



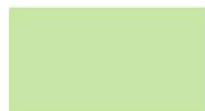
PA-31P **PRESSURIZED**
NAVAJO
Service Manual

CARD 1 OF 4

Color Code Legend



Special Emphasis



Elevator Trim Tab



Control Horn, Component
of Elevator Trim Tab

PIPER AIRCRAFT CORPORATION

SECTION IV

STRUCTURES

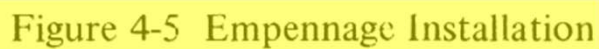
4-21.	Elevator.....	1F4
4-22.	Removal of Elevator	1F4
4-23.	Installation of Elevator	1F4
4-24.	Elevator Trim Tab.....	1F5
4-25.	Removal of Elevator Trim Tab.....	1F5
4-26.	Installation of Elevator Trim Tab	1F5
4-27.	Horizontal Stabilizer.....	1F5
4-28.	Removal of Horizontal Stabilizer	1F5
4-29.	Installation of Horizontal Stabilizer	1F5

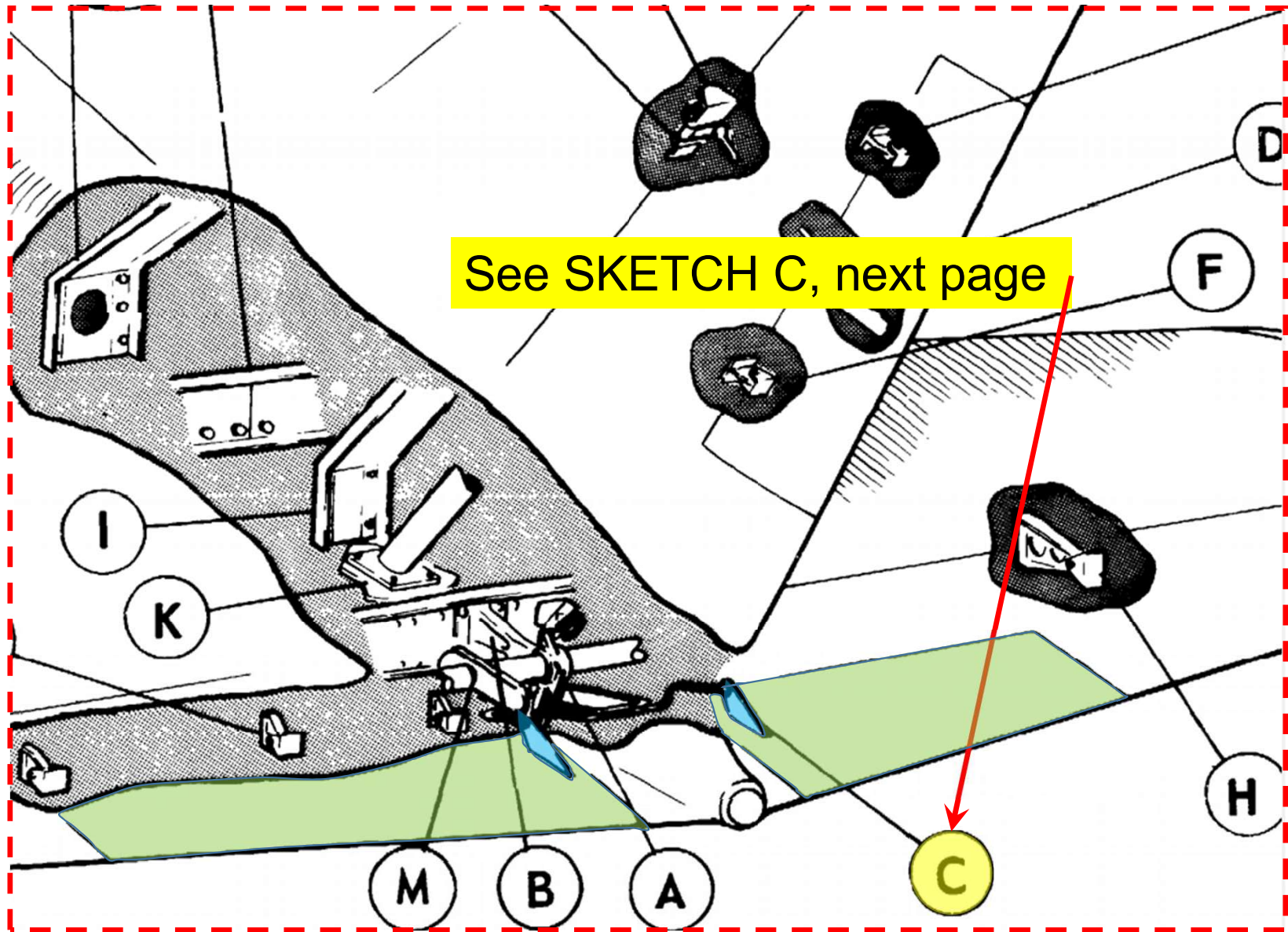
4-23. INSTALLATION OF ELEVATOR. (Refer to Figure 4-5.)

- g. Check elevator for proper operation and friction limits.

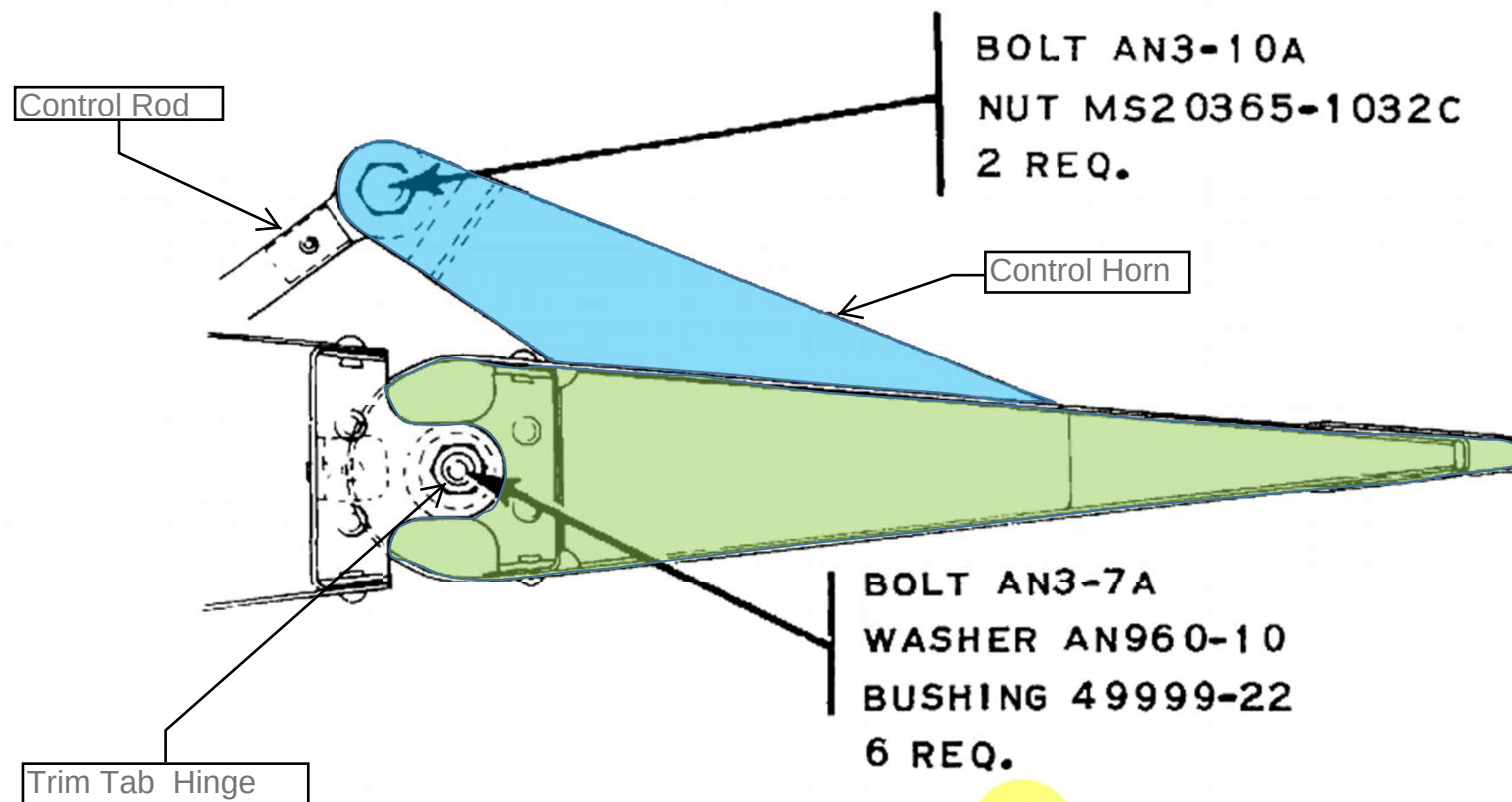
4-26. INSTALLATION OF ELEVATOR TRIM TAB. (Refer to Figure 4-5.)

- a. Place the trim tabs in position and install bolts.
- b. Position the tab control rods, install the attaching bolts and torque.





293



SKETCH C

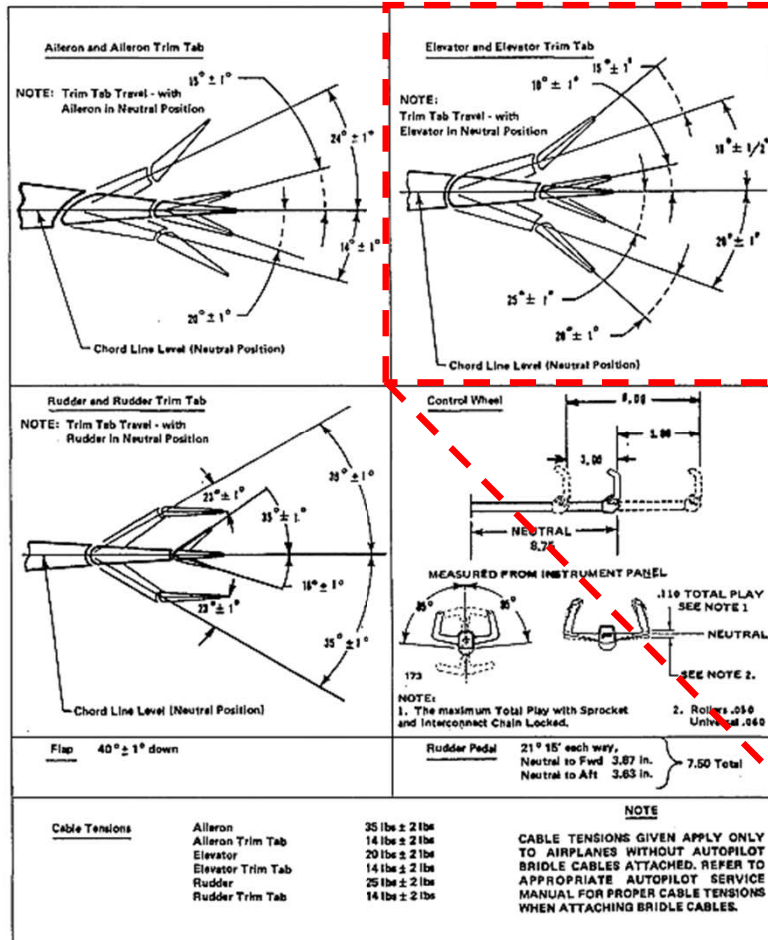
SECTION V

SURFACE CONTROLS

5-20.	Elevator Controls	1I2
5-21.	Removal of Elevator Control Cables	1I5
5-22.	Installation of Elevator Control Cables	1I6
5-23.	Rigging and Adjustment of Elevator Controls	1I6
5-24.	Removal of Elevator Bellcrank Assembly	1I8
5-25.	Installation of Elevator Bellcrank Assembly	1I8
5-26.	Elevator Trim Controls	1I9
5-27.	Removal of Forward Elevator Trim Assembly	1I9
5-28.	Installation of Forward Elevator Trim Assembly	1I9
5-29.	Removal of Rear Elevator Trim Assembly	1I9
5-30.	Installation of Rear Elevator Trim Assembly	1I10
5-31.	Rigging and Adjustment of Elevator Trim	1I10

PRESSURIZED NAVAJO SERVICE MANUAL

TABLE V-I. CONTROL SURFACE TRAVEL AND CABLE TENSION

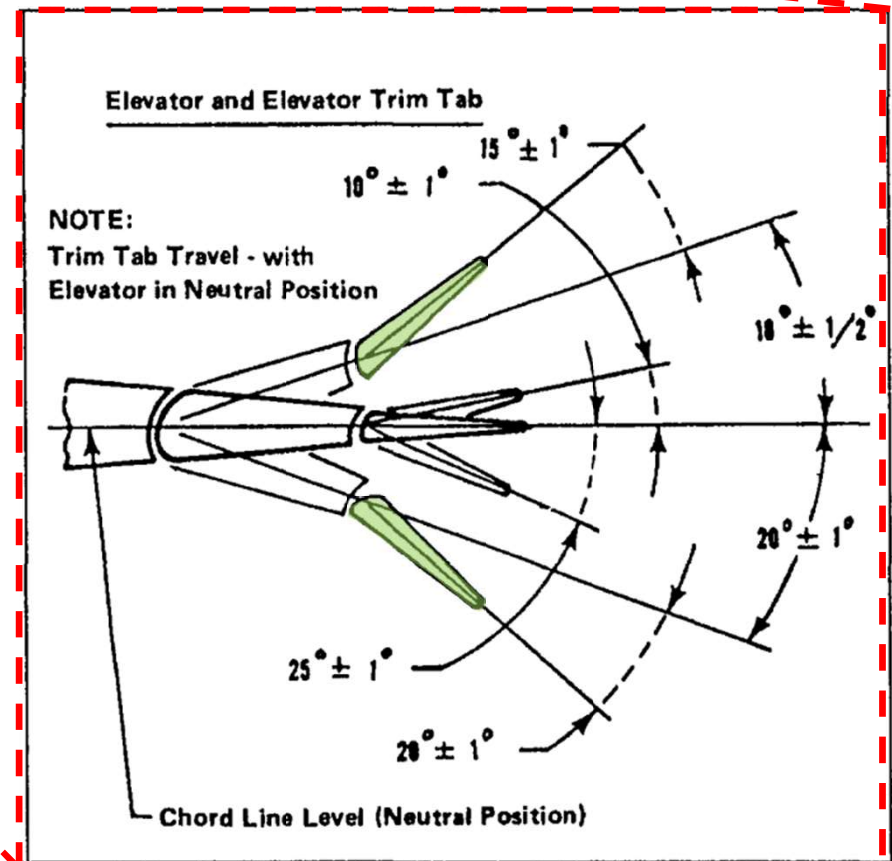


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1H11

SURFACE CONTROLS

TABLE V-I. CONTROL SURFACE TRAVEL AND CABLE TENSION



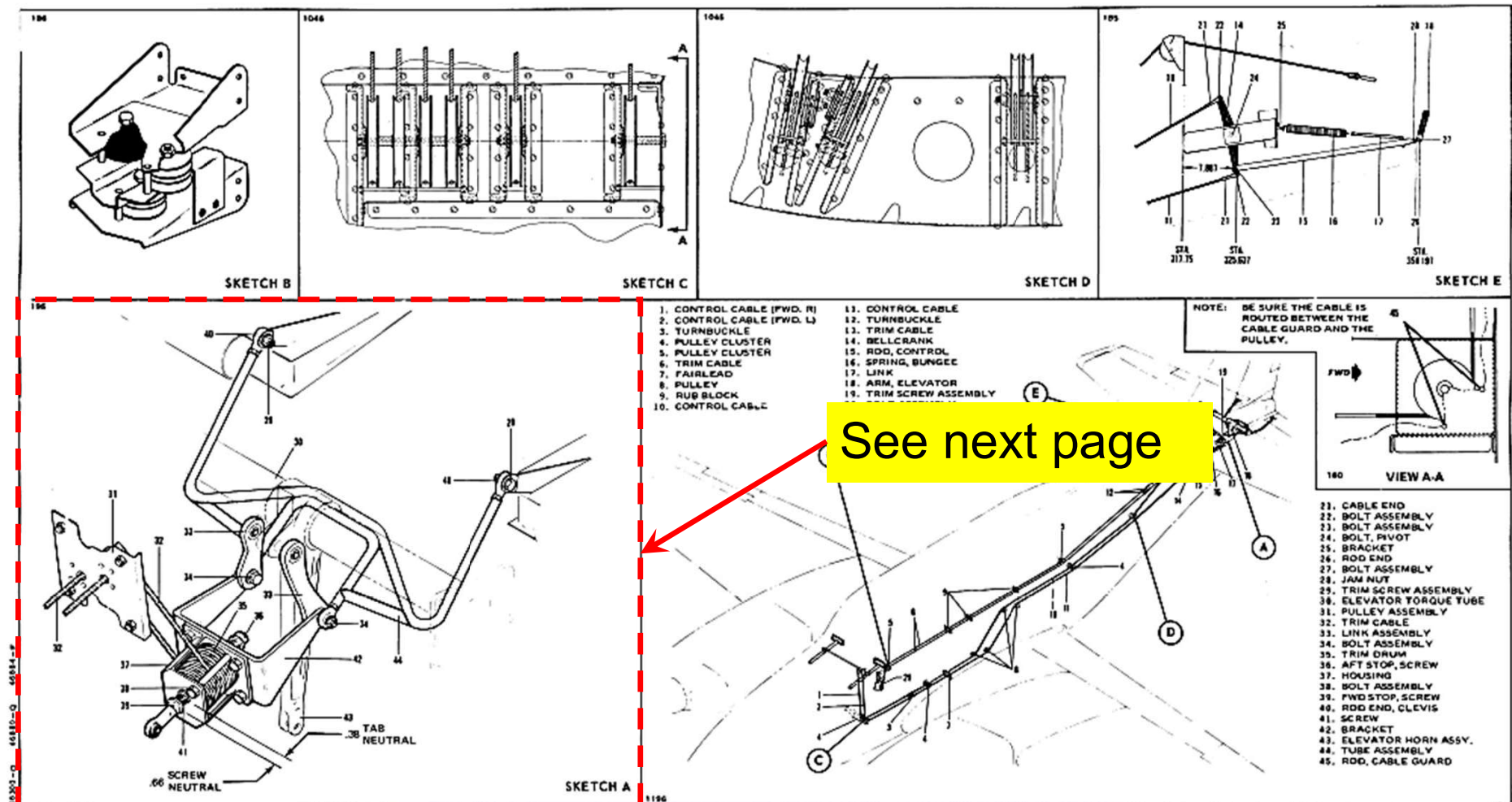
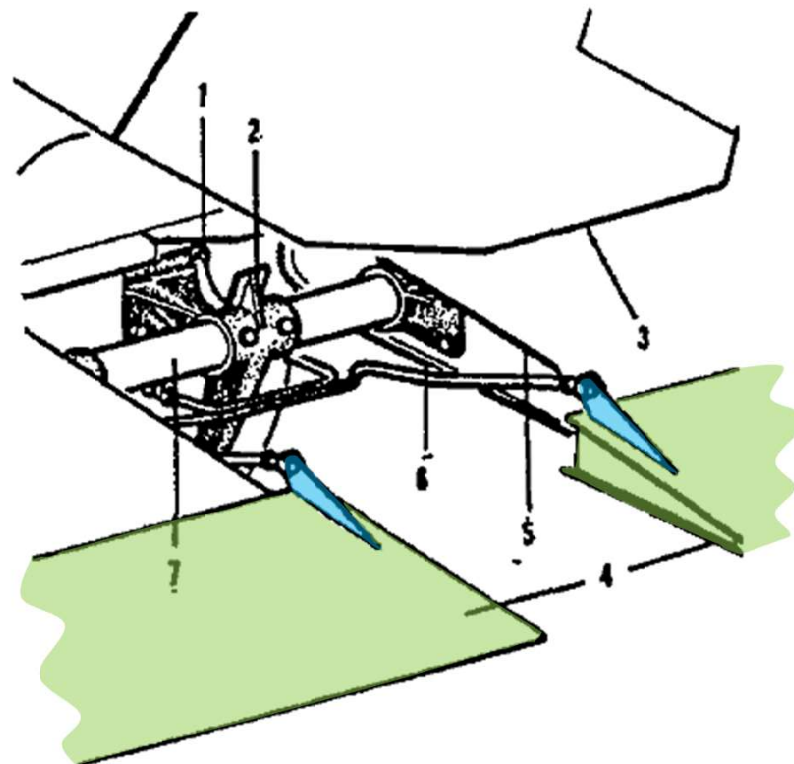


Figure 5-5. Elevator and Elevator Trim Controls



- | | |
|-----------------------|---------------------------------|
| 1. STOP BOLT | 5. STABILIZER |
| 2. STOP PLATE | 6. ELEVATOR TRIM TUBE MECHANISM |
| 3. RUDDER | 7. ELEVATOR TORQUE TUBE |
| 4. ELEVATOR TRIM TABS | |

5-7. Elevator Travel Stops

5-23. RIGGING AND ADJUSTMENT OF ELEVATOR CONTROLS. (Refer to Figure 5-5.)

- f. With the elevator neutral, place a bubble protractor on the elevator and establish neutral or zero on the protractor. Move the elevator up until the control arm contacts its stop. (Refer to Figure 5-7.) Check the up travel as given in Table V-I. With the elevator in its properly rigged position make sure the stop bolt is sealed with Torque Seal, adjust the screw to the required extension, and torque the locknut 20 to 40 in. lbs. Move the elevator down and check and adjust by the same method. Tighten adjustment screw locknuts. The elevator control arm should contact its stops before the control wheel contacts its stops.

5-31. RIGGING AND ADJUSTMENT OF ELEVATOR TRIM. (Refer to Figure 5-5.)

- e. Operate the trim in each direction till the screw stops to check the tab angle as given in Table V-I. Also, check the minimum number of cable wraps left on the drums. (The minimum number of wraps allowable is one and one quarter turns.)