

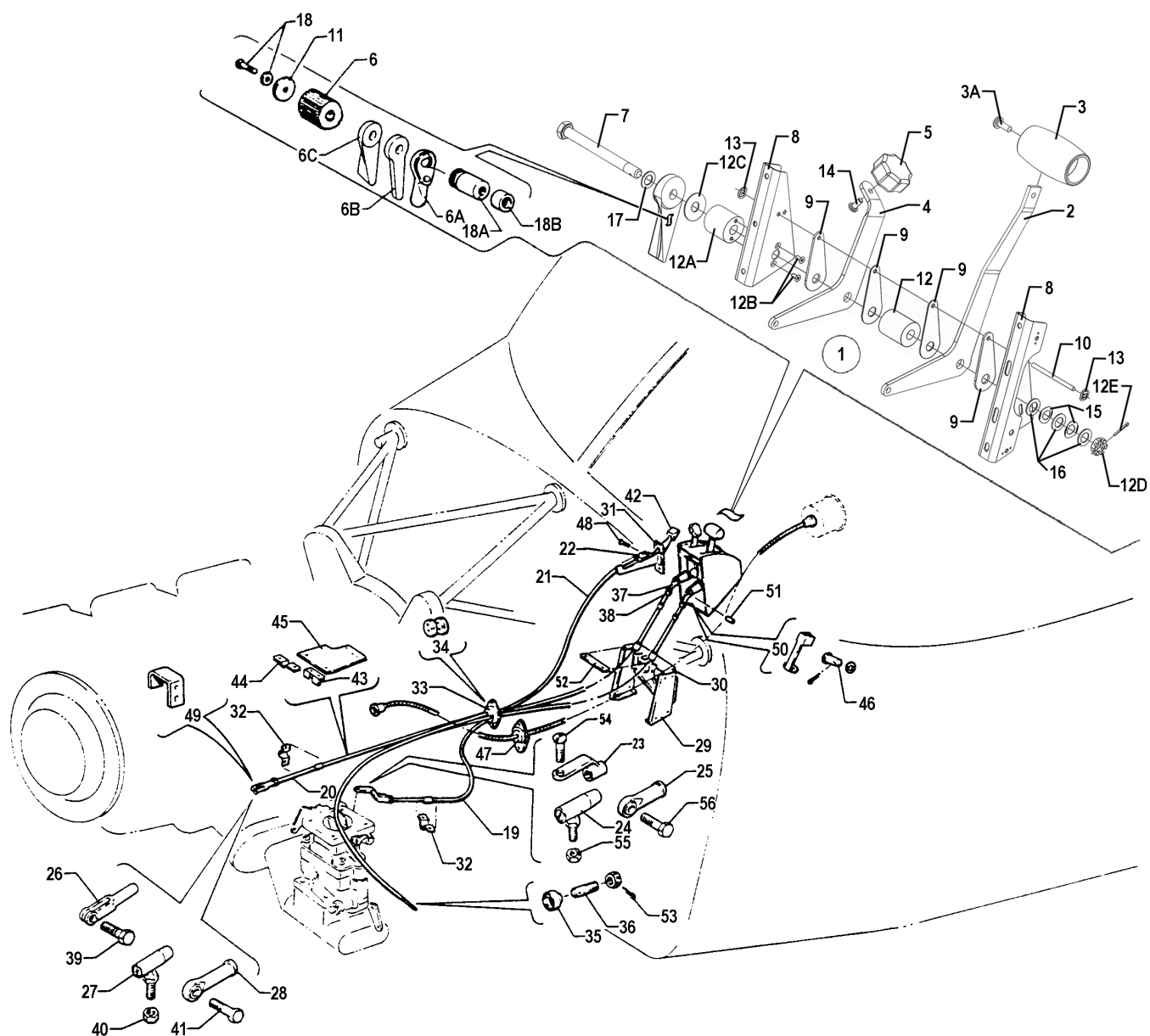


Figure 57B. Engine Controls Installation
 (PA-28-140 - Serial Nos. 28-25000 and up)
 (PA-28-180 - Serial Nos. 28-4378 and up)
 (PA-28-235 - Serial Nos. 28-11040 to 28-7210033 inclusive)

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PIPER PARTS CATALOG

Figure and Index Number	Part Number	Code	NOMENCLATURE	No. Req.	SERIAL NUMBERS AFFECTED
57B-	65848 69263 66733	B C G	DRAWING - Engine Controls Installation DRAWING - Engine Controls Installation DRAWING - Engine Controls Installation		
-1	65850-000	D	QUADRANT ASSEMBLY - Control	1	
-2	67223-000		* LEVER ASSEMBLY - Throttle	1	
-3	66979-000		* * KNOB - Throttle Lever	1	
-3a	411-532		* * SCREW - (MS35207-263)	1	
-4	67214-000		* LEVER - Mixture control	1	
-5	24048-000		* KNOB - Mixture control (571-044)	1	
-6	67220-000		* KNOB - Quadrant adjusting	1	
-6a	24358-000		* HANDLE ASSEMBLY - Quadrant adjusting (2.75" L)	1	
-6b	66773-000		* HANDLE - Quadrant adjusting (2.72" L)	1	
-6c	63039-004		* HANDLE - Quadrant adjusting (2.94" L)	1	
-7	67217-000	E	* SHAFT - Quadrant (2.46" L)	1	
	418-457	F	* SCREW - Cap (MS35291-42) (2.50" L)	1	
	400-749	H	* BOLT - (AN25-52) (3.30" L)	1	
	400-171	J	* BOLT - (AN5-30) (3.09" L)	1	
-8	67215-000	E,F	* BRACKET ASSEMBLY - Quadrant, left	1	
	67215-003	H,J	* BRACKET ASSEMBLY - Quadrant, left	1	
	67216-000		* BRACKET ASSEMBLY - Quadrant, right	1	
-9	67218-000		* PLATE - Quadrant, friction (.031 thick)	2	
	67218-002		* PLATE - Quadrant, friction (.062 thick)	2	
-10	67221-000		* PIN - Quadrant, friction plate	1	
-11	68699-003	E	* SPACER - Quadrant (.040" L)	1	
-12	68699-005		* SPACER - Quadrant (1.052" L)	1	
	68699-011		* SPACER - Quadrant (.992" L)	1	
-12a	66774-000	H,J	* CAM - Quadrant adjusting	1	
-12b	414-694	H,J	* SCREW - (MS24693-S2)	2	
-12c	62833-046	H,J	* WASHER - (.032" thick)	1	
-12d	404-394	H,J	* NUT - (AN320-5)	1	
-12e	424-051	H,J	* COTTER PIN - (MS24665-132)	1	
-13	406-369		* NUT - (Tinnerman A1037-012-3)	2	
-14	415-448		* SCREW - (AN526-832R6)	1	
-15	408-815	H,J	* WASHER - (3502-18-04)	2	
-16	690-619		* WASHER - (NAS1149F0532P)	AR	
-17	408-045	E	* WASHER - (MS35333-41)	1	
-18	415-148	E	* SCREW - (AN526-632R6)	1	
	407-041	E	* WASHER - (MS35338-41)	1	
-18a	24357-000	F	* NUT - Quadrant adjusting	1	
-18b	62714-004	F	* BEARING - Quadrant control	1	
			A - Used on PA-28-140 with serial numbers 28-25000 and up, PA-28-180 with serial numbers 28-4378 and up, and PA-28-235 with serial numbers 28-11040 to 28-7210033 inclusive. B - Used on PA-28-180 airplanes only. C - Used on PA-28-235 airplanes only D - See Figure 67A if Constant Speed Propeller is installed. E - Used if a quadrant adjusting knob (Part Number 67220-000) is installed. F - Used if a 2.75" L quadrant adjusting handle assembly (Part Number 24358-000) is installed. G - Used on PA-28-140 airplanes only. H - Used if a 2.72" L quadrant adjusting handle (Part Number 66773-000) is installed. J - Used if a 2.94" L quadrant adjusting handle (Part Number 63039-004) is installed.		

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PIPER PARTS CATALOG

Figure and Index Number	Part Number	Code	NOMENCLATURE	No. Req.	SERIAL NUMBERS AFFECTED
57B-19	455-332	C,F	CONTROL ASSEMBLY - Mixture	1	
	455-352	D,G	CONTROL ASSEMBLY - Mixture	1	
-20	455-333	C,F,H	CONTROL ASSEMBLY - Throttle	1	
	455-350	G,H	CONTROL ASSEMBLY - Throttle	1	
	67639-008	D,H	CONTROL ASSEMBLY - Throttle	1	
	760-780	J	KIT - Throttle control modification	1	
-21	66856-007	E	CABLE ASSEMBLY - Carburetor heat	1	
	66856-019	D	CABLE ASSEMBLY - Carburetor heat	1	28-25000 to 28-25821 incl.
	554-093	D	CABLE ASSEMBLY - Carburetor heat	1	28-25822 to 28-7425418 incl.
	554-094	D	CABLE ASSEMBLY - Carburetor heat	1	28-7425419 and up
	554-094	C	CABLE ASSEMBLY - Carburetor heat	1	28-11253 and up
	554-095	B	CABLE ASSEMBLY - Carburetor heat	1	28-5399 and up
A - Used on PA-28-140 with serial numbers 28-25000 and up, PA-28-180 with serial numbers 28-4378 and up, and PA-28-235 with serial numbers 28-11040 to 28-7210033 inclusive. B - Used on PA-28-180 airplanes only. C - Used on PA-28-235 airplanes only. D - Used on PA-28-140 airplanes only. E - Used on PA-28-180 with serial numbers 28-4378 to 28-5398 inclusive, and PA-28-235 with serial numbers 28-11040 to 28-11252 inclusive. F - Used on PA-28-180 with serial numbers 28-4378 to 285152 inclusive. G - Used on PA-28-180 with serial numbers 28-5153 and up. H - Reference latest revision of Piper Service Bulletin 940 on Throttle Actuated Gear Warning Horn Microswitch issue affecting PA-28R-180 aircraft with serial numbers 28R-30001 thru 28R-7130013 inclusive. J - Reference latest revision of Piper Service Letter 670. Used in PA-28-140 aircraft with serial numbers 28-25001 to 28-6331 inclusive, 28-6401 to 28-26946 inclusive, 28-7125001 to 28-7125641 inclusive, and 28-7225001 to 28-7225373 inclusive.					

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PIPER PARTS CATALOG

Figure and Index Number	Part Number	Code	NOMENCLATURE	No. Req.	SERIAL NUMBERS AFFECTED
57B-22	554-757	E	CLEVIS - Carburetor heat (MS35812-1)	1	
-23	69222-000		ARM ASSEMBLY - Mixture control	1	
-24	31747-000		BALLJOINT ASSEMBLY - Mixture control	1	
-25	452-606		BEARING - Rod end, Mixture control	1	
-26	554-757		CLEVIS - Throttle control (MS35812-1)	1	
-27	31747-000		BALLJOINT ASSEMBLY - Throttle control	1	
-28	452-606		BEARING - Rod end, throttle control	1	
-29	67206-000	G	SUPPORT ASSEMBLY - Engine controls	1	
	67206-002	D	SUPPORT ASSEMBLY - Engine controls	1	
-30	67224-000	G	* BRACKET ASSEMBLY - Engine controls	1	
	67224-003	D	* BRACKET ASSEMBLY - Engine controls	1	
-31	66855-000	F	CONTROL MOUNT - Carburetor heat	1	
	66835-000	E	CONTROL MOUNT - Carburetor heat	1	
-32	18219-002	B,C	CLAMP - Control cable	2	
A - Used on PA-28-140 with serial numbers 28-25000 and up, PA-28-180 with serial numbers 28-4378 and up, and PA-28-235 with serial numbers 28-11040 to 28-7210033 inclusive. B - Used on PA-28-180 airplanes only. C - Used on PA-28-140 airplanes only. D - Used on PA-28-180 with serial numbers 28-5153 and up, and PA-28-235 with serial numbers 28-11301 to 28-7210033 inclusive. E - Used on PA-28-140 with serial numbers 28-25822 and up, PA-28-180 with serial numbers 28-5399 and up, and PA-28-235 with serial numbers 28-11253 to 28-7210033 inclusive. F - Used on PA-28-180 with serial numbers 28-4378 to 28-5398 inclusive, PA-28-235 with serial numbers 28-11040 to 28-11252 inclusive, and PA-28-140 with serial numbers 28-25000 to 28-25821 inclusive. G - Used on PA-28-180 with serial numbers 28-4378 to 28-5152 inclusive, PA-28-235 with serial numbers 28-11040 to 28-11300 inclusive, and PA-28-140 with serial numbers 28-25000 and up.					

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Figure and Index Number	Part Number	Code	NOMENCLATURE	No. Req.	SERIAL NUMBERS AFFECTED
57B-33	18321-000	B	PLATE - Firewall seal	2	
-34	63915-021	B	DISC - Firewall seal	2	
-35	70371-002		FITTING - Swivel	1	
-36	70371-003		STUD - Swivel fitting	1	
-37	488-327		TERMINAL - (AN665-21R)	2	
-38	404-224		NUT - (AN315-3R)	4	
	407-043		WASHER - (MS35338-43)	4	
-39	400-674		SCREW - (AN23-12)	1	
	404-100		NUT - (AN310-3)	1	
	424-051		COTTER PIN - (MS24665-132)	1	
-40	690-612		WASHER - (NAS1149F0363P)	1	
	404-526		NUT - (MS21042-3)	1	
-41	400-057	C,D	BOLT - (AN3-11)	1	
	400-054	E	BOLT - (AN3-7)	1	
	95061-121	C,D	BUSHING - (O.D. .25 x I.D. .028 x L .157)	1	
	63900-078		BUSHING - (O.D. .312 x I.D. .205 x L .125)	1	
	62833-101		WASHER	1	
	690-612	C,D	WASHER - (NAS1149F0363P)	1	
	407-043	E	WASHER - (MS35338-43)	1	
	404-100		NUT - (AN310-3)	1	
	424-051		Part Number - Cotter (MS24665-132)	1	
-42	22287-000	G	KNOB - Carburetor heat	1	
	66980-000	F	KNOB - Carburetor heat	1	
-43	69011-000	C	LUG - Control cable support bracket	2	
-44	69012-000	C	CLAMP - Control cable support attachment	2	
-45	69316-000	C	BRACKET - Engine controls	1	
-46	524-145	H	PIN - (MS20392-2C11)	2	
	690-609	H	WASHER - (NAS1149F0332P)	2	
	424-051	H	COTTER PIN - (MS24665-132)	2	
A - Used on PA-28-140 with serial numbers 28-2500 and up, PA-28-180 with serial numbers 28-4378 and up, and PA-28-235 with serial numbers 28-11040 to 28-7210033 inclusive. B - Used on PA-28-140 with serial numbers 28-25000 and up, PA-28-180 with serial numbers 28-4378 to 28-7305611 inclusive, and PA-28-235 with serial numbers 28-11040 to 28-7210033 inclusive. C - Used on PA-28-235 airplanes only. D - Used on PA-28-180 airplanes only. E - Used on PA-28-140 airplanes only. F - Used on PA-28-140 with serial numbers 28-26401 and up, PA-28-180 with serial numbers 28-5601 and up, and PA-28-235 with serial numbers 28-11301 to 28-7210033 inclusive. G - Used on PA-28-140 with serial numbers 28-25000 to 28-26400 inclusive, PA-28-180 with serial numbers 28-4378 to 28-5600 inclusive, and PA-28-235 with serial numbers 28-11040 to 28-11300 inclusive. H - Used on PA-28-140 with serial numbers 28-25000 and up, PA-28-180 with serial numbers 28-4937 and up, and PA-28-235 with serial numbers 28-11051 to 28-7210033 inclusive.					

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PIPER PARTS CATALOG

Figure and Index Number	Part Number	Code	NOMENCLATURE	No. Req.	SERIAL NUMBERS AFFECTED
57B-47	68771-006		GASKET - Firewall, tachometer shaft	1	
	22103-003		PLATE - Firewall, tachometer shaft	2	
	68770-018		GROMMET - Firewall, tachometer shaft	2	
-48	400-674	B	SCREW - (AN23-12)	1	
	690-612	B	WASHER - (NAS1149F0363P)	1	
	404-100	B	NUT - (AN310-3)	1	
	424-051	B	COTTER PIN - (AN380-2-2)	1	
-49	99929-000	C	BRACKET - Throttle arm	1	
-50	24123-000	H	CLIP - Pin retainer	2	
-51	86092-082	H	PIN - Clevis terminal	2	
-52	67225-000		RETAINER - Engine controls	1	
-53	404-392	E,G	NUT - (AN320-3)	1	
	404-100	F	NUT - (AN310-3)	1	
	424-051		COTTER PIN - (AN380-2-2)	1	
	690-612	D	WASHER - (NAS1149F0363P)	1	
-54	400-673		SCREW - (AN23-11)	1	
	63900-119		BUSHING	1	
	690-612		WASHER - (NAS1149F0363P)	1	
	404-100		NUT - (AN310-3)	1	
	424-051		COTTER PIN - (MS24665-132)	1	
-55	63900-119		BUSHING	1	
	404-526		NUT - (MS21042-3)	2	
	690-612		WASHER (NAS1149F0363P)	2	
-56	400-055		BOLT - (AN3-10)	1	
	63900-119		BUSHING	1	
	63900-078		BUSHING	1	
	407-043		WASHER - (MS35338-43)	1	
	62833-101		WASHER	1	
	404-100		NUT - (AN310-3)	1	
	424-051		COTTER PIN - (MS24665-132)	1	
			A - Used on PA-28-140 with serial numbers 28-25000 and up, PA-28-180 with serial numbers 28-4378 and up, and PA-28-235 with serial numbers 28-11040 to 28-7210033 inclusive. B - Used on PA-28-140 with serial numbers 28-25822 and up, PA-28-180 with serial numbers 28-5399 and up and PA-28-235 with serial numbers 28-11253 to 28-7210033 inclusive. C - Used on PA-28-140 airplanes only. D - Used on PA-28-180 with serial numbers 28-4378 to 28-5398 inclusive, PA-28-235 with serial numbers 28-11040 to 28-11252 inclusive, and PA-28-140 with serial numbers 28-25000 to 28-25821 inclusive. E - Used on PA-28-180 airplanes only. F - Used on PA-28-180 with serial numbers 28-5153 and up. G - Used on PA-28-235 airplanes only. H - Used on PA-28-180 with serial numbers 28-4378 to 28-4936 inclusive, and PA-28-235 with serial numbers 28-11040 to 28-11050 inclusive.		

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