

CONTROL YOKE PITCH TRIM SWITCH - REMOVAL/INSTALLATION

EFFECTIVITY: ALL

1. General

- A. This section gives the procedures to remove/install the PITCH TRIM switch from the control yoke.
- 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
27-40-03-000-801-A	PITCH TRIM SWITCH - REMOVAL	ALL
27-40-03-400-801-A	PITCH TRIM SWITCH - INSTALLATION	ALL

TASK 27-40-03-000-801-A

EFFECTIVITY: ALL

2. PITCH TRIM SWITCH - REMOVAL

A. General

(1) This task gives the procedure to remove the PITCH TRIM switch from the control yoke.

B. References

REFERENCE	DESIGNATION
AMM TASK 11-32-01-340-801-A/800	PLACARD - REPAIR
S.B.145-27-0096	-

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
223		Control yoke - LH
224		Control yoke - RH

D. Tools and Equipment

ITEM	DESCRIPTION	PURPOSE	QTY
Commercially Available	Pliers - 7"	To loosen/tighten the AP/TRIM/PUSHER nut (disc)	
GSE 393	Wrench-Instl/rmv, New Pitch Trim Switch	To remove the sleeve from the new pitch trim switch	

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	Cockpit

I. Preparation

SUBTASK 841-002-A

(1) Open these circuit breakers and attach a DO-NOT-CLOSE tag to them:

(a) AP1 (Location Tip: DC BUS 1/FLIGHT CONTROLS).

(b) PITCH TRIM 1 (Location Tip: DC BUS 1/FLIGHT CONTROLS).

(c) PITCH TRIM 2 (Location Tip: ESSENTIAL DC BUS 2).

J. Removal

SUBTASK 020-002-A

(1) Remove the AP/TRIM/PUSHER disc placard (1) (refer to [AMM TASK 11-32-01-340-801-A/800](#)).

(2) Loosen the nut (2) from the AP/TRIM/PUSHER switch.

(3) On aircraft PRE-MOD [S.B.145-27-0096](#) (Figure 401):

- (a) Loosen the screws (4) from the switch support (3) and pull it to get access to its back side.
- (b) NOTE: Identify the unsolder wires to prevent incorrect connections during the installation.

Unsolder the electric connections (5) from the PITCH TRIM switch (6).

(c) Loosen the sleeve (7) and remove the PITCH TRIM switch (6) from the switch support (3).

- NOTE:
- Before removal, warm the sleeve with heat gun to make it easier.
 - Use an applicable wrench and GSE393 to do the step c.

(4) On aircraft POST-MOD [S.B.145-27-0096](#) (Figure 402):

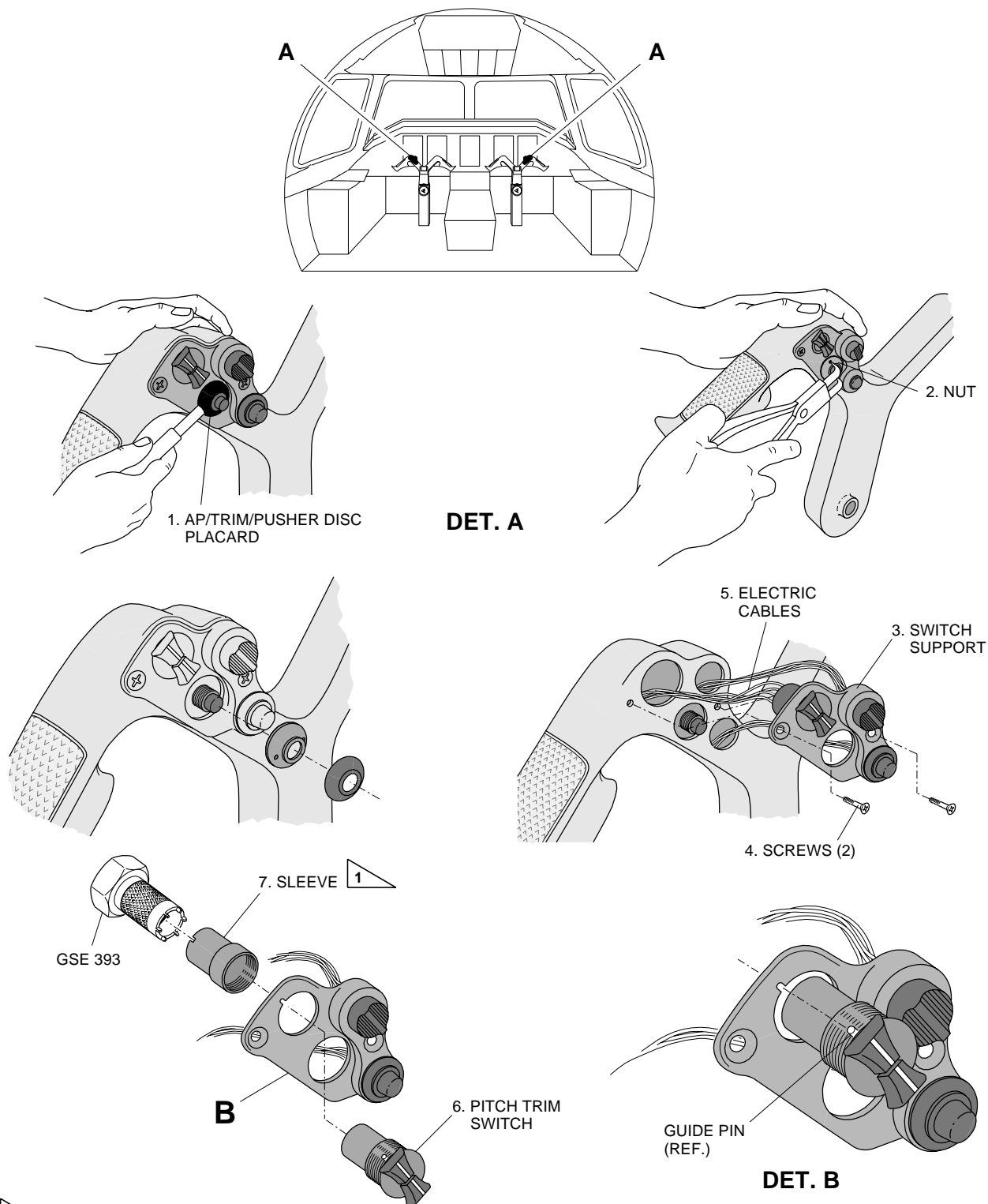
- (a) Disconnect the PITCH TRIM wires (5) from the new PITCH TRIM switch (6).
- (b) Loosen the sleeve (7) and remove the new PITCH TRIM switch (6) from the switch support (3).

- NOTE:
- Before removal warm the sleeve with heat gun to make it easier.
 - Use an applicable wrench and GSE393 to do the step b.

EFFECTIVITY: PRE-MOD S.B. 145-27-0096

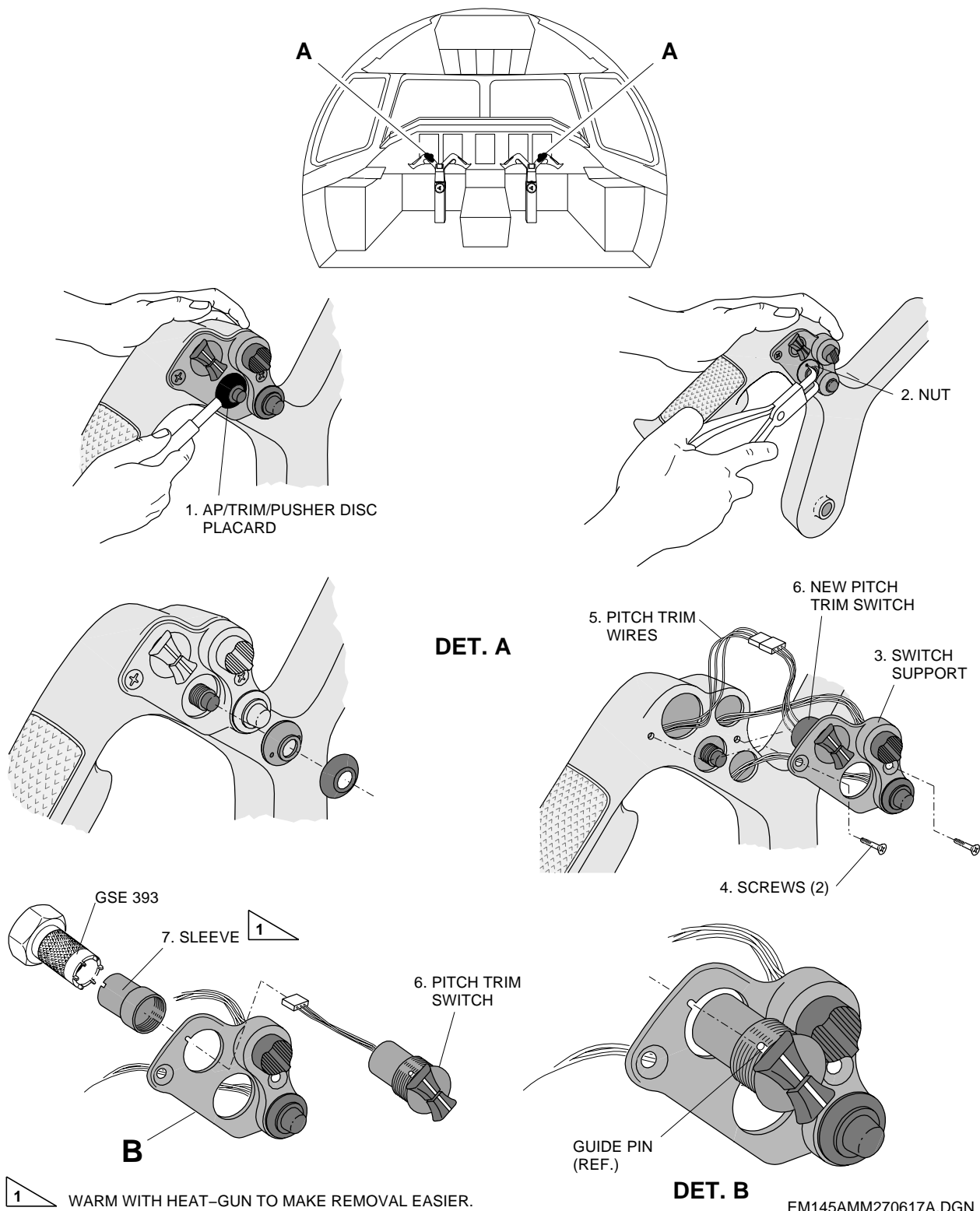
PITCH TRIM Switch - Removal/Installation

Figure 401



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EFFECTIVITY: POST-MOD S.B.145-27-0096
New PITCH TRIM Switch - Removal/Installation
Figure 402



TASK 27-40-03-400-801-A

EFFECTIVITY: ALL

3. PITCH TRIM SWITCH - INSTALLATION

A. General

(1) This task gives the procedure to install the PITCH TRIM switch to the control yoke.

B. References

REFERENCE	DESIGNATION
AMM TASK 11-32-01-340-801-A/800	PLACARD - REPAIR
AMM TASK 27-40-00-700-802-A/500	HORIZONTAL-STABILIZER ELECTRICAL/ELECTRONIC OPERATIONAL TEST
S.B.145-27-0096	-

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
223		Control yoke - LH
224		Control yoke - RH

D. Tools and Equipment

ITEM	DESCRIPTION	PURPOSE	QTY
Commercially Available	Pliers - 7"	To loosen/tighten the AP/TRIM/PUSHER nut (disc)	
GSE 393	Wrench-Instl/rmv, New Pitch Trim Switch	To remove the sleeve from the new pitch trim switch	

E. Auxiliary Items

ITEM	DESCRIPTION	PURPOSE	QTY
Placard	11-31-02-01-040	-	1

F. Consumable Materials

SPECIFICATION (BRAND)	DESCRIPTION	QTY
Commercially Available	Loctite 221 Type I	AR
MIL-I-23053	Heat-shrinkable Sleeve RNF-100 1/8-9	AR
QQ-S-571	Solder RO 60	AR

G. Expandable Parts

Not Applicable

H. Persons Recommended

QTY	FUNCTION	PLACE
1	Does the task	Cockpit

I. Installation (Figure 401)

SUBTASK 420-002-A

- (1) On aircraft PRE-MOD [S.B.145-27-0096](#) (Figure 401):

- (a) Apply the minimum quantity of Loctite to the PITCH TRIM switch (6).

CAUTION: MAKE SURE THAT YOU INSTALL THE PITCH TRIM SWITCH IN THE CORRECT INSTALLATION POSITION. IF YOU INSTALL THE PITCH TRIM SWITCH IN THE WRONG INSTALLATION POSITION MALFUNCTION OF THE SYSTEM WILL OCCUR.

- (b) Put the PITCH TRIM switch (6) into the switch support (3).

NOTE: Make sure the guide pin of the PITCH TRIM switch (6) is correctly installed on the switch support (3).

- (c) Install and tighten the sleeve (7) to the PITCH TRIM switch (6).

NOTE: Use an applicable wrench and GSE393 to do the step c.

CAUTION: THE SOLDER POINTS MUST BE PROTECTED WITH HEAT-SHRINKABLE SLEEVES.

- (d) Solder the electrical connections (5) to the PITCH TRIM switch (6).

- (2) On aircraft POST-MOD [S.B.145-27-0096](#) (Figure 402):

- (a) Apply the minimum quantity of Loctite to the new PITCH TRIM switch (6).

CAUTION: MAKE SURE THAT YOU INSTALL THE PITCH TRIM SWITCH IN THE CORRECT INSTALLATION POSITION. IF YOU INSTALL THE PITCH TRIM SWITCH IN THE WRONG INSTALLATION POSITION MALFUNCTION OF THE SYSTEM WILL OCCUR.

- (b) Put the new PITCH TRIM switch (6) into the switch support (3).

NOTE: Make sure the guide pin of the PITCH TRIM switch (6) is correctly installed on the switch support (3).

- (c) Install and tighten the sleeve (7) to the new PITCH TRIM switch (6).

NOTE: Use an applicable wrench and GSE393 to do the step c.

- (d) Connect the PITCH TRIM wires (5) to the new PITCH TRIM switch (6).

- (3) Install the switch support (3) in place and tighten the screws (4).

- (4) Tighten the nut (2) on the AP/TRIM/PUSHER switch.

- (5) Install the AP/TRIM/PUSHER disc placard (1) (refer to [AMM TASK 11-32-01-340-801-A/800](#)).

J. Follow-on

SUBTASK 842-002-A

- (1) Remove the DO-NOT-CLOSE tag from the AP1, PITCH TRIM 1 and PITCH TRIM 2 circuit breakers and close them.
- (2) Do the Horizontal-Stabilizer Electrical/Electronic Operational Test ([AMM TASK 27-40-00-700-802-A/500](#)).