

STC GROUP LLC AUTOPILOT
ILLUSTRATED PARTS CATALOG
MODEL: PIPER PA-28 STRAIGHT WING

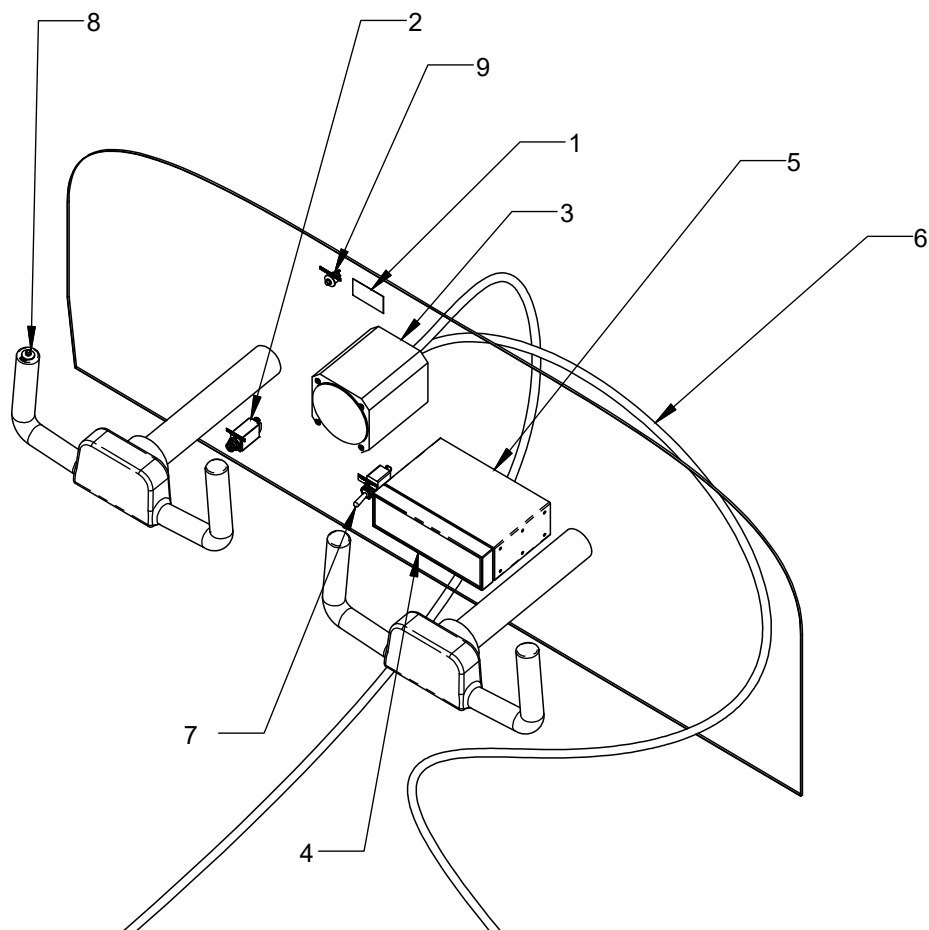


FIGURE 1 - INSTRUMENT PANEL

ITEM NO.	QTY.	PART NUMBER	DESCRIPTION	NOTE	FIG
	1	1028811	PITCH SERVO INSTALLATION	(Top Assembly)	
	1	1028804	ROLL SERVO INSTALLATION	(Top Assembly)	
1	1	1006450-1	AP LIMITATIONS PLACARD		1
	1	1006451-1	PANEL LABELS		
2	1	7274-2-5	CIRCUIT BREAKER		1
3	1	10000000	CONTROLLER - INSTRUMENT MOUNT		1
4	1	20000000	CONTROLLER - RACK MOUNT		1
5	1	22500000	TRAY		1
	1	31000000	PITCH SERVO - CCW ROTATION		
	1	30000000	ROLL SERVO - CW ROTATION	(FIXED LANDING GEAR)	
	1	31000000	ROLL SERVO - CCW ROTATION	(RETRACTABLE LANDING GEAR)	
6	1	41000000	WIRE HARNESS ASSEMBLY		1
7	1	MS35058-22	TOGGLE SWITCH	(REQUIRED FOR RACK MOUNT CONTROLLER ONLY)	1
8	1	MSPS103C2	PUSH BUTTOM SWITCH (RED)		1
9	1	MSPS103C0	PUSH BUTTOM SWITCH (BLACK)		1

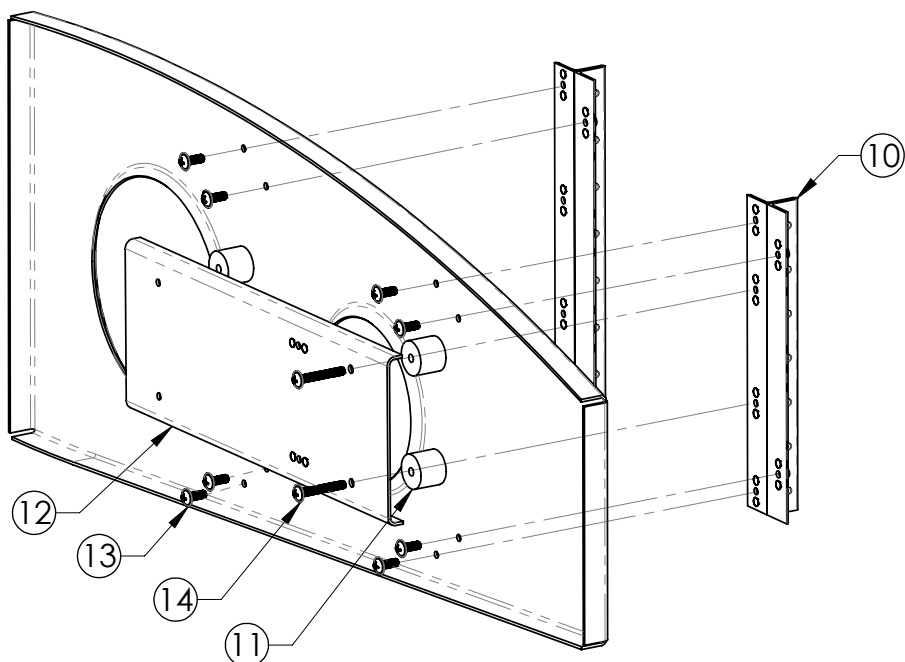


FIGURE 2 - ROLL SERVO PROVISIONS

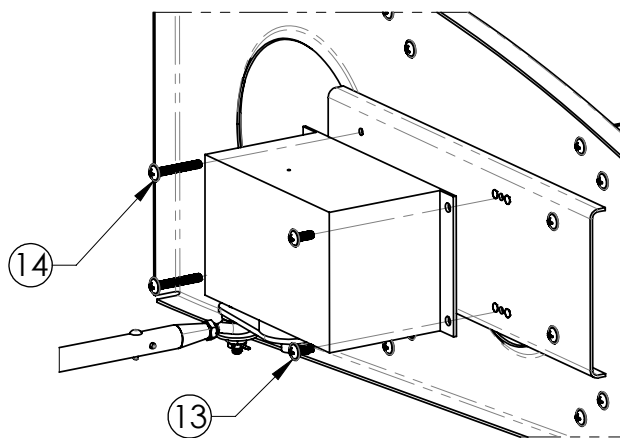


FIGURE 3 - ROLL SERVO PROVISIONS

ITEM NO.	QTY.	PART NUMBER	DESCRIPTION	NOTE	FIG
10	4	1032100	90 DEGREE ANGLE STIFFENERS 8"		2
	28	MS20426AD3-3.5	RIVET		
	15	MS20470AD4-4	RIVET	ALT PN: MS20470AD4-4.5	
	14	MS21075L08N	NUT PLATE		
	2	MS24694-S15	SCREW		
11	4	1006413-5	SPACERS		2
12	1	1032505	ADAPTER BRACKET		2
13	10	AN525-832R7	SCREW		2, 3
14	4	AN525-832R18	SCREW		2, 3

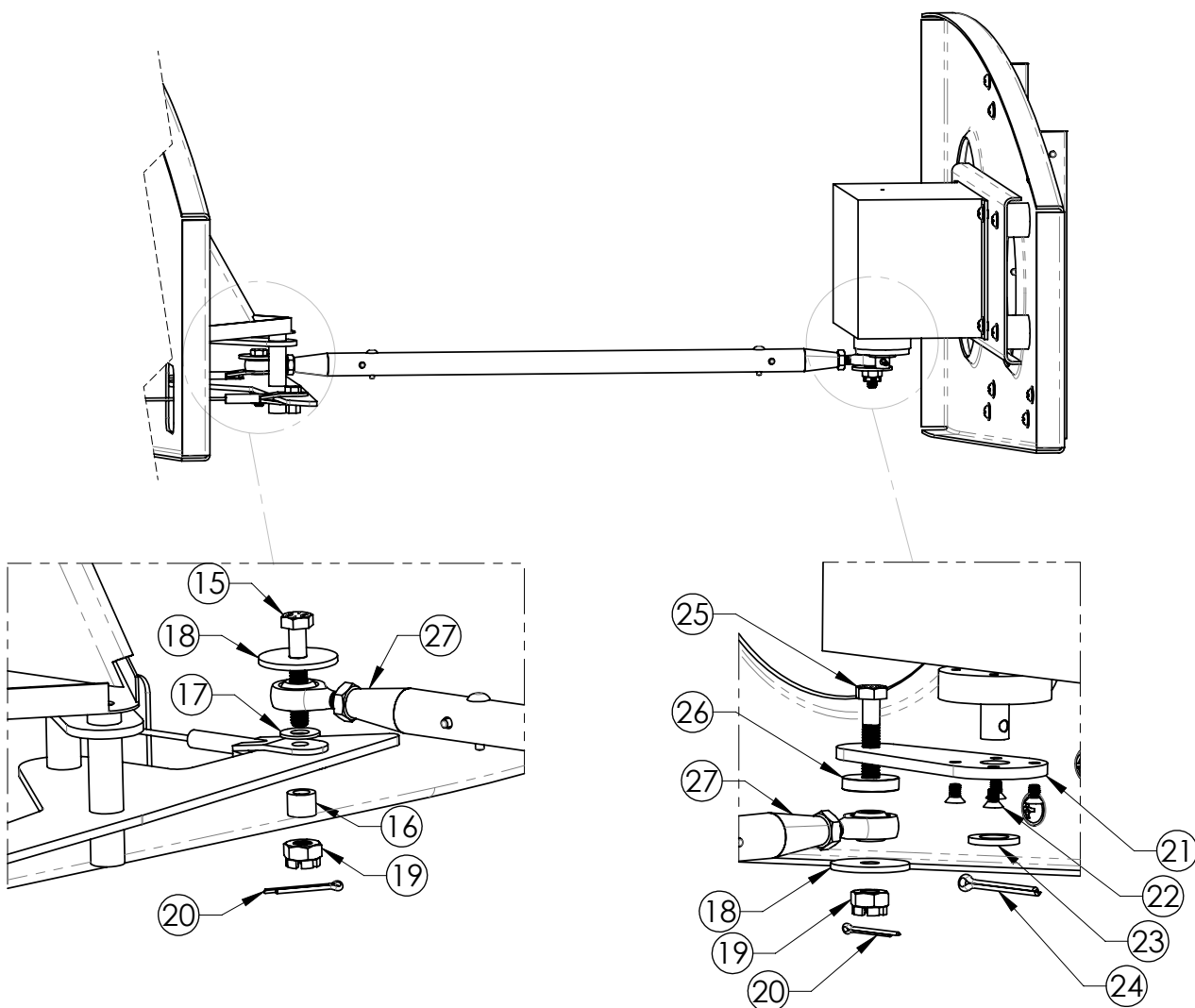


FIGURE 4 - ROLL SERVO PROVISIONS

ITEM NO.	QTY.	PART NUMBER	DESCRIPTION	NOTE	FIG
15	1	AN3-11	AN3 (10-32) CADMIUM DRILLED BOLT	ALT PN: AN23-21	4
16	1	AA309-09B	OIL IMBEDDED SLEEVE BEARING	McMaster Carr Part Number 6391K858	4
17	2	NAS1149F0332P	FLAT WASHER		4
18	2	1006411-3	FLAT WASHER	ALT PN: AN970-3	4
19	2	AN310-3	NUT - CASTELLATED		4
20	2	MS24665-134	COTTER PIN		4
21	1	1006239-1	SERVO ARM		4
22	4	1011-1006-0032	SCREW - METRIC M3x0.5x10mm		4
23	1	NAS1149F0563P	WASHER SERVO SAFETY		4
24	1	MS24665-302	COTTTER PIN SERVO SAFETY		4
25	1	AN3-7	AN3 (10-32) CADMIUM DRILLED BOLT		4
26	1	1006401-1	SPACER		4
27	1	1006406-13625	PUSH PULL TUBE ASSEMBLY		4

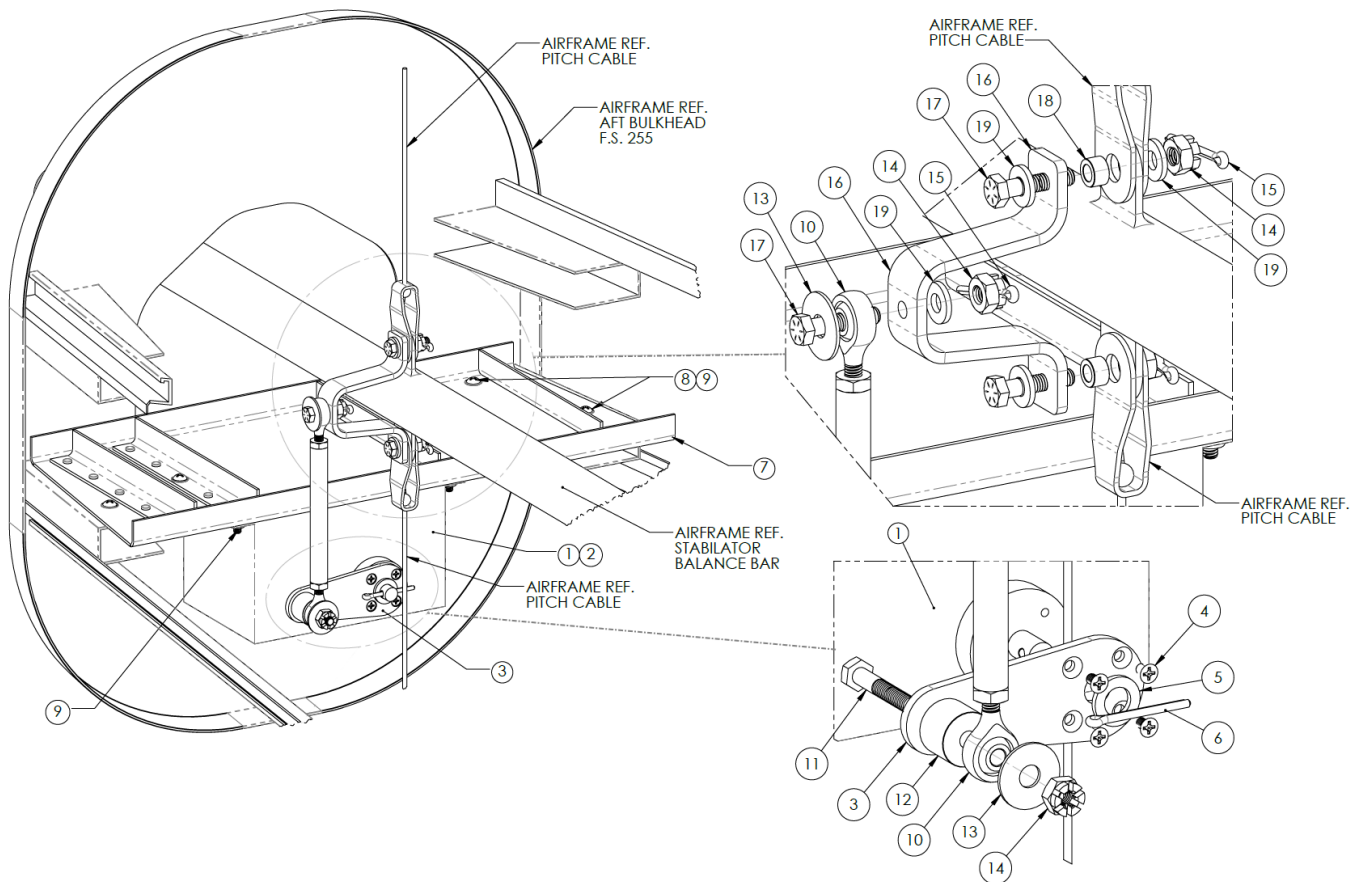


FIGURE 5 - PITCH SERVO PROVISIONS

ITEM NO.	QTY	PART NUMBER	DESCRIPTION	NOTE	FIG
1	1	31000000	SERVO CCW		4
2	1	901-115	SERVO BASEPLATE		4
3	1	1006239-1	SERVO ARM		4
4	4	1011-1006-0032	SCRW - METRIC M3x0.5 x 10MM (.394)		4
5	1	NAS1149F0563P	WASHER		4
6	1	MS24665-302	COTTER PIN		4
7	1	1028711	BRACKET ASSY. PITCH PIPER		4,5
8	4	CN614CR08P	CLICKBOND KITS (NUTPLATES)	ALT PN: MS21044N08	4
9	8	AN525-832R7	SCREW	ALT PN: MS27039-0807	4,5
10	1	1028706-4.650	ROD ASSEMBLY 3/8"		4
11	1	AN3-12	BOLT		4
12	1	1006401-4	SPACER		4
13	2	1006411-3	WASHER	ALT PN: AN970-3	4
14	4	AN310-3	CASTLE NUT		4
15	4	MS24665-134	COTTER PIN		4
16	1	1028702	PITCH ADAPTER PIPER		4
17	3	AN3-7	BOLT		4
18	2	AA309-09B	OIL IMBEDDED SLEEVE BEARING 0.120"		4
19	5	NAS1149F0363P	WASHER		4
	4	MS35338-42M	LOCK WASHER FOR SERVO SCREWS		4

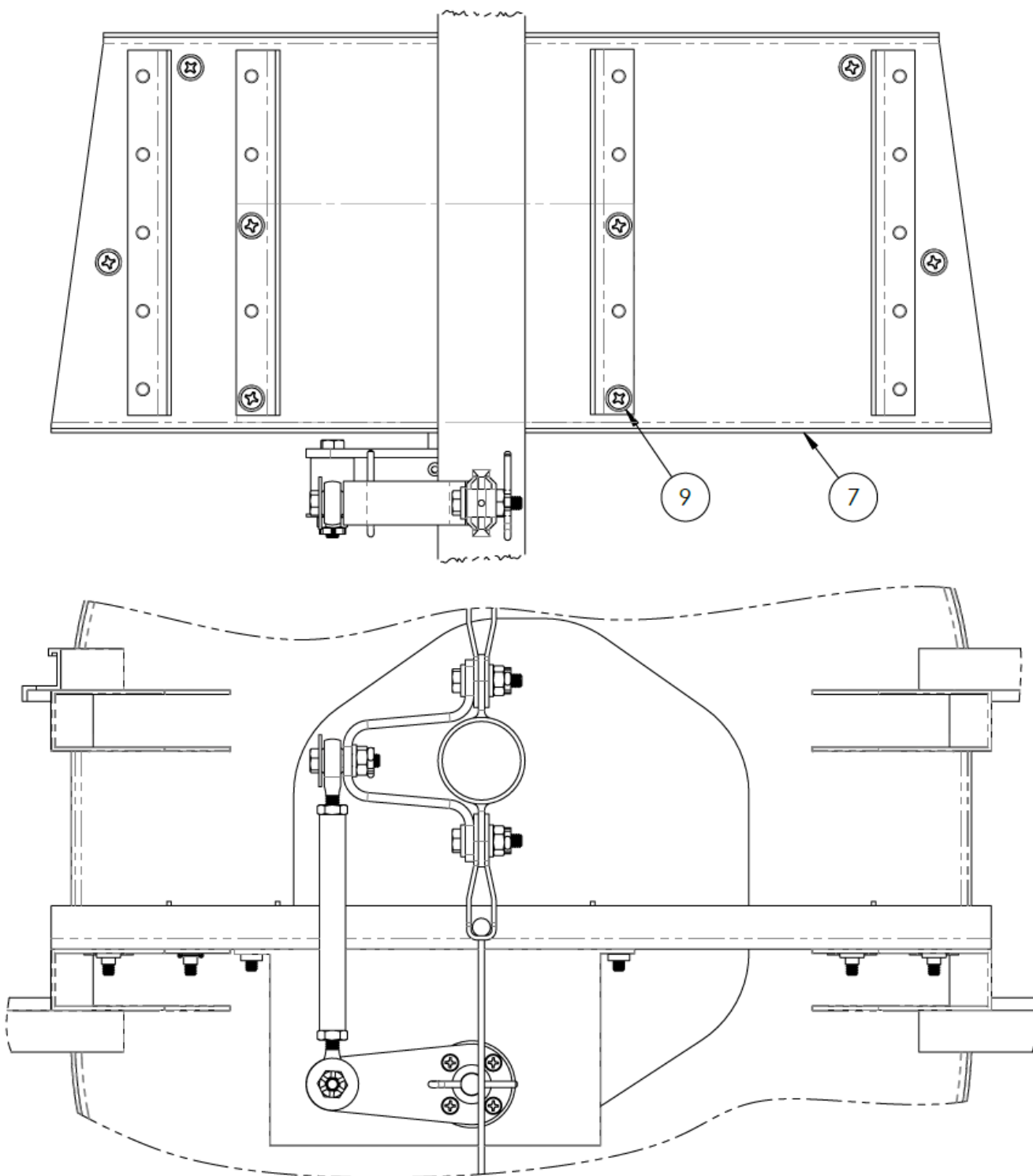


FIGURE 6 -PITCH SERVO INSTL