

## DETAILED INSPECTION OF THE ENGINE NACELLES AND PYLONS

#### 1. OVERVIEW OF THE JOB

Operation codes:

- 54-00-00-220-801-01 engine 1 (L5EZ)
- 54-00-00-220-801-02 engine 2 (R5EZ)
- NOTE 1: The scope of the inspection to be performed, the types of damage to look for during this inspection and the possible repairs are given in the "INSPECTIONS" description section (SDS 20-10-00).
- NOTE 2: When performing inspections or checks, if corrosion, cracks or other defects are found, refer to the applicable procedure (RPI 51-00-05) which will guide you through the damage classification and repair process identification.

# <u>2.</u> <u>LOGISTICS</u> <u>+</u>

#### 3. JOB SET-UP

Refer to fig. 1

A. Remove the access doors (<u>432AB</u>), (<u>432BB</u>), (<u>432DB</u>), (<u>433AB</u>), (<u>433AT</u>), (<u>433BB</u>), (<u>433CB</u>), (<u>434AB</u>), (<u>444AB</u>), (<u>444AB</u>), (<u>444AB</u>), (<u>444AB</u>), (<u>444AB</u>), (<u>444CB</u>).

#### 4. INSPECTION

Refer to fig. 1, ♦, fig. 2 and fig. 3

- A. Nacelles
  - (1) In engine compartment, check front bulkhead:
    - · mounts for condition and security of attachment,
    - · condition of front edge, cowling seating surface.
- B. Engine pylons
  - (1) Check upper (1-fig. 2) and lower skin (3-fig. 2) for:
    - impact damage,
    - · missing or defective rivets,
    - · delamination,
    - · burns marks,
    - · dents,
    - · cracks.
    - nicks,
    - abrasion,
    - tears.
  - (2) Inspect pylon-to-fuselage bracket (2-fig. 2) and (4-fig. 2) for:
    - · condition,
    - · corrosion,
    - · cracks.
  - (3) Inspect pylon-to-nacelle connecting seals:
    - (a) Check the attachment and condition of the upper and lower surface pylon-to-nacelle

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connecting seals (10-fig. 2) (absence of damage or tears).

- (b) Record defective seal(s) for replacement at next engine removal.
- (4) Through all the access doors:
  - (a) Check the pylon box structure for cleanliness and absence of foreign matter.
  - (b) Check all the cables (electrical and coaxial) and connectors:
    - 1 Check the clamps for condition and correct tightening.
    - 2 Check the markings for condition.
    - 3 Check the cables for wear or twisting.
    - 4 Check the electrical connectors for:
      - · cleanliness,
      - locking,
      - · safetying.
  - (c) Through access panels (432AB)/(442AB) and (432BB)/(442BB) (fig. 3):
    - 1 Check the following items for condition, impact marks, leaks or corrosion:
      - air starter pipe (4-fig. 3),
      - fuel pipe (3-fig. 3),
      - hydraulic pipes (1-fig. 3) and couplings.
    - 2 Check the internal box structure for:
      - · paint condition,
      - · corrosion,
      - · distortion.
      - · separation,
      - delamination,
      - signs of overheating,
      - · condition of attachment,
      - · loose or missing rivets,
      - · cracks.
    - 3 Check the electrical wiring for appearance, cleanliness, routing, security and marking.
    - 4 Make sure that there is no contact between the electrical cables and the structure.
  - (d) Through access panels (433BB)/(443BB) (fig. 3):
    - 1 Check the following items for condition, attachment, impact marks, leaks, burns or corrosion:
      - air starter pipe (<u>7-fig. 3</u>),
      - engine starting valve (8-fig. 3),
      - engine bleed air valve (10-fig. 3),
      - air pipe (<u>6-fig. 3</u>),
      - extinguisher pipes (5-fig. 3),
      - fuel pressurization pipe (11-fig. 3),
      - shroud (<u>9-fig. 3</u>),
      - hydraulic pipes (12-fig. 3) and couplings.
    - 2 Check the internal structure box for:
      - · paint condition,
      - · corrosion,
      - distortion,
      - · separation,



- · delamination.
- · signs of overheating,
- · condition of attachment,
- · loose or missing rivets,
- · cracks.
- 3 Do a detailed inspection (DET) of the engine pylon rib at FR32a.
- 4 Check the electrical wiring for appearance, cleanliness, routing, security and marking.
- 5 Make sure that there is no contact between the electrical cables and the structure.
- (e) Through access panels (434CB)/(444CB) (fig. 3):
  - 1 Check the following items for condition, attachment, impact marks, leaks, burns or corrosion:
    - hydraulic pipes (15-fig. 3) and couplings.
  - 2 Check the internal box structure for:
    - · paint condition,
    - · corrosion,
    - distortion,
    - · separation,
    - · delamination,
    - · signs of overheating,
    - · condition of attachment,
    - loose or missing rivets,
    - · cracks.
- (f) Check firewall (2-fig. 3) for condition.

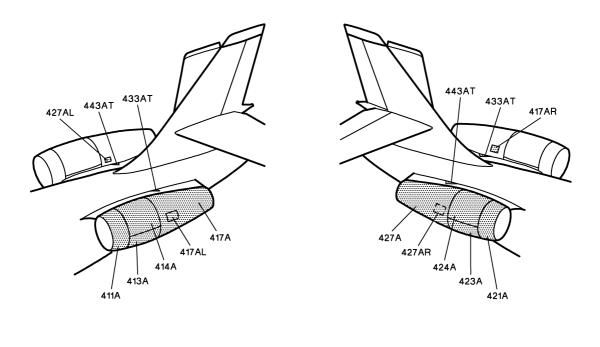


- (g) Check seals (9-fig. 2), (10-fig. 2) and (11-fig. 2):
  - $\underline{1}$  Check security of attachment and condition of upper and lower seals ( $\underline{9}$ -fig.  $\underline{2}$ ), ( $\underline{10}$ -fig.  $\underline{2}$ ) and ( $\underline{11}$ -fig.  $\underline{2}$ ) (no damage or tears).
  - 2 Replace any defective seal(s).

### 5. CLOSE-UP

- A. Make sure that the work area is clean and clear of tools or other items.
- B. Install the access doors (432AB), (432BB), (432DB), (433AB), (433AT), (433BB), (433CB), (434AB), (434CB), (442AB), (442BB), (442BB), (443AB), (443AB), (443AB), (443AB), (443AB), (444AB) and (444CB).





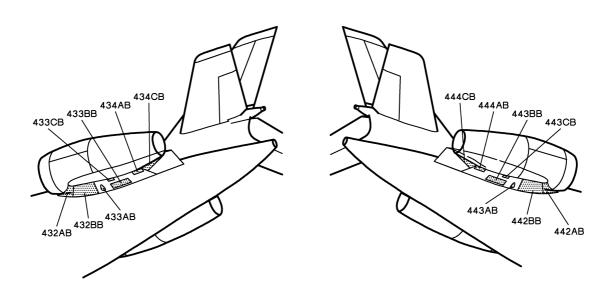
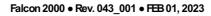


Figure 1: INSPECTION OF NACELLES AND ENGINE PYLONS





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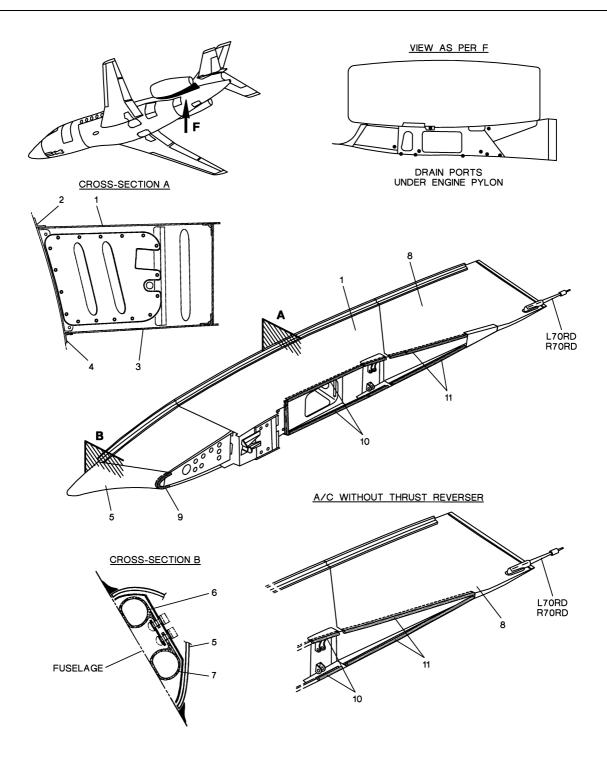


Figure 2: EXTERNAL INSPECTION OF ENGINE PYLONS



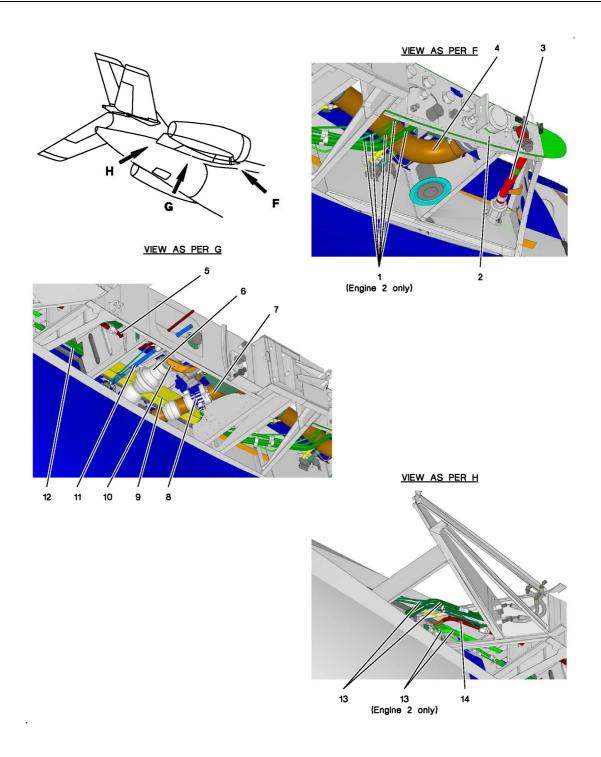


Figure 3: INTERNAL INSPECTION OF ENGINE PYLONS