

HORIZONTAL STABILIZER COURSE LIMITER PIN - REMOVAL/INSTALLATION

EFFECTIVITY: ALL

1. General

- A. This section gives the procedures to remove and install the course limiter pin.
- 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
55-16-00-000-801-A	COURSE LIMITER PIN - REMOVAL	ALL
55-16-00-400-801-A	COURSE LIMITER PIN - INSTALLATION	ALL

TASK 55-16-00-000-801-A

EFFECTIVITY: ALL

2. COURSE LIMITER PIN - REMOVAL

A. General

(1) This task gives the procedures to disassemble the course limiter pin.

B. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
337	337 AZ/BZ/CZ	Horizontal Stabilizer

C. Tools and Equipment

ITEM	DESCRIPTION	PURPOSE	QTY
GSE 145	Lifter, Horizontal Stabilizer	To support the horizontal stabilizer	
GSE 271	Puller-Hinge Pin, Stabilizer	To remove the horizontal stabilizer hinge pin	
Commercially available	Hydraulic hoist	To tension the horizontal stabilizer	

D. Auxiliary Items

ITEM	DESCRIPTION	PURPOSE	QTY
Commercially available	Drive Punch	To push the tubular spring pin from the catch	

E. Consumable Materials

Not Applicable

F. Expandable Parts

Not Applicable

G. Persons Recommended

QTY	FUNCTION	PLACE
2	Do the task	Horizontal Stabilizer

H. Preparation

SUBTASK 841-002-A

- (1) On the circuit breaker panel, open the pitch trim 1 circuit breaker and attach a DO-NOT-CLOSE tag to it.
- (2) On the left electrical power control/distribution box, open the pitch trim 1 circuit breaker and attach a DO-NOT-CLOSE tag to it.
- (3) On the right electrical power control/distribution box, open the pitch trim 2 circuit breaker and attach a DO-NOT-CLOSE tag to it.

- (4) Put a DO-NOT-OPERATE-THE-HORIZONTAL-STABILIZER sign on the pitch trim panel, in the cockpit.
- (5) Install the horizontal stabilizer lifter GSE 145 and keep it under tension with the hydraulic hoist.

I. Removal [\(Figure 401\)](#)

SUBTASK 020-002-A

- (1) Remove the cotter pin (3), as applicable.
- (2) Lift the catch (8) with a pair of pliers (1) until the course limiter pin (6) leaves the groove of the hinge pin bolt.

NOTE: Remove one horizontal-stabilizer hinge-pin assembly at a time to avoid displacement of the horizontal stabilizer.

- (3) Remove the castellated nut (4), as applicable, that holds the hinge pin assembly.
- (4) Remove the washers (2), as applicable.

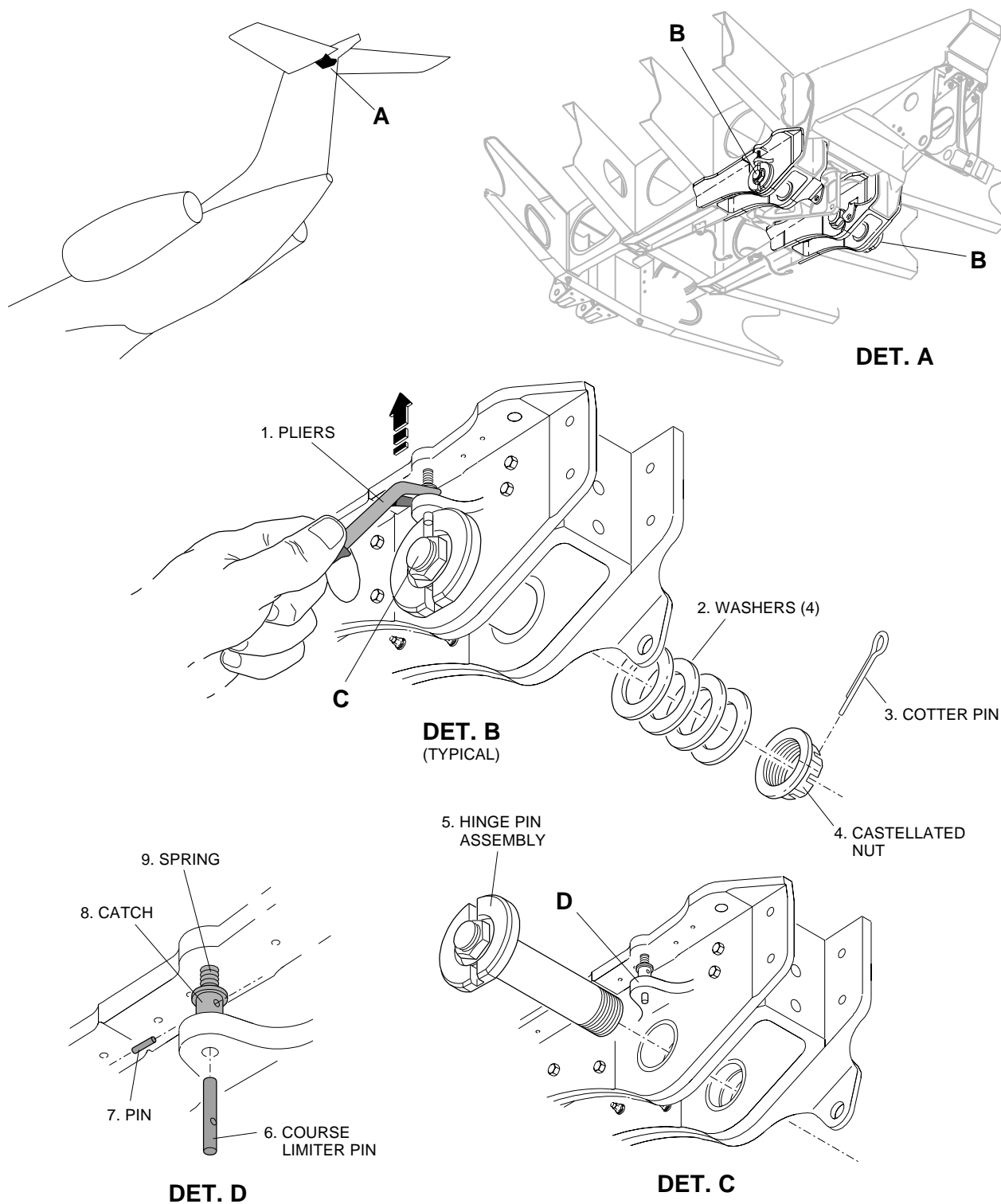
CAUTION: THE BUSHINGS ARE NOT FIXED IN THE HOLES. BE CAREFUL NOT TO LOSE THEM DURING THE HINGE PIN ASSEMBLY REMOVAL.

- (5) Pull the hinge pin assembly (5).
- (6) Push and remove the tubular spring pin (7) with a drive punch.
- (7) Remove the course limiter pin (6).

EFFECTIVITY: ALL

Course Limiter Pin - Removal/Installation

Figure 401



EM145AMM550100A.DGN

TASK 55-16-00-400-801-A
EFFECTIVITY: ALL

3. COURSE LIMITER PIN - INSTALLATION

A. General

(1) This task gives the procedures to assemble the course limiter pin.

B. References

REFERENCE	DESIGNATION
AMM TASK 55-10-00-400-801-A/400	HORIZONTAL STABILIZER - INSTALLATION

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
337	337 AZ/BZ/CZ	Horizontal Stabilizer

D. Tools and Equipment

ITEM	DESCRIPTION	PURPOSE	QTY
GSE 145	Lifter, Horizontal Stabilizer	To support the horizontal stabilizer	
Commercially available	Hydraulic hoist	To tension the horizontal stabilizer	

E. Auxiliary Items

ITEM	DESCRIPTION	PURPOSE	QTY
Commercially available	Torque Wrench (0-700 lb.in)	To torque the castellated nuts	

F. Consumable Materials

Not Applicable

G. Expandable Parts

Not Applicable

H. Persons Recommended

QTY	FUNCTION	PLACE
2	Do the task	Horizontal Stabilizer

I. Installation (Figure 401)

SUBTASK 420-002-A

- (1) Insert the spring (9) and the catch (8) in the indicated fitting.
- (2) Insert the course limiter pin (6) inside the spring and catch
- (3) Install the tubular spring pin (7) in the holes of the catch and course limiter pin.

- (4) Lift the catch with a pair of pliers (1).
- (5) Push the stabilizer hinge pin assembly (5).
- (6) Refer to [AMM TASK 55-10-00-400-801-A/400](#) to tighten the castellated nut (4), as applicable, that holds the hinge pin assembly.
- (7) Install the cotter pin (3), as applicable.

NOTE: It is not necessary that the course limiter pin be exactly in the groove of the stabilizer hinge pin assembly. Because of adjustment tolerances of the course limiter pin, it is possible that the course limiter pin be more outboard than the hinge pin assembly groove.

J. Follow -on

SUBTASK 842-002-A

- (1) Remove the horizontal Stabilizer lifter GSE 145 and the hydraulic hoist.
- (2) On the circuit breaker panel, close the pitch trim 1 circuit breaker and remove the DO-NOT-CLOSE tag from it.
- (3) On the left electrical power control/distribution box, close the pitch trim 1 circuit breaker and remove the DO-NOT-CLOSE tag from it.
- (4) On the right electrical power control/distribution box, close the pitch trim 2 circuit breaker and remove the DO-NOT-CLOSE tag from it.
- (5) Remove the DO-NOT-OPERATE-THE-HORIZONTAL-STABILIZER sign from the pitch trim panel, in the cockpit.