



EMB145 - EMB135

AIRCRAFT
MAINTENANCE MANUAL

HF ANTENNA COUPLER - REMOVAL/INSTALLATION

EFFECTIVITY: AIRCRAFT WITH HF SYSTEM

1. General

- A. This section gives the procedures to remove and install the HF Antenna Coupler.
- B. 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
23-11-04-000-801-A	HF ANTENNA COUPLER - REMOVAL	AIRCRAFT WITH HF SYSTEM
23-11-04-400-801-A	HF ANTENNA COUPLER - INSTALLATION	AIRCRAFT WITH HF SYSTEM



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TASK 23-11-04-000-801-A

EFFECTIVITY: AIRCRAFT WITH HF SYSTEM

2. HF ANTENNA COUPLER - REMOVAL

A. General

- (1) This procedure gives the instructions to remove the HF Antenna Coupler.

B. References

REFERENCE	DESIGNATION
AMM MPP 06-41-01/100	-

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
272	272DR	Rear 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	At the rear electronic compartment

I. Preparation

SUBTASK 841-002-A

- (1) On the circuit breaker panel, open the HF circuit breaker and attach a DO-NOT-CLOSE tag to it (Location Tip: DC BUS 2/COMM/HF).
- (2) Open access door 272DR (AMM MPP 06-41-01/100).

J. Removal (Figure 401) (Figure 402)

SUBTASK 020-002-A

- (1) (FOR AIRCRAFT WITH HF-230 SYSTEM) Remove the HF antenna coupler as follows:
 - (a) Disconnect the electrical connectors (4), (5) and (6).
 - (b) Remove the four bolts (1) and washers (2).



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- (c) Remove the HF Antenna Coupler (3).
- (2) (FOR AIRCRAFT WITH SINGLE KHF-1050 SYSTEM) Remove the HF antenna coupler as follows:

CAUTION: DO NOT TOUCH THE ELECTRICAL PINS OF THE CONNECTORS.
DAMAGE CAN OCCUR TO THE INTERNAL ESDS COMPONENTS.

- (a) Disconnect the electrical connectors (2) from the front of the HF antenna coupler (1).
- (b) Put ESD protective caps on the electrical connectors (2).
- (c) Release the knurled nuts (3) which attach the HF antenna coupler (1) to the mounting rack.
- (d) Carefully pull the HF antenna coupler (1) to get access to the back of the instrument.

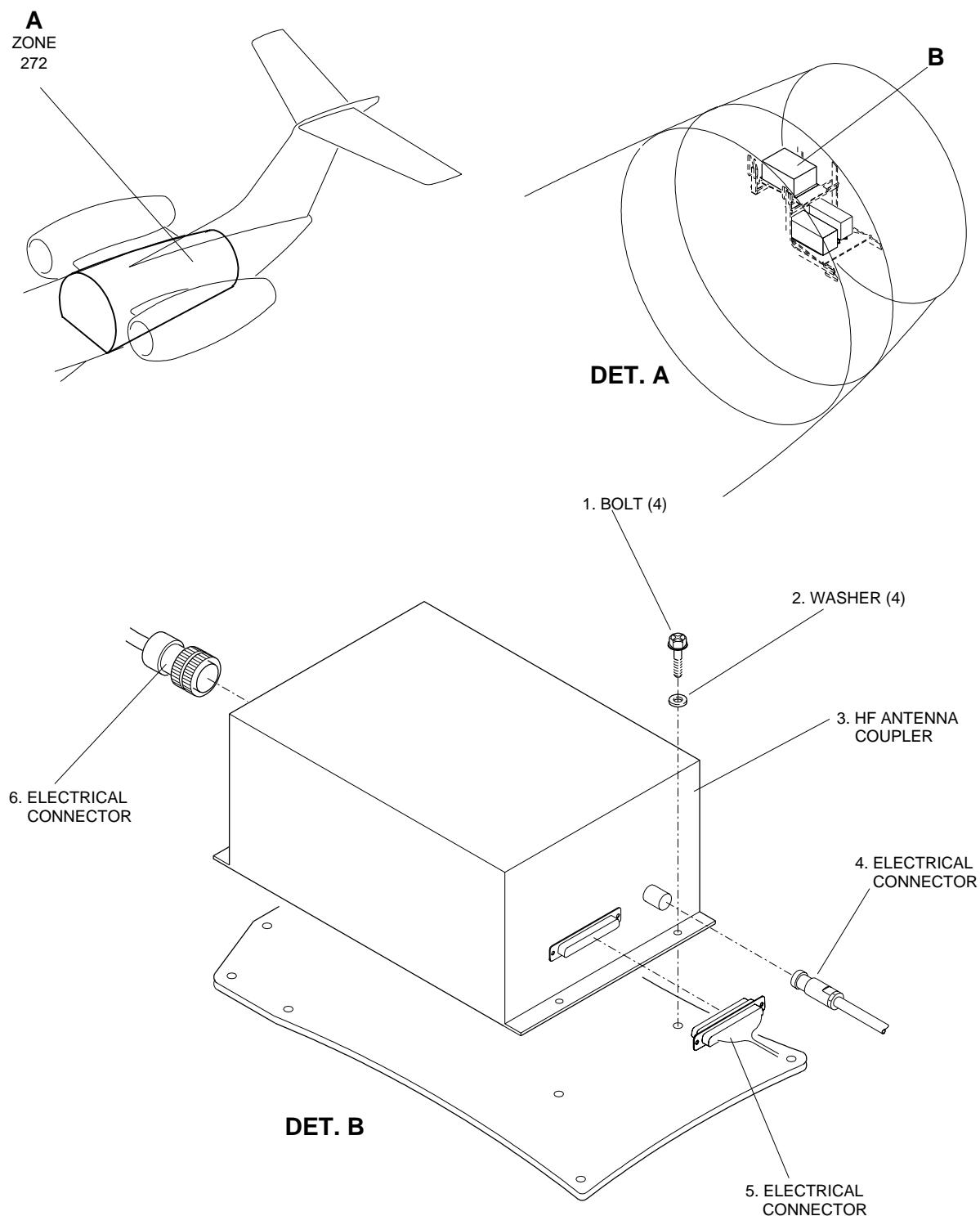
CAUTION: DO NOT TOUCH THE ELECTRICAL PINS OF THE CONNECTORS.
DAMAGE CAN OCCUR TO THE INTERNAL ESDS COMPONENTS.

- (e) Disconnect the electrical connector (4) from the back of the HF antenna coupler (1).
- (f) Put ESD protective cap on the electrical connector (4).
- (g) Remove the nut (7) and washer (6) to remove the grounding strip (5) from the back of the HF antenna coupler (1).
- (h) Remove the HF antenna coupler (1) from the mounting rack.

EFFECTIVITY: AIRCRAFT WITH HF-230 SYSTEM

HF Antenna Coupler - Removal/Installation

Figure 401

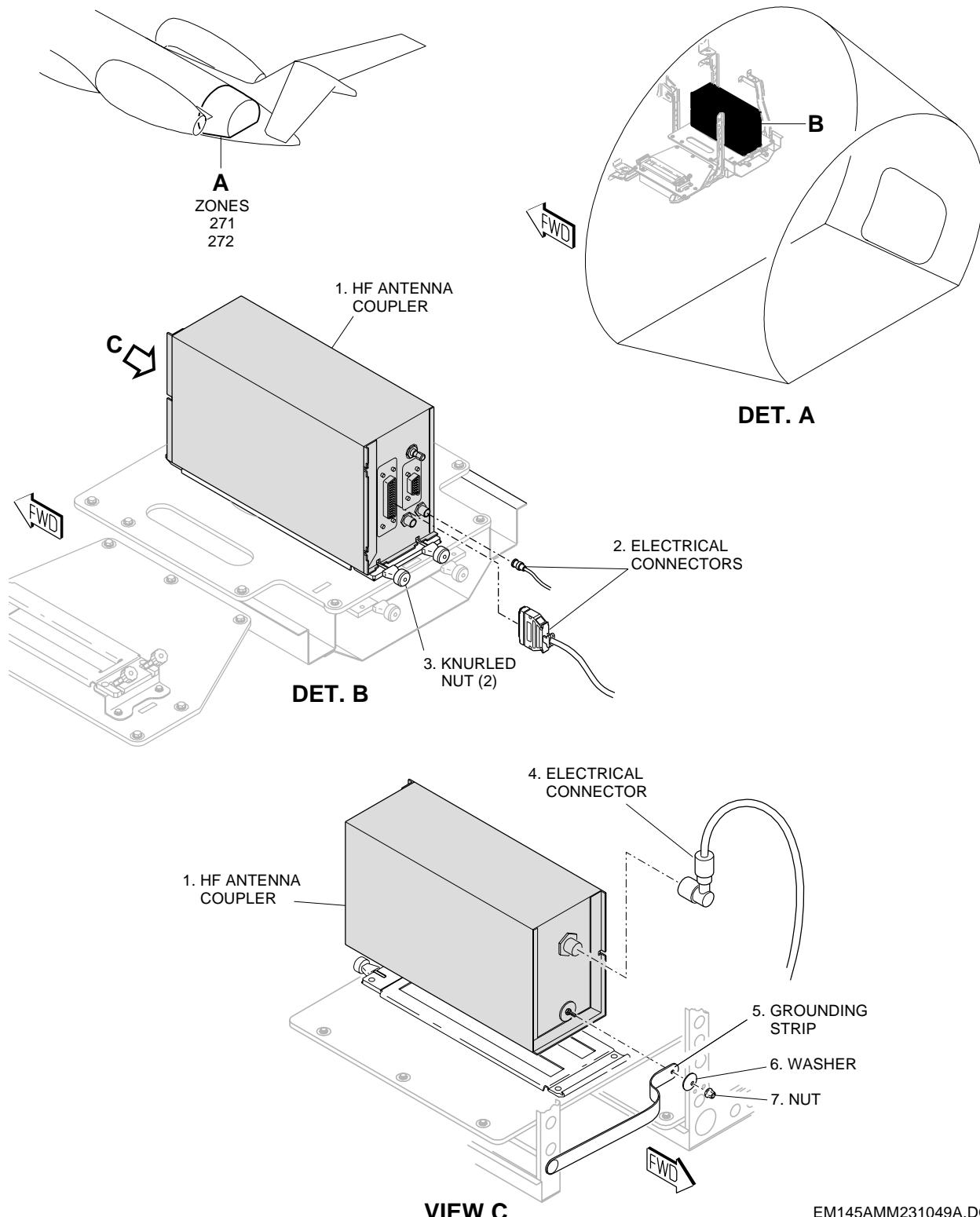


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EFFECTIVITY: AIRCRAFT WITH SINGLE KHF-1050 SYSTEM

HF Antenna Coupler (KAC-1052 Model) - Removal/Installation

Figure 402





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TASK 23-11-04-400-801-A

EFFECTIVITY: AIRCRAFT WITH HF SYSTEM

3. HF ANTENNA COUPLER - INSTALLATION

A. General

- (1) This procedure gives the instructions to install the HF Antenna Coupler.

B. References

REFERENCE	DESIGNATION
AMM MPP 06-41-01/100	-
AMM TASK 23-11-00-700-801-A/500	HF SYSTEM - FUNCTIONAL TEST

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
272	272DR	Rear 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	At the rear electronic compartment

I. Installation (Figure 401) (Figure 402)

SUBTASK 420-002-A

- (1) (FOR AIRCRAFT WITH HF-230 SYSTEM) Install the HF antenna coupler as follows:

- (a) Install the HF antenna coupler (3).
- (b) Install the four washers (2) and bolts (1).
- (c) Connect the electrical connectors (4), (5) and (6).

- (2) (FOR AIRCRAFT WITH SINGLE KHF-1050 SYSTEM) Install the HF antenna coupler as follows:

- (a) Install the HF antenna coupler (1) on the mounting rack.

- (b) Install the grounding strip (5) on the back of the HF antenna coupler (1) and attach the washer (6) and the nut (7).

**CAUTION: DO NOT TOUCH THE ELECTRICAL PINS OF THE CONNECTORS.
DAMAGE CAN OCCUR TO THE INTERNAL ESDS COMPONENTS.**

- (c) Remove the ESD protective cap from the electrical connector (4).
(d) Connect the electrical connector (4) on the back of the HF antenna coupler (1).
(e) Carefully push the HF antenna coupler (1) in the mounting rack.
(f) Tighten the knurled nuts (3) which attach the HF antenna coupler (1) to the mounting rack.

**CAUTION: DO NOT TOUCH THE ELECTRICAL PINS OF THE CONNECTORS.
DAMAGE CAN OCCUR TO THE INTERNAL ESDS COMPONENTS.**

- (g) Remove the ESD protective caps from the electrical connectors (2).
(h) Connect the electrical connectors (2) on the front of the HF antenna coupler (1).

J. Follow-on

SUBTASK 842-002-A

- (1) On the circuit breaker panel, close the HF circuit breaker and remove the DO-NOT-CLOSE tags from it (Location Tip: DC BUS 2/COMM/HF).
- (2) Do an operational test of the HF system ([AMM TASK 23-11-00-700-801-A/500](#)).
- (3) Close access door 272DR (AMM MPP 06-41-01/100).

