



AIRCRAFT
MAINTENANCE MANUAL

THRUST-REVERSER DOOR PRIMARY-LOCK S-HOOK - REMOVAL/INSTALLATION

EFFECTIVITY: ALL

1. General

- A. This section gives the procedures to remove and install the thrust-reverser door primary-lock S-hook.
- B. These procedures are applicable to the LH and RH thrust reverser.
- 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 |
|--------------------|---|-------------|
| 78-32-03-000-801-A | THRUST-REVERSER DOOR PRIMARY-LOCK S-HOOK - REMOVAL | ALL |
| 78-32-03-400-801-A | THRUST-REVERSER DOOR PRIMARY-LOCK S-HOOK - INSTALLATION | ALL |



AIRCRAFT MAINTENANCE MANUAL

TASK 78-32-03-000-801-A

EFFECTIVITY: ALL

2. THRUST-REVERSER DOOR PRIMARY-LOCK S-HOOK - REMOVAL

A. General

- (1) Obey the instructions below to remove the thrust-reverser door primary-lock S-hook.

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 | 416QL/416PR/416IZ/416ZZ | LH Thrust reverser |
| 426 | 426QL/426PR/426IZ/426ZZ | 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 | In the work area |



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.

- 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 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.

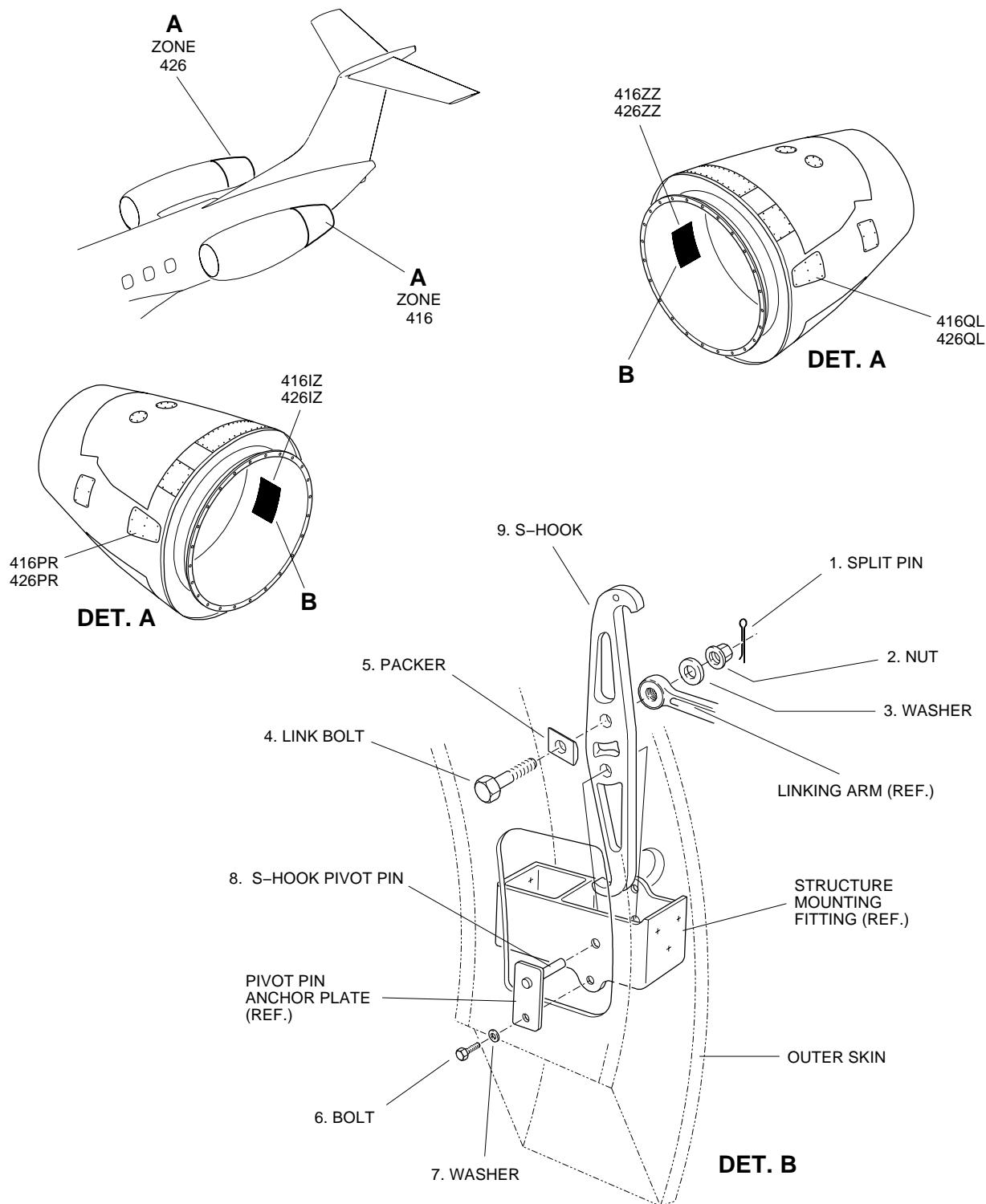
WARNING: DO NOT APPLY HYDRAULIC POWER TO THE AIRCRAFT, NOR OPERATE THE THRUST REVERSER WHILE THE MAINTENANCE PERSONS ARE AT WORK.

- (5) Remove access panels 416QL, 426QL, 416PR, 426PR, 416IZ, 426IZ, 416ZZ, and 426ZZ ([AMM MPP 06-43-00/100](#)), to get access to the thrust-reverser door primary-lock S-hook.

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

SUBTASK 020-002-A

- (1) From the outer skin side, remove the split pin (1), nut (2), and washers (3).
- (2) From the inner skin side, remove the link bolt (4) and packer (5).
- (3) Remove the bolt (6) and washer (7).
- (4) While you hold the S-hook (9), remove the S-hook pivot pin (8) from the inner skin side.
- (5) Remove the S-hook (9) from the outer skin beam access.

EFFECTIVITY: ALL
Thrust-Reverser Door Primary-Lock S-Hook - Removal/Installation
Figure 401

EM145AMM780067C.DGN



EMB145 - EMB135

AIRCRAFT
MAINTENANCE MANUAL

TASK 78-32-03-400-801-A

EFFECTIVITY: ALL

3. THRUST-REVERSER DOOR PRIMARY-LOCK S-HOOK - INSTALLATION

A. General

(1) Obey the instructions below to install the thrust-reverser door primary-lock S-hook.

B. References

| REFERENCE | DESIGNATION |
|---------------------------------|--|
| - | - |
| AMM MPP 06-43-00/100 | - COMPONENT LOCATION |
| AMM TASK 78-31-01-820-801-A/500 | THRUST REVERSER - RIGGING PROCEDURE |
| AMM TASK 78-31-01-820-802-A/500 | THRUST REVERSER - MANUAL RIGGING PROCEDURE |
| AMM TASK 78-31-01-940-802-A/200 | THRUST REVERSER - CLOSURE PROCEDURE |

C. Zones and Accesses

| ZONE | PANEL/DOOR | LOCATION |
|------|-------------------------|--------------------|
| 416 | 416QL/416PR/416IZ/416ZZ | LH Thrust reverser |
| 426 | 426QL/426PR/426IZ/426ZZ | 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. 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 (Figure 401)

SUBTASK 420-002-A

- WARNING:** • **MAKE SURE THAT ELECTRICAL POWER SUPPLY IS REMOVED FROM THE THRUST REVERSERS. ENERGIZED CIRCUITS CAN CAUSE INJURY TO PERSONS.**
- **MAKE SURE THAT THE HYDRAULIC TEST STAND IS NOT CONNECTED.**

- (1) Install the S-hook (9) on the structure fitting, and align the structure fitting holes with the S-hook pivot hole.
- (2) From the inner skin side, install the S-hook pivot pin (8).
- (3) Install the bolt (6) and washer (7).
- (4) Align the linking arm attaching hole with the S-hook, and from the inner skin beam access, install the packer (5) and link bolt (4).
- (5) From the outer skin, install the washer (3), nut (2), and split pin (1).

J. Follow-on

SUBTASK 842-002-A

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

- (1) Install access panels 416QL, 426QL, 416PR, 426PR, 416IZ, 426IZ, 416ZZ, and 426ZZ ([AMM MPP 06-43-00/100](#)).
- (2) 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.
- (3) Remove the DO-NOT-OPERATE-THE-THRUST-REVERSERS sign from the instrument panel, in the cockpit.
- (4) Close the thrust-reverser doors ([AMM TASK 78-31-01-940-802-A/200](#)).
- (5) Remove the workstand from the work area.

CAUTION: THRUST REVERSER RIGGING IS NECESSARY TO MAKE SURE OF THE CORRECT THRUST REVERSER OPERATION. IF THE THRUST REVERSER IS NOT CORRECTLY RIGGED, FAILURE MESSAGES WILL COME INTO VIEW ON THE EICAS AND CMC, AND CAUSE INTERRUPTIONS IN THE AIRCRAFT OPERATION.

- (6) Do the thrust-reverser rigging procedure ([AMM TASK 78-31-01-820-801-A/500](#)) or ([AMM TASK 78-31-01-820-802-A/500](#)), as applicable.