



EMB145 - EMB135

AIRCRAFT
MAINTENANCE MANUAL

ISOLATION CONTROL UNIT (ICU) - MAINTENANCE PRACTICES

EFFECTIVITY: ALL

1. General

- A. This section gives the procedures to inhibit and de-inhibit the Isolation Control Unit (ICU).
- B. When the thrust lever commands the thrust reverser in the normal conditions, the ICU supplies hydraulic pressure to operate the system. With the ICU lever in the inhibit position, the ICU causes a blockage of the hydraulic fluid that goes to the system. This inhibits the operation of the thrust reverser.
- C. Each thrust reverser receives the hydraulic pressure from one ICU. The ICUs 1 and 2 are installed to the fuselage tail cone.
- D. These procedures are the same for the ICU 1 and ICU 2.
- E. ICU 1 is related to the LH Thrust-Reverser and ICU 2 is related to the RH Thrust-Reverser.
- F. 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
78-33-01-980-801-A	ISOLATION CONTROL UNIT - INHIBITION ALL PROCEDURES	



EMB145 – EMB135

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MAINTENANCE MANUAL

TASK 78-33-01-980-801-A

EFFECTIVITY: ALL

2. ISOLATION CONTROL UNIT - INHIBITION PROCEDURES

A. General

- (1) Obey the instructions below to inhibit and de-inhibit the ICU during maintenance and/or during flight when the thrust reverser is not in operation.

B. References

REFERENCE	DESIGNATION
AMM MPP 06-42-00/100	-
AMM TASK 78-31-01-980-801-A/200	LOCK/UNLOCK THE TR EXHAUST DOOR - STOWED POSITION

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
311	312AR	Fuselage Tail Cone
312	312AR	Fuselage Tail Cone

D. Tools and Equipment

ITEM	DESCRIPTION	PURPOSE	QTY
Commercially available	Ladder	To get access to the ICU	

E. Auxiliary Items

Not Applicable

F. Consumable Materials

Not Applicable

G. Expandable Parts

Not Applicable

H. Persons Recommended

QTY	FUNCTION	PLACE
01	Does the task	Fuselage tail cone

I. Preparation

SUBTASK 841-002-A

CAUTION: MAKE SURE THAT THE HYDRAULIC SYSTEM IS NOT IN OPERATION BEFORE YOU MOVE THE ICU INHIBITION LEVER TO THE INHIBIT POSITION.

- (1) Put the ladder near to the tail cone and open the access panel 312AR (AMM MPP 06-42-00/100).



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MAINTENANCE MANUAL

- (2) Get access to the ICU.

J. Inhibit ICU ([Figure 201](#))

SUBTASK 980-002-A

WARNING: WHEN YOU INHIBIT THE ICU FOR FLIGHT OPERATION, YOU MUST LOCK THE THRUST REVERSER DOORS IN THE STOWED POSITION WITH THE INHIBITION BOLTS (AMM TASK 78-31-01-980-801-A/200).

- (1) Remove the quick release pin from its storage position.
- (2) Manually push the ICU inhibition lever to the inhibit position. This will align the hole in the ICU housing with the hole in the inhibition lever.
- (3) Install the quick release pin to the aligned holes, and make sure that the inhibition lever contacts the ICU microswitch.

K. De-inhibit ICU ([Figure 201](#))

SUBTASK 980-003-A

WARNING: WHEN YOU DE-INHIBIT THE ICU, YOU MUST REMOVE THE INHIBITION BOLTS (AMM TASK 78-31-01-980-801-A/200) FROM THE THRUST REVERSER DOORS, IF THEY ARE INSTALLED.

- (1) Remove the quick release pin to disconnect the ICU housing from the inhibition lever.
- (2) Release the ICU inhibition lever to go back to the de-inhibit position.
- (3) Install the quick release pin to its storage position.

L. Follow-on

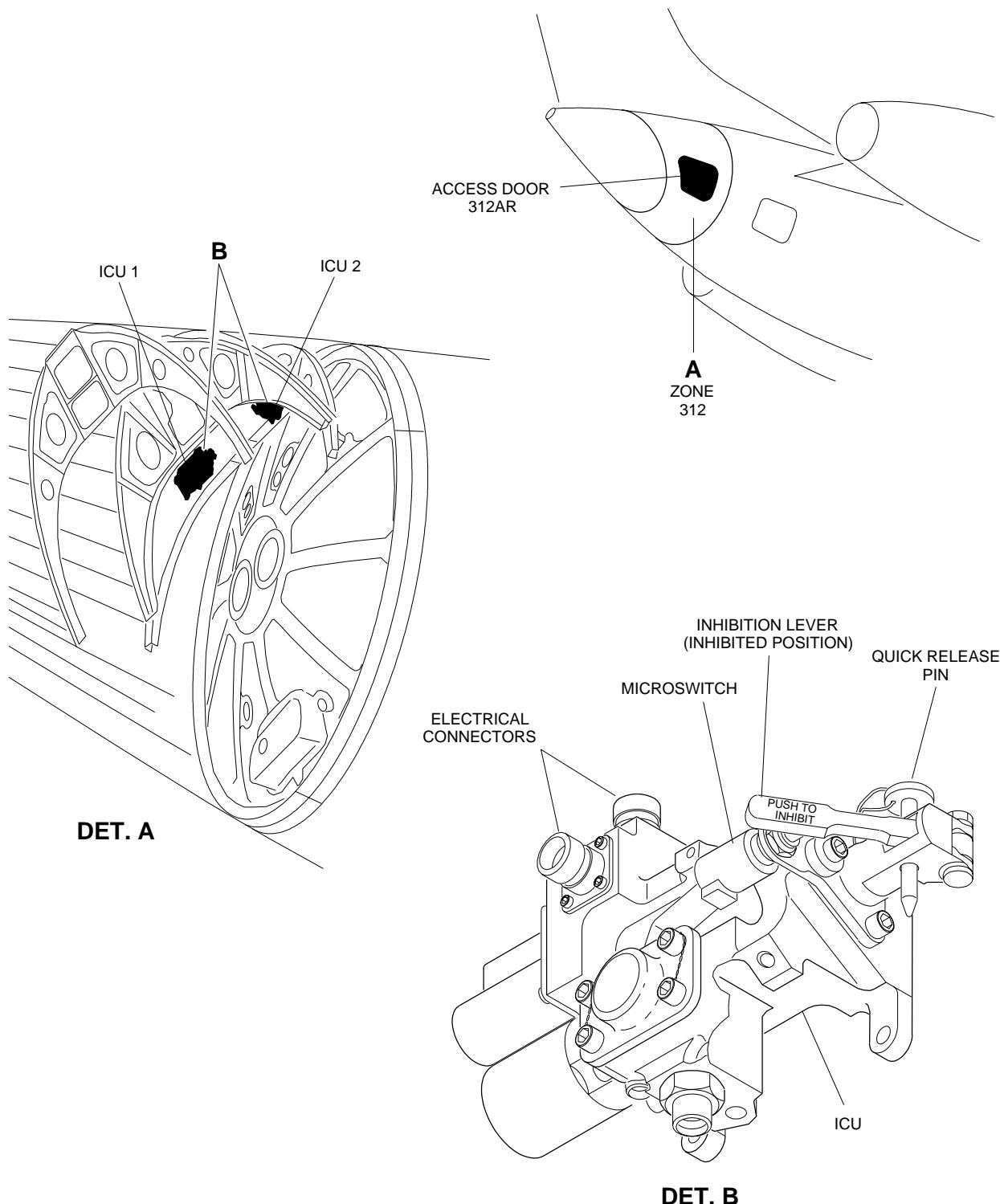
SUBTASK 842-002-A

- (1) Close the access panel 312AR (AMM MPP 06-42-00/100) and remove the ladder.

EFFECTIVITY: ALL

Isolation Control Unit - Inhibition/De-inhibition Procedures

Figure 201 - Sheet 1



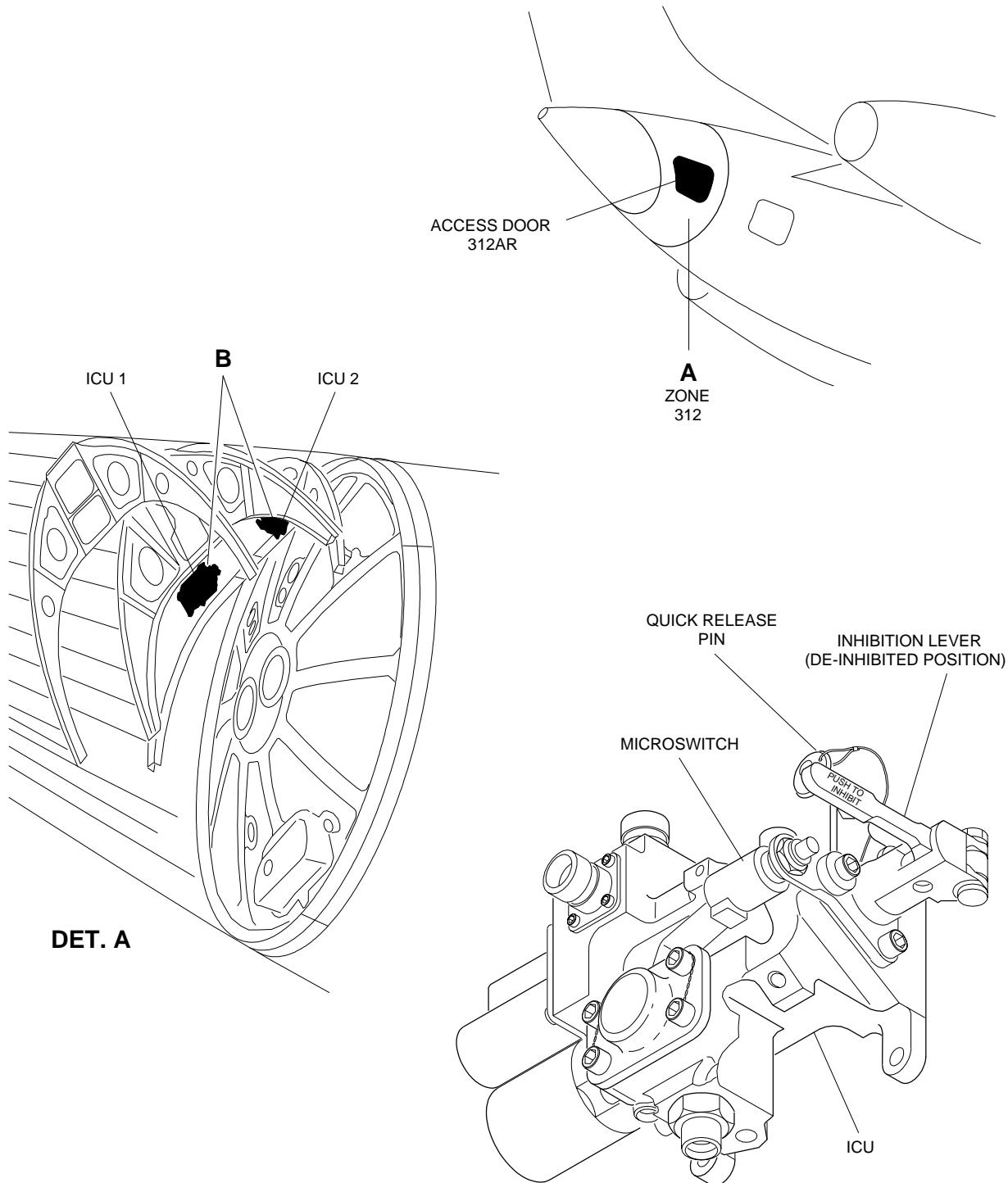
DET. B

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EFFECTIVITY: ALL

Isolation Control Unit - Inhibition/De-inhibition Procedures

Figure 201 - Sheet 2



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