

THRUST-REVERSER DOOR ACTUATOR - MAINTENANCE PRACTICES

EFFECTIVITY: ALL

1. General

- A. This section gives the procedures to manually release the secondary lock of the engine thrust-reverser actuators.
- B. These procedures are applicable to the LH and RH thrust-reversers.
- 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
78-32-01-980-801-A	ENGINE THRUST-REVERSER ACTUATOR (SECONDARY LOCK) - UNLOCK PROCEDURE	ALL
78-32-01-980-802-A	ENGINE THRUST-REVERSER ACTUATOR (SECONDARY LOCK) - LOCK PROCEDURE	ALL

TASK 78-32-01-980-801-A

EFFECTIVITY: ALL

2. ENGINE THRUST-REVERSER ACTUATOR (SECONDARY LOCK) - UNLOCK PROCEDURE

A. General

(1) Obey the instructions below to unlock the engine thrust-reverser actuator (secondary lock).

B. References

REFERENCE	DESIGNATION
AMM MPP 06-43-00/100	- COMPONENT LOCATION
AMM MPP 78-30-00/200	- MAINTENANCE PRACTICES
AMM TASK 78-32-05-980-801-A/200	ENGINE THRUST-REVERSER ACTUATOR (TERTIARY LOCK) - MANUAL OPERATION
AMM TASK 78-33-01-980-801-A/200	ISOLATION CONTROL UNIT - INHIBITION PROCEDURES

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
225	225DTC	Cockpit
416	416HT/416BB	LH Thrust Reverser
426	426HT/426BB	RH Thrust Reverser

D. Tools and Equipment

ITEM	DESCRIPTION	PURPOSE	QTY
Commercially available	Workstand	To get access to the engine thrust reverser	

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	Thrust reverser

I. Preparation

SUBTASK 841-002-A

WARNING: REFER TO THE GROUND SAFETY PRECAUTIONS GIVEN IN [AMM MPP 78-30-00/200](#) WHEN YOU DO THE THRUST REVERSER MAINTENANCE PROCEDURES.

CAUTION: MAKE SURE THAT ALL THE HYDRAULIC LINES ARE CONNECTED NOT TO PERMIT THE HYDRAULIC OIL TO FALL OUT.

- (1) Manually operate the ICU to prevent the operation of the thrust reverser ([AMM TASK 78-33-01-980-801-A/200](#)).
- (2) On the circuit breaker panel, open the circuit breakers below and attach a DO-NOT-CLOSE tag to them:
 - THRUST REVERSER 1/2.
 - HYD. ELEC. PUMP 1/2.
- (3) Put a DO-NOT-OPERATE-THE-THRUST-REVERSERS sign on the instrument panel, in the cockpit.
- (4) Put the workstand under the engine thrust reverser.
- (5) Open access panels 416HT/416BB/426HT/426BB ([AMM MPP 06-43-00/100](#)) to get access to the manual unlock device on the actuator head.

J. Unlock Procedure ([Figure 201](#))

SUBTASK 980-002-A

WARNING: • MAKE SURE THAT THE ICU IS INHIBITED ([AMM TASK 78-33-01-980-801-A/200](#)).

- MAKE SURE THAT THE THRUST REVERSERS ARE DEENERGIZED. ENERGIZED CIRCUITS CAN CAUSE INJURY TO PERSONS.
- MAKE SURE THAT THE HYDRAULIC TEST STAND IS NOT CONNECTED.

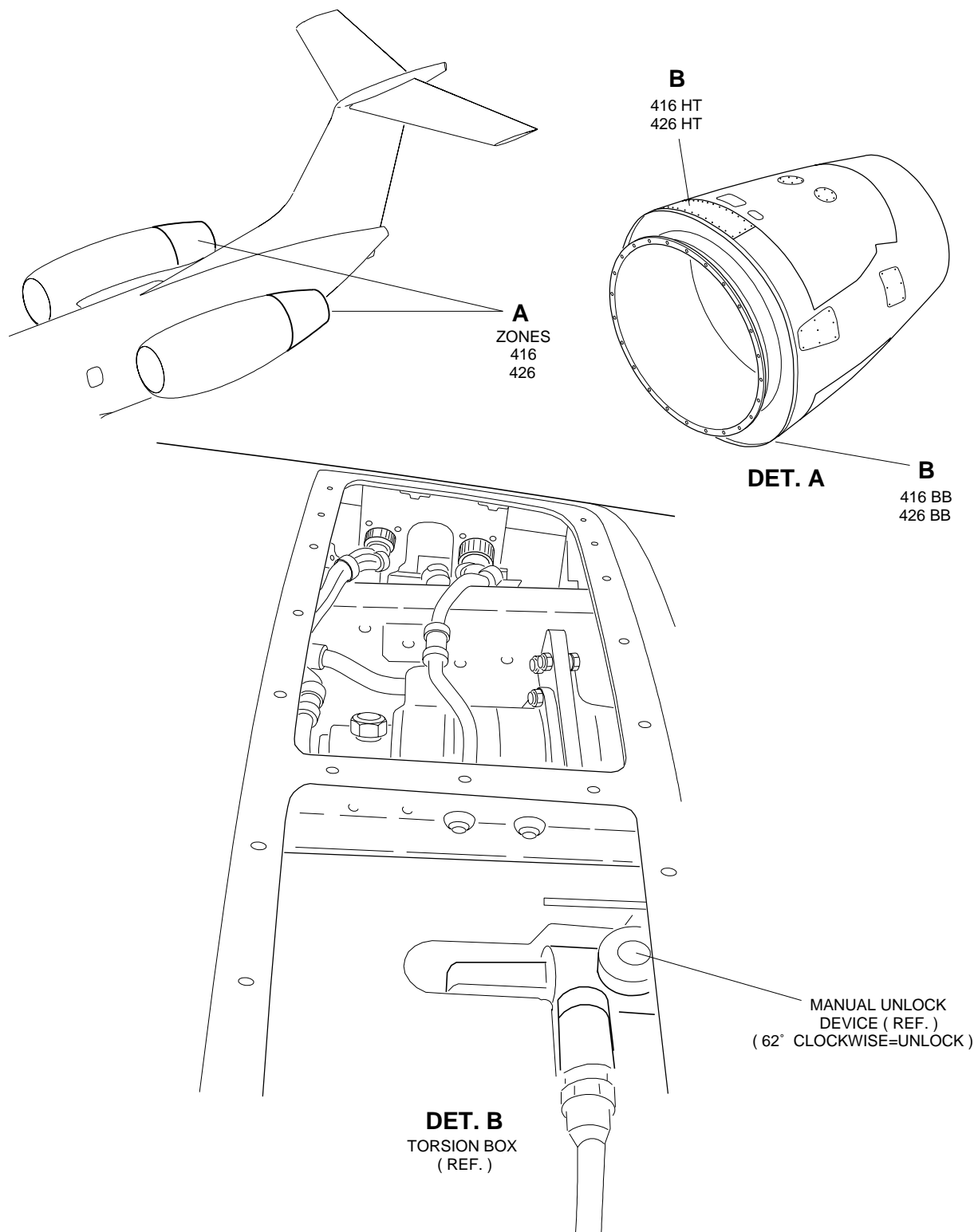
- (1) Manually unlock the tertiary lock ([AMM TASK 78-32-05-980-801-A/200](#)).
- (2) To manually release the secondary lock, with a standard tool, turn approximately 62° clockwise the square on the unlock-shaft manual unlock device and at the same time pull the door to open. This will operate an eccentric pin to axially move the unlock sleeve.

- NOTE:** • The unlock shaft also gives visual indication of the position of the unlock sleeve and thus the lock status.
- The unlock shaft earths out through the jackhead when the sleeve is moved away to unlock the actuator. This will prevent damage to the lock components caused by mishandling or overtorque.

EFFECTIVITY: ALL

Engine Thrust-Reverser Actuator (Secondary Lock) - Component Location

Figure 201



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TASK 78-32-01-980-802-A

EFFECTIVITY: ALL

3. ENGINE THRUST-REVERSER ACTUATOR (SECONDARY LOCK) - LOCK PROCEDURE

A. General

(1) Obey the instructions below to lock the engine thrust-reverser actuator (secondary lock).

B. References

REFERENCE	DESIGNATION
AMM MPP 06-43-00/100	- COMPONENT LOCATION
AMM TASK 78-31-01-700-801-A/500	THRUST REVERSER - OPERATIONAL CHECK
AMM TASK 78-33-01-980-801-A/200	ISOLATION CONTROL UNIT - INHIBITION PROCEDURES

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
225	225DTC	Cockpit
416	416HT/416BB	LH Thrust Reverser
426	426HT/426BB	RH Thrust Reverser

D. Tools and Equipment

ITEM	DESCRIPTION	PURPOSE	QTY
Commercially available	Workstand	To get access to the engine nacelle	

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	Thrust reverser

I. Lock Procedure (Figure 201)

SUBTASK 980-003-A

WARNING: • **MAKE SURE THAT THE ICU IS INHIBITED ([AMM TASK 78-33-01-980-801-A/200](#)).**

- **MAKE SURE THAT THE THRUST REVERSERS ARE DEENERGIZED. ENERGIZED CIRCUITS CAN CAUSE INJURY TO PERSONS.**
- **MAKE SURE THAT THE HYDRAULIC TEST STAND IS NOT CONNECTED.**

- (1) To manually lock the secondary lock, push the door to the closed position.

J. Follow-on

SUBTASK 842-002-A

- (1) On the circuit breaker panel, close the circuit breakers below and remove the DO-NOT-CLOSE tag from them:
 - THRUST REVERSER 1/2.
 - HYD. ELEC. PUMP 1/2.
- (2) Remove the DO-NOT-OPERATE-THE-THRUST-REVERSERS sign from the instrument panel, in the cockpit.
- (3) Install access panels 416HT/416BB/426HT/426BB ([AMM MPP 06-43-00/100](#)).
- (4) Remove the workstand from the work area.
- (5) Manually operate the ICU to put the thrust reverser back to the serviceable condition ([AMM TASK 78-33-01-980-801-A/200](#)).
- (6) Do the engine thrust-reverser operational check ([AMM TASK 78-31-01-700-801-A/500](#)).