## PYLON - INTERNAL - INSPECTION/CHECK

*EFFECTIVITY: ALL*

1. General

   A. This section gives the procedures to do the visual inspection of the pylons for general condition.

   B. Related Zones: 414/424.

   C. (Applicable to EMB-145 (ALL) models) Zone Boundaries: STA X = 20971.0 thru STA X = 24534.5.

   (Applicable to EMB-135 (ALL) models) Zone Boundaries: STA X = 17431.0 thru STA X = 20994.5.

   D. 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* |
|---|---|---|
| 05-20-73-200-801-A ♦ | PYLONS - INTERNAL GENERAL VISUAL INSPECTION | ALL |

TASK 05-20-73-200-801-A
*EFFECTIVITY: ALL*

2. PYLONS - INTERNAL GENERAL VISUAL INSPECTION

A. General

(1) This procedure obeys the EWIS ICA requirement.

(2) This task gives instructions to do SMRD Zonal Task 54-Z414-214-001-A00.

(3) You must do the internal general visual inspection (GVI) of pylons, in zones 414/424, at a distance from which you can touch the items that you will examine.

(4) The function of the internal visual inspection (GVI) is to find damage, failure, or irregular conditions that can be easily seen.

(5) After you complete the procedures given in the Zonal Inspection task, you must do a General Visual Inspection (GVI) in all of the specified zones. The inspection must include all installations, components, and structures. Refer to the INTRODUCTION for zonal inspection criteria.

B. References

| *REFERENCE* | *DESIGNATION* |
|---|---|
| AMM MPP 06-43-00/100 | - COMPONENT LOCATION |
| WM 20-22-00 | - |

C. Zones and Accesses

| *ZONE* | *PANEL/DOOR* | *LOCATION* |
|---|---|---|
| 414 | 414AB | Engine pylon |
| 414 | 414BB | Engine pylon |
| 414 | 414CB | Engine pylon |
| 414 | 414DB | Engine pylon |
| 414 | 414EB | Engine pylon |
| 414 | 414FT | Engine pylon |
| 414 | 414GT | Engine pylon |
| 424 | 424AB | Engine pylon |
| 424 | 424BB | Engine pylon |
| 424 | 424CB | Engine pylon |
| 424 | 424DB | Engine pylon |
| 424 | 424EB | Engine pylon |
| 424 | 424FT | Engine pylon |
| 424 | 424GT | Engine pylon |

D. Tools and Equipment

| *ITEM* | *DESCRIPTION* | *PURPOSE* | *QTY* |
|---|---|---|---|
| Standard | Ladder | To get access to the inspection area | |
| Standard | Flashlight | To help in the inspection of the area | |
| Standard | Boroscope | To help in the inspection of the area | |

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 | Pylon |

I. Preparation

*SUBTASK 841-002-A*

(1) On the circuit breaker panel, open the circuit breakers below and attach a DO-NOT-CLOSE tag to them:

- START 1/2.
- THRUST REVERSER 1/2, if applicable.
- FADEC 1A/2A.
- FADEC 1B/2B.

(2) Put the ladder in position.

(3) Open access panels 414AB, 414BB, 414CB, 414DB, 414EB, 414FT, 414GT, 424AB, 424BB, 424CB, 424DB, 424EB, 424FT and 424GT ( AMM MPP 06-43-00/100).

J. Internal General Visual Inspection (Figure 601)

*SUBTASK 214-002-A*

**WARNING: DO NOT TOUCH THE EXHAUST DUCT, AND BLEED-AIR SYSTEM DUCTS OR ITS COMPONENTS IMMEDIATELY AFTER THE ENGINE OR APU STOPS BECAUSE OF THE HEIGHT BLEED AIR TEMPERATURE.**

(1) Examine the pylons internal zone for loosen rivets, nicks, cracks, dents, erosion, corrosion, deformation, deteriorated protective treatment, and foreign objects (Figure 601).

(2) Inside the compartment of access panels 414AB and 424AB, examine the generator electrical harness, FADEC A harness, engine indication harness, and hydraulic lines of engine driven pump for condition, leaks or distortion (Figure 601).

(3) Inside the compartment of access panels 414BB, 414CB, 414FT, 414GT, 424BB, 424CB, 424FT and 424GT, examine the fuel feed line for condition, leaks and distortion, the pneumatic pre-cooler, fan air valve, bleed duct, and fan thermostat for condition, nicks or cracks (Figure 601).

(4) Inside the compartment of access panels 414DB and 424DB, examine bleed pylon duct assembly and engine bleed valve for condition, cracks or leaks (Figure 601).

(5) Inside the compartment of access panels 414EB and 424EB, examine the FADEC B harness and, if applicable, examine the thrust reverser harness for condition and thrust reverser hydraulic tubing for condition, leaks, and distortion (Figure 601).

(6) Using a boroscope, inspect the region of all internal frames after the access panels 414EB and 424EB.

(7) Examine the EWIS components for signs of damage, adequate installation, chafing and general condition. Refer to WM 20-22-00.

K. Follow-on

*SUBTASK 842-002-A*

(1) Close the access panels.

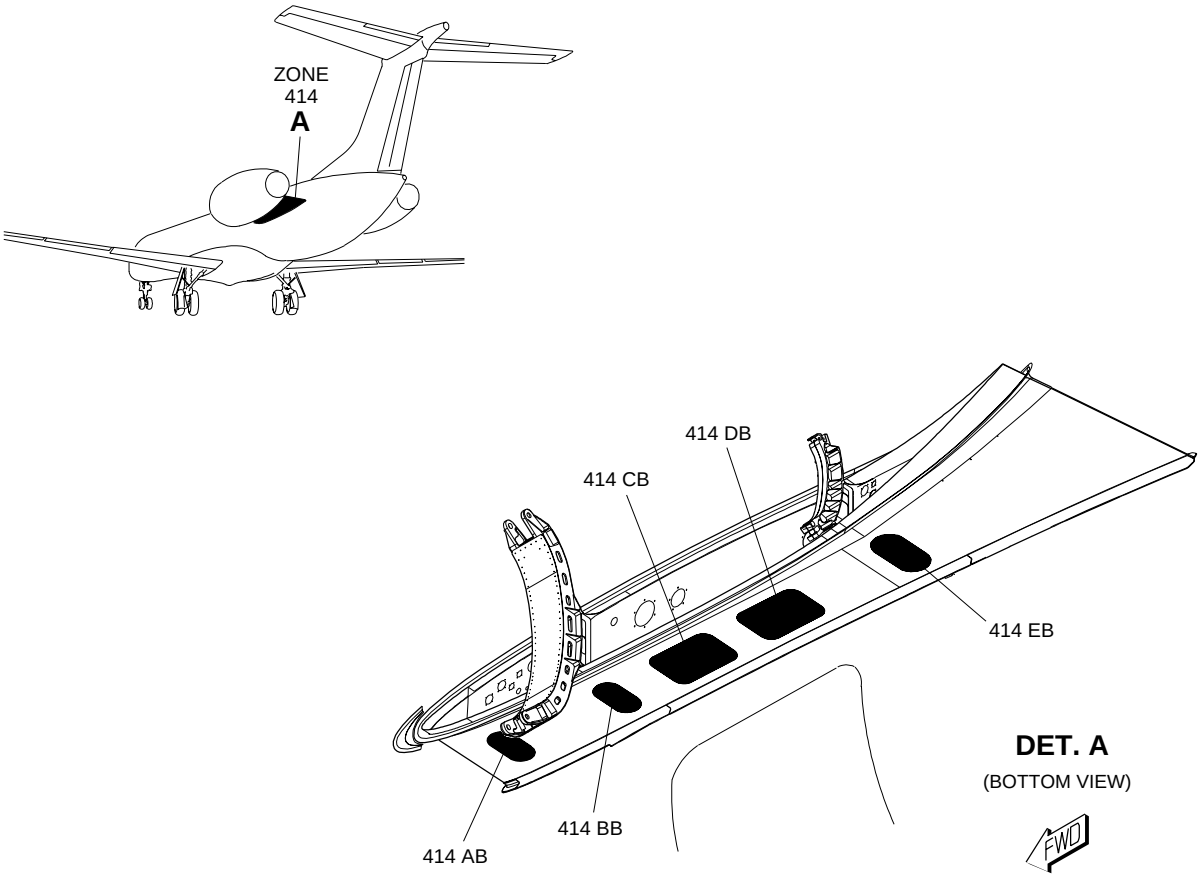
(2) Remove the ladder.

(3) On the circuit breaker panel, close the circuit breakers below and remove the DO-NOT-CLOSE tag from them:

- START 1/2.
- THRUST REVERSER 1/2, if applicable.
- FADEC 1A/2A.
- FADEC 1B/2B.

*EFFECTIVITY: ALL*

Pylons - Internal General Visual Inspection
Figure 601 - Sheet 1

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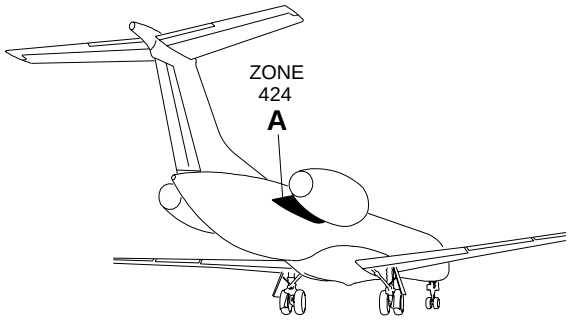
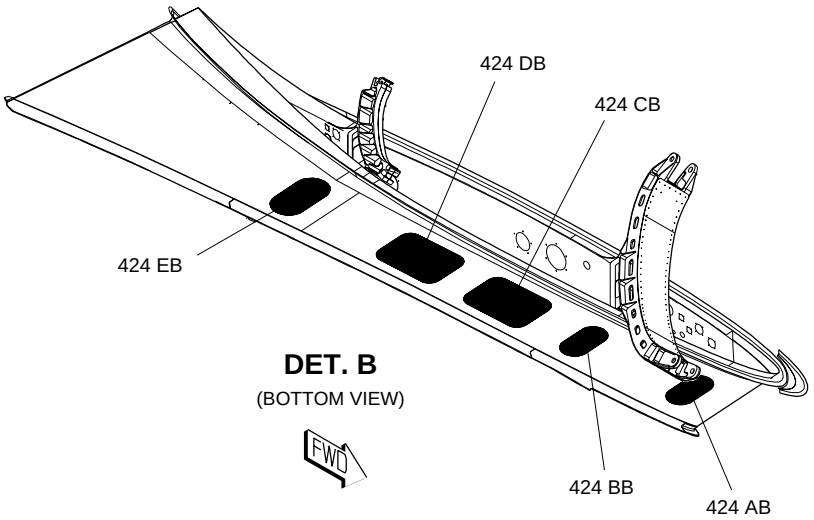
*EFFECTIVITY: ALL*

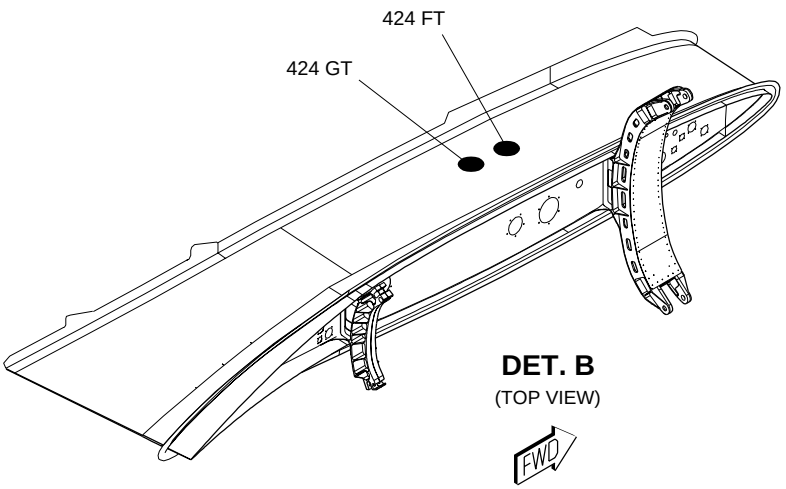
Pylons - Internal General Visual Inspection
Figure 601 - Sheet 2




**DET. B**
(BOTTOM VIEW)




**DET. B**
(TOP VIEW)

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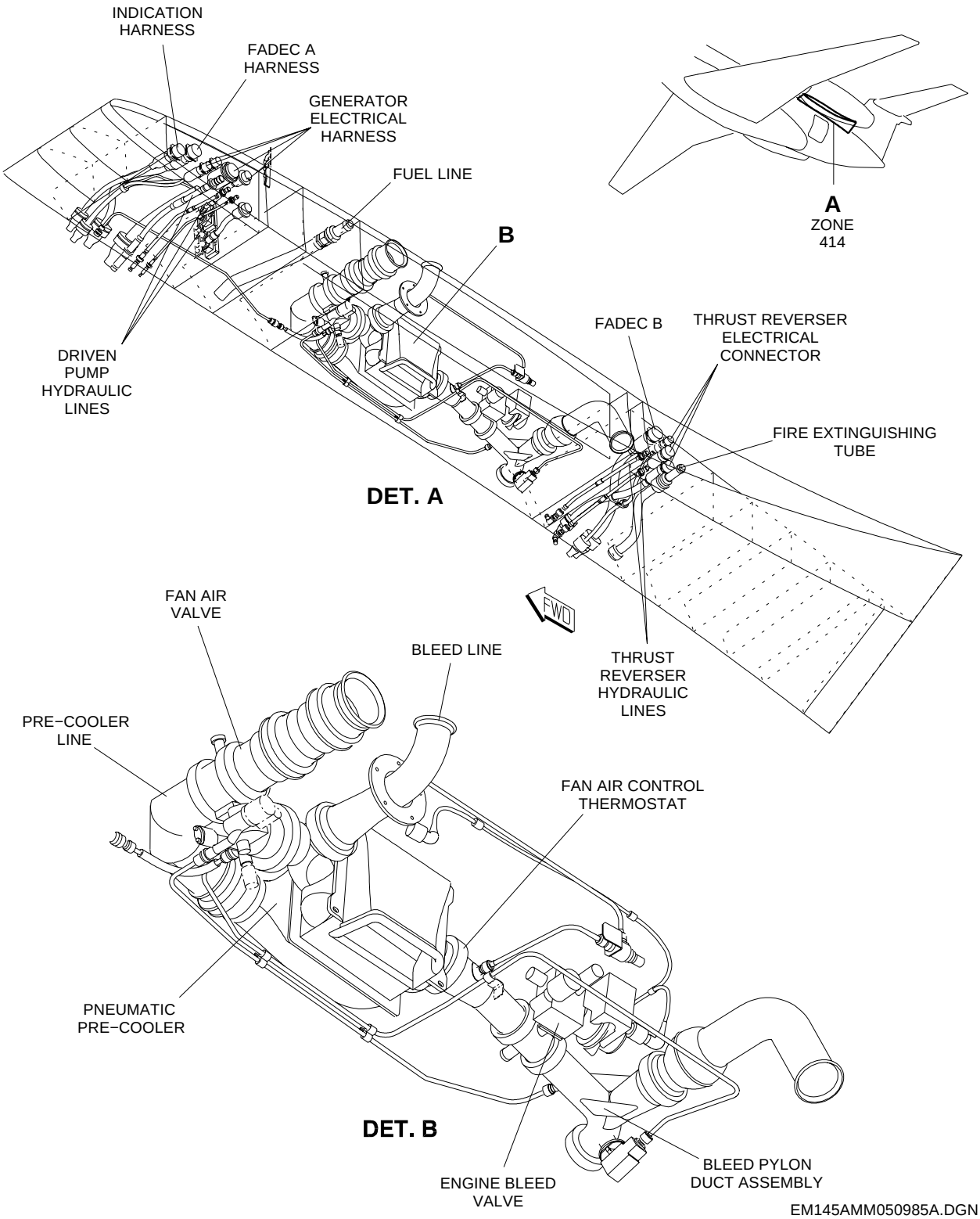
*EFFECTIVITY: ALL*

Pylons - Internal General Visual Inspection
Figure 601 - Sheet 3

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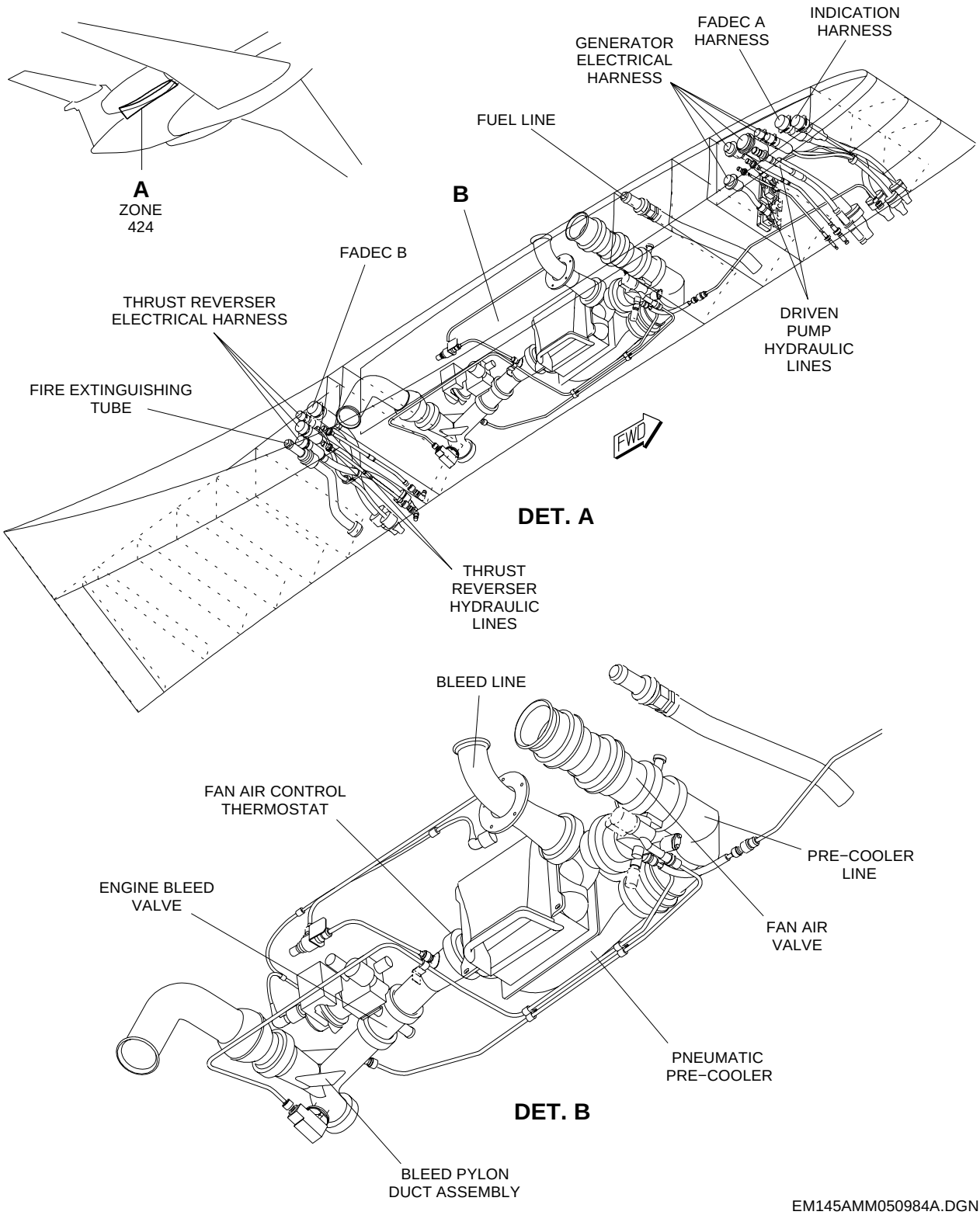
*EFFECTIVITY: ALL*

Pylons - Internal General Visual Inspection
Figure 601 - Sheet 4

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