza H. eccolinger election to the second election elec | H. col el el el tint per le este el | I. Clif  | or Ectil#      | ct li #                       | ct li #  | r Equation of the second of th | tri from the tri f | AArrin 177 t t t t t t green fi | AA/A/A/7-itrrttrrtrrtrr                | d/ing  | A/riiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiii | A/ring 7-tr tr grear 6 pr  | AA/A/A/A/A/A/A/A/A/A/A/A/A/A/A/A/A/A/A          | /(icom                                    | C ca a 16 an an an pi ss e at    | l (come a laid of a laid o | sy al sins fins fins fins fins fins fins fins  | General System of the control of the | entir ir i  | teccdu38             | em. cessuct 33 pii tc en ng                           | i. sst ipliby ons  | s s pe boom print | p se e e e e e e e e e e e e e e e e e e | pai<br>#' #<br>poil<br>poi<br>pool<br>re | meeti<br>7-<br>#7<br>pe<br>p<br>p<br>es<br>atc | or. R      | L & 1. #7- 56-2 656- ectiff. pe #7- os. ' - re and                  | R h<br>225<br>265<br>on<br>pre-16<br>7-1<br>ef.      | hand<br>56-1<br>5 "7-<br>essu<br>556-<br>1656<br>M. ithd        | -111<br>-16<br>-12<br>6-1<br>.Ddra            | sectl  556-esw 43 67, R. R.  Rump.                  | orks                            | star      | nd<br>66-1 | -37<br>mo | ',   | 7-  | -16  | 65  |       |      |     | 1   | ME! |     |      |     |    |     |   |   |  | Primarina Rect Start Income In the Cor In th | of pectal period of the period | TON SS      | on<br>tri | I  |

January 3/ Sgt Bell C. Beanlan R.F. Reid

K. Knowlton EFF. A/C - 25201 S. Brown (No. 2 Tank) AVRO PART NO. manufacturer's part no. L60-096 MANUFACTURER'S NAME Hydro-Aire Inc. 7-1656-115 AVROCAN SPEC. E461 E.O. NO. REF. DWG8. ENVELOPE SIZE 9.25" x 8.125" x 5.5" WEIGHT 6.75 est -LB. 7-1656-197 &8 S FOR BENCH USE 7-1656-1 LOCATION Duct Bay - bottom wing skin - Sta. 492-497 7-1100-2 sh 13 FUNCTION Used in the fuel transfer line from No. 2 REF. M.D.R. fuselage tank to equalize the system pressure at the inlet of the LH flow proportioning unit. DLING EQUIPMENT RELIABILITY OVERHAUL LIFE 1200 WASTAGE Q.T.R. Hydro Aire - 60-096 MEN X ET EST. K

DATA

RECORD

Engineering Div.

A/C TYPE - Arrow 1

MAINTENANCE

AVRO AIRCRAFT LTD.

DISTRIBUTION: STANDARD +

A. Cornish

ACCESS

7-1656-

unting

1)

INSPECTIO	OPERATION TO BE PERFORMED	MEN X I	MINUTES
PERIOD		EST.	ACTUAL
Primary Airframe	Check pump for security and leakage.	1 x 2	
Electrics	Check security of electrical connector on pump.  Check pump function -E21 refuel and test panel (ensure press-to-test lights are serviceable - select ground test switch to TEST - proper pump function will be indicated by a green light)	1 x 2	
25 Hr.	and the second of the second o		
Airframe	Check pump and associated piping for security, leakage, corrosion and damage.	1 x 2	
Electrics	Check for security of electrical connector.  Carry out function TEST. (See Maintenance Instructions Report 71/MAINT 11/7)	1 x 2 Pending	
For Remova	ectrical equipment access panel - RH section - 44 camlocs Remove and replace	$1 \times 4^{\frac{1}{2}}$ $1 \times 7^{\frac{1}{2}}$	
ISSUE	1 2		1
DATE	January 30/57 20 Nov. 57		
COMPILED	Sgt Bell P.A. Bell Sgt		
CHECKED	C. Beanland J. Brumfit		
APPROVED	R.F. Reid R.F. Reid		

SYSTEM

FUEL

Pump - Fuel Transfer LH

COMPONENT

REF. NO.

116-82 11-E284

HRS.

		LUBRICAT	ION NIL	SOL SEEDS LESS	
APPLICATION	MATERIAL	SPECIFICATION	FREQUENCY	ACCESS	
DETAILS:	T				
		GROUND SUPPORT	EQUIPMENT		
SPECIA	L TOOLS FOR AIRCRAF	T USE	SPECIAL TO	OOLS FOR BENCH USE	
Wig-O-Flex To	ols		NIL		
	2		S THE PARTY OF THE		
GRO	OUND TESTING EQUIPMEN	VT.	GROUND HA	ANDLING EQUIPMENT	
lir Condition	er and Generator	AC			
lefuel∞Defuel ank Pressuri:	Equipment supply		Workstand		
			MOTESCAIN		
INTERCHANGEA	BLE X			MEN	× MINUTES
REPLACEABLE		REMOVAL IN	STRUCTIONS	EST.	
irframe					
1.	Defuel L.H. A/C	system			
2.	Remove electrics	l access panel -	L & R hand section	ons.	
20	Remove cooling a Remove tie #7-16	ir duct section .	- 7-2256-111	0110 8	
5.	Remove fuel tran	sfer pine 7-1656	275		
٥.	Remove fuel tran	sfer elbow 7-1656	265		
7.	Remove fuel tran	sfer WW nine 7-1	1656 202		
	Disconnect pipin Remove 2 rear at				
10.	Disassemble fuel	pressure regulat	or from numb		
			pump <sub>0</sub>		
lectrics 1.	Disconnect elect	rical connector.			
		Total Remove an	d Replace	1 x 6	0
	-	(Time to Defuel n	ot included)		
			-2204)	1 x 2	

MAINTEN
AVRO AIRCRAFT
DETRIBUTION: STANDAR

A. Cornish
S. Brown K. Knot
MANUFACTURER'S PART:

MANUFACTURER'S NAME

AVROCAN SPEC. E383

ENVELOPE SIZE 3.65

LOCATION Duct Bay

To sense from the left han signal is availab

PERIOD

Primary
Airframe
Electrics
25 Hour
Airframe
Electrics

TE Apr. 25/5

P.A. Bell

C. Beanls

CESS	MAINTE		DATA RECORD  Engineering Div.	FUEL		NO. 6-103 E-295
	DETRIBUTION: STAN		A/C TYPE - Arrow 1	COMPONENT		27
	A. Cornish S. Brown K. K		EFF. A/C - 25201	Diff. Pressure Fuel Transfe		- LH
	MANUFACTURER'S PA		k 1370	AVRO PART NO.		
a department of the second	MANUFACTURER'S NA			7-16	56-9	
	AVROCAN SPEC. E3		D. NO.			
USE	envelope size 3.		3.0 <sup>n</sup> weight .63 lb.		54-18 sht 00-3 sht	
	from the left	hand transfer	l a loss of output pressure pump. This warning und test purpose only.	REF. M.D.R.		
ENT				RELIABI	LITY	
				OVERHAUL LIFE 500 WASTAGE Q.T.R. Wyle Labors		HRS. 40032
	INSPECTION	T	OPERATION TO BE PERFORM	ED	MEN X A	MINUTE
MEN X D	PERIOD				EST.	ACTU.
	Primary Airframe Electrics	indication	itch and associated piping s of leakage. curity of electrical connec		1 x 1 1 x 1½	
	25 Hour Airframe	Inspect sw	itch and associated piping and leakage.			
- Comment	Electrics		curity of electrical connec	tor.	1 x ½	
	,	Function T 71/MAINT 1	est. (See Maintenance Instr 1/7)	uctions Report	Pending	
			ACCESSIBILITY			
1 x 60		Through el	ectrics access door - 74 ca	mlocs.		
1 x 2	31	IIII Ough CI			1	
		in ough er	Remove a	nd replace	1 x 7½	
	ESUR	im ough er		nd replace	1 x 7½	
	ESUE DATE AND	1	2	nd replace	1 x 7½	
	DATE Apr.	1 25/57 2	2 20 Nov. 57	nd replace	1 x 7½	
	DATE Apro	1 25/57 2	2	nd replace	1 x 7½	

Airframe 1 Disconnect and blank off 2 fuel pressure sensing lines.  2. Remove 2 mounting bolts.  Remove and replace 1 x 15	A	i <sub>k</sub> ———		_						
APPLICATION MATERIAL SPECIFICATION FREQUENCY ACCESS  DETAILS:  GROUND SUPPORT EQUIPMENT  SPECIAL TOOLS FOR AIRCRAFT USE SPECIAL TOOLS FOR BENCH USE  NIL NIL NIL NIL SPECIAL TOOLS FOR AIRCRAFT USE SPECIAL TOOLS FOR BENCH USE  NIL NIL NIL SPECIAL TOOLS FOR AIRCRAFT USE SPECIAL TOOLS FOR BENCH USE  NIL NIL NIL SPECIAL TOOLS FOR MENCH USE  NIL NIL NIL SPECIAL TOOLS FOR MENCH USE  NIL NIL SPECIAL TOOLS FOR MENCH USE  NIL NIL SPECIAL TOOLS FOR BENCH USE  NIL NIL SPECIAL TOOLS FOR BENCH USE  NIL S	ř.								1	
APPLICATION MATERIAL SPECIFICATION FREQUENCY ACCESS  DETAILS:  GROUND SUPPORT EQUIPMENT  SPECIAL TOOLS FOR AIRCRAFT USE SPECIAL TOOLS FOR BENCH USE  NIL NIL NIL NIL SPECIAL TOOLS FOR AIRCRAFT USE SPECIAL TOOLS FOR BENCH USE  NIL NIL NIL SPECIAL TOOLS FOR AIRCRAFT USE SPECIAL TOOLS FOR BENCH USE  NIL NIL NIL SPECIAL TOOLS FOR MENCH USE  NIL NIL NIL SPECIAL TOOLS FOR MENCH USE  NIL NIL SPECIAL TOOLS FOR MENCH USE  NIL NIL SPECIAL TOOLS FOR BENCH USE  NIL NIL SPECIAL TOOLS FOR BENCH USE  NIL S	٦,								1	TENAN
APPLICATION MATERAL SPECIFICATION PRESCRIPT  DETAILS:  CROUND SUPPORT EQUIPMENT  SPECIAL TOOLS FOR AIRCRAFT USE SPECIAL TOOLS FOR BENCH USE  NIL NIL,  OROUND TESTING EQUIPMENT GROUND HANDLING EQUIPMENT  Air Conditioner and generator AC Workstand  MENT Conditioner and generator AC Workstand  INTERCHANGEABLE X REMOVALINSTRUCTIONS MENT MENUTES  REPLACEABLE REPLACEABLE X REMOVAL INSTRUCTIONS  ELECTRICS 1. Disconnect 1 slectrical connector.  Airframe 1 Disconnect and blank off 2 fuel pressure sensing lines.  2. Remove 2 mounting bolts.  ROMOVE and replace 1 x 15				LUBRICAT	ON NIL					CRAFT LTD.
GROUND SUPPORT EQUIPMENT  SPECIAL TOOLS FOR ANGEAFT USE  NIL  NIL  NIL  NIL  Air Conditioner and generator AC  Morkstand  Men x moutes  Replaceable x Removal instructions  Removal instru	-1	APPLICATION	MATERIAL	SPECIFICATION	FREQUENCY	A	CCESS		UTHRUTION: 8:	TANDARD +
GROUND SUPPORT EQUIPMENT  SPECIAL TOOLS FOR ANCEAFT USE  NIL  NIL  NIL  NIL  NIL  NIL  OROUND TESTNO EQUIPMENT  GROUND TESTNO EQUIPMENT  Air Conditioner and generator AC  Workstand  MEN × MNUTES  REPLACEABLE  Electrics 1. Disconnect 1 electrical connector.  Airframe 1 Disconnect and blank off 2 fuel pressure sensing lines.  2. Remove 2 mounting bolts.  Nemove and replace  1 x 15  NEMOVE and replace  1 x 15  NEMOVE and replace  1 x 15										
GROUND SUPPORT EQUIPMENT  SPECIAL TOOLS FOR ARCRAFT USE  NIL  NIL  NIL  NIL  NIL  GROUND TESTING EQUIPMENT  GROUND HANDLING EQUIPMENT  Air Conditioner and generator AG  Workstand  NEN X MEN X	~		Washing IT a Than		7 (304) (104)					
CROUND SUPPORT EQUIPMENT  SPECIAL TOOLS FOR AIRCRAFT USE  NIL  NIL  NIL  NIL  NIL  Air Conditioner and generator AC  Workstand  REMOVAL INSTRUCTIONS  REPLACEABLE  Electrics 1. Disconnect 1 electrical connector.  Airframe 1 Disconnect and blank off 2 fuel pressure sensing lines.  2. Remove 2 mounting bolts.  Remove and replace  1 x 15	0	DETAILS:							UNITACTURER'S	PART NO.
CROUND SUPPORT EQUIPMENT  SPECIAL TOOLS FOR AIRCRAFT USE  NIL  NIL  NIL  NIL  NIL  Air Conditioner and generator AC  Workstand  REMOVAL INSTRUCTIONS  REPLACEABLE  Electrics 1. Disconnect 1 electrical connector.  Airframe 1 Disconnect and blank off 2 fuel pressure sensing lines.  2. Remove 2 mounting bolts.  Remove and replace  1 x 15									A SPINSTER S	NAME Ger
SPECIAL TOOLS FOR AIRCRAFT USE  SPECIAL TOOLS FOR AIRCRAFT USE  NIL  NIL  NIL  NIL  GROUND TESTING EQUIPMENT  GROUND HANDLING EQUIPMENT  GROUND HANDLING EQUIPMENT  Air Conditioner and generator AC  Workstand  BUTERCHANGEABLE X  REMOVAL INSTRUCTIONS  EST. ACTUAL  Electrics 1. Disconnect 1 electrical connector.  Airframe 1 Disconnect and blank off 2 fuel pressure sensing lines.  2. Remove 2 mounting bolts.  Remove and replace  1 x 15										
SPECIAL TOOLS FOR ARRCRAFT USE  SPECIAL TOOLS FOR BENCH USE  NIL  NIL  NIL  NIL  NIL  RECOMMENT  GROUND TESTING EQUIPMENT  GROUND HANDLING EQUIPMENT  Air Conditioner and generator AC  Workstand  ENTERCHANGEABLE X  REMOVALINSTRUCTIONS  MEN X MINUTES  EST. ACTUAL  Electrics 1. Disconnect 1 electrical connector.  Airframe 1 Disconnect and blank off 2 fuel pressure sensing lines.  2. Remove 2 mounting bolts.  Remove and replace  1 x 15	7								INICAN SPEC.	E233
SPECIAL TOOLS FOR ARRCRAFT USE  SPECIAL TOOLS FOR BENCH USE  NIL  NIL  NIL  NIL  NIL  RECOMMENT  GROUND TESTING EQUIPMENT  GROUND HANDLING EQUIPMENT  Air Conditioner and generator AC  Workstand  ENTERCHANGEABLE X  REMOVALINSTRUCTIONS  MEN X MINUTES  EST. ACTUAL  Electrics 1. Disconnect 1 electrical connector.  Airframe 1 Disconnect and blank off 2 fuel pressure sensing lines.  2. Remove 2 mounting bolts.  Remove and replace  1 x 15		s		CROUND SUPPORT	FOUIPMENT				MELOPE SIZE	7.93" x 7
NIL  ORGUND TESTING EQUIPMENT  GROUND HANDLING EQUIPMENT  Air Conditioner and generator AC  Workstand  MEN X MINUTES  EST. ACTUAL  REPLACEABLE  Electrics 1. Disconnect 1 electrical connector.  Airframe 1 Disconnect and blank off 2 fuel pressure sensing lines.  2. Remove 2 mounting bolts.  Remove and replace  1 x 15	1	SPECIAL 3				OLS FOR BENC	H USE		1	
NIL  GROUND TESTING EQUIPMENT  GROUND HANDLING EQUIPMENT  Air Conditioner and generator AC  Morkstand  MEN X MINUTES  REPLACEABLE  Electrics 1. Disconnect 1 electrical connector.  Airframe 1 Disconnect and blank off 2 fuel pressure sensing lines.  2. Remove 2 mounting bolts.  Remove and replace  1 x 15	}-	į.							wanow in o	anger.
GROUND TESTING EQUIPMENT GROUND HANDLING EQUIPMENT shilling against shilling its section, e.g. RH third.  Air Conditioner and generator AC Morkstand    Disconnect and Electrical connectors		<b>1</b>								
GROUND TESTING EQUIPMENT  Air Conditioner and generator AC  Workstand    Note Change Alle   x   Removal Instructions   Men x minutes   Est.   Actual			NIL			NIL			motion Serv	es as a posinst fl
Air Conditioner and generator AC    Morkstand   Men x minutes   Men x minutes	1	and the same of th							stallation	it serves
Air Conditioner and generator AC  Workstand    INTERCHANGEABLE	Į.	GROUN	D TESTING EQUIPMENT		GROUND HA	NDLING EQUIPM	ENT		irraft fuel	system d
Air Conditioner and generator AC  Workstand    Interchangeable   x     Removal Instructions     Men x   Minutes   Est.   Actual	ľ								plated.	o IIII OIILY
INTERCHANGEABLE X  REMOVAL INSTRUCTIONS  REPLACEABLE  EST. ACTUAL  Electrics 1. Disconnect 1 electrical connector.  Airframe 1 Disconnect and blank off 2 fuel pressure sensing lines.  2. Remove 2 mounting bolts.  Remove and replace  1 x 15	1	Air Conditioner	and generator A	С	Workstand					
INTERCHANGEABLE X  REMOVAL INSTRUCTIONS  REPLACEABLE  EST. ACTUAL  Electrics 1. Disconnect 1 electrical connector.  Airframe 1 Disconnect and blank off 2 fuel pressure sensing lines.  2. Remove 2 mounting bolts.  Remove and replace  1 x 15										
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Electrics 1. Disconnect 1 electrical connector.  Airframe 1 Disconnect and blank off 2 fuel pressure sensing lines.  2. Remove 2 mounting bolts.  Remove and replace 1 x 15	1	INTERCHANGEABLE	X.	REMOVAL INS	TRUCTIONS		MEN × M	INUTES	PERIOD	-
Electrics 1. Disconnect 1 electrical connector.  Airframe 1 Disconnect and blank off 2 fuel pressure sensing lines.  2. Remove 2 mounting bolts.  Remove and replace 1 x 15	1	REPLACEABLE					EST.	ACTUAL		
Airframe 1 Disconnect and blank off 2 fuel pressure sensing lines.  2. Remove 2 mounting bolts.  Remove and replace  1 x 15  Thus Charles Fuel pressure sensing lines.  Remove and replace		Electrics 1.	Disconnect 1 ele	ctrical connecto	r.				risary Ofrana	Visual
Remove and replace    1 x 15   The Charles										Check
Remove and replace 1 x 15  Thee Charles Fu 71		Alrirame 1 1	Disconnect and b Remove 2 mountin	Lank off 2 fuel	pressure sensing	lines.			Dha .	
Remove and replace 1 x 15										Check
	1				Remove and repla	ce	1 x 15		obstan	
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Sept. 28/5/									Sept	28/5/
Ped. Bell	]								(00 D	28/56 ell
G Bearlan	-								C. Bea	nlond
G. Emmer son									G. Emm	erson

SYSTEM DATA MAINTENANCE REF. NO. RECORD 16-70 ACCESS FUEL AVRO AIRCRAFT LTD. Engineering Div. 11-E299 A/C TYPE - Arrow 1 DISTRIBUTION: STANDARD + COMPONENT 11-E300 A. Cornish Valve - 2½ Dia. Motor Operated EFP. A/C -S. Brown K. Knowlton 25201 Fuel Shut-Off (Isolation Valve) AVRO PART NO. MANUFACTURER'S PART NO. AV16B-1337B MANUFACTURER'S NAME General Controls Co. 7-1600-61 AVROCAN SPEC. E233 E.O. NO. REF. DWGS. ENVELOPE SIZE 7.93" x 7.68" x 4.79" WEIGHT 4.90 7-1656-203 7-1656-205 OR BENCH USE 7-1100-2 sh 24 LOCATION In duct bay - Sta. 546-52 - at inlet of Fuel/ oil heat exchanger. FUNCTION Serves as a positive remote method of closing L REF. M.D.R. a fuel line against flow in either direction. In this installation it serves to isolate one half of the aircraft fuel system during operation on a crossfeed IG EQUIPMENT RELIABILITY selection.e.g. RH only selection - LH system is OVERHAUL LIFE 500 isolated. WASTAGE O.T.R. United Elelectro Dynamics 425-M.T. 437-M. T. 404-M.T. INSPECTION MEN X MINUTES OPERATION TO BE PERFORMED PERIOD MENTE ACTUAL EST. Primary Airframe 1 x 1 Visual - Check for leakage. Electrics Check electrical connector for security. 1 x 1 es. 25 Hrs. 1 x 2 Airframe Check for security, damage, corrosion and leakage. 11 Electrics Function Test (See Maintenance Instructions Report Pending 71/MAINT 11/7) ACCESSIBILITY Through hydraulics access door - 52 camlocs.  $1 \times 5\frac{1}{2}$ Remove and replace BSUE 4 DATE Sept. 28/56 20 Nov. 57 Feb. 11/57 2 May 57 COMPILED P.A. Bell P.A. Bell P.A. Bell Sgt P.A. Bell Sgt CHECKED C. Beanland J. Brumfit C. Beanland C. Beanland APPROVED Emmer son R.F. Reid R.F. Reid R.F. Reid

			LUBRICA	TION NIL			
APPLICATION	ON	MATERIAL	SPECIFICATION	FREQUENCY	A	CCESS	A
DETAILS:		AND SHAPE OF			N OTHER	ee e uuuno:	
			GROUND SUPPOR	T EQUIPMENT	Harry Williams		1
SP	ECIAL 1	TOOLS FOR AIRCRAFT	r use	SPECIAL TO	OLS FOR BENC	H USE	
<b>Wig≪</b> 0-Flex	Tool	5			NIL		
	GROUNI	D TESTING EQUIPMEN	T	GROUND HA	NDLING EQUIP	MENT	
Air Condit Refueler	ioner	and Generator .	AC	Cockpit acc Workstand	ess stand		
INTERCHAN	GEABLE	x	REMOVAL	NSTRUCTIONS		MEN X N	INUTES
REPLACEAR	ILE		KEMOTAL			EST.	ACTUAL
Airframe	2. I	couplings and re	nding jumpers,	ion "7-1656-217			
	20 1				00	1 x 54	
				Remove and repla	.ce	1 1 14	
Electrics		isconnect l el	ectrical connec	The second second	.ce	1 1 74	
Electrics		disconnect l ele	ectrical connec	The second second		1 x 2	
Electrics		Disconnect l el	Total	tor.  Remove and repla  Remove and repla	ce		
Electrics		disconnect l el	Total	tor. Remove and repla	ce	1 x 2	

MAINT

AVRO AIRC

A. Cornish S. Brown

MANUFACTURER'S F

WANUFACTURER'S N

AVROCAN SPEC. E

ENVELOPE SIZE 3.

LOCATION In No mount

tank and initi
to shut-off No
When used in t
it has the add
Low\* condition
signal to the s
provide fuel ta

movide idei	01
INSPECTION PERIOD	I
Primary Periodic 25 Hour Airframe & Electrics	

26 Apr. 57
P.A.Bell Co. Beanlar
R.F. Reid

	_							
	7	MAINTEN	ANCE D	ATA REC	ORD	YSTEM FUEL	REF. 1	No. 0-97
ACCES	SS	AVRO AIRCRAFT		Engineer			11-E	
		DISTRIBUTION: STANDAR	D +	A/C TYPE - AT	row l	COMPONENT		
		A. Cornish K. S. Brown	Knowlton	EFF. A/C -	25201	Sensor - Liquid L No.		ink
		MANUFACTURER'S PART	NO. FG-56-G-	-Iss "K"	1	VRO PART NO.		
		MANUFACTURER'S NAME				7-1662-9	81	
		AVROCAN SPEC. E362	& E503 E.O.	NO.				
		ENVELOPE SIZE 3.16			.25 LB.	7-1100-1 7-1100-2		3
BENCH 1	USE	LOCATION In No.	2 tank - on a	aft fuel/no ai	c valve	7-1654-1 7-1100-3		
		PUNCTION It sens	es a "Fuel L	ow" condition	in No. 2	REF. M.D.R.		
		tank and initia	tes a signal	to the low le	ver switch	16-11	.9	
	OUPMENT )	I wan wood in th	e C. G. contr	of iner mansi	er system	RELIABILI	TY	
EQUIPME		it has the addi Low" condition, signal to the s		of initiat	THE A	OVERHAUL LIFE 1500		HRS.
and		signal to the s	equence contrarsfer from	the tank next	in sequence.	Q.T.R. Minn. H'Well	-AEX 25	5154
							MEN X	MINUTES
		INSPECTION PERIOD		OPERATION	TO BE PERFORMED		EST.	ACTUAL
	MEN X 107	PERIOD						
	1 x 5 1 1 x 2 1 x 2 1 x 5	Primary Periodic 25 Hour Airframe & Electrics	Instructi	check in accor ions Report 71/ AINT 12/3	dance with Mai	ntenance /MAINT 16,'4	Pendi	ng
1 x 2	1 7 1/4							
	1 1 1							
	1 1 1			ACCESSIBILIT			1 x	2
	1 7 %		Remove d	amonl fairing	- 6 latches		1 x 1 x	2
	Tyv		Remove d Remove t	orsal fairing	- 6 latches	ts. 7 support clips	1 x	12
	1 1 1		Remove t	orsal fairing ank access pan	- 6 latches	ts, 7 support clips	1 x	12
			Remove t	orsal fairing ank access pan	- 6 latches el - 36 bolts e bars - 6 bol 2 saddle clamp	ts, 7 support clips	1 x	12
	1 1 1	Mayo	Remove t Remove 3 2 bondin	orsal fairing ank access pan structural ti g jumpers and	- 6 latches el - 36 bolts e bars - 6 bol 2 saddle clamp		1 x 3	12
	1 1 1	ISSUE	Remove t Remove 3 2 bondin	orsal fairing ank access pan structural ting jumpers and	- 6 latches el - 36 bolts e bars - 6 bol 2 saddle clamps Remove	and replace	1 x 3	12
	1 1 1	DATE 26 A	Remove t Remove 3 2 bondin	orsal fairing ank access pan structural ting jumpers and	- 6 latches el - 36 bolts e bars - 6 bol 2 saddle clamps Remove	and replace  4  13 Dec. 57  P.A. Bell Sgt	1 x 3	12
	1	DATE 26 A COMPILED P.A.	Remove t Remove 3 2 bondin	orsal fairing ank access pan structural ting jumpers and	- 6 latches el - 36 bolts e bars - 6 bol 2 saddle clamps Remove	and replace  4  13 Dec. 57	1 x 3	12

		LUBRICA	TION NIL		44
APPLICATION	MATERIAL	SPECIFICATION	FREQUENCY	ACCESS	
DETAILS:					
		GROUND SUPPOR	T EQUIPMENT		
SPECIAL	TOOLS FOR AIRCRAFT	USE	SPECIAL TOOLS	FOR BENCH USE	
	NIL		N	IIL	
GROUI	ND TESTING EQUIPMEN	т	GROUND HANDI	ING EQUIPMENT	
Refueler Pressurized Ai	er and generator or Supply - 85 particular indicating test	si Max.	Cockpit access sta MATS - Wing Maintenance Platfo Tank protective ma	rm 4G/1596	
INTERCHANGEABLI	x x	REMOVALI	NSTRUCTIONS	MEN X	MINUTES
REPLACEABLE				EST.	ACTUAL
3. 4. 5.	Defuel applicable Remove structural hangar ass'y #7-Install tank programmer tank programmer and a mounting temove 3 mounting Disconnect 1 elections.	al tie bars No. 1654-103 tective mat. unit #7-1654-1 ag bolts - senso	17, 19 and 20 with 98 r to bracket	1 x 2	
			Remove and replace	1 x 45	
	(	Time to defuel	not included)		
	1				
	,				

NAINTENANCE

JEO ARCRAFT LTD.

MINON STANDARD +

GOTHER'S PART NO. FG.

GONTURER'S NAME Minne

MEM SPEC. E362 & E503

unow In No. Tank

MIGPE SIZE 3.1611 x 1.

min It senses a "Fr minitiates a signa int off No. 1 tank t hm used in the C.G. it has the additional law condition, of in expense control unithal transfer from th

hinary hriodic	Nia
hard odd o	
1012020	
3 Hour	Fur
Erfrane	Ins
& Nectrics	and
. 9	

30 Apr. 57
P.A. Bell
C. Beanlan

Re

CCESS	1		NANCE		ECORD	SYSTEM FUEL	REF 1	. NO. 6-96
	1	AVRO AIRCRA			gineering Div.			-E438
		DISTRIBUTION: STAN	DAKD T	EFF, A/C -	Arrow 1	COMPONENT		
		A. Cornish S. Brown	K. Knowlton		Sensor - Liquid Level Tank No. 1			
		MANUFACTURER'S PA	RT NO. FG-56-0	Iss. WK"		AVRO PART NO.		EM THE
			ME Minneapoli 2 & E503 E.o			7-1662-981		
						Dan Dane		
		ENVELOPE SIZE 3	.16" x 1.16" x	1.22" WEIG	нт .25 ыв.	REF. DWGS. 7-1100		
USE		Tu No	Monle - On of	+ Fuel /No At	n 401		-2 sht 1	3
		LOCATION IN NO.	, tank - Un at	o ruel/NO Al	r ∜alye mount	7-1654 7-1100	-18 -3 sht 6	
					in No. 1 tank	REF, M.D.R.		
		shut off No.	s a signal to l tank transf		16-119			
NT			the C.G. contiditional func		RELIABI	LITY		
		Low* condition	on, of initiaterol unit, which from the tank	ing a signal ch functions	to the to provide	overhaul Life 150 WASTAGE Q.T.R. Minn. H'Well		HRS.
		INSPECTION		OPERATIO	ON TO BE PERFORMED		MEN X	MINUTES
MEN X MINUT	721	PERIOD					EST.	ACTUAL
		Primary Periodic  25 Hour Airframe & Electrics	Function of Instruction and 71/MAI	ntenance /MAINT 16/4	Pending			
x 2 x 45	*							
				ACCESSIBIL	ITY			
			,				1 x 2	
			Remove tar	rsal fairing nk access par	nel - 36 bolts		1 x 12	
			Remove 1 s	structural to	ie-bar - 2 bolts	and 2 support clips	1 x 8	
					Remo	ve and replace	1 x 22	
		ISSUE	1	2	3	4		
			1 r. 57 21	2 June 57	3 16 Sept. 57	13 Dec. 57		
		DATE 30 Ap		June 57	3 16 Sept. 57 P.A. Bell Sgt	P.A. Bell Sgt		
	Act	DATE 30 Ap	Bell Sgt P.A		3 16 Sept. 57 P.A. Bell Sgt J. Brumfit	4 13 Dec. 57 P.A. Bell Sgt K.P. Lowe		

		LUBRIC	BRICATION NIL		
APPLICATION	MATERIAL	SPECIFICATION	FREQUENCY	ACCESS	DISTRIBUTI
					DISTRIBUTI S. BI
				10.00	K. Kr
DETAILS:		<b>N</b>			MANUFACT
					MANUFACT
. 5					AVROCAN S
		GROUND SUPPO	RT EQUIPMENT		ENVELOPE
SPECIAL	TOOLS FOR AIRCRAFT			LS FOR BENCH USE	
					LOCATION
					FUNCTION
	NIL			When ac	
GROUN	D TESTING EQUIPMEN	T	GROUND HAN	DLING EQUIPMENT	to the s
	r and Generator	AC	Cockpit access st	and	
Refueler Pressurized Ai	r Supply - 85 p	si Max.	Mats - Wing Maintenance platf		
Fuel Quantity	indicating test	Set	Tank Protective m		
INTERCHANGEABLE	х	DENGA		MEN × MINUTES	INSPECT
REPLACEABLE		REMOVAL	INSTRUCTIONS	EST. ACTUAL	
2. I 3. : 4. I	Defuel applicable appl	ul tie-bar #9 stective mat. unit #7-1654-	197		25 Hrs.
ELECTRICS 1. I	Disconnect 1 ele	ctrical connec	tor.	1 x 2	
		Remove a	nd replace	1 x 20	
		(Time to de	fuel not included)		
					ISSUE
					DATE
					COMPILED
					ADDD

25 N W02 1 K.P. R.F.

ACCESS	MAINT E	NANCE	DATA RECORD  Engineering Div.	SYSTEM ELECTRICS	REF. NO. 11-E1147/5
	DISTRIBUTION: STAN		A/C TYPE - Arrow 1	COMPONENT	11.E1148/5
eriman a	S. Brown K. Knowlton  EFF. A/C - 25201		Switch - R/F Ada Valve Door Limit	ptor	
	MANUFACTURER'S PA	ART NO.	AVRO PART NO.		
	MANUFACTURER'S NA		7-1162-161		
	AVROCAN SPEC. E				
	ENVELOPE SIZE 2	2" x 1-1/4"	ref. DWGs. 7-1100-3 sht	6	
LS FOR BENCH USE	LOCATION Inside			7-1100-2 sht	
NIL	FUNCTION When actuated	, completes	an electrical circuit by-pass relay and F/P	REF. M.D.R.	
DLING EQUIPMENT	warning light	•	RELIAB	ILITY	
tand form 4G/1596				OVERHAUL LIFE 1 WASTAGE Q.T.R.	500 HRS.
nat.	INSPECTION	1			MEN × MINUTES
MEN X 10.7	PERIOD		OPERATION TO BE PERFO	ORMED	EST. ACTUAL
1 x 2 1 x 20	25 Hrs.	Function 71/MAINT	test. (See Maintenance Ins	structions Report	1 x 2
		Unobstr	ucted		
	ISSUE				
		1 Nov. 57			
	(2)	Nov.57 Wentworth			
	CHECKED K.P	. Lowe			
		. Reid			

AVRO AIR				ATION NIL	LUBRIC		
AVRO AIR		ACCESS			SPECIFICATION	MATERIAL	APPLICATION
4. Corni							
s. Brown							
MUTACTURER*		I Law The Law					DETAILS:
UNUFACTURER*							
COAST WROCAN SPEC.							
INELOPE SIZE	and a	<u>(                                    </u>		RT EQUIPMENT	GROUND SUPPO		
location Ins		NCH USE	rools for BE	SPECIAL TO	USE	OLS FOR AIRCRAFT	SPECIAL TO
MINICTION			NIL			NIL	
valve by condition	. 4						
Condition		IPMENT	HANDLING EQU	GROUND H		TESTING EQUIPMEN	GROUND
						- (02	a.comb
		96	form 4G/15	Maintenance platf	Generator	onditioner and	Air (
INSPECTION		7					or me
PERIOD		MEN × M		INSTRUCTIONS	REMOVAL	x	INTERCHANGEABLE
On Refue	ACTUAL	EST.					REPLACEABLE
Wirframe &					unting bolts.	Remove 3 mo	1.
Mectrics				nnections	electrical co	Unsolder 2	2
				0 0 1 0 1 1 0	,100011001 00	OHDOLGGI &	~ 0
25 Hr.							
Airframe							
and Electri		1 x 20	ice	Remove and replac			
						1	
						į	
						i	
M/E							
MIR  MIR  MIR  MOPULED G.  ORCKED							

Emmers

0000		ATA RECORD	SYSTEM	REF. NO.
	RCRAFT LTD.	Engineering Div.	FUEL	16-9 11-E210
DISTRIBUTION: S	TANDARD +	A/C TYPE - Arrow 1	COMPONENT	TT DETO
A. Corn S. Brown	ish v vnoulton	eff. A/C - 25201	No. 1 Tank Level	l Sensing Valve 2)
MANUFACTURER	's PART NO. 2-355-61	Tiday (Company)	AVRO PART NO.	
200.00	'S NAME Schulz Tool	L & Mfg. Co. (c/o East	7-1654	4-361
ENVELOPE SIZE	ENVELOPE SIZE 5.5" X 4.10" X 4.05" WEIGHT 1.75 LB.			4-18
LOCATION In	side No. 1 Fuel Ta	nnk		0-2 sh 13 0-3 shts 6
PUNCTION valve b	y sensing a real o	ank refueling shut-off or simulated "Tank Full"	REF. M.D.R.	
			RELIA	BILITY
			OVERHAUL LIFE WASTAGE O.T.R. Pe	500 HRS.
	RATE OF LIAM IN	and the second	V.1.16.	
INSPECTION	4	OPERATION TO BE PERFOR	MED	MEN × MINUT
PERIOD				EST. ACT
On Refu	operation o	of this unit and its assoc	ciated tank shut-of	îf

INSPECTION OPERATION TO BE PERFORMED		BE PERFORMED	MEN X M	MINUTES		
PERIOD				EST.	ACTUA	
On Refu Airframe & Electrics	1 x ½					
25 Hr. Airframe and Electr	damage	90	connector for security and	1 x 2		
	sub-sy Report Functi	Carry out a functional check of the refueling/defueling sub-system in accordance with Maintenance Instructions Report 71/MAINT 16/3 Function check fuel system electrics - See Maintenance Instructions Report 71/MAINT 11/7				
		10010115 110701 0 , 1, 1				
		ACCESSIBILITY e dorsal fairing over	tank - 6 latches.	1 x 2		
	Remove	ACCESSIBILITY	tank - 6 latches. Remove and replace	1 x 2		
	Remove	ACCESSIBILITY e dorsal fairing over	tank - 6 latches. Remove and replace  36 bolts.  Remove and replace  9 - 2 bolts	1 x 12		
	Remove	ACCESSIBILITY e dorsal fairing over e tank access panel = e structural tie bar #	tank - 6 latches. Remove and replace  36 bolts.  Remove and replace			
ISSUE	Remove Remove	ACCESSIBILITY e dorsal fairing over e tank access panel = e structural tie bar #	tank - 6 latches. Remove and replace  36 bolts.  Remove and replace  9 - 2 bolts	1 x 12		
DATE M	Remove Remove Remove	ACCESSIBILITY e dorsal fairing over e tank access panel = e structural tie bar #	tank - 6 latches. Remove and replace  36 bolts.  Remove and replace  9 - 2 bolts	1 x 12		
DATE Ma	Remove Remove	ACCESSIBILITY e dorsal fairing over e tank access panel = e structural tie bar #	tank - 6 latches. Remove and replace  36 bolts.  Remove and replace  9 - 2 bolts	1 x 12		
DATE MA	Remove Remove Remove	ACCESSIBILITY e dorsal fairing over e tank access panel = e structural tie bar #	tank - 6 latches. Remove and replace  36 bolts.  Remove and replace  9 - 2 bolts	1 x 12		

1 x 20

- Carl		LUBRICA				
APPLICATION	MATERIAL	SPECIFICATION	FREQUENCY	ACCESS		DISTR
or Lat' quebers and				atung a gran		A. I
DETAILS:						MANUE
DETRIES:						MANUE
			de la constantina de			
Y 11		GROUND SUPPOR			Ricard	ENVEL
SPECIAL TO	OOLS FOR AURCRAFT	USE	SPECIAL TO	OOLS FOR BENCH USE		LOCATI
	NIL			NIL		FUNCTI While valve
GROUND	TESTING EQUIPMEN	Т	GROUND HA	ANDLING EQUIPMENT		pump of faulty
Refueler Air Condition	n er 🎉 Generato	or A=C	Cockpit acces Maintenance F Mats - Wing Fuel Tank Pro	latform 4G/1596		2, Per by-pas malfur
INTERCHANGEABLE	х	BENDYAL II	INSTRUCTIONS		MEN × MINUTES	
REPLACEABLE		REMOVAL	NSTRUCTIONS	EST.	ACTUAL	On Re
(Airframe) (Electrics)	2. Remove d structur 3. Install 4. Disconne 5. Remove 4	.H. a/c system. orsal fairing, al tie bar #9. tank protective ct 2 x 1/4 serv attachment bol	mat. o limes. ts.	amd		Airfr Elect 25 hr Airfr Elect
			Remove and repla	ce 1 x 4	0	Airfra
	(T	ime to defuel m				Electr
						asue Mrz.
						COMPILED

ACCEN	MAINTE AVRO AIRCRAF			ORD	FUEL SYSTEM	REF. NO. 16-31 11-E211	
	DISTRIBUTION: STANDA		A/C TYPE - A	rrow 1 c	OMPONENT		
	l a 3 ah	Knowlton	EFF. A/C - 2	25201	Valve By-Pass and Shut-Off R.H. (No.	Refueling	
	MANUFACTURER'S PAR	T NO. 3-45	6-51-Iss "E"	A	VRO PART NO.		
	MANUFACTURER'S NAM	7-1656-121					
RUE	AVROCALI SI	400	. NO.				
	ENVELOPE SIZE 10.0	7-1656-17	7 & 8				
ENCH US	LOCATION Duct Ba	y - mounted o	on Tank Bulkhea	d - Sta. 478,0	7-1654-18 7-1100-2	SH 28	
	PUNCTION (a) Adm while acting un valve, (b) Perm	REF. M.D.R.					
	numn discharge	RELIABIL	TY				
OUPWENT	faulty fuel pre	pump discharge pressure becomes excessive due to a faulty fuel pressure regulator.  2. Permits flow in the reverse direction to allow fuel by-pass the transfer pump in the event of a pump malfunction.				HRS.	
4G/1596		T	•				
Val	INSPECTION		OPERATION	TO BE PERFORMED		MEN X MINUTES	
Mat	PERIOD	124 - 144 1				EST. ACTUAL	
	Airframe Electrics  valve is checked on each refueling operation by carrying out the pre-refueling check as required and observing No.1 tank indicator light on E-24 panel in the stb'd wheel well. (See Maintenance Instructions Report 71/Maint 16/3)					2 x 1/2	
	25 hr. Airframe Electrics	dirframe Check electrical connector for security.					
1 x 40	Airframe & Electrics	int Pending					
		Function Check Fuel System Electrics - See Maintenance Instructions Report 71/MAINT 11/7					
			ACCESSIBILI	7 7			
		Through ele		panel - 74 caml			
		.,		Remove	and Replace	1 x 7 ½	
	ISSUE	-	2	2	4	5	
		72 /2/	2	37		16 Sept 57	
	101 12	27/56	August 17/56	November 1/5	Sgt. Bell	P.A. Bell S	
	COMPILED Sgt.	Dell	Sgt. Bell	Sgt. Bell		J. Brumfit	
	CHRCVPD O D	7 1	7 7 9 4			PI DITHULLE	
			G. Beanland G. Emmerson	G. Emmerson	C. Beanland R.F. Reid	R.F. Reid	

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			LUBRICAT	ION NIL			
AP	PLICATION	MATERIAL	SPECIFICATION	FREQUENCY	ACCESS		
DE	TAILS:	,					
			GROUND SUPPORT				
	SPECIAL	TOOLS FOR AIRCRAF	T USE	SPECIAL TOOLS	FOR BENCH USE		
:	Wig-O-Fle	x Tools		NIL			
	GROUN	D TESTING EQUIPME	NT	GROUND HANDLE	NG EQUIPMENT		
in	Refueler Pressuriz	ed Air Supply		Workstand	MEN X B	MINUTES	
	PLACEABLE	-   1	REMOVALIN	STRUCTIONS	EST.	ACTUA	
1	Defuel a/Disconnections #7=Disconnections #7=Dis	c1656-167 and 7 at 3 bonding justion pipe assoling air duct and remove pet 2 bonding justions.	#-1656-143; disc -1656-161. mpers 3 Wig-O-Fle y #7-1656-137. section #7-2256- ump inlet pressur mpers, 2 Wig-O-Fl	e sensing line.	ve		
6	Disconnect 2 bonding jumpers, 2 Wig-O-Flex couplings and remove fuel transfer elbow #7-1656-265.  Disconnect and remove pump discharge pressure sensing line.  Disconnect l bonding jumper, 2 Wig-O-Flex couplings, and remove fuel transfer pipe #7-1656-275.  Disconnect primary and secondary servo bleed lines from valve.  Remove 4 mounting bolts, and withdraw valve to rear.  Remove and Replace  (Time to de-fuel not included)						

