

AILERON ACTUATOR - INSPECTION/CHECK

EFFECTIVITY: ALL

1. General

- A. This section gives the procedures to do the visual check of the Aileron PCA hoses and Aileron PCA Rod Ends/Fitting Lugs.
- B. 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
27-12-01-200-801-A ♦	AILERON PCA HOSES - GENERAL VISUAL INSPECTION	ALL
27-12-01-200-802-A ♦	AILERON PCA ROD ENDS/FITTING LUGS FOR INTEGRITY AND GENERAL CONDITION - GENERAL VISUAL INSPECTION	ALL

TASK 27-12-01-200-801-A

EFFECTIVITY: ALL

2. AILERON PCA HOSES - GENERAL VISUAL INSPECTION

A. General

- (1) This task gives the procedures to do the visual check of the hoses of the Aileron PCA.
- (2) [Figure 601](#) shows the location of the hoses and the PCA (Power Control Actuator) of the aileron system.

B. References

REFERENCE	DESIGNATION
AMM MPP 06-44-00/100	- COMPONENT LOCATION
AMM TASK 27-12-01-000-801-A/400	AILERON POWER-CONTROL ACTUATOR (PCA) - REMOVAL
AMM TASK 27-12-01-400-801-A/400	AILERON POWER-CONTROL ACTUATOR (PCA) - INSTALLATION

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
551	551CB	Wing lower skin
651	651CB	Wing lower skin
651	551FT	Wing upper skin
651	651FT	Wing upper skin

D. Tools and Equipment

Not Applicable

E. Auxiliary Items

ITEM	DESCRIPTION	PURPOSE	QTY
Commercially available	Inspection mirror	To do an inspection of the hoses	1
Commercially available	Flashlight	To make the lighting condition better for inspection	1

F. Consumable Materials

Not Applicable

G. Expandable Parts

Not Applicable

H. Persons Recommended

QTY	FUNCTION	PLACE
1	Does the task	Wing

I. Preparation

SUBTASK 841-002-A

- (1) Make sure that the aircraft is safe for maintenance.
- (2) Do not do other tasks on the aileron system.
- (3) Remove access doors 551CB, 551FT, 651CB, and 651FT ([AMM MPP 06-44-00/100](#)).

J. Inspect (Visual Inspection) Aileron PCA Hoses ([Figure 601](#))

SUBTASK 212-002-A

WARNING: MAKE SURE THAT AILERON SYSTEMS 1 AND 2 ARE NOT PRESSURIZED.

WARNING: DO NOT OPERATE THE AILERON CONTROL DURING THE STEP BELOW. ATTACH A "DO-NOT-OPERATE-THE-AILERON-CONTROL" TAG TO THE CONTROL YOKE.

- (1) Do a visual inspection on the pressure and return hoses, in the hydraulic lines of the PCA. If the blue braided polyester protection shows signs of tear, damage or leakage, do step (2) below.
- (2) Remove the damaged hose ([AMM TASK 27-12-01-000-801-A/400](#)) and replace it with a new one ([AMM TASK 27-12-01-400-801-A/400](#)).

K. Follow-on

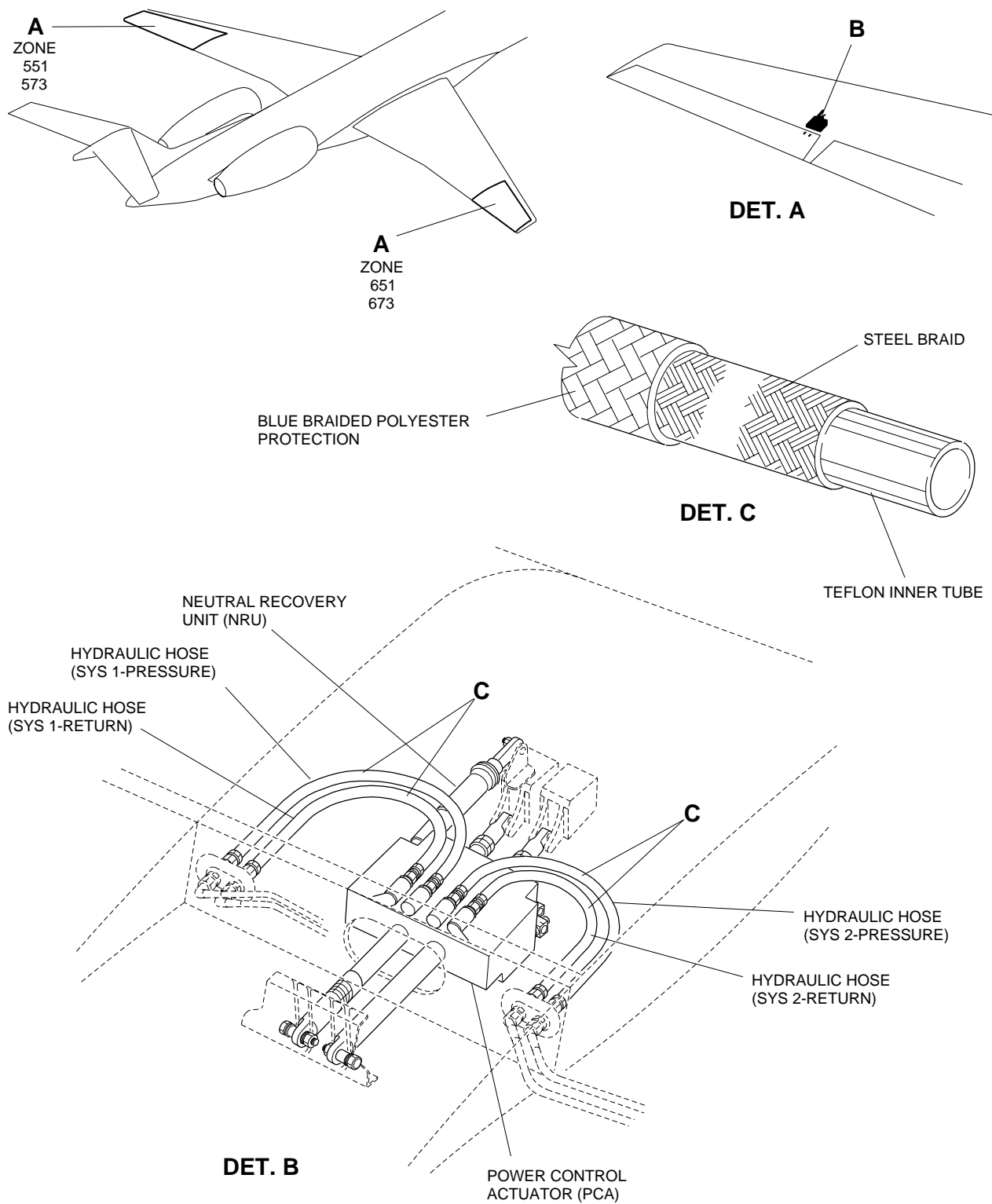
SUBTASK 842-002-A

- (1) Install access doors 551CB, 551FT, 651CB, and 651FT ([AMM MPP 06-44-00/100](#)).

EFFECTIVITY: ALL

Hoses of the Aileron PCA - Inspection

Figure 601



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TASK 27-12-01-200-802-A

EFFECTIVITY: ALL

3. AILERON PCA ROD ENDS/FITTING LUGS FOR INTEGRITY AND GENERAL CONDITION - GENERAL VISUAL INSPECTION

A. General

- (1) This task gives the procedures to do the visual check of the Aileron PCA Rod Ends/Fitting Lugs.

B. References

REFERENCE	DESIGNATION
AMM MPP 06-44-00/100	- COMPONENT LOCATION

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
551	551CB	Wing lower skin
651	651CB	Wing lower skin

D. Tools and Equipment

Not Applicable

E. Auxiliary Items

ITEM	DESCRIPTION	PURPOSE	QTY
Commercially available	Inspection Mirror	To do an inspection in the PCA rod ends/ fitting lugs	1
Commercially available	Flashlight	To do an inspection in the PCA rod ends/ fitting lugs	1

F. Consumable Materials

Not Applicable

G. Expandable Parts

Not Applicable

H. Persons Recommended

QTY	FUNCTION	PLACE
1	Does the task	Wing

I. Preparation

SUBTASK 841-003-A

- (1) Make sure that the aircraft is safe for maintenance.
- (2) Remove access doors 551CB and 651CB ([AMM MPP 06-44-00/100](#)).
- (3) Make sure that the aileron systems are not pressurized.

- J. Inspect (Visual Inspection) Aileron PCA Rod Ends/Fitting Lugs for Integrity and General Condition
SUBTASK 212-003-A

WARNING: • **DO NOT DO OTHER TASKS IN THE AILERON SYSTEM.**

- **MAKE SURE THAT THERE ARE NO PERSONS AND EQUIPMENT IN THE AILERON TRAVEL AREA.**

- (1) Do a visual inspection on the Rod Ends and Fitting Lugs at the points of connection of the aileron surface and PCA for integrity and general condition. Refer to [Figure 602](#).
 - (a) Manually put the aileron trailing edge in the up position to do the inspection from the bottom side.
 - (b) Use a mirror and a flashlight to examine the parts in the aileron interior.
- (2) Do a visual inspection on the Rod Ends and Fitting Lugs at the points of connection of the wing and PCA for integrity and general condition. Refer to [Figure 603](#) and [Figure 604](#).

- K. Follow-on

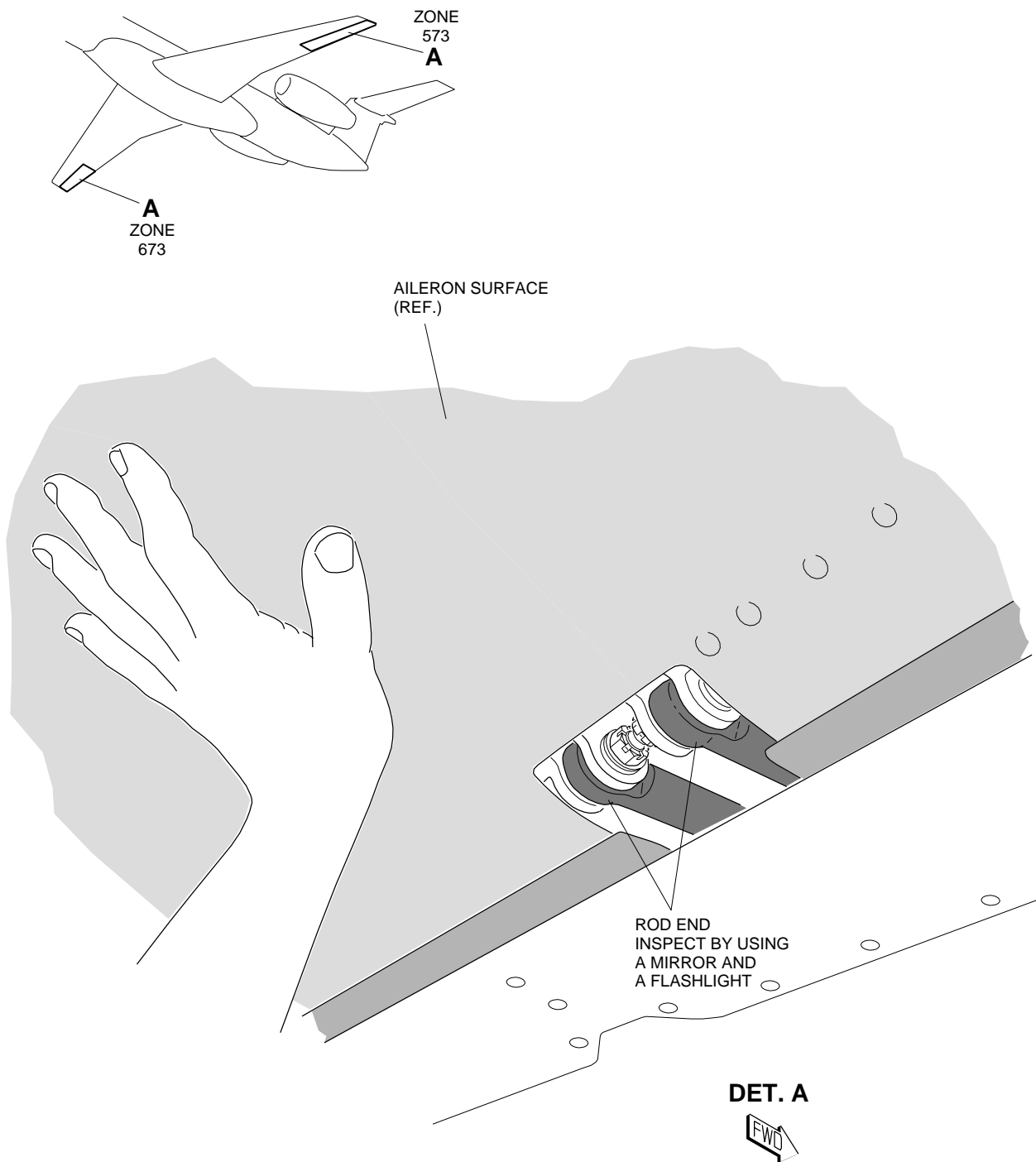
SUBTASK 842-003-A

- (1) Install access doors 551CB and 651CB ([AMM MPP 06-44-00/100](#)).

EFFECTIVITY: ALL

Aileron PCA Rod Ends/Fitting Lugs in the Aileron

Figure 602

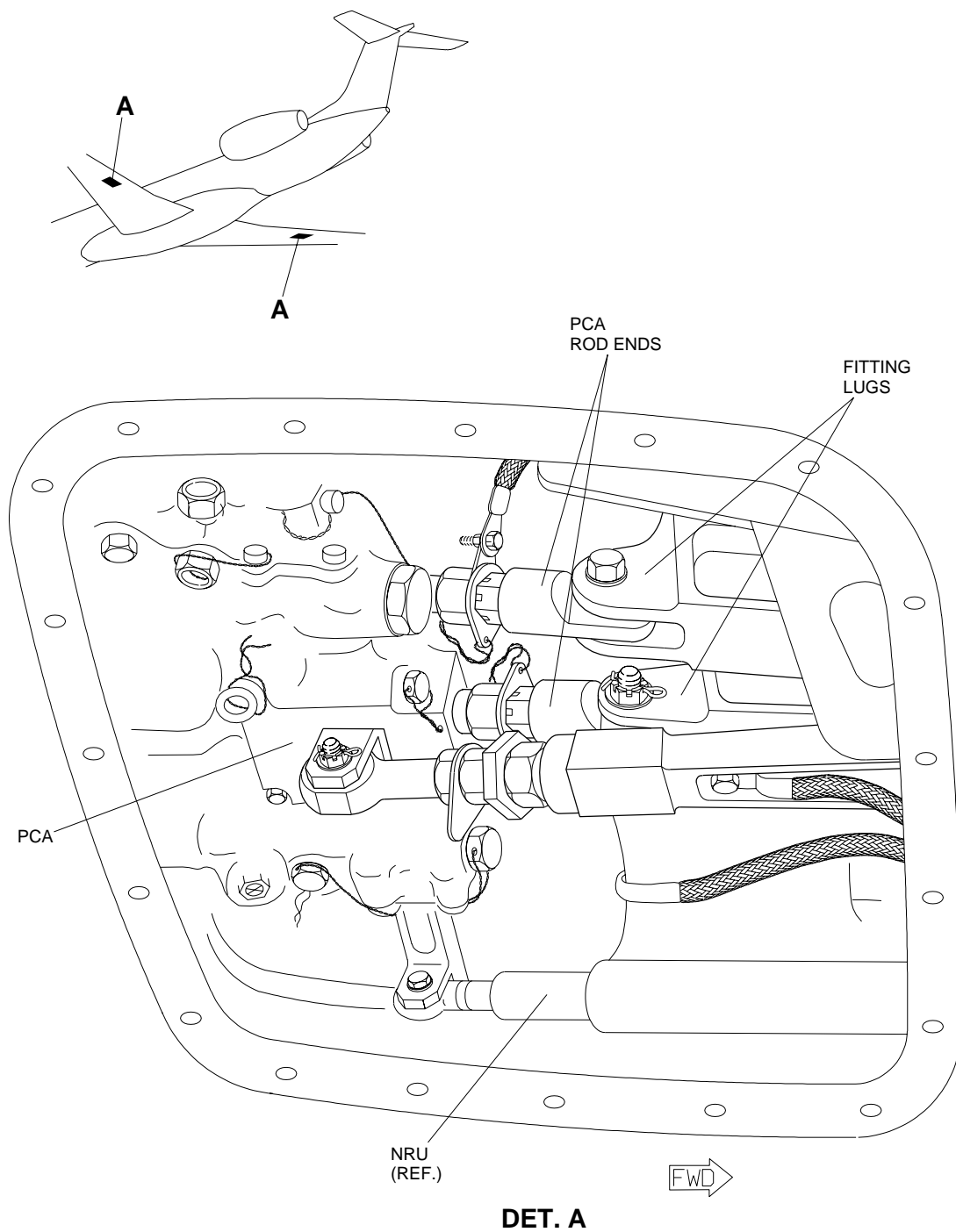


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EFFECTIVITY: AIRCRAFT PRE-MOD. S.B. 145-27-0062

Aileron PCA Rod Ends/Fitting Lugs in the Wing

Figure 603

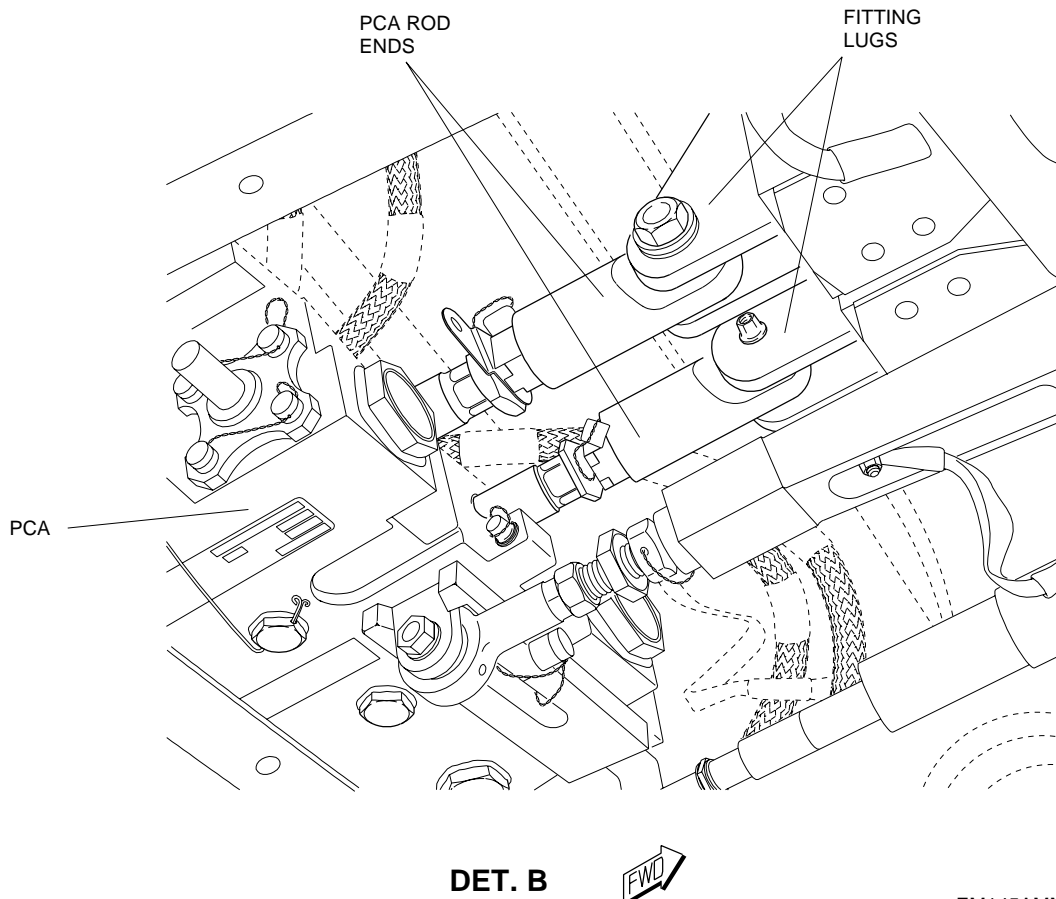
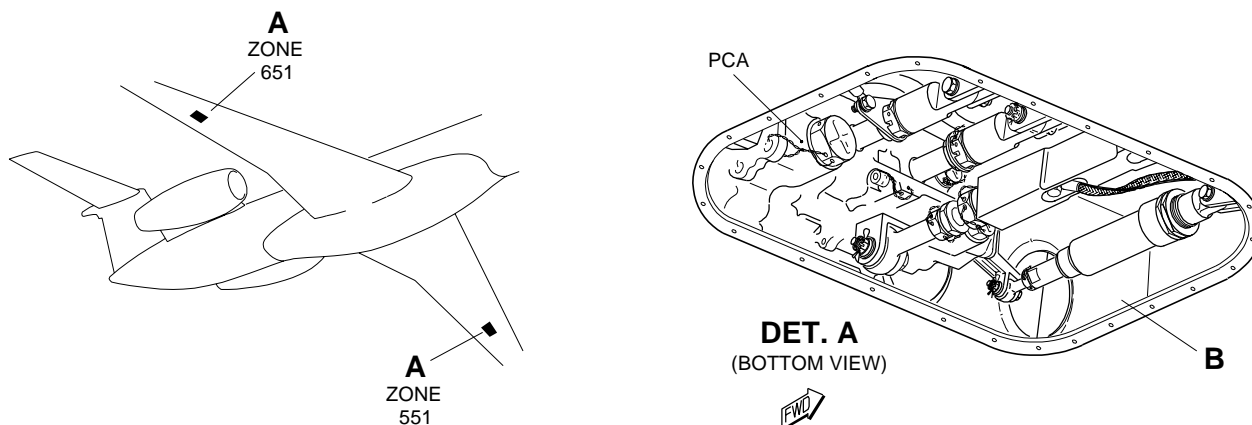


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EFFECTIVITY: AIRCRAFT POST-MOD. S.B. 145-27-0062

Aileron PCA Rod Ends/Fitting Lugs in the Wing

Figure 604



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