

WING SECTORS - REMOVAL/INSTALLATION

EFFECTIVITY: ALL

1. General

- A. This section gives the procedures to remove and install the wing sectors of the aileron control system.
- B. These procedures are applicable to the LH and RH wing sectors.
- C. 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
27-11-04-000-801-A	WING SECTOR - REMOVAL	ALL
27-11-04-400-801-A	WING SECTOR - INSTALLATION	ALL

TASK 27-11-04-000-801-A

EFFECTIVITY: ALL

2. WING SECTOR - REMOVAL

A. General

- (1) This procedure gives the instructions to remove the wing sector of the aileron control system.

B. References

REFERENCE	DESIGNATION
AMM MPP 06-44-00/100	- COMPONENT LOCATION
AMM TASK 29-10-00-860-801-A/200	HYDRAULIC SYSTEM - PRESSURIZATION WITH HTS

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
551	551CB	LH wing
551	551DB	LH wing
651	651BB	RH wing
651	651CB	RH wing

D. Tools and Equipment

ITEM	DESCRIPTION	PURPOSE	QTY
GSE 058	Kit, rig pins, flight controls	To lock the aileron control system in the neutral position	

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	LH or RH wing
1	Helps the other technician	LH or RH wing

I. Preparation

SUBTASK 841-002-A

- (1) Remove access panels 551CB, 551DB, 651BB, and 651CB ([AMM MPP 06-44-00/100](#)).
- (2) Install the rig pins to the aileron control system to lock it in the neutral position.
- (3) Fully release the hydraulic pressure in the aileron hydraulic lines ([AMM TASK 29-10-00-860-801-A/200](#)).

J. Removal ([Figure 401](#))

SUBTASK 020-002-A

- (1) Disconnect the end of the bonding strap (15) from the sector (21). For this, remove the nut (18), washers (17), (16), (19), and (4), and bolt (3).
- (2) Disconnect the end of the rod (26) from the support (1) at the aileron actuator. For this, remove the cotter pin (28), nut (27), washer (29), washer (2), and bolt (6).
- (3) Release the tension on the control cables (20) and (24), and disconnect them from the cable circuit in the fuselage.

NOTE: Identify the positions of the control cables (20) and (24) to install them again in the same positions.

- (4) Remove the cotter pin (7), nut (8), washer (9), bushing (10), washer (13), and bolt (14).
- (5) Pull the sector (21) out of the support (11) at the wing structure.

NOTE: If necessary, remove the cable guard (12).

- (6) Disconnect the ends of the control cables (20) and (24) from the sector (21). For this, remove the cotter pin (23) and pin (22), and cotter pins (25) and (5).

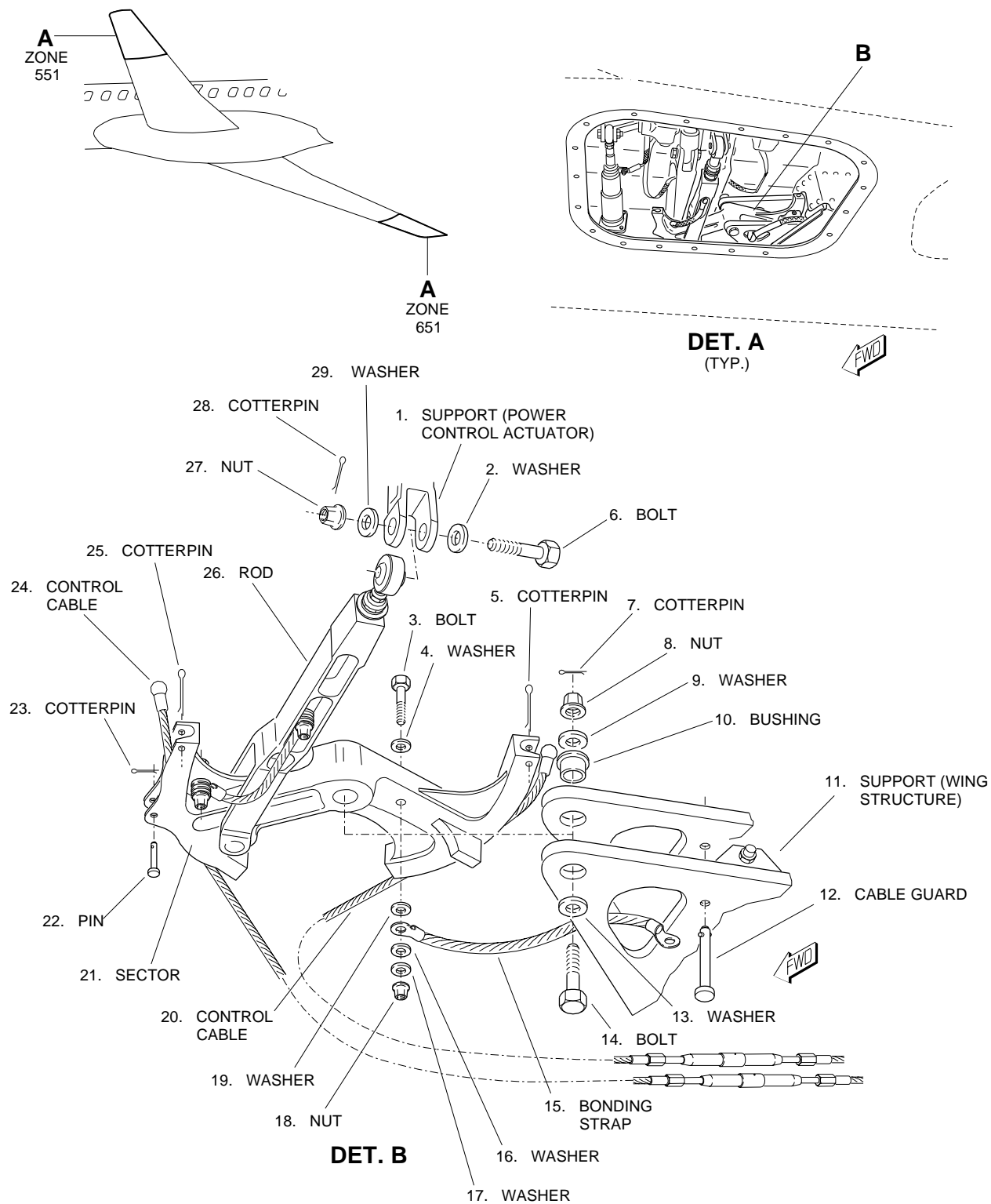
NOTE: Identify the positions of the control cables (20) and (24) to install them again in the same positions.

- (7) Remove the sector (21).

EFFECTIVITY: ALL

Wing Sector - Removal/Installation

Figure 401



EM145AMM270940A.DGN

TASK 27-11-04-400-801-A
EFFECTIVITY: ALL

3. WING SECTOR - INSTALLATION

A. General

(1) This procedure gives the instructions to install the wing sector of the aileron control system.

B. References

REFERENCE	DESIGNATION
AMM MPP 06-44-00/100	- COMPONENT LOCATION
AMM TASK 20-13-21-910-801-A/200	TYPES OF ELECTRICAL BONDING AND SURFACE PREPARATION - STANDARD PROCEDURES
AMM TASK 27-10-00-700-801-A/500	AILERON ADJUSTMENT AND CHECK
AMM TASK 27-11-01-700-801-A/500	-
AMM TASK 29-10-00-860-801-A/200	HYDRAULIC SYSTEM - PRESSURIZATION WITH HTS

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
551	551CB	LH wing
551	551DB	LH wing
651	651BB	RH wing
651	651CB	RH wing

D. Tools and Equipment

ITEM	DESCRIPTION	PURPOSE	QTY
GSE 058	Kit, rig pins, flight controls	To lock the aileron control system in the neutral position	

E. Auxiliary Items

Not Applicable

F. Consumable Materials

SPECIFICATION (BRAND)	DESCRIPTION	QTY
MS24665-134	Cotter pin	2
MS24665-170	Cotter pin	1
MS24665-300	Cotter pin	1

G. Expandable Parts

Not Applicable

H. Persons Recommended

QTY	FUNCTION	PLACE
1	Does the task	LH or RH wing
1	Helps the other technician	LH or RH wing

I. Installation (Figure 401)

SUBTASK 420-002-A

- (1) Connect the ends of the control cables (20) and (24) to the sector (21) and install the pin (22) and cotter pin (23), and cotter pins (25) and (5).

NOTE: The control cables (20) and (24) must be installed in the same positions as those they were removed from. Refer to their position identification.

- (2) Put the sector (21) in the support (11).
- (3) Install the bolt (14), washer (13), bushing (10), washer (9), nut (8), and cotter pin (7).
- (4) Connect the end of the bonding strap (15) to the sector (21) with the bolt (3), washers (4), (19), (16), and (17), and nut (18).

NOTE: Refer to [AMM TASK 20-13-21-910-801-A/200](#) for the correct installation of the bonding strap (15).

- (5) Connect the end of the rod (26) to the support (1) at the aileron actuator with the bolt (6), washers (2) and (29), nut (27), and cotter pin (28).
- (6) Install the cable guard (12) (if applicable).
- (7) Connect the control cables (20) and (24) to the cable circuit in the fuselage.

NOTE: The control cables (20) and (24) must be installed in the same positions as those they were removed from. Refer to their position identification.

J. Follow-on

SUBTASK 842-002-A

- (1) Apply tension to the control cables of the aileron control system (AMM TASK 27-11-01-700-801-A/500).
- (2) Remove the rig pins from the aileron control system.
- (3) Pressurize the aileron hydraulic lines ([AMM TASK 29-10-00-860-801-A/200](#)).
- (4) Do a check on the aileron control system ([AMM TASK 27-10-00-700-801-A/500](#)).
- (5) Install access panels 551CB, 551DB, 651BB, and 651CB ([AMM MPP 06-44-00/100](#)).