

ISN - 13992

| MAINTENANCE DATA RECORD | | SYSTEM | REF. NO. |
|--|---|---|------------------------------|
| AVRO AIRCRAFT LTD. Engineering Div. | | ELECTRICS | 11-E1525 |
| DISTRIBUTION: STANDARD + S. Brown | A/C TYPE - Arrow 1 EFF. A/C - 25201 | COMPONENT Fire Detector Loop Hydraulic Bay | |
| MANUFACTURER'S PART NO. MANUFACTURER'S NAME Walter Kidde AVROCAN SPEC. E420 E.O. NO. | | AVRO PART NO. 7-1150-5027 (8 off) 7-1150-5029 (1 off) | |
| ENVELOPE SIZE | WEIGHT | LB. | REF. DWGS. 7-1100-3 sht 8 |
| LOCATION Hydraulic Bay - Detector length 85 ft., assembled from nine lengths. | | REF. M.D.R. | |
| FUNCTION To detect ambient temperatures in excess of 232°C (450°F) or localized heating in excess of 288°C (550°F) | | RELIABILITY OVERHAUL LIFE 1500 HRS. WASTAGE Q.T.R. | |
| INSPECTION PERIOD | OPERATION TO BE PERFORMED | MEN X MINUTES | |
| | | EST. | ACTUAL |
| 25 Hrs. | Check that the electrical connectors are securely and properly fitted throughout the length of the conduit. Check that the loop is fitted securely throughout its length, to the aircraft structure. | 1 x 10 | |
| ACCESSIBILITY | | | |
| Hydraulic Bay access doors. | | | |
| ISSUE | 1 | | |
| DATE | 17 July 57 | | |
| COMPILED | W02 Wentworth | | |
| CHECKED | J. Ferguson | | |
| APPROVED | R.F. Reid | | |

LUBRICATION NIL

| APPLICATION | MATERIAL | SPECIFICATION | FREQUENCY | ACCESS |
|-------------|----------|---------------|-----------|--------|
| | | | | |

DETAILS:

GROUND SUPPORT EQUIPMENT

| SPECIAL TOOLS FOR AIRCRAFT USE | SPECIAL TOOLS FOR BENCH USE |
|--------------------------------|-----------------------------|
| NIL | NIL |

| GROUND TESTING EQUIPMENT | GROUND HANDLING EQUIPMENT |
|--------------------------|---------------------------|
| Multimeter | Work stand |

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

1. Disconnect the electrical connectors from loop sections
 2. Disconnect the conduct clips
- Remove and Replace 1 length

1 x 20

| MAINTENANCE DATA RECORD | | | | SYSTEM ELECTRICS (FIRE PROTECTION) | REF. NO. 11-E1526 |
|---|---|--------------------|--|--|----------------------|
| AVRO AIRCRAFT LTD. Engineering Div. | | A/C TYPE - Arrow 1 | | COMPONENT | |
| DISTRIBUTION: STANDARD + S. Brown K. Knowlton | | EFF. A/C - 25001 | | Fire Detection Loop (Engine Zone #1) | |
| MANUFACTURER'S PART NO. | | | | AVRO PART NO. | |
| MANUFACTURER'S NAME Walter Kidde | | | | 7-1195-29 - 3 off 7-1105-27 - 1 off | |
| AVROCAN SPEC. E420 E.O. NO. | | | | REF. DWGS. | |
| ENVELOPE SIZE 384.0" x 0.55" | | WEIGHT LB. | | 7-1195-1 7-1100-2 sht 27 7-1100-3 wnt 8 | |
| LOCATION Engine zone #1 - Fwd. of firewall L and R | | | | REF. M.D.R. 23-3 | |
| FUNCTION To indicate a fire in zone 1 when the total temperature of a minimum length of 6.0 inches of the sensing elements exceeds 600°F but shall not indicate a fire with a total temperature of 500°F the normal ambient temperature will be 300°F | | | | RELIABILITY | |
| | | | | OVERHAUL LIFE 1500 HRS. WASTAGE Q.T.R. Pending | |
| INSPECTION PERIOD | OPERATION TO BE PERFORMED | | | MEN X MINUTES | |
| | | | | EST. | ACTUAL |
| 25 hr. | Check for security. Check for continuity. Check for correct resistance. | | | 1 x 10 | |
| ACCESSIBILITY | | | | | |
| With engine removed. | | | | | |
| ISSUE | 1 | 2 | | | |
| DATE | December 8/56 | 30 Sept 57 | | | |
| COMPILED | W02 Wentworth | W02 Wentworth | | | |
| CHECKED | D. Collingwood | K.P. Lowe | | | |
| APPROVED | R.F. Reid | R.F. Reid | | | |

LUBRICATION NIL

| APPLICATION | MATERIAL | SPECIFICATION | FREQUENCY | ACCESS |
|-------------|----------|---------------|-----------|--------|
| | | | | |

DETAILS:

GROUND SUPPORT EQUIPMENT

| SPECIAL TOOLS FOR AIRCRAFT USE | SPECIAL TOOLS FOR BENCH USE |
|--------------------------------|-----------------------------|
| NIL | NIL |
| GROUND TESTING EQUIPMENT | GROUND HANDLING EQUIPMENT |
| Multimeter | NIL |

| INTERCHANGEABLE REPLACEABLE | XX | REMOVAL INSTRUCTIONS | MEN × MINUTES | |
|--------------------------------|----|---|---------------|--------|
| | | | EST. | ACTUAL |
| | | Disconnect cable clipping from faulty section. Disconnect temperature sensing element. Remove and Replace | 1 x 15 | |

| MAINTENANCE DATA RECORD | | | | SYSTEM ELECTRICS (FIRE PROTECTION) | | REF. NO. 11-E1527 11-E1528 | |
|---|----------------|---|---------------|---|---------------|----------------------------------|--------|
| AVRO AIRCRAFT LTD. | | Engineering Div. | | | | | |
| DISTRIBUTION: STANDARD + S. Brown | | A/C TYPE - Arrow 1 EFF. A/C - 25201 | | COMPONENT Engine Zone 2 Fire Detection Loop | | | |
| MANUFACTURER'S PART NO. 805267 | | | | AVRO PART NO. 7-1158-91 7-1158-87 | | | |
| MANUFACTURER'S NAME Walter Kidde | | | | | | | |
| AVROCAN SPEC. E420 E.O. NO. | | | | | | | |
| ENVELOPE SIZE 336.0" x 0.55" WEIGHT N/A LB. | | | | REF. DWGS. 7-1158-7 7-1100-3 sht 8 7-1100-2 sht 27 | | | |
| LOCATION Engine Zone #2 - Aft of firewall L and R | | | | | | | |
| FUNCTION To indicate a fire in Zone No. 2 when the total temperature of a minimum length of 6.0 inches of the sensing element exceeds 710°F, but shall not indicate a fire with a total temp. of 585°F. The normal ambient temp. will be 300°F. | | | | REF. M.D.R. | | | |
| | | | | RELIABILITY | | | |
| | | | | OVERHAUL LIFE 1500 HRS. | | | |
| | | | | WASTAGE | | | |
| | | | | Q.T.R. Pending | | | |
| INSPECTION PERIOD | | OPERATION TO BE PERFORMED | | | MEN X MINUTES | | |
| | | | | | EST. | | ACTUAL |
| 25 Hr. | | Check for security. Check for continuity. Check for correct resistance. | | | 1 x 10 | | |
| ACCESSIBILITY | | | | | | | |
| With engine removed. | | | | | | | |
| ISSUE | 1 | 2 | 3 | | | | |
| DATE | December 10/56 | March 18/57 | 30 Sept 57 | | | | |
| COMPILED | W02 Wentworth | D. Collingwood | W02 Wentworth | | | | |
| CHECKED | D. Collingwood | W02 Wentworth | K.P. Lowe | | | | |
| APPROVED | R.F. Reid | R.F. Reid | R.F. Reid | | | | |

LUBRICATION NIL

| APPLICATION | MATERIAL | SPECIFICATION | FREQUENCY | ACCESS |
|-------------|----------|---------------|-----------|--------|
| | | | | |

DETAILS:

GROUND SUPPORT EQUIPMENT

| SPECIAL TOOLS FOR AIRCRAFT USE | SPECIAL TOOLS FOR BENCH USE |
|--------------------------------|-----------------------------|
| NIL | NIL |
| GROUND TESTING EQUIPMENT | GROUND HANDLING EQUIPMENT |
| Multimeter | Maintenance Stand |

| INTERCHANGEABLE | XX | REMOVAL INSTRUCTIONS | MEN × MINUTES | |
|-----------------|----|---|---------------|--------|
| | | | EST. | ACTUAL |
| | | 1. Disconnect cable clipping from faulty section. 2. Disconnect temperature sensing element. Remove and Replace | 1 x 15 | |

