

THRUST-REVERSER DOOR TERTIARY-LOCK ENGAGING ROLLER - REMOVAL/INSTALLATION

EFFECTIVITY: ALL

1. General

- A. This section gives the procedures to remove and install the engine thrust-reverser door tertiary-lock engaging roller and bracket assembly.
- 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
78-32-06-000-801-A	ENGINE THRUST-REVERSER DOOR TERTIARY-LOCK ENGAGING ROLLER AND BRACKET ASSEMBLY - REMOVAL	ALL
78-32-06-400-801-A	ENGINE THRUST-REVERSER DOOR TERTIARY-LOCK ENGAGING ROLLER AND BRACKET ASSEMBLY - INSTALLA- TION	ALL

TASK 78-32-06-000-801-A

EFFECTIVITY: ALL

2. ENGINE THRUST-REVERSER DOOR TERTIARY-LOCK ENGAGING ROLLER AND BRACKET ASSEMBLY - REMOVAL

A. General

- (1) Obey the instructions below to remove the engine thrust-reverser door tertiary-lock engaging roller and bracket assembly.
- (2) Each door has two equal tertiary-lock engaging rollers, and the removal is the same for all of them.

B. References

REFERENCE	DESIGNATION
AMM MPP 06-43-00/100	- COMPONENT LOCATION
AMM MPP 78-30-00/200	- MAINTENANCE PRACTICES
AMM TASK 78-31-01-940-801-A/200	THRUST REVERSER - OPENING PROCEDURE

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
416	LH Thrust Reverser	Engine nacelle
426	RH Thrust Reverser	Engine nacelle
416	416EB or 416KT	Thrust Reverser Door
426	426EB or 426KT	Thrust Reverser Door

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	In the work area

I. Preparation for the Engaging Roller Removal

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.

- 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) Put the workstand under the engine thrust reverser.
 - (2) Open the thrust reverser doors ([AMM TASK 78-31-01-940-801-A/200](#)).
 - (3) 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.
 - (4) Put a DO-NOT-OPERATE-THE-THRUST-REVERSERS sign on the instrument panel, in the cockpit.

J. Preparation for the Engaging-Roller Bracket Assembly Removal

SUBTASK 841-003-A

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

- 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) Put the workstand under the engine thrust reverser.
 - (2) Open access panel 416EB, 426EB, 416KT, or 426KT as applicable ([AMM MPP 06-43-00/100](#)).
 - (3) Open the thrust reverser doors ([AMM TASK 78-31-01-940-801-A/200](#)).
 - (4) 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.
 - (5) Put a DO-NOT-OPERATE-THE-THRUST-REVERSERS sign on the instrument panel, in the cockpit.

K. Removal of the Engaging Roller (Figure 401)

SUBTASK 020-002-A

WARNING: DO NOT APPLY HYDRAULIC POWER TO THE AIRCRAFT, NOR OPERATE THE THRUST REVERSER WHILE THE MAINTENANCE PERSONS ARE AT WORK.

- (1) Remove the split pin (1), castle nut (2), and washer (3).
- (2) Remove the bolt (4) and tertiary-lock engaging roller (5).

NOTE: Be careful during the removal of the bolt (4) not to let the tertiary-lock engaging roller fall into the thrust reverser system.

L. Removal of the Engaging-Roller Bracket Assembly (Figure 401)

SUBTASK 020-003-A

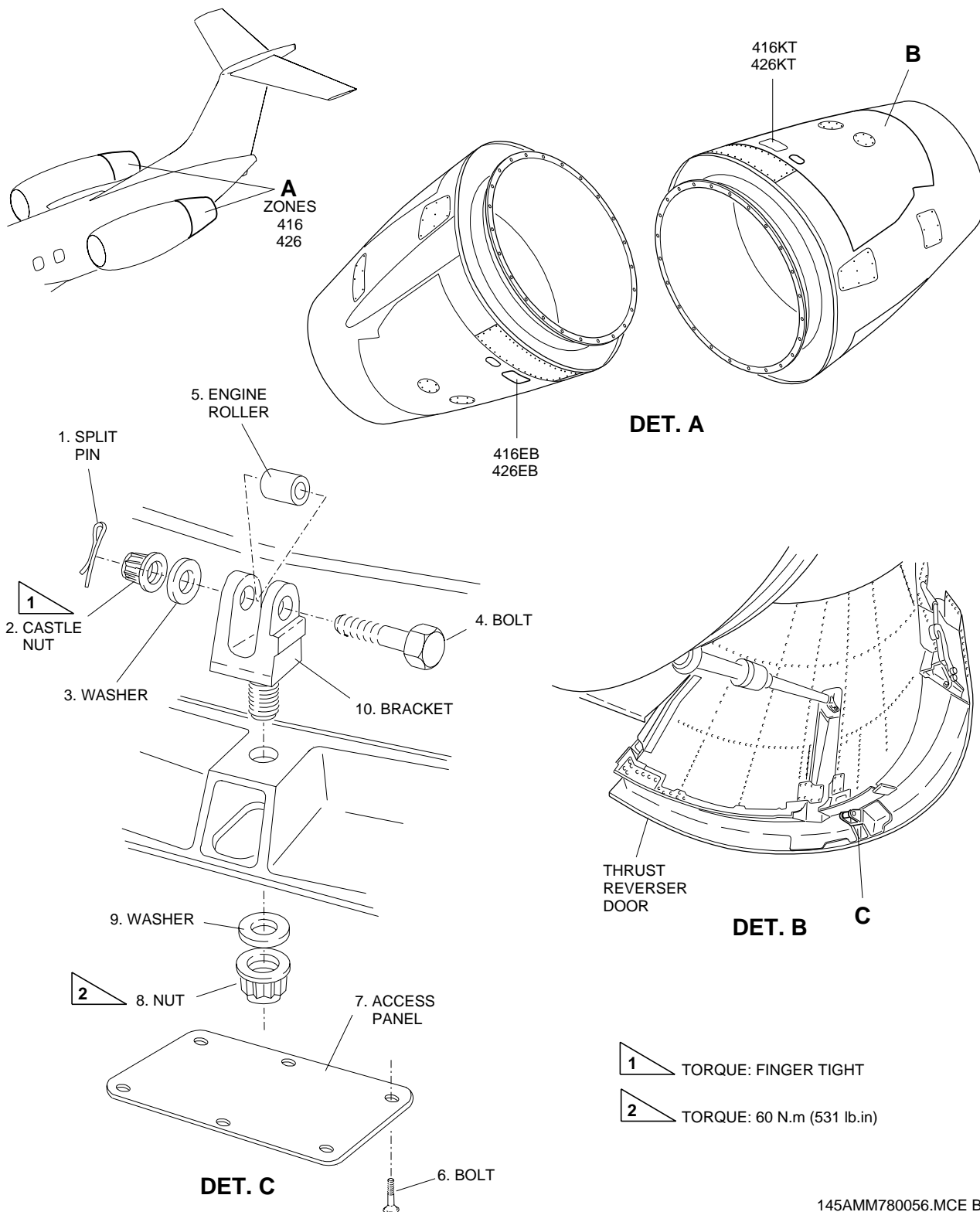
WARNING: DO NOT APPLY HYDRAULIC POWER TO THE AIRCRAFT, NOR OPERATE THE THRUST REVERSER WHILE THE MAINTENANCE PERSONS ARE AT WORK.

- (1) Remove the nut (8) and washer (9).
- (2) Pull out the bracket (10).

EFFECTIVITY: ALL

Engine Thrust-Reverser Door Tertiary-Lock Engaging Roller - Removal/Installation

Figure 401



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TASK 78-32-06-400-801-A

EFFECTIVITY: ALL

3. ENGINE THRUST-REVERSER DOOR TERTIARY-LOCK ENGAGING ROLLER AND BRACKET ASSEMBLY - INSTALLATION

A. General

- (1) Obey the instructions below to install the engine thrust-reverser door tertiary-lock engaging roller.
- (2) Each door has two equal tertiary-lock engaging roller, and the installation is the same for all of them.

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 78-31-01-940-802-A/200	THRUST REVERSER - CLOSURE PROCEDURE

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
416	LH Thrust Reverser	Engine nacelle
426	RH Thrust Reverser	Engine nacelle

D. Tools and Equipment

ITEM	DESCRIPTION	PURPOSE	QTY
Commercially available	Workstand	To get access to the engine nacelle	
Commercially available	Torque wrench	To tighten the attachment nuts	

E. Auxiliary Items

Not Applicable

F. Consumable Materials

Not Applicable

G. Expendable Parts

ITEM	IPC REFERENCE (VENDOR REFERENCE)	QTY
Split pin	-	1

H. Persons Recommended

QTY	FUNCTION	PLACE
1	Does the task	Thrust reverser

I. Installation of the Engaging Roller (Figure 401)

SUBTASK 420-002-A

WARNING: • **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) Install the tertiary-lock engaging roller (5) on the door structure fitting (tertiary-lock engaging roller bracket), and align the attachment holes.
- (2) Install the bolt (4), washer (3), and castle nut (2).
- (3) Loosen the castle nut by 1/4 turn maximum, if necessary, and install the split pin (1).
- (4) Make sure that the tertiary-lock engaging roller (5) turns freely after assembly.

J. Installation of the Engaging-Roller Bracket Assembly (Figure 401)

SUBTASK 420-003-A

WARNING: • **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) Put the bracket assembly (10).
- (2) Install the washer (9) and nut (8).

K. Follow-on for the Engaging Roller Installation

SUBTASK 842-002-A

CAUTION: EXAMINE ALL THE WORK AREAS TO MAKE SURE THAT YOU DID NOT LET TOOLS OR OTHER EQUIPMENT STAY BEHIND.

- (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) Close the thrust reverser doors ([AMM TASK 78-31-01-940-802-A/200](#)).
- (4) Remove the workstand from the work area.

- (5) Do the engine thrust reverser operational check ([AMM TASK 78-31-01-700-801-A/500](#)).

L. Follow-on for the Engaging-Roller Bracket Assembly Installation

SUBTASK 842-003-A

CAUTION: EXAMINE ALL THE WORK AREAS TO MAKE SURE THAT YOU DID NOT LET TOOLS OR OTHER EQUIPMENT STAY BEHIND.

- (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) Close the thrust reverser doors ([AMM TASK 78-31-01-940-802-A/200](#)).
- (4) Install the access panel 416EB, 426EB, 416KT, or 426KT as applicable ([AMM MPP 06-43-00/100](#)).
- (5) Remove the workstand from the work area.
- (6) Do the engine thrust-reverser operational check ([AMM TASK 78-31-01-700-801-A/500](#)).