



AIRBUS HELICOPTERS CANADA LIMITED

SUBJECT:

**INSTRUCTIONS FOR CONTINUED AIRWORTHINESS FOR
SINGLE OR DUAL VHF-FM RADIO INSTALLATION
(P/Ns H430I0307001 AND H430I0307002)**

APPLICABILITY:

Aircraft with the subject modification embodied in accordance with
TCCA STC No. SH24-30 or any relevant foreign approvals.

The information and data contained in this document supersede or supplement that contained in the basic AS 350 Maintenance documentation in those areas listed herein. For procedures not contained in this document refer to the Approved Maintenance Manual or any other accepted supplemental Maintenance Manual Supplemental.

This MMS is to be used in conjunction with the Approved AS 350 Maintenance Manual for the aircraft with the subject design change incorporated.

The information and data contained in this document supersede or supplement that contained in the basic AS 350 Maintenance documentation in those areas listed herein. For procedures not contained in this document refer to the Approved Maintenance Manual or any other Supplemental Instructions for Continued Airworthiness.

This Supplemental ICA is to be used in conjunction with the Approved AS 350 Maintenance Manual for the aircraft with the subject design change incorporated.

The Airworthiness Limitations section is FAA approved and specifies maintenance required under 14 CFR Secs. 43.16 and 91.403 unless an alternative program has been FAA approved.

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CHECKED BY:			AHCA QUALITY ASSURANCE
REV. 0 RELEASED BY			AHCA ENGINEERING
REV. 0 ACCEPTED (Civil A/W Authority):	<small>(As per ICA Compliance Check Sheet)</small>		TCCA

RECORD OF REVISION

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 28	Original issue.	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).

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1 GENERAL

- A. The Single or Dual VHF-FM Radio Installation provides a means of a secondary radio communication. This installation offers single FM 1 or dual FM 1/FM 2 VHF-FM Radio(s) operation. Depending on the configuration, single or dual transceivers are positioned in the instrument panel or center console and are accessible to the pilot and co-pilot. There are three locations available to install the radio transceivers. The single FM 1 radio can utilize any of the three available locations. The dual FM 1/FM 2 can only utilize two of the three locations. Refer to Figure 1.

The Single or Dual VHF-FM Radio Installation consists of the following options:

RADIO INSTALLATION	PART NUMBER
Single VHF-FM Radio Installation, Configuration 1	H430I0307001
Dual VHF-FM Radio Installation, Configuration 2	H430I0307002

Typical radios available to install with this STC:

PART NUMBER	DESCRIPTION
081252-1-10	FM Transceiver, TDFM-136B/G
081252-1-11	FM Transceiver, TDFM-136B/G
081252-3-10	FM Transceiver, TDFM-136BNV
081252-3-11	FM Transceiver, TDFM-136BNV
921012-1 B	FM Transceiver, TFM-138B/G
MTP136D-000GN	FM Transceiver, MTP136D
NPX136D-070	FM Transceiver, NPX136D
NPX138-070	FM Transceiver, NPX138
NPX138-770	FM Transceiver, NPX138
NPX138N-070	FM Transceiver, NPX138N
NPX138N-770	FM Transceiver, NPX138N

NOTE: The FM Transceivers are not provided with this STC.

The VHF-FM Radio circuit breakers are located in the 30 alpha Circuit Breaker Box located on the RH side of the Instrument Panel Pedestal. Refer to Figure 1. Antenna for FM 1 radio is installed on the tail boom. Refer to Figure 4. Antenna for FM 2 radio is installed on the belly panel. Refer to Figure 5.

Programming ports are provided for the NPX series radios, located under the LH side of the Instrument Panel. Refer to Figure 2.

Two High Pass Filters are located under the cabin floor, RH side transponder shelf between the transceiver and its antenna. Refer to Figure 3.

The Single or Dual VHF-FM Radio is installed in accordance with drawings specified in the Master Drawing List H430I0307505.

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

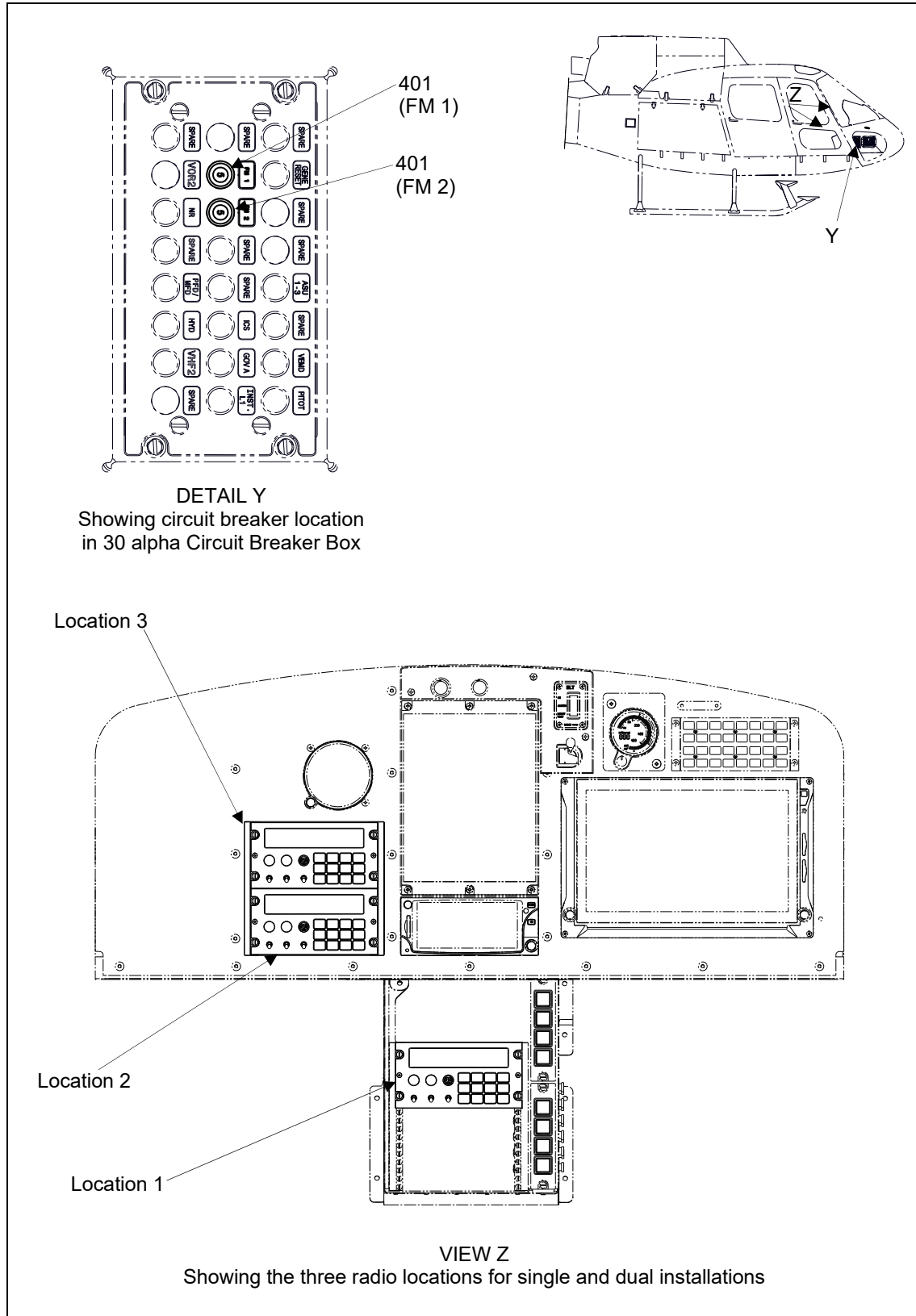


Figure 1 General Layout, Single or Dual VHF-FM Radio Installation

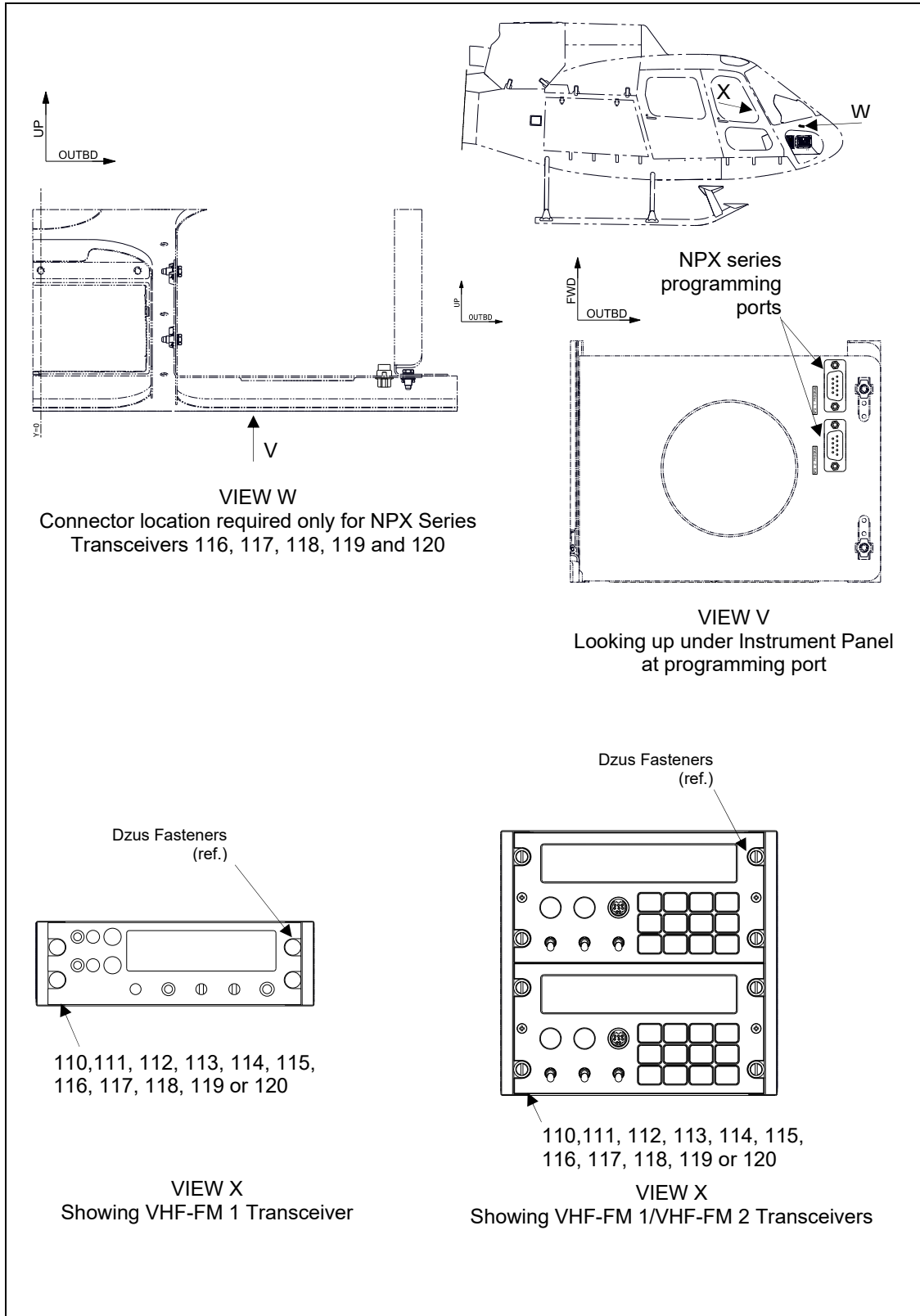


Figure 2 VHF-FM 1/VHF-FM 2 Transceiver Details

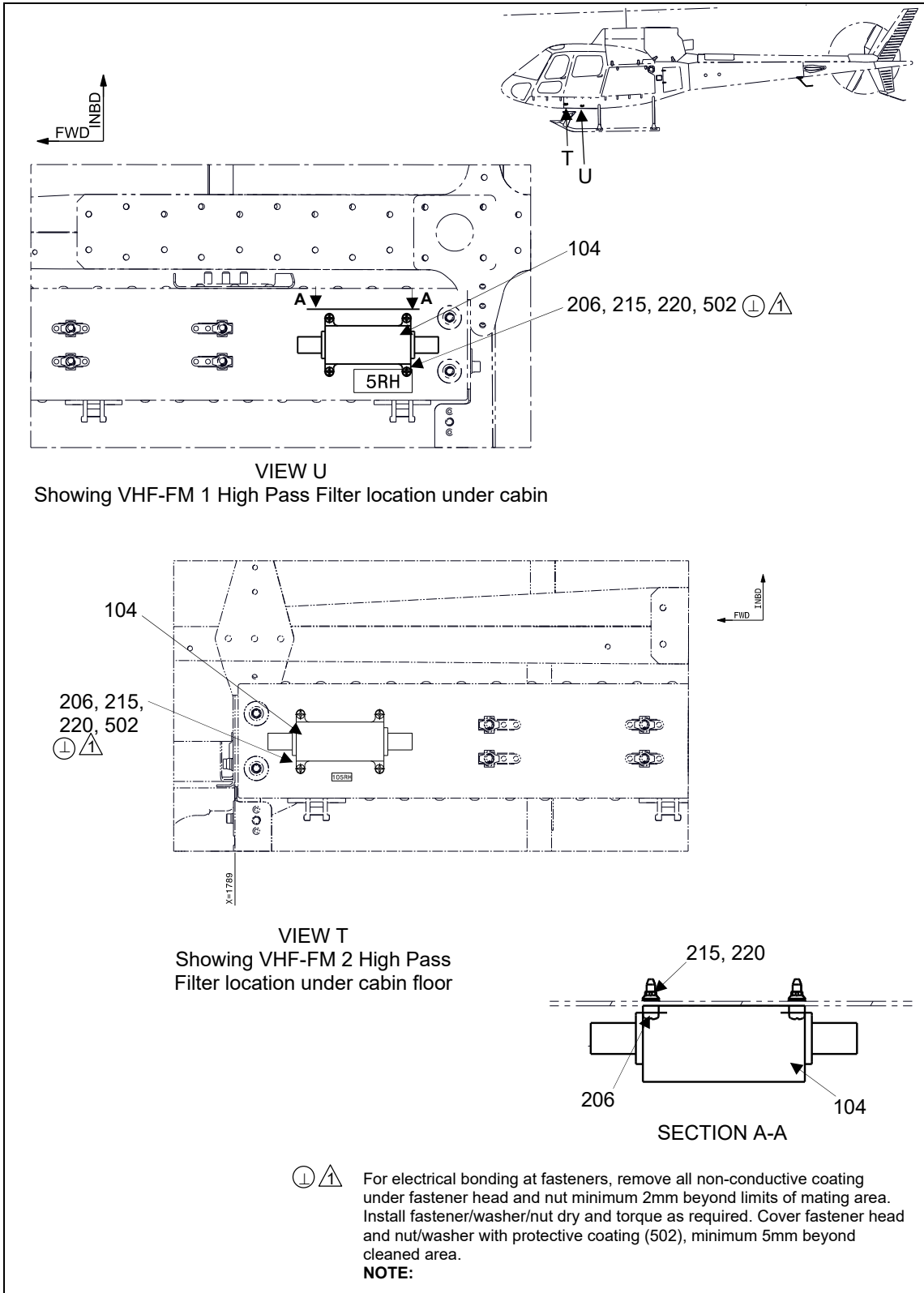


Figure 3 VHF-FM 1/VHF-FM 2 High Pass Filter Details

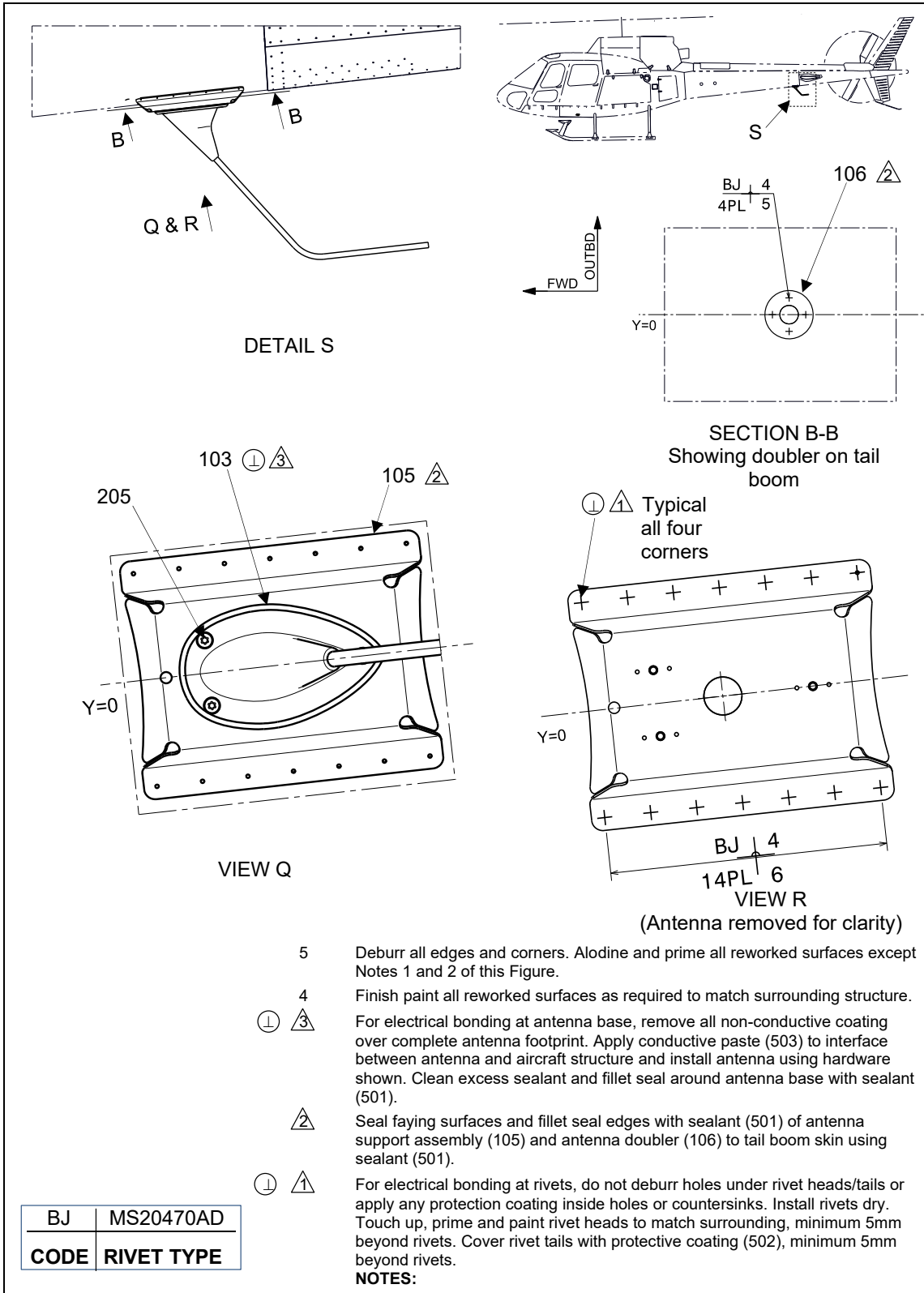


Figure 4 VHF-FM 1 Antenna

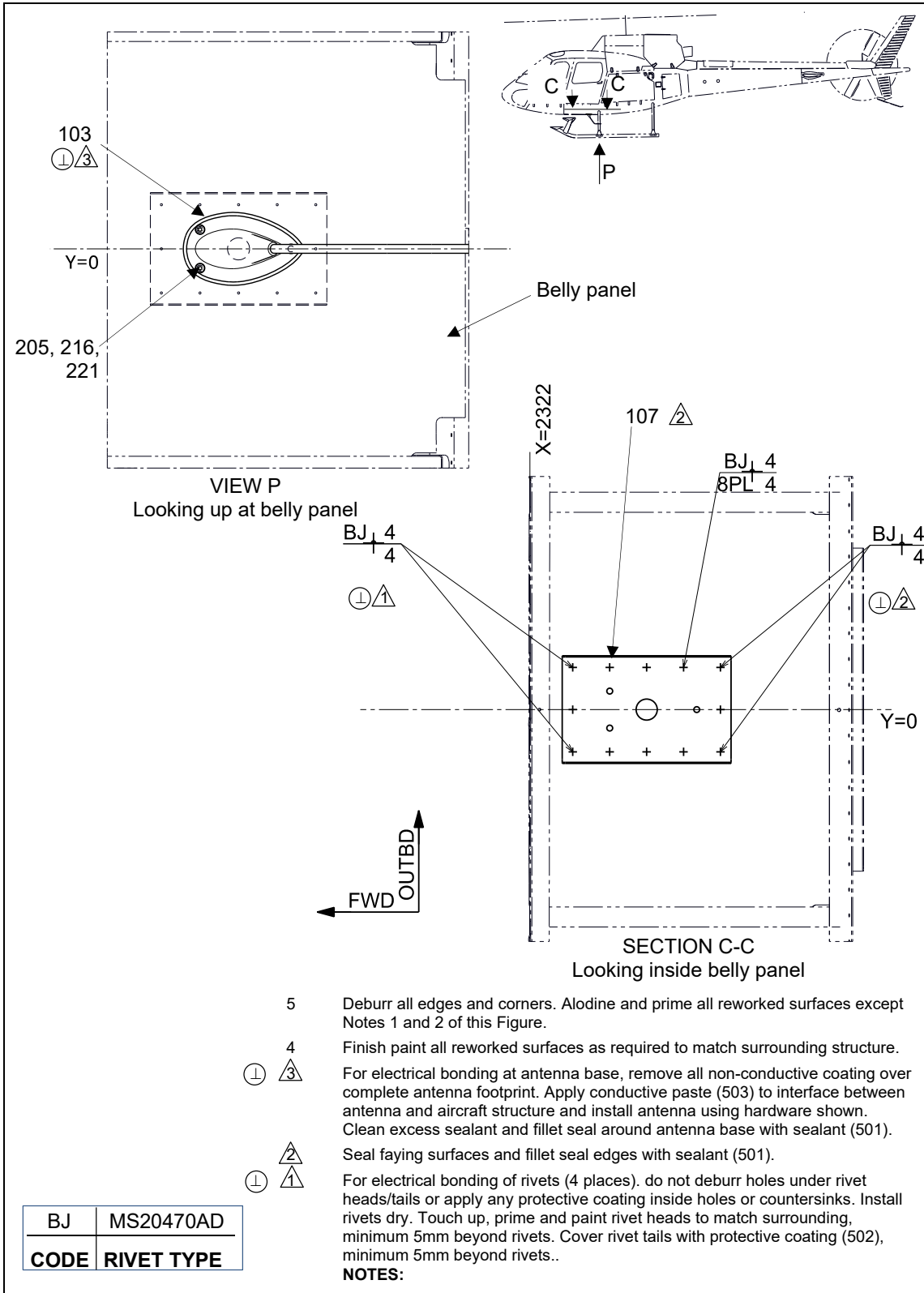


Figure 5 VHF-FM 2 Antenna

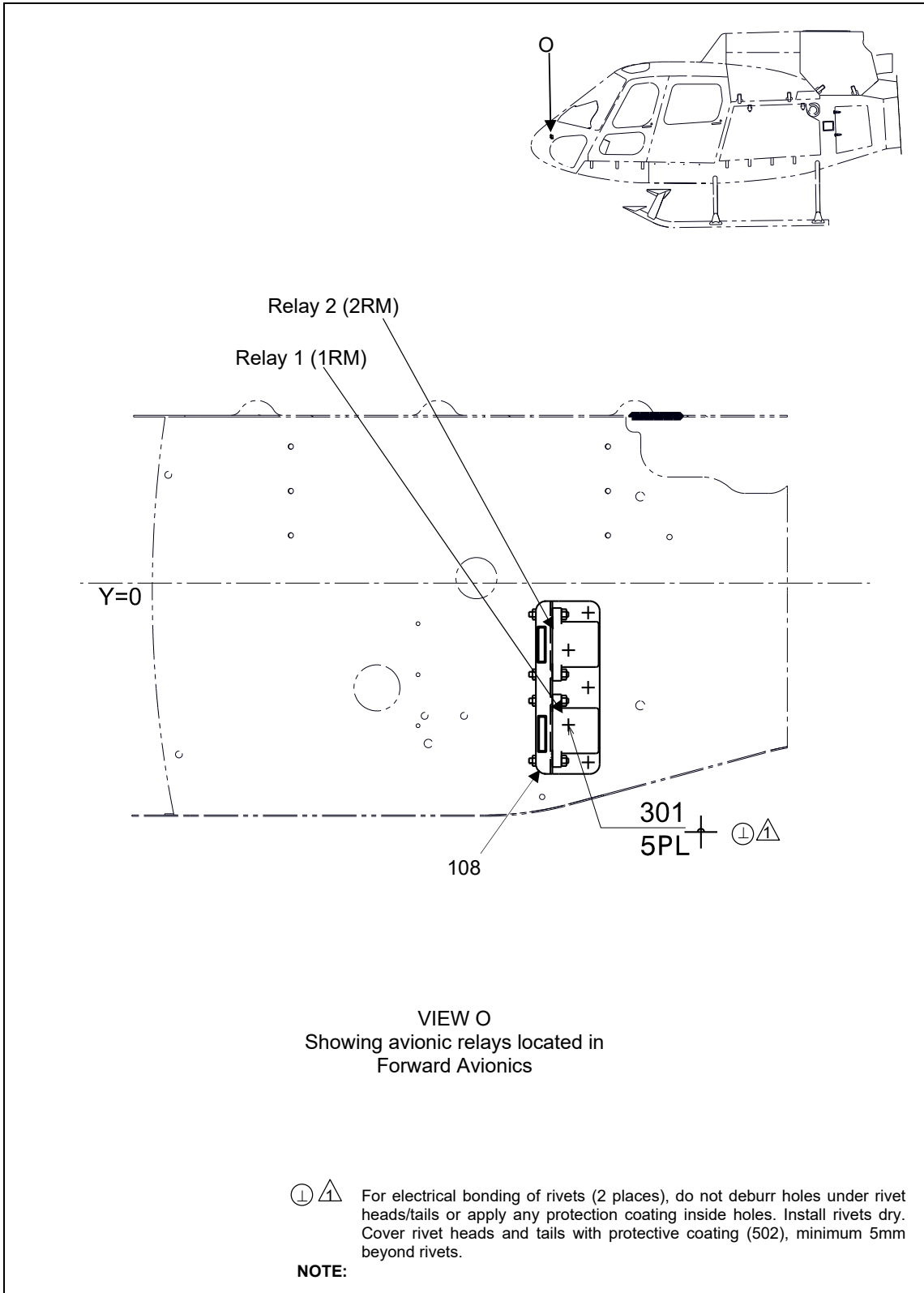


Figure 6 Avionic Relays

Legend for Figures 1 to 5		
ITEM	PART NUMBER	DESCRIPTION
103	CI 292-3	VHF-FM Antenna
104	133956-1	136 MHz High Pass Filter
105	H430I0307201	Assembly, Antenna Support
106	H430I0307301	Doubler
107	H430I0307302	Doubler
108	H240I0307300	Relay Support
110	MTP136D-000GN	FM Transceiver, MTP136D
111	081252-1-10	FM Transceiver, TDFM-136B/G
112	081252-1-11	FM Transceiver, TDFM-136B/G
113	081252-3-10	FM Transceiver, TDFM-136BNV
114	081252-3-11	FM Transceiver, TDFM-136BNV
115	921012-1 B	FM Transceiver, TFM-138B/G
116	NPX136D-070	FM Transceiver, NPX136D
117	NPX138-070	FM Transceiver, NPX138
118	NPX138-770	FM Transceiver, NPX138
119	NPX138N-070	FM Transceiver, NPX138N
120	NPX138N-770	FM Transceiver, NPX138N
205	A0086TK040014X	Screws
206	22273CE030010	Screws
215	23111AG030LE	Washers
216	23311AG040LE	Washers
220	ASN52320BH030N	Nuts
221	ASN52320BH040N	Nuts
301	CR3213-4-3	Blind Rivets
401	4120-V110-5A	Circuit Breaker
or		
401	4120-V110-P1M1-Z0S0ZN-5A	Circuit Breaker
501	HS9014-129	Sealant
502	Celomer 4125/6407	Protective Coating
503	ECS 2241.20	Conductive Paste

Table 1 Item, Part Number and Description List

C. REFERENCES

DOCUMENT	DOCUMENT TITLE
AMM	Aircraft Maintenance Manual
ICA	Instructions for Continued Airworthiness
Manual Number 08RE398	Technisonic Industries Limited, TDFM-136B VHF-FM Digital Airborne Transceiver, Installation Instructions, Rev. B, Issue 5 dated March 2023 (or latest revision)
Manual Number 97RE221	Technisonic Industries Limited, TFM-138B VHF/FM Airborne Transceiver, Installation and Operating Instructions, Rev. A, Issue 7 dated August 2010 (or latest revision)
MTC (all aircraft)	Standard Practices Manual
MTP136D-000GN-815-0	Anodyne Electronics Manufacturing Corporation, MTP136D-000GN-815-0, Mission Transceiver, Installation Manual, Rev. 1.00, April 22, 2024 (or latest revision)
SM41	NPX138N Series Panel Mount FM Transceiver Installation and Operation Manual, Issue 4.01, COBHAM Published on August 1, 2012 (or latest revision)
SM68	NPX136D Series VHF P25 Panel Mount Transceiver, Issue 4.01, dated Aug. 12, 2009 (or latest revision)

D. ABBREVIATION & DEFINITIONS

ABBREVIATION	DEFINITIONS
Acc'd	Accepted
AHCA	Airbus Helicopters Canada Limited
App'd	Approved
ATP	Acceptance Test Procedure
A/W	Airworthiness
CAR	Canadian Aviation Regulations
DAPM	Design Approval Procedure Manual
FAA	Federal Aviation Administration
FM	Frequency Modulation
OEM	Original Equipment Manufacturer
P/N(s)	Part Number(s)
ref.	reference
Rev.	Revision
RH	Right Hand
STC	Supplemental Type Certificate
TCCA	Transport Canada
VHF	Very High Frequency
VSWR	Voltage Standing Wave Ratio

E. UNITS OF MEASURE

ABBREVIATION/SYMBOL	UNIT OF MEASUREMENT
D	Days
FH	Flight Hours
hrs	hours
in	inches
kg	kilograms
lb	pounds
m	meters
mm	millimeters
M	Months

AIRBUS

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2 AIRWORTHINESS LIMITATIONS

Canadian Approval

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

FAA Approval

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

No Airworthiness Limitations associated with this installation.



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3 CONTROL AND OPERATION

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

For information on operating the MTP136D FM Transceiver, refer to the model specific "Anodyne Electronics Manufacturing Corporation" Installation Manual, Number MTP136D-000GN-815-0. This manual is available by contacting the Anodyne Electronics Manufacturing Corporation at www.aem-corp.com.

For information on operating the NPX136D Series FM Transceiver, refer to the model specific "Northern Airborne Technology Limited" Installation and Operation Manual, Number SM68. This manual is available by contacting Northern Airborne Technologies at www.northernairborne.ca.

For information on operating the NPX138N Series FM Transceiver, refer to the model specific "Northern Airborne Technology Limited" Installation and Operation Manual, Number SM41. This manual is available by contacting Northern Airborne Technologies at www.northernairborne.ca.

For information on operating the TFM-138B Series FM Transceiver, refer to the model specific "Technisonic Industries Limited" Installation and Operating Instruction, Number 97RE221. This manual is available by contacting Technisonic Industries Limited at www.til.ca.

For information on operating the TDFM-136B Series FM Transceiver, refer to the model specific "Technisonic Industries Limited" Installation Instructions Manual, Number 08RE398. This manual is available by contacting Technisonic Industries Limited at www.til.ca.

4 INSPECTION SCHEDULE AND MAINTENANCE ACTION

Periodic maintenance is not required for the Anodyne Electronics Manufacturing Corporation MTP136D-000GN-815-0, is "on condition" only. This manual is available by contacting Anodyne Electronics Manufacturing Corporation at www.aem-corp.com.

Periodic maintenance is not required for the Northern Airborne Technology Limited. NPX136D, is "on condition" only. This manual is available by contacting Northern Airborne Technologies at www.northernairborne.ca.

Periodic maintenance is not required for the Northern Airborne Technology Limited. NPX138N, is "on condition" only. This manual is available by contacting Northern Airborne Technologies at www.northernairborne.ca.

For information on operating the TDFM-136B, refer to the "Technisonic Industries Limited" Installation Instructions, Document Number 08RE398, Revision B, Issue 5, dated March 2023 (or latest version). This manual is available by contacting Technisonic Industries Limited at www.til.ca.

For information on operating the TFM-138B, refer to the "Technisonic Industries Limited" Installation and Operating Instructions, Document Number 97RE221, Rev. A, Issue 7, dated August 2010 (or latest version). This manual is available by contacting Technisonic Industries Limited at www.til.ca.

Refer to Section 8 if removing or replacing any parts.

NOTE: Use torque per MTC, Chapter 20-02-05-404, unless otherwise specified.



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4 INSPECTION SCHEDULE AND MAINTENANCE ACTION (continued)

4.1 INSPECTION SCHEDULE

4.1.1 Every 750 FH or 24 M (Margin: 75 FH or 73 D) to coincide with the 750 FH or 24 M helicopter inspection, whichever occurs first:)

ITEM	INSPECTION OR MAINTENANCE WORK	CORRECTIVE ACTION
A	- Check transceiver (110, 111, 112, 113, 114, 115, 116, 117, 118, 119 or 120), shown in Figure 2, for: a. security b. inspect external connector for damage, dust and corrosion. Check wiring at connectors for damage.	a. Secure as required. b. If corrosion is found, clean in accordance with MTC Chapter 20-90-02-104. If wiring or connectors are damaged, remove and replace in accordance with Section 8 of this ICA.
B	- Visually inspect antennas (103), shown in Figures 4 & 5, for: a. cracking b. condition of sealant c. corrosion	a. No cracking is allowed. If cracking is found, replace antenna or have antenna repaired by an authorized repair facility. b. Clean area and reapply antenna sealant (501). Refer to NOTE 3. Figures 4 and 5. c. No corrosion is allowed. Replace antenna or have antenna repaired by an authorized repair facility.
C	- Visually inspect antenna mounting hardware (204), in Figure 4 and (205, 216 and 221) shown in Figure 5 for: a. security b. corrosion	a. Secure as required. b. No corrosion is allowed. If corrosion is found, contact vendor for replacement hardware.
D	- Check mounting hardware (206, 215 and 220) of High Pass Filter (104), shown in Figure 3 for: a. security b. corrosion	a. Secure as required. b. No corrosion is allowed. Contact AHCA for replacement hardware

Table 2 Inspection Schedule and Maintenance Action
Every 750 FH or 24 M (Margin: 15 FH or 35 D) to coincide with the 750 FH or 24 M helicopter inspection, whichever occurs first

INSPECTION SCHEDULE AND MAINTENANCE ACTION (continued)

4.1 INSPECTION SCHEDULE

4.1.1 Every 750 FH or 24 M (Margin: 75 FH or 73 D) to coincide with the 750 FH or 24 M helicopter inspection, whichever occurs first:)

ITEM	INSPECTION OR MAINTENANCE WORK	CORRECTIVE ACTION
E	- Inspect circuit breakers (401) located in the RH side of the Instrument Panel Pedestal, shown in Figure 1 for: a. security	a. Secure as required.
F	- Check placards and markings (Refer to Section 10) for: a. legibility b. security	a. If placards have become illegible, contact AHCA for replacement parts. b. Secure, reattach placards as required.

Table 2 Inspection Schedule and Maintenance Action
 Every 750 FH or 24 M (Margin: 75 FH or 73 D) to coincide with the 750 FH or 24 M helicopter inspection, whichever occurs first

5 REPLACEMENT COMPONENTS AND REPAIR / OVERHAUL INFORMATION

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

For information contact Airbus Helicopter Customer Support Representatives:

Email: hcaresupport.canada@airbus.com

After Hours AOG Support: 1-800-267-4999

Visit our website at: www.airbushelicopters.ca

Return failed MTP136D Series FM Transceiver units, contact:

Anodyne Electronics Manufacturing Corporation

966 Crowley Avenue, Unit 100

Kelowna, BC, Canada

V1Y 0L1

Telephone: (888) 763-1088

www.aem-corp.com

Return failed NPX136D Series FM Transceiver or NPX138/NPX138N Series FM Transceiver units, contact:

Northern Airborne Technology Limited

1925 Kirschner Road

Kelowna, BC, Canada

V1Y 4N7

Telephone: (250) 763-2232

www.northernairborne.ca

Returned failed TDFM-136B Series FM Transceiver or TFM-138B Series FM Transceiver units, contact:

Technisonic Industries Limited

240 Traders Boulevard,

Mississauga, ON, Canada

L4Z 1W7

Telephone: (905) 890-2113

www.til.ca

6 TROUBLESHOOTING

For electrical system troubleshooting, refer to Wiring Diagrams included in the STC package or contact AHCA. Refer to Figure 7 for VHF-FM 1/ VHF-FM 2 Block Diagram.

If the MTP136D FM Transceiver, fails to perform to specifications, contact AEM Technical Support.

If the NPX136D Series FM Transceiver, fails to perform to specifications, it must be removed and returned to an authorized service facility.

If the NPX138/NPX138N Series FM Transceiver, fails to perform to specifications, it must be removed and returned to an authorized service facility.

If the TFM-138B Series FM Transceiver, fails to perform to specifications, it must be removed and returned to an authorized service facility.

If the TDFM-136B Series FM Transceiver, fails to perform to specifications, it must be removed and returned to an authorized service facility.

ITEM	INSPECTION OR MAINTENANCE WORK	PROBABLECAUSE	CORRECTIVE ACTION
1	No power to the Transceiver(s).	Attachment of circuit breaker (401)	Check circuit breaker (401) located on RH side of the Instrument Panel Pedestal shown in Figure 1.
2	Transceiver(s) not operating correctly	Faulty wire Faulty component	Inspect wiring and ring out harness in accordance with wiring diagrams. Isolate faulty components and replace in accordance with this ICA (Section 8).

Table 3 Troubleshooting Guide

For electrical system troubleshooting, refer to the wiring diagrams drawing list.

Wiring Diagram List for the Single or Dual VHF-FM Radio Installation:

Drawing No.	Title
H240I0307700	WD, Avionic Relays Integration
H240I0307701	WD, Avionic Relays Configuration
H430I0307701	WD, VHF-FM 1 Installation
H430I0307702	WD, VHF-FM 2 Installation

Table 4 Wiring Diagram Drawing List

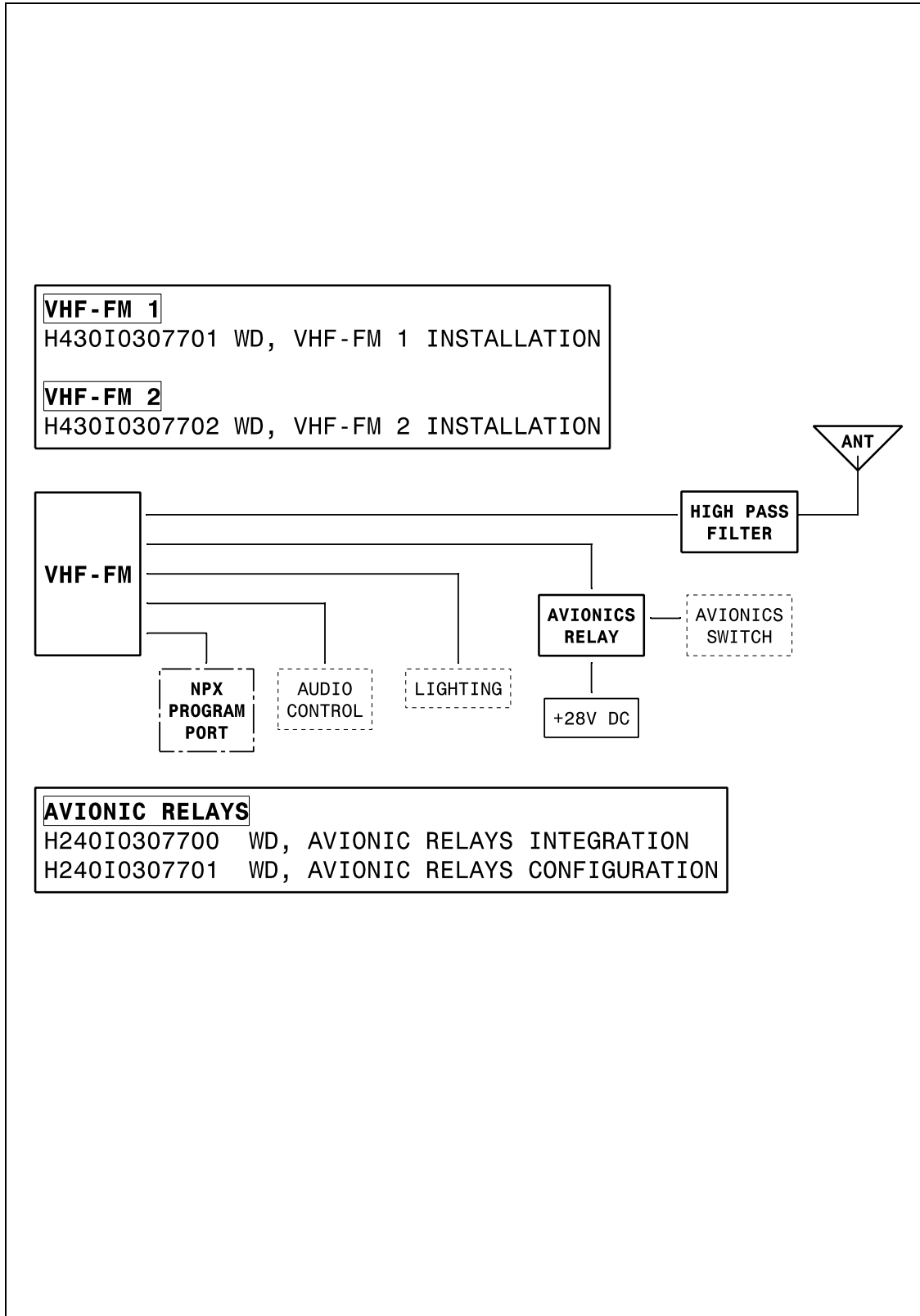


Figure 7 VHF-FM 1/VHF-FM 2 Block Diagram

7 SPECIAL TOOLING

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

8 REMOVAL AND REPLACEMENT

PRELIMINARIES

- Read General Safety Instructions - Electrical Power Supply System, refer to AS 350 AMM, Chapter 24-00-00, 3-1.
- Comply with Instructions Applicable during Maintenance, refer to MTC, Chapter 20-07-03-401.
- Disconnect the external power in accordance with AS 350 B2/B3 AMM, Chapter 24-00-00, 2-1 (if applicable).
- Disconnect the battery in accordance with AS 350 B2/B3 AMM, Chapter 24-33-00,4-1.
- Open and secure applicable circuit breakers / fuses before any servicing action.

A. REMOVAL

- 1) TRANSCEIVER (Typical) (Refer to Figure 2)
 - a) Release dzus fasteners (4 places).
 - b) Remove the wiring connector(s) and remove the unit from the center console.
- 2) HIGH PASS FILTER (Refer to Figure 3)
 - a) Remove belly panel.
 - b) Disconnect coax cables from high pass filter.
 - c) Remove screws (206, 4 places), washers (215, 4 places) and nuts (220, 4 places) securing the high pass filter to shelf. Retain hardware for reinstallation.
- 3) VHF-FM 1 ANTENNA (Refer to Figure 4)
 - a) Remove sealing compound from around the base of antenna (103).
 - b) Disconnect antenna coax cable and remove screws (205, 3 places) securing antenna (103). Retain hardware for reinstallation.
 - c) If removing antenna support assembly (105), remove sealant (501) and unrivet.
 - d) With antenna support assembly (105) removed, inspect doubler (106) for corrosion. If corrosion is found, remove sealant (501) and unrivet rivets (4 places) securing doubler (106).
- 4) VHF-FM 2 ANTENNA (Refer to Figure 5)
 - a) Remove sealing compound from around the base of antenna (103).
 - b) Disconnect coax cable and remove screws (205, 3 places), washers (216, 3 places) and nuts (221, 3 places) securing antenna (103). Retain hardware for reinstallation.



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REMOVAL AND REPLACEMENT (continued)

B. REPLACEMENT

NOTE: Use torque per MTC, Chapter 20-20-05-404, unless otherwise specified.

NOTE: Deburr all edges and corners. Alodine and prime all reworked surfaces unless stated otherwise.

General rivet replacement principles - MTC, Chapter 20-03-02-101

Assembly by screws and nuts - MTC, Chapter 20-02-05-404

Electrical Bonding - General refer to MTC, Chapter 20-02-07,101

Electrical bonding procedure - MTC, Chapter 20-02-07-401

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

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

1) TRANSCEIVER (Typical) (Refer to Figure 2)

NOTE: Prior to installation of any transceiver, refer to manufacturers Installation Manual.

a) Reconnect connector(s) and align unit with Instrument Panel or center console.

NOTE: If two NPX transceivers are installed, forward connector is for FM 1, aft connector is for FM 2 at programming port location. Refer to VIEW V.

b) Secure unit using dzus fasteners (4 places).

2) HIGH PASS FILTER (Refer to Figure 3)

a) Locate High Pass Filter (104) under the cabin floor. Refer to VIEW T and VIEW U.

b) Secure using screws (206, 4 places), washers (215, 4 places) and nuts (220, 4 places).

NOTE: For electrical bonding of fasteners, remove all non-conductive coating under fastener head and nut minimum 2mm beyond limits of mating area. Install fastener/washer/nut dry and torque as required. Cover fastener head, washer and nut/washer with protective coating (502) minimum 5mm beyond cleaned area. Refer to NOTE 1.

c) Reconnect coax cables to filter.

3) VHF-FM 1 ANTENNA (Refer to Figure 4)

a) If replacing doubler (106), apply sealant (501) to faying surface between doubler (106) and mounting surface. Refer to NOTE 2 and SECTION B-B.

b) Secure doubler (106) using rivets (4 places, MS20470AD4-5). Fillet seal around edge of doubler.

c) If replacing antenna support assembly (105), apply sealant (501) to faying surface between antenna support assembly (105) and mounting surface. Refer to NOTE 2 and VIEW R.

d) Secure using rivets (14 places, MS20470AD4-6). Refer to NOTE 1 and VIEW Q.

NOTE: For electrical bonding of rivets at four corners. Do not deburr holes under rivet heads/tails. Install rivets dry. Touch up, prime and paint rivet heads to match surroundings, minimum 5mm beyond rivets. Cover rivets tails with protective coating (502) minimum 5mm beyond rivets. Refer to NOTE 1.

e) Fillet seal around edge of antenna support assembly (105). Refer to NOTE 2 and VIEW Q.

REMOVAL AND REPLACEMENT (continued)

- 3) VHF-FM 1 ANTENNA (Refer to Figure 4) (continued)
 - f) Clean area and apply conductive paste (503) between antenna (103) and mounting surface. Refer to NOTE 3.

NOTE: For electrical bonding at antenna base, remove all non-conductive coating over complete antenna footprint. Apply conductive paste (503) to interface between antenna and aircraft structure and install antenna using hardware shown. Clean excess sealant and fillet seal around antenna base with sealant (501). Refer to NOTE 3.

- g) Connect antenna coax cable and secure antenna (103) using screws (205, 3 places).
 - h) Seal antenna base using sealant (501). Refer to NOTE 3.
- 4) VHF-FM 2 ANTENNA (Refer to Figure 5)
 - a) Clean area and apply conductive paste (503) between antenna (103) and mounting surface. Refer to VIEW P and NOTE 3.

NOTE: For electrical bonding at antenna base, remove all non-conductive coating over complete antenna footprint. Apply conductive paste (503) to interface between antenna and aircraft structure and install antenna using hardware shown. Clean excess sealant and fillet seal around antenna base with sealant (501). Refer to NOTE 3.

- b) Connect antenna coax cable and secure antenna (103) using screws (205, 3 places), washers (216, 3 places) and nuts (221, 3 places).
 - c) Seal antenna base using sealant (501). Refer to NOTE 2.
- 5) Use an ohm meter, point to point check all connections to ensure correct installation.
- 6) Close all circuit breakers / fuses opened in the PRELIMINARIES paragraph of this section.
- 7) Connect battery in accordance with AS 350 B2/B3 AMM, Chapter 24-33-00,4-1.
- 8) Reconnect the external power unit, AS 350 B2/B3 AMM, Chapter 24-00-00,2-1 (if required).
- 9) Reference functional test – DC Power Supply System in accordance with AS 350 B2/B3 AMM, Chapter 24-30-00-5-1.
- 10) Perform operational check of all systems that were serviced in accordance with the AS 350 B3 AMM procedures and the system's installation/operation manual.

C. OPERATIONAL TEST

- 1) TDFM-136B TRANSCEIVER (Refer to Figures 1 & 2)
 - a) Perform Installation Setup in accordance with ATP H430I0307540.
- 2) TFM-138B TRANSCEIVER (Refer to Figures 1 & 2)
 - a) Perform Installation Setup in accordance with ATP H430I0307540.
- 3) MTP136D Mission Transceiver (Refer to Figures 1 & 2)
 - a) Perform Installation Setup in accordance with ATP H430I0307540.
- 4) NPX136D Panel Mount Transceiver (Refer to Figures 1 & 2)
 - a) Perform Installation Setup in accordance with ATP H430I0307540.
- 5) NPX138/NPX138N Series Panel Mount FM Transceiver (Refer to Figure 1 & 2)
 - a) Perform Installation Setup in accordance with ATP H430I0307540.
- 6) ANTENNAS (Refer to Figures 4 & 5)
 - a) Perform power check on ground in accordance with ATP H430I0307540.
 - b) Perform antenna resistance check and VSWR check in accordance with ATP H430I0307540.

**INSTRUCTIONS FOR CONTINUED
AIRWORTHINESS
SINGLE OR DUAL VHF-FM RADIO
INSTALLATION
AS 350 B3**



AIRBUS HELICOPTERS CANADA LIMITED

9 WEIGHT AND BALANCE DATA

A. Removed Items

DESCRIPTION	WEIGHT		ARM		MOMENT	
	kg	lbs	m	in	kg m	lb in
Not applicable	-0.00	-0.00	0.00	0.00	-0.00	-0.00
Total	-0.00	-0.00	0.00	0.00	-0.00	-0.00

B. Added Items – Apply total from FM1 or FM1/FM2 Configuration to Chart C.

Refer to Chart C. Added Items for Transceiver combinations and weight

VHF-FM 1 Configuration

DESCRIPTION	WEIGHT		ARM		MOMENT	
	kg	lbs	m	in	kg m	lb in
High Pass Filter	0.60	1.32	2.27	89.45	1.36	118.07
VHF-FM 1 Antenna	0.23	0.50	7.96	313.20	1.79	156.60
Antenna Support Assembly	0.05	0.11	7.96	313.20	0.40	34.45
Doubler	0.01	0.02	7.96	313.20	0.08	6.26
Relay Support	0.02	0.05	0.42	16.47	0.01	0.82
Dzus Rail	0.11	0.25	0.94	36.92	0.11	9.23
Total	1.02	2.25	3.67	144.64	3.75	325.43

VHF-FM 1/VHF-FM 2 Configuration

DESCRIPTION	WEIGHT		ARM		MOMENT	
	kg	lbs	m	in	kg m	lb in
High Pass Filter	0.60	1.32	1.84	72.52	1.11	95.73
VHF-FM 1 Antenna	0.23	0.50	7.96	313.20	1.79	156.60
Antenna Support Assembly	0.05	0.11	7.96	313.20	0.40	34.45
Doubler	0.01	0.02	7.96	313.20	0.08	6.26
VHF-FM 2 Antenna	0.23	0.50	2.43	95.83	0.55	47.92
Doubler	0.06	0.13	2.43	95.83	0.14	12.46
Relay Support	0.02	0.05	0.42	16.47	0.01	0.82
Dzus Rail	0.11	0.25	0.94	36.92	0.11	9.23
Total	1.30	2.88	3.21	126.20	4.19	363.47

9. WEIGHT AND BALANCE DATA (continued)

C. Added Items – Transceiver Configuration (continued)

Apply transceiver weight combination to Chart B Configuration.

DESCRIPTION	WEIGHT		ARM		MOMENT	
	kg	lbs	m	in	kg m	lb in
TDFM-136B/G - Instrument Panel	1.60	3.53	0.85	33.32	1.35	117.62
TDFM-136B/G - Center Console	1.60	3.53	1.07	42.15	1.71	148.79

DESCRIPTION	WEIGHT		ARM		MOMENT	
	kg	lbs	m	in	kg m	lb in
TFM-138B - Instrument Panel	1.40	3.09	0.85	33.32	1.18	102.96
TFM-138B - Center Console	1.40	3.09	1.07	42.15	1.50	130.24

DESCRIPTION	WEIGHT		ARM		MOMENT	
	kg	lbs	m	in	kg m	lb in
MTP136D - Instrument Panel	1.50	3.30	0.85	33.32	1.27	109.96
MTP136D - Center Console	1.50	3.30	1.07	42.15	1.60	139.10

DESCRIPTION	WEIGHT		ARM		MOMENT	
	kg	lbs	m	in	kg m	lb in
NPX136D - Instrument Panel	1.45	3.20	0.85	33.32	1.27	106.62
NPX136D - Center Console	1.45	3.20	1.07	42.15	1.60	134.88

DESCRIPTION	WEIGHT		ARM		MOMENT	
	kg	lbs	m	in	kg m	lb in
NPX138/NPX138N - Instrument Panel	1.36	3.00	0.85	33.32	1.15	99.96
NPX138/NPX138N - Center Console	1.36	3.00	1.07	42.15	1.46	126.45

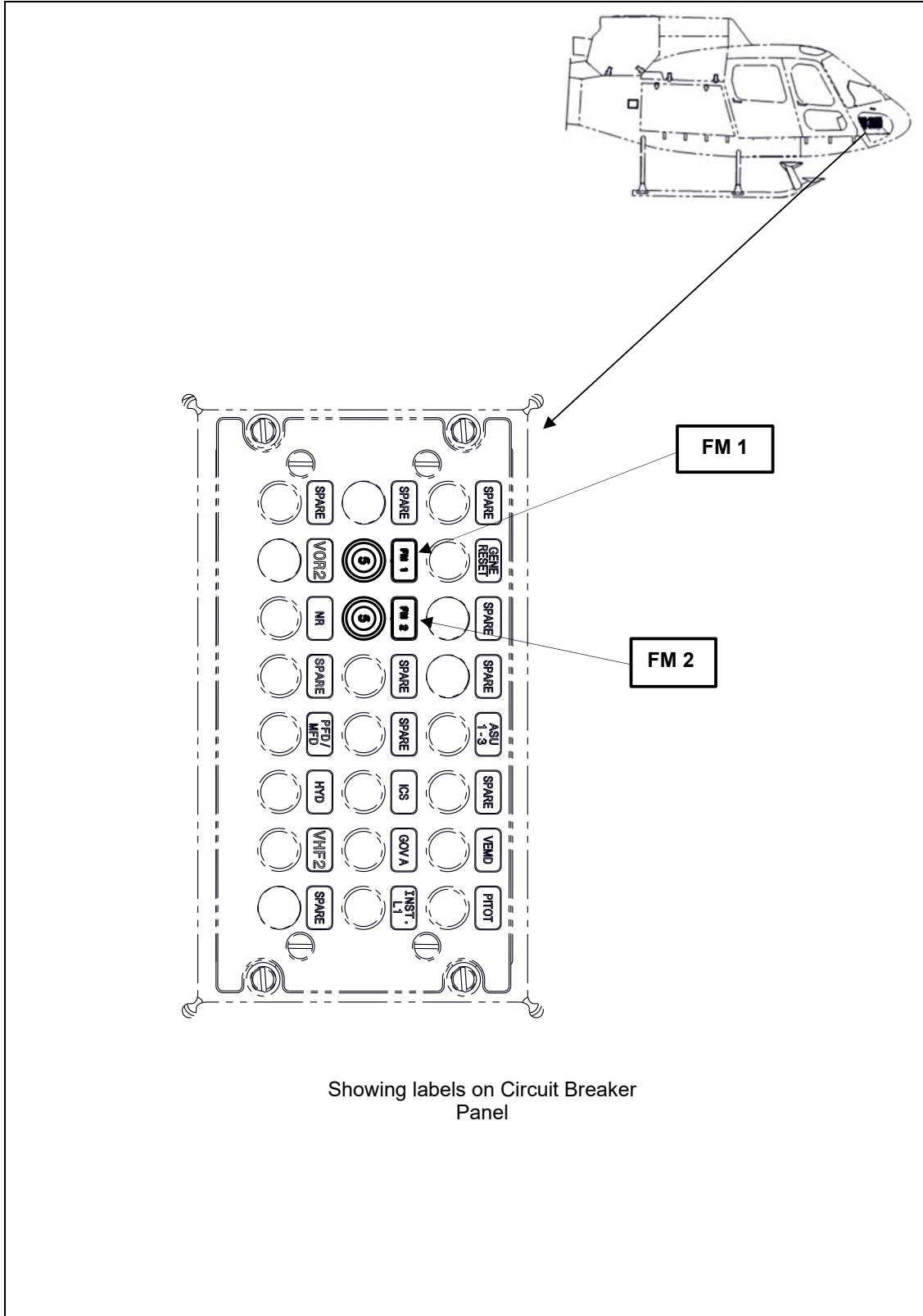


Figure 8 Label location on Circuit Breakers

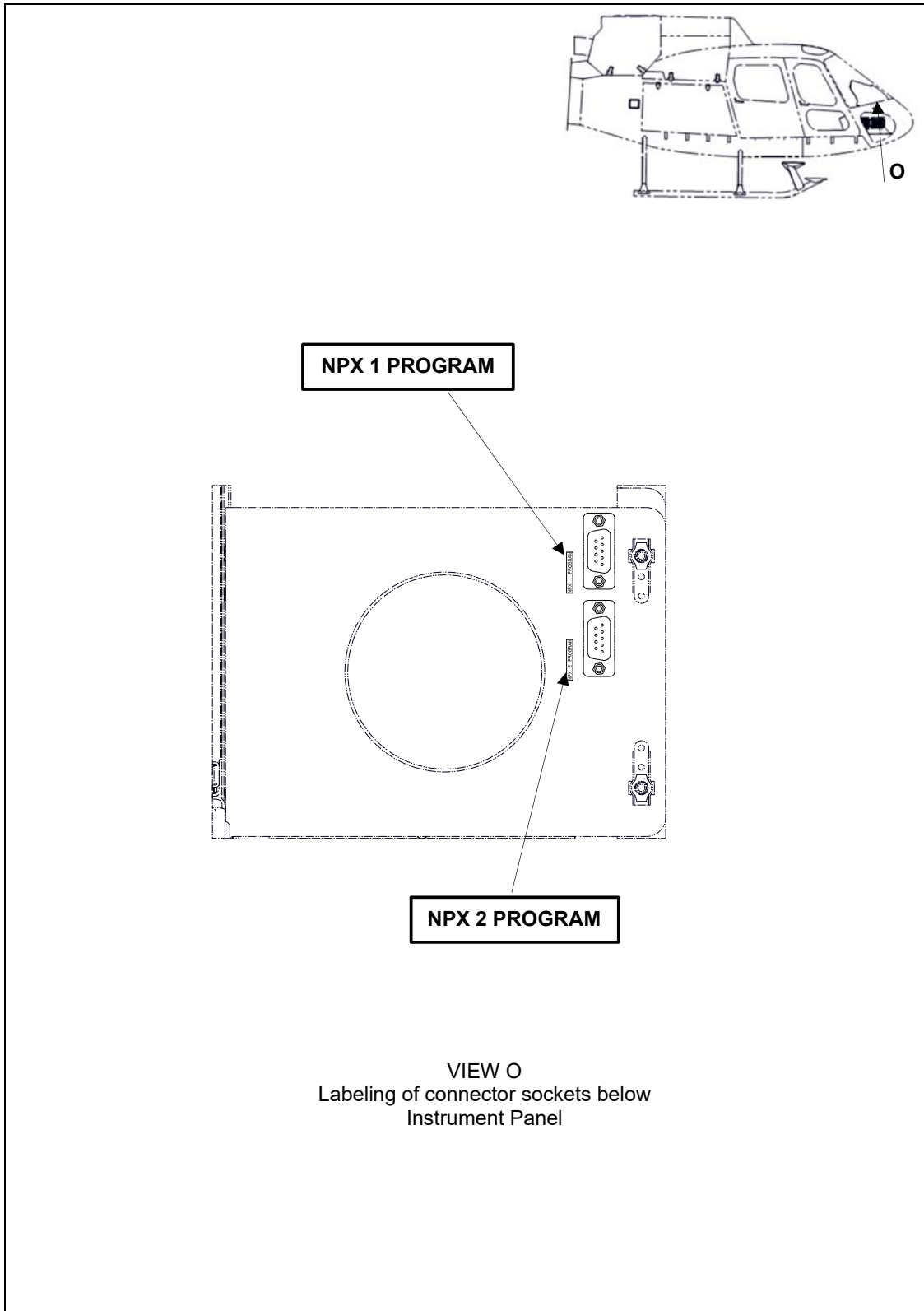


Figure 9 Label location on Circuit Breakers

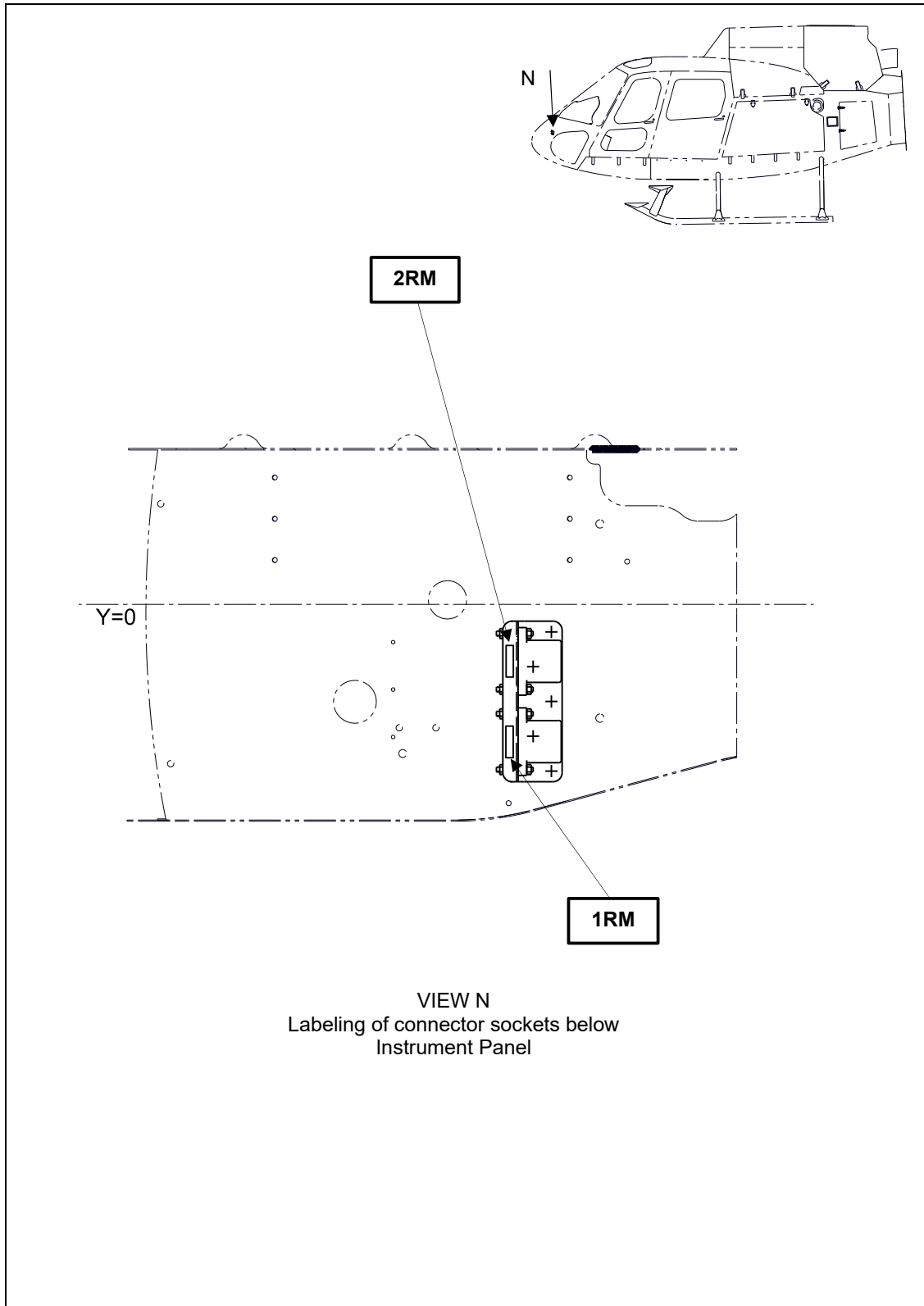


Figure 10 Label location on relay support in forward avionics