



EMB145 - EMB135

AIRCRAFT  
MAINTENANCE MANUAL

**HF EXTERNAL CAPACITOR - REMOVAL/INSTALLATION**

*EFFECTIVITY: AIRCRAFT WITH HF SYSTEM*

1. General

- A. This section gives the procedures to remove and install the HF External Capacitor.
- B. The HF External Capacitor is installed in the dorsal fin.
- C. 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
23-11-06-000-801-A	HF EXTERNAL CAPACITOR - REMOVAL	AIRCRAFT WITH SINGLE KHF-950 SYSTEM
23-11-06-400-801-A	HF EXTERNAL CAPACITOR- INSTALLATION	AIRCRAFT WITH SINGLE KHF-950 SYSTEM



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TASK 23-11-06-000-801-A

EFFECTIVITY: AIRCRAFT WITH SINGLE KHF-950 SYSTEM

2. HF EXTERNAL CAPACITOR - REMOVAL

A. General

- (1) This task gives the procedures to remove the HF External Capacitor.

B. References

REFERENCE	DESIGNATION
AMM MPP 06-41-01/100	-
AMM MPP 06-42-00/100	-

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
322	322BR	Dorsal fin, RH
272	272DR	Rear electronic compartment

D. Tools and Equipment

ITEM	DESCRIPTION	PURPOSE	QTY
Commercially available	Wrench	To remove the nut that attach the flat coupler wire to the HF External Capacitor	-
Commercially available	Screwdriver (or similar)	To remove the screws that attach the HF External Capacitor to the fuselage	-

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 dorsal fin, RH
1	Helps the other technician	At the rear electronic compartment

I. Preparation

*SUBTASK 841-002-A*

EFFECTIVITY: AIRCRAFT WITH SINGLE KHF-950 SYSTEM

- (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).
- (3) Remove access panel 322BR (AMM MPP 06-42-00/100).

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

SUBTASK 020-002-A

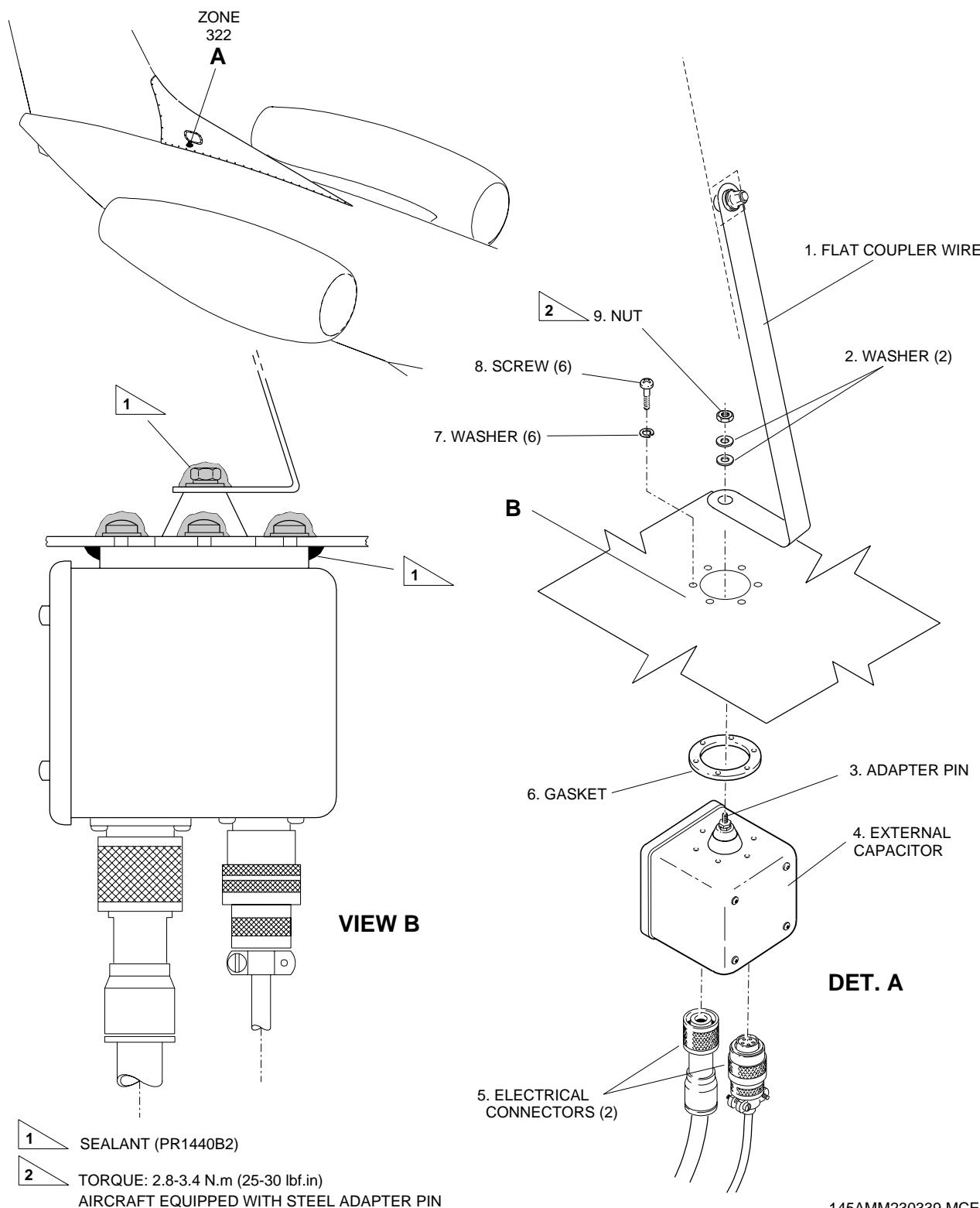
EFFECTIVITY: AIRCRAFT WITH SINGLE KHF-950 SYSTEM

- (1) Disconnect the electrical connectors (5).
- (2) Remove the sealant from the nut (9) and the screws (8).
- (3) On the rear electronic compartment ceiling, remove the sealant from around the HF External Capacitor (4).
- (4) Remove the nut (9) and washers (2) that attach the flat coupler wire (1) to the HF External Capacitor (4).
- (5) Carefully remove the flat coupler wire (1) from the HF External Capacitor (4).
- (6) Remove the screws (8) and washers (7) that attach the HF External Capacitor (4) to the fuselage.
- (7) Remove the HF External Capacitor (4).
- (8) Install the protection caps on the electrical connectors.

**EFFECTIVITY: AIRCRAFT WITH SINGLE KHF-950 SYSTEM**

HF External Capacitor KA-161 - Removal/Installation

Figure 401



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TASK 23-11-06-400-801-A

EFFECTIVITY: AIRCRAFT WITH SINGLE KHF-950 SYSTEM

3. HF EXTERNAL CAPACITOR- INSTALLATION

A. General

(1) This task gives the procedures to install the HF External Capacitor.

B. References

REFERENCE	DESIGNATION
AMM MPP 06-41-01/100	-
AMM MPP 06-42-00/100	-
<b>AMM TASK 23-11-00-700-802-A/500</b>	HF SYSTEM - FUNCTIONAL TEST
SRM 51-20-00	-

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
322	322BR	Dorsal fin, RH
272	272DR	Rear electronic compartment

D. Tools and Equipment

ITEM	DESCRIPTION	PURPOSE	QTY
Commercially available	Wrench	To install the nut that attach the flat coupler wire to the HF External Capacitor	
Commercially available	Screwdriver (or similar)	To install the screws that attach the HF External Capacitor to the fuselage	

E. Auxiliary Items

Not Applicable

F. Consumable Materials

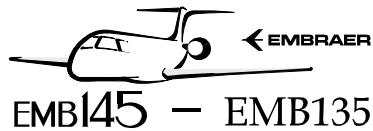
SPECIFICATION (BRAND)	DESCRIPTION	QTY
PR-1440B2 (Spec No. MIL-S-8802)	Sealant	AR

G. Expandable Parts

Not Applicable

H. Persons Recommended

QTY	FUNCTION	PLACE
1	Does the task	At the dorsal fin, RH
1	Helps the other technician	At the rear electronic compartment



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I. Installation (Figure 401)

SUBTASK 420-002-A

EFFECTIVITY: AIRCRAFT WITH SINGLE KHF-950 SYSTEM

- (1) Remove the protection caps from the electrical connectors (5).
- (2) Install the gasket (6) on the HF External Capacitor (4).
- (3) Put the HF External Capacitor(4) in position.
- (4) Install the washers (7) and the screws (8) that attach the HF External Capacitor (4) to the fuselage.
- (5) Carefully put the flat coupler wire (1) in position.
- (6) Install the washers (2) and the nut (9) that attach the flat coupler wire (1) to the HF External Capacitor (4).
- (7) Apply sealant as shown in figure HF External Capacitor. Refer to (SRM 51-20-00).
- (8) To decrease the sealant curing time, use table below.

Table 401 - SEALANT PR1440B2 CURING TIME TABLE

TIME	72 hrs	36 hrs	18 hrs	9 hrs	4.5 hrs
TEMPERATURE	24°C	31°C	38°C	44°C	51°C
	75.2°F	87.8°F	100.4°F	111.2°F	123.8°F

- (9) Connect the electrical connectors (5).

J. Follow-on

SUBTASK 842-002-A

EFFECTIVITY: AIRCRAFT WITH SINGLE KHF-950 SYSTEM

- (1) On the circuit breaker panel, close the HF circuit breaker and remove the DO-NOT-CLOSE tag from it (Location Tip: DC BUS 2/COMM/HF).
- (2) Do an operational test of the HF system ( [AMM TASK 23-11-00-700-802-A/500](#)).
- (3) Install access panel 322BR (AMM MPP 06-42-00/100).
- (4) Close access door 272 (AMM MPP 06-41-01/100).