



AIRCRAFT MAINTENANCE MANUAL

SPRING TAB AND SERVO TAB - INSPECTION/CHECK

EFFECTIVITY: ALL

1. General

- A. This section gives the procedures to do detailed visual inspections on the servo tab fail-safe actuation link and spring tab attachment link.
- 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
27-31-05-200-801-A ♦	SERVO TAB FAIL-SAFE ACTUATION LINK ALL - DETAILED VISUAL INSPECTION	
27-31-05-200-802-A ♦	SPRING TAB ATTACHMENT LINK - DE- TAILED VISUAL INSPECTION	ALL



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TASK 27-31-05-200-801-A

EFFECTIVITY: ALL

2. SERVO TAB FAIL-SAFE ACTUATION LINK - DETAILED VISUAL INSPECTION

A. General

(1) This task gives the procedures to do an inspection on the servo tab fail-safe actuation link.

B. References

REFERENCE	DESIGNATION
AMM MPP 06-42-00/100	-
AMM TASK 55-14-00-000-801-A/400	HORIZONTAL-STABILIZER ATTACHMENT FAIRING - REMOVAL
AMM TASK 55-14-00-400-801-A/400	HORIZONTAL-STABILIZER ATTACHMENT FAIRING - INSTALLATION

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
335	335DB	Left elevator
335	335EB	Left elevator
336	336DB	Right elevator
336	336EB	Right elevator

D. Tools and Equipment

ITEM	DESCRIPTION	PURPOSE	QTY
GSE 036	Hydraulic platform	To get access to the elevator surface	

E. Auxiliary Items

Not Applicable

F. Consumable Materials

SPECIFICATION (BRAND)	DESCRIPTION	QTY
MEP 09-060	Corrosion-Inhibiting Compound (CA-1000)	AR
MEP 09-075	Corrosion-Inhibiting Compound (COR-BAN 27L)	AR
MS24665-153	Cotter pin	02
MS24665-155	Cotter pin	02

G. Expandable Parts

Not Applicable



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H. Persons Recommended

QTY	FUNCTION	PLACE
1	Does the task	Elevator

I. Preparation

SUBTASK 841-002-A

- (1) Make sure that the aircraft is safe for maintenance.
- (2) Do not do other tasks on the horizontal stabilizer, elevator, and rudder system.
- (3) Get access to the left elevator surface.
- (4) Remove the attachment fairing of the servo tab ([AMM TASK 55-14-00-000-801-A/400](#)).
- (5) Remove access panels 335DB, 335EB, 336DB, and 336EB (AMM MPP 06-42-00/100).

J. Inspect (Detailed Inspection) Servo Tab Fail-safe Actuation Link ([Figure 601](#))

SUBTASK 220-002-A

CAUTION: DO NOT DO OTHER TASKS ON THE HORIZONTAL STABILIZER, ELEVATOR, AND RUDDER SYSTEM TO PREVENT DAMAGE TO THE HORIZONTAL STABILIZER, RUDDER, AND ELEVATOR SURFACES.

- (1) Remove the fail-safe actuation link of the servo tab from the elevator and the servo tab.
 - (a) Release the nut, concentric pin, bushing, and washers to release the fail-safe actuation link from the servo tab.

NOTE: Carefully move away the flexible retention device when you remove the concentric pin. Be careful not to cause damage to the flexible retention device.

- (b) Release the nut, concentric pin, bushing, and washers to release the fail-safe actuation link from the elevator.
- (c) Remove the cotter pin from the concentric pins and discard it.
- (d) Remove the inner shaft from the outer shaft of the concentric pins.

NOTE: After this step, look and identify each pair of outer and inner shafts of the concentric pin set to permit the correct assemblage.

- (2) Remove the dust, grease, oil, sealants, or other contaminations to clean the inner and outer shafts.
- (3) Do an inspection on the inner and outer shaft for distortion and cracks. If you are not sure, do a dye-penetrant inspection.
- (4) Do an inspection on the actuation links of the servo tab surface for structural integrity.
 - (a) Do an inspection on the fail-safe bracket of the servo tab linkage.

- (b) Do an inspection on the fail safe tab arms.

CAUTION: WHEN YOU ASSEMBLE EACH CONCENTRIC PIN SET, MAKE SURE THAT EACH PAIR OF INNER AND OUTER SHAFTS AGREES WITH THE ORIGINAL SET.

- (5) Assemble the set of the concentric pins.

WARNING: CA-1000 OR COR-BAN 27L CORROSION-INHIBITING COMPOUND IS TOXIC TO SKIN, EYES, AND RESPIRATORY TRACT. USE GOGGLES AND PROTECTIVE GLOVES. USE ONLY IN WELL VENTILATED AREAS. OBEY THE MANUFACTURER'S HEALTH AND SAFETY INSTRUCTIONS.

- (a) Apply CA-1000 or COR-BAN 27L to the inner shaft.

- (b) Install the inner shaft on the outer shaft and put the cotter pin.

- (6) Apply CA-1000 or COR-BAN 27L to the concentric pins.

- (7) Install the concentric pins ([Figure 601](#)).

- (8) Do an inspection on the pin retention devices to make sure that they are correctly put at the pin head and pin end. See Figure 601.

- (9) Do steps 1 thru 8 for the servo tab of the right elevator.

K. Follow-on

SUBTASK 842-002-A

- (1) Install access panels 335DB, 335EB, 336DB, and 336EB (AMM MPP 06-42-00/100).

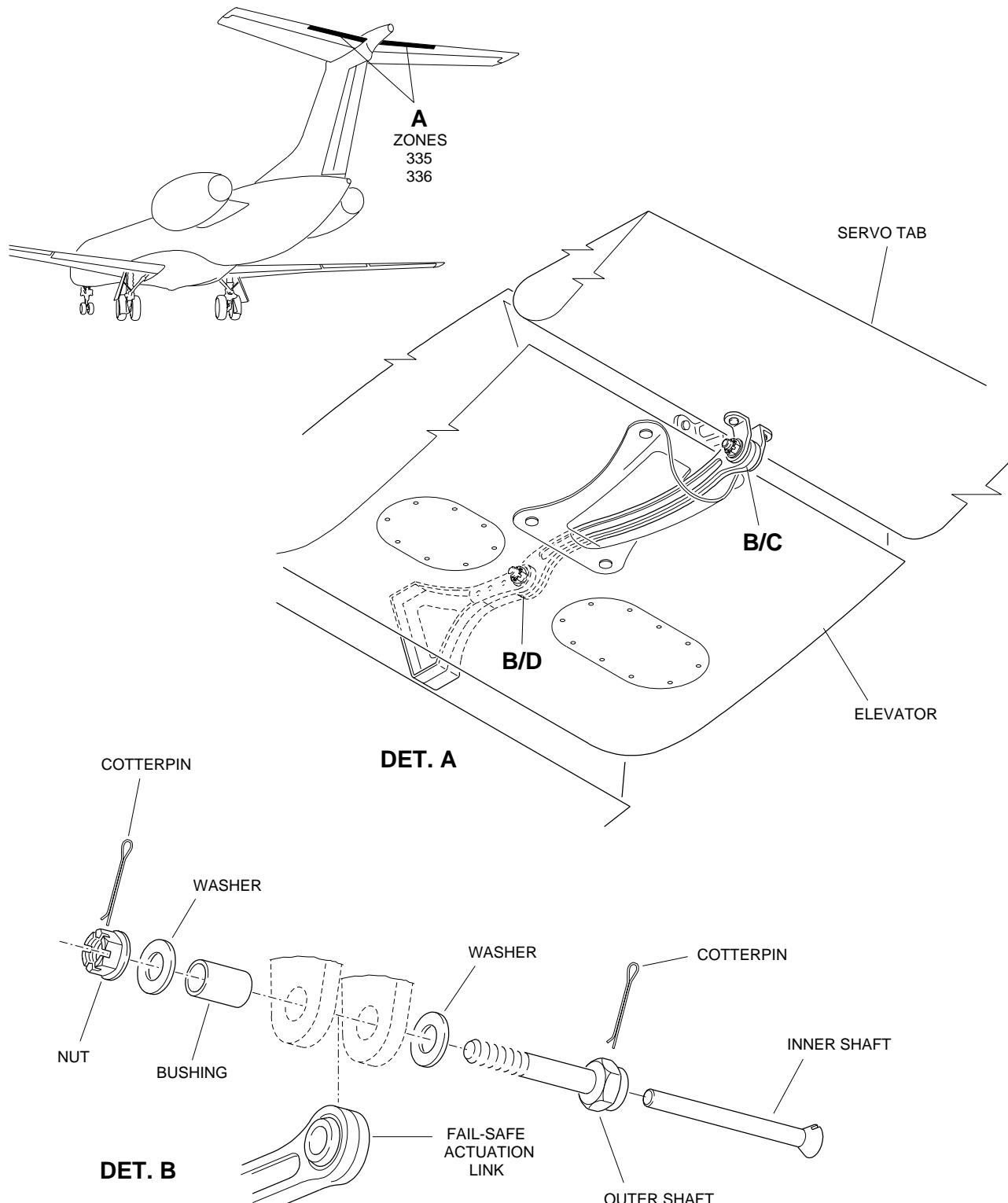
- (2) Install the attachment fairing of the servo tab ([AMM TASK 55-14-00-400-801-A/400](#)).

- (3) Remove platform GSE 036.

EFFECTIVITY: ALL

Servo Tab Fail-safe Actuation Link

Figure 601 - Sheet 1

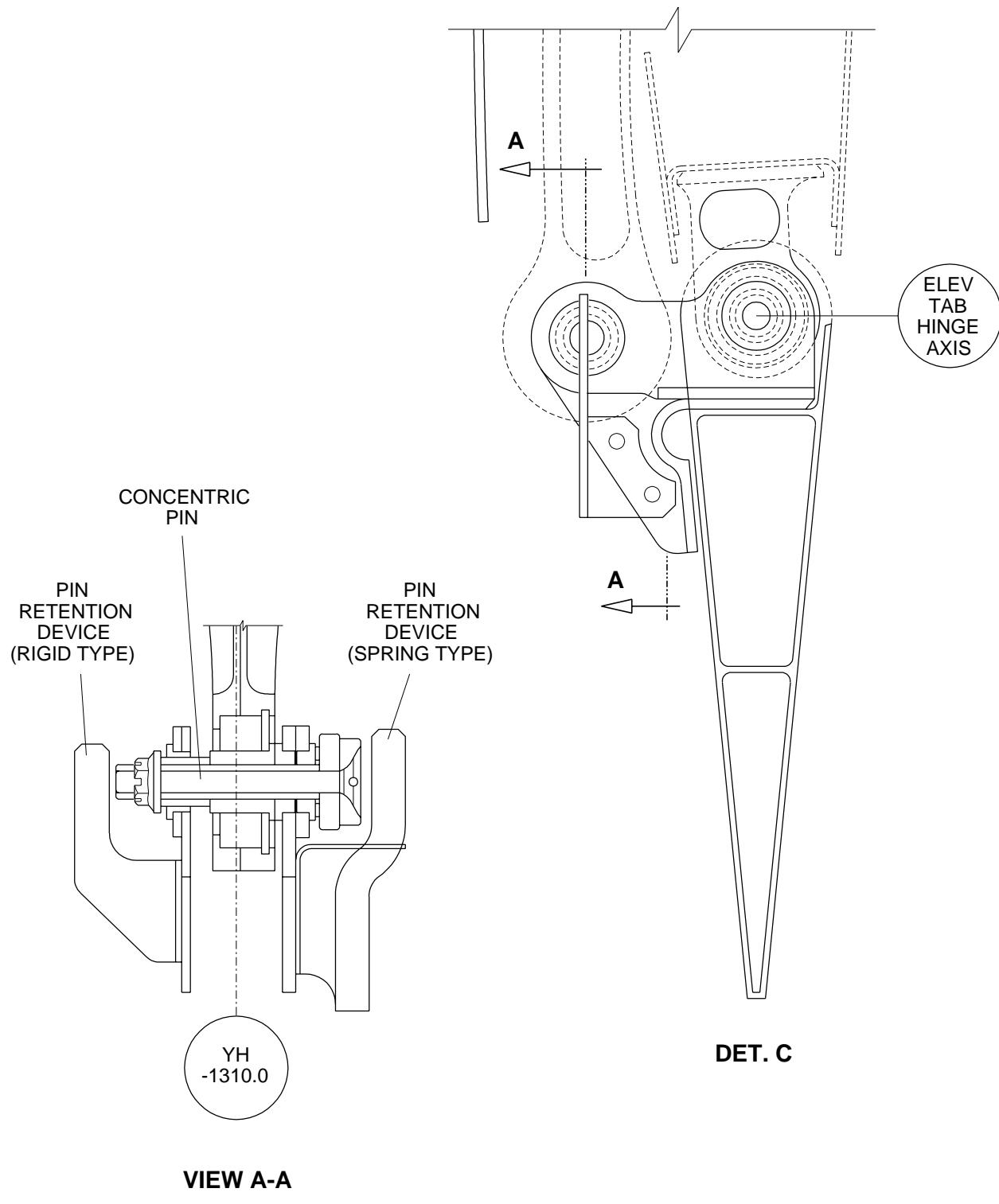


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EFFECTIVITY: ALL

Servo Tab Fail-safe Actuation Link

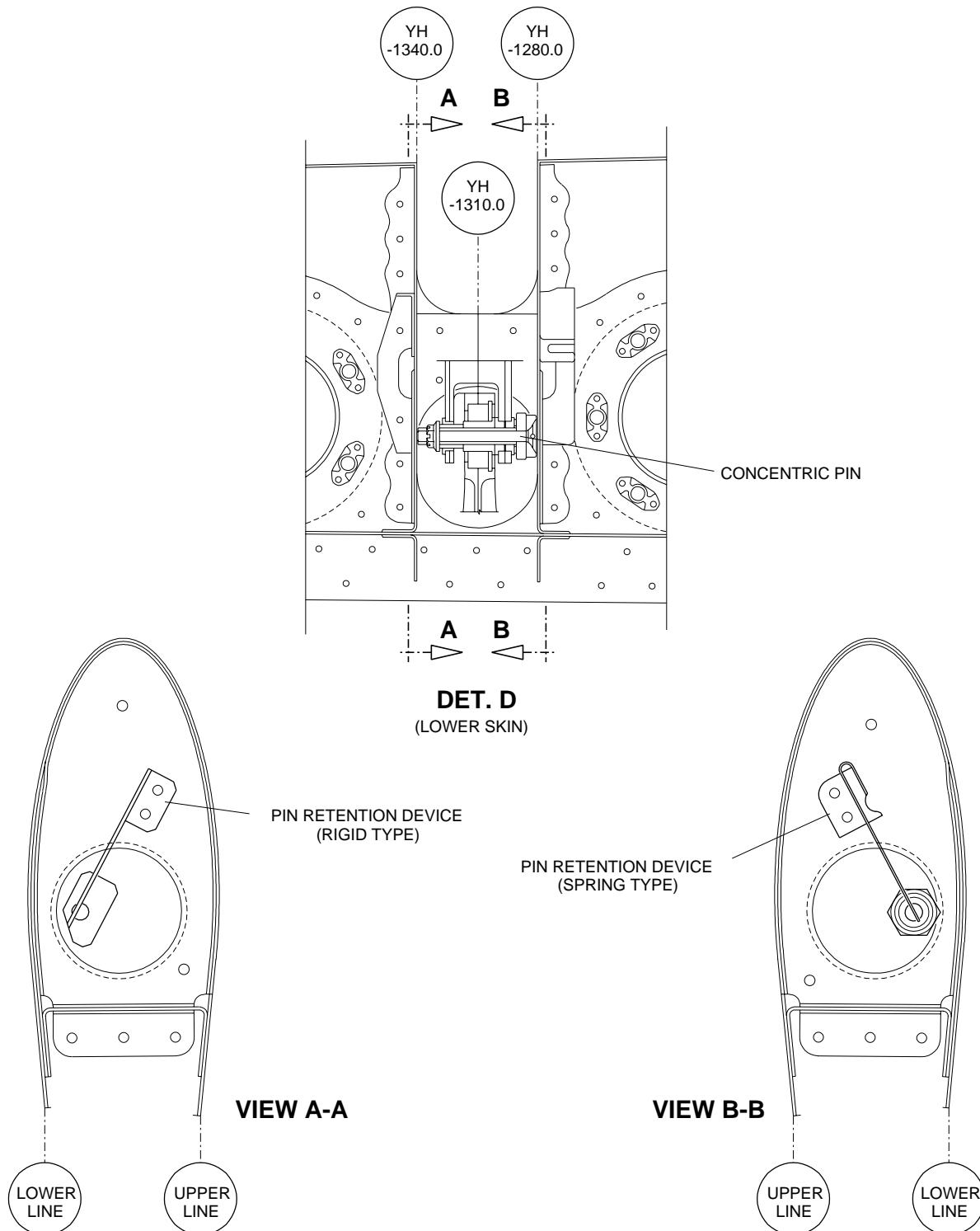
Figure 601 - Sheet 2



EFFECTIVITY: ALL

Servo Tab Fail-safe Actuation Link

Figure 601 - Sheet 3



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TASK 27-31-05-200-802-A

EFFECTIVITY: ALL

3. SPRING TAB ATTACHMENT LINK - DETAILED VISUAL INSPECTION

A. General

(1) This task gives the procedures to do an inspection on the Spring Tab Attachment Link.

B. References

REFERENCE	DESIGNATION
AMM MPP 06-42-00/100	-
AMM TASK 55-14-00-000-801-A/400	HORIZONTAL-STABILIZER ATTACHMENT FAIRING - REMOVAL
AMM TASK 55-14-00-400-801-A/400	HORIZONTAL-STABILIZER ATTACHMENT FAIRING - INSTALLATION

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
335	335AB	Left elevator
336	336AB	Right elevator

D. Tools and Equipment

ITEM	DESCRIPTION	PURPOSE	QTY
GSE 036	Hydraulic platform	To get access to the elevator surface	

E. Auxiliary Items

Not Applicable

F. Consumable Materials

SPECIFICATION (BRAND)	DESCRIPTION	QTY
MS24665-153	Cotter pin	2
MEP 09-060	Non-Chromate Corrosion-Inhibiting Compound (CA-1000-NC)	AR
MEP 09-075	Corrosion-Inhibiting Compound (COR-BAN 27L)	AR

G. Expandable Parts

Not Applicable

H. Persons Recommended

QTY	FUNCTION	PLACE
1	Does the task	Elevator



I. Preparation

SUBTASK 841-003-A

- (1) Make sure that the aircraft is safe for maintenance.
- (2) Do not do other tasks on the horizontal stabilizer, elevator, and rudder system.
- (3) Make sure that the aircraft is not energized.
- (4) Remove access panels 335AB and 336AB (AMM MPP 06-42-00/100).
- (5) Get access to the left elevator surface.
- (6) Remove the attachment fairing of the spring tab ([AMM TASK 55-14-00-000-801-A/400](#)).

J. Inspect (Detailed Inspection) Spring Tab Attachment Link ([Figure 602](#))

SUBTASK 220-003-A

CAUTION: DO NOT DO OTHER TASKS ON THE HORIZONTAL STABILIZER, ELEVATOR, AND RUDDER SYSTEM TO PREVENT DAMAGE TO THE HORIZONTAL STABILIZER, RUDDER, AND ELEVATOR SURFACES.

- (1) Remove the spring tab rods to examine them for corrosion and structural integrity.
 - (a) Release the nut, pin, bushings, and washers to release the adjustable rods from the spring tab.

NOTE: Carefully move away the flexible retention device when you remove the pin. Be careful not to cause damage to the flexible retention device.
 - (b) Release the nut, pin, bushing, and washers to release the rods from the spring tab bellcrank.

NOTE: Carefully move away the flexible retention device when you remove the pin. Be careful to prevent damage to the flexible retention device.
 - (c) Do an inspection on the pins for structural integrity and corrosion.
- (2) Do an inspection on the adjustable rods of the spring tab surface for structural integrity and corrosion.
 - (a) Do an inspection on the tab arm for structural integrity.
 - (b) Do an inspection on the spring tab bellcrank for structural integrity.
- (3) Do an inspection on the torsion bar for structural integrity and corrosion.

WARNING: CA-1000 OR COR-BAN 27L CORROSION-INHIBITING COMPOUND IS TOXIC TO SKIN, EYES, AND RESPIRATORY TRACT. USE GOGGLES AND PROTECTIVE GLOVES. USE ONLY IN WELL VENTILATED AREAS. OBEY THE MANUFACTURER'S HEALTH AND SAFETY INSTRUCTIONS.

- (4) Apply CA-1000 or COR-BAN 27L as shown in [Figure 602](#).
- (5) Install the spring tab rods. Use pin, bushings, washers, nut, and cotter pin.



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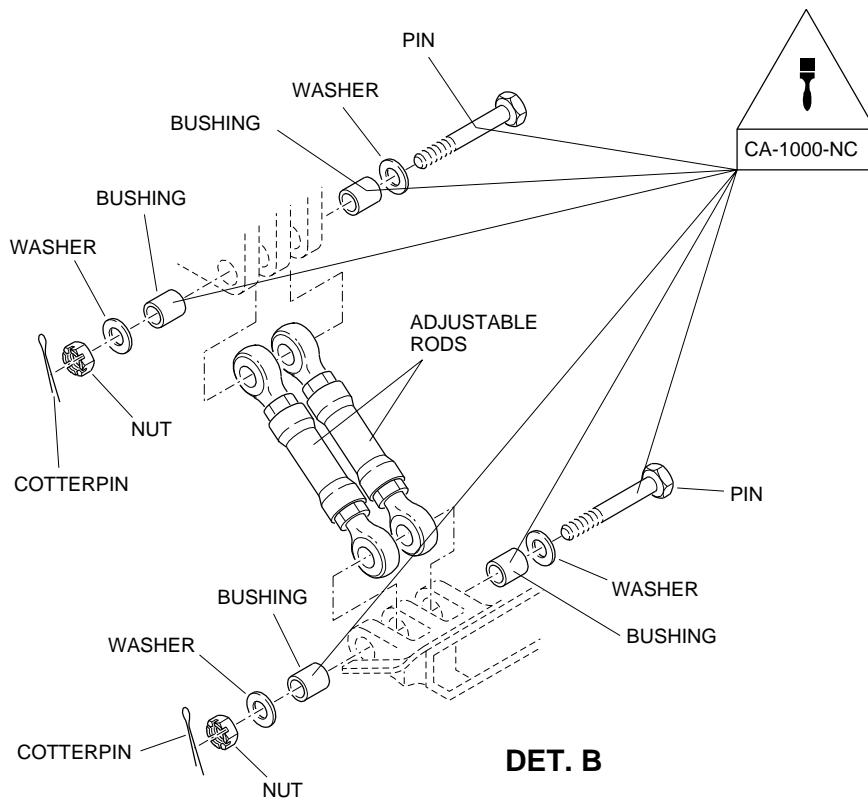
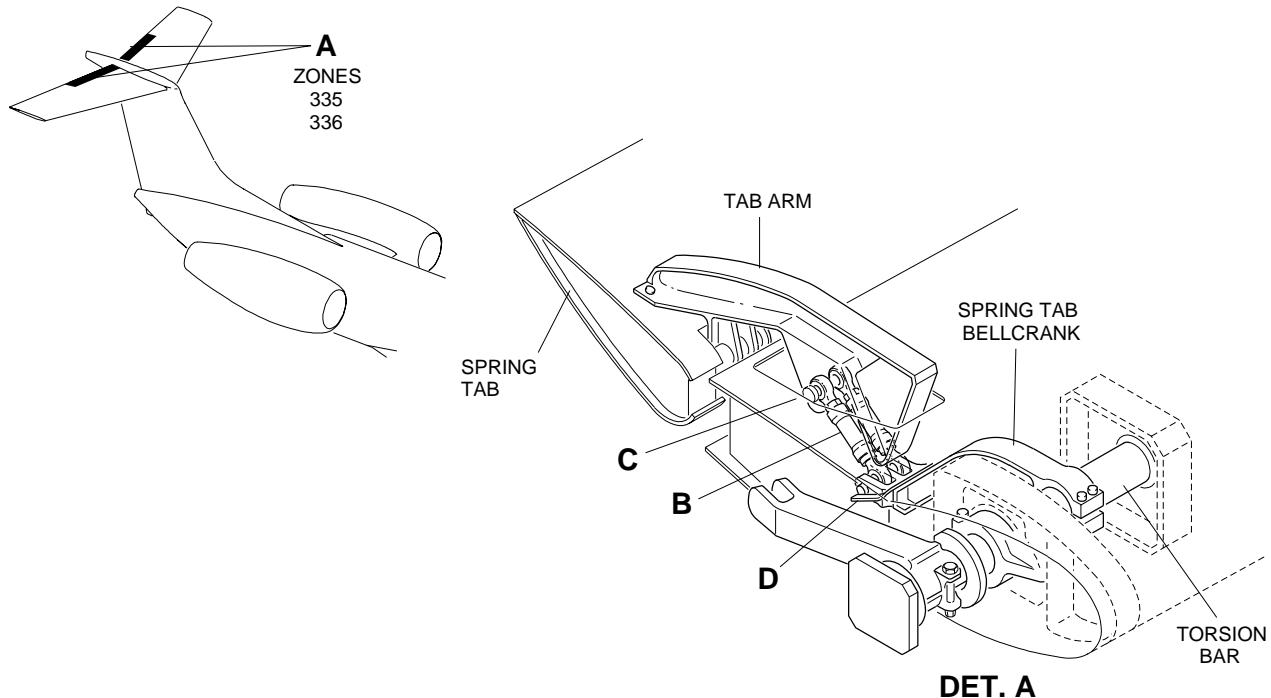
- (6) Do an inspection on the pin retention devices to make sure that they are correctly installed at the pin head and pin end.
- (7) Do an inspection on the linkage of the spring tab to the tab arm for structural integrity.
- (8) Do steps 1 thru 6 for the spring tab of the right elevator.

K. Follow-on

SUBTASK 842-003-A

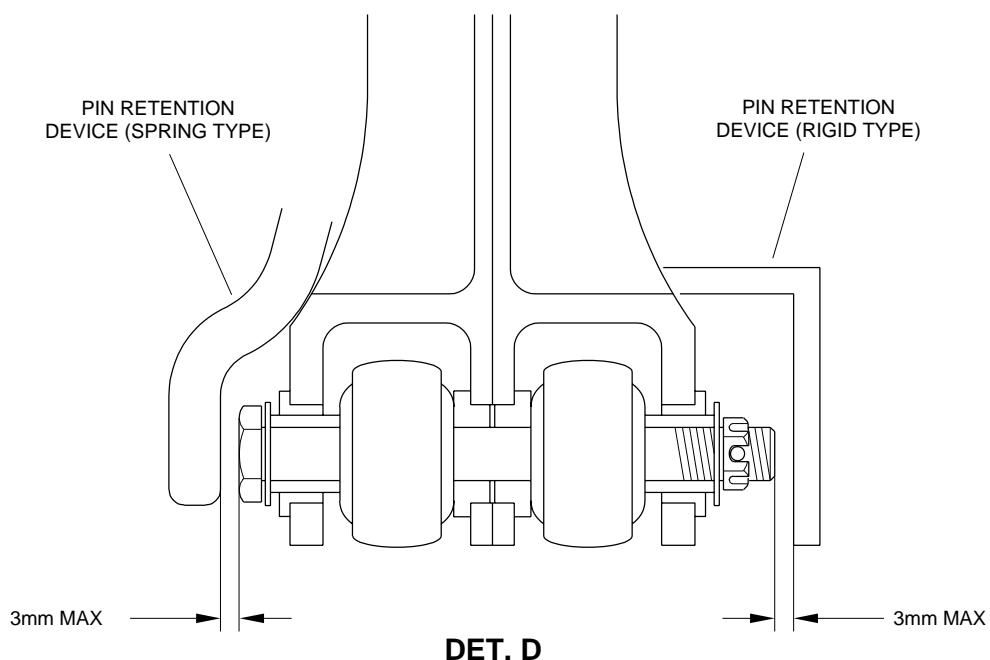
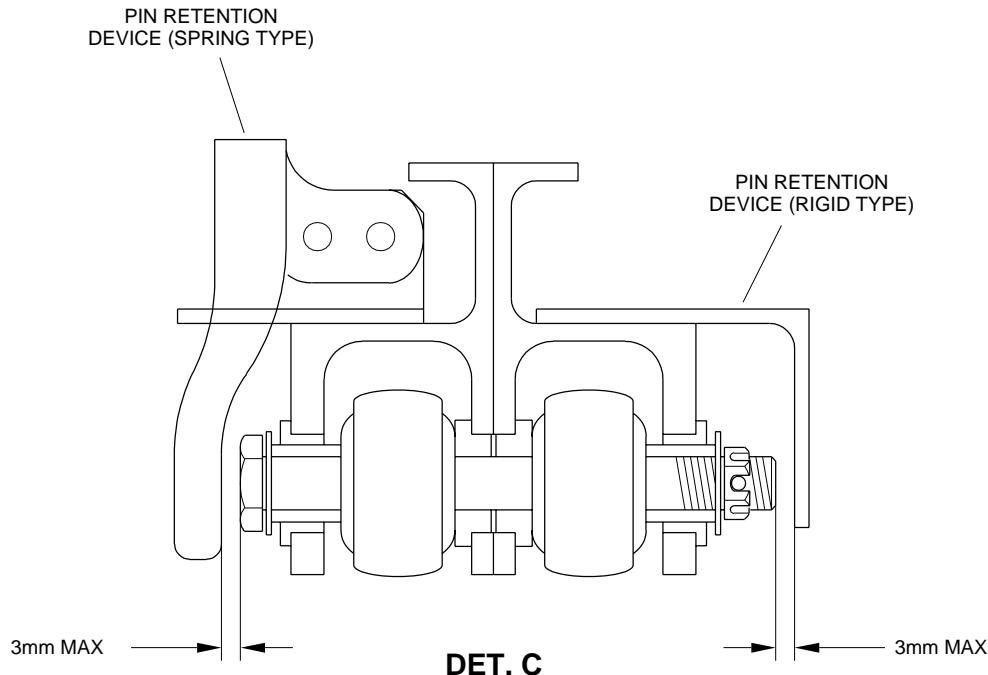
- (1) Install access panels 335AB and 336AB (AMM MPP 06-42-00/100).
- (2) Install the attachment fairing of the spring tab ([AMM TASK 55-14-00-400-801-A/400](#)).
- (3) Remove GSE 036.

EFFECTIVITY: ALL
 Spring Tab Attachment Link
 Figure 602 - Sheet 1



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EFFECTIVITY: ALL
 Spring Tab Attachment Link
 Figure 602 - Sheet 2



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