



EMB145 - EMB135

AIRCRAFT
MAINTENANCE MANUAL

TAIL NAVIGATION LIGHTS SUPPORT/VIBRATION ISOLATION MOUNTS - REMOVAL/INSTALLATION

EFFECTIVITY: ALL

1. General

- A. This section gives the procedures to remove and install the tail navigation lights support.
- 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
55-36-03-000-801-A	TAIL NAVIGATION LIGHTS SUPPORT - REMOVAL	ALL
55-36-03-400-801-A	TAIL NAVIGATION LIGHTS SUPPORT - INSTALLATION	ALL



EMB145 - EMB135

AIRCRAFT
MAINTENANCE MANUAL

TASK 55-36-03-000-801-A

EFFECTIVITY: ALL

2. TAIL NAVIGATION LIGHTS SUPPORT - REMOVAL

A. General

- (1) This task gives the instructions to remove the tail navigation lights support.

B. References

REFERENCE	DESIGNATION
AMM TASK 55-36-01-000-801-A/400	TAIL-BOOM LIGHT LENS - REMOVAL
S.B.145-33-0027	-
S.B.145-55-0030	-

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
321	Tail boom	Horizontal stabilizer

D. Tools and Equipment

Not Applicable

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	On the tail boom

I. Preparation

SUBTASK 841-003-A

- (1) Make sure that the aircraft is safe for maintenance.
- (2) Make sure that the "GPU" pushbutton, on the Overhead Panel, is set at OFF.
- (3) Place a DO-NOT-SET-TO-ON tag on the "GPU" pushbutton.
- (4) Make sure that the BATT 1 and BATT 2 switches, on the Overhead Panel, are set at OFF.
- (5) Place DO-NOT-SET-TO-AUTO tags on the BATT 1 and BATT 2 switches.
- (6) Set the BACKUP pushbutton, on the overhead panel, to OFF.



EMB145 – EMB135

AIRCRAFT
MAINTENANCE MANUAL

- (7) Place a DO-NOT-SET-TO-AUTO tag on the BACKUP pushbutton.
- (8) Remove the tail boom lens. Refer to ([AMM TASK 55-36-01-000-801-A/400](#)).

J. Removal

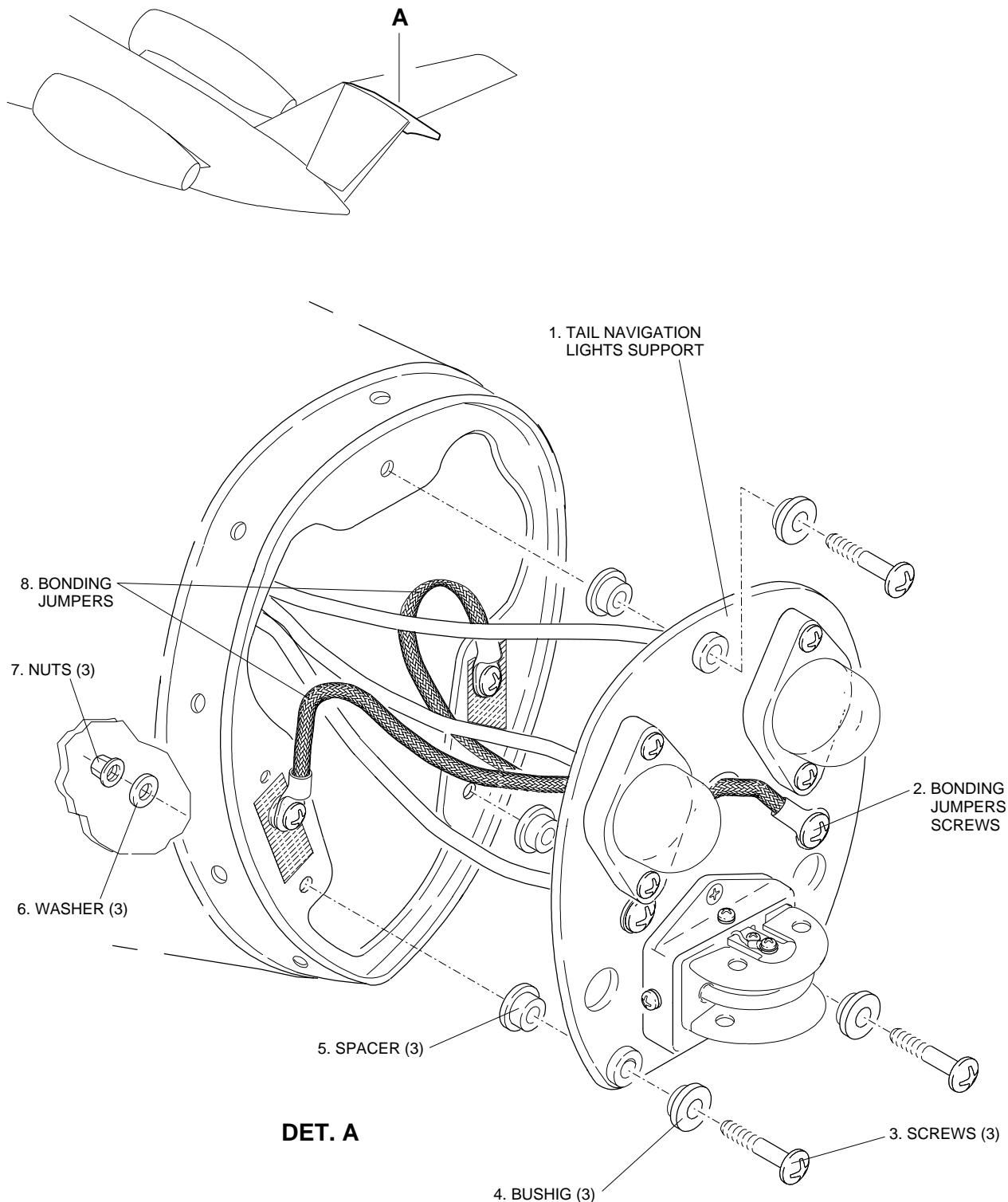
SUBTASK 020-003-A

- (1) For aircraft PRE-MOD. [S.B.145-33-0027](#) ([Figure 401](#)):
 - (a) Remove the screws (3), bushings (4), spacers (5), washers (6) and nuts (7) that attach the tail navigation lights support (1).
 - (b) Remove the bonding jumper screws (2), that attach the bonding jumpers (8) to the tail navigation lights support (1).
 - (c) Remove the tail navigation lights support (1).
- (2) For aircraft POST-MOD. [S.B.145-33-0027](#) and PRE-MOD. [S.B.145-55-0030](#) ([Figure 402](#)), or aircraft POST-MOD. [S.B.145-33-0027](#) and POST-MOD. [S.B.145-55-0030](#) ([Figure 403](#)), or aircraft with standby tail navigation lights PRE-MOD. [S.B.145-55-0030](#) ([Figure 404](#)), or aircraft with standby tail navigation lights POST-MOD. [S.B.145-55-0030](#) ([Figure 405](#)):
 - (a) Remove the nuts (3) and the washers (2) that attach the tail navigation lights support (1).
 - (b) Remove the bonding jumpers screws (4) and washers, that attach the bonding jumpers (6) to the tail navigation lights support (1).
 - (c) Remove the tail navigation lights support (1).
 - (d) Unscrew the rubber vibration isolation mounts (5). Hold them only by their support plates.

EFFECTIVITY: AIRCRAFT PRE-MOD. S.B. 145-33-0027

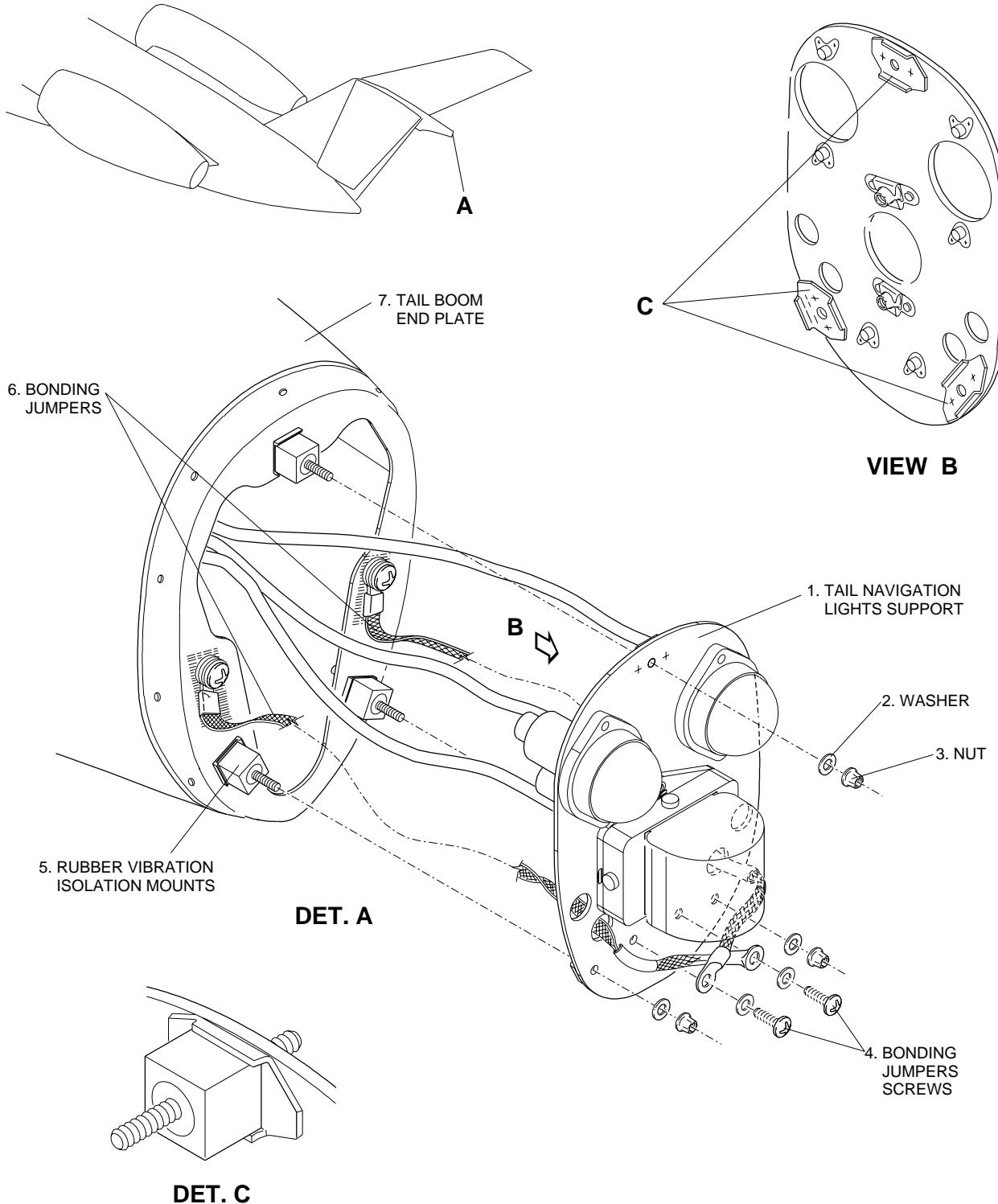
Tail Navigation Lights Support - Removal/Installation

Figure 401

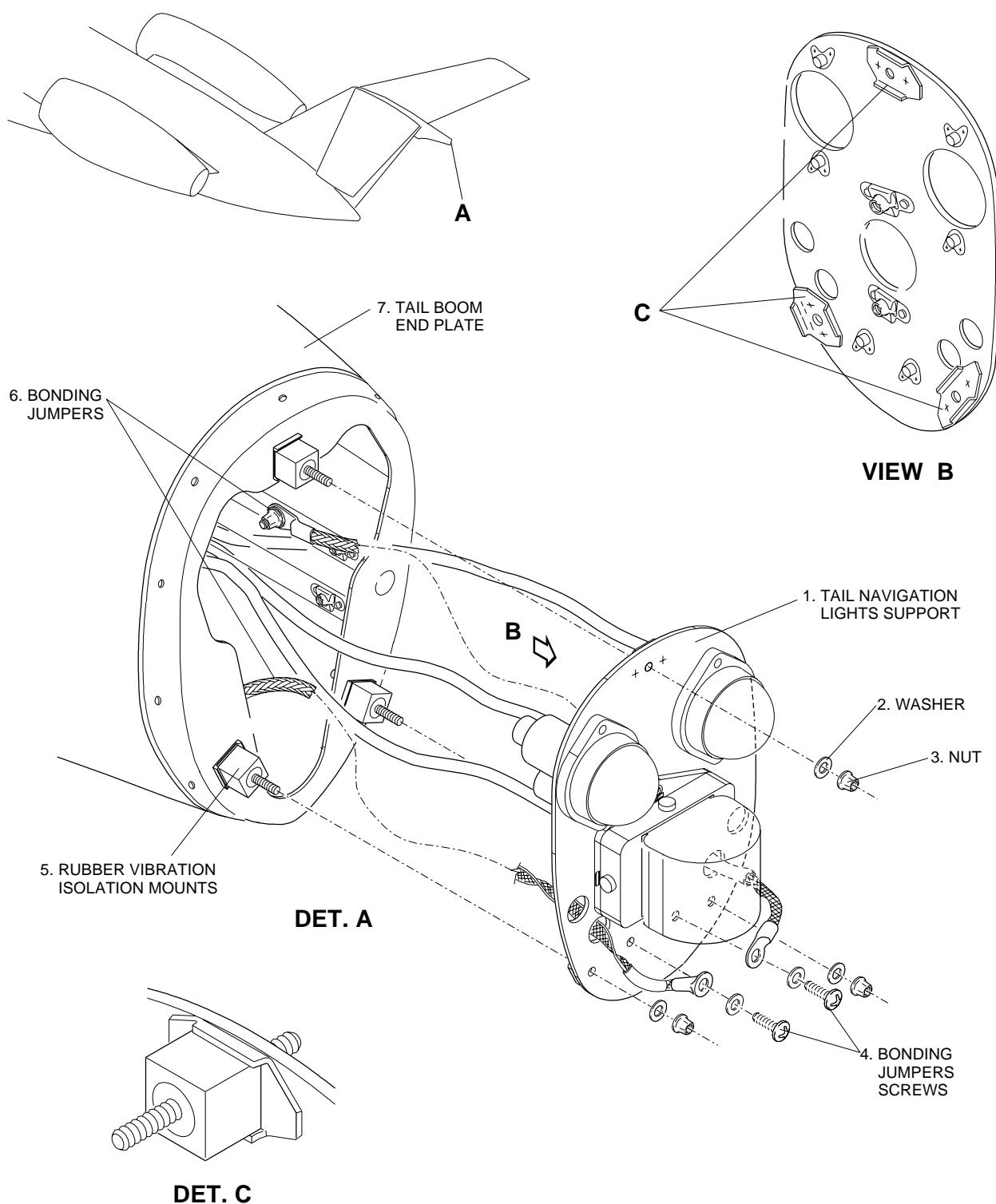


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EFFECTIVITY: AIRCRAFT POST-MOD. S.B. 145-33-0027 AND PRE-MOD. S.B. 145-55-0030
Tail Navigation Lights Support - Removal/Installation
Figure 402

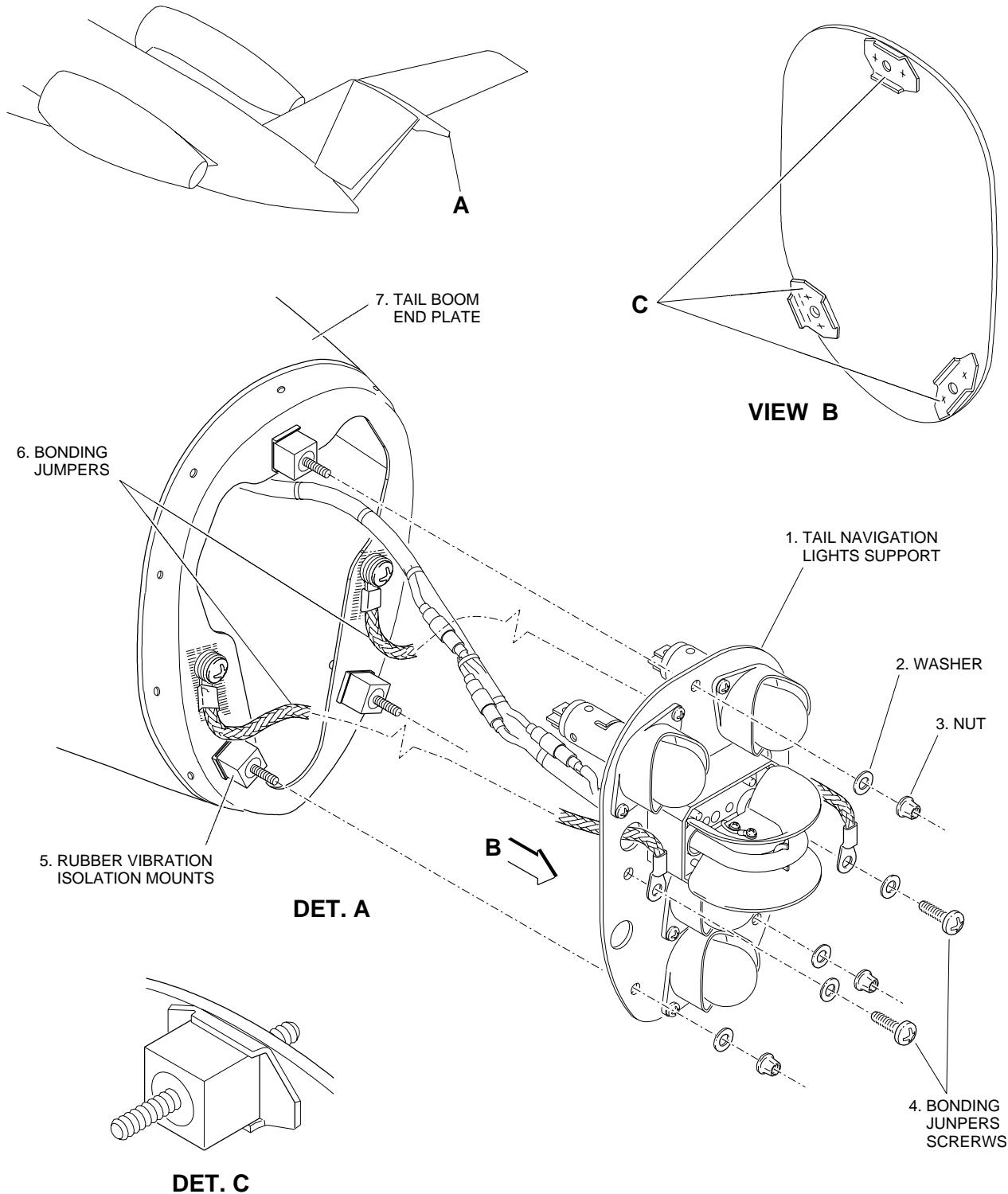


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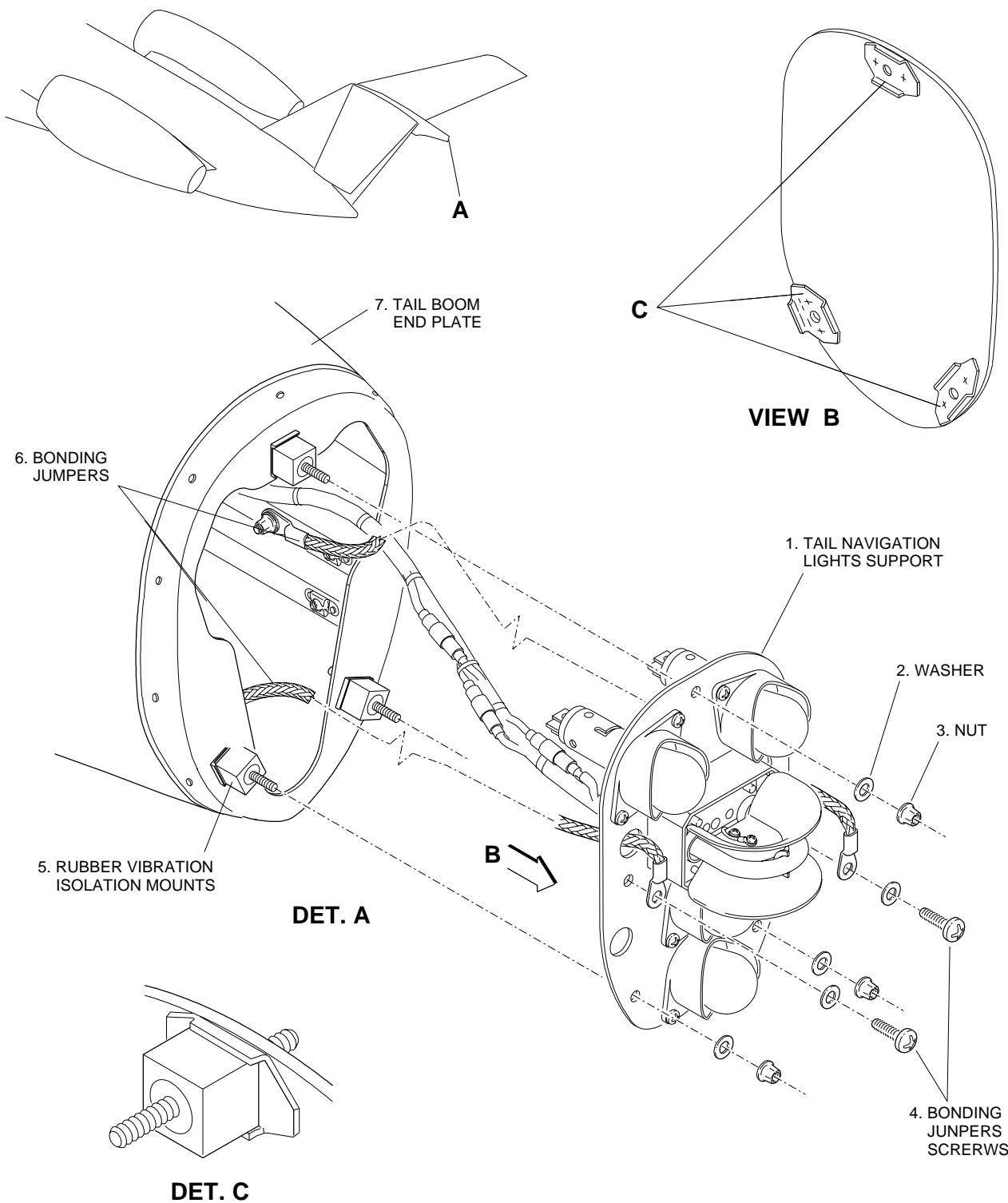
EFFECTIVITY: AIRCRAFT POST-MOD. S.B. 145-33-0027 AND POST-MOD. S.B. 145-55-0030
Tail Navigation Lights Support - Removal/Installation
Figure 403


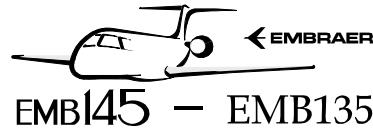
EM145AMM550173B.DGN

EFFECTIVITY: AIRCRAFT WITH STANDBY TAIL NAVIGATION LIGHTS PRE-MOD. S.B. 145-55-0030
Tail Navigation Lights Support - Removal/Installation
Figure 404



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EFFECTIVITY: AIRCRAFT WITH STANDBY TAIL NAVIGATION LIGHTS POST-MOD. S.B. 145-55-0030
Tail Navigation Lights Support - Removal/Installation
Figure 405

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TASK 55-36-03-400-801-A

EFFECTIVITY: ALL

3. TAIL NAVIGATION LIGHTS SUPPORT - INSTALLATION

A. General

- (1) This task gives the instructions to install the tail navigation lights support.

B. References

REFERENCE	DESIGNATION
AMM TASK 20-13-21-910-801-A/200	TYPES OF ELECTRICAL BONDING AND SURFACE PREPARATION - STANDARD PROCEDURES
AMM TASK 55-36-01-400-801-A/400	TAIL-BOOM LIGHT LENS - INSTALLATION
S.B.145-33-0027	-
S.B.145-55-0030	-

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
321	Tail boom	Horizontal stabilizer

D. Tools and Equipment

Not Applicable

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	On the tail boom

I. Installation (Figure 401)

SUBTASK 420-003-A

- (1) For aircraft PRE-MOD. S.B.145-33-0027 (Figure 401):

- (a) Install the screws (3), bushings (4), spacers (5), washers (6), and nuts (7), at the three assembly positions shown in Figure 401.
- (b) Prepare the installation of the bonding jumpers. Refer to AMM TASK 20-13-21-910-801-A/200.
- (c) Connect the bonding jumpers (8), with their screws (2).

- (2) For aircraft POST-MOD. [S.B.145-33-0027](#) and PRE-MOD. [S.B.145-55-0030](#) (Figure 402), or aircraft POST-MOD. [S.B.145-33-0027](#) and POST-MOD. [S.B.145-55-0030](#) (Figure 403), or aircraft with standby tail navigation lights PRE-MOD. [S.B.145-55-0030](#) (Figure 404), or aircraft with standby tail navigation lights POST-MOD. [S.B.145-55-0030](#) (Figure 405):

- (a) Install the rubber vibration isolation mounts (5) at the three positions in the tail boom end plate (7). Screw them down. Always hold them only by their support plate.

CAUTION: BE CAREFUL NOT TO APPLY TORQUE TO THE RUBBER OF THE MOUNTS, WHILE YOU KEEP THE GAP BETWEEN THE TAIL BOOM END PLATE AND THE MOUNTS AT A MINIMUM.

- (b) Align the rubber vibration isolation mounts (5) with the related flanges on the brackets on the tail navigation lights support (1), shown in DET. C of Figure 402 or Figure 403 or Figure 404 or Figure 405, as applicable.

- (c) Prepare the installation of the bonding jumpers. Refer to [AMM TASK 20-13-21-910-801-A/200](#).

- (d) Connect the bonding jumpers (6), with their screws (4) and washers.

CAUTION: MAKE SURE THAT THE VIBRATION ISOLATION MOUNTS ARE CORRECTLY ALIGNED WITH THE RELATED BRACKETS ON THE TAIL NAVIGATION LIGHTS SUPPORT.

- (e) Install the tail navigation lights support (1).

- (f) Install the washers (2) and the nuts (3).

J. Follow-on

SUBTASK 842-003-A

- (1) Install the tail boom lens. Refer to [AMM TASK 55-36-01-400-801-A/400](#).
- (2) Remove the DO-NOT-SET-TO-AUTO tag from the BACKUP pushbutton.
- (3) Set the BACKUP pushbutton, on the Overhead Panel, to AUTO.
- (4) Remove the DO-NOT-SET-TO-AUTO tags from the BATT 1 and BATT 2 switches.
- (5) Remove the DO-NOT-SET-TO-ON tag from the GPU pushbutton.