



Figure 38. Stabilator Trim Mechanism Installation

REVISED: APRIL 1977

2K19

PA-24-180
PA-24-250
PA-24-260
PA-24-400



Figure and Index Number	Part Number	Code	NOMENCLATURE	No. Req.	SERIAL NUMBERS AFFECTED
38-	20839	XY	DRAWING - Stabilator Trim Mechanism Installation		
	22678	Z	DRAWING - Stabilator Trim Mechanism Installation		
	24868	V	DRAWING - Stabilator Trim Mechanism Installation		
	20955	X	DRAWING - Control System Installation		24-1 to 24-102 inclusive
	21553	XY	DRAWING - Control System Installation		24-103 to 24-2843 inclusive
	23029	Y	DRAWING - Control System Installation		24-2844 and up
	21553	X	DRAWING - Control System Installation		24-2844 and up
	23014	Z	DRAWING - Control System Installation		
	24869	BV	DRAWING - Control System Installation		
	25402	V	DRAWING - Control System Installation		24-4247, 24-4300 and up
-1	20838-00	VXY	ARM ASSEMBLY - Stabilator tab actuator	1	
	30176-03	Z	ARM ASSEMBLY - Stabilator tab actuator	1	
-2	452 374	VXY	BEARING - Oilite (F-427)	2	
	452 385	Z	BEARING - Oilite (FF-520-15)	2	
-3	452 383		BEARING - Rod end (24166-00)	1	
-4	20836-00	VXY	BELLCRANK ASSEMBLY - Stabilator tab control	1	
	22887-00	Z	BELLCRANK ASSEMBLY - Stabilator tab control	1	
-4a	21831-03	Z	BEARING - Bellcrank assembly	2	
-5	20834-00	AXY	STOP - Trim tab screw, upper	1	24-1 to 24-3650 inclusive
	20834-05	VXY	STOP - Trim tab screw, upper	1	24-3651 and up
	20834-05	Z	STOP - Trim tab screw, upper	1	
-6	20834-02	AXY	STOP - Trim tab screw, lower	1	24-1 to 24-2843 inclusive
	20834-03	AY	STOP - Trim tab screw, lower	1	24-2844 to 24-3650 inclusive
	20834-02	AX	STOP - Trim tab screw, lower	1	24-2844 to 24-3650 inclusive
	20834-06	X	STOP - Trim tab screw, lower	1	24-3651 and up
	20834-07	VY	STOP - Trim tab screw, lower	1	24-3651 and up
	20834-05	Z	STOP - Trim tab screw, lower	1	
-7	20800-00		DRUM - Stabilator trim tab control	1	
-8	20840-03		BRACKET ASSEMBLY - Control cable drum	1	
-9	452 376		BEARING - Oilite (F-586)	2	
-10	756 217	AX	SCREW AND STOP ASSEMBLY - Stabilator trim tab	1	24-1 to 24-3650 inclusive
	756 217	AY	SCREW AND STOP ASSEMBLY - Stabilator trim tab	1	24-105 to 24-2843 inclusive
	756 218	AY	SCREW AND STOP ASSEMBLY - Stabilator trim tab	1	24-2844 to 24-3650 inclusive
	20802-04	VXY	SCREW - Stabilator trim tab control	1	24-3651 and up
	22864-00	Z	SCREW - Stabilator trim tab control	1	
-11	80022-96	XY	BUSHING	2	
-12	20485-02	XY	BRACKET ASSEMBLY - Stabilator trim cable pulley	2	
	23452-00	VZ	BRACKET ASSEMBLY - Stabilator trim cable pulley, left	1	
	23452-01	VZ	BRACKET ASSEMBLY - Stabilator trim cable pulley, right	1	
-13	17089-00		PIN	1	
-14	21049-00	VXY	STOP - Bolt	2	
-15	14843-47	VXY	BUSHING	2	

A - If screw and stop assembly 756 217 or 756 218 which incorporates a clevis pin for the stop attachment has been installed, order part for serial numbers 24-3651 and up.
 B - Used on PA-24-260 with serial numbers 24-3642, 24-4000 to 24-4246, 24-4248 to 24-4299 inclusive.
 V - Used on PA-24-260 airplanes only.
 X - Used on PA-24-180 airplanes only.
 Y - Used on PA-24-250 airplanes only.
 Z - Used on PA-24-400 airplanes only.

When ordering, always specify Part Number, Description and Serial Number of Aircraft



Figure and Index Number	Part Number	Code	NOMENCLATURE	No. Req.	SERIAL NUMBERS AFFECTED
38-16	20560-00	VXY	CLIP - Stabilator tab control, left	1	
	20560-01	VXY	CLIP - Stabilator tab control, right	1	
	16722-02	Z	CLIP - Stabilator tab control, left	1	
	16722-03	Z	CLIP - Stabilator tab control, right	1	
-17	14976-42	VXY	BUSHING	1	
	14976-63	Z	BUSHING	1	
-18	14843-26	VXY	BUSHING	2	
-19	481 621	C	PULLEY - (AN210-1B)	2	
	20534-00	V	PULLEY - Stabilator trim	2	24-4247, 24-4300 and up
-20	20946-00		CABLE ASSEMBLY - Stabilator trim tab control, rear	1	
-21	21093-00	XY	CABLE ASSEMBLY - Stabilator trim tab control, front	1	
	21093-02	BVZ	CABLE ASSEMBLY - Stabilator trim tab control, front	1	
-22	14300-30	A	CABLE ASSEMBLY - Stabilator trim tab control	1	
-23	452 019		BARREL - Turnbuckle (AN155-5S)	2	
-24	17442-03	XY	TEE ASSEMBLY - Stabilator trim indicator	1	
-25	480 682		PIN - Roll (#59-022-094-0750)	1	
	480 707	AVZ	PIN - Roll (#59-022-094-1000)	1	
-26	20623-00		PLATE - Rub	4	24-1 to 24-102 inclusive
-27	14843-33	XY	BUSHING	1	
-28	14843-34	VXY	BUSHING	3	
-29	20534-00	VXY	PULLEY	3	
-30	14183-03	XY	ROD - Threaded	1	
-31	86092-66	XY	ROD - Cable guard	2	
-32	80421-00		PULLEY	1	
-33	80012-04		WASHER	1	
-34	80122-18		WASHER	2	
-35	20907-00		PULLEY - Stabilator trim crank (Aluminum)	1	
	25048-00	AZ	PULLEY - Stabilator trim crank (Plastic)	1	
	25048-02		PULLEY - Stabilator trim crank (Plastic)	1	
-36	20908-00		STEM - Stabilator trim crank	1	
-37	464 023		HANDLE ASSEMBLY - Stabilator trim crank	1	
-38	20905-00		CHANNEL ASSEMBLY - Stabilator trim pulley	1	
-39	151 310		WIRE - Indicator, stainless steel	20'	
-40	481 621	XY	PULLEY - Trim cable (AN210-1B)	2	
	20534-00	VZ	PULLEY - Trim cable	2	
-41	24026-00	VZ	INDICATOR - Stabilator trim	1	
-42	24666-00	Z	PLACARD - Stabilator trim indicator	1	
	24875-00	V	PLACARD - Stabilator trim indicator	1	
-43	24023-02	VZ	BRACKET - Stabilator indicator tube	1	
-44	24024-03	VZ	BRACKET - Stabilator indicator	1	
-45	24025-02	VZ	TUBE - Stabilator indicator	1	
-46	20534-00		PULLEY	2	

A - Used when electric trim is installed.
 B - If electric trim is installed and 6 3/4" splice cable is not installed, order Part No. 14300-30 also.
 C - Used on PA-24-180, PA-24-250 and PA-24-260 with serial numbers 24-1 to 24-4246 inclusive, 24-4248 to 24-4299 inclusive, PA-24-400 with serial numbers 26-2 and up.
 V - Used on PA-24-260 airplanes only.
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38-47	20903-00	XY	BRACKET - Pulley	2	
	24813-00	VZ	BRACKET - Pulley	2	
-48	23954-00	VZ	TUBE - Cable guide	3	
-49	400 106	VXY	BOLT - (AN4-11)	1	
	402 310	Z	BOLT - (AN174-12)	1	
	407 565	Z	WASHER - (AN960-416)	1	
	404 101		NUT - (AN310-4)	1	
	424 051		PIN - Cotter (AN380-2-2)	1	
-50	401 312	VXY	BOLT - (AN4-12A)	1	
	402 311	Z	BOLT - (AN174-12A)	1	
	407 565	Z	WASHER - (AN960-416)	1	
	404 888		NUT - (MS20365-428C)	1	
-51	401 270	VXY	BOLT - (AN3-11A)	1	
	402 315	Z	BOLT - (AN174-15)	1	
	407 565	Z	WASHER - (AN960-416)	1	
	404 835	VXY	NUT - (MS20364-1032C)	1	
	404 101	Z	NUT - (AN310-4)	1	
	424 051	Z	PIN - Cotter (AN380-2-2)	1	
-52	472 028	VZ	BULB - Indicator (#327-28V)	1	24-3642, 24-4000 to 24-4472 incl., 26-2 and up
	472 054	V	BULB - Indicator (#330-14V)	1	24-4473 and up
-53	484 308	VZ	RECEPTACLE - Indicator bulb (#GB-5952-3LH-C-14)	1	
-54	42891-00		SPRING	1	

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