

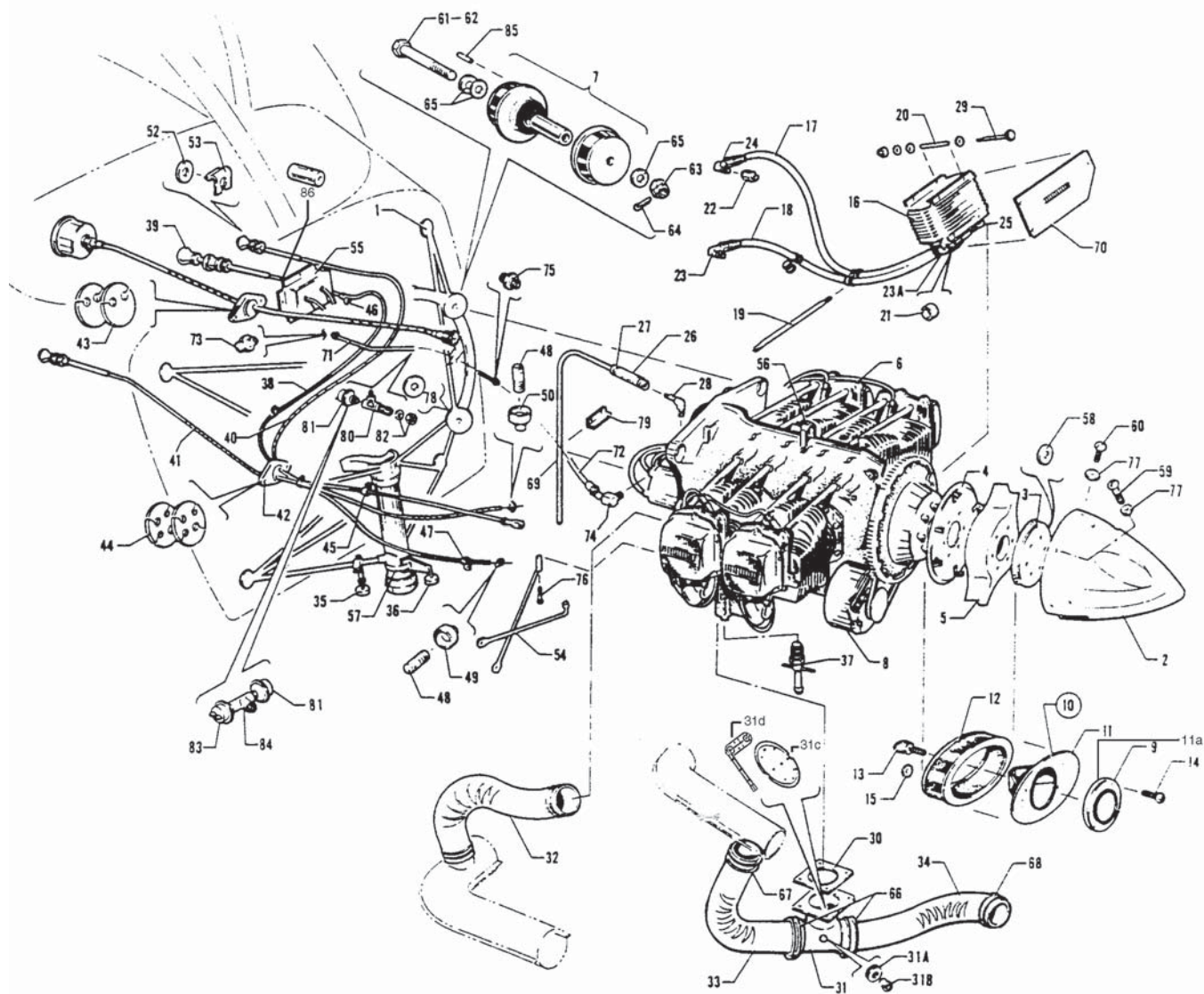


Figure 56. Powerplant Installation
 (PA 28-140 - Serial Nos. 28-20002 and up)
 (PA-28-150-160-180 - Serial Nos. 28-1 to 28-1760 inclusive)

PA-28-140
 PA-28-150
 PA-28-160
 PA-28-180

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PIPER PARTS CATALOG

Figure and Index Number	Part Number	Code	NOMENCLATURE	No. Req.	SERIAL NUMBERS AFFECTED
56-	63622	Y	DRAWING - Powerplant Installation		28-1 to 28-507 inclusive
	63689	E	DRAWING - Powerplant Installation		
	65616	X	DRAWING - Powerplant Installation		28-21096 to 28-24999 incl.
	66680	X	DRAWING - Powerplant Installation		28-25000 to 28-7125471 incl.
	99516	X	DRAWING - Powerplant Installation		28-7125472 and up
	62815	B,F	DRAWING - Engine Controls		
	63630	A	DRAWING - Landing Light and Air Filter Installation		
	63634	Y,Z	DRAWING - Oil Radiator Installation		28-1 to 28-1410 inclusive
	62157	C	DRAWING - Oil Radiator Installation		
	67795	X	DRAWING - Oil Radiator Installation		28-7125472 and up
-1	63600-024	D	MOUNT ASSEMBLY - Engine and nose gear strut	1	28-1 to 28-220 inclusive
	63600-028		MOUNT ASSEMBLY - Engine and nose gear strut	1	28-221 to 28-507 inclusive
	63694-000	Y,Z	MOUNT ASSEMBLY - Engine and nose gear strut	1	28-508 to 28-1760 inclusive
	63694-000	X	MOUNT ASSEMBLY - Engine and nose gear strut	1	28-20002 to 28-24999 incl.
	66662-000	X	MOUNT ASSEMBLY - Engine and nose gear strut	1	28-25000 and up
-2	14422-000		SPINNER - Propeller	1	
-3	66630-000	X	PLATE ASSEMBLY - Propeller mount, front	1	28-20002 and up
	66630-000	Y	PLATE ASSEMBLY - Propeller mount, front	1	28-1 to 28-1760 inclusive
	63718-000	Z	PLATE ASSEMBLY - Propeller mount, front	1	28-671 to 28-1760 inclusive
-4	62352-000	X	PLATE ASSEMBLY - Propeller mount, rear	1	28-20002 and up
	62352-000	Y	PLATE ASSEMBLY - Propeller mount, rear	1	28-1 to 28-1760 inclusive
	63717-000	Z	PLATE ASSEMBLY - Propeller mount, rear	1	28-671 to 28-1760 inclusive
A - Used on PA-28-140 with serial numbers 28-20002 and up, PA-28-150, PA-28-160 and PA-28-180 with serial numbers 28-1 to 28-1760 inclusive. B - Used on PA-28-140 with serial numbers 28-20002 to 28-24999 inclusive, and PA-28-150, PA-28-160 and PA-28-180 with serial numbers 28-1 to 28-1760. C - Used on PA-28-140 with serial numbers 28-20002 to 28-7125471 inclusive, and PA-28-150, PA-28-160 and PA-28-180 with serial numbers 28-1411 to 28-1760 inclusive. D - If Kit 754-428 has been installed, order part for serial numbers 28-221 to 28-507 inclusive. E - Used on PA-28-140 with serial numbers 28-20002 to 28-21095 inclusive, and PA-28-150, PA-28-160 and PA-28-180 with serial numbers 28-508 to 28-1760 inclusive. F - See Figure 57B for Engine Controls Installation for PA-28-140 with serial numbers 28-25000 and up. X - Used on PA-28-140 airplanes only. Y - Used on PA-28-150 and PA-28-160 airplanes only. Z - Used on PA-28-180 airplanes only.					

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

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Figure and Index Number	Part Number	Code	NOMENCLATURE	No. Req.	SERIAL NUMBERS AFFECTED	
56	-5	450-997	H PROPELLER - Sensenich M74DM-60 Pitch 140	1	28-20002 to 28-20939 inclusive	
		450-944	PROPELLER - Sensenich 74DM6-0-58 Pitch 140	1	28-20940 and up	
		450-993	PROPELLER - Sensenich M74DM-58 Pitch 150	1		
		450-997	PROPELLER - Sensenich M74DM-60 Pitch 160	1		
		450-955	PROPELLER - Sensenich M76EMM-60 Pitch 180	1		
	-6		D,E	ENGINE - Lycoming (O-320-A2B) 150 H.P.	1	
			D,E	ENGINE - Lycoming (O-320-B2B) 160 H.P.	1	
			E,G	ENGINE - Lycoming (O-320-E2A) 150 H.P.	1	
			E,G	ENGINE - Lycoming (O-320-D2A) 160 H.P.	1	
			E	ENGINE - Lycoming (O-320-A3A) 180 H.P.	1	
			E	ENGINE - Lycoming (O-320-E3D) 140 H.P.	1	
			E,F	MOUNT - Rubber bushing and washer	4	28-1 to 28-220 inclusive
	-7	475-134		MOUNT - Engine (J-6230-1)	4	28-221 to 28-507 inclusive
		475-121	C	MOUNT - Engine (J-7402-5)	4	28-508 to 28-1478 inclusive
		475-123	B,C	MOUNT - Engine (J-7402-16)	4	
		475-124	X	MOUNT - Engine (J9613-40) top left and bottom right	2	28-25000 and up
		475-125	X	MOUNT - Engine (J9613-53) top right and bottom left	2	28-25000 and up
	-8	-----	J	ALTERNATOR INSTALLATION		
	-9	63631-000	K	RETAINER RING - Landing light	1	
		63186-040	K	* SEAL - Extruded moulding (Not shown)	1	
	-10	65780-000	X	RETAINER ASSEMBLY - Air Filter and landing light	1	28-23214 and up
		65778-000	X	RETAINER ASSEMBLY - Air Filter	1	28-23214 and up
	-11	63632-007		* RETAINER ASSEMBLY - Air Filter and landing light	1	
		63632-006		* RETAINER ASSEMBLY - Air Filter	1	
				A - Used on PA-28-140 with serial numbers 28-20002 and up, PA-28-150, PA-28-160 and PA-28-180 with serial number 28-1 to 28-1760 inclusive.		
				B - Used on PA-28-140 with serial numbers 28-20002 to 28-24999 inclusive, and PA-28-150, PA-28-160 and PA-28-180 with serial numbers 28-1479 to 28-1760 inclusive.		
				C - If less than four mounts are being replaced, ascertain number which is stamped on rubber part of mount and order either 475-121 (EJ-7402-5), 475-123 (J-7402-16) or 475-110 (J-7402-24). If four mounts are being replaced, it is suggested that four of part number 475-110 (J-7402-24) be ordered for PA-28-150, PA-28-160 and PA-28-180.		
				D - Used when generator is installed.		
				E - Secure from Lycoming Division - Avco Corporation, Williamsport, PA.		
				F - If Kit 754-428 has been installed, order part for serial numbers 28-221 to 28-507 inclusive.		
				G - Used when alternator is installed.		
				H - If Family Seat Kit 756-962 or 756-941 has been installed order part for serial numbers 28-20940 and up.		
				J - See Figure 71 for component parts if a Chrysler alternator is installed See Figure 32A if a Prestolite alternator with air conditioning is installed.		
				K - See latest revision of Piper Service Bulletin 975.		
				X - Used on PA-28-140 airplanes only.		

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Figure and Index Number	Part Number	Code	NOMENCLATURE	No. Req.	SERIAL NUMBERS AFFECTED
56 -11a	63186-006	F	SEAL - Extruded moulding	1	
-11b	85174-002	F	SUPPORT ASSEMBLY - Landing light (Not shown)	1	
-12	460-632		AIR FILTER - (CA16LPL)	1	
-13	63674-000		SCREW - Thumb	1	
-14	415-741		SCREW - (AN515-6R14)	4	
-15	407-565		WASHER - (AN960-416)	1	
-16	18622-000		OIL RADIATOR	1	
-17	63635-000	B,D	LINE ASSEMBLY - Engine to oil radiator, left	1	28-1 to 28-507 inclusive
	63701-000	B,D	LINE ASSEMBLY - Engine to oil radiator, left	1	28-508 to 28-1410 inclusive
	63901-163		HOSE ASSEMBLY - Engine to oil radiator, left	2	28-1411 to 28-1760 inclusive
	63901-163	X	HOSE ASSEMBLY - Engine to oil radiator, left	2	28-20002 to 28-7125471 incl.
	63901-164	X	HOSE ASSEMBLY - Engine to oil radiator, left	2	28-7125472 and up
-18	63636-000	B,D	LINE ASSEMBLY - Engine to oil radiator, right	1	28-1 to 28-1410 inclusive
	63901-163		HOSE ASSEMBLY - Engine to oil radiator, right	2	28-1411 to 28-1760 inclusive
	63901-163	X	HOSE ASSEMBLY - Engine to oil radiator, right	2	28-20002 to 28-7125471 incl.
	63901-164	X	HOSE ASSEMBLY - Engine to oil radiator, right	2	28-7125472 and up
-19	63637-000	Y	TUBE - Oil line support	1	28-1 to 28-1410 inclusive
	63637-002	Z	TUBE - Oil line support	1	28-671 to 28-1410 inclusive
-20	86062-094	E	SPACER - Oil radiator	4	
-21	484-654		SEAL - Oil radiator lines (110-8-Y)	4	28-1 to 28-1410 inclusive
-22	451-855		ADAPTER - (W/H 3200 x 6)	1	
-23	458-957	B	ELBOW - (905-8)	1	28-1 to 28-1410 inclusive
	458-886	C	ELBOW - (AN823-8D)	1	
	458-886	X	ELBOW - (AN823-8D)	1	28-25000 and up
-23a	458-957	B	ELBOW - (905-8)	1	28-1 to 28-1410 inclusive
	458-886	C	ELBOW - (AN823-8D)	1	
	458-886	X	ELBOW - (AN823-8D)	1	28-25000 to 28-7125471 incl.
	458-896	X	ELBOW - (AN822-8D)	1	28-7125472 and up
A - Used on PA-28-140 with serial numbers 28-20002 and up, PA-28-150, PA-28-160 and PA-28-180 with serial numbers 28-1 to 28-1760 inclusive. B - If Kit 756 769 has been installed, order part for serial numbers 28-1411 to 28-1760 inclusive. C - Used on PA-28-140 with serial numbers 28-20002 to 28-24999 inclusive, PA-28-150, PA-28-160 and PA-28-180 with serial numbers 28-1411 to 28-1760 inclusive. D - Not available, Flexible Hose Kit 756-769 will be supplied as a replacement. E - Used on PA-28-140 with serial numbers 28-20002 to 28-7125471 inclusive, PA-28-150, PA-28-160 and PA-28-180 with serial numbers 28-1 to 28-1760 inclusive. F - See latest revision of Piper Service Bulletin 975. X - Used on PA-28-140 airplanes only. Y - Used on PA-28-150 and PA-28-160 airplanes only. Z - Used on PA-28-180 airplanes only.					

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Figure and Index Number	Part Number	Code	NOMENCLATURE	No. Req.	SERIAL NUMBERS AFFECTED
56 -24	458-957	C	ELBOW - (905-8)	1	28-1 to 28-1410 inclusive
	458-898	D,X	ELBOW - (AN822-8D)	1	
	458-886	X	ELBOW - (AN823-8D)	1	28-25000 and up
	458-957	C	ELBOW - (905-8)	1	
-25	458-898	D	ELBOW - (AN822-8D)	1	28-1 to 28-1410 incl.
	458-898	X	ELBOW - (AN822-8D)	1	
	458-886	X	ELBOW - (AN823-8D)	1	28-25000 to 28-7125471 incl.
	458-898	X	ELBOW - (AN822-8D)	1	
-26	82371-056		HOSE - Engine breather tube	1	28-1 to 28-507 inclusive
	63913-013	F	HOSE - Engine breather tube	1	
	63913-074	X	HOSE - Engine breather tube	1	28-25000 and up
	454-837		CLAMP - Engine breather hose (H-78000)	2	
-27	458-870	B	ELBOW - Engine to breather tube hose (AN844-10D)	1	
-28	400-464	E	BOLT - (AN3-41A)	4	28-7125472 and up
	400-438	X	BOLT - (AN3-4A)	4	
	690-612	E	WASHER - (NAS1149F0363P)	4	28-7125472 and up
	690-609	X	WASHER - (NAS1149F0332P)	4	
-29	404-526		NUT - (MS21042-3)	4	
	73451-007	Y	GASKET - Carburetor air box	1	
	73451-007	X	GASKET - Carburetor air box	1	
	63684-004	Z	GASKET - Carburetor air box	1	
-30	63601-013	Y	BOX ASSEMBLY - Carburetor air	1	28-1 to 28-1760 inclusive
	63680-000	Z	BOX ASSEMBLY - Carburetor air	1	
	63601-013	X	BOX ASSEMBLY - Carburetor air	1	28-671 to 28-1760 inclusive
	434-134	G	* GROMMET - (MS35489-11)	2	
-31a	434-129	Z	* GROMMET - (AN931-5-9)	2	28-20002 and up
	453-991	G	* BUSHING	2	
	63601-010	X,Y	* VALVE ASSEMBLY - Carburetor air	1	
	63601-200	X,Y	SHAFT ASSEMBLY - Carburetor air box	1	
-31b	63633-005	Y	HOSE - Carburetor heat shroud intake	1	28-1 to 28-707 inclusive
-31c	78035-002	Z	HOSE - Carburetor heat shroud outlet	1	
-31d	99849-002	X,Y	HOSE - Carburetor heat shroud outlet	1	28-671 to 28-1760 inclusive
-32					
-33					
			A - Used on PA-28-140 with serial numbers 28-20002 and up, PA-28-150, PA-28-160 and PA-28-180 with serial numbers 281 to 28-1760 inclusive.		
			B - Used on PA-28-140 with serial number 28-20002 and up, PA-28-150, PA-28-160 and PA-28-180 with serial numbers 28-508 to 28-1760 inclusive.		
			C - If Kit 756 769 has been installed, order part for serial numbers 28-1411 to 28-1760 inclusive.		
			D - Used on PA-28-140 with serial numbers 2820002 to 28-24999 inclusive, PA-28-150, PA-28-160 and PA-28-180 with serial numbers 28-1411 to 28-1760 inclusive.		
			E - Used on PA-28-140 with serial numbers 28-20002 to 28-7125471 inclusive, PA-28-150, PA-28-160 and PA-28-180 with serial numbers 28-1 to 28-1760 inclusive.		
			F - Used on PA-28-140 with serial numbers 28-20002 to 28-24999 inclusive, PA-28-150, PA-28-160 and PA-28-180 with serial numbers 28-508 to 28-1760 inclusive.		
			G - Used on PA-28-140, PA-28-150 and PA-28-160 airplanes with a .625 hole in the Carburetor Air Box for the air box valve shaft grommets.		
			X - Used on PA-28-140 airplanes only.		
			Y - Used on PA-28-150 and PA-28-160 airplanes only.		
			Z - Used on PA-28-180 airplanes only.		

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Figure and Index Number	Part Number	Code	NOMENCLATURE	No. Req.	SERIAL NUMBERS AFFECTED	
56 -34	99849-004	Y	HOSE - Carburetor air intake	1	28-1 to 28-1760 inclusive	
	99849-004	X	HOSE - Carburetor air intake	1	28-20002 to 28-7125471 incl.	
	99849-003	X	HOSE - Carburetor air intake	1	28-71 25472 and up	
	78035-003	Z	HOSE - Carburetor air intake	1	28-671 to 28-1760 inclusive	
	-35	63655-000	Y	SUPPORT - Bottom cowl	2	28-1 to 28-724 inclusive
	-36	63732-000	Y	DAMPENER ASSEMBLY - Bottom cowl	1	28-1 to 28-724 incl.
	-37	61879-002		VALVE ASSEMBLY - Oil drain	1	
	-38	12693-004	C,D	CABLE ASSEMBLY - Throttle control	1	
	-39	471-049	C,D	* KNOB - Throttle cable (95 black)	1	
	-40	63902-003	Y,Z	CABLE ASSEMBLY - Carburetor heat control	1	
		63902-003	X	CABLE ASSEMBLY - Carburetor heat control	1	28-20002 to 28-21095 incl.
		63902-016	C,X	CABLE ASSEMBLY - Carburetor heat control	1	28-21096 to 28-24999 incl.
	-41	63902-004	Y,Z	CABLE ASSEMBLY - Mixture control	1	
		63902-008	X	CABLE ASSEMBLY - Mixture control	1	28-20002 to 28-21095 incl.
		63902-017	C,X	CABLE ASSEMBLY - Mixture control	1	28-21096 to 28-24999 incl.
	-42	18321-000	C,D	PLATE - Firewall seal	4	
	-43	63915-003	C,D	DISC - Firewall, tachometer shaft	2	
	-44	63915-004	C,D	DISC - Firewall, mixture control cable	2	
	-45	63916-002	C,D	CLAMP - Throttle control cable	1	
	-46	554-860	C,D	CLAMP - Throttle control cable (RA-4400-1)	2	
	-47	554-890	C,D	CLAMP - Carburetor heat control cable (MS122901)	1	
	-48	70371-003	C,D	STUD - Swivel fitting (Carb Heat Control & Mixture Control)	2	
	-49	70371-002	C,D	FITTING - Swivel, (Carburetor heat control)	1	
	-50	91193-000	C,D	FITTING - Swivel, (Mixture Control)	1	
	-51	68778-000	X	ELBOW - Oil pressure	1	28-21096 and up
	-52	62833-007	C,D	WASHER - Carburetor heat control cable	1	
	-53	62978-000	C,D	CLIP - Carburetor heat control cable	1	
	-54	63964-000	B	SUPPORT ASSEMBLY - Engine controls	1	
		69317-000	X	SUPPORT ASSEMBLY - Engine controls	1	28-25000 and up
	-55	14311-039	Y,Z	BOX ASSEMBLY - Magneto filter	1	
		14311-039	X	BOX ASSEMBLY - Magneto filter	1	28-20002 to 28-23495 incl.
		65827-000	X	BOX ASSEMBLY - Magneto filter	1	28-23496 to 28-24999 incl.
			A - Used on PA-28-140 with serial numbers 28-20002 and up, PA-28-150, PA-28-160 and PA-28-180 with serial numbers 28-1 to 28-1760 inclusive.			
			B - Used on PA-28-140 with serial numbers 28-20002 to 28-24999 inclusive, PA-28-150, PA-28-160 and PA-28-180 with serial numbers 28-508 to 28-1760 inclusive.			
			C - See Figure 57B for Engine Controls Installation for PA-28-140 with serial numbers 28-25000 and up.			
			D - Used on PA-28-140 with serial numbers 28-20002 to 28-24999 inclusive, PA-28-150, PA-28-160 and PA-28-180 with serial numbers 28-1 to 29-1760 inclusive.			
			X - Used on PA-28-140 airplanes only.			
			Y - Used on PA-28-150 and PA-28-160 airplanes only.			
			Z - Used on PA-28-180 airplanes only.			

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