

SUBJECT:

Required maintenance for the Airframe Mounted Fuel Filter Installation
 (P/N 130-600204).

APPLICABILITY :

Aircraft with the subject modification embodied in accordance with TCCA STC
 No. SH20-44 or any relevant foreign approvals.

THE INFORMATION CONTAINED IN THIS DOCUMENT SHALL BE TREATED AS THE PROPERTY OF AIRBUS HELICOPTERS CANADA LIMITED (AHCA). THE RECIPIENT OF THIS DOCUMENT SHALL NOT DISCLOSE ANY INFORMATION CONTAINED HEREIN TO THIRD PARTIES WITHOUT THE WRITTEN PERMISSION OF AHCA, AND SHALL NOT USE OR REPRODUCE THIS DOCUMENT IN WHOLE OR IN PART FOR ANY PURPOSE OTHER THAN ITS ORIGINALLY INTENDED PURPOSE, OR TO EVALUATE ITS CONTENTS.

| | NAME AND SIGNATURE | DATE | COMPANY DEPARTMENT |
|--|--|------|------------------------|
| PREPARED BY: | Deborah Kerr Digitally signed by Deborah Kerr Date: 2020.10.19 12:03:20 -04'00' | | AHCA ENGINEERING |
| PREPARED BY: | | | |
| CHECKED BY: | Peter Sharpe Digitally signed by Peter Sharpe Date: 2020.10.19 12:12:55 -04'00' | | AHCA ENGINEERING |
| CHECKED BY: | Dan Kapuscinsky Digitally signed by Dan Kapuscinsky Date: 2020.10.20 13:26:52 -04'00' | | AHCA QUALITY ASSURANCE |
| REV. 1 ACCEPTED (Civil A/W Authority) | (As per ICA Compliance Check Sheet) | | TCCA |
| REV. 1 RELEASED BY: | Peter Sharpe Digitally signed by Peter Sharpe Date: 2020.10.28 09:08:34 -04'00' | | AHCA ENGINEERING |
| | | | |
| | | | |
| | | | |

RECORD OF REVISIONS

| Rev. | Pages at this Revision | Description, Reason Changed Pages | Prepared (name and date) | Checked (name and date) | App'd/Acc'd (Civil A/W Authority) (name and date) | Released (name and date) |
|------|------------------------|--|---------------------------|------------------------------|---|--------------------------------|
| 0 | 1 through 36 | Original Issue | D. Kerr 20 August 2015 | C. Timmins 20 August 2015 | N/A | P. Sharpe 24 September 2015 |
| 1 | 1 through 36 A1- A4 | General description revised. Hardware part numbers added to Figures. Addition of new overlay mask on the Caution and Warning Panel (Pages 5 to 11, 13 to 15, 17 to 36) | See page 1. | See page 1. | See page 1. | See page 1. |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

NOTE: Revisions to this document will be distributed to operators of this equipment by the STC holder.
 NOTE: Revised portions of affected pages are identified by a vertical black line in the margin adjacent to the change.
 NOTE: Minor changes are released in accordance with TCCA - ACCEPTED CAR 521- 154 procedures (ref. DAPM- E- 0001).

Transport Canada Accepted

CONTENTS

| SECTION | TITLE | PAGE |
|------------|--|--------|
| 1 | GENERAL | 5 |
| 2 | AIRWORTHINESS LIMITATIONS | 16 |
| 3 | CONTROL AND OPERATION | 17 |
| 4 | INSPECTION SCHEDULE AND MAINTENANCE ACTION | 17 |
| 5 | REPLACEMENT COMPONENTS AND REPAIR/OVERHAUL INFORMATION .. | 22 |
| 6 | TROUBLESHOOTING | 22 |
| 7 | SPECIAL TOOLING | 24 |
| 8 | REMOVAL AND REPLACEMENT | 24 |
| 9 | WEIGHT AND BALANCE DATA | 31 |
| 10 | PLACARDS AND MARKINGS | 32 |
| Appendix A | Operating & Design Specifications, Fuel Filter Assembly, Pat no.: 1743640- 01 (4 pages) | A1- A4 |

FIGURES

| FIGURE | TITLE | PAGE |
|--------|--|------|
| 1 | General Layout | 6 |
| 2 | Fuel Filter Installation | 7 |
| 3 | Airframe- Mounted Fuel Filter Installation - detachable provisions | 8 |
| 4 | Airframe- Mounted Fuel Filter Installation | 9 |
| 5 | Fuel Tank Outlet | 10 |
| 6 | Airframe- Mounted Fuel Filter Installation - fixed provisions | 11 |
| 7 | Installation of Doublers on Transmission Deck | 12 |
| 8 | Bottom plate and clip on Transmission Deck | 13 |
| 9 | Airframe- Mounted Fuel Filter, Wiring Diagram | 23 |
| 10 | Overlay Mask on Caution and Warning Panel | 32 |
| 11 | Typical label location on the Fuel Filter | 33 |
| 12 | Typical label location inside cargo compartment | 34 |
| 13 | Typical location for identification tag on hose | 35 |
| 14 | Typical label location on fuel filter cover | 36 |

CONTENTS (continued)
TABLES

| TABLE | TITLE | PAGE |
|-------|--|------|
| 1 | Before the first flight of each day | 17 |
| 2 | Inspection Schedule and Maintenance Action Every 150 FH or 12 M (Margin: 15 FH or 36 D) | 18 |
| 3 | Inspection Schedule and Maintenance Action Every 600 FH or 24 M (Margin: 60 FH or 73 D) | 20 |
| 4 | Troubleshooting Guide | 22 |

Transport Canada - Accepted

AIRBUS HELICOPTERS CANADA LIMITED**1. GENERAL**

- A. The installation of the Airframe-Mounted Fuel Filter provides additional fuel filtering capability upstream of the existing engine mounted fuel filter. The unit has a finer filtration rating than the existing engine mounted fuel filter. Refer to Figure 1 for General Layout.

An "AF F FILT" annunciator warning light will illuminate on the Caution and Warning Panel during flight indicating an impending bypass of the airframe- mounted fuel filter. Refer to Figure 1, VIEW Y.

The fuel filter unit is mounted on the transmission deck. A containment box surrounds the filter which has a removable maintenance cover. The fuel lines are of the same double walled construction as the other fuel lines on the aircraft.

The Airframe- Mounted Fuel Filter consists of the following main components:

Fixed Provisions

- Filter Support Assembly
- Bottom Plate
- Drain Pan Assembly
- Harness Assembly

Detachable Provisions

- Fuel Filter
- Fuel Filter Cover Assembly
- Hose Assemblies

The Airframe-Mounted Fuel Filter is installed in accordance with Installation Procedure IP- AHCA- 139.

- B. These Instructions for Continued Airworthiness are applicable to aircraft with the subject modification embodied.

Transport Canada Accepted

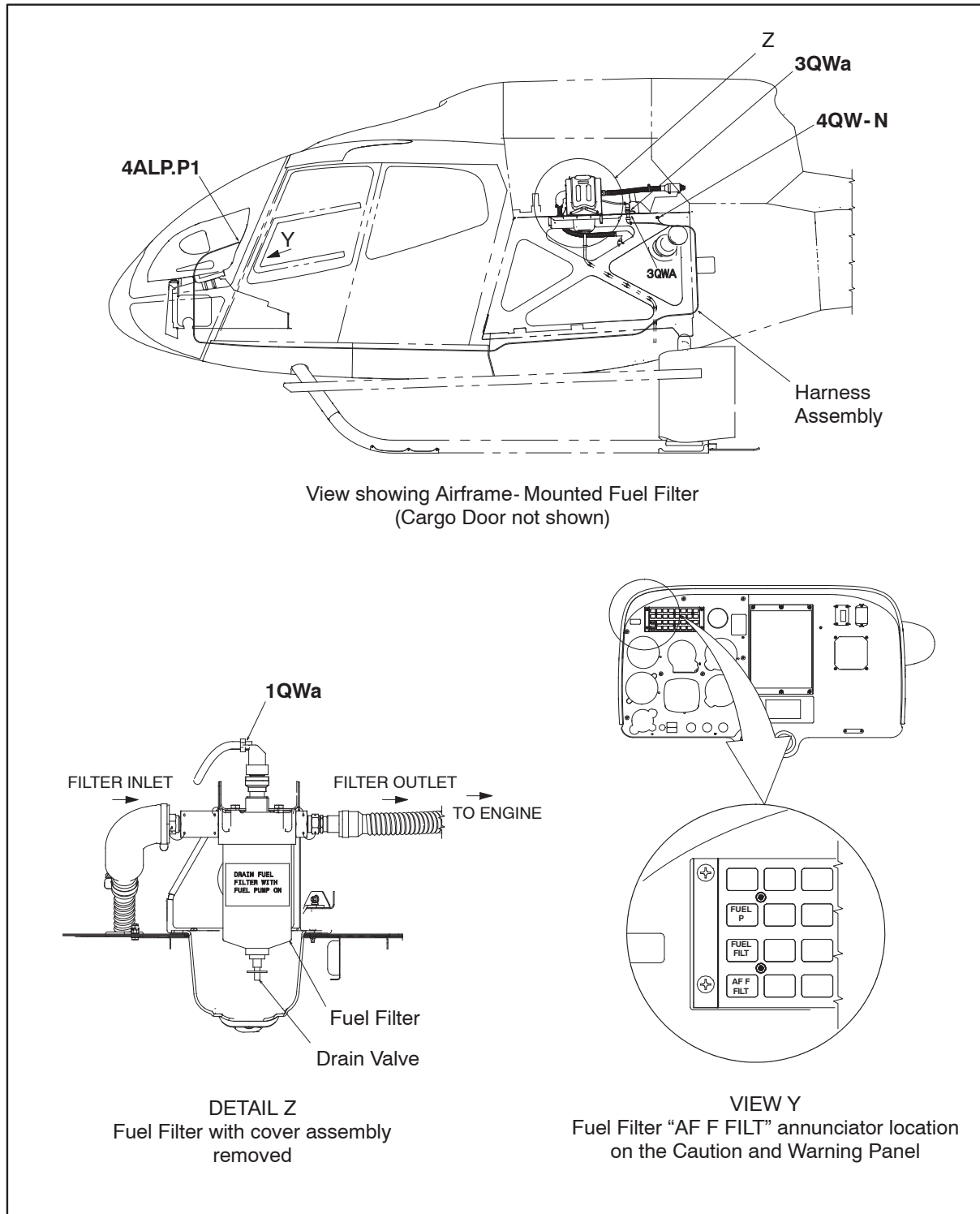


Figure 1 General Layout

Transport Canada Accepted

AIRBUS HELICOPTERS CANADA LIMITED

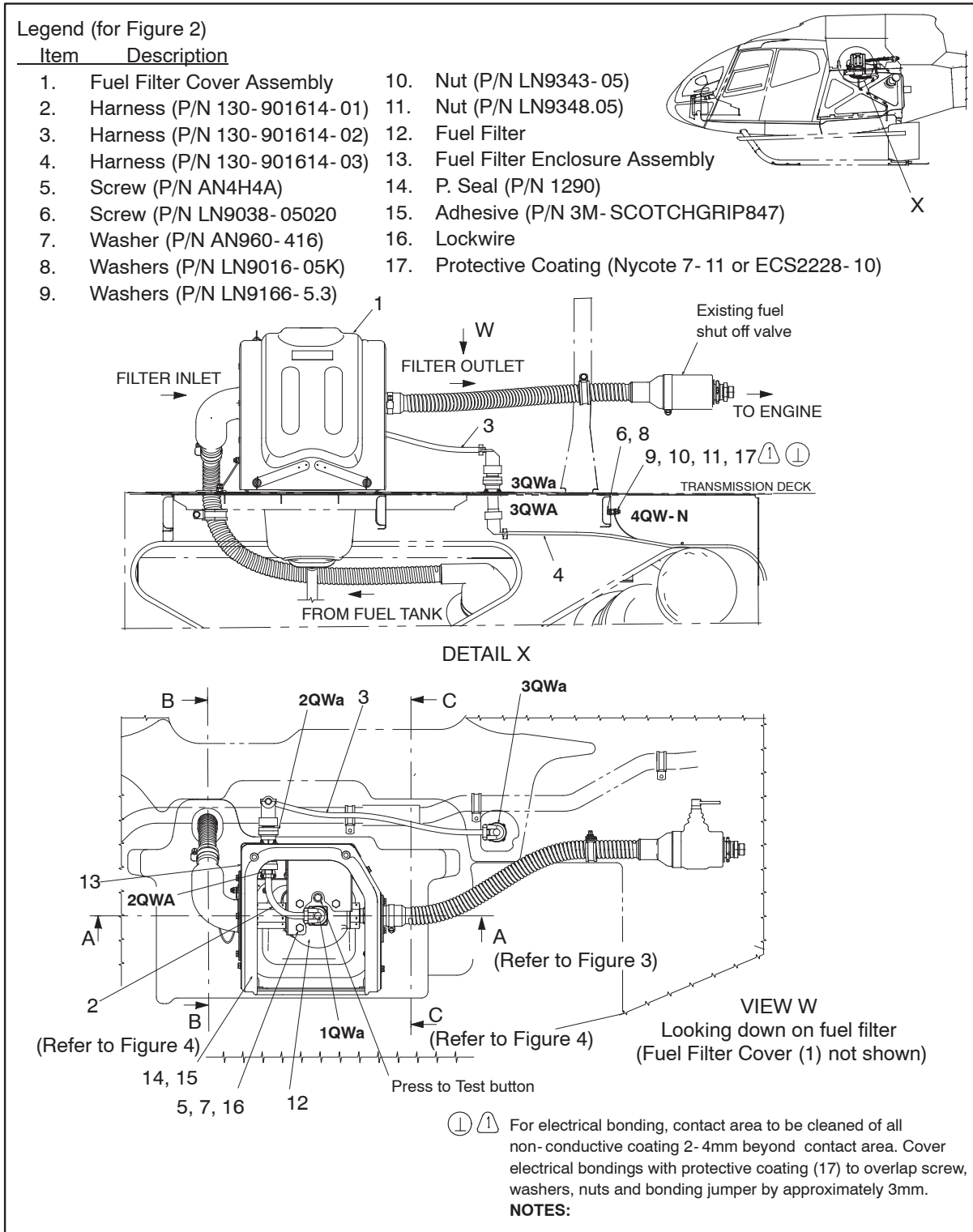


Figure 2 Fuel Filter Installation

Transport Canada Accepted

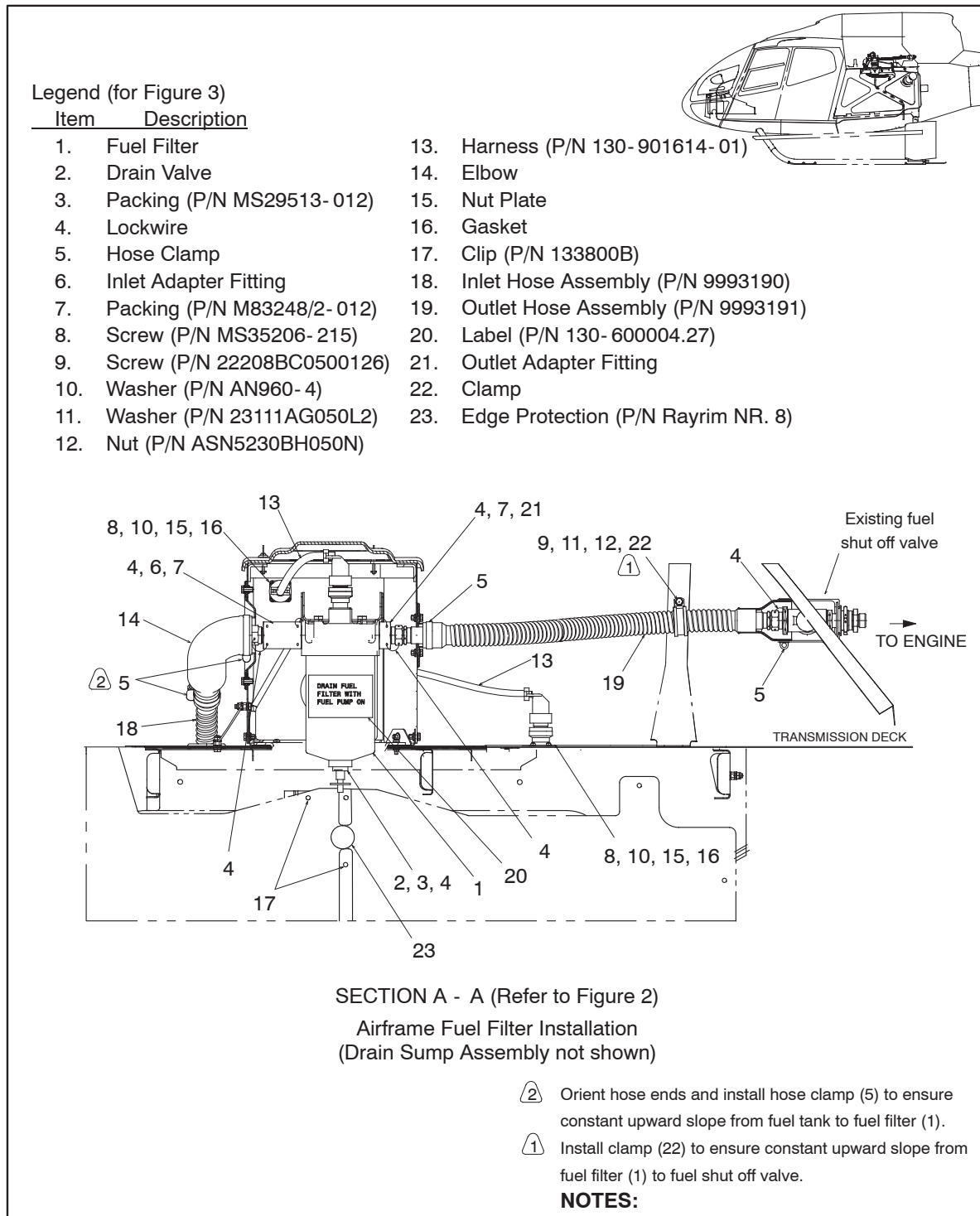
AIRBUS HELICOPTERS CANADA LIMITED


Figure 3 Airframe- Mounted Fuel Filter Installation - detachable provisions

Transport Canada Accepted

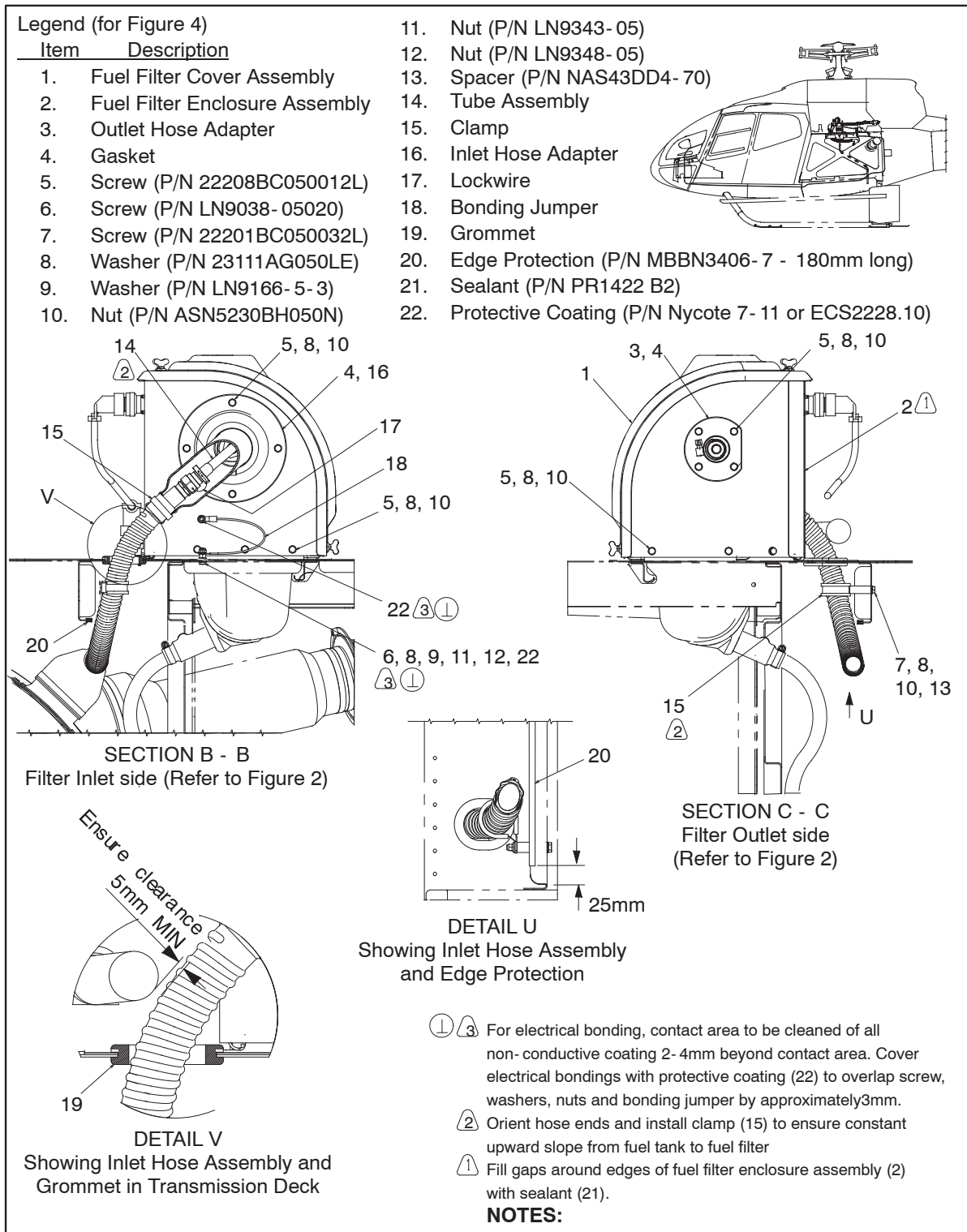
AIRBUS HELICOPTERS CANADA LIMITED


Figure 4 Airframe- Mounted Fuel Filter Installation

Transport Canada Accepted

AIRBUS HELICOPTERS CANADA LIMITED

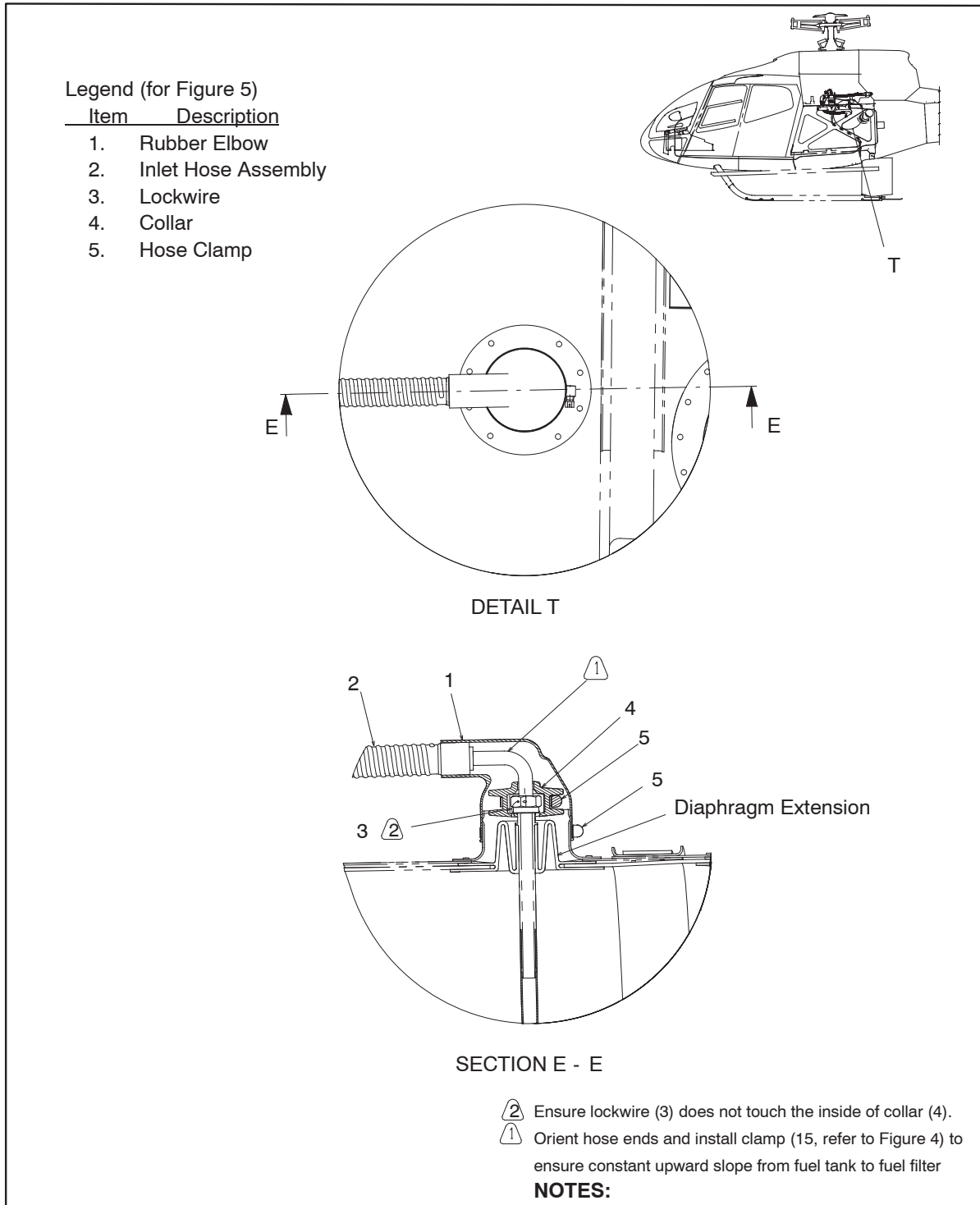


Figure 5 Fuel Tank Outlet

Transport Canada Accepted

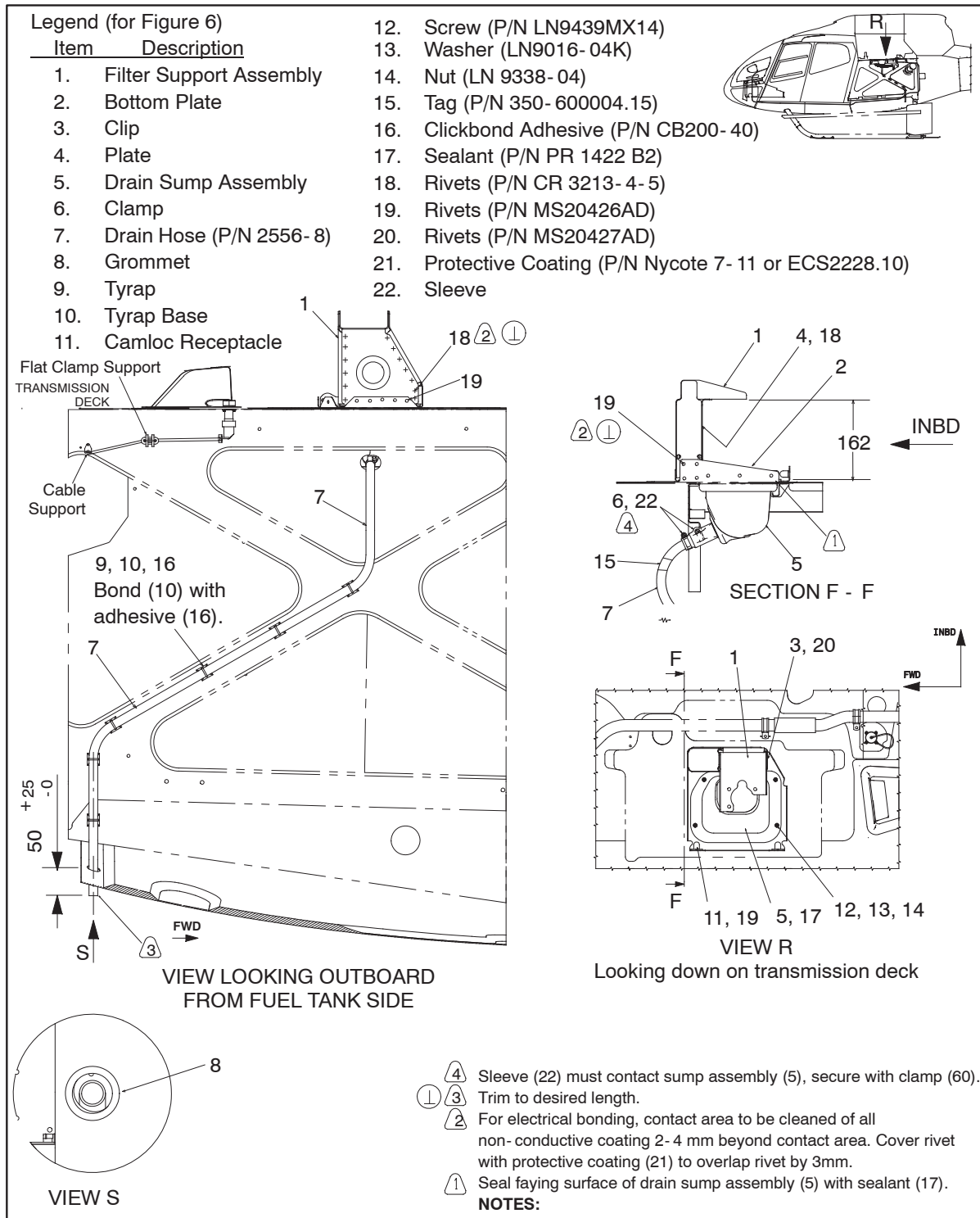
AIRBUS HELICOPTERS CANADA LIMITED


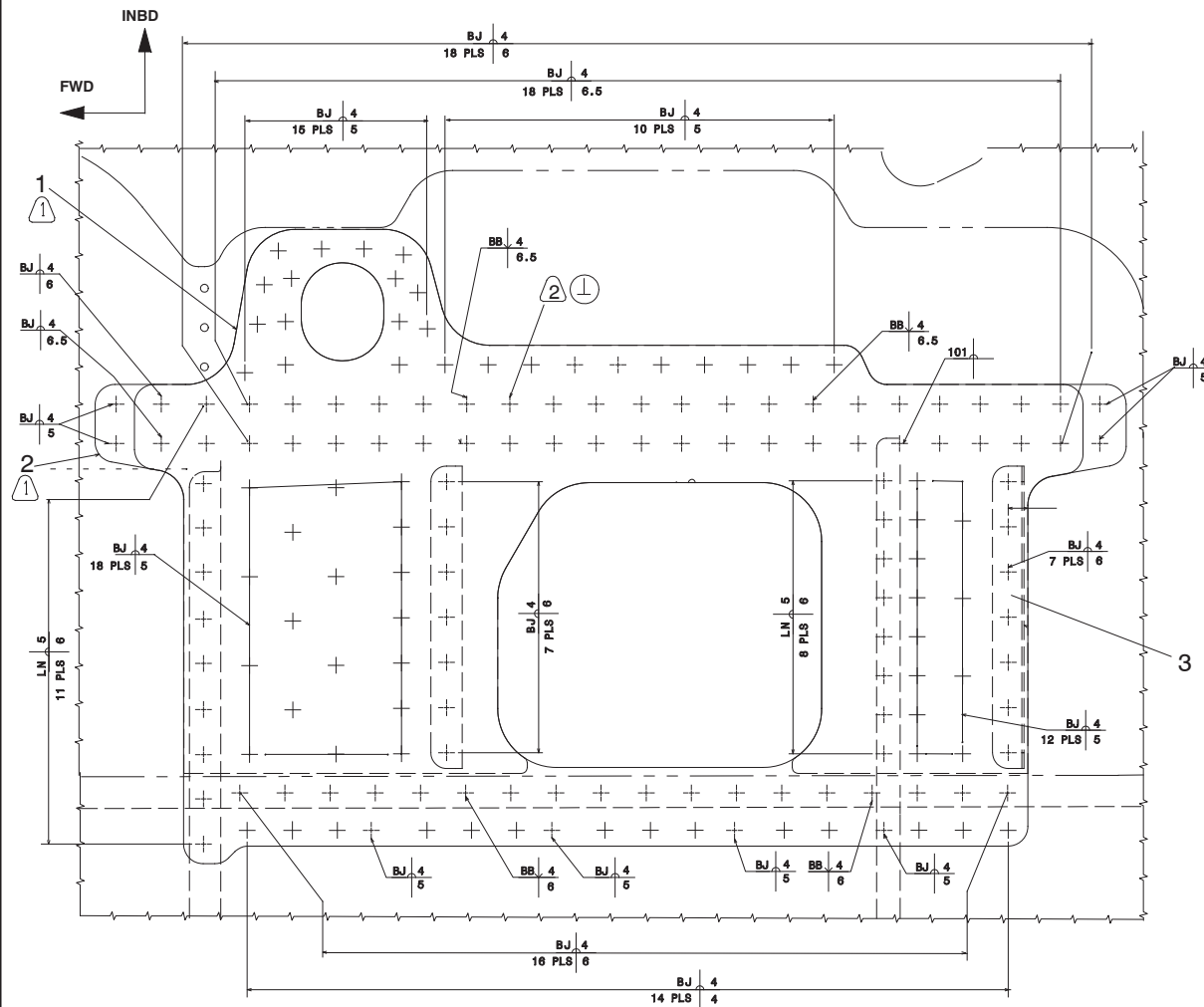
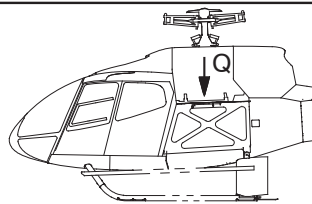
Figure 6 Airframe- Mounted Fuel Filter Installation - fixed provisions

Transport Canada Accepted

AIRBUS HELICOPTERS CANADA LIMITED

Legend (for Figure 7)

| Item | Description |
|------|--------------------------|
| 1. | Top Doubler |
| 2. | Bottom Doubler |
| 3. | Floor Stiffener |
| 4. | Sealant (P/N PR 1422 B2) |


VIEW Q

View looking down on Transmission Deck

Rivet Code

| Code | Type |
|------|---------------|
| BB | MS20426AD |
| BJ | MS20470AD |
| LN | MS20615- ()M |

- Ⓛ Ⓜ For electrical bonding, contact area to be cleaned of all non- conductive coating 2- 4 mm beyond contact area.
- Ⓛ Seal faying surfaces and fillet edges of both doublers (1 & 2) to transmission deck using sealant (4).

NOTES:

Figure 7 Installation of Doublers on Transmission Deck

Transport Canada Accepted

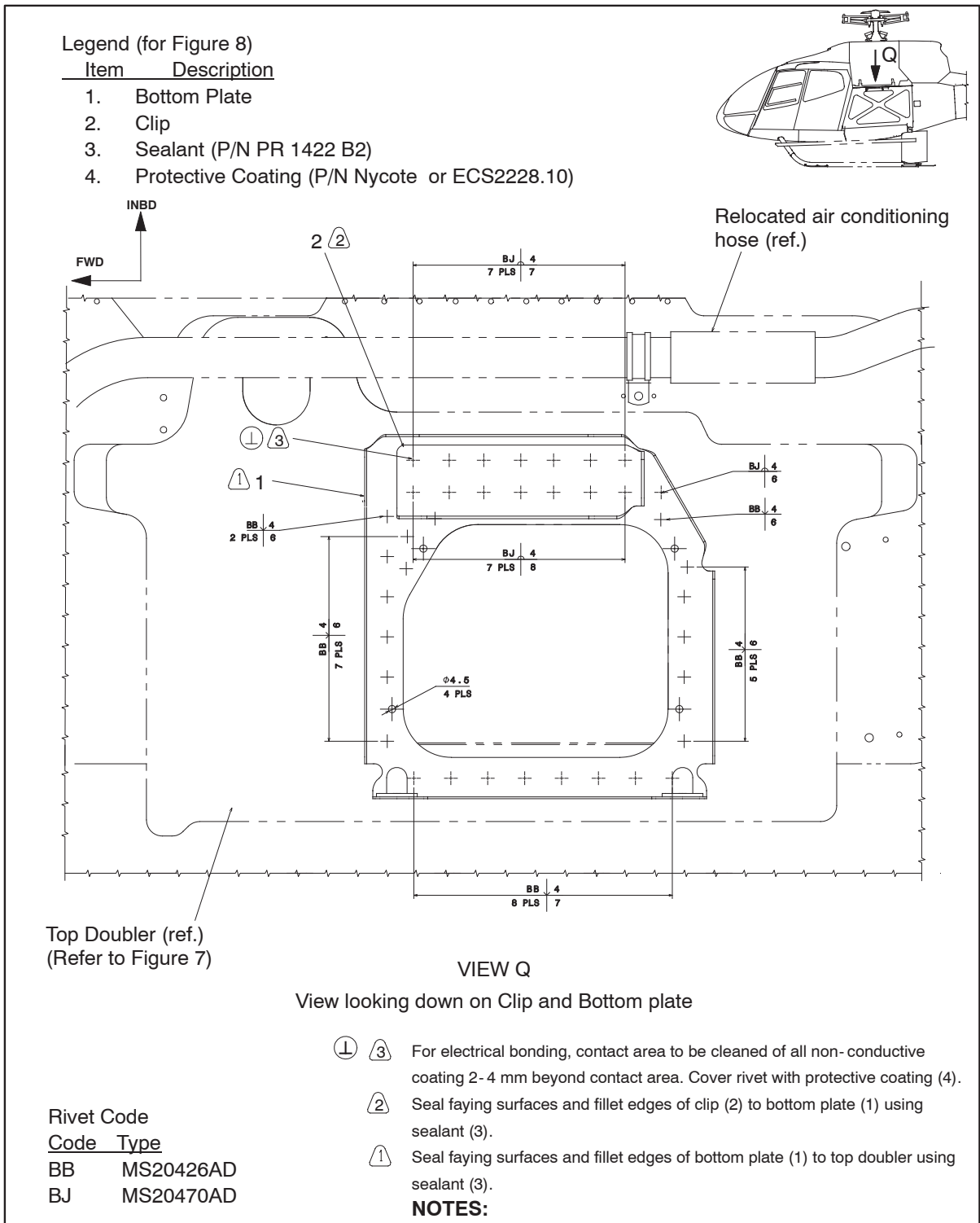


Figure 8 Bottom plate and clip on Transmission Deck

Transport Canada Accepted

AIRBUS HELICOPTERS CANADA LIMITED
C. REFERENCES

| DOCUMENT | DOCUMENT TITLE |
|----------------------------|--|
| AC- 43.13 - 1B | Advisory Circular, Acceptable Methods Techniques and Practices- Aircraft Inspection and Repair |
| AMM | Aircraft Maintenance Manual |
| IP- AHCA- 139 | Installation Procedure |
| Manual Number- 1743640- 01 | "Operating and Design Specifications", Fuel Filter Assembly, Purolator Products Company |
| MTC | Standard Practices Manual |

D. ABBREVIATIONS & DEFINITIONS

| ABBREVIATION | DEFINITION |
|--------------|--|
| AF F FILT | Airframe Fuel Filter |
| AHCA | Airbus Helicopters Canada Limited |
| Acc'd | Accepted |
| App'd | Approved |
| App | Appendix |
| A/W | Airworthiness |
| CAR | Canadian Aviation Regulations |
| D | Days |
| Nm | Newton Meter |
| DAPM | Design Approval Procedure Manual |
| FAA | Federal Aviation Administration |
| FH | Flight Hours |
| FILT | Filter |
| FUEL P | Fuel Pressure |
| FWD | Forward |
| hrs | hours |
| ICA | Instructions for Continued Airworthiness |
| INBD | Inboard |
| LH | Left- Hand |
| LHS | Left- Hand Side |
| LSTC | Limited Supplemental Type Certificate |
| M | Months |
| max. | maximum |
| MDL | Master Drawing List |
| MGB | Main Gear Box |
| min. | minimum |
| P/N | Part Number |
| PSI | Pounds Per Square inch |
| ref. | reference |
| Rev. | Revision |
| STC | Supplemental Type Certificate |
| TCCA | Transport Canada Civil Aviation |
| §§ | Sections |

Transport Canada Accepted

E. UNITS OF MEASUREMENT

| ABBREVIATION / SYMBOL | UNIT OF MEASUREMENT |
|-----------------------|---------------------|
| in | inch |
| kg | kilogram |
| lb | pound |
| mm | millimeters |
| mbar | millibar |

Transport Canada Accepted

2. AIRWORTHINESS LIMITATIONS

The Airworthiness Limitations section is approved by the Minister and specifies maintenance required by any applicable airworthiness or operating rule unless an alternative program has been approved by the Minister.

The Airworthiness Limitations section is FAA approved and specifies inspections and other maintenance required under §§43.16 and 91.403 of Federal Aviation Regulations unless an alternative program has been FAA approved.

The airworthiness limitations section is approved and variations must also be approved.

No airworthiness limitations associated with this installation.

AIRBUS HELICOPTERS CANADA LIMITED
3. CONTROL AND OPERATION

Apart from the following, control and operation of the aircraft remains unchanged:

The Airframe - Mounted Fuel Filter is an additional filter forward of the existing engine mounted fuel filter. The "AF F FILT" annunciator lamp on the Caution and Warning Panel will illuminate signaling an impending by-pass. Refer to Figure 1. A partially blocked filter element will cause the differential pressure switch in the head assembly to close and the "AF F FILT" annunciator to illuminate. If the filter element becomes fully blocked, a differential pressure activated valve will permit fuel to bypass the filter.

For information on operating the "Purolator" Fuel Filter, refer to the "Purolator" Operating and Design Specifications, Fuel Filter Assembly Manual, Document Number 1743640-01 (Appendix A).

4. INSPECTION SCHEDULE AND MAINTENANCE ACTION

NOTE: Filter Element can be replaced more frequently if operational requirements dictate.

NOTE: Should the AF F FILT annunciator light illuminate, the fuel filter element must be replaced.

Refer to Section 8 if removing or replacing any parts.

Refer to the "Purolator" Operating and Design Specifications, Fuel Filter Assembly Manual, Document Number 1743640-01, dated February 6, 2020 (or latest version). Refer to Appendix A of this document.

NOTE: Use torque per MTC, Chapter 20.02.05.404, unless otherwise specified.

NOTE: Remove Fuel Filter Cover Assembly to gain access to filter assembly and re-install after inspection/maintenance.

4.1. INSPECTION SCHEDULE
4.1.1. Before the first flight of each day:

| ITEM | INSPECTION OR MAINTENANCE WORK | CORRECTIVE ACTION |
|------|---|---|
| A | - Turn on fuel pump and check Fuel Filter (1), shown in Figure 3 for: <ul style="list-style-type: none"> a. water in fuel (if OAT >0°C) b. leaks and security | <ul style="list-style-type: none"> a. Open drain valve (2), purge any water from the system. b. Close drain valve (2) and check for leaks and security. Check valve seating, replace packing (3, P/N MS29513-012) as necessary. |
| B | - Turn off fuel pump and check Fuel Filter (1), shown in Figure 3 for: <ul style="list-style-type: none"> a. debris in drain sump assembly (5), below the filter and/or on the transmission deck. (Refer to Figure 6). b. secure mounting and connection of fuel filter (1) and inlet hose (18) and outlet hose (19). | <ul style="list-style-type: none"> a. Remove debris and clean as necessary. b. Secure as required. |

Table 1 Inspection Schedule and Maintenance Action
 Before the first flight of each day
 (continued on following page)

Transport Canada Accepted

AIRBUS HELICOPTERS CANADA LIMITED
4. INSPECTION SCHEDULE AND MAINTENANCE ACTION (continued)
4.1.1. Before the first flight of each day:

| ITEM | INSPECTION OR MAINTENANCE WORK | CORRECTIVE ACTION |
|------|---|---|
| C | - Push the Press to Test button located on the inboard side of the Fuel Filter, shown in Figure 2: a. The AF F FILT annunciator - lamp must illuminate. b. Ensure light goes out when Press to Test Button is released. | a. If lamp fails to illuminate, refer to Chapter 6, Troubleshooting, item 1, in this document. b. If lamp fails to go out, do the fault isolation procedure for the Caution and Warning Panel. Refer to EC 130 T2 AMM, Chapter 31-51-00, 1- 1. |

Table 1 Inspection Schedule and Maintenance Action
 Before the first flight of each day

NOTE: The “Before the first flight of each day” task can be carried out by a suitably trained pilot or maintenance personnel.

4.1.2. Every 150 FH or 12 M (Margin: 15 FH or 36 D) to coincide with the 150 FH or 12 M helicopter inspection, whichever occurs first:

| ITEM | INSPECTION OR MAINTENANCE WORK | CORRECTIVE ACTION |
|------|---|---|
| A | - Push the Press to Test Button located on the inboard side of the Fuel Filter, shown in Figure 2: a. The “AF F FILT” annunciator - lamp must illuminate. b. Ensure light goes out when Press to Test Button is released. | a. If lamp fails to illuminate, refer to Chapter 6, Troubleshooting, item 1, in this document. b. If lamp fails to go out, do the fault isolation procedure for the Caution and Warning Panel. Refer to EC 130 T2 AMM, Chapter 31-51-00, 1- 1. |
| B | - Visually inspect Harness Assemblies (2, 3 & 4), shown in Figure 2 for: a. cracks, fraying, burns and chaffing b. security | a. Contact AHCA for replacement harness. b. Secure as required. |
| C | - Check P- Seal (14), shown in Figure 2 for: a. security b. cracking | a. Secure P- Seal using adhesive (15) (P/N 3M- Scotchgrip847). b. No cracking is allowed. If cracking is found, contact AHCA for replacement parts. |
| D | - Check hardware at ground location (4QW- N) shown in Figure 2 for: a. security | a. Secure as required. |

Table 2 Inspection Schedule and Maintenance Action
 Every 150 FH or 12 M, to coincide with the 150 FH or 12 M helicopter inspection, whichever occurs first
 (continued on following page)

Transport Canada Accepted

AIRBUS HELICOPTERS CANADA LIMITED
4. INSPECTION SCHEDULE AND MAINTENANCE ACTION (continued)

4.1.2. Every 150 FH or 12 M (Margin: 15 FH or 36 D) to coincide with the 150 FH or 12 M helicopter inspection, whichever occurs first:

| ITEM | INSPECTION OR MAINTENANCE WORK | CORRECTIVE ACTION |
|------|---|---|
| E | - Check mounting hardware (8 & 10) for harness item 13, shown in Figure 3 for: a. security | a. Secure as required. |
| F | - Check inlet hose (18) and outlet hose (19), shown in Figure 3 for: a. leaks b. cracking | a. If leaks are found, contact AHCA for replacement hose. Refer to Figure 3 for part numbers. b. No cracking is allowed. If cracking is found, contact AHCA for replacement parts. |
| G | - Check edge protection (23) on FWD and AFT panel in cargo compartment, shown in Figure 3 for: a. wear | a. Replace edge protection if signs of deterioration or damage is present. |
| H | - Check fuel filter cover assembly (1) and fuel filter enclosure assembly (2), shown in Figure 4 for: a. cracking b. loose hardware at attachment locations | a. No cracking allowed. If cracks are found contact AHCA for replacement parts. b. Secure as required. |
| I | - Check bonding jumper (18), shown in Figure 4 for: a. security b. cracking c. kinking | a. Secure as required. b. No cracking is allowed. Contact AHCA for replacement part if cracking found. c. If kinking found, adjust as required. |
| J | - Check edge protection (20) on aircraft frame in cargo compartment, shown in Figure 4 for: a. wear | a. Replace edge protection if signs of deterioration or damage is present. |
| K | - Check drain sump assembly (5), shown in Figure 6 for: a. cracks or deformation | a. No cracks or deformation are allowed. If cracks or deformation are found, contact AHCA for replacement parts. |

Table 2 Inspection Schedule and Maintenance Action
 Every 150 FH or 12 M, to coincide with the 150 FH or 12 M helicopter inspection, whichever occurs first
 (continued on following page)

Transport Canada Accepted

AIRBUS HELICOPTERS CANADA LIMITED
4. INSPECTION SCHEDULE AND MAINTENANCE ACTION (continued)

4.1.2. Every 150 FH or 12 M (Margin: 15 FH or 36 D) to coincide with the 150 FH or 12 M helicopter inspection, whichever occurs first:

| ITEM | INSPECTION OR MAINTENANCE WORK | CORRECTIVE ACTION |
|------|---|--|
| L | - Check drain hose (7), shown in Figure 6 for: a. leaks b. cracking c. Check clamp (6) for security | a. If leaks are found, contact AHCA for replacement hose. Refer to Figure 6 for Part Number. b. No cracking is allowed. If cracking is found, contact AHCA for replacement parts. c. Secure as required. |
| M | - Check sleeve (22), shown in Figure 6 for: a. security | a. Ensure sleeve has not dislocated. Sleeve must contact drain sump assembly (5). |
| N | - Check top doubler (1) and bottom doubler (2), shown in Figure 7 for: a. cracks or corrosion | a. No cracks or corrosion are allowed. If cracks or deformation are found, contact AHCA for replacement parts. |
| O | - Check bottom plate (1), clip (2), shown in Figure 8 and filter support assembly (1), shown in Figure 6 for: a. cracks or corrosion | a. No cracks or corrosion are allowed. If cracks or corrosion are found, contact AHCA for replacement parts. |
| P | - Check placards and markings shown in Figures 10, 11, 12, 13 & 14 (Section 10) for: a. legibility b. secure mounting | a. If placards and markings have become illegible, contact AHCA for replacement parts. b. Secure, reattach placards as required. |

Table 2 Inspection Schedule and Maintenance Action

Every 150 FH or 12 M, to coincide with the 150 FH or 12 M helicopter inspection, whichever occurs first

4.1.3. Every 600 FH or 24 M (Margin: 60 FH or 73 D) to coincide with the 600 FH or 24 M helicopter inspection, whichever occurs first:

| ITEM | INSPECTION OR MAINTENANCE WORK | CORRECTIVE ACTION |
|------|--|---|
| A | Perform Operational Test - Fuel Filter Switch and Bypass Valve | See Operational Test Instructions in Section 4.1.4. of this document. |
| B | Replace Fuel Filter Element | See Replacement Instructions in Section 4.1.5. of this document. |

Table 3 Inspection Schedule and Maintenance Action

Every 600 FH or 24 M, to coincide with the 600 FH or 24 M helicopter inspection, whichever occurs first

Transport Canada Accepted

4. INSPECTION SCHEDULE AND MAINTENANCE ACTION (continued)**4.1.4. Operational Test - Fuel Filter Switch and Bypass Valve**

NOTE: This test simulates a clogged filter test.

- a. Observe FUEL SYSTEM General Safety Instructions. Refer to AMM, Chapter 28-00-00, 3-1.
- b. Remove cover from enclosure.
- c. Apply power to annunciator panel. Press the differential pressure switch Test Button on the top of the fuel filter, AF F FILT annunciator must illuminate.
- d. Drain filter bowl into a container.
- e. Replace filter element with clean dummy element (P/N 1741185) and re- install filter bowl.
- f. Turn on fuel pump and start engine. Failure to start engine may indicate improper bypass valve functioning.
- g. The AF F FILT annunciator should illuminate.
- h. When test is successfully completed, shut down engine, turn off fuel pump and drain filter bowl into a container. Remove dummy element and install filter element. Follow instructions given in Section 4, 4.1.5. Replacement - Fuel Filter Element.
- i. Open fuel filter bowl drain valve and operate fuel pump until all air is purged. Close fuel filter drain valve and ensure there are no leaks.
- j. Replace cover of enclosure.
- k. Reconnect the existing engine mounted fuel filter connector.

4.1.5. Replacement - Fuel Filter Element

- a. Observe FUEL SYSTEM General Safety Instructions. Refer to AMM, Chapter 28-00-00, 3-1.
- b. Remove cover from enclosure.
- c. Drain fuel from filter bowl into a container.
- d. Refer to Appendix A "Operating Instructions" Purolator Products Company for Fuel Filter Element Change.
- e. Once fuel filter is installed, operate fuel pump and open fuel filter bowl drain valve until all air is purged.

NOTE: The Purolator Filter Assembly (Part No. 1743640- 01) Replacement Element Kit is also available, Purolator Products Company Part No. 1743645.02. This kit consists of a seal, an O- ring and an element assembly.

Transport Canada Accepted

AIRBUS HELICOPTERS CANADA LIMITED
5. REPLACEMENT COMPONENTS AND REPAIR/OVERHAUL INFORMATION

Contact AHCA for replacement parts. No overhaul information required for this installation.

For replacement components or repair information:

Airbus Helicopters Canada Limited
 1100 Gilmore Road, P.O. Box 250
 Fort Erie, Ontario L2A 5M4 Canada
 Telephone: (905) 871- 7772
 Telefax: (905) 871- 3599

Website: www.airbushelicopters.ca

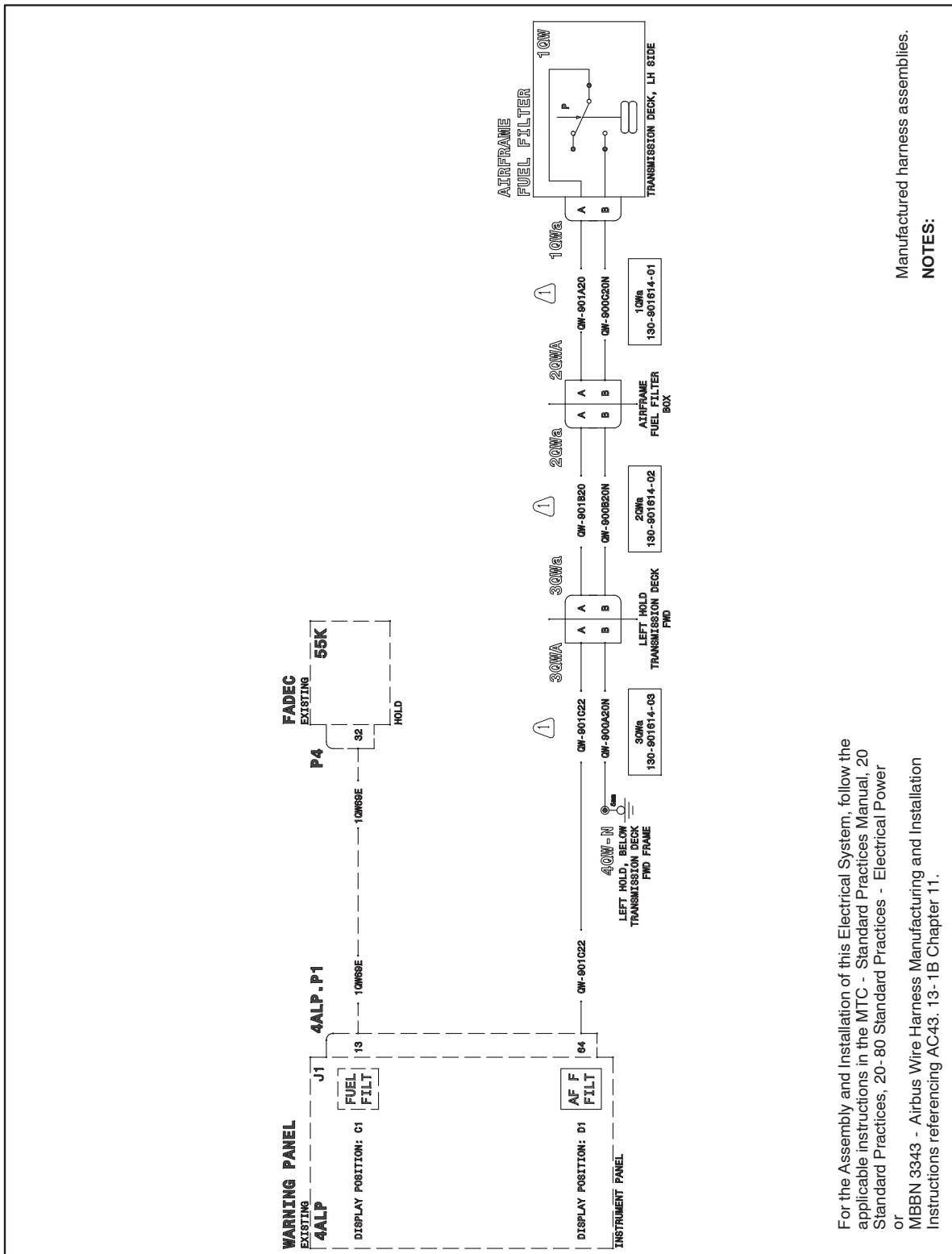
6. TROUBLESHOOTING

For electrical system troubleshooting, refer to Figure 9, Airframe- Mounted Fuel Filter, Wiring Diagram. Remove cover to gain access to fuel filter and re- install after maintenance.

| ITEM | TROUBLE SYMPTOM | PROBABLE CAUSE | CORRECTIVE ACTION |
|------|---|---|---|
| 1 | AF F FILT lamp does not illuminate during either the "Before the first flight of each day Inspection", "150 flight hours check" or the "Operational Test (600 flight hours check)". | Break or short in annunciator circuit Caution and Warning Panel Fuel Filter Head Assembly defective | Do the fault isolation procedure for the Caution and Warning Panel. Refer to EC 130 T2 AMM, Chapter 31-51-00, 1- 1. Do the fault isolation procedure for the Caution and Warning Panel. Refer to EC 130 T2 AMM, Chapter 31-51-00, 1- 1. Replace Head Assembly, refer to the Purolator Documentation |
| 2 | AF F FILT lamp illuminates during operations. | Excessive contamination in fuel supply. Filter is blocked. Short in annunciator circuit. | Check quality of fuel supply. Replace filter element. Perform circuit continuity check and repair/replace wiring as applicable in accordance with AC 43.13- 1B, Chapter 11, Section 1. |

Table 4 Troubleshooting Guide

Transport Canada Accepted



Manufactured harness assemblies.
NOTES:

For the Assembly and Installation of this Electrical System, follow the applicable instructions in the MTC - Standard Practices Manual, 20 Standard Practices, 20-80 Standard Practices - Electrical Power or MBBN 3343 - Airbus Wire Harness Manufacturing and Installation Instructions referencing AC43.13-1B Chapter 11.

Figure 9 Airframe- Mounted Fuel Filter, Wiring Diagram

AIRBUS HELICOPTERS CANADA LIMITED**7. SPECIAL TOOLING**

No special test equipment or tools are required. Standard tools are adequate.

8. REMOVAL AND REPLACEMENT

- Comply with General Safety Instructions for the Fuel System in accordance with EC 130 T2, AMM, Chapter 28- 00- 00, 3- 1.
- Defuel the helicopter in accordance with Filling/Draining- Servicing EC 130 T2, Chapter 12- 10- 00, 3- 2.
- Comply with General Safety Instructions for the Mechanical assemblies in accordance with EC 130 T2 AMM Chapter 60- 00- 00, 3- 1.
- Read General Safety Instruction - Electrical Power Supply System, EC 130 T2, AMM, Chapter 24- 00- 00, 3- 1.
Observe General Repair Instructions Unriveting Principle - MTC, Chapter 20- 30- 01- 102
- Disconnect the external power in accordance with EC 130 T2, AMM, Chapter 24- 00- 00, 2- 1.
- Disconnect the battery in accordance with EC 130 T2, AMM, Chapter 24- 33- 00, 4- 1.
- Open the LH MGB cowling and the lateral cargo hold door.
- Remove the FWD and AFT panels in the LH cargo compartment.
- Disconnect harness (131Δ1 and 23Δ1) on transmission deck from support (2 DMCMD) and move out of working area.
- Remove fuel filter Cover Assembly (1) to gain access to the fuel filter. Refer to Figure 2.

A. REMOVAL

- 1) FUEL FILTER HARNESSSES (Refer to Figures 2 & 3 and Figure 9 Airframe- Mounted Fuel Filter, Wiring Diagram)
 - a) If removing harness assembly (1QWA) (2), disconnect harness assembly (2Qwa) (3) connection located behind the fuel filter enclosure assembly (13). Refer to VIEW W in Figure 2.
 - b) Remove screws (8, 4 places), washers (10, 4 places), gasket (16) and nut plate (15) securing harness assembly (1QWA) (2) to fuel filter enclosure assembly (13). Disconnect opposite end of harness from connector located on top of fuel filter (1). Refer to Figure 3.
 - c) If removing harness assembly (2QWa) (3), disconnect harness from behind fuel filter enclosure (13) and at transmission deck location. Refer to Figure 2.
 - d) If removing harness assembly (3QWA) (4) disconnect harness assembly (2Qwa) (3) from connection located on the transmission deck. Refer to DETAIL X in Figure 2.
 - e) Remove screws (8, 4 places), washers (10, 4 places), gasket (16) and nut plate (15) to disconnect harness assembly (4) from underneath the transmission deck. Refer to SECTION A - A in Figure 3.
 - f) Disconnect ground wire (4QW- N) and retain hardware. Refer to DETAIL X in Figure 2.
 - g) Follow harness under the cabin floor along the LHS of the aircraft to 4ALP.P1 pin 64 in the Caution and Warning Panel and disconnect existing wire QW- 901C22. Refer to DETAIL X in Figure 2 and refer to Figure 9.

Transport Canada Accepted

8. REMOVAL AND REPLACEMENT (continued)

A. REMOVAL (continued)

2) HOSES

OUTLET HOSE ASSEMBLY (Refer to Figure 3)

- a) On the outlet side of fuel filter (1) disconnect hose clamp (5). Refer to SECTION A - A in Figure 3.
- b) Cut and remove lockwire (4) between outlet hose assembly (19) and outlet adapter fitting (21) and disconnect hose.

NOTE If outlet hose assembly (19) is not being replaced,
position hose out of work area and cap end.

If hose is being replaced:

- c) Remove screw (9), washers (11, 2 places) and nut (12) that secure clamp (22) to the aircraft frame. Retain for reinstallation. Remove hose clamp (5), cut and remove lockwire (4) from existing fuel shut-off valve and remove outlet hose assembly (19).
- d) Retain hardware for reinstallation.

INLET HOSE ASSEMBLY (Refer to Figures 3, 4 & 5)

- a) On the inlet side of fuel filter (1) disconnect both hose clamps (5) from elbow (14). Refer to SECTION A - A in Figure 3.
- b) Remove screws (5, 4 places), washers (8, 4 places) and nuts (10, 4 places) and remove gasket (4) and inlet hose adapter (16) to gain access to tube assembly (14). Refer to SECTION B - B in Figure 4.
- c) Cut and remove lockwire (4) between tube assembly (14, shown in Figure 4) and inlet hose assembly (18) and disconnect hose. Refer to Figure 3.
- d) Cut and remove lockwire (4) between tube assembly (14, shown in Figure 4) and inlet adapter fitting (6) and disconnect tube assembly. Refer to Figure 3.

NOTE If inlet hose assembly (18) is not being replaced,
position hose out of work area and cap end.

If hose is being replaced:

- e) Disconnect clamp (15) located under the transmission deck. Retain hardware for reinstallation. Refer to SECTION C - C in Figure 4.
- f) Remove hose clamp (5) securing rubber elbow (1) to fuel tank outlet flange and pull diaphragm extension out of fuel tank to enable access to fuel tank connection. Refer to Figure 5.
- g) Carefully pull back rubber elbow (1) and remove hose clamp (5) from collar (4) and remove lockwire (3). Remove collar (4). Disconnect hose fitting.
- h) Retain hardware for reinstallation.

Transport Canada Accepted

AIRBUS HELICOPTERS CANADA LIMITED**8. REMOVAL AND REPLACEMENT (continued)****A. REMOVAL (continued)****3) FUEL FILTER (Refer to Figures 2 & 3)**

NOTE: Fuel Filter Hoses and Harness Assemblies must be disconnected.

- a) Cut and remove lockwire between outlet adapter fitting (21) and fuel filter (1). Refer to Figure 3.
- b) Remove outlet adapter fitting (21). Remove packing (7) from adapter fitting and discard.
- c) Cut and remove lockwire (4) between inlet adapter fitting (6) and fuel filter (1) and remove inlet adapter fitting (6). Remove packing (7) from inlet adapter fitting (6) and discard.
- d) Remove screws (5, 3 places), washers (7, 3 places) and lockwire (16) securing fuel filter (12). Remove the fuel filter and retain hardware. Refer to VIEW W and Figure 2.

4) FUEL FILTER ENCLOSURE ASSEMBLY (Refer to Figures 4)

NOTE: Ensure Harness Assemblies on inboard side of enclosure and hoses are disconnected.

- a) Remove nut (12) and washer (9) securing bonding jumper (18) to the transmission deck. Retain hardware for reinstallation. Refer to SECTION B - B.
- b) Remove screws (5, 6 places), washers (8, 12 places) and nuts (10, 6 places) securing fuel filter enclosure assembly (2) to bottom plate (2, shown in Figure 6). Refer to SECTION B - B and SECTION C - C.

5) DRAIN SUMP ASSEMBLY (Refer to Figures 3 & 6)

NOTE: Remove fuel filter and fuel filter enclosure.

- a) Remove FWD and aft panels in cargo compartment and remove both panels. Refer to SECTION A - A in Figure 3.
- b) Disconnect clamp (6) from sleeve (22) and pull sleeve back exposing clamp. Disconnect clamp from drain sump funnel and remove drain hose and sleeve. Retain both clamps and sleeve for reinstallation. Refer to VIEW LOOKING OUTBOARD and SECTION F - F in Figure 6.
- c) Remove screws (12, 4 places), washers (13, 8 places) and nuts (14, 4 places) from the drain sump assembly (5) and remove. Retain hardware for reinstallation. Refer to VIEW R in Figure 6.
- d) If drain hose is being replaced, cut tyrap (9) securing drain hose (7) behind X member. Remove drain hose (7) and discard. Refer to VIEW LOOKING OUTBOARD in Figure 6.

6) FILTER SUPPORT ASSEMBLY, BOTTOM PLATE, CLIP (Refer to Figure 6)

NOTE: Remove drain sump assembly.

- a) Drill out rivets securing filter support assembly (1) to clip (3) and bottom plate (2).
- b) Drill out rivets securing clip (3) and bottom plate (2) to the transmission deck.
- c) If replacing either the filter support assembly (1) the clip (3) or the bottom plate (2), discard damaged part. Refer to SECTION F - F and VIEW R.
- d) Retain camloc receptacles (11, 2 places) if replacing bottom plate (2). Refer to VIEW R.

7) TOP AND BOTTOM DECK DOUBLERS (Refer to Figure 7)

NOTE: Remove filter support assembly, bottom plate and clip.

- a) Drill out rivets securing top doubler (1) and bottom doubler (2) to the transmission deck and discard damaged part.
- b) Retain existing floor stiffeners for reinstallation.

Transport Canada Accepted

AIRBUS HELICOPTERS CANADA LIMITED**8. REMOVAL AND REPLACEMENT (continued)****B. REPLACEMENT**

NOTE Use torque per MTC, Chapter 20.02.05.404,
unless otherwise specified.

Comply with general safety instructions for mechanical assemblies - AMM, Chapter 60-00-00, 3-1

General sealing procedures - MTC, Chapter 20-05-01-101

General methods of applying sealing compounds - MTC, Chapter 20-05-01-102

General rules for bonding with adhesives - MTC, Chapter 20-06-01-101

Application of PR 1422 Class B sealant - MTC, Chapter 20-05-01-206

Electrical Bonding - MTC, Chapter 20.02.07.101

Safetying with cotter pin - MTC, Chapter 20-02-06-404

Safetying with lockwire - MTC, Chapter 20-02-06-402

**1) TOP AND BOTTOM FLOOR DOUBLERS, FILTER SUPPORT ASSEMBLY, BOTTOM PLATE, CLIP
(Refer to Figures 2, 3, 6, 7 & 8)**

a) Reposition bottom doubler (2) onto transmission deck. If replacing bottom doubler (2), position new bottom doubler (2) onto transmission deck. Align opening and existing pilot hole. Back drill holes from transmission deck into bottom doubler (2). Refer to VIEW Q in Figure 7.

b) Reposition top doubler (1) onto bottom doubler (2). If replacing top doubler (1), position new top doubler (1) onto transmission deck. Align opening and existing rivet holes. Back drill rivet holes from the transmission deck into top doubler (1). Refer to VIEW Q in Figure 7.

c) Reposition bottom plate (1) and clip (2) onto top doubler (1) using the filter support (1) to locate clip (2). If replacing bottom plate (1) or clip (2) back drill holes from transmission deck through bottom plate and clip and temporarily secure. Refer to VIEW Q, Figure 8.

d) Reposition fuel filter support assembly (1) inside bottom plate. If replacing fuel filter support assembly (1) match drill holes from bottom plate (1) and clip (2) and temporarily secure. Refer to Figure 8.

NOTE Ensure filter support assembly (1) is correct height (162mm)
from bottom plate. Refer to SECTION F - F, Figure 6.

e) Reposition existing plate (4) and match drill holes into filter support assembly (1) and temporarily secure. Refer to Figure 6.

f) Remove plate (4), filter support assembly (1), clip (2), bottom plate (1), and top and bottom deck doublers (1 and 2). Deburr all holes. Refer to Figures 6, 7 and 8.

g) Clean debris from transmission deck.

h) Apply fay sealant (4) and wet install top doubler (1) and bottom doubler (2) to the transmission deck. Secure doublers using rivets. Secure existing stiffener FWD of transmission deck cut-out and floor stiffener (3) aft of the transmission deck cut out using rivets. Refer to Figure 7.

NOTE Electrical bonding on top doubler (1), contact area to be cleaned
of all non-conductive coating 2-4 mm beyond contact area.
Refer to NOTE 2 in Figure 7.

Transport Canada Accepted

AIRBUS HELICOPTERS CANADA LIMITED**8. REMOVAL AND REPLACEMENT (continued)****B. REPLACEMENT**

- i) Apply sealant (3) and wet install bottom plate (1) onto top doubler (1, show in Figure 7) already on transmission deck and secure using rivets. Refer to Figure 8.
- j) If replacing bottom plate, reinstall camloc receptacles (11, 2 places) using rivets (19, 4 places). Refer to VIEW R in Figure 6.

NOTE For electrical bonding of rivet located top left of bottom plate (1) and clip (2). Contact area to be cleaned of all non- conductive coating 2- 4mm beyond contact area. Cover rivet with protective coating (4). Refer to NOTE 3 in Figure 8.

- k) Apply fay sealant (3) and wet install clip (2) on bottom plate (1) and secure using rivets. Apply fillet seal to outer edges of clip to bottom plate (1) using sealant (3). Refer to NOTE 1 in Figure 8.
- l) Secure inboard side of filter support assembly (1) to bottom plate (2) using rivets (19, 5 places). Refer to VIEW LOOKING OUTBOARD in Figure 6.
- m) Secure clip (3) to bottom plate (2) using rivets (20, 4 places). Refer to VIEW R in Figure 6.
- n) Secure filter support assembly (1) to bottom plate (2) using rivets (20, 4 places). Refer to SECTION F - F in Figure 6.

NOTE For electrical bonding of rivet (19), contact area to be cleaned of all non- conductive coating 2- 4mm beyond contact area. Cover rivet with protective coating (21). Refer to NOTE 2 in Figure 6.

- o) Reposition plate (4) onto filter support assembly (1) and clip (3) and secure using rivets (19, 18 places). Refer to SECTION F - F in Figure 6.
- p) Apply fay sealant (17) and wet install drain sump assembly (5) and secure using screws (12, 4 places), washers (13, 8 places) and nuts (14, 4 places). Refer to VIEW R in Figure 6.
- q) If fuel filter is being replaced place on work bench and install new packing (3). Install drain valve (2) to the base of the fuel filter. Safety using lockwire (4). Refer to SECTION A - A in Figure 3.
- r) Repack both adapter fittings (6 and 21) with new packing (7). Reconnect shorter adapter fitting to filter outlet side and longer adapter fitting to filter inlet side of the fuel filter. Safety using lockwire (4). Refer to SECTION A - A in Figure 3.
- s) Position the fuel filter into the channel of the filter support assembly and secure using screws (5, 3 places) and washers (7, 3 places). Safety using lockwire (16). Refer to VIEW W in Figure 2.
- t) Attach label (20) facing outboard on new fuel filter (1). Refer to SECTION A - A in Figure 3.
- u) Reposition fuel filter enclosure assembly (2) and secure using screws (5, 6 places), washers (8, 12 places) and nuts (10, 6 places). Refer to SECTION C - C in Figure 4.
- v) Fill gaps around edge of fuel filter enclosure assembly (2) with sealant (21). Refer to SECTION C - C and NOTE 1 in Figure 4.
- w) If replacing P. Seal (14) around fuel filter enclosure (13) opening. Remove old P. Seal and clean surface. Install new P. Seal (14) along the edges of the fuel filter opening using adhesive (15). Refer to VIEW W in Figure 2.
- x) Reconnect existing tube assembly (14) to the inlet side of the fuel filter. Refer to SECTION B - B in Figure 4.

Transport Canada Accepted

AIRBUS HELICOPTERS CANADA LIMITED**8. REMOVAL AND REPLACEMENT (continued)****B. REPLACEMENT****2) HOSES (Refer to Figures 3, 4, 5 and 6)**

- a) If inlet hose is being replaced, connect hose fitting to fuel tank connection. Refer to SECTION E - E in Figure 5.
- b) Route inlet hose assembly (18) from the fuel tank through the existing grommet in the transmission deck and temporarily connect to tube assembly (14, shown in Figure 4). Refer to SECTION A - A in Figure 3.
- c) Orient hose ends to ensure an upward slope from fuel tank to fuel filter. Ensure inlet hose distance from air conditioning line is 5 mm MIN. Refer to DETAIL V and NOTE 2 in Figure 4.
- d) Once hose is adjusted secure hose to aircraft frame under the transmission deck using clamp (15), screw (7), washers (8, 2 places), spacer (13) and nut (10). Refer to NOTE 2 and SECTION C - C in Figure 4.
- e) Pull diaphragm extension out of fuel tank and torque nuts of inlet hose assembly (2). Safety inlet hose assembly (2) to fuel tank connection with lockwire (3). Position the two pieces of collar (4) to center the pipe and secure with hose clamp (5) on groove of collar (4). Refer to Section E - E and NOTE 2 in Figure 5.

NOTE: Ensure lockwire (3) does not touch collar (4).
Refer to NOTE 2 in Figure 5.

- f) Reposition diaphragm extension into the fuel tank and secure rubber elbow (1) to fuel tank flange using hose clamp (5). Refer to SECTION E - E in Figure 5.
- g) Disconnect inlet hose assembly (18) from tube assembly (14, shown in Figure 4). Safety tube assembly to inlet adapter fitting (6) with lockwire (4). Refer to SECTION A - A in Figure 3.
- h) Slide inlet hose adapter (16) and gasket (4) over tube assembly (14) and secure to fuel filter enclosure (2) using screws (5, 4 places), washers (8, 4 places) and nuts (10, 4 places). Refer to SECTION B - B in Figure 4.
- i) Slide elbow (14) over tube assembly (8) and secure to inlet hose adapter (10, shown in Figure 4) and secure using clamp (5). Refer to SECTION A - A in Figure 3.
- j) Reconnect inlet hose to tube assembly (14). Safety using lockwire (17). Refer to SECTION B - B in Figure 4.
- k) Pull elbow (14, shown in Figure 3) over tube assembly (14) and secure to inlet hose using clamp (15). Refer to SECTION B - B in Figure 4.
- l) Reconnect outlet hose assembly (19) to outlet adapter fitting (21) and safety using lockwire (4). Refer to Figure 3.
- m) Connect opposite end of outlet hose assembly (19) to the existing fuel shut off valve and safety using lockwire (4). Secure rubber hose end to fuel shut off using hose clamp (5).
- n) Once hose is adjusted ensuring a constant upward slope from fuel filter (1) to the fuel shut off valve, secure using clamp (22), washers (11, 2 places), screw (9) and nut (12). Refer to NOTE 1 and SECTION A - A in Figure 3.
- o) Secure bonding jumper (18) to deck using screw (6), washers (8, 2 places), washer (9) and nut (11) and nut (12). Tightening torque min. 3.0 to max. 4.0 Nm. Refer to SECTION B - B in Figure 4.

NOTE For electrical bonding of bonding jumper (18), contact area to be cleaned of all non- conductive coating 2- 4mm beyond contact area. Cover electrical bondings with protective coating (22) to overlap screw, washers, nuts and bonding jumper by approximately 3mm. Refer to NOTE 3 and SECTION B - B in Figure 4.

Transport Canada Accepted

AIRBUS HELICOPTERS CANADA LIMITED**8. REMOVAL AND REPLACEMENT (continued)****B. REPLACEMENT**

- p) If replacing drain hose (7), connect drain hose to drain sump assembly (5) and secure using clamp (6). Wrap sleeve (22) around drain sump funnel and secure with clamp (6). Refer to NOTE 4 and SECTION F - F in Figure 6.
- q) Route drain hose behind X frame and secure to existing tyrap bases (10) using tyrap (9). Refer to VIEW LOOKING OUTBOARD and SECTION F - F in Figure 6.
- r) Run drain hose (7) through existing grommet (8) in belly panel and trim hose as required. Refer to VIEW S in Figure 6.
- s) Attach new tag (15) on replaced drain hose (7) and reposition the FWD and aft panel in the cargo compartment and secure using clips (15 places). Refer to SECTION A - A in Figure 6.

3) FUEL FILTER HARNESSSES

(Refer to Figures 2, 3 and Figure 9 Airframe- Mounted Fuel Filter, Wiring Diagram)

- a) Refer to Airframe- Mounted Fuel Filter, Wiring Diagram in this document to replace damaged components or wiring. Refer to Figure 9.
- b) Install in accordance with AC43.13- 13- 1B, Chapter 11.
- c) If connecting harness assembly (1QWA) (13) attach connector to the top of fuel filter (1). Refer to Figure 3.
- d) Secure opposite end of harness assembly (1QWa) (13) to inboard side of fuel filter enclosure assembly (13, Figure 2) and secure using nut plate (15), gasket (16), screws (8, 4 places) and washers (10, 4 places). Refer to Figure 3
- e) Reconnect harness assembly (3) to back side of the fuel filter enclosure assembly. Refer to VIEW W in Figure 2.
- f) If installing harness assembly (2Qwa) (3) connect to back of fuel filter enclosure (13) and at transmission deck location. Refer to Figure 3.
- g) If installing harness assembly (3QWA) (4), secure harness underneath the transmission deck using nut plate (15), gasket (16) screws (8, 4 places) and washers (10, 4 places). Reconnect harness assembly (2Qwa) (3) to the transmission deck.
- h) Run harness assembly (3QWA) (4) under transmission deck and secure to existing flat clamp support and cable support using tyrap (9). Refer VIEW LOOKING OUTBOARD FROM FUEL TANK SIDE in Figure 6.
- i) Run harness assembly (4) along LHS cargo compartment under the transmission deck, then under the cabin floor following existing harness along the LHS of the helicopter. Refer to Figure 2.
- j) Locate ground wire (4QW- N) picking up on existing hole in aft frame and secure using screw (6), washers (8, 2 places), washer (9), nut (10) and nut (11). Refer to DETAIL X and NOTE 1 in Figure 2.

NOTE For electrical bonding of ground wire (4QW- N) to the transmission deck, contact area to be cleaned of all non- conductive coating 2- 4 mm beyond contact area. Cover electrical bondings with protective coating (17) to overlap screw, washers, and nuts by approximately 3mm. Refer to NOTE 1 in Figure 2.

- k) Locate 4ALP.P1 in the Caution and Warning Panel and connect wire (QW- 901C22) from harness (3QWA) into 4ALP.P1 pin 64.
- l) Use an ohm meter, point to point check all connections to ensure correct installation.

Transport Canada Accepted

AIRBUS HELICOPTERS CANADA LIMITED
8. REMOVAL AND REPLACEMENT (continued)
B. REPLACEMENT

- 1) Refuel the helicopter in accordance with Filling/Draining- Servicing, EC 130 T2, AMM, Chapter 12- 10- 00, 3- 2.
- 2) Check After Maintenance Work - Fuel System, Inspection/Check in accordance with EC 130 T2, AMM, Chapter 28- 00- 01, 6- 2.
- 3) Comply with General Safety Instructions - Electrical Power Supply, EC 130 T2, AMM, Chapter 24- 00- 00, 3- 1.
- 4) Close all areas opened for service in the PRELIMINARIES paragraph of this section.
- 5) Re- connect battery, EC 130 T2, AMM, Chapter 24- 33- 00, 4- 1.
- 6) Re- connect external power unit, EC 130 T2, AMM, Chapter 24- 00- 00, 2- 1.
- 7) Reference functional test - DC Power Supply System in accordance with EC 130 T2, AMM, Chapter 24- 30- 00, 5- 1.
- 8) Press the “Press to Test Button” located on the inboard side of the Fuel Filter. The “AF F FILT” annunciator lamp must illuminate.
- 9) As per Section 4.1.4. Operational Test - Fuel Filter Switch and Bypass Valve of this document, check for the correct operation of the fuel filter bypass function.
- 10) Install the fuel filter element (P/N 1743645- 01) and perform a leak check on runup.
- 11) Perform operational check of all systems that were serviced in accordance with the EC 130 T2 procedures and the system’s installation/operation manual.
- 12) Secure the fuel filter cover assembly over the enclosure and lock into place.
- 13) Close the LHS MGB engine cowling.

9. WEIGHT AND BALANCE DATA
A. Removed Items

| DESCRIPTION | WEIGHT | | ARM | | MOMENT | |
|-----------------------------|--------|-------|------|-------|--------|--------|
| | kg | lbs | m | in | kg m | lb in |
| Transmission Deck Cut- outs | - 0.08 | - 0.2 | 3.42 | 135.0 | - 0.27 | - 27.0 |
| Total | - 0.08 | - 0.2 | 3.42 | 135.0 | - 0.27 | - 27.0 |

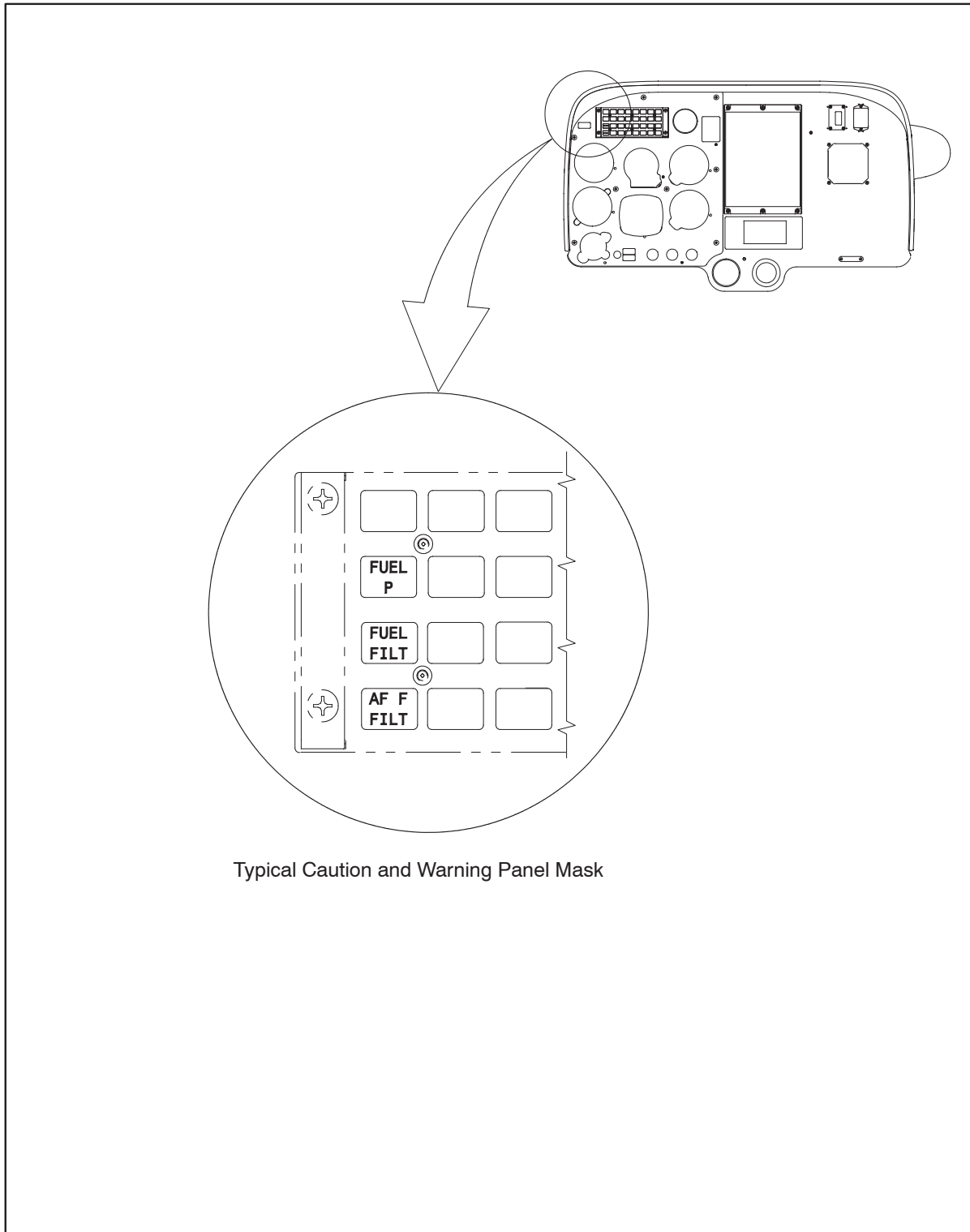
D. Added Items

| DESCRIPTION | WEIGHT | | ARM | | MOMENT | |
|-----------------------|--------|------|------|-------|--------|--------|
| | kg | lbs | m | in | kg m | lb in |
| Detachable Provisions | 1.73 | 3.8 | 3.43 | 135.0 | 5.93 | 513.0 |
| Fixed Provisions | 3.62 | 8.0 | 3.44 | 135.4 | 12.45 | 1083.2 |
| Total | 5.35 | 11.8 | 3.44 | 135.3 | 18.39 | 1596.2 |

Transport Canada Accepted

AIRBUS HELICOPTERS CANADA LIMITED

10. PLACARDS AND MARKINGS



Typical Caution and Warning Panel Mask

Figure 10 Overlay Mask on Caution and Warning Panel

Transport Canada Accepted

10. PLACARDS AND MARKINGS

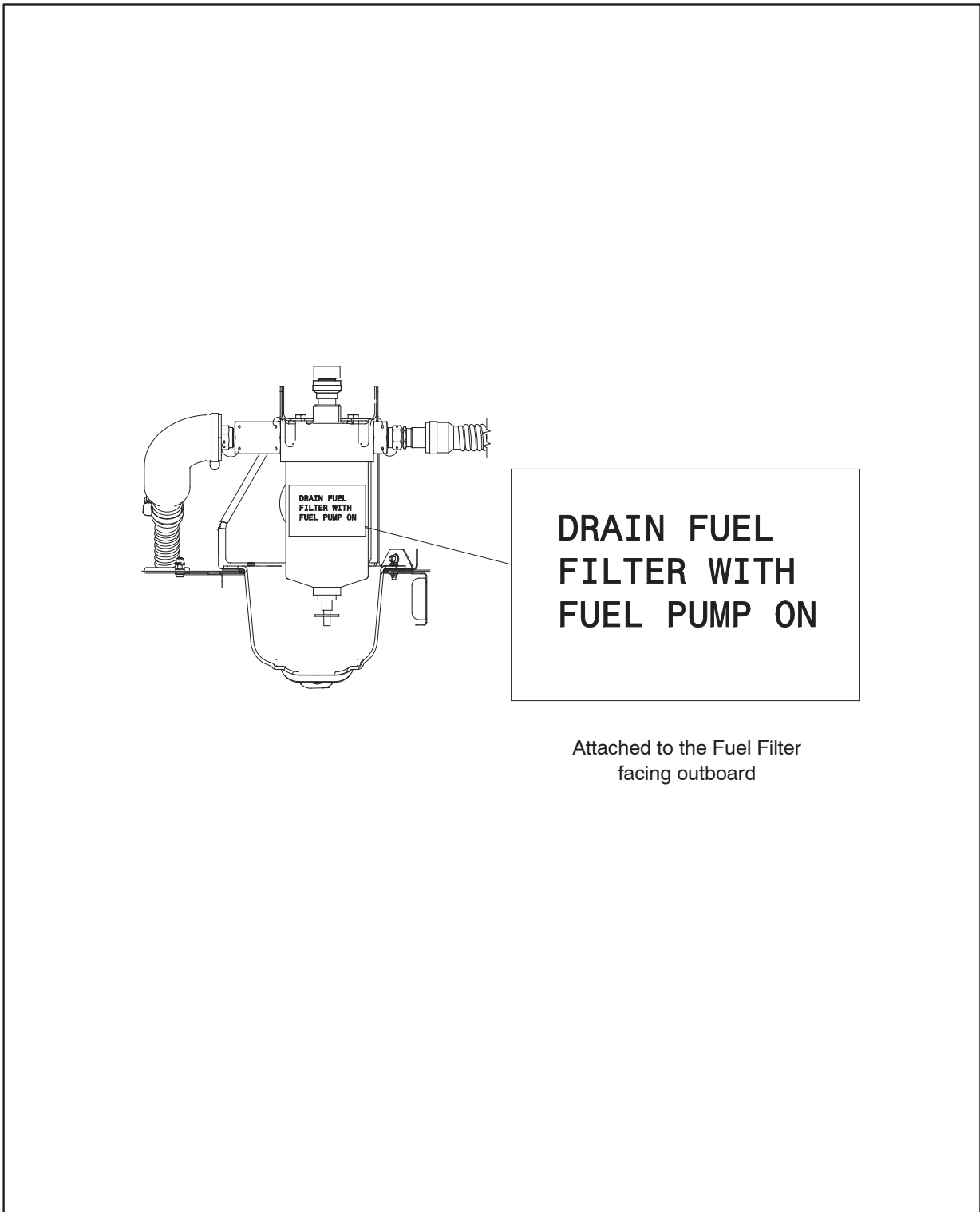


Figure 11 Typical label location on the Fuel Filter

Transport Canada Accepted

AIRBUS HELICOPTERS CANADA LIMITED

10. PLACARDS AND MARKINGS

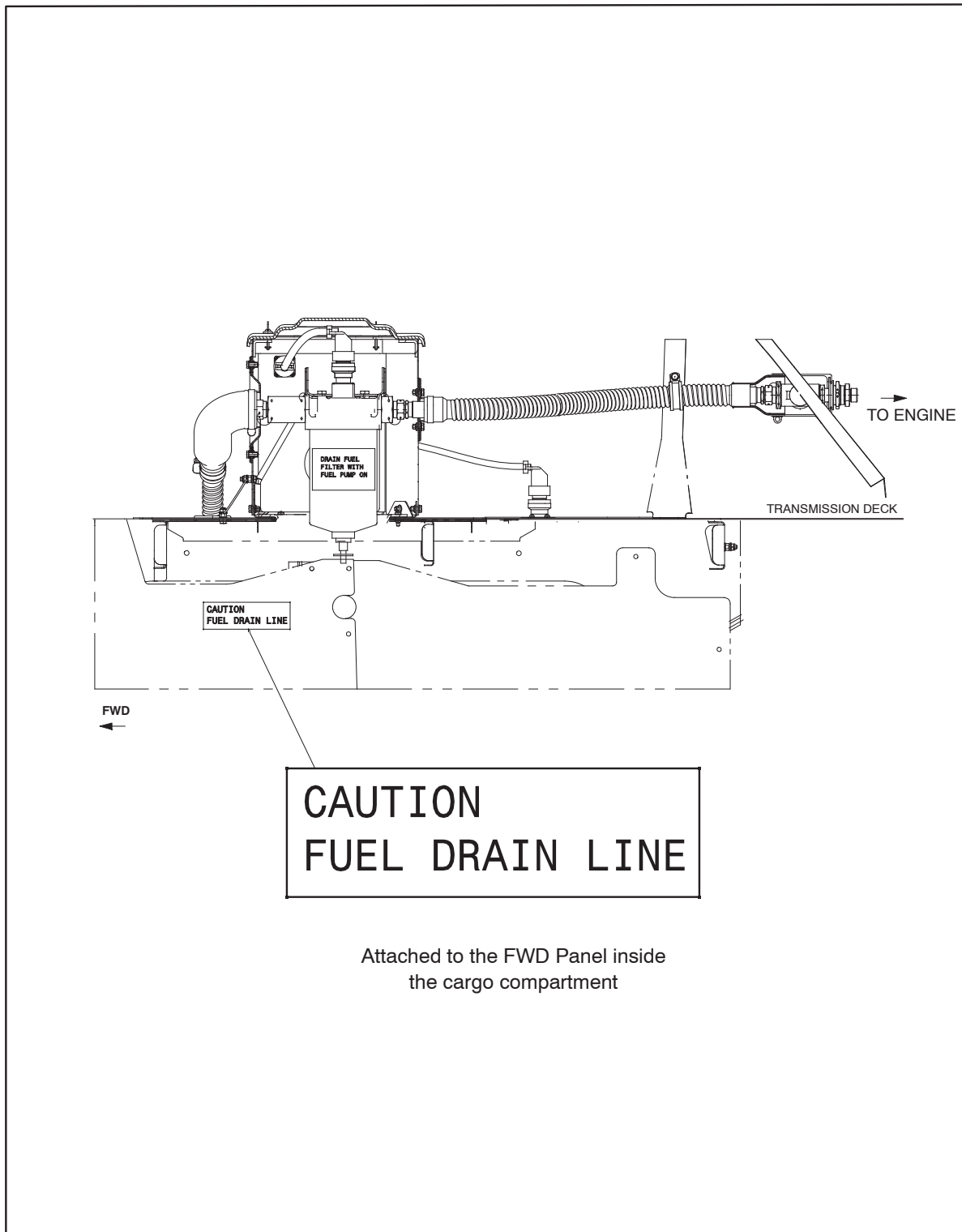
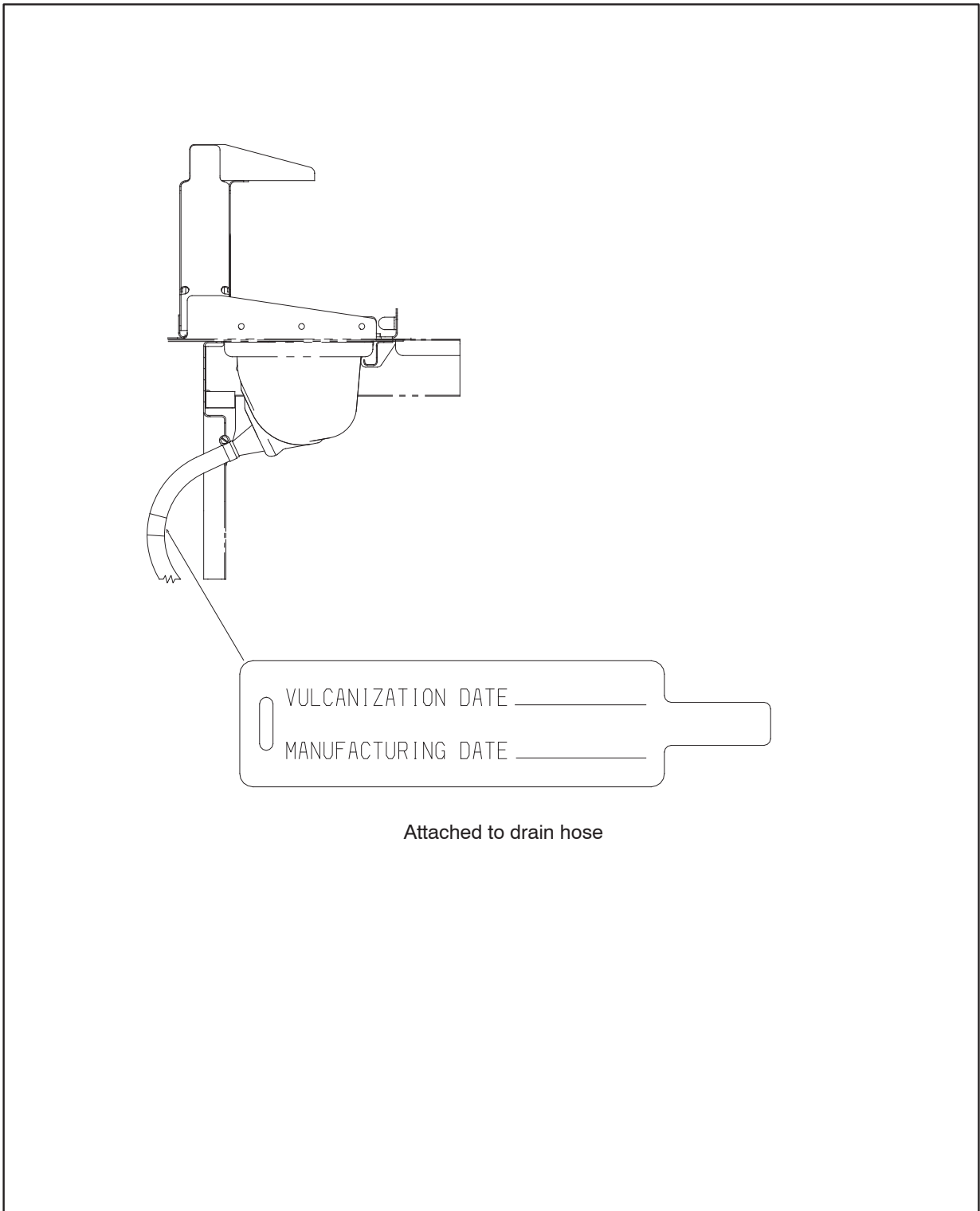


Figure 12 Typical label location inside cargo compartment

Transport Canada Accepted

10. PLACARDS AND MARKINGS



Attached to drain hose

Figure 13 Typical location for identification tag on hose

Transport Canada Accepted

10. PLACARDS AND MARKINGS

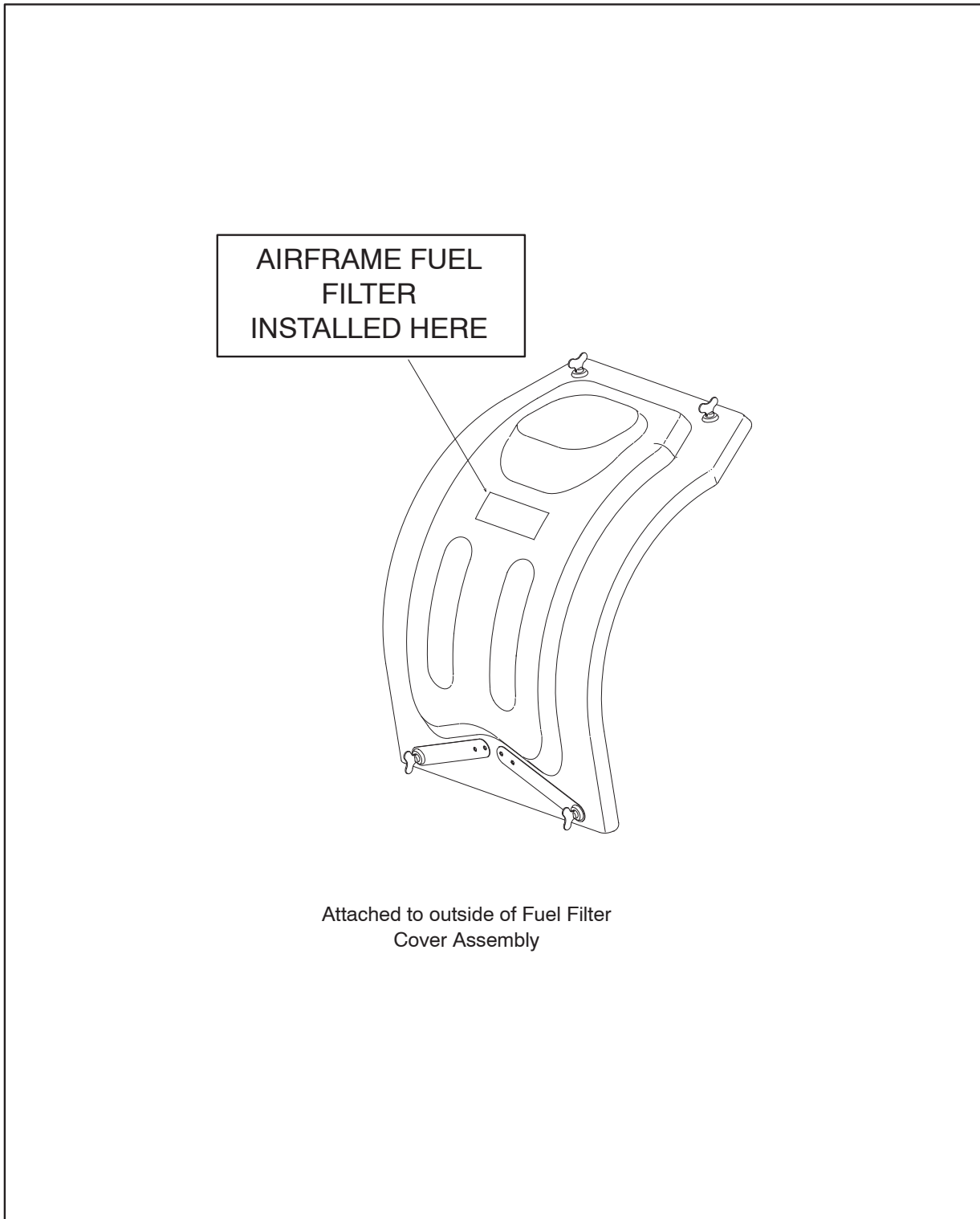


Figure 14 Typical label location on fuel filter cover

Transport Canada Accepted



Operating Instructions
Fuel Filter Assembly
Part Number: 1743640-01

Contents:

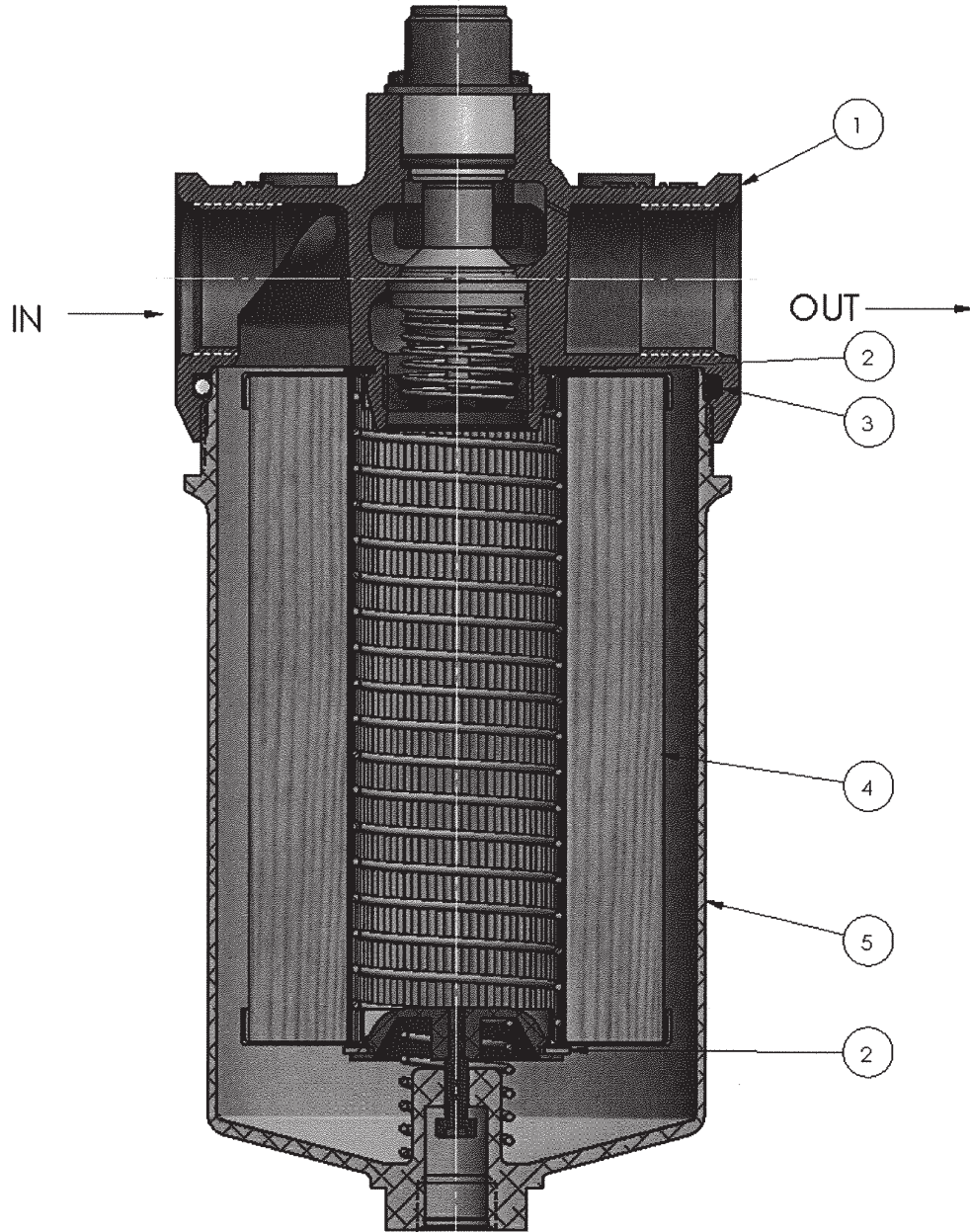
Operating & Design Specifications:

Parker Aerospace Filtration Div.

Purolator Facet Inc.
8439 Triad Drive
Greensboro, NC 27409-9621
(336) 668-4444, Fax (336) 668-4452

February 6, 2020

Fuel Filter Assembly Part No. 1743640-01



February 6, 2020

Replacement Parts for Filter Assembly Part No. 1743640-01

| Item No. | Qty. Req. | Part No. | Description: |
|----------|-----------|------------|------------------|
| 1. | 1 | 2177100-30 | Head Assembly |
| 2. | 2 | 1743629-01 | Seal |
| 3. | 1 | 034921-01 | O-Ring |
| 4. | 1 | 1743645-01 | Element Assembly |
| 5. | 1 | 1745011 | Bowl Assembly |

NOTE: Purolator replacement element kit part no. 1743645-02 consists of items 2, 3 & 4

Operating Instructions:

Preflight Inspection Procedure Change:

1. Follow aircraft manufacturers recommended preflight instructions.

Scheduled Maintenance:

1. Fuel Filter Element Change:
 - A. Replace element at the intervals specified by the aircraft manufacturer.
 - B. Remove lockwire and unscrew filter bowl.
 - C. Remove used element.
 - D. Remove O-Ring and flat seals from filter head and inside of bottom of filter bowl.
 - E. Install new seals P/N: 1743629-01 on the nipple of the filter head and retainer in the filter bowl.
 - F. Install new filter element p/n: 1743645-01.
 - G. Install new O-Ring P/N: 034921-01 in the filter head.
 - H. Re-install filter bowl and torque to 130 ±20 inch pounds.
 - I. Secure filter head to filter bowl with lock wire.

**Purolator Fuel Filter Assembly
Part Number 1743640-01**

Design Specifications:

1. Filtration Rating: 10 Micometres Nominal
2. Fluid: Mil-T 5624 Gr. JP-4, JP-5, ASTM-D-1655 Type A, A1or B.
3. Temperature Range: -65°F to +160°F.
4. Bypass valve cracking Pressure: 3.75 PSID.
5. Microdelta® Differential Pressure Switch actuates at 0.875 PSID
6. Pressures: Operating: 60 PSI
 Proof: 90 PSI
 Burst: 180 PSI
7. Rated Flow: 0.5 GPM
8. Weight: 1.75 lbs. Max.