

AHRS FAN - REMOVAL/INSTALLATION

EFFECTIVITY: ALL

1. General

- A. This section gives the procedure to remove/install the AHRS fan.
- B. The AHRS 1 fan is installed on the left side of the electronic compartment.
- C. The AHRS 2 fan is installed on the right side of the electronic compartment.
- D. You will get access to the AHRS 1 fan and AHRS 2 fan through the 113CZ access panel, located in the electronic compartment.
- E. The procedures in this section are given in the sequence below. The tasks identified with (◆) are part of the Scheduled Maintenance Requirements Document (SMRD).

TASK NUMBER	DESCRIPTION	EFFECTIVITY
34-21-03-000-801-A	AHRS FAN - REMOVAL	ALL
34-21-03-400-801-A	AHRS FAN - INSTALLATION	ALL

TASK 34-21-03-000-801-A

EFFECTIVITY: ALL

2. AHRS FAN - REMOVAL

A. General

- (1) This task gives the procedure to remove the AHRS fan.
- (2) The AHRS fans are installed on the related AHRS mounting racks.

B. References

REFERENCE	DESIGNATION
AMM MPP 06-41-01/100	-
AMM TASK 32-00-01-910-801-A/200	LG SAFETY PIN - INSTALLATION AND REMOVAL
AMM TASK 34-21-01-000-801-A/400	AHRS COMPUTER - REMOVAL

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
213	113CZ	LH Electronic Compartment
214	113CZ	RH Electronic Compartment

D. Tools and Equipment

Not Applicable

E. Auxiliary Items

Not Applicable

F. Consumable Materials

Not Applicable

G. Expandable Parts

Not Applicable

H. Persons Recommended

QTY	FUNCTION	PLACE
1	Does the task	Electronic Compartment

I. Preparation

SUBTASK 841-002-A

- (1) Install the Landing Gear Safety Pin ([AMM TASK 32-00-01-910-801-A/200](#)).
- (2) Open access panel 113CZ (AMM MPP 06-41-01/100).
- (3) On the Circuit Breaker Panel, open the AHRS 1 and/or AHRS 2 circuit breaker and attach a DO-NOT-CLOSE tag to them.

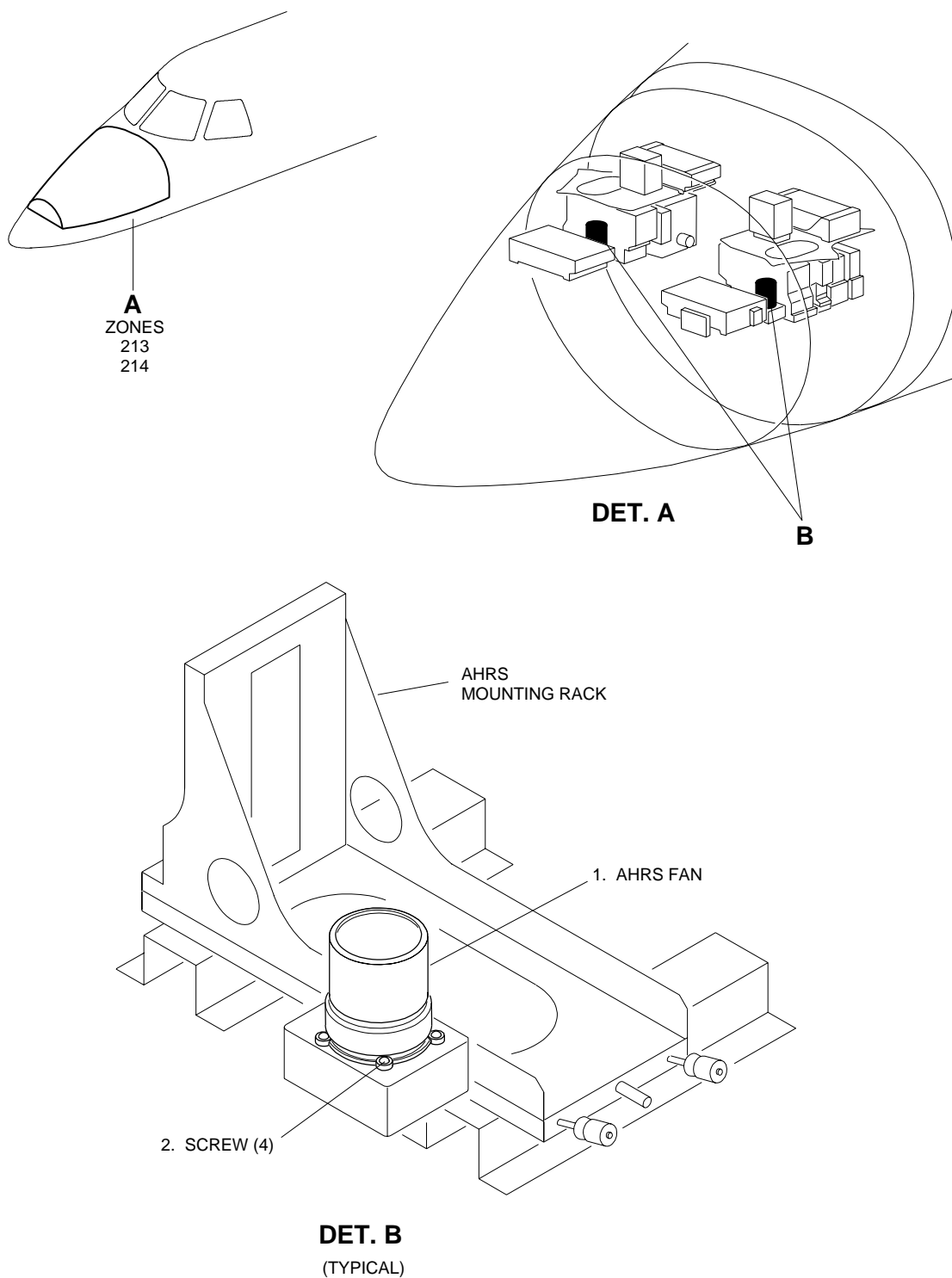
- (4) On the backup relay box, open the AHRS 1 and/or AHRS 2 circuit breaker and attach a DO-NOT-CLOSE tag to them.
- (5) Remove AHRS 1 and/or AHRS 2 ([AMM TASK 34-21-01-000-801-A/400](#)).

J. Removal ([Figure 401](#))

SUBTASK 020-002-A

- (1) Remove the fan filter (Pull the tab to disconnect the filter from the fan).
- (2) Disconnect the two wires (one red and one black) that come out of the fan housing.
- (3) Turn the rim clamps until the flat edge of each clamp points to the fan.
- (4) Disconnect the fan from the mounting plate.

EFFECTIVITY: ALL
AHRS Fan - Removal/Installation
Figure 401



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TASK 34-21-03-400-801-A
EFFECTIVITY: ALL

3. AHRS FAN - INSTALLATION

A. General

- (1) This task gives the procedure to install the AHRS Fan.
- (2) The AHRS fans are installed on the related AHRS mounting racks.

B. References

REFERENCE	DESIGNATION
AMM MPP 06-41-01/100	-
AMM TASK 32-00-01-910-801-A/200	LG SAFETY PIN - INSTALLATION AND REMOVAL
AMM TASK 34-21-01-400-801-A/400	AHRS COMPUTER - INSTALLATION
AMM TASK 34-21-03-700-801-A/500	AHRS FAN - OPERATIONAL TEST
WM 20-00-03	-

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
213	113CZ	LH Electronic Compartment
214	113CZ	RH Electronic Compartment

D. Tools and Equipment

Not Applicable

E. Auxiliary Items

Not Applicable

F. Consumable Materials

SPECIFICATION (BRAND)	DESCRIPTION	QTY
M39029/1-101	Contact	2
MIL-I-23053	Heat shrinkable sleeve RNF-100-1/8-9	AR

G. Expandable Parts

Not Applicable

H. Persons Recommended

QTY	FUNCTION	PLACE
1	Does the task	Electronic Compartment

I. Installation (Figure 401)

SUBTASK 420-002-A

- (1) For the AHRS fan cable end with two wires and contact pins compatible with aircraft splices, go to step 4.
- (2) For the AHRS fan cable end with two wires and contact pins NOT compatible with aircraft splices, do the steps below:
 - (a) Cut and remove the contact pin of the two red and black wires.
 - (b) Crimp contact pins P/N M39029/1-101 in the two red and black wires as given in WM 20-00-03.
 - (c) Go to step 4.
- (3) Do the steps below for the AHRS fan cable end with connector:
 - (a) Cut the cable and let a length of 250 mm; remove the original connector.
 - (b) Remove 50 mm of cable from the jacket end.
 - (c) Cut the wire braid as close as possible to the jacket end.
 - (d) Install the heat shrinkable sleeve RNF-100 1/8-9 (Spec. MIL-I-23053) along the cable length, in a way that it exceeds 15 to 20 mm from the end on the two sides.

WARNING: IN ENVIRONMENTS WHERE THERE IS RISK OF EXPLOSION, USE ONLY AN EXPLOSION-PROOF HEAT GUN AND MAKE SURE IT IS SET TO A TEMPERATURE BELOW THE SELF-IGNITION TEMPERATURE OF THE FUELS ABOARD THE AIRCRAFT.

- (e) Use a heat gun and heat the shrinkable sleeve.
 - (f) Crimp contact pins P/N M39029/1-101 in the two red and black wires as given in WM 20-00-03.
- (4) Put the fan in position on the mounting tray. Make sure that the AIRFLOW arrow on the fan points down.
- (5) Attach the fan to the base of the tray with three rim clamps. Make sure that the flat edge of the rim clamp points away from the fan.
- (6) Connect the red wire to a 28 V DC source.
- (7) Connect the black wire to the ground source.
- (8) Install the fan filter (align the cutout area on the bottom of the filter with the wires on the fan and push the fan on the filter until you hear a click).

J. Follow-on

SUBTASK 842-002-A

- (1) Install AHRS 1 and/or AHRS 2 ([AMM TASK 34-21-01-400-801-A/400](#)).

- (2) On the backup relay box, close the AHRS 1 and/or AHRS 2 circuit breaker and remove the DO-NOT-CLOSE tag from them.
- (3) On the circuit breaker panel, close the AHRS 1 and/or AHRS 2 circuit breaker and remove the DO-NOT-CLOSE tag from them.
- (4) Do the AHRS fan operational test ([AMM TASK 34-21-03-700-801-A/500](#)).
- (5) Close access panel 113CZ (AMM MPP 06-41-01/100).
- (6) Remove the landing gear safety pin ([AMM TASK 32-00-01-910-801-A/200](#)).

