CARBURETORS

REPLACEMENT CARBURETORS FROM KELLY AEROSPACE



Aircraft Spruce & Specialty, as a factory distributor, offers a carburetor exchange program covering all popular Marvel Schebler/Facet general aviation carburetors. These carburetors are overhauled to the strictest industry standards and carry a full one year warranty (from date of installation). Most carburetors are available from stock or within a week and are furnished complete with gaskets. Due to the various configurations of carburetor installations, we suggest you retain your carburetor core until receiving the exchange unit. This will enable you to transfer all external fittings and installation hardware to the new exchange unit. All cores being returned for credit shall be, as removed from the engine, complete and not disassembled. A reduction in core credit is charged for missing or damaged parts.

LYCOMING CARBURETORS

A10-2828							ı	1
A10-2983 MA-3A 61383 514.00 A10-5092 HA-6 LW-12097 634.00 A10-310323 MA-4-5 68669 634.00 A10-5126 MA-3PA LW-13133 514.00 A10-3323 MA-4-5 68669 634.00 A10-5135 MA-45PA LW-13659 514.00 A10-3391-1 MA-4-5 67713 634.00 A10-5180 HA-6 LW-14016 514.00 A10-3391-1 MA-4-5 69540 634.00 A10-5189 HA-6 LW-13757 634.00 A10-3634 MA-45 69540 634.00 A10-5189 HA-6 LW-13757 634.00 A10-3678-12 MA-45PA 69250 514.00 A10-5193 MA-4-5 LW-15980 634.00 A10-3678-32 MA-45PA 72394 514.00 A10-5199 MA-3A LW-15496 514.00 A10-3678-32 MA-45PA 72394 514.00 A10-5200 HA-6 LW-1594 634.00 A10-3856 MA-4-5 69633 634.00 A10-5200-1 HA-6 LW-1594 634.00 A10-3856 MA-4-5 69633 634.00 A10-5200-1 HA-6 LW-15981 634.00 A10-3856-1 MA-4-5 634.00 A10-5206-1 HA-6 LW-15962 634.00 A10-3856-1 MA-4-5 634.00 A10-5206-1 HA-6 LW-1602 634.00 A10-3856-1 MA-4-5 71685 634.00 A10-5206-1 HA-6 LW-16082 634.00 A10-3858-1 MA-4-5 71685 634.00 A10-5206-1 HA-6 LW-15663 634.00 A10-3206-1 HA-6 LW-15663 634.00 A10-3201 HA-6 LW-15696 634.00 A10-3201 HA-6 LW-15986 634.00 A10-	Part No.	Carb. Model	O.E.M. P/N	* Our Price	Part No.	Carb. Model	O.E.M. P/N	*Our Price
A10-3103-1 MA-3A 61547 514.00 A10-5126 MA-3PA LW-13133 514.00 A10-3233 MA-4-5 6869 634.00 A10-5135 MA-4SPA LW-14016 514.00 A10-3391-1 MA-4S 67713 634.00 A10-5189 HA-6 LW-14689 634.00 A10-5189 HA-6 LW-14689 634.00 A10-5189 HA-6 LW-14689 634.00 A10-5189 MA-4-5 LW-15380 634.00 A10-5189 MA-4-5 LW-15380 634.00 A10-5189 MA-4-5 LW-15380 634.00 A10-5189 MA-4-5 LW-15380 634.00 A10-3678-12 MA-4SPA 68250 514.00 A10-5193 MA-4-5 LW-15380 634.00 A10-3678-12 MA-4SPA 72394 514.00 A10-5193 MA-4-5 LW-15380 634.00 A10-3678-12 MA-4SPA 68256 514.00 A10-5199 MA-3A LW-15896 514.00 A10-3856 MA-4-5 69633 634.00 A10-5200 HA-6 LW-15881 634.00 A10-3856-11 MA-4-5 71546 634.00 A10-5200 HA-6 LW-15881 634.00 A10-3856-11 MA-4-5 71546 634.00 A10-5206 HA-6 LW-15881 634.00 A10-3856-11 MA-4-5 71546 634.00 A10-5206 HA-6 LW-15886 634.00 A10-3856-12 MA-4-5 71685 634.00 A10-5206-1 HA-6 LW-15886 634.00 A10-3856-12 MA-4-5 71685 634.00 A10-5206-1 HA-6 LW-15866 634.00 A10-3856-12 MA-4-5 71685 634.00 A10-5206-1 HA-6 LW-15863 634.00 A10-3207-1 HA-6 LW-15863 634.00 A10-3207-1 HA-6 LW-15863 634.00 A10-3207-1 HA-6 LW-15863 634.00 A10-5211 HA-6 LW-15863 634.00 A10-5211 HA-6 LW-15863 634.00 A10-5211 MA-4-5AA 71684 634.00 A10-5211 HA-6 LW-15863 634.00 A10-4025-1 MA-4-5AA 71684 634.00 A10-5211 HA-6 LW-15865 634.00 A10-4025-1 MA-4-5AA 71684 634.00 A10-5217 HA-6 LW-15986 534.00 A10-4025-1 MA-4-5AA 71684 634.00 A10-5219 HA-6 LW-15986 534.00 A10-4025-1 MA-4-5AA 71684 634.00 A10-5219 HA-6 LW-15986 534.00 A10-4025-1 MA-4-5AA 71684 634.00 A10-5219 HA-6 LW-15986 534.00 A10-4025-1 MA-4-5AA 71684 634.00 A10-5220 MA-3PA LW-15986 534.00 A10-4024-1 MA-4-5 71710 634.00 A10-5220 MA-3PA LW-16066 634.00 A10-5220 MA-3PA LW-16066 634.00 A10-5220 MA-3PA LW-16066 63	A10-2828	MA-4-5	66458	\$634.00	A10-5062	MA-4SPA	LW-11222	\$ 514.00
A10-32323 MA-4-5PA LW-13659 514.00 A10-5135 MA-4SPA LW-14016 514.00 A10-3391-1 MA-4-5 67713 634.00 A10-5180 HA-6 LW-14016 514.00 A10-3391-1 MA-4-5 69540 684.00 A10-5189 HA-6 LW-13757 634.00 A10-3678-12 MA-MSPA 69550 514.00 A10-5193 MA-45 LW-15380 634.00 A10-3678-22 MA-ASPA 72394 514.00 A10-5199 MA-3A LW-15496 514.00 A10-3856 MA-45 69633 634.00 A10-5200-1 HA-6 LW-15804 634.00 A10-3856-11 MA-4-5 69633 634.00 A10-5206-1 HA-6 LW-15826 634.00 A10-3856-11 MA-4-5 634.00 A10-5206-1 HA-6 LW-15826 634.00 A10-3856-11 MA-4-5 634.00 A10-5206-1 HA-6 LW-16602 634.00 A10-3856-11 MA-4-5 71685 634.00 A10-	A10-2983	MA-3A	61383	514.00	A10-5092	HA-6	LW-12097	634.00
A10-3346-1 MA-3SPA 62289 514.00 A10-5142 MA-3PA LW-14016 514.00 A10-3391-1 MA-4-5 67713 634.00 A10-5189 HA-6 LW-14889 634.00 A10-3634 MA-4-5 69540 634.00 A10-5189 HA-6 LW-15757 634.00 A10-3678-12 MA-4SPA 69250 514.00 A10-5189 MA-4-5 LW-15380 634.00 A10-3678-32 MA-4SPA 72394 514.00 A10-5199 MA-3SPA 634.00 A10-5200 HA-6 LW-15504 534.00 A10-3856 MA-4-5 69633 634.00 A10-5200-1 HA-6 LW-15604 634.00 A10-3856-11 MA-4-5 71546 634.00 A10-5206 HA-6 LW-15626 634.00 A10-3856-12 MA-4-5 71685 634.00 A10-5206 HA-6 LW-15626 634.00 A10-4025 MA-4-5A 71685 634.00 A10-5210 HA-6 LW-15626 634.00	A10-3103-1	MA-3A	61547	514.00	A10-5126	MA-3PA	LW-13133	514.00
A10-38391-1 MA-4-5 67713 634.00 A10-5180 HA-6 LW-14689 634.00 A10-3678-12 MA-4-5 69540 634.00 A10-5189 HA-6 LW-13757 634.00 A10-3678-12 MA-4SPA 69250 514.00 A10-5199 MA-3A LW-15380 634.00 A10-3678-32 MA-4SPA 72394 514.00 A10-5199 MA-3A LW-15380 634.00 A10-3729 MA-3SPA 68856 514.00 A10-5200 HA-6 LW-15504 634.00 A10-3856 MA-4-5 69633 634.00 A10-5200-1 HA-6 LW-15801 634.00 A10-3856-1 MA-4-5 69633 634.00 A10-5206-1 HA-6 LW-15802 634.00 A10-3856-1 MA-4-5 634.00 A10-5206-1 HA-6 LW-15802 634.00 A10-3856-1 MA-4-5 71685 634.00 A10-5206-1 HA-6 LW-16062 634.00 A10-3856-12 MA-4-5 71685 634.00 A10-5206-1 HA-6 LW-16062 634.00 A10-3856-12 MA-4-5 71685 634.00 A10-5206-11 HA-6 LW-16062 634.00 A10-3205-11 HA-6 LW-15663 634.00 A10-4025 MA-4-5AA 71139 634.00 A10-5211 HA-6 LW-15663 634.00 A10-4025 MA-4-5AA 71684 634.00 A10-5211 HA-6 LW-15674 634.00 A10-4025-1 MA-4-5AA 71684 634.00 A10-5217 MA-4SPA LW-15985 634.00 A10-4025-12 MA-4-5AA 71684 634.00 A10-5217 MA-4SPA LW-15986 514.00 A10-401-14 MA-4-5 71710 634.00 A10-5220 MA-3PA LW-15986 634.00 A10-5220 MA-3PA LW-15986 634.00 A10-5220 MA-3PA LW-15986 634.00 A10-5220 MA-3PA LW-15966 634.00 A10-5220 MA-4-5 A10-4041 MA-4-5 72740 634.00 A10-5230 HA-6 LW-15960 634.00 A10-4041 MA-4-5 72740 634.00 A10-5230 HA-6 LW-15960 634.00 A10-4041 MA-4-5 7240 634.00 A10-5235 HA-6 LW-15960 634.00 A10-4040 MA-4-5 A10-4040 MA-4-5 A10-4040	A10-3323	MA-4-5	66869	634.00	A10-5135	MA-4SPA	LW-13659	514.00
A10-3634	A10-3346-1	MA-3SPA	62289	514.00	A10-5142	MA-3PA	LW-14016	514.00
A10-3678-12 MA-4SPA 69250 514.00 A10-5193 MA-4-5 LW-15380 634.00 A10-3678-32 MA-3SPA 68856 514.00 A10-5190 HA-6 LW-15504 634.00 A10-3886 MA-4-5 69633 634.00 A10-5200-1 HA-6 LW-15991 634.00 A10-3886-1 MA-4-5 69633 634.00 A10-5200-1 HA-6 LW-15991 634.00 A10-3886-1 MA-4-5 634.00 A10-5206-1 HA-6 LW-15981 634.00 A10-3886-1 MA-4-5 634.00 A10-5206-1 HA-6 LW-16622 634.00 A10-3886-1 MA-4-5 634.00 A10-5206-1 HA-6 LW-16062 634.00 A10-3886-12 MA-4-5 A10-3886 A10-38878 MA-4-5 A11-39 634.00 A10-5201-1 HA-6 LW-15663 634.00 A10-3201-1 HA-6 LW-15674 634.00 A10-4025-1 MA-4-5AA A11-39 634.00 A10-5211 HA-6 LW-15674 634.00 A10-4025-1 MA-4-5AA A1684 634.00 A10-5211 HA-6 LW-15986 634.00 A10-4025-12 MA-4-5AA A1684 634.00 A10-5217 MA-45PA LW-15986 514.00 A10-4025-12 MA-4-5AA A1684 634.00 A10-5217 MA-45PA LW-15986 514.00 A10-4057 (1) MA-4-5 A1684 634.00 A10-5217 MA-45PA LW-15986 514.00 A10-4164 MA-4-5 A1710 634.00 A10-5220-E MA-3PA LW-16073 514.00 A10-4164 MA-4-5 A1710 634.00 A10-5221 HA-6 LW-16066 634.00 A10-4218-1 MA-6AA 72407 634.00 A10-5224 HA-6 LW-15986 634.00 A10-4218-1 MA-6AA 72407 634.00 A10-5224 HA-6 LW-15986 634.00 A10-4218-1 MA-6AA 72307 634.00 A10-5230 HA-6 LW-15986 634.00 A10-4218-1 MA-6AA 72306 A34.00 A10-5230 HA-6 LW-15986 634.00 A10-4243-1 MA-45A 72740 634.00 A10-5230 HA-6 LW-15986 634.00 A10-438-1 MA-6AA 72306 A34.00 A10-5230 HA-6 LW-15986 634.00 A10-438-1 MA-6AA 72306 A34.00 A10-5266 HA-6 LW-15986 634.00 A10-4393 MA-4-5A 72536 A34.00 A10-5266 HA-6 LW-15986 634.00 A10-4393 MA-45A A10-439	A10-3391-1	MA-4-5	67713	634.00	A10-5180	HA-6	LW-14689	634.00
A10-3878-32 MA-45PA 72394 514.00 A10-5199 MA-3A LW-15496 514.00 A10-3729 MA-3SPA 68856 514.00 A10-5200-1 HA-6 LW-15504 634.00 A10-3856-1 MA-4-5 71546 634.00 A10-5200-1 HA-6 LW-15981 634.00 A10-3856-1 MA-4-5 71546 634.00 A10-5200-1 HA-6 LW-15626 634.00 A10-3856-11 MA-4-5 71546 634.00 A10-5200-1 HA-6 LW-15626 634.00 A10-3856-12 MA-4-5 71685 634.00 A10-5200-1 HA-6 LW-16062 634.00 A10-3856-12 MA-4-5 71685 634.00 A10-5200-1 HA-6 LW-15636 634.00 A10-3878 MA-4-5 71098 634.00 A10-5210 HA-6 LW-15663 634.00 A10-4025 MA-4-5AA 71139 634.00 A10-5211 HA-6 LW-15663 634.00 A10-4025-1 MA-4-5AA 71684 634.00 A10-5211 HA-6 LW-15985 634.00 A10-4025-1 MA-4-5AA 71684 634.00 A10-5217 MA-45PA LW-15985 634.00 A10-4025-12 MA-4-5AA 71684 634.00 A10-5217 MA-45PA LW-15985 634.00 A10-4025-12 MA-4-5AA 71684 634.00 A10-5217 MA-45PA LW-15985 634.00 A10-4025-12 MA-4-5AA 71684 634.00 A10-5219 HA-6 LW-15957 663.75 A10-4025-12 MA-4-5AA 71684 634.00 A10-5219 HA-6 LW-15957 663.75 A10-4025-12 MA-4-5A 71684 634.00 A10-5220 MA-3PA LW-16073 514.00 A10-4164-1 MA-4-5 71710 634.00 A10-5220 MA-3PA LW-16066 634.00 A10-4218-1 MA-46A 72407 634.00 A10-5221 HA-6 LW-15966 634.00 A10-4228 MA-4-5 72386 634.00 A10-5227 HA-6 LW-15959 634.00 A10-4240-1 MA-45A 73257 634.00 A10-5235 HA-6 LW-15960 634.00 A10-4329 MA-4-5 73121 634.00 A10-5235 HA-6 LW-15961 634.00 A10-4383 MA-4-5 73121 634.00 A10-5235 HA-6 LW-15961 634.00 A10-4383 MA-4-5 73257 634.00 A10-5255 HA-6 LW-15961 634.00 A10-4383 MA-4-5 73257 634.00 A10-5264 HA-6 LW-15961 634.00 A10-4395 MA-45A 73257 634.00 A10-5264 HA-6 LW-16075 634.00 A10-4395 MA-45 LW-16075 634.00 A10-5265 HA-6 LW-16097 514.00 A10-5265	A10-3634	MA-4-5	69540	634.00	A10-5189	HA-6	LW-13757	634.00
A10-3729	A10-3678-12	MA-4SPA	69250	514.00	A10-5193	MA-4-5	LW-15380	634.00
A10-3856	A10-3678-32	MA-4SPA	72394	514.00	A10-5199	MA-3A	LW-15496	514.00
A10-3856-1	A10-3729	MA-3SPA	68856	514.00	A10-5200	HA-6	LW-15504	634.00
A10-3856-11	A10-3856	MA-4-5	69633	634.00	A10-5200-1	HA-6	LW-15981	634.00
A10-3856-12 MA-4-5 71685 634.00 A10-5206-11 HA-6 LW-16413 634.00 A10-3878 MA-4-5 71098 634.00 A10-5210 HA-6 LW-15663 633.00 A10-4025 MA-4-5AA 71139 634.00 A10-5211 HA-6 LW-15985 634.00 A10-4025-11 MA-4-5AA 71684 634.00 A10-5211-1 HA-6 LW-15986 514.00 A10-4025-12 MA-4-5AA 71684 634.00 A10-5219 HA-6 LW-15986 514.00 A10-4057 (1) MA-4-5A 71684 634.00 A10-5219 HA-6 LW-15957 663.75 A10-4057 (1) MA-4-5 71664 634.00 A10-5220-E MA-3PA LW-16073 514.00 A10-4164-1 MA-4-5 71710 634.00 A10-5220 MA-3PA LW-16073 514.00 A10-4218-1 MA-6AA 72407 634.00 A10-5221 HA-6 LW-16073 514.00 A10-4329 MA-45 72386 <td>A10-3856-1</td> <td>MA-4-5</td> <td>71546</td> <td>634.00</td> <td>A10-5206</td> <td>HA-6</td> <td>LW-15626</td> <td>634.00</td>	A10-3856-1	MA-4-5	71546	634.00	A10-5206	HA-6	LW-15626	634.00
A10-3878	A10-3856-11	MA-4-5		634.00	A10-5206-1	HA-6	LW-16062	634.00
A10-4025	A10-3856-12	MA-4-5	71685	634.00	A10-5206-11	HA-6	LW-16413	634.00
A10-4025-11 MA-4-5AA 71684 634.00 A10-5217 HA-6 LW-15985 534.00 A10-4025-12 MA-4-5AA 71684 634.00 A10-5217 MA-4SPA LW-15985 514.00 A10-4025-12 MA-4-5AA 71684 634.00 A10-5217 MA-4SPA LW-15957 663.75 A10-4057 (1) MA-4-5 71684 634.00 A10-5220-E MA-3PA LW-16073 514.00 A10-4164 MA-4-5 71710 634.00 A10-5220 MA-3PA LW-16066 634.00 A10-4184 MA-4-5 71710 634.00 A10-5221 HA-6 LW-16066 634.00 A10-4218-1 MA-6AA 72407 634.00 A10-5221 HA-6 LW-15958 634.00 A10-4329 MA-4-5 72386 634.00 A10-5227 HA-6 LW-15958 634.00 A10-4329 MA-4-5 72386 634.00 A10-5227 HA-6 LW-15959 634.00 A10-4404 MA-4-5 72740 634.00 A10-5235 HA-6 LW-15959 634.00 A10-4404 MA-4-5 72740 634.00 A10-5235 HA-6 LW-15960 634.00 A10-4404-1 MA-4-5 74121 634.00 A10-5238 HA-6 LW-15961 634.00 A10-4438 MA-4-5AA 72936-Y 634.00 A10-5238 HA-6 LW-15961 634.00 A10-4438 MA-4-5AA 73257 634.00 A10-5236 HA-6 LW-15963 634.00 A10-4495 MA-4-5AA 73257 634.00 A10-5255 HA-6 LW-16028 634.00 A10-4910 MA-4SPA T7279 514.00 A10-5255 HA-6 LW-16018 634.00 A10-4953 MA-3A 77585 514.00 A10-5256 HA-6 LW-16618 634.00 A10-4953 MA-3A 77888 634.00 A10-5256 HA-6 LW-16619 634.00 A10-4978-1 MA-4SPA T7898 514.00 A10-5261 HA-6 LW-16601 634.00 A10-5267 MA-3PA LW-16601 634.00 A10-5264 HA-6 LW-16601 634.00 A10-5265 HA-6 LW-16601 634.00 A10-5266 HA-6 LW-16601 634.00 A10-52601 HA-6 LW-16601 634.00 A10-52601 HA-6 LW-16601 634.00	A10-3878	MA-4-5	71098	634.00	A10-5210	HA-6	LW-15663	634.00
A10-4025-11 MA-4-5AA 71684 634.00 A10-5217 MA-4-SPA LW-15986 514.00 A10-4025-12 MA-4-5AA 71684 634.00 A10-5219 MA-6 LW-15957 663.75 663.75 A10-4057 (1) MA-4-5 71654 634.00 A10-520-E MA-3PA LW-16073 514.00 A10-4164 MA-4-5 71710 634.00 A10-5220 MA-3PA LW-16073 514.00 A10-4164-1 MA-4-5 71710 634.00 A10-5221 HA-6 LW-16066 634.00 A10-5221 HA-6 LW-16066 634.00 A10-4218-1 MA-6AA 72407 634.00 A10-5224 HA-6 LW-16266 634.00 A10-42329 MA-4-5 72386 634.00 A10-5227 HA-6 LW-15958 634.00 A10-4329 MA-4-5 72740 634.00 A10-5230 HA-6 LW-15969 634.00 A10-4404 MA-4-5 72740 634.00 A10-5235 HA-6 LW-15960 634.00 A10-4404-1 MA-4-5 74721 634.00 A10-5238 HA-6 LW-15960 634.00 A10-4438 MA-4-5AA 72936-Y 634.00 A10-5243 HA-6 LW-15963 634.00 A10-4438 MA-4-5AA 73257 634.00 A10-5243 HA-6 LW-16028 634.00 A10-4495 MA-4-5AA 73257 634.00 A10-5255 HA-6 LW-16028 634.00 A10-4910 MA-45PA 77279 514.00 A10-5255 HA-6 LW-16625 634.00 A10-4910 MA-45PA 77279 514.00 A10-5256 HA-6 LW-16625 634.00 A10-4975 MA-6AA 77888 634.00 A10-5261 HA-6 LW-16691 634.00 A10-4975 MA-6AA 77888 634.00 A10-5261 HA-6 LW-16691 634.00 A10-5204 HA-6 LW-16691 634.00 A10-5267 MA-3PA LW-16697 514.00 A10-5267 MA-3PA LW-16690 634.00 A10-5267 MA-3PA LW-16660 634.00 A10-5267 MA-3PA LW-16660 634.00 A10-5267 MA-3PA LW-16660 634.00 A10-5267 MA-3PA LW-16660 634.00 A10-5261 HA-6 LW-18999 634.00 A10-5261 HA-6 LW-18662 634.00 A10-5261 HA-6 LW-18662 634.00 A10-5261 HA-6 LW-18662 634.00 A10-5260 HA-6 LW-18662 634.00 A10-5268 HA-6 LW-186	A10-4025	MA-4-5AA	71139	634.00	A10-5211	HA-6	LW-15674	634.00
A10-4025-12 MA-4-5AA 71684 634.00 A10-5219 HA-6 LW-15957 663.75 A10-4057 (1) MA-4-5 71654 634.00 A10-5220-E MA-3PA 514.00 A10-4164 MA-4-5 71710 634.00 A10-5220 MA-3PA LW-16073 514.00 A10-4164-1 MA-4-5 71710 634.00 A10-5221 HA-6 LW-16066 634.00 A10-4218-1 MA-6AA 72407 634.00 A10-5224 HA-6 LW-15958 634.00 A10-4329 MA-4-5 72386 634.00 A10-5227 HA-6 LW-15958 634.00 A10-4401-1 MA-6AA 72920 634.00 A10-5230 HA-6 LW-15969 634.00 A10-4404-1 MA-4-5 72740 634.00 A10-5235 HA-6 LW-15960 634.00 A10-4498-1 MA-4-5AA 72936-Y 634.00 A10-5238 HA-6 LW-15961 634.00 A10-4978-1 MA-6AA 73889 634.00	A10-4025-1	MA-4-5AA	71684	634.00	A10-5211-1	HA-6	LW-15985	634.00
A10-4057 (1)	A10-4025-11	MA-4-5AA	71684	634.00	A10-5217	MA-4SPA	LW-15986	514.00
A10-4164 MA-4-5 71710 634.00 A10-5220 MA-3PA LW-16073 514.00 A10-4164-1 MA-4-5 71710 634.00 A10-5221 HA-6 LW-16066 634.00 A10-4218-1 MA-6AA 72407 634.00 A10-5224 HA-6 LW-15958 634.00 A10-4218-1 MA-6AA 72920 634.00 A10-5227 HA-6 LW-15960 634.00 A10-4401-1 MA-6AA 72920 634.00 A10-5230 HA-6 LW-15960 634.00 A10-4404 MA-4-5 72740 634.00 A10-5238 HA-6 LW-15960 634.00 A10-4404-1 MA-4-5 74121 634.00 A10-5238 HA-6 LW-15963 634.00 A10-4438 MA-4-5AA 72936-Y 634.00 A10-5243 HA-6 LW-15963 634.00 A10-4495 MA-6AA 73899 634.00 A10-5253 HA-6 LW-16518 634.00 A10-4970 MA-4SPA 77279 514.00<	A10-4025-12	MA-4-5AA	71684	634.00	A10-5219	HA-6	LW-15957	663.75
A10-4164-1 MA-4-5 71710 634.00 A10-5221 HA-6 LW-16066 634.00 A10-4218-1 MA-6AA 72407 634.00 A10-5224 HA-6 LW-15958 634.00 A10-4329 MA-4-5 72386 634.00 A10-5227 HA-6 LW-16206 634.00 A10-4401-1 MA-6AA 72920 634.00 A10-5230 HA-6 LW-15959 634.00 A10-4404 MA-4-5 72740 634.00 A10-5235 HA-6 LW-15960 634.00 A10-4404-1 MA-4-5 74121 634.00 A10-5238 HA-6 LW-15961 634.00 A10-4438 MA-4-5AA 72936-Y 634.00 A10-5243 HA-6 LW-15963 634.00 A10-4438-1 MA-6AA 73899 634.00 A10-5254 HA-6 LW-16028 634.00 A10-4910 MA-45AA 73257 634.00 A10-5255 HA-6 LW-16518 634.00 A10-4910-1 MA-45PA 77279 514.00	A10-4057 (1)	MA-4-5	71654	634.00	A10-5220-E	MA-3PA		514.00
A10-4218-1 MA-6AA 72407 634.00 A10-5224 HA-6 LW-15958 634.00 A10-4329 MA-4-5 72386 634.00 A10-5227 HA-6 LW-16206 634.00 A10-4401-1 MA-6AA 72920 634.00 A10-5230 HA-6 LW-15959 634.00 A10-4404 MA-4-5 72740 634.00 A10-5235 HA-6 LW-15960 634.00 A10-4404-1 MA-4-5 74121 634.00 A10-5238 HA-6 LW-15961 634.00 A10-4438 MA-4-5AA 72936-Y 634.00 A10-5243 HA-6 LW-15963 634.00 A10-4438-1 MA-6AA 73899 634.00 A10-5246 HA-6 LW-16028 634.00 A10-4495 MA-45AA 73257 634.00 A10-5253 HA-6 LW-16518 634.00 A10-4910 MA-45PA 77279 514.00 A10-5255 HA-6 LW-166518 634.00 A10-4953 MA-3A 77585 514.00 <td>A10-4164</td> <td>MA-4-5</td> <td>71710</td> <td>634.00</td> <td>A10-5220</td> <td>MA-3PA</td> <td>LW-16073</td> <td>514.00</td>	A10-4164	MA-4-5	71710	634.00	A10-5220	MA-3PA	LW-16073	514.00
A10-4329 MA-4-5 72386 634.00 A10-5227 HA-6 LW-16206 634.00 A10-4401-1 MA-6AA 72920 634.00 A10-5230 HA-6 LW-15959 634.00 A10-4404 MA-4-5 72740 634.00 A10-5235 HA-6 LW-15960 634.00 A10-4404-1 MA-4-5 74121 634.00 A10-5238 HA-6 LW-15961 634.00 A10-4438 MA-4-5AA 72936-Y 634.00 A10-5243 HA-6 LW-15963 634.00 A10-4438-1 MA-6AA 73899 634.00 A10-5246 HA-6 LW-16028 634.00 A10-4495 MA-4-5AA 73257 634.00 A10-5253 HA-6 LW-16518 634.00 A10-4910 MA-4SPA 77279 514.00 A10-5255 HA-6 LW-16625 634.00 A10-4975 MA-6AA 77888 514.00 A10-5256 HA-6 LW-16677 514.00 A10-4975 MA-6AA 77888 634.00	A10-4164-1	MA-4-5	71710	634.00	A10-5221	HA-6	LW-16066	634.00
A10-4401-1 MA-6AA 72920 634.00 A10-5230 HA-6 LW-15959 634.00 A10-4404 MA-4-5 72740 634.00 A10-5235 HA-6 LW-15960 634.00 A10-4404-1 MA-4-5 74121 634.00 A10-5238 HA-6 LW-15961 634.00 A10-4438 MA-4-5AA 72936-Y 634.00 A10-5243 HA-6 LW-15963 634.00 A10-4438-1 MA-6AA 73899 634.00 A10-5246 HA-6 LW-16028 634.00 A10-4495 MA-4-5AA 73257 634.00 A10-5253 HA-6 LW-16618 634.00 A10-4910 MA-4SPA 77279 514.00 A10-5255 HA-6 LW-16625 634.00 A10-4910-1 MA-4SPA LW-16559 514.00 A10-5256 HA-6 LW-16419 634.00 A10-4975 MA-6AA 77888 634.00 A10-5257 MA-3PA LW-16677 514.00 A10-5099 MA-4SPA 77939 51	A10-4218-1	MA-6AA	72407	634.00	A10-5224	HA-6	LW-15958	634.00
A10-4404 MA-4-5 72740 634.00 A10-5235 HA-6 LW-15960 634.00 A10-4404-1 MA-4-5 74121 634.00 A10-5238 HA-6 LW-15961 634.00 A10-4438 MA-4-5AA 72936-Y 634.00 A10-5243 HA-6 LW-15963 634.00 A10-4438-1 MA-6AA 73899 634.00 A10-5246 HA-6 LW-16028 634.00 A10-4495 MA-4-5AA 73257 634.00 A10-5253 HA-6 LW-16028 634.00 A10-4910 MA-4SPA 77279 514.00 A10-5255 HA-6 LW-16625 634.00 A10-4910-1 MA-4SPA LW-16559 514.00 A10-5256 HA-6 LW-16419 634.00 A10-4953 MA-3A 77585 514.00 A10-5257 MA-3PA LW-16677 514.00 A10-4975 MA-6AA 77888 634.00 A10-5258 HA-6 LW-16691 634.00 A10-5009 MA-4SPA 78728 514.0	A10-4329	MA-4-5	72386	634.00	A10-5227	HA-6	LW-16206	634.00
A10-4404-1 MA-4-5 74121 634.00 A10-5238 HA-6 LW-15961 634.00 A10-4438 MA-4-5AA 72936-Y 634.00 A10-5243 HA-6 LW-15963 634.00 A10-4438-1 MA-6AA 73899 634.00 A10-5246 HA-6 LW-16028 634.00 A10-4495 MA-4-5AA 73257 634.00 A10-5253 HA-6 LW-16518 634.00 A10-4910 MA-4SPA 77279 514.00 A10-5255 HA-6 LW-16625 634.00 A10-4910-1 MA-4SPA LW-16559 514.00 A10-5256 HA-6 LW-16419 634.00 A10-4953 MA-3A 77585 514.00 A10-5257 MA-3PA LW-16677 514.00 A10-4975 MA-6AA 77888 634.00 A10-5258 HA-6 LW-16691 634.00 A10-5009 MA-4SPA 78728 514.00 A10-5261 HA-6 LW-16560 634.00 A10-5042 MA-4-5 LW-10064 63	A10-4401-1	MA-6AA	72920	634.00	A10-5230	HA-6	LW-15959	634.00
A10-4438 MA-4-5AA 72936-Y 634.00 A10-5243 HA-6 LW-15963 634.00 A10-4438-1 MA-6AA 73899 634.00 A10-5246 HA-6 LW-16028 634.00 A10-4495 MA-4-5AA 73257 634.00 A10-5253 HA-6 LW-16518 634.00 A10-4910 MA-4SPA 77279 514.00 A10-5255 HA-6 LW-16625 634.00 A10-4910-1 MA-4SPA LW-16559 514.00 A10-5256 HA-6 LW-16419 634.00 A10-4953 MA-3A 77585 514.00 A10-5257 MA-3PA LW-16677 514.00 A10-4975 MA-6AA 77888 634.00 A10-5258 HA-6 LW-16691 634.00 A10-5009 MA-4SPA 78739 514.00 A10-5261 HA-6 LW-16721 634.00 A10-5034 MA-4-5 LW-10064 634.00 A10-5264 HA-6 LW-16697 514.00 A10-5045 HA-6 LW-10260 634	A10-4404	MA-4-5	72740	634.00	A10-5235	HA-6	LW-15960	634.00
A10-4438-1 MA-6AA 73899 634.00 A10-5246 HA-6 LW-16028 634.00 A10-4495 MA-4-5AA 73257 634.00 A10-5253 HA-6 LW-16518 634.00 A10-4910 MA-4SPA 77279 514.00 A10-5255 HA-6 LW-16625 634.00 A10-4910-1 MA-4SPA LW-16559 514.00 A10-5256 HA-6 LW-16419 634.00 A10-4973 MA-3A 77585 514.00 A10-5257 MA-3PA LW-16677 514.00 A10-4975 MA-6AA 77888 634.00 A10-5258 HA-6 LW-16691 634.00 A10-4978-1 MA-SPA 77939 514.00 A10-5261 HA-6 LW-16721 634.00 A10-5009 MA-4SPA 78728 514.00 A10-5264 HA-6 LW-16560 634.00 A10-5042 MA-4-5 LW-10064 634.00 A10-5287 MA-3PA LW-16997 514.00 A10-5045 HA-6 LW-12060 634	A10-4404-1	MA-4-5	74121	634.00	A10-5238	HA-6	LW-15961	634.00
A10-4495 MA-4-5AA 73257 634.00 A10-5253 HA-6 LW-16518 634.00 A10-4910 MA-4SPA 77279 514.00 A10-5255 HA-6 LW-16625 634.00 A10-4910-1 MA-4SPA LW-16559 514.00 A10-5256 HA-6 LW-16419 634.00 A10-4953 MA-3A 77585 514.00 A10-5257 MA-3PA LW-16677 514.00 A10-4975 MA-6AA 77888 634.00 A10-5258 HA-6 LW-16691 634.00 A10-4978-1 MA-SPA 77939 514.00 A10-5261 HA-6 LW-16721 634.00 A10-5009 MA-4SPA 78728 514.00 A10-5264 HA-6 LW-16560 634.00 A10-5034 MA-4-5 LW-10064 634.00 A10-5267 MA-3PA LW-16097 514.00 A10-5042 MA-4-5 LW-10196 634.00 A10-5280-1 HA-6 LW-18662 634.00 A10-5045-1 HA-6 LW-12175 <t< td=""><td>A10-4438</td><td>MA-4-5AA</td><td>72936-Y</td><td>634.00</td><td>A10-5243</td><td>HA-6</td><td>LW-15963</td><td>634.00</td></t<>	A10-4438	MA-4-5AA	72936-Y	634.00	A10-5243	HA-6	LW-15963	634.00
A10-4910 MA-4SPA 77279 514.00 A10-5255 HA-6 LW-16625 634.00 A10-4910-1 MA-4SPA LW-16559 514.00 A10-5256 HA-6 LW-16419 634.00 A10-4953 MA-3A 77585 514.00 A10-5257 MA-3PA LW-16677 514.00 A10-4975 MA-6AA 77888 634.00 A10-5258 HA-6 LW-16691 634.00 A10-4978-1 MA-SPA 77939 514.00 A10-5261 HA-6 LW-16721 634.00 A10-5009 MA-4SPA 78728 514.00 A10-5261 HA-6 LW-16500 634.00 A10-5034 MA-4-5 LW-10064 634.00 A10-5267 MA-3PA LW-16097 514.00 A10-5042 MA-4-5 LW-10196 634.00 A10-5280-1 HA-6 LW-18999 634.00 A10-5045 HA-6 LW-12175 634.00 A10-5282 HA-6 LW-18663 634.00 A10-5050 MA-3PA LW-10619 <td< td=""><td>A10-4438-1</td><td>MA-6AA</td><td>73899</td><td>634.00</td><td>A10-5246</td><td>HA-6</td><td>LW-16028</td><td>634.00</td></td<>	A10-4438-1	MA-6AA	73899	634.00	A10-5246	HA-6	LW-16028	634.00
A10-4910-1 MA-4SPA LW-16559 514.00 A10-5256 HA-6 LW-16419 634.00 A10-4953 MA-3A 77585 514.00 A10-5257 MA-3PA LW-16677 514.00 A10-4975 MA-6AA 77888 634.00 A10-5258 HA-6 LW-16691 634.00 A10-4978-1 MA-SPA 77939 514.00 A10-5261 HA-6 LW-16721 634.00 A10-5009 MA-4SPA 78728 514.00 A10-5264 HA-6 LW-16560 634.00 A10-5034 MA-4-5 LW-10064 634.00 A10-5267 MA-3PA LW-16097 514.00 A10-5042 MA-4-5 LW-10196 634.00 A10-5280-1 HA-6 LW-18999 634.00 A10-5045 HA-6 LW-1260 634.00 A10-5282 HA-6 LW-18663 634.00 A10-5045-1 HA-6 LW-12175 634.00 A10-5283 HA-6 LW-18663 634.00 A10-5050 MA-3PA LW-10619 <t< td=""><td>A10-4495</td><td>MA-4-5AA</td><td>73257</td><td>634.00</td><td>A10-5253</td><td>HA-6</td><td>LW-16518</td><td>634.00</td></t<>	A10-4495	MA-4-5AA	73257	634.00	A10-5253	HA-6	LW-16518	634.00
A10-4953 MA-3A 77585 514.00 A10-5257 MA-3PA LW-16677 514.00 A10-4975 MA-6AA 77888 634.00 A10-5258 HA-6 LW-16691 634.00 A10-4978-1 MA-SPA 77939 514.00 A10-5261 HA-6 LW-16721 634.00 A10-5009 MA-4SPA 78728 514.00 A10-5264 HA-6 LW-16560 634.00 A10-5034 MA-4-5 LW-10064 634.00 A10-5267 MA-3PA LW-16097 514.00 A10-5042 MA-4-5 LW-10196 634.00 A10-5280-1 HA-6 LW-18999 634.00 A10-5045 HA-6 LW-10260 634.00 A10-5282 HA-6 LW-18662 634.00 A10-5045-1 HA-6 LW-12175 634.00 A10-5283 HA-6 LW-18663 634.00 A10-5050 MA-3PA LW-10619 514.00 A10-5288 MA-4-5 LW-18788 634.00	A10-4910	MA-4SPA	77279	514.00	A10-5255	HA-6	LW-16625	634.00
A10-4975 MA-6AA 77888 634.00 A10-5258 HA-6 LW-16691 634.00 A10-4978-1 MA-SPA 77939 514.00 A10-5261 HA-6 LW-16721 634.00 A10-5009 MA-4SPA 78728 514.00 A10-5264 HA-6 LW-16560 634.00 A10-5034 MA-4-5 LW-10064 634.00 A10-5267 MA-3PA LW-16097 514.00 A10-5042 MA-4-5 LW-10196 634.00 A10-5280-1 HA-6 LW-18999 634.00 A10-5045 HA-6 LW-10260 634.00 A10-5282 HA-6 LW-18662 634.00 A10-5045-1 HA-6 LW-12175 634.00 A10-5283 HA-6 LW-18663 634.00 A10-5050 MA-3PA LW-10619 514.00 A10-5288 MA-4-5 LW-18788 634.00	A10-4910-1	MA-4SPA	LW-16559	514.00	A10-5256	HA-6	LW-16419	634.00
A10-4978-1 MA-SPA 77939 514.00 A10-5261 HA-6 LW-16721 634.00 A10-5009 MA-4SPA 78728 514.00 A10-5264 HA-6 LW-16560 634.00 A10-5034 MA-4-5 LW-10064 634.00 A10-5267 MA-3PA LW-16097 514.00 A10-5042 MA-4-5 LW-10196 634.00 A10-5280-1 HA-6 LW-18999 634.00 A10-5045 HA-6 LW-10260 634.00 A10-5282 HA-6 LW-18662 634.00 A10-5045-1 HA-6 LW-12175 634.00 A10-5283 HA-6 LW-18663 634.00 A10-5050 MA-3PA LW-10619 514.00 A10-5288 MA-4-5 LW-18788 634.00	A10-4953	MA-3A	77585	514.00	A10-5257	MA-3PA	LW-16677	514.00
A10-5009 MA-4SPA 78728 514.00 A10-5264 HA-6 LW-16560 634.00 A10-5034 MA-4-5 LW-10064 634.00 A10-5267 MA-3PA LW-16097 514.00 A10-5042 MA-4-5 LW-10196 634.00 A10-5280-1 HA-6 LW-18999 634.00 A10-5045 HA-6 LW-10260 634.00 A10-5282 HA-6 LW-18662 634.00 A10-5045-1 HA-6 LW-12175 634.00 A10-5283 HA-6 LW-18663 634.00 A10-5050 MA-3PA LW-10619 514.00 A10-5288 MA-4-5 LW-18788 634.00	A10-4975	MA-6AA	77888	634.00	A10-5258	HA-6	LW-16691	634.00
A10-5034 MA-4-5 LW-10064 634.00 A10-5267 MA-3PA LW-16097 514.00 A10-5042 MA-4-5 LW-10196 634.00 A10-5280-1 HA-6 LW-18999 634.00 A10-5045 HA-6 LW-10260 634.00 A10-5282 HA-6 LW-18662 634.00 A10-5045-1 HA-6 LW-12175 634.00 A10-5283 HA-6 LW-18663 634.00 A10-5050 MA-3PA LW-10619 514.00 A10-5288 MA-4-5 LW-18788 634.00	A10-4978-1	MA-SPA	77939	514.00	A10-5261	HA-6	LW-16721	634.00
A10-5042 MA-4-5 LW-10196 634.00 A10-5280-1 HA-6 LW-18999 634.00 A10-5045 HA-6 LW-10260 634.00 A10-5282 HA-6 LW-18662 634.00 A10-5045-1 HA-6 LW-12175 634.00 A10-5283 HA-6 LW-18663 634.00 A10-5050 MA-3PA LW-10619 514.00 A10-5288 MA-4-5 LW-18788 634.00	A10-5009	MA-4SPA	78728	514.00	A10-5264	HA-6	LW-16560	634.00
A10-5045 HA-6 LW-10260 634.00 A10-5282 HA-6 LW-18662 634.00 A10-5045-1 HA-6 LW-12175 634.00 A10-5283 HA-6 LW-18663 634.00 A10-5050 MA-3PA LW-10619 514.00 A10-5288 MA-4-5 LW-18788 634.00	A10-5034	MA-4-5	LW-10064	634.00	A10-5267	MA-3PA	LW-16097	514.00
A10-5045-1 HA-6 LW-12175 634.00 A10-5283 HA-6 LW-18663 634.00 A10-5050 MA-3PA LW-10619 514.00 A10-5288 MA-4-5 LW-18788 634.00	A10-5042	MA-4-5	LW-10196	634.00	A10-5280-1	HA-6	LW-18999	634.00
A10-5050 MA-3PA LW-10619 514.00 A10-5288 MA-4-5 LW-18788 634.00	A10-5045	HA-6	LW-10260	634.00	A10-5282	HA-6	LW-18662	634.00
	A10-5045-1	HA-6	LW-12175	634.00	A10-5283	HA-6	LW-18663	634.00
A10-5054 MA-4-5 LW-10540 634.00 A10-6001 HA-6 LW-18987 634.00	A10-5050	MA-3PA	LW-10619	514.00	A10-5288	MA-4-5	LW-18788	634.00
	A10-5054	MA-4-5	LW-10540	634.00	A10-6001	HA-6	LW-18987	634.00

CONTINENTAL CARBURETORS

Part No.	Carb. Model	O.E.M. P/N	* Our Price	Part No.	Carb. Model	O.E.M. P/N	*Our Price
A10-2848	MA-3SPA	40366	514.00	A10-4191	MA-4-5	626859	634.00
A10-2948	MA-3SPA	40796	514.00	A10-4233	MA-3SPA	627365	514.00
A10-3168	MA-4-5	520120	634.00	A10-4240	MA-3SPA	627637	514.00
A10-3237	MA-3SPA	530490	514.00	A10-4439	MA-3SPA	628945	514.00
A10-3649-1	MA-4-5	535207	634.00	A10-4457	MA-3SPA	629175	514.00
A10-3759	MA-4-5	535207	634.00	A10-4893	MA-4-5	633027	634.00
A10-3859	MA-4-5	538872	634.00	A10-4893-1	MA-4-5	641139	634.00
A10-3859-1	MA-4-5	538872	634.00	A10-4894	MA-3SPA	633028	514.00
A10-3965-1	MA-4-5	539883	634.00	A10-4895	MA-3SPA	633029	593.75
A10-3965-11	MA-4-5	539883	634.00	A10-5067	MA-3SPA		
A10-3965	MA-4-5	539883	634.00	A10-5082	MA-3SPA	637035	514.00
A10-3965-12	MA-4-5	539883	634.00	A10-5128	MA-3SPA	640416	514.00
A10-4115-1	MA-3SPA	627143	514.00	A10-5192	MA-3SPA	641860	634.00
A10-4171	MA-4-5	626789	634.00	A10-5284	MA-4-5	646232	634.00

^{*}All prices shown are with factory acceptable exchange carburetor. Add \$400 core charge on all models (except MA-4-5, MA-4-5AA, MA-6AA, MH-A-6. These have core charge of \$500.00) to each price shown. Send exchange carburetor core to Aircraft Spruce. Upon factory approval of core, you will be refunded the core charge.

FRANKLIN ENGINE CARBURETORS ALSO AVAILABLE. ADVISE EXACT ENGINE AND CARBURETORS ALSO AVAILABLE. ADVISE ENGINE AND CARBURETOR MODEL NUMBERS AND REQUEST QUOTATION.

AIRCRAFT SPRUCE WEST CORONA, CA · (877) 4-SPRUCE

245

CARBURETOR PARTS

MARVEL-SCHEBLER FACET REPLACEMENT CARBURETOR PARTS FROM KELLY AEROSPACE

		Description.	Our Price	Mfg. Ref.	P/N 07-066xx	Description.	Our Price	Mfg. Ref.	P/N 07-066xx	Description.	Our Price
CF16-A39	01	Gasket	\$2.20	CF15-483	66	Screw	\$1.22	CF778-1005	36	Throttle Shaft	\$100.00
CF16-A42	02	Gasket	\$2.15	CF15-58	67	Screw	\$1.43	CF778-1006	37	Throttle Shaft	\$100.95
CF16-A4B	03	Gasket	\$3.70	CF15-A14	68	Screw	\$1.41	CF778-1007	38	Throttle Shaft	\$88.50
CF16-A56	04	Gasket	\$9.20	CF15-A23	69	Screw	\$1.41	CF778-1008	39	Throttle Shaft	\$66.50
CF16-B44	05	Gasket	\$3.30	CF15-B108	70	Screw	\$2.10	CF778-1009	40	Throttle Shaft	\$66.50
CF16-B45	06	Gasket	\$2.15	CF15-B109	71	Screw	\$2.40	CF778-1014	41	Throttle Shaft	\$101.95
CF16-B85	08	Gasket	\$4.85	CF15-B98	72	Screw	\$3.35	CF778-1015	42	Throttle Shaft	\$100.00
CF17-372	09	Rod	\$15.10	CF16-222	73	Gasket	\$4.95	CF778-1016	43	Throttle Shaft	\$122.95
CF17-383	10	Rod	\$13.90	CF16-224	74	Gasket	\$1.99	CF778-1017	44	Throttle Shaft	\$122.95
CF194-580	11	Pump Plunger	\$65.50	CF16-625	75	Gasket Kit	\$52.00	CF778-1018	45	Throttle Shaft	\$128.95
CF194-581	12	Pump Plunger	\$48.70	CF16-632	76	Gasket Kit	\$51.50	CF778-1019	46	Throttle Shaft	\$124.50
CF194-591	13	Pump Plunger	\$66.50	CF16-646	77	Gasket Kit	\$51.50	CF78-121	47	Washer	\$1.75
CF194-593	14	Pump Plunger	\$62.25	CF16-653	78	Gasket Kit	\$26.85	CF78-388	48	Washer	\$0.85
CF194-605	15	Pump Plunger	\$73.25	CF16-676	79	Gasket Kit	\$26.85	CF78-A109	49	Washer	\$2.30
CF233-614	16	Valve & Seat	\$58.50	CF16-696	80	Gasket Kit	\$26.70	CF78-A110	50	Washer	\$2.35
CF233-615	17	Float Valve	\$48.50	CF16-713	81	Gasket Kit	\$22.50	CF78-A111	51	Washer	\$2.20
CF24-262	18	Spring	\$1.51	CF16-735	82	Gasket Kit	\$24.40	CF78-A40	52	Washer	\$1.41
CF24-A10	19	Spring	\$3.05	CF16-A107	83	Gasket	\$2.15	CF78-A97	53	Washer	\$2.20
CF24-A115	20	Spring	\$2.60	CF16-A108	84	Gasket	\$3.05	CF81-311	54	Nut	\$3.05
CF24-A30	21	Spring	\$2.60	CF16-A16	85	Gasket	\$2.15	CF13-1519	55	Throttle Shaft	\$91.75
CF24-A33	22	Spring	\$2.60	CF16-A28	86	Gasket	\$2.45	CF13-1520	56	Throttle Shaft	\$91.75
CF29-182	23	Clip	\$7.10	CF16-A30	87	Gasket	\$2.95	CF13-1521	57	Throttle Shaft	\$82.00
CF32-32	24	Shaft	\$14.20	CF16-A31	88	Gasket	\$3.60	CF13-1522	58	Throttle Shaft	\$98.75
CF32-35	25	Shaft	\$13.40	CF16-A32	89	Gasket	\$3.05	CF13-1523	59	Throttle Shaft	\$103.95
CF32-72	26	Valve	\$10.60	CF16-A36	90	Gasket	\$2.95	CF13-1531	60	Throttle Shaft	\$90.75
CF34-91	27	Valve	\$9.10	CF82-1	91	Pin	\$0.75	CF13-1533	61	Throttle Shaft	\$108.95
CF44-220	28	Packing	\$4.20	CF82-11	92	Pin-Cotter	\$0.86	CF155-226	62	Lever	\$11.00
CF44-223	29	Packing"O" Ring	\$4.90	CF82-14	93	Pin-Cotter	\$0.86	CF155-307	63	Lever	\$18.75
CF44-224	30	Packing	\$4.20	CF99-44	94	Plug	\$6.10	CF15-126	64	Screw	\$3.75
CF44-49	31	Packing	\$10.10	CF99-8	95	Plug	\$8.30	CF43-648	07-06702	Needle	\$19.40
CF60-260	32	Bushing	\$9.85	CF47-850	96	Nozzle	\$95.75	CF43-564	07-06701	Needle	\$24.30
CF60-A160	33	Bushing	\$14.70	CF47-851	97	Nozzle	\$82.50				
CF778-1003	34	Throttle Shaft	\$105.95	CF47-852	99	Nozzle	\$99.95				
CF778-1004	35	Throttle Shaft	\$101.95								

NOTE: Order Carburetor parts by 07-066xx part numbers.



SERVICE MANUAL

Marvel-Schebler aircraft carburetor parts and service manual covering detailed parts list, overhaul data, price list. Includes subscription service.

P/N 07-05400**\$98.50**

REPLACEMENT CARBURETOR VENTURI'S (ONE PIECE)

These one piece Venturis replace old type primary and main Venturis in Marvel-Schebler carburators. Order by new Venturi part number.

Old Main Venturi	New 1-Piece Venturi	Our Price	Old Main Venturi	New 1-Piece Venturi	Our Price
46-462	46-F7	\$82.75	46-A2	46-F10	\$44.60
46-486	46-F8	\$76.95	46-A65	46-F11	\$77.25
46-498	46-F9	\$77.25	46-A70	46-F12	\$45.20



FLOAT NEEDLE SEAT DRIVER

This Float Needle Seat Driver is applicable to Marvel-Schebler MA3 and MA4 carburetors and is quality made of alloy steel. It facilitates the easy removal of needle valve seats, prevents damage to the main casting and the new seat during installation, and insures proper torque application. Features 7/16" hex drive fitting.

P/N 12-30190.....**\$61.00**



REPLACEMENT FLOAT KITS

1984 FAA Service Bulletin A1-84 recommends replacing old Marvel-Schebler floats with the following float kits which feature metal floats to replace old plastic floats:

Kit 666-915	List <u>Price</u>	Our <u>Price</u>
44-SPA	\$140.25	\$79.50
	\$144.25	\$85.50
	\$148.75	\$87.25
4 #233-615	P/N 07-06617	\$48.50
5 #233-614	P/N 07-06616	\$58.50
	A4-SPA 	

REPAIR KITS & PARTS FOR COMMON MARVEL-SCHEBLER CARBURETORS

Lycoming	Marvel-Schebler		Major Repair Kit
No.	Kit P/N Carb P/N		Price
62289	286-1628	10-3346-1	\$561.00
69250	286-1624	10-3678-12	\$478.95
62830	286-1630	10-3565-1	\$772.00

NOTE: Many Marvel-Schebler replacement parts are no longer available from Facet. On items not priced in table above, order a minor or major repair kit. Major kits are priced above and minor kits are quoted on request.

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246

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CARBURETORS

CARBURETOR OVERHAUL QUICK KITS

Kelly Aerospace "Quick Kits" are easy to use, and are designed to save you time and money. Quick Kits include not only the recommended replacement parts used in every overhaul, but the additional parts used by all fuel professionals to insure the job is done right.

Kits include (where applicable): Throttle shaft lever, throttle shaft, throttle adjusting screw, throttle valve screws, inlet strainer screws, throttle body screws, mixture control lever screw, gasket kit, pump connection rod, throttle adjustment spring, throttle opening spring, idle adjustment spring, float lever shaft, pump stem, throttle shaft bushings, inlet strainer washer, pump stem retainer washer, mixture control lever washer, throttle body washers, throttle lever lock nut, float shaft cotter pin, throttle nut cotter pin, pump lever, pump plunger assembly and float valve seat assembly.

FRANKLIN	CARBURETORS	CONTINENTA	AL CARBURETORS	LYCOMING	CARBURETORS	LYCOMING	CARBURETORS	KIT	
P/N	"QUICK KIT" P/N	P/N	"QUICK KIT" P/N	P/N	"QUICK KIT" P/N	P/N	"QUICK KIT" P/N	P/N	PRICE
10-2971-P	CF286-02	10-4457	CF286-02	10-3856-1	CF286-06	10-5142	CF286-01	CF286-00	\$151.95
10-3007	CF286-06	10-4893	CF286-05	10-3856-11	CF286-06	10-5180	CF286-10	CF286-01	\$206.95
10-3063-2	CF286-06	10-4893-1	CF286-05	10-3856-12	CF286-06	10-5189	CF286-10	CF286-02	\$206.95
10-3148-1	CF286-06	10-4894	CF286-02	10-3878	CF286-08	10-5193	CF286-08	CF286-03	\$210.95
10-3479	CF286-06	10-4894-1	CF286-02	10-4057	CF286-09	10-5199	CF286-00	CF286-04	\$198.95
10-5069	CF286-02	10-4895	CF286-03	10-4057-1	CF286-09	10-5206	CF286-10	CF286-05	\$323.95
10-5093	CF286-00	10-4895-1	CF286-03	10-4164	CF286-08	10-5206-1	CF286-10	CF286-06	\$315.95
CONTINENT	AL CARBURETORS	10-5067	CF286-02	10-4164-1	CF286-07	10-5206-11	CF286-10	CF286-07	\$315.95
P/N	"QUICK KIT" P/N	10-5082	CF286-02	10-4404	CF286-09	10-5210	CF286-10	CF286-08	\$315.95
10-2848	CF286-02	10-5128	CF286-02	10-4404-1	CF286-09	10-5217	CF286-04	CF286-09	\$315.95
10-2948	CF286-02	10-5192	CF286-05	10-4910	CF286-04	10-5219	CF286-11	CF286-10	\$315.95
10-3168	CF286-05	10-5284	CF286-05	10-4910-1	CF286-04	10-5220-E	CF286-01	CF286-11	\$315.95
10-3237	CF286-03	LYCOMING	CARBURETORS	10-4953	CF286-00	10-5220	CF286-01	CF286-12	\$246.95
10-3649-1	CF286-05	P/N	"QUICK KIT" P/N	10-4978-1	CF286-01	10-5221	CF286-12		
10-3759	CF286-05	10-2827	CF286-07	10-5009	CF286-04	10-5224	CF286-11		
10-3859	CF286-05	10-2983	CF286-00	10-5009N	CF286-04	10-5227	CF286-12		
10-3859-1	CF286-05	10-3103-1	CF286-00	10-5034	CF286-07	10-5230	CF286-11		
10-3965	CF286-05	10-3323	CF286-07	10-5042	CF286-00	10-5235	CF286-11		
10-3965-1	CF286-05	10-3646-1	CF286-02	10-5045	CF286-10	10-5253	CF286-11		
10-4171	CF286-05	10-3391-1	CF286-06	10-5045-1	CF286-10	10-5255	CF286-11		
10-4191	CF286-05	10-3565-1	CF286-02	10-5050	CF286-01	10-5257	CF286-01		
10-4233	CF286-02	10-3634	CF286-06	10-5054	CF286-09	10-5267	CF286-01		
10-4240	CF286-02	10-3678-12	CF286-04	10-5062	CF286-04	10-5282	CF286-11		
10-4240-1	CF286-02	10-3678-32	CF286-04	10-5092	CF286-10	10-5283	CF286-11		
10-4252	CF286-02	10-3729	CF286-02	10-5126	CF286-01	10-5288	CF286-08		
10-4439	CF286-03	10-3856	CF286-06	10-5135	CF286-04	10-6014	CF286-11		



ELLISON CARBURETORS

Ellison variable venturi throttle body injectors provide reliable fuel metering for a variety of homebuilt engine applications. Features include uniform fuel distribution, inverted flight operation, few moving parts, instantaneous response, easy starting, light weight, and low maintenance. When ordering, specify: Engine make, engine model/HP and displacement and RPM.

MODEL	P/N EFS-10	P/N EFS4-5	P/N EFS-4	P/N EFS-5	P/N EFS-3A
AIRFLOW CAPACITY*	700 CFM	400 CFM	350 CFM	400 CFM	
FUEL REGULATION	Dual Value Diaphragm Controlled	Dual Value Diaphragm Controlled	Single Value Diaphragm Controlled	DV Diaphragm Controlled	SV Diaphragm Controlled
APPLICATION	280-350 HP Aircraft	180-260 HP Aircraft	145-160 HP Aircraft	180-260 HP	>80 HP
FUEL PRESSURE REQUIREMENTS**	7-15 PSI	2-6 PSI	2-6 PSI	2-6 PSI	1/2 - 3 PSI
CONTROLLABLE MIXTURE	Yes	Yes	Yes	Yes	Yes
FUEL FITTING	1/2 Flared Tube	3/8 Flared Tube	3/8 Flared Tube	3/8 Flared Tube	3/8 Flared Tube
PRICE	\$1,995.00	\$1,645.00	\$1,425.00	\$1,750.00	\$1,750.00\$825.00

Accessories: Right Angle Fuel Fitting \$25.00 Plenum Box \$315.00 Cable Clamp \$55.00

BENDIX STROMBERG NA-S3A1 CARBURETOR OVERHAUL PARTS FOR NA-S3A1 CARBURETOR

The NA-S3A1 carburetor is no longer in production. Only the parts listed are carried in stock. Others may be special ordered. Originally used on Cont. A-65, A-75, A-80, C-75, C-85 and C-90 engines.

	,,	J
Gasket & Ring Set (Incl. gaskets for under seat)	P/N 07-02200	\$30.18
P-14222 Needle(Steel) & P17247 Set	P/N 07-14222	\$110.95
Needle (Delrin)	P/N 2523047	\$99.35
Metering Jet (Ć-85)		
Metering Jet (A-65)	P/N P7881-49	\$12.50

Throttle Shaft (Ref. #34 in Manual) not available.

STROMBERG NA-S3A1 CARBURETOR OVERHAUL MANUAL

P/N 07-02400\$	1	1		9	ļ	ā
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*The P/N 390077 needle is still available but recent testing has determined that neoprene needles can expand when used with 100 LL avgas and unleaded auto fuels leading to engine damage from excessively lean operation. Recommended substitute is the P/N 2523047 Delrin needle or P14222 Steel Needle. Use P/N 390077 needle at your own discretion only.

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247

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BING CARBURETORS

COMPLETE CARBURETORS – TYPE 54

To Order, Specify:

- Model indicated by engine number 277, 377, 447, 503, or 532.
 With intake silencer or Without intake
- 3. Single Carb or Dual Carb.
- 4. Hand Choke or Remote Choke.

Model # 54/36/2040

P/N 07-00303**\$187.95**

TYPE 54 REBUILD KIT

#17 Top O Ring #29 Bowl Gasket #25 Hinge Pin

#7 Air Screw O Ring #26 Float Needle #10 Sieve Sleeve (Screen)

#21 Cable Grommet

P/N 07-00304\$24.85

TYPE 54 FIX-IT KIT

#12 New Spring Cup

#56 Jet Needle O Ring

#11 Clip

ΕP

P/N 07-00305\$10.00

COMPLETE CARBURETORS – TYPE 84



To Order, Specify:

- 1. Model indicated by engine number 277, 377, 447, 503, or 532.
- 2. With intake silencer or Without intake
- 3. Single Carb or Dual Carb.
- 4. Hand Choke or Remote Choke.

Model # 84/32/3437

P/N 07-00306\$189.95

TYPE 84 REBUILD KIT

#17 Top O Ring #29 Bowl Gasket

#7 Air Screw O Ring #26 Float Needle

#10 Sieve Sleeve (Screen) #25 Hinge Pin P/N 07-00307......**\$31.40** #21 Cable Grommet

ROTAX FLOAT & BOWL KIT

This float and bowl kit replaces a single float system. Includes float needle valve, clip float needle, float pin, float bracket, float chamber, and the float.

P/N 261-010\$54.00

BING CARBURETOR ACCESSORIES

Bing Remote Choke Kit (w/8' cable) P/N 07-00308 \$41.40 Bing Remote Choke Kit (w/o cable) P/N 07-00309 \$20.70 Bing Aircraft Parts manualP/N 07-00310 \$12.20

MERCURY CARB SYNCHRONIZER



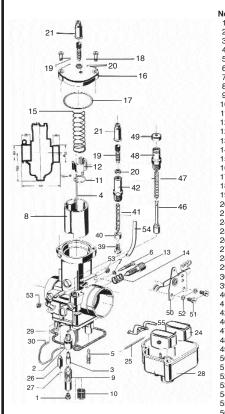
The Motion Pro is the most accurate and convenient carburetor synchronizer available. Features large, clear columns for easy

viewing, two CM Indica spacing to determine when you are within factory specs laboratory grade mercury, and tough, injection molded construction. Imported.

P/N 07-00311\$48.40

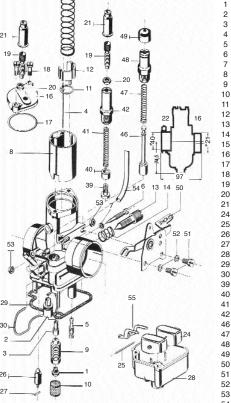
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REPLACEMENT PARTS - TYPE 54



о.	Part No.	Description	Price
1	268-978-998	Main Jet	\$6.70
2	251-554	Atomizer	\$14.20
3	963-691-699	Needle Jet	\$10.50
4	963-711-719	Jet Needle	\$7.50
5	963-140-147	Idler Jet	\$19.90
3	963-155	Air Screw	\$7.10
7	831-710	O Ring	\$1.92
3	963-679	Piston	\$62.00
9	963-700	Mixing Tube	\$12.70
0	261-625	Sieve Sleeve	\$5.60
1	963-500	Clip	\$5.00
2	827-345	Stock Spring Cup	\$5.50
2	827-347	New Style Spring Cup	\$4.85
3	963-160	Mix Screw	\$5.20
4	938-640	Spring	\$1.97
5	938-655	Slide Spring	\$3.85
6	963-720	Cover Plate	\$16.60
7	831-450	O Ring	\$4.45
8	241-430	Screw	\$0.97
9	241-440	Adjuster	\$3.05
0	942-541	Nut	\$0.77
1	260-370	Grommet	\$1.98
4	861-181	Indep. Float	\$21.40
5	929-700	Pivot Pin	\$1.39
6	261-705	Float Needle	\$21.40
7	261-710	Clip	\$1.13
8	261-010	Bowl Kit (bowl,24-27,55)	\$54.00
9	830-720	Gasket	\$5.60
0	963-180	Bowl Clip	\$5.90
9	963-740	Piston	\$6.30
0	268-850	Sleeve	\$2.50
1	661-050	Spring	\$1.27
2	963-750	Housing	\$9.50
6	268-847	Piston	\$14.40
7	239-730	Spring	\$2.70
8	261-770	Housing	\$7.60
9	260-490	Rubber Cap	\$3.70
0	261-755	Choke Lever	\$17.60
1	240-791	Screw	\$0.86
2	945-750	Washer	\$0.94
3	261-200	Nut	\$0.84
4	256-035	Vent Tube	\$2.45
5	861-190	Float Arm	\$11.20
6	831-715	Jet Needle O Ring	\$0.95

REPLACEMENT PARTS - TYPE 84



о.	Part No.	Description	Price
ı	268-980	Main Jet 135	\$6.90
2	261-692	Atomizer	\$17.70
3	261-606	Needle Jet 262	\$10.10
1	261-643	Jet Needle 8H1	\$8.80
5	963-140	Idler Jet 50	\$19.90
3	963-155	Air Screw	\$7.10
7	831-710	O Ring	\$1.92
3	261-635	Piston	\$52.00
9	963-130	Jet Stock	\$12.80
0	261-625	Screen	\$5.60
1	261-650	Holding Plate	\$5.40
2	227-635	Spring Cup	\$4.80
3	963-160	Mix Screw	\$5.20
4	938-640	Spring	\$1.97
5	239-700	Slide Spring	\$4.25
6	261-660	Cover	\$14.60
7	261-670	O Ring	\$5.30
8	241-430	Screw	\$0.97
9	241-440	Adjust. Screw	\$3.05
0	942-541	Nut	\$0.77
1	260-370	Grommet	\$1.98
4	963-192	Float	\$36.40
5	929-700	Pin	\$1.39
6	261-705	Float Needle	\$21.40
7	261-710	Clip	\$1.13
8	963-170	Bowl	\$25.60
9	830-720	Gasket	\$5.60
0	963-180	Spring Cup	\$5.90
9	963-740	Piston	\$6.30
0	268-850	Sleeve	\$2.50
1	661-050	Spring	\$1.27
2	963-750	Housing	\$9.50
6	268-847	Piston	\$14.40
7	239-730	Spring	\$2.70
8	261-770	Housing	\$7.60
9	260-490	Rubber Cap	\$3.70
0	261-750	Lever	\$12.70
1	240-791	Screw	\$0.86
2	945-750	Washer	\$0.94
3	261-200	Nut	\$0.84
4	256-033	Vent Line	\$2.45

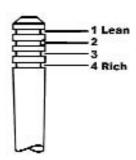
CARBURETOR PARTS



CARBURETOR JETTING CHART FOR ROTAX® UL ENGINES

Use this chart to identify part number you need, then use bottom chart to select correct part number to order.

	\$6.75	\$16.95	\$9.30	\$6.80		
	ψ0.75	\$10.55	ψ3.50	φυ.υυ		
ROTAX®	MAIN	IDLER	NEEDLE	JET	CLIP	AIR
ENGINE	JET	JET	JET	NEEDLE	POSITION	SCREW
277¹	148	45	2.72	8L2	2	1
277 ²	140	45	2.72	8L2	2	1
377¹	165	45	2.70	802	2	.5
377 ²	155	45	2.70	802	2	.5
4471	165	45	2.70	15K2	2	.5
447 ²	155	45	2.70	15K2	2	.5
447DC1	135	50	2.70	6G1	3	1
447DC ³	128	50	2.68	15K2	2	1
503SC1 Up to #3785371	180	45	2.74	8G2	3	.5
503SC ² Up to #3785371	158	45	2.74	6H2	3	.5
503SC1 From #3785372 Up	185	45	2.72	15K2	3	.5
503SC ² From #3785372 Up	165	45	2.70	15K2	3	.5
503DC1	158	45	2.74	8L2	1	.5
503DC ³	148	45	2.68	11K2	2	1
532SC1	195	55	2.74	15K2	3	1
532SC ³	170	55	2.74	15K2	3	1
532DC1	165	55	2.72	11G2	3	1
532DC ³	145	55	2.68	15K2	3	1
582¹	165	55	2.72	11G2	3	1
582³	145	55	2.68	15K2	3	1



- 1 = Without Rotax® intake silencer kit, with K&N RC1200 air filter, with or without Rotax® after muffler kit.
- 2 = With Rotax® intake silencer kit, with K&N CM0300 air filter, with or without Rotax® after muffler kit.
- 3 = With Rotax® dual intake silencer kit, with K&N RC1200 air filters, with or without Rotax® after muffler kit.



MAIN JET

125 = Part No. B268-978 128 = Part No. R261-085 130 = Part No. R268-979 135 = Part No. B268-980 138 = Part No. R268-998 140 = Part No. R268-981 145 = Part No. R268-982 148 = Part No. R268-995 150 = Part No. R268-983 155 = Part No. R268-984 158 = Part No. R268-996 160 = Part No. R268-985 162 = Part No. R268-990 165 = Part No. R268-986 170 = Part No. R268-987 175 = Part No. R268-988 180 = Part No. R268-989 185 = Part No. R261-080 190 = Part No. R261-084 195 = Part No. R268-992 200 = Part No. R261-082 205 = Part No. R261-087 220 = Part No. R261-081

JET NEEDLE

2H2 = Part No. R963-717 4E2 = Part No. R963-716 6G1 = Part No. R261-642 6H2 = Part No. R963-719 8G2 = Part No. R963-712 8H1 = Part No. R261-643 8L2 = Part No. R963-714 8O2 = Part No. R963-711 1O = Part No. R961-045 11G2 = Part No. R961-043 11K2 = Part No. R961-044 15K2 = Part No. R963-718



IDLER JET

30 = Part No. R963-141 35 = Part No. R963-143 40 = Part No. R963-142 45 = Part No. R963-144 50 = Part No. R963-140 55 = Part No. R963-147 60 = Part No. R963-145 65 = Part No. R963-146



NEEDLE JET

2.62 = Part No. R261-606 2.68 = Part No. R963-691 2.70 = Part No. R963-698 2.72 = Part No. R963-697 2.74 = Part No. R963-699 2.76 = Part No. R963-693 2.78 = Part No. R963-696 2.80 = Part No. R963-695 2.82 = Part No. R963-694 2.94 = Part No. R961-022

JET NEEDLE

Needle Clip

P/N 07-00693**\$5.00**

6 F 1 10 10 10 10

Lower numbers indicate smaller jet size or opening.

Low numbers = lean. High numbers = rich.

First needle number denotes mix-

ture above half-throttle.

Needle letter denotes mixture below half-throttle.

SILVERHAWK EX FUEL INJECTION SYSTEMS



The Silver Hawk EX, non-certified Fuel Injection System is porven technology drawn from decades of fuel metering engineering by Precision Airmotive. Manufactured as experimental, the new Silver Hawk kit provides experimental pilots with precise, dependable, and reliable fuel metering. Just what you'd excpect from Precision Airmotive.

At a price that will make you soar. Manufactured using the highest

quality materials and components, the Silver Hawk EX features a machined finish with clear coat anodize. Designed for these major engine manufacturer applications: Lycoming 320, 360, & 540 series; Continental 470 series; Superior and others.

- Specifically engineered and built to meet the demands of aviations growing experimental segment.
- Precision Airmotive appointed worldwide network of factory authorized product support centers
- Backed by a Precision warranty program.

Model No.	Application	Part No.	Price
EX320-1	160 HP IO-320	07-00773	\$2,389.00
EX360-1	180 HP IO-360	07-00774	\$2,843.00
EX360-2	200 HP IO-360	07-00775	\$2,389.00
EX540-1	260 HP IO-540	07-00776	\$2,211.00

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249

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EP

BENDIX/PRECISION RSA FUEL SERVOS

OVERHAULED FUEL SERVOS – EXCHANGE

CF Part No.	Model No.	Our Part No.	Price	Core	2529002-1	RSA-5AD1	07-00486	\$1,034.00	\$500.00
2524054-11	RSA-5AD1	07-00391	\$1.034.00	\$500.00	2529050-1	RSA-5AD1	07-00487	\$1,034.00	\$500.00
2524119-7	RSA-5AD1	07-00402	\$1,034.00	\$500.00	2524030-10	RSA-10AD1	07-00488	\$1,125.00	\$500.00
2524145-12	RSA-5AD1	07-00403	\$1,034.00	\$500.00	2529006-1	RSA-5AD1	07-00489	\$1,034.00	\$500.00
2524147-13	RSA-5AD1	07-00404	\$1,034.00	\$500.00	2524152-10	RSA-10AD1	07-00490	\$1,125.00	\$500.00
2524171-11	RSA-5AD1	07-00405	\$1,034.00	\$500.00	2524163-14	RSA-10AD1	07-00491	\$1,125.00	\$500.00
2524189-11	RSA-5AD1	07-00407	\$1,034.00	\$500.00	2524175-10	RSA-10AD1	07-00492	\$1,125.00	\$500.00
2524213-11	RSA-5AD1	07-00408	\$1,034.00	\$500.00	2524255-9	RSA-10AD1	07-00493	\$1,125.00	\$500.00
2524216-12	RSA-5AB1	07-00409	CFQ*	CFQ*	2524256-10	RSA-10AD1	07-00494	\$1,125.00	\$500.00
2524242-10	RSA-5AD1	07-00410	\$1,034.00	\$500.00	2524267-10	RSA-10DB1	07-00495	\$1,125.00	\$500.00
2524243-11	RSA-5AD1	07-00411	\$1,034.00	\$500.00	2524273-12	RSA-10ED1	07-00496	\$1,125.00	\$500.00
2524254-11	RSA-5AB1	07-00412	CFQ*	CFQ*	2524275-15	RSA-10DB1	07-00497	CFQ*	CFQ*
2524262-10	RSA-5AB1	07-00414	CFQ*	CFQ*	2524311-9	RSA-10AD1	07-00499	\$1,125.00	\$500.00
2524291-11	RSA-5AD1	07-00416	\$1,034.00	\$500.00	2524366-10	RSA-10ED1	07-00501	\$1,125.00	\$500.00
2524297-10	RSA-5AD1	07-00457	\$1,034.00	\$500.00	2524420-11	RSA-10ED1	07-00502	\$1,125.00	\$500.00
2524307-10	RSA-5AD1	07-00458	\$1,034.00	\$500.00	2524422-9	RSA-10ED1	07-00503	\$1,125.00	\$500.00
2524328-10	RSA-5AD1	07-00459	\$1,034.00	\$500.00	2524423-12	RSA-10DB1	07-00504	\$1,125.00	\$500.00
2524335-10	RSA-5AD1	07-00460	\$1,034.00	\$500.00	2524477-12	RSA-10ED1	07-00505	\$1,181.00	\$500.00
2524341-10	RSA-5AD1	07-00461	\$1,034.00	\$500.00	2524491-9	RSA-10ED1	07-00506	\$1,125.00	\$500.00
2524348-11	RSA-5AD1	07-00462	\$1,034.00	\$500.00	2524298-12	RSA-10ED1	07-00507	\$1,125.00	\$500.00
2524359-11	RSA-5AD1	07-00463	CFQ*	CFQ*	2524492-9	RSA-10ED1	07-00508	\$1,125.00	\$500.00
2524459-9	RSA-5AD1	07-00465	\$1,034.00	\$500.00	2524500-9	RSA-10ED1	07-00509	\$1,125.00	\$500.00
2524475-8	RSA-5AD1	07-00466	\$1,034.00	\$500.00	2524501-9	RSA-10DB2	07-00510	\$1,125.00	\$500.00
2524550-8	RSA-5AD1	07-00467	\$1,126.00	\$500.00	2524534-9	RSA-10ED1	07-00511	CFQ*	CFQ*
2524575-8	RSA-5AD1	07-00468	\$1,034.00	\$500.00	2524582-8	RSA-10ED1	07-00512	\$1,125.00	\$500.00
2524590-8	RSA-5AD1	07-00469	\$1,034.00	\$500.00	2524593-9	RSA-10DB1	07-00513	\$1,125.00	\$500.00
2524592-8	RSA-5AD1	07-00470	\$1,034.00	\$500.00	2524601-10	RSA-10ED1	07-00514	\$1,125.00	\$500.00
2524623-8	RSA-5AD1	07-00471	\$1,034.00	\$500.00	2524649-11	RSA-10DB1	07-00515	\$1,300.00	\$500.00
2524634-8	RSA-5AD1	07-00472	\$1,034.00	\$500.00	2524693-11	RSA-10ED1	07-00516	\$1,125.00	\$500.00
2524640-8	RSA-5AD1	07-00473	\$1,034.00	\$500.00	2524708-9	RSA-10DB2	07-00517	CFQ*	CFQ*
2524673-8	RSA-5AD1	07-00474	\$1,034.00	\$500.00	2524709-8	RSA-10ED1	07-00518	\$1,125.00	\$500.00
2524688-8	RSA-5AD1	07-00475	\$1,034.00	\$500.00	2524733-8	RSA-10ED1	07-00519	\$1,125.00	\$500.00
2524712-10	RSA-5AB1	07-00476	CFQ*	CFQ*	2524791-7	RSA-10ED2	07-00520	\$1,125.00	\$500.00
2524723-8	RSA-5AD1	07-00477	CFQ*	CFQ*	2524811-5	RSA-10ED1	07-00521	\$1,125.00	\$500.00
2524742-8	RSA-5AD1	07-00478	\$1,034.00	\$500.00	2524846-3	RSA-10ED1	07-00522	\$1,125.00	\$500.00
2524752-7	RSA-5AD1	07-00479	\$1,034.00	\$500.00	2524855-4	RSA-10DB1	07-00523	\$1,300.00	\$500.00
2524840-3	RSA-5AD1	07-00480	\$1,034.00	\$500.00	2524857-3	RSA-10ED1	07-00524	\$1,125.00	\$500.00
2524905-2	RSA-5AD1	07-00481	\$1,034.00	\$500.00	2524880-4	RSA-10ED1	07-00525	\$1,125.00	\$500.00
2524937-1	RSA-5AD1	07-00482	\$1,034.00	\$500.00	2524896-4	RSA-10DB2	07-00526	CFQ*	CFQ*
2524939-2	RSA-5AD1	07-00483	\$1,034.00	\$500.00	2529038-2	RSA-10ED1	07-00527	\$1,125.00	\$500.00
2524948-2	RSA-5AD1	07-00484	CFQ*	CFQ*					
2524979-1	RSA-5AD1	07-00485	CFQ*	CFQ*					
CF Part No.	Model No.	Our Part No.	Price	Core	*CFQ = CALL	FOR QUOTE			

OVERHAULED FLOW DIVIDERS - EXCHANGE

Part No.	Model No.	Our Part No.	Price	Core	Part No.	Model No.	Our Part No.	Price	Core
2524057-2 2524088-2	Flow Divider Flow Divider	07-00528 07-00529	\$156.25 \$156.25	\$150.00 \$150.00	2524224-2 2524225-2	Flow Divider Flow Divider	07-00545 07-00546	\$156.25 \$156.25	\$150.00 \$150.00
2524115-2	Flow Divider	07-00530	\$156.25	\$150.00	2524226-2	Flow Divider	07-00547	CFQ*	CFQ*
2524120-2	Flow Divider	07-00531	\$156.25	\$150.00	2524227-2	Flow Divider	07-00548	\$156.25	\$150.00
2524148-3	Flow Divider	07-00532	\$156.25	\$150.00	2524232-2	Flow Divider	07-00549	\$156.25	\$150.00
2524158-2	Flow Divider	07-00533	\$156.25	\$150.00	2524240-2	Flow Divider	07-00550	\$156.25	\$150.00
2524164-2	Flow Divider	07-00534	\$156.25	\$150.00	2524248-2	Flow Divider	07-00551	\$156.25	\$150.00
2524166-2	Flow Divider	07-00535	CFQ*	CFQ*	2524302-2	Flow Divider	07-00553	\$156.25	\$150.00
2524172-2	Flow Divider	07-00536	\$156.25	\$150.00	2524327-2	Flow Divider	07-00554	\$156.25	\$150.00
2524177-2	Flow Divider	07-00537	\$156.25	\$150.00	2524342-2	Flow Divider	07-00555	CFQ*	CFQ*
2524188-2	Flow Divider	07-00538	CFQ*	CFQ*	2524397-2	Flow Divider	07-00556	\$156.25	\$150.00
2524218-2	Flow Divider	07-00539	CFQ*	CFQ*	2524416-2	Flow Divider	07-00557	\$156.25	\$150.00
2524219-2	Flow Divider	07-00540	\$156.25	\$150.00	2524421-2	Flow Divider	07-00558	\$220.00	\$150.00
2524220-2	Flow Divider	07-00541	\$156.25	\$150.00	2524571-2	Flow Divider	07-00559	\$156.25	\$150.00
2524221-2	Flow Divider	07-00542	\$156.25	\$150.00	2524586-2	Flow Divider	07-00560	\$156.25	\$150.00
2524222-2	Flow Divider	07-00543	\$156.25	\$150.00	2524610-2	Flow Divider	07-00561	\$156.25	\$150.00
2524223-2	Flow Divider	07-00544	\$156.25	\$150.00					

FUEL PUMPS



BUZZ PUMP AC2001

The Buzz Pump AC2001 is lightweight positive displacement, high volume, manual dual stroke auxiliary fuel pump for experimental aircraft. The Buzz Pump has capacity to operate aircraft engines as large as 300 HP models at full power. Eliminates the connection to a complicated electrical system and expensive high-

pressure electrical fuel pump. The Buzz Pump is constructed with high quality engineered materials and components. It will bolt directly into standard Christen and D2 pump bolt patterns.

Specifications: • Weight: 2.4 lbs. •Aluminum billet housing construction • Double O-ring shaft seals • Triple precision bearing shaft support • Metal valves for long life • Pressure setting relief valve: 5-25psi • 90° stroke angle for comfortable operation • Housing dia.: 3.4" x 4.5" total length • Pump handle length: 4.5" • One input port and one output port @ 180° • 1/4-18 NPT tapped holes for fittings • Standard finish is clear anodize (light gray color) • Buzz Filter Sump AC2002, can bolt directly to the pump with an AN911-6D threaded nipple (not included)

P/N 07-00654......**\$966.00**



BUZZ FILTER SUMP

The Buzz Filter Sump, AC2002 is a fuel filter/moisture sump for high-pressure applications, 50psi ideally suited for precision fuel injection systems. The Buzz filter/sump can mount directly to the Buzz Pump AC2001 or to the fuselage or firewall. Easy to replace fuel filter. The Buzz Filter/Sump is engineered and constructed with high quality engineered materials and components and will mount directly to the Buzz Pump AC2001, with an AN911-6D threaded nipple.

Specifications: • High-pressure application to 50psi • Weight: 13 oz. •Aluminum billet housing construction • Large O-ring sump seal • 1/4-18 NPT tapped holes for fittings • CG-12 Fram filter with easy to replace insertion chamfer • Standard finish is clear anodize (light gray color) • Curtis drain fitting •*AN fittings not included.

P/N 07-00655......**\$246.95**



MIKUNI FUEL PUMP

Genuine Mikuni fuel pumps. Replace original parts on Rotax®, Hirth, & many other engines. Single PumpP/N 07-00777......\$20.00 Dual PumpP/N 07-00778.....\$23.90 Single PumpP/N 07-01011\$6.95 Dual PumpP/N 07-01010.....\$13.10



BING FUEL PUMP

Bing High-capacity pump. Use when tank is more than 5' away or significantly lower than engine. P/N 07-00779....\$124.95 Diaphragm Repair kit P/N 07-01007......\$32.50 Bing Low Vol. fuel pump ..P/N 07-01008.....\$83.95

Repair Kit for Low Vol pump..P/N 07-01009......\$27.95

ROMEC/CRANE FUEL PUMPS

The next time you overhaul your fuel components, don't spend time on the phone chasing parts, just order a Kelly Aerospace "Quick Kit" and take the hassle out of your overhaul. Kelly has made this task easy by developing the first "Quick Kits" that include the mandatory replacement parts, plus the parts used by fuel professionals to insure the job is done right!

Fuel Pump#	Model No.	Part No.	QuickKit#	Price
RG-9080	2,F1,F2,G1,G2,J1,J2,	07-09080-0	CFK-9080-0	\$120.95
	J3,J4,J5,J7A,J4A			
RG-9080	H1, H2, J6, J8	07-09080-1	CFK-9080-1	\$68.00
RG-9570	All Models	07-09570	CFK-9570	\$96.00
RG-15980	A,B,B1,C,D,E,F,G,N, N1,P,P1,R,R1,S,S1	07-15980	CFK-15980	\$248.95
RG-17980	A,B,C1,D,E,G,J,J1,K,P,U	07-17980	CFK-17980	\$248.95

FUEL SERVO QUICK KITS

The next time you overhaul your fuel components, don't spend time on the phone chasing parts, just order a Kelly Aerospace "Quick Kit" and take the hassle out of your overhaul. Kelly has made this task easy by developing the first "Quick Kits" that include the mandatory replacement parts, plus the parts used by fuel professionals to insure the job is done right!

Fuel Servo#	Model No.	Our Part No.	QuickKit#	Price
RSA-5AB1	All Models	07-00562	CFK-5AB1	\$539.00
RSA-5AD1	All Models	07-00563	CFK-5AD1	\$539.00
RSA-10AD1	All Models	07-00564	CFK-10AD1	\$455.95
RSA-10DB2	All Models	07-00565	CFK-10DB2	\$498.95
RSA-10ED1	All Models	07-00566	CFK-10ED1	\$498.95
RSA-10ED2	All Models	07-00567	CFK-10ED2	\$498.95



OVERHAULED FUEL PUMPS (EXCHANGE)

Part No.	Model No.	Our Part No.	Price	Core
RG9080F1	RG9080	07-00275	\$594.00	\$400.00
RG9080F2	RG9080	07-00331	\$594.00	\$400.00
RG9080G1	RG9080	07-00332	\$595.00	\$400.00
RG9080G2	RG9080	07-00333	\$594.00	\$400.00
RG9080H1	RG9080	07-00334	\$594.00	\$400.00
RG9080H2	RG9080	07-00335	\$594.00	\$400.00
RG9080J1	RG9080	07-00336	\$594.00	\$400.00
RG9080J2	RG9080	07-00337	\$594.00	\$400.00
RG9080J3	RG9080	07-00338	\$594.00	\$400.00
RG9080J4	RG9080	07-00339	\$594.00	\$400.00
RG9080J4A	RG9080	07-00340	\$594.00	\$400.00
RG9080J5	RG9080	07-00341	\$594.00	\$400.00
RG9080J6A	RG9080	07-00342	\$594.00	\$400.00
RG9080J7A RG9080J8A	RG9080 RG9080	07-00274 07-00343	\$594.00 \$998.00	\$400.00 \$400.00
RG15980	RG15980	07-00343	\$613.00	\$500.00
RG15980A	RG15980	07-00344	\$613.00	\$500.00
RG15980B	RG15980	07-00345	\$613.00	\$500.00
RG15980C	RG15980	07-00347	\$613.00	\$500.00
RG15980D	RG15980	07-00348	\$613.00	\$500.00
RG15980E	RG15980	07-00349	\$613.00	\$500.00
RG15980G	RG15980	07-00350	\$ CFQ*	\$ CFQ*
RG15980N	RG15980	07-00351	\$ CFQ*	\$ CFQ*
RG15980N1	RG15980	07-00352	\$ CFQ*	\$ CFQ*
RG15980P	RG15980	07-00353	\$ CFQ*	\$ CFQ*
RG15980P1	RG15980	07-00354	\$ CFQ*	\$ CFQ*
RG15980R	RG15980	07-00355	\$ CFQ*	\$500.00
RG15980R1	RG15980	07-00356	\$ CFQ*	\$500.00
RG15980S	RG15980	07-00357	\$ CFQ*	\$500.00
RG15980S1	RG15980	07-00358	\$ CFQ*	\$500.00
RG17980	RG17980	07-00360	\$580.00	\$400.00
RG17980A	RG17980	07-00361	\$1,336.00	\$400.00
RG17980B	RG17980	07-00362	\$580.00	\$400.00
RG17980D RG17980E	RG17980 RG17980	07-00276 07-00365	\$582.00 \$562.00	\$400.00 \$400.00
RG17980F	RG17980	07-00365	\$579.00	\$400.00
RG17980J	RG17980	07-00300	\$583.00	\$400.00
RG17980J1	RG17980	07-00277	\$562.00	\$400.00
RG17980K	RG17980	07-00370	\$562.00	\$400.00
RG17980P	RG17980	07-00372	\$579.00	\$400.00
RG17980R	RG17980	07-00374	\$996.00	\$400.00
RG17980S	RG17980	07-00375	\$579.00	\$400.00
RG17980U	RG17980	07-00376	\$579.00	\$400.00
RG9570K1	RG9570	07-00377	\$639.00	\$750.00
RG9570K2	RG9570	07-00378	\$640.00	\$750.00
RG9570K3	RG9570	07-00379	\$639.00	\$750.00
RG9570J	RG9570	07-00380	\$639.00	\$750.00
RG9570J1	RG9570	07-00381	\$639.00	\$750.00
RG9570P	RG9570	07-00382	\$640.00	\$750.00
RG9570P1	RG9570	07-00383	\$639.00	\$750.00

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253

FUEL PUMPS



NEW LYCOMING & CONTINENTAL FUEL PUMPS

Proven to be a trouble-free mechanical pressure pump. Original equipment on numerous airframe installations and adaptable to most applications with one of 3 dual diaphragm types. Overboard vent of this design provides operating as-

surance throughout all flights. These quality fuel pumps are Lycoming or AC fuel pumps overhauled and certified to original specifications. Fully FAA approved and warrantied. Order by overhauled pump part number.

Engine	Engine Model No.	Our	Lycoming	Our
Type		P/N	Part No.	Price
Lycoming	O-235, O-290, O-320, O-340, O-360, HO-360, GO-480, O-540, VO-540	07-00704 4-6 PSI	LW15472	\$266.95
	IO-320, IO-360, AIO-360 HIO-360, IVO-360, IO-540, IGO-540, IO-720	07-00705 25-30 PSI	LW15473	\$254.95
Continental	C-75 (-12, -12F),C-90 (-8,-8F,-12,12F)	05-19045	AF40695	\$277.95
	C-90 (-16F), 0-200	05-19050	AF631391	\$388.95

\$25 Core charge applies to these new pumps.

Adapt pump thread to AN fittings using AC Fuel pump adapters: P/N 75505 Fitting **\$29.80** or P/N 75505-1 Fitting & O-Ring **\$30.16**

TEMPEST LYCOMING & TCM FUEL PUMPS

MMO	Description	P/N	Price
Overhauled I	ycoming & TCM Diaphragm F	uel Pumps	
40174 40295 40296 40296 40595 41234 41270 41271 41272 41452 41617 41812 75246 75247 103396-01 103586-01 LW14282 LW153799 LW15472 LW16335 LW16775 LW16937 RJ4033 R00253-1 R00253-501 R00253-501	Fuel Pump - Overhauled	05-02530 05-19005 05-02531 05-19015 05-02532 05-02533 05-02533 05-02536 05-02536 05-02538 05-02538 05-02543 05-02544 05-02544 05-02544 05-02545 05-02545 05-02545 05-02545 05-02545 05-02545 05-02545 05-02545 05-02545 05-02545 05-02545 05-02545 05-02545 05-02545 05-02545 05-02545 05-02545 05-02545 05-025545 05-02555	\$319.00 \$319.00
New	Lycoming Diaphragm Fuel Pun	nps	
AF15472 AF15473	Fuel Pump - New Fuel Pump - New	05-02555 05-02556	\$319.00 \$319.00
Overh	auled TCM Centurion Fuel Pur	nps	
4036/9076 6861 9051/9867 40585 40695 631391 AF40585 AF40695 AF631391	Fuel Pump - Overhauled	05-19030 05-19035 05-19025 05-02557 05-02558 05-02559 05-02562 05-19045 05-02563	\$319.00 \$319.00 \$319.00 \$319.00 \$319.00 \$319.00 \$319.00 \$319.00
Ne	ew TCM Centurion Fuel Pumps		
AF6561 AF16335 AF40585 AF40695 AF631391	Screen Kit Fuel Pump - New Fuel Pump - New Fuel Pump - New Fuel Pump - New	05-02560 05-02561 05-02564 05-02565 05-19050	\$319.00 \$319.00 \$319.00 \$319.00 \$319.00

LYCOMING/AC FUEL PUMP FITTINGS



These fittings are designed to fit mechanical fuel pumps used on Lycoming engines. These fittings feature 3/8" AN flare outlets for connection to aircraft hoses, and are available in straight, 45° & 90° angle versions.

4	Straight fitting	P/N 07-00780	\$2.75
	45° fitting	P/N 07-00781	\$9.85
	90° fitting	P/N 07-00782	\$15.40
Tee fitting w/ 1/8" pipe	thread tapping for fue	l pressure.	
0	11 0	P/N 07-00783	\$9.50

WELDON HIGH PRESSURE ELECTRIC FUEL PUMP



Weldon's 8150 series high pressure electric fuel pump is a positive displacement "cammed vane" type used primarily in airborne applications. It features a low pressure relief valve and integral bypass valve. Applications include in-line fuel transfer priming of fuel-injected engines and an emergency fuel pump. The permanent-magnet, explosion resistant motor is rated for continuous duty. These self-priming, lightweight (2.6 lbs. max.) pumps have been used for over 15 years by major aircraft manufacturers.

Model No.	Flow GPH	Output	Fluid	Power	Price Ea
8150-B	35 Min.	4.5 PSI	Av Gas	24V DC @ 2A	\$828.50
8163-A	35 Min.	21 PSI	Av Gas	14V DC @ 5A	\$632.00
			MIL-G-5572	_	
8170-A	35 Min.	4.5 PSI	Gasoline	12V DC @ 4A	\$1,303.00

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254

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FACET ELECTRIC FUEL PUMPS



SOLID-STATE TYPE PUMPS - These pumps measure less than 3" in any direction and weigh only 18 oz. Fuel is supplied as soon as the ignition is turned on so the engine will start faster at colder tempera-tures. Built-in pressure relief prevents flooding and assures fast re-starts on hottest days. The all-steel plated case is water tight. Mounts with two bolts. For best results, mount the pump close to the fuel tank and below the liquid level. The tank is self-priming to 18" fuel lift. Standard 12 V models require only 1 amp

at max. delivery. Many models are available, but these are the ones recommended by Rutan Aircraft Factory, Stoddard Hamilton and many other aircraft designers. All of the pumps shown feature the all nylon valve and plunger as specified by Rutan Aircraft in the Canard Pusher newsletter.

FACET NO. 40105 - 12V Negative Ground, 2-1/2-4-1/2 PSI Max.,	
30 GPH. 1/8 x 27 internal pipe portsP/N 40105\$28.60	

FACET NO. 40106 - 12V Negative Ground, 4-6 PSI Max., 30 GPH. 1/8 x 27 internal pipe ports......P/N 40106...

FACET NO. 40164 - 24V Negative Ground, 4-C PSI Max, 30 GPH, 1/8 x 27 internal pipe portsP/N 40164.................\$49.30

Facet filter for solid-state pumpsP/N 479735 ea. \$3.00

The pumps above do not feature an anti-siphoning valve and fuel will flow through them in event of pump failure.

MOUNTING BRACKET FOR WELDON FUEL PUMPS



This T-bolt quick release band clamp with mounting bracket fits all Weldon fuel pumps with 2-1/2" diameter motors. Made from certified aerospace quality stainless steel, this bracket offers secure holding power under extreme vibration. The band clamp rotates within the mounting foot to offer easy access to the quick release latch for a variety of mounting positions.

P/N 05-00021\$23.65 ea.

AEROQUIP FITTING FOR FACET PUMPS



On the recommendation of Rutan Aircraft Factory, we now stock Aeroquip #2071-6-6S fitting which is a steel elbow with a swivel nut which fits the 37 flares on the Facet 40108 and 40154 fuel pumps. This Aeroquip fitting makes installation of the pumps easy & economical. Aeroquip #2071-6-6S.

P/N 04-05800\$4.95

P/N 480545**\$65.50**

INTERRUPTER TYPE PUMPS

These pumps are used on many production aircraft as booster pumps, but do not carry blanket FAA approval. Standard 12 V models require only 3/4 amps at max. delivery. A few applications are:

FACET NO. 480545 - 12V Negative Ground, 4-5 PSI, 30gph. Includes anti-siphoning valve. Used on Maule aircraft.



Interrupter Type

FACET NO. 480564E - 24V Negative Ground, 4-5 PSI, 32gph. Includes anti-siphoning valve. 1/4-18 fitting. P/N 05-01003\$89.50

FACET NO. 478360 - 12V Negative Ground, 4-5 PSI, 30 GPH. Without anti-siphoning valve. Used on some Piper aircraft. P/N 478360\$61.25

FACET NO. 476088 - 24V Negative Ground, 4-5 PSI, 30 GPH. Used on some Piper and Grumman models.

P/N 476088

FACET NO . 480543 - 12V Negative Ground, 6-1/2-7-1/2 PSI, 45 GPH. Used by some engine rebuilders and aircraft modification shops. P/N 480543\$78.00 cation shops. P/N 480543\$78.00 Facet filter for interrupter pumps P/N 479729\$2.45

FACET NO. 476410 - 12V Negative Ground, 4-5 PSI, 20 GPH. \$101.95

Facet No. 476410 DISCOUNTS: LESS 10% ON 6 UNITS, 15% ON 12 UNITS

UNLISTED PUROLATOR/FACET FUEL PUMPS CALL US!

As a master distributor for the Purolator/Facet factory, Aircraft Spruce carries the full line of fuel pumps and parts. If the Purolator/ Facet pump or part you require is not listed above, please contact us at 1-877-4-SPRUCE (1-877-477-7823) or by email or fax for pricing and availability on the parts you require.

All above magnetos have impulse coupling.



REMANUFACTURED BENDIX MAGNETOS

S4LN-20(RH) 10-51360-29R ..\$355.95 S4LN-21(LH) ..10-51360-37R ..\$516.00 200 Series10-163050-9R ..\$369.95 10-51365-47R ..\$511.00 10-51360-28R ..\$341.95 D3000 ...10-682555-11R ...\$595.90 120010-682555-14R ...\$595.90 10-349310-1R\$341.95 10-51360-27R ...\$355.95 10-79020-10R ...\$399.95 S4LN-21 ..10-51360-26R ...\$399.95 S4LN-21 ..10-51360-37R ...\$516.00 120010-349370-4R ...\$513.00 D300010-682560-11R ..\$717.00

Exchange Price. Add \$180.00 core charge to price above. Refundable with return of rebuildable exchange magneto.

ALL MODEL NUMBERS AVAILABLE

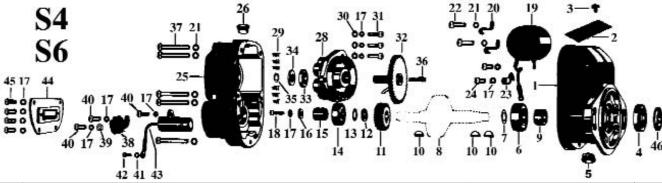
BENDIX MAGNETO ENGINE APPLICATIONS

Francis Monneto Unit								
	Engine	Magneto		Units per				
Make	Model	Type	Magneto Replacement	Engine				
Continental	A-65-8, A-75-8, C-75-8, C-85-8 with original crankcase	S4RN-20 S4RN-21	10-51360-27 (Rt. Side) 10-51360-28 (Lt. Side)	1 1				
	A65-8, A-75-8, C-75-8, C-85-8 with current crankcase castings No. 6794 & No. 6795	S4RN-21	10-51360-28	2				
	C-75-12F, C-85-8F, C-85-12F, C-90-12,	S4LN-21	10-51360-26	2				
	C-115, C-125-2, C-145-2, C-145-4	S6LN-21	10-51365-39	2				
	E-165-2, E-185-2 (above S/N 10111) E-185-3, E-185-9 (above S/N 5937) (above S/N 20922), E-225-4, E-225-8 (all), O-470-7 (above S/N 5937)	S6LN-20	10-51365-43	2				
	GO-300A, GO-300B	S6RN-21	10-51365-35	2				
	O-470-2, -4, -13, -A, -B, -E, -G, -J, -K, -L, -M, BGSO-526-A	S6RN-25	10-79020-8	2				
	O-470-13A	S6LN-23	10-52350-20	2				
	PE-150-2, -6 Packette	S6LN-23	10-52350-20	1				
	FSO-526-A	S6RN-26	10-85290-2	2				
Franklin	6A4-150-B3, 6A4-165-B3	S6RN-21		2				
	6V4-178-B3, -B33, O-335-2, -3	S6RN-21	10-51365-48	2				

	Engine	Magneto		Units per
Make	Model	Type	Magneto Replacement	Engine
Franklin	6V4-200-C32, -C33, O-335-2, -3, -5, -6	S6RN-23	10-52350-19	2
	6A4-200-C6	S6RN-23	10-52350-21	2
Lycoming	ttO-145-B2, -B3, -C2, -C3, ttO-235-C, O-235-C1, -C1A, O-320-A1A, -A2A, -B1A, -B2A, O-340-A, -A1A, -A2A, -B1A, B2A, O-360- A, -A1A, -A1B, -B1A, -B2A	S4LN-20 S4LN-21 S4LN-21 S4LN-21	10-51360-29 10-51360-30 10-51360-30 (25° Lag) or 10-51360-25 (35° Lag)	1 1 2 2
	O-290-G (single ignition)	S4LN-21	10-51360-25	1
	GO-435-C2, -C2A, -C2B, -C2B2, -C2C, -C2E, GO-480, -B, -B1A6, -B1C, -B1D, -C1A, -C1D6, -C2E6, -F1A6, -F2A6, -F3A6, -F4A6	S6LN-20 S6LN-21	10-51365-31 10-51360-32	1
	O-435-19, -20, VO-435A, -A1A, -A1B, -A1C, -A1D, GO-480-C1B6, -D1A, -G1B6, GSO-480-A1A6, -A1C6, -B 1A6, -B1B6, -B1C6	S6LN-20 S6LN-21	10-51365-33 10-51365-34	1
	O-435-6, -6A, -23, -23A, -23B, -A1C (optional), O-480-1	S6LN-22 S6LN-23	10-52350-22 10-52350-23	1 1
	O-435-17, GO-435-C2, -C2A, -C2B, -C2D, GO-480-B1, -B1B, -C2C6, -F3B6, -F4B6	S6LN-20 S6LN-21	10-51365-44 10-51365-45	1
	O-540	S6LN-20 S6LN-21	10-51365-46 10-51365-47	1 1

*See Listing Below.

PARTS COMMON TO S4N & S6N MAGNETOS **New P/N 10-357584. ***New P/N 10-357586.



		72 71 70									
Ref. No.	Part No.	Description	Price Ea.	Ref. No.	Part No.	Description	Price Ea.	Ref. No.	Part No.	Description	Price Ea.
1	10-50727Y	Housing - Magneto	\$312.95	13	2-199-3	Shim Washer005"	\$1.22	30		Washer - Plain	\$0.96
2	10-400012	Plate - Mag Ident	\$13.90	'	2-199-4	Shim Washer008"	\$1.44	31		Screw - Distributor Block	ψ0.00
3	10-22067	Drive Screw - Ident Plate	Ψ10.00		2-199-5	Shim Washer010"	\$0.94	32	10-357584	Gear-Distrib., Large (S4)**	\$42.30
1 4	10-357592	Oil Seal - Drive Shaft	\$12.00		2-199-6	Shim Washer012"	\$1.10	32A	10-357586		\$103.95
5	10-157134	Vent - Mag Housing	\$2.50		2 100 0	(Breaker End Bearing)	ψ1.10	33	10-50752	Washer - Felt	\$0.59
6	10-81806	Bearing - Mag, Drive End	\$16.20	14	2-202	Bearing-Magnet, Brkr End	\$21.60	35	10-92815-37	Ring-Retain. (Distrib., Gear)	\$0.52
7	2-161-1	Shim Washer0025"	\$1.99	15	10-88543-1	Cam - Breaker	\$19.90	36	10-9595	Brush - Carbon	\$6.60
1 '	2-161-2	Shim Washer004"	\$4.45	16	10-51354	Washer-Plain (Cam Screw)		37	10-157158	Screw	\$2.10
	2-161-3	Shim Washer005"	\$1.85	18		Screw - Cam	\$1.62	38		Breaker Assembly*	— —
	2-161-4	Shim Washer008"	\$1.78	19	10-357164	Coil	\$99.00	39	10-14268	Washer - Plain	\$1.17
	2-161-5	Shim Washer010"	\$2.15	20	10-50765	Clamp - Coil Core	\$3.55	40	10-35936-6	Screw	\$1.66
	2-161-6	Shim Washer012"	\$1.91	21	10-30703	Washer - Lock	ψ0.00	41	10-00000-0	Washer - Lock	Ψ1.00
	2-101-0	(Drive End Bearing)	Ψ1.51	22	10-35937-8	Screw - Coil Core Clamp	\$1.27	42		Screw - Lead to Breaker	2.20
8		Magnet - Rotating		23	10-53557-5	Clip - Primary Lead	\$2.80	43	10-51676	Condenser	\$10.90
١۵	10-25788	Bushing - Drive Shaft	\$18.20	24	10-16479	Screw	Ψ2.00 ———	44	10-31070	Cover - Breaker	ψ10.30 ———
10	10-90788-5	Key - Woodruff	\$1.24	25		Housing - Distributor		45	10-157161	Screw - Breaker Cover	\$1.76
111	10-157123Y	Gear-Distrib., Small (S4)	\$35.80	26	10-157135	Plug - Distributor Housing	\$2.55	46	10-137101	Oil Slinger - Drive Shaft	\$6.90
11A	10-157120Y	Gear-Distrib., Small (S6)	\$23.10	27		Bushing - Ground Terminal	φ2.55 — —	40	10-51076	Oil Silliger - Drive Shart	φ0.90
12	10-3503	Spacer-Brkr End Bearing	\$1.02	28	10-52949	Block - Distributor (S4)	\$71.00				
13	2-199-1	Shim Washer002"	\$1.02		10-52949	Block - Distributor (S6)	\$68.50				
13	2-199-1			20A 29	10-52956		\$0.52				
1	2-199-2	Shim Washer004"	\$1.46	29	10-50/3/	Spring-H.T. Cable Contact	φU.52				

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AIRCRAFT SPRUCE EAST PEACHTREE CITY, GA • (877) 477-7823 **EP**

BENDIX-SCINTILLA MAGNETOS

BENDIX BREAKER ASSEMBLIES

 P/N 10-382584 (LH)
 \$19.90 Ea.

 P/N 10-382585 (RH)
 \$31.50 Ea.

 Special Offer
 \$64.00 for 2

Used on many late Lyc. engines. Note: Specify Bendix mag P/N e.g., 10-51369-29

REPLACEMENT COIL FOR **BENDIX S4, S6 MAGS**

Airborne FAA-PMA approved coil replaces both Bendix 10-357164 & 10-357165. Retrofits virtually the complete range of Bendix S20 & S200 series mags. Furnished with long & short "coil to P/N ES-652**\$78.85** points" leads.

NOTE: Part Nos. 10-357164-1, 10-357165-1, 07-06303, 07-06304 are all equivalents for ES-652

REPLACEMENT COIL FOR **BENDIX 1200 SERIES MAGS**

Aero Accessories, Inc. FAA-PMA approved coil is a direct replacement for Bendix 10-391088 coil as used on Bendix 1200 series mags at tremendous savings. P/N 07-05600....\$105.95

MAGNETO P-LEAD TEST ADAPTER



The P-Lead Adapter allows connection of magneto timer leads to Bendix aircraft magnetos with immediate and positive connection. Eliminates fooling with old P-leads that are stripped back & dangling. The unique design insures proper spring pressure against the internal contact, provides secure and stable alignment and has a post that prevents the

timer leads from falling off. Sold in pairs. For Bendix S4 & S6 mags

P/N 07-05650 ..\$29.95

REPLACEMENT COILS FOR CONTINENTAL ENGINES PER SERVICE BULLETIN NO. 637

TCM Ignition Systems has issued Service Bulletin No. 637 to retire from service certain older coils and rotating magnets. The Bulletin applies to many S-20, S-200, S-600, and S-1200 series magnetos as identified in this chart. Compliance with this Bulletin is required at the next 100 inspection, annual inspection, or progressive maintenance inspection, whichever comes first. Order by new coil part number.

Magneto Series	Old Coil P/N	Color	New Coil P/N	Color	Our Price
S-20	10-51303 10-76384 10-160886	Opaque amber to Dark Purple	10-357164	Bright Red to Dark Red	\$99.00
S-20 S-200	10-163172 10-163209 10-160887	Opaque Amber to Dark Purple	10-357165-1	Bright Red to Dark Red	\$91.75
S-1200	10-349271	Opaque Amber	10-391088-1	Blue to Olive Green to Black	\$114.95

HIGH TENSION CABLE OUTLET ASSEMBLIES

			ed Kit No. 10 r All S4N Ma			ed Kit No. 10 Mags, excep	-52936 t 1200 series)
Ref. #	Description	Part No.	No. Req.	Price	Part No.	No. Req.	Price
2	Screw & Washer	10-157159	4	\$0.66	10-157159	4	\$0.66
3	Plate - Cable Outlet	10-50766	1		10-50777	1	\$17.10
4	Cable Outlet Grommet	10-50739	1		10-50771	1	
5	Washer	10-8785	4		10-8785	6	

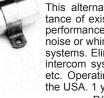




CONTINENTAL **MAGNETO DRIVE GEARS**

#36066 GearOur Price \$491.95 #36067 GearOur Price \$148.00

ALTERNATOR FILTER



This alternator filter exceeds the capacitance of existing filters. provides superior performance in minimizing or eliminating noise or whine caused by aircraft alternator systems. Eliminate alternator noise in your intercom system, audio panels, nav/coms etc. Operating voltage: 50 VDC. Made in the USA. 1 year warranty. FAA approved. P/N 11-08060.. .\$37.75

MAGNETO FILTER



Eliminates ignition noise. Install in primary lead of magneto. Hooks up parallel to primary lead. **Not FAA approved.**

P/N 07-03200\$41.90 ea

MAGNETO FILTER

FAA APPROVED
These FAA approved ignition filters easily connect to the primary lead and grounds at the magneto and eliminate magneto noise. Size: 1"x1.8". 1yr warranty.

Specifications: • Heavy duty mounting clamp •Advanced feed-through design • Temp. range: -35°C to +80°C

Maximum current: 20 amps
 Capacitance: .05 uf-self healing technology
 Braided cable is shielded, silver plate over copper supplied in 8" lengths. • 1000 Vdc working voltage, 5000Vdc break down voltage.

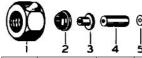
P/N 07-00713\$44.95 Magneto filters not for use on slick mags.

GROUND TERMINAL KITS



For 200 series mags. Kit No. 10-52306 (AN3105)\$26.95

Reg. No.	Part No.	No. Req.	Description
1	10-30299	1	NUT - Coupling (Ground Terminal)
2	10-56507	1	CROMMET Assy.(Ground Terminal)
3	10-3383	1	FERRULE - Inner` (Ground Wire) ´
4	10-25725	1	SLEEVE - Insulating (Ground Wire)



For 20 series mags. Kit No. 10-52305\$49.40

Reg. No.	Part No.	No. Req.	Description
1	10-37669	1	NUT - Coupling (Ground Terminal)
2	10-7030	1	FERRULE - Outer (Ground Wire)
3	10-7029	1	FERRULE - Inner (Ground Wire)
4	10-37668	1	SLEEVE - Insulating (Ground Wire)
5	2-155	1	WASHER - Ground Wire Contact

TCM/BENDIX

IMPU	LSE COUPLINGS
Part No.	
10-40307	\$214.95
10-40309	\$239.95
10-40310	\$198.95
10-40314	\$226.95
10-40315	\$243.95
10-40322	\$198.95
10-40325	\$187.95

\$50 core charge applies

TCM/BENDIX CAM ASSEMBLIES

Part No.	
10-40166-4	\$154.95
10-40167-4	\$154.95
10-40167-6	\$154.95
10-40167-10	\$154.95
\$25 core charge	applies

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256

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BENDIX MAGNETO REPAIR KITS FROM TEMPEST

REPAIR KIT

- 1 Contact Assy. Kit (3)
- 1 Capacitor
- 2 Bearings
- 1 Oil Seal
- 1 Oil Slinger 3 Woodruff Keys
- 1 Cotter Pin
- 1 Cam Screw
- 1 Felt Washer 1 Felt Strip
- 1 Snap Ring 1 - Carbon Brush

hese magneto repair kits are designed to simplify the Bendix magneto overhaul process by providing all of the commonly needed overhaul parts in one convenient kit. The Repair Kits contain the parts needed for minor repair such as a 500 hour inspection, and the Deluxe Repair Kits contain the parts needed for major repair such as a magneto overhaul. These parts are highest quality direct replacement parts and are approved for installation and use on certificated aircraft. The Repair Kit and Deluxe Repair Kit for the Bendix -200, -201, and -202 series magnetos contain two sets of contact assembly kits. Some parts that may be need replacing during magneto overhaul are not included in these kits.

DELUXE REPAIR KIT

- 1 Contact Assy. Kit (3) 1 Coil Kit
- 1 dist. Block Kit
- 1 Gear Kit
- 1 Capacitor 2 - Bearings
- 1 Oil Seal 1 - Oil Slinger
- 3 Woodruff Keys
- 1 Cotter Pin
- 1 Cam Screw

BENDIX SERIES	MAGNETO P/N	MAGNETO TYPE	REPAIR KIT P/N	KIT PRICE	DELUXE REPAIR KIT P/N	KIT PRICE
	10-51360-1 10-51360-3 10-51360-4 10-51360-6 10-51360-8	S4R(L)N -20,21	07-00855	\$76.50	07-00854	\$237.95
	10-51360-10 10-51360-11 10-51360-12 10-51360-25	S4R(L)N -20,21	07-00825	\$76.50	07-00856	\$236.95
	10-51360-26 10-51360-27 10-51360-28	S4R(L)N -20,21	07-00855	\$76.50	07-00854	\$237.95
	10-51360-29 10-51360-30	S4R(L)N -20,21	07-00825	\$76.50	07-00856	\$236.95
	10-51360-31	S4R(L)N -20,21	07-00855	\$76.50	07-00854	\$237.95
	10-51360-33 10-51360-37 10-51360-40 10-51360-41	S4R(L)N -20,21	07-00825	\$76.50	07-00856	\$236.95
	10-51360-45	S4LN-21	07-00860	\$99.75	07-00859	\$259.95
	10-51360-46	S4R(L)N -20,21	07-00825	\$76.50	07-00856	\$236.95
	10-51360-47	S4LN-21	07-00860	\$99.75	07-00859	\$259.95
	10-51360-48 10-51360-54	S4LN-21 S4R(L)N -20,21	07-00858 07-00825	\$104.95 \$76.50	07-00857 07-00856	\$260.95 \$236.95
	10-51360-55 10-51360-58	S4LN-21	07-00860	\$99.75	07-00859	\$259.95
	10-51360-1 up to S.N.238468	S6R(L)N	07-00862	\$73.25	07-00861	\$262.95
	10-51365-1 up to S.N.238469	S6R(L)N	07-00864	\$76.25	07-00863	\$266.95
S-20 & S21	10-51365-2 10-51365-5 10-51365-7	S4R(L)N -20,21	07-00862	\$73.25	07-00861	\$262.95
	10-51365-9	S6R(L)N -20,21	07-00864	\$76.25	07-00863	\$266.95
	10-51365-13	S6R(L)N -20,21	07-00862	\$73.25	07-00861	\$262.95
	10-51365-14 10-51365-15 10-51365-16 10-51365-20 10-51365-25 10-51365-26 10-51365-27 10-51365-27 10-51365-29 10-51365-30 10-51365-31 10-51365-32 10-51365-33 10-51365-34 10-51365-35 10-51365-35	S6R(L)N -20,21	07-00864	\$76.25	07-00863	\$266.95
	10-51365-40 10-51365-41	S6R(L)N -20,21	07-00862	\$73.25	07-00861	\$262.95
	10-51365-42 10-51365-43 10-51365-44 10-51365-45 10-51365-46 10-51365-47	S6R(L)N -20,21	07-00864	\$76.25	07-00863	\$266.95
	10-51365-48	S6R(L)N -20,21	07-00862	\$73.25	07-00861	\$262.95
	10-51365-53 10-51365-54	S6R(L)N -20,21	07-00864	\$76.25	07-00863	\$266.95
	10-51365-57	S6LN -20,21	07-00868	\$117.95	07-00867	\$302.95

MAGNETO P/N

MAGNETO TYPE

BENDIX SERIES

EP

BENDIX MAGNETO REPAIR KITS FROM TEMPEST

REPAIR KIT P/N

KIT PRICE

DELUXE REPAIR KIT P/N

KIT PRICE

	10-79020-5 10-79020-6 10-79020-8 10-79020-10	S6R(L)N -24,25	07-00864	\$76.25	07-00863	\$266.95
	10-79020-11	S6LN -25	07-00868	\$117.95	07-00867	\$302.95
S-24 & S25	10-79020-13 10-79020-14 10-79020-16	S6R(L)N -24, -25	07-00864	\$76.25	07-00863	\$266.95
	10-79020-17 10-79020-18 10-79020-118	S6LN -25	07-00868	\$117.95	07-00867	\$302.95
	10-79020-19 10-79020-119	S6LN -25	07-00866	\$103.95	07-00865	\$298.95
	10-163005-1 10-163005-2 10-163005-3 10-163005-4 10-163005-5 10-163005-7 10-163005-10 10-163005-11	S4R(L)N-200*	07-00844	\$116.95	07-00843	\$267.95
	10-163015-1 10-163015-2 10-163015-3 10-163015-4	S4R(L)N-201*	07-00844	\$116.95	07-00843	\$267.95
	10-163045-1	S4LN -204	07-00757	\$102.95	07-00847	\$254.95
	10-163045-2	S4RN -204	07-00846	\$116.95	07-00845	\$256.95
	10-163045-3	S4LN -204	07-00757	\$102.95	07-00847	\$254.95
	10-163045-4	S4RN -204	07-00846	\$116.95	07-00845	\$256.95
	10-163045-6	S4LN -204	07-00757	\$102.95	07-00847	\$254.95
	10-163045-7	S4RN -204	07-00846	\$116.95	07-00845	\$256.95
	10-163045-4	S4RN -205	07-00846	\$116.95	07-00845	\$256.95
	10-163045-6	S4LN -205	07-00757	\$102.95	07-00847	\$254.95
S-200	10-163010-1 10-163010-2 10-163010-3 10-163010-4 10-163010-5 10-163010-6 10-163010-7 10-163010-8 10-163010-9 10-163010-10 10-163010-11 10-163010-15 10-163010-17	S6R(L)N -200*	07-00849	\$126.95	07-00848	\$314.95
	10-163020-1 10-163020-2 10-163020-3 10-163020-4	S6R(L)N-201*	07-00849	\$126.95	07-00848	\$314.95
	10-163030-1 10-163030-4	S6R(L)N-202*	07-00849	\$126.95	07-00848	\$314.95
	10-163050-1 10-163050-2 10-163050-3 10-163050-5	S6R(L)N-204	07-00853	\$99.75	07-00852	\$292.95
	10-163050-6 10-163050-7 10-163050-8	S6RN -204	07-00851	\$103.95	07-00850	\$292.95
	10-163050-9	S6LN -204	07-00853	\$99.75	07-00852	\$292.95
	10-163060-1	S6RN -205	07-00851	\$103.95	07-00850	\$292.95
	10-163060-2	S6RN -205	07-00853	\$99.75	07-00852	\$292.95
	10-163060-1 10-163060-3	S6RN -206	07-00853	\$99.75	07-00852	\$292.95

REPLACEMENT PARTS FOR BENDIX MAGNETOS FROM KELLY AEROSPACE

P/N	Description	Price	P/N	Description	Price	P/N	Description	Price	P/N	Description	Price
10-353060	Bearing	\$7.60	10-382642	Breaker Points	\$50.00	10-50737	Spring	\$0.52	10-125996	Bushing	\$2.85
10-357078	Bushing	\$17.20	10-382681	Capacitor	\$58.00	10-50752	Felt Washer	\$0.59	10-160844	Brush	\$3.10
10-357164	Coil	\$99.00	10-382788	Washer	\$2.15	10-51391	Plug	\$4.75	10-163048	Bushing	\$29.30
10-357165-1	Coil	\$91.75	10-382790-1	Coil	\$124.95	10-51676	Capacitor	\$10.90	10-163049	Bushing	\$30.90
10-357173	Breaker Points	\$32.20	10-382807	Capacitor	\$69.85	10-53397	Washer	\$0.33	10-163374	Felt Strip	\$0.52
10-357174	Breaker Points	\$31.90	10-382811	Gasket	\$15.00	10-55501	Washer	\$1.01	10-349263	Packing	\$0.63
10-357193	Bushing		10-382815	Bushing	\$16.70	10-68205	Distributor Block	\$126.95	10-349276	Capacitor	\$42.50
10-357281	Capacitor	\$43.60	10-391088-1	Coil	\$114.95	10-68205-6	Distributor Block	\$145.95	10-349511	Washer	\$2.90
10-357424	Distributor Block	\$71.00	10-391389	Gasket	\$15.90	10-81806	Bearing	\$16.20	10-349970	Breaker Points	\$25.90
10-361631	Breaker Points	\$49.40	10-391401	Gasket	\$10.10	10-92815-37	Ring	\$0.52	10-349971	Breaker Points	\$25.20
10-382584	Breaker Points	\$19.90	10-391584	Distributor Block	\$40.80	10-92815-62	Ring	\$0.82	10-353056	Bearing	\$14.20
10-382588-1	Coil	\$103.95	10-391586	Distributor Block	\$43.60	2-202	Bearing	\$21.60			
10-382622	Breaker Points	\$43.60	10-50732	Vent	\$12.60	ES-652	Coil	\$78.85			

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KELLY AEROSPACE IGNITION HARNESSES



Kelly Aerospace ignition harness incorporate a negative-pitch spring design (the tip of the coil spring extends inward) allowing the coil spring tip to lie flat against the spark plug electrode, providing 360 degreee contact. Kelly Aerospace ignition harnesses are FAA/PMA approved for Lycoming, Continental and Franklin engines. Using a tinned-copper, nickel plated braid shielding substantially reduces IMIand combined with a very flexible 19 strand conductor of stainless steel wire provides te ultimate in wire conductivity and ease of installation. Steel nuts offer superior strength compared to alminum nuts and reduce the potential for galling during installation. The abrasion resistant red polymer cover has been engineered specifically for the high-temp environment of reciprocating engines. Kelly's unique clockable steel elbow allows you to "point" the lead end in any direction (360°) without putting a strain or twist in the lead wire. Excellent for those tight installations and closely cowled engines where heat and accessibility are a problem. Eliminates wire damage due to tight bends at the plug. Just add an "E" to the end of the part number when ordering

Part Numbering System and Cross Reference: The Kelly Aerospace part numbering system is "user-friendly" for quickly cross-referencing to both Champion and Unison harnesses. Our "KA1" prefix is equivalent to the Champion "CH1" or the Unison "M" with the balance of the part number remaining the same. Add the suffix "E" to the part number to designate the 90° steel elbow terminations whenever ordering an "elbow" harness (Example: KA12121E). Complete application chart for selecting correct Kelly Harness to order for your engine is available on our website: www.aircraftspruce.com

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KA11480E	P/N	Bendix	Slick	4 cyl	6 cyl	Elbow	Straight	Our P/N	Price	P/N	Bendix	Slick	4 cyl	6 cyl	Elbow	Straight	Our P/N	Price
KA11480E	KA11480							08-01095		KA12447							08-01165	\$218.75
KA17300 X X X X 08-01098 3218.75 KA12474 X X X 08-01167 \$218.75 KA11740 X X X X 08-01109 \$218.25 KA12746 X X X X 08-01101 \$218.25 KA12740 X X X X 08-01101 \$218.25 KA12508 X X X X X 08-01101 \$218.55 KA12740 X X X X 08-01101 \$218.25 KA12508 X X X X X 08-01101 \$18.05 KA11740 X X X X X 08-01101 \$218.25 KA12508 X X X X X 08-01101 \$18.05 KA11740 X X X X X 08-01103 \$158.25 KA12508 X X X X X 08-01101 \$18.62.55 KA12740 X X X X 08-01103 \$158.25 KA12508 X X X X X 08-01107 \$158.25 KA12508 X X X X 08-01						X									X			
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KA12157E	KA12154E	Х				Х		08-01128	\$281.25	KA12890E	Х			Х	Х		08-01195	\$281.25
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KA12216	KA12176	Х			Х		Х	08-01131	\$218.75	KA14001		Х	Х			Х	08-01148	\$156.25
KA12216	KA12176E	Х			Х	Х		08-01132	\$281.25	KA14002		Х	Х			Х	08-01150	\$156.25
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SLICK MAGNETOS

4300 AND 6300 SERIES SLICK MAGNETOS

These new lightweight aircraft magnetos are being used by many new equipment manufacturers. Weigh only 3-3/4 lbs. compared to 6-1/4 lbs. for typical old style magnetos. All units carry a six-month warranty after delivery to the user. These new model magnetos are completely rebuildable. The old 4000/4100 magnetos may not be returned as an exchange unit for a new magneto of the same model. Most other Magnetos may be returned for core credit. Drive gears are not included.

IF NO CORE IS RETURNED. ADD \$150 TO THE PRICE OF A NEW MAGNETO.

ALL SLICK MAGNETO AND HARNESS PRICES SHOWN ARE WELL BELOW SLICK FACTORY LIST PRICE. WE WILL BEAT ANY COMPETITOR'S ADVERTISED PRICE!

Slick Harnesses in Custom Colors

Slick harnesses come standard in silver. Harnesses are now available with blue, yellow or red wire on a special order basis at additional cost Request quote by giving harness P/N and color of wire desired.

4300 SERIES (4-CYLINDER) MAGNETOS

Application (See Note)	Magneto*	Rotation & Impulse	New Magneto (Exchange)		e Harness plug Con	
Continental A65-8, A75-8,C75-8 C85-8, C90-8	4330	R.H. with Impulse	\$571.00	M2045	5/8-24	\$210.95
Continental C75-12,-15 C85-12,-14,-15 C85-12F,-14F,-15F*** C90-12,-14,-16*** 0-200A,B,C	4301	L.H. with Impulse	\$571.00	M1780	5/8-24	\$210.95
Lycoming 0-235 0-290***,0-320,0-360 IO-320E1B,E2B AEIO-320E1B,E2B AEIO-360B1C6,H1A	4370 4371	L.H., no Impulse L.H. with Impulse	\$495.00 \$559.00	M4001/M4004 M2508	5/8-24 3/4-20	\$208.95 \$208.95
VW Conversion Single Ignition	4316	R.H. with Impulse	\$571.00	M2266 (1Mag)	5/8-24	\$210.95

Starts determined by engine manufacturer. Lag angles: 4350 - no lag, 4351 - 20° lag, 4281 - 5° lag. Magneto Flange Gaskets not included. Order Lic. #62224 or Cont. #535324.

*4300 series replaces 4200 and feature improved cases and new bearings.

Drive Gear No. <u>36066</u> applicable to Cont. A65-8, A75-8, C75-8, C85-8, C90-8, C85-12-14-15, C90-12-14-16 and 0-200A,B,C w/ light accessory case......\$491.95

Drive Gear No. 36067 applicable to Cont. C75-12, C85-12, C90-12 and 0-200 with heavy accessory case.\$148.00

*** The magnetos shown will fit the engine but installation is not FAA approved. Form 337 required. Note 2: Specify adapter thickness. M2638-1 (.560"), M2638-2 (.660"), M2638-3 (.760"), M2637 (.810"), measured from mounting pad to front of engine gear.

PLEASE REMOVE DRIVE GEARS BEFORE RETURNING MAGNETO CORES FOR CORE CREDIT.

6300 SERIES (6-CYLINDER) MAGNETOS

Application		Rotation &	New Magneto	Complete Harness (2 Mags) Sparkplug Connector						
	Magneto*	Impulse	(Exchange)							
Continental 0-300, C125***,C145	6364	L.H. with Impulse	\$571.00	M2932 M2935	5/8-24 3/4-20	\$305.95 \$305.95				
Continental GO-300	6367	R.H. with Impulse	\$571.00	M2938 	5/8-24 3/4-20	\$305.95 				
Continental	6362 or 6382 0-470 (All)	R.H. with Impulse	\$571.00	M1878 M1480	5/8-24 3/4-20	\$305.95 \$305.95				
Continental TSIO-470, IO-520	6362 or 6382	R.H. with Impulse	\$571.00	M1878 M1480	5/8-24 3/4-20	\$305.95 \$305.95				
Continental IO-470 (All)	6362 or 6382 680 Series	R.H. with Impulse	\$571.00	M1878 M1480 M1990	5/8-24 3/4-20 3/4-20	\$305.95 \$305.95 \$305.95				

6300 Series Replaces 6210 & 6262 magnetos. Includes new improved case and bearings.

SLICK REBATE PROGRAM

Unison Industries offers the following cash values for upgrading piston aircraft engines to Slick Ignition products under their popular "REBATE PROGRAM":

Complete Engine Upgrade (2 mags+harness) \$150.00

One Magneto. \$30.00 One Ignition Harness...... \$35.00

Rebate does not apply to Slick Magneto cores. Factory rebates subject to change by factory. Slick requires a minimum of 90-120 days to process rebates. Rebates are sent direct from Slick to the purchaser, not through Aircraft Spruce.

Slick Magneto upgrade kits available for most Continental & Lycoming Engines. Provide engine make & model and spark plug size and request quotation on applicable upgrade kit.



SLICK MAGNETO ASSEMBLY & TIMING KIT

T-100 Assembly and Timing Kit for field-repairable Slick 4300/6300 Series Magnetos.

P/N T-100

\$345.95

AIRCRAFT SPRUCE WEST

260

Prices Subject to Change Without Notice

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SLICK MAGNETOS - IGNIT

SLICK MAGNETO UPGRADE KITS

We offer complete Slick factory upgrade/conversion kits for virtually all general aviation aircraft. These kits we offer complete Slick ractory pegraders of the soft ractory files for include two factory new Slick magnetos, a complete Slick ignition harness, and conversion information. A \$150.00 factory rebate is available for these kits. Add \$300 core charge to the kit prices which is refundable upon return of the two old magnetos to Aircraft Spruce. Specify aircraft and engine make and model when ordering.

As of 2001 most Slick Upgrade Kits now incl. 2 mags., complete harness and 8 Unison spark plugs. Prices of kits vary depending on whether or not kits incl. spark plugs.

Slick Kit Part No.	Spark Plug Size	Engine Application 4 Cyl. Single Impulse 2 Mags & 1 set Ignition Harness	Price Add \$300 Core Charge to all kits
K4516	5/8" Autolite Plugs included	Lycoming:0-235-C1A, C1C, C2C, E1, E2B, F1, G2B, H2C, J2B 0-320-A1A, A2D, C1A, D1D, D2G, D2H, D3G, E1J, E2D, E2E, E2G, E3D 10-320-B1B, E1B, E2B, A2B, AE10-320-E1B, E2B 0-360-A1NG, A2H, A4K, A4M, B1A, C1E, C1F, C2B, C2E, D1A 10-360-B1FG A10-360-A2B AE10-360-A2B, B1F6, B2F6, H1A	\$1,242.00 + Core
K4315	3/4" Autolite Plugs included	Lycoming: 0-235-C1C, C2C, E2B, F1, G2B, J2B, N2C, 0-320-A1A, B1A, B2A, C1A, C2A, C2B, C2C, C3A, C3B, C3C, D1D, D2G, D2H, D3G, E1J, E2D, E2E, E2G, E3D, 0-320-B1B, E1B, A10-320-A2B, AE10-320-E1B, E2B 0-360-A1NG, A2H, A4K, B1A, C1E,C1F,C2B,C2E,D1A 10-360-B1F6 A10-360-A2B AE10-360-A2B, B1F6, B2F6, H1A	\$1,182.00 + Core
Slick Kit Part No.	Spark Plug Size	Engine Application 4 Cyl. Single Impulse	
K4517-40	3/4" * *Autolite plugs included	Lycoming: 0-235-C1, C2A, E2A, F2A; G1, G2A, J2A 0-290-D 0-320-A1B, A2A, A2B, A3A, A3B B1A, B1B, B2A, B2B, B3A, B3B, C2A, C2B, C2C, C3A, C3B, C3C, D1A, E1A, E2A, E2H 10-320-B1C, B2A, E1A, E2A, AE10-320-E1A, E2A 0-360-A1AWD, A2A, A1H, A3A, A4A, A4J, B2A, C1A, C1G, C2A, D2A 10-360-A1B, B4A, AE10-360-A1D, B4A Lycoming: 0-235-C1, C2A, C2B, E2A, F2A, F2B; G1, G2A, J2A 0-290-D 0-320-A1B, A2A, A2B, A3A, A3B, B2B, B3A, B3B, D1A, D1C, D1F, D2A, D2C, E1A, E2A, E2H, E3H 10-320-B1C, B2A, D1A, DIB, E1A, E2A A10-320-AIB, B1B, C1B AE10-320-DIB, D2B, E1A, E2A	\$1,182.00 + Core \$1,182.00 + Core
K4520-40	5/8" *	A2G, A3A, A4A, AHG, A4J, B2A, C1A, C2A, D2A 10-360-A1B, B4A, C1D6, F1A AE10-360-B4A Continental: C-75-12, 15 C-85-14, 15 C-90-12, 14, 16, 16F 0-200-A, B, C	\$1,243.00 + Core
K4335	NA	Consists of 4333 AMAG + One Drive Gear	\$605.00
K4334-40	5/8" *	A-65 All, A-75 All (Except -12,-15) C-85 All (Except-12, 14, & 15) Includes Drive Gears	+ \$150.00 Core \$1,243.00 + Core
Slick Kit Part No.	Spark Plug Size	Engine Application 6 Cyl. Dual Impulse	
K6520-38	5/8" *	Continental: 0-470, B-C1, C, E, G,	\$1,322.00 +Core
K6320	3/4" * Autolite plugs incl.	Continental: G-C1, H, J, K, K-C1, L, L-C1,M, M-C1, N, P, R, S, U 10-470-A, C, D, E, F, G, H, J, K, L, LO,M, N, P, R, S, T, U, V, VO 10-520-A, B, BA, BB, C, CB, D, E, F, G, H, J, K, L, M, MB, N, NB	\$1,323.00 + Core

1. Engine Manufacturer:	n selecting th n harness:
2. Engine Model Number:	
3. Engine Type (4 or 6 Cylinder):	
4. Current Ignition System Manufactur	rer:
a) Number of impulse coupled magne	tos (1 or 2):
Magneto Shaft Rotation (Right or Let plate on current magneto	
b) Number of Direct Drive (Non-Impu	lse) Magneto
c) Number of Retard Breaker Magnet d) Are the magnetos pressurized?	
e) Spark plug size (5/8" or 3/4")	
5. Do you want to upgrade from a sin a dual impulse system?	gle impulse t
If yes, an additional drive gear and/o chase may be required.	r adapter pu
6. Are you upgrading from a 600 Se	ries to a 620
Series magneto?	
	Adapter to b Iternately, pu

Add \$300.00 core charge to all kit prices (refundable with return of old Magnetos) Request quotation for kits for unlisted engines. * Autolite Plugs included.

Slick Ignition Harnesses

Engine	Magneto	Plug	Model	Price	Engine	Model	Price			
Cont A65, A75, C85, C90	SLK 4300 series	5/8-24	M2045	\$210.95	LYC O-235, O-320	SLK 4250/4251	5/8-24	M2363	\$210.95	
Cont C75, C85, C90, O200	BDX S4-20/S-200	5/8-24	M2007	\$210.95	LYC O-235 L2C	SLK 4300 series	5/8-24	M2363	\$210.95	
Cont O-200	BDX S4-20/S-200	5/8-24	M2007	\$210.95	LYC O-320	BDX S4-20/S-200	5/8-24	M2364	\$208.95	
Cont O-200	SLK 4301	5/8-24	M1780	\$210.95	LYC O-360	BDX S4-1200	5/8-24	M2365	\$208.95	
Cont O-300	BDX S6-20/S-200	5/8-24	M2130	\$305.95	LYC O-320, O-360	BDX S4-20/S-200	3/4-20	M2360	\$208.95	
Cont O-300	SLK 6300 series	5/8-24	M2932	\$305.95	LYC O-235, O-320, O-360	SLK 4300 series	5/8-24	M4004	\$208.95	
Cont C-125/145, O-300	SLK 664	5/8-24	M1884	\$305.95	LYC O-235, O-320, O-360	SLK 4300 series	3/4-20	M2508	\$208.95	
Cont O/IO-470	SLK 662	3/4-20	M1480	\$305.95	LYC O-540	BDX S6-20/S-200	5/8-24	M2121	\$305.95	
Cont O/IO-470	SLK 662	5/8-24	M1878	\$305.95	LYC O-540	BDX S6-20/S-200	3/4-20	M2120	\$305.95	
Cont O/IO-470, 10-520	BDX S-1200	3/4-20	M1740	\$305.95	LYC O-540	SLK 6300 series	5/8-24	M6000	\$305.95	
Cont O/IO-470, 10-520	SLK 6300 series	5/8-24	M2828	\$301.95	LYC O-540	SLK 6300 series	3/4-20	M6003	\$305.95	
Cont O/IO-470, 10-520	SLK 6300 series	3/4-20	M2381	\$298.95	LYC O-540	SLK 6300 series	3/4-20	M2896	\$305.95	
Cont O/IO-520	BDX S6-20/S6-200	5/8-24	M1978	\$305.95	Give us a call with your engine type, magneto model no., and spark plug type					
Cont TSIO-520	BDX S6-20/S-200	3/4-20	M1730	\$302.95	02.95 specific application, Shipping Weight (3 Lbs.)					

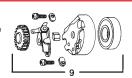
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261

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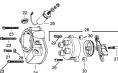
If yes, purchase a complete Engine Upgrade Kit.



SLICK MAGNETOS

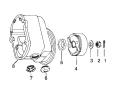


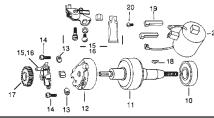


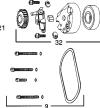


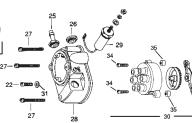
									40	00.05	DVIIO		TO 1 1	O.T.								
Ref									430	JU SE	RVICI	= PAH	TS LI	51							Qty	Price
No.	Description	4301	4302	4303	4316	4330	4331	4342	4344	4345	4347	4348	4353	4354	4370	4371	4372	4373	4374	4381	Uséd	Each
1	Cotter pin	M2556 M2556	M2556	M2556	M2556	M2556	M2556	M2556	M2556	M2556	M2556	M2556	M2556	1	\$0.86							
2	Nut	M3019 M3019	M3019	M3019	M3019	M3019	M3019	M3019	M3019	M3019	M3019	M3019	M3019	1	\$0.68							
3	Washer	M3172 M3172	M3172	M3172	M3172	M3172	M3172	M3172	M3172	M3172	M3172	M3172	M3172	1	\$2.10							
4	Impulse Coup-																					
	ling Assembly	M3007	-	-	M3076	M3068	-	-	-	-	-	-	-	M3529	-	M3163	M3100	M3529	M3689	M3007	1	\$227.95
5	Oil Seal	M3062 M3062	M3062	M3062	M3062	M3062	M3062	M3062	M3062	M3062	M3062	M3062	M3062	1	\$5.90							
6	Air Vent	M1077 M1077	M1077	M1077	M1077	M1077	M1077	M1077	M1077	M1077	M1077	M1077	M1077	1	\$2.55							
7	Frame	M3859	M3900	M3859	M3888	M3888	M3900	M3900	M3900	M3900	M3900	M3900	M3900	M3859	M3900	M3859	M3859	M3859	M3888	M3859		\$130.95
8	Rotor	M3073	M3518	M3338	M3047	M3065	M3065	M3548	M3513	M3548	M3548	M3513	M3548	M3158	M3548	M3158	M3158	M3158	M3065	M3158		\$171.95
9	Bearing Kit	K3318-4	K3318-4	K3318-4	K3318-4	K3318-4	K3318-4	K3301	K3301	K3301	K3301	K3301	K3301	K3301	K3318-4	K3318-4	K3318-4	K3318-4	K3318-4	K3318-4	1	\$130.95
10	Ball Bearing	M3006 M3006	M3006	M3006	M3006	M3006	M3006	M3006	M3006	M3006	M3006	M3006	M3006	1	\$22.80							
11	Bearing Cap Ass.	M3485	M3485	M3485	M3485	M3485	M3485	M3630	M3630	M3630	M3630	M3630	M3630	M3630	M3485	M3485	M3485	M3485	M3485	M3485	1	\$48.30
12	Bearing Cap Clamp	M3018	M3018	M3018	M3018	M3018	M3018	M3018	M3018	M3018	M3018	M3018	M3018	M3018	M3018	M3018	M3018	M3018	M3018	M3018	2	\$0.68
13	Screw	M3221 M3221	M3221	M3221	M3221	M3221	M3221	M3221	M3221	M3221	M3221	M3221	M3221	2	\$5.60							
14	Contact Point																					
	Kit-Primary	M3081	M3081	M3081	M3081	M3081	M3081	M3637	M3637	M3637	M3637	M3637	M3637	M3637	M3081	M3081	M3081	M3081	M3081	M3081	1	\$29.90
15	Contact Point																					
16	Kit-Secondary	-	-	-	-	-	-	M3740	M3740	M3637	M3637	M3637	M3637	M3637	-	-	-	-	-	-	1	\$48.60
17	Rotor Gear	M3827 M3827	M3827	M3827	M3827	M3827	M3827	M3827	M3827	M3827	M3827	M3827	M3827	1	\$5.70							
18	Woodruff Key	M2536 M2536	M2536	M2536	M2536	M2536	M2536	M2536	M2536	M2536	M2536	M2536	M2536	1	\$4.55							
19	Coil Wedge	M3040 M3040	M3040	M3040	M3040	M3040	M3040	M3040	M3040	M3040	M3040	M3040	M3040	2	\$5.30							
20	Screw	M3020 M3020	M3020	M3020	M3020	M3020	M3020	M3020	M3020	M3020	M3020	M3020	M3020	1								
21	Coil*(see below)	M3975	M3975	M3975	M3975	M3975	M3975	M3975	M3975	M3975	M3975	M3975	M3975	M3975	M3975	M3975	M3975	M3975	M3975	M3975	1	\$195.95
22	Screw	M2555 M2555	M2555	M2555	M2555	M2555	M2555	M2555	M2555	M2555	M2555	M2555	M2555	1	\$5.90							
23	Air Vent w/Hood	M3084 M3084	M3084	M3084	M3084	M3084	M3084	M3084	M3084	M3084	M3084	M3084	M3084	1	\$5.60							
24	Screw	M3015	M3015	M3015		M3015			M3015							M3015			M3015	M3015	3	\$6.70
25	Housing, Dist.	M3902	M3902	M3902	M3902	M3902	M3902	M3874	M3874	M3832	M3832	M3832	M3832	M3832	M3902	M3902	M3902	M3902	M3902	M3902	1	\$89.00
26	Dist. Block &																			.,		
	Gear Assembly	K3822	K3822		K3822	K3822	K3822	K3822			K3822		K3822	K3822		K3822	K3822	K3822	K3822	K3822	1	\$196.95
27	Carbon Brush		M3215		M3215		M3215	M3215	M3215					M3215		M3215		M3215	M3215	M3215	1	\$5.20
28	Washer		M2532		M2532		M2532	M2532	M2532							M2532	M2532	M2532	M2532	M2532	1	\$1.15
29	Screw	M3021 M3021			M3021	M3021	M3021	M3021	M3021	M3021	M3021	M3021	M3021	2	\$3.75							
30	Spacer	M3826 M3826	M3826	M3826	M3826	M3826	M3826	M3826	M3826	M3826	M3826	M3826	M3826	2	\$13.20							

*Replaces M3525 Coil









									630	0 SE	RVIC	E PAI	RTS	LIST									Qty.	
Description	6310	6314	6320	6324	6331	6340	6350	6351	6355	6360	6361	6362	6363	6364	6365	6367	6371	6380	6382	6390	6391	6393	Used	Price ea
Cotter pin	M2556	M2556	M2556	M2556	M2556	M2556	M2556	M2556	M2556	M2556	M2556	M2556	M2556	M2556	M2556	M2556	M2556	M2556	M2556	M2556	M2556	M2556	1	\$0.86
Nut, Impulse Coupling	M3019	M3019	M3019	M3019	M3019	M3019	M3019	M3019	M3019	M3019	M3019	M3019	M3019	M3492	M3019	M3492	M3019	M3019	M3019	M3019	M3019	M3019	1	\$0.68
Washer, Impulse																								*****
Coupling	M3172	M3172	M3172	M3172	-	-	-	-	-	-	-	M3172	-	-	-	-	-	M3172	M3172	-	-	-	1	\$2.10
Impulse Coupling Ass.	M3050	M3089	M3050	M3089	M3800	-	-	M3333	M3635	-	M3333	M3050	-	M3590	-	M3524	-	M3050	M3050	-	-	-	1	\$213.95
Oil Seal	M3062	M3062	M3062	M3062	M3331	M3331	M3331	M3331	M3331	M3331	M3331	M3062	M3331	M3062	M3331	M3062	M3331	M3062	M3062	M3331	M3331	M3331	1	\$5.90
Pressure Vent Plug	-	-	M3179	M3179	M3179	M3179	-	-	-	M3179	M3179	-	M3179	-	M3179	-	-	-	-	-	M3179	-	1	\$3.15
Air Vent	M1077		-	-	-	-	M1077	M1077	M1077	-	-	M1077	-	M1077	-	M1077	M1077	M1968	M1968	M1077	-	M1077	1	\$2.55
Frame	M3837	M3847	M3837	M3847	M3888	M3900	M3900	M3859	M3859	M3900	M3859	M3837	M3900	M3853	M3900	M3856	M3900	M3850	M3850	M3900	M3900	M3900	1	\$168.95
Gasket Pressure Kit		.	K3307	K3307	K3307	K3307	.	.	.	K3307	K3307	.	K3307	.	K3307	K3307	.	1	\$42.80
Ball Bearing	M3006	M3006	M3006	M3006	M3006	M3006	M3006	M3006	M3006	M3006	M3006	M3006	M3006	M3006	M3006		M3006		M3006	M3006	M3006	M3006	1	\$22.80
Rotor	M3047	M3093	M3047	M3093	M3792	M3801	M3117	M3327	M3416	M3117	M3327	M3047		M3496	M3117	M3499	M3117	M3047	M3047	M3117	M3801	M3117	1	\$173.95
Bearing Cap Assembly	M3485	M3485	M3485		M3485	M3485	M3485	M3485	M3485	M3485		M3485	M3630			M3485	M3630		M3485	M3630	M3630	M3630	1	\$48.30
Bearing Cap Clamp	M3018	M3018	M3018	M3018	M3018	M3018	M3018	M3018	M3018	M3018	M3018	M3018	M3018	M3018	M3018		M3018		M3018	M3018	M3018	M3018	2 2	\$0.68
Screw Contact Pt. Kit-Primary	M3221 M3081	M3221 M3081	M3221 M3081	M3221 M3081	M3221	M3221	M3221	M3221	M3221 M3081	M3221 M3081	M3221 M3081	M3221 M3081	M3221	M3221 M3081	M3221 M3637	M3221 M3081	M3221 M3637	M3221 M3081	M3221 M3081	M3221 M3637	M3221 M3637	M3221 M3637	2	\$5.60 \$29.90
Contact Pt. Kit-Secondary	IVI3U8 I	IVI3U8 I	IVI3U8 I	IVI3U8 I	M3081	M3081	M3081	M3081	IVI3U8 I	IVI3U8 I	NISUBI	IVI3U8 I	M3637 M3637	IVI3U8 I	M3637	IVI3U8 I	M3637	IVIOUBI	IVI3U8 I	M3740	M3637	M3637	1	\$48.60
Rotor Gear	M3828	M3828	M3838	M3828	Magaa	M3838	M3828	M3828	M3828	M3828	M3828	M3828	M3828	M3828	M3828	M3828	M3828	M3828	M3828	M3828	M3828	M3828	- 1	\$5.50
Woodruff Key	M2536	M2536	M2536	M2536	M2536	M2536	M2536	M2536	M2536	M2536	M2536	M2536	M2536	M2536	M2536		M2536		M2536	M2536	M2536	M2536	2*	\$4.55
Coil Wedge	M3040	M3040	M3040	M3040	M3040	M3040	M3040	M3040	M3040	M3040	M3040	M3040	M3040	M3040	M3040		M3040		M3040	M3040	M3040	M3040	2	\$5.30
Screw	M3020	M3020	M3020	M3020	M3020	M3020	M3020	M3020	M3020	M3020	M3020	M3020	M3020	M3020	M3020	M3020	M3020	M3020	M3020	M3020	M3020	M3020	2	ψ5.00
Coil** (see below)	M3975	M3975	M3975	M3975	M3975	M3975	M3975	M3975	M3975	M3975	M3975	M3975	M3975	M3975	M3975	M3975	M3975	M3975	M3975	M3975	M3975	M3975	1	\$195.95
Screw	M2555	M2555	-	-	-	-	M2555	M2555	M2555	-	-	M2555	-	M2555	-	M2555	M2555		M2555	M2555	-	M2555	1	\$5.90
Adapter	-	-	-	-	-	-	-	-	-	-	-	M3154	-	-	-	-	-	-	M3154	-	-	-	1	\$36.40
Screw	-	-	-	-	-	-	-	-	-	-	-	M3125	-	-	-	-	-	-	M3125	-	-	-	3	\$9.10
Pressure Tube Fitting	-	-	M3180	M3180	M1280	M1280	-	-	-	M1280	M1280	-	M1280	-	M1280	-	-	-	-	-	M1280	-	1	\$3.85
Air Vent with Hood	M3084	M3084	-	-	-	-	M3084	M3084	M3084	-	-	M3084	-	M3084	-	M3084	M3084	M3084	M3084	M3084	-	M3084	1	\$5.60
Screw	M3015	M3015	-	-	-	-	M3015	M3015	M3015	-	-	M3015	-	M3015	-	M3015	M3015	M3015	M3015	M3015	-	M3015	3	\$6.70
Housing, Distributor	M3902		M3902	M3902	M3902	M3902	M3902	M3902	M3902	M3902		M3902		M3902	M3832		M3832		M3902	M3874	M3832	M3832	1	\$89.00
Condenser	M3183	M3183	M3183	M3183	M3183	M3183	M3183	M3183	M3183	M3183	M3183	M3183	M3183	M3183	M3183	M3183	M3183	M3183	M3183	M3183	M3183	M3183	1	\$73.25
Distributor Block &																								
Gear Assembly	K3823	K3823	K3823	K3823	K3823	K3823	K3823	K3823	K3823	K3823	K3823	K3823	K3823	K3823	K3823	K3823	K3823	K3823	K3823	K3823	K3823	K3823	1	\$209.95
Washer		M2532	.	.	.		M2532	M2532	M2532	.		M2532	.	M2532	.	M2532	M2532			M2532	-	M2532	1	\$1.15
Bearing Kit	K3320	K3320	K3320	K3320	K3319	K3319	K3319	K3319	K3319	K3319	K3319	K3320	K3302	K3320	K3302	K3320	K3302	K3320	K3320	K3302	K3302	K3302	1	\$96.75
Carbon Brush	M3215	M3215		M3215	M3215	M3215		M3215	M3215	M3215		M3215			M3215		M3215			M3215	M3215	M3215	1	\$5.20
Screw	M3021	M3021	M3021	M3021	M3021	M3021	M3021	M3021	M3021	M3021	M3021	M3021	M3021	M3021	M3021	M3021	M3021	M3021	M3021	M3021	M3021	M3021	2	\$3.75
Spacer	M3826	M3826	M3826	M3826	M3826	M3826	M3826	M3826	M3826	M3826	M3826	M3826	M3826	M3826	M3826	M3826	M3826	M3826	M3826	M3826	M3826	M3826	2	\$13.20

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262
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SHIELDED IGNITION HARNESSES

AERO-LITE FAA APPROVED SHIELDED IGNITION HARNESSES



Aero-Lite harnesses are manufactured to rigid FAA-PMA and MIL-3702 specifications and are warranted to T.B.O. They are available for Lycoming, Continental and Franklin engines and come complete with all tiedowns and clamps. Stock Aerolite harnesses are furnished with blue wire and straight fittings. For 90° right angle fittings substitute 'R" in place of "S" in Aerolite P/N and add \$50 for 4 cyl. and \$70 for 6 cyl. engines. Black, red or yellow wires are special order.



STOCK AERO-LITE IGNITION HARNESSES

Contine	ntal Engin	es	Lycoming Engines							
Aero-Lite Part No.	replaces Slick	replaces Champion	Aero-Lite Part No.	replaces Slick	replaces Champion					
C16-2BS-II	M1730	CH11730	A20-2BS-II	M2120	CH12120					
C16-4BS-II	M1740	CH11740	A20-2AS-II	M2121	CH12121					
C31-5AS-II	M1780	CH11780	A20-4AS-II	M2154	CH12154					
C16-2AS-II	M1978	CH11978	A20-4BS-II	M2157	CH12157					
C31-1AS-II	M2007	CH12007	A30-1BS-II	M2360	CH12360					
C9-2BS-II	M2015	CH12015	A30-1AS-II	M2364	CH12364					
C1-5AS-II	M2045	CH12045	A30-3AS-II	M2365	CH12365					
C3-2AS-II	M2130	CH12130	A30-5AS-II	M4001	CH14001					
C1-1AS-II	M2351	CH12351		DUALS*						
C16-11BS-II	M2381	CH12381	A42-10BS	M2918	10-821625-4					
C19-11AS-II	M2932	CH12932	A45-10AS	M2917	10-821414-4					

Stock 4 Cylinder Harnesses	\$127.00
Stock 6 Cylinder Harnesses	
Stock 4 Cyl Dual Harnesses	
Stock 6 Cyl Dual Harnesses	

^{*}Core deposit of \$125 required unless dual magneto cover accompanies order.
**Call us for prices on 8-cylinder harnesses or individual leads.

Prices for Special Ord	er Aero-Lite Har	nesses
Aero-Lite Original harnesses Machined lead fittings screw into threaded magneto plate ports for eas replacement of worn out leads	4-cyl. Engines \$151.00 sy	6-cyl. Engines \$219.00
Aero-Lite II** Built with new swaged (PMA) magneto plates, similar to those on original factory harnesses	4-cyl. Engines From \$127.00	6-cyl Engines From \$186.00
Aero-Lite Custom harnesses Rebuilt to customer specifications using original swaged magneto plate An example of the Aero-Lite Custom harness is the dual Bendix harness.	.**	6-cyl. Bendix DR QUOTE

Note: For 90° brass spark plug elbow fittings, add \$50 to 4-cylinder prices, and \$70 to 6-cylinder prices.

Ordering is simple! Just specify:								
Harness Leads: Threaded or Swaged								
Lead Termination: 90° Elbows or Straight fittings								
Spark Plug Size: REM (5/8") or RHM (3/4")								
Complete Engine Ma	Complete Engine Make and Model:							
Complete Magneto T	ype:							
Wire Color; Blue, Black, Red or Yellow:								
and we'll do the rest!								

LIGHTWEIGHT HIGH TEMPERATURE SHIELDED IGNITION HARNESSES MFG. BY ACS PRODUCTS CO.



New production ignition harnesses at remarkably low prices. Late type 5MM wire constructed of 16 strands of tightly braided copper wire impregnated with scuff resistant white silicone. All strands must fracture before a complete open circuit type failure occurs thus extending lead life. Lead flexibility is retained from -65° to 400° F. Moisture and cleaning solvent penetration is eliminated by the impregnated silicone coating. This extremely flexible wire lends itself to sharp bends thereby eliminating the need for old style harness elbows. No soldered joints in the grounding circuit. Custom made for most 4 cylinder and 6 cylinder engines using Bendix or Eisemann magnetos and 4 cylinder engines using Slick magnetos. Cable outlet plates are not furnished for Bendix and Eisemann mags as these are already installed on the magnetos in service. They must be purchased separately for new magneto installations. Harnesses for Slick magnetos are furnished with the backplates installed. Standard harnesses for the Bendix S4/S6 mags are fitted with a male nut which screws into the threaded outlet plate on the back of the mag. On some installations, the wires run through an unthreaded plate and attach directly to the mag terminals eliminating the use of the nut. If such a harness is required, send the old harness to us and it will be duplicated. Add \$60.00 to price of harness for custom work required. Harnesses for old style Bendix SF4 and SF6 magnetos are fitted with female nuts.

HARNESSES FOR BENDIX AND EISEMANN MAGNETOS

All 4-Cylinder Harnesses (8 wires)	\$109.95
All 6-Cylinder Harnesses (12 wires)	\$173.95
(Not Available for Bendix S1200 Magnetos)	
Replacement Leads to 48" (Specify Length)	\$14.50
(Bendix & Eisemann only)	

HARNESSES FOR SLICK MAGNETOS

For 4000, 4200 & 4300 Series Mags (4 Cyl.) Only\$119.95

All Harnesses Furnished with Cable Ties and Clamps FOR PLUGS WITH 5/8-24 BARREL SIZE ONLY

BENDIX MAG	NETOS	SLICK MAGNETOS			
Engine/Magneto	Part No.	Engine/Magneto	Part No.		
Cont. A-65/S4	12301-02	VW (M2266)	12304-32		
C-85/S4	12301-05	Lyc 0-235 (M2363)	12304-33		
C-90/S4	12301-06	0-290 (M2363)	12304-33		
0-200/S4	12301-05	0-320,0-360 (M2363)	12304-33		
LYC. 0-100/S4	12301-21	Cont. 0-200 (1780)	12304-31		
0-235/S4	12301-21	C-75 (1780)	12304-31		
0-290/S4	12301-21	C-85 (1780)	12304-31		
0-320/S4	12301-22	C-90 (1780)	12304-31		
0-360/S4	12301-22	EISEMANN MAG	NETOS		
Cont. A-65/SF4	12302-02				
A-75/SF4	12302-03	Engine/Magneto	Part No.		
Lyc. 0-100/SF4	12302-20	Cont A65/LA-4	12303-04		
0-235/SF4	12302-20	A75/LA-4	12303-04		
0-290/SF4	12302-20	C-85/LA-4	12303-07		
Cont. E-185/S6	12305-10	E-185/LA-6	12306-12		
E-225/S6	12305-11	Franklin 150/LA-6	12306-40		
O-470/S6	12305-13				
C-145/S6	12305-09	ACS Products ignition ha			
O-300/S6	12305-09	be used on experimenta			
Lyc. 0-540/S6	12305-22	on certified aircraft with f			
IO-540/S6	12305-22	al (FAA Form 337). If FA ness is mandatory or if			
Franklin165/S6	12305-41	3/4" spark plugs, use S			
Cont.C-125-SF6	12307-08	Aero-Lite or Champion ha			
Lyc.0-435/SF6	12307-23	1			

AIRCRAFT SPRUCE WEST CORONA, CA • (877) 4-SPRUCE

263

Prices Subject to Change Without Notice

CHAMPION IGNITION HARNESSES

AIRCRAFT ENGINE APPLICATION CHART

	5/8"-24	Magneto	3/4"-20	Magneto		5/8"-24	Magneto	3/4"-20	Magnoto
Engine Model	Spark Plugs (REM)		Spark Plugs (RHM)	Type	Engine Model		Magneto Type	Spark Plugs (RHM	Magneto Type
TEXTRON LYCOMING	opanii nago (nami)	.,,,,,	opanii rago (riim)		TEXTRON LYCOMING	Spark Plugs (REM)	Type	Spark Plugs (Rnivi	Туре
O - 235 -C1, -C1A, -C1B, -C1C,-C2A,	CH12364, CH12364E	BX S4-20,-200	CH12360, CH12360E	BX S4-20,-200	IO - 540 -C4B5	CH12154, CH12154E	BX S6-1200	CH12157, CH12157E	BX S6-1200
-C2C, -E1, -E1B, E2A, -F1, -F1B, -F2A, -G1, -G1B, -G2A,					IO - 540 -C1B5, -N1A5,-C2C, -C4C5,	OTTETO I, OTTETO IE	57.00 1200	CH12037, CH12037E	BX S6-1200
-H2C, -J2A, -K2A,-K2C,-L2A,					-D4A5 O - 540 -A1A,-A1A5,-A1B5,-A1C5,-A1D,	CH12121, CH12121E	DV 00 00 000	CH12120, CH12120E	BX S6-20,-200
-L2C, -M1, -M2C, -M3C, -N2A,					O - 540 -A1A,-A1A5,-A1B5,-A1C5,-A1D, -A1D5,-A2B,-A2D,-A3D5,-A4A5,	CHIZIZI, CHIZIZIE	DA 30-20, -200	CH12120, CH12120E	DA 30-20,-200
-N2C, -P1, -P2A, -P2C, -P3C O - 235 -C2B,-E2B,-F2B,-G2B,-J2B,-K2B	CH12365, CH12365E	BX S4-1200	CH12235, CH12235E	BX S4-1200	-A4B5, -A4C5, -A4D5,-B1A5,				
O - 235 -C1,-C1A,-C1B,-C1C,-C2A,-C2C,	*CH14001, CH14001E	SL 4000	CH12508, CH12508E	SL 4000	-B1B5, -B2A5, -B2B5,-B4A5,				
-E1,-E1B,-E2A,-F1,-F1B,-F2A,	,		,		-B4B5, -D1A5, -E4A5,-E4B5, -F1A5,-F1B5, -H1A5, -H2A5				
-G1,-G1B,-G2A,-H2C,-J2A,-K2A, -K2C,-L2A,-L2C,-M1 -M2C,-M3C,					TIO - 540 -C1A	CH12154, CH12154E	BX S6-1200		
-N2G,-L2A,-L2G,-W1 -W2G,-W3G, -N2A,-N2C,-P1,-P2A -P2C,-P3C					TIO - 540 -A1A, -A1B,-A2A, -A2B			CH12037, CH12037E	BX S6-1200
O - 235 -C1, -C1B, -C2A, -C2B, -L2C,	*CH14004, CH14004E	SL 4000			TELEDYNE CONTINENTAL				
O - 290 -D, -D2, -D2A, -D2B, -D2C	CH12364, CH12364E	BX S4-20,-200	CH12360, CH12360E	BX S4-20,-200	C - 75 -12, -15	CH11780, CH11780E	SL 4000		
O - 290 -D2,-D2B, O - 290 -D, -D2, -D2A, -D2B, -D2C	CH12365, CH12365E *CH14001, CH14001E	BX S4-1200	CH12235, CH12235E CH12508, CH12508E	BX S4-1200	C - 75 -12, -15 C - 85 -12, -12FJ, -14, -15	CH12007, CH12007E CH11780, CH11780E	SL 4000		
O - 290 -D, -D2, -D2B, -D2C	*CH14004, CH14004E	SL 4000	G1112300, G1112300E	SL 4000	C - 85 -12, -12FJ, -14, -15	CH12007, CH12007E	BX S4-20, -200		
AEIO-320 -E1A, -E1B, -E2A, -E2B	CH12364, CH12364E	BX S4-20,-200	CH12360, CH12360E	BX S4-20,-200	C - 90 -12, -14, -16, -16F	CH11780, CH11780E	SL 4000		
AEIO-320 -D1B,-D2B,	CH12365, CH12365E		CH12235, CH12235E	BX S4-1200	C - 90 -12, -14, -16, -16F	CH12007, CH12007E	BX S4-20, -200		
AEIO-320 -E1A, -E1B, -E2A, -E2B AIO-320 -A1A,-A1B,-A2A,-A2B,-B1B,-C1B	*CH14001, CH14001E CH12365, CH12365E	SL 4000 BX S4-1200	CH12508, CH12508E CH12235, CH12235E		C - 125 -ALL C - 125 -2, -2H	CH11884, CH11884E CH12130, CH12130E	SL 600 BX S6-20, -200		
IO - 320 -A1A, -A2A, -B1A, -B1B, -B1C,	CH12364, CH12364E	BX S4-20,-200	CH12360, CH12360E		C - 125 -ALL	CH12932, CH12932E	SL 6000	CH12318, CH12318E	SL 600
-B2A, -C1A, -C1B, -E1A, -E1B,			·		C - 145 -ALL	CH11884, CH11884E	SL 600		
-E2A, -E2B, -F1A IO - 320 -B1D,-B1E, -D1A, D1B, -D1C	CH12365, CH12365E	DV 04 1000	CH12235, CH12235E	DV 94 1200	C - 145 -2, -2H C - 145 -ALL	CH12130, CH12130E CH12932, CH12932E	BX S6-20, -200 SL 6000	CH12318, CH12318E	SL 600
IO - 320 -A1A, -A2A, -B1A, -B1B, -B1C,	*CH14001, CH14001E		CH12508, CH12508E		E - 165 -2	CH12176, CH12176E	BX S6-20, -200	CH12339, CH12339E	
-B2A, -C1A, -C1B, -E1A, -E1B,	,				E - 185 -1, -3, -8, -9, -11	CH12176, CH12176E	BX S6-20, -200	CH12339, CH12339E	BX S6-20, -200
-E2A, -E2B, -F1A	*OUL44004 OUL44004E	01 4000			O - 200 -A, -B, -C	CH11780, CH11780E	SL 4000		
IO - 320 -E2A LIO - 320 -B1A, -C1A	*CH14004, CH14004E CH12364 CH12364E	BX S4-20 -200	CH12360, CH12360E	BX S4-20 -200	O - 200 -A, -B, -C E - 225 -4, -8	CH12007, CH12007E CH12176, CH12176E	BX S4-20, -200 BX S6-20, -200	CH12339, CH12339E	BX S6-20 -200
LIO - 320 -B1A, -C1A	*CH14001, CH14001E	SL 4000	CH12508, CH12508E	SL 4000	O - 300 -A, -B, -C, -D, -E	CH11884, CH11884E	SL 600		
O - 320 -A1A,-A1B,-A2A,-A2B,-A2C,-A2D	CH12364, CH12364E		CH12360, CH12360E		O - 300 -A, -B, -C, -D, -E	CH12130, CH12130E	BX S6-20, -200	01110010 011100	01.000
-A3A,-A3B,-A3C,-B1A,-B1B,-B2A -B2B,-B2C,-B3A,-B3B,-B3C,-C1A					O - 300 -A, -B, -C, -D, -E IO - 360 -A, -C, -CB, -D, -DB, -G, -GB,	CH12932, CH12932E	SL 6000	CH12318, CH12318E CH12015, CH12015E	SL 600 BX S6-20 -200
-C1B, -C2A, -C2B, -C2C, -C3A,					-H, -HB, -J, -JB, -K, -KB			01112010, 01112010E	DA 00-20, *200
-C3B, -C3C, -D1A, -D1B, -D1D,				 	IO - 360 -C, -D, -G			CH12778, CH12778E	SL 6000
-D2A, -D2B, -D2G, -D2H, -D2J,				 	LTSIO-360 -E, -EB, -KB			CH12015, CH12015E	
-D3G, -E1A, -E1B, -E2A,-E2B, -E2D,-E2G,-E2H, -E3D, -E3H					TSIO-360 -A, -AB, -B,-C, -CB, -D, -DB,-E, -EB, -F, -FB, -GB, -H, -HB, -JB,			CH12015, CH12015E	BX 56-20, -200
O - 320 -D1C, -D1F, -D2C, -D2F, -E1C,	CH12365, CH12365E	BX S4-1200	CH12235, CH12235E	BX S4-1200	-KB, -LB, -MB				
-E1F, -E1J, -E2C, -E2F			·		TSIO-360 -A, -B			CH12778, CH12778E	SL 6000
O - 320 -A1A,-A1B,-A2A,-A2B,-A2C,-A2D	*CH14001, CH14001E	SL 4000	CH12508, CH12508E	SL 4000	GIO-470 -A			CH11730, CH11730E	
-A3A,-A3B,-A3C,-B1A,-B1B,-B2A -B2B,-B2C,-B3A,-B3B,-B3C,-C1A	1				IO - 470 -A, -C, -D, -E, -F, -G, -H, -J, -K, -L, -LO, -M, -N, -P, -R, -S, -T,-U,	CH11878, CH11878E	SL 600	CH11480, CH11480E	SL 600
-C1B, -C2A, -C2B, -C2C, -C3A,					-V, -VO				
-C3B, -C3C, -D1A, -D1B, -D1D,					IO - 470 -C, -D, -E, -F, -G, -H, -L, -M, -N,	CH11978, CH11978E	BX S6-20, -200	CH11730, CH11730E	BX S6-20, -200
-D2A, -D2B, -D2G, -D2H, -D2J, -D3G, -E1A,-E1B, -E2A, -E2B,					-P, -R, -S, -U, -V IO - 470 -F, -J, -K, -L, -N, -S			CH11740, CH11740E	DV 06 1000
-E2D, -E2G, -E2H, -E3D, -E3H					10 - 470 -F, -J, -K, -L, -N, -S			CH12216, CH12216E	BX S6-1200
O - 320 -A2A,-A2B,-A2C,-A3A,-A3B,-A3C	*CH14004, CH14004E	SL 4000			IO - 470 -A, -C, -D, -E, -F, -G, -H, -J, -K,			CH12381, CH12381E	SL 6000
-B3C,-D1A,-D2A,-D2B,-E1A,-E2B	OLI40004 OLI40004E	DV 04 00 000	0140000 0140000	DV 04 00 000	-L, -LO, -M, -N, -P, -R, -S, -T,-U,				
O - 340 -A1A, -A2A, -B1A O - 340 -A1A, -A2A, -B1A	*CH12364, CH12364E *CH14001, CH14001E		CH12360, CH12360E CH12508, CH12508E	SI 4000	-V, -VO IO - 470 -F, -J, -K, -L, -N, -S			CH12779, CH12779E	SI 6000
O - 340 -A1A, -A2A	*CH14004, CH14004E	SL 4000			O - 470 -A, -B, -B-C1, -C, -E, -G,-G-C1,	CH11878, CH11878E	SL 600	CH11480, CH11480E	SL 600
AEIO-360 -A1A, -A1D,-A1E, -A2A, -B1B,	CH12364, CH12364E	BX S4-20,-200	CH12360, CH12360E	BX S4-20,-200	-H, -J, -K, -K-C1, -L, -L-C1, -M,				
-B4A, -H1A AEIO-360 -A1B, -A1B6,-A2B, -B1F,-B1F6,	CH12365, CH12365E	BX S4-1200	CH12235, CH12235E	BX S4-1200	-M-C1, -N, -P, -R, -S, -U O - 470 -A, -B, -E, -M, -P, -R	CH11978, CH11978E	BY S6-20 -200	CH11730, CH11730E	BY 96-20 -200
-B1G6, -B2F	G1112303, G1112303E	DX 34*1200	G1112233, G1112233E	DA 34-1200	0 - 470 -A, -B, -E, -W, -F, -R 0 - 470 -R, -S, -U	GITT970, GITT970L	DA 30-20, -200	CH11740, CH11740E	BX S6-1200
AEIO-360 -A1A, -A1D,-A1E, -A2A, -B1B,	*CH14001, CH14001E	SL 4000	CH12508, CH12508E	SL 4000	O - 470 -R, -S, -U			CH12216, CH12216E	BX S6-1200
-B4A, -H1A	0140005 01400055	BV 04 4000	0140005 01400055	BV 04 4000	O - 470 -A, -B, -B-C1, -C, -E, -G,-G-C1,			CH12381, CH12381E	SL 6000
AIO-360 -A1A, -A1B,-A2A, -A2B, -B1B HIO-360 -A1A, -B1A,-B1B, -C1A	CH12365, CH12365E CH12364, CH12364E	BX S4-1200 BX S4-20,-200	CH12235, CH12235E CH12360, CH12360E		-H, -J, -K, -K-C1, -L, -L-C1, -M, -M-C1, -N, -P, -R, -S, -U				
HIO-360 -C1B, -D1A	CH12365, CH12365E	BX S4-1200	CH12235, CH12235E	BX S4-1200	O - 470 -R, -S, -U			CH12779, CH12779E	SL 6000
HIO-360 -A1A, -B1A,-B1B, -C1A	*CH14001, CH14001E	SL 4000	CH12508, CH12508E	SL 4000	TSIO-470 -B, -C, -D	CH11978, CH11978E	BX S6-20, -200		BX S6-20, -200
HIO-360 -B1A HO - 360 -A1A, -B1A, -B1B,	*CH14004, CH14004E CH12364, CH12364E	SL 4000 BX S4-20,-200	CH12360, CH12360E	BX S4-20,-200	GTSIO-520-C, -D, -F, -H, -K, -L, -M, -N IO - 520 -A, -B, -BA, -BB,-C, -CB,-D, -E,	CH11878, CH11878E	SL 600	CH11950, CH11950E CH11480, CH11480E	BX S6-1200 SL 600
HO - 360 -A1A, -B1A, -B1B	*CH14001, CH14001E	SL 4000	CH12508, CH12508E	SL 4000	-G, -H, -J, -K,-L,-M,-MB,-N,-NB	GITTO/O, GITTO/OL	3L 000	G1111400, G1111400E	3L 000
HO - 360 -A1A	*CH14004, CH14004E	SL 4000			IO - 520 -B, -BB, -E	CH11978, CH11978E	BX S6-20, -200	CH11730, CH11730E	
IO - 360 -A1A, -A1D, -A2A, -B1A,-B1B,	CH12364, CH12364E	BX S4-20,-200	CH12360, CH12360E	BX S4-20,-200	IO - 520 -A, -B, -BA, -BB,-C, -CB,-D, -F,			CH11740, CH11740E	BX S6-1200
-B1C,-B1D, -B4A, -C1A, -K2A IO - 360 -A1B, -A1B6, -A1C, -A1D6, -A2B,	CH12365, CH12365E	BX S4-1200	CH12235, CH12235E	BX S4-1200	-J, -K, -L IO - 520 -A,-BA,-BB,-C,-CB,-D,-F,-J,-K,-L,			CH12216, CH12216E	BX S6-1200
-A2C, -B1E, -B1F, -B2E, -B2F,					-A, -B, -BA, -BB, -C, -CB, -D,				20 .200
-B2F6, -C1B, -C1C, -C1C6,				 	-E,-G, -H, -J, -K, -L			01140004 0114005:=	01.0000
-D1A,-E1A,-F1A IO - 360 -C1E6	CH12423, CH12423E	BX S4-1200	CH12616, CH12616E	BX S4-1200	IO - 520 -M, -MB, -N, -NB, IO - 520 -A, -B, -BA, -BB, -C, -CB,			CH12381, CH12381E CH12779, CH12779E	SI 6000
IO - 360 -A1A, -A1D, -A2A, -B1A,-B1B,	*CH14001, CH14001E		CH12508, CH12508E		-D, -E, -F, -J, -K, -L,			J1112110, U1112118E	JL 0000
-B1C,-B1D, -B4A, -C1A, -K2A					IO - 520 -B, -C			CH12779, CH12779E	SL 6000
IO - 360 -A1C, -A2B, -A2C, -B2E,-C1B, -C1C,-D1A	*CH14002, CH14002E	SL 4000		 	LTSIO-520 -AE LTSIO-520 -AE			CH11740, CH11740E CH12216, CH12216E	BX S6-1200
IO - 360 -B1A, -B1B,-B1D, -B4A,	*CH14004, CH14004E	SL 4000			LTSIO-520 -AE			CH12779, CH12779E	SL 6000
IVO - 360 -A1A	CH12364, CH12364E	BX S4-20,-200	CH12360, CH12360E	BX S4-20,-200	TSIO-520 -A, -B, -BB, -BE, -C, -CE, -D,	CH11878, CH11878E	SL 600	CH11480, CH11480E	
IVO - 360 -A1A LIO - 360 -A1H6, -C1E6,	*CH14001, CH14001E CH12365, CH12365E	SL 4000 BX S4-1200	CH12508, CH12508E CH12235, CH12235E		-DB,-E, -EB, -F, -G, -H, -J, -JB, -K, -KB, -L, -LB, -M, -N, -NB,-P,				
LIO - 360 -ATH6, -CTE6,	CH12305, CH12305E CH12423, CH12423E	BX S4-1200	CH12235, CH12235E CH12616, CH12616E	BX S4-1200	-R, -RB, -L, -LB, -M, -N, -NB,-P, -R, -T, -U,-UB, -VB, -WB				
O - 360 -A1A, -A1C, -A1D, -A1H, -A1NG,	CH12364, CH12364E		CH12360, CH12360E		TSIO-520 -AE, -AF, -B, -C, -D, -DB, -E,			CH11740, CH11740E	BX S6-1200
-A2A, -A2D, -A2E, -A2H, -A3A,				 	-G, -H, -J, -JB,-K, -KB, -L, -LB,				
-A3D, -A4A, -A4D, -A4J, -A4K, -A4M, -A4N, -B1A,-B1B, -B2A,					-M, -N, -NB,-P,-R, -T,-UB, -WB TSIO-520 -AE, -AF, -C, -D, -DB,-G, -H, -J,			CH12216, CH12216E	BX S6-1200
-B2B,-C1A,-C1C, -C1E, -C1G,				 	-JB, -K, -KB, -L, -LB, -M, -N,				
-C2A, -C2B, -C2C, -C2D,-C2E,					-NB, -P,-R, -T, -UB, -WB			01140004 0111222	01.0000
-D1A, -D2A, -D2B, -F1A6, -G1A6 O - 360 -A1F, -A1F6,-A1G,-A1G6,-A2F,	CH12365, CH12365E	RX S4-1200	CH12235, CH12235E	BX S4-1200	TSIO-520 -A, -B, -BB, -BE, -C, -CE, -D, -DB,-E, -EB, -F, -G, -H, -J, -JB,			CH12381, CH12381E	SL 6000
-A2G, -A4G,-C1F	01112000, 01112000E	DA 34-1200	01112200, 01112200E	DA 04*1200	-K, -KB, -L, -LB, -M, -N, -NB,-P,				
O - 360 -A1A, -A1C,-A1D,-A1H,-A1NG,	*CH14001, CH14001E	SL 4000	CH12508, CH12508E	SL 4000	-R, -T, -U,-UB, -VB, -WB				
-A2A, -A2D, -A2E, -A2H,-A3A,					TSIO-520 -AE,-AF,-B,-C,-D,-DB,-E,-G,-H,			CH12779, CH12779E	SL 6000
-A3D, -A4A, -A4D, -A4J,-A4K, -A4M, -A4N, -B1A, -B1B,-B2A,				 	-J,-JB, -K, -KB, -L, -LB, -M, -N, -NBPRTUBWB				
-B2B, -C1A, -C1C, -C1E,-C1G,					IO - 550 -A, -F	CH11978, CH11978E	BX S6-20, -200	CH11730, CH11730E	BX S6-20, -200
-C2A, -C2B, -C2C,-C2D,-C2E,				 	IO - 550 -BCDEL		,	CH11740, CH11740E	BX S6-1200
-D1A,-D2A,-D2B,-F1A6,-G1A6 O - 360 -A1A,-A1D,-A2A,-A2D,-D2A,-D2B	*CH14004, CH14004E	SI 4000			IO - 550 -B, -C, -D, -E, -L IO - 550 -A, -B, -C, -D			CH12216, CH12216E CH12381, CH12381E	BX S6-1200 SL 6000
VO - 360 -A1A, -A1B,-B1A	CH12364, CH12364E	BX S4-20, -200	CH12360, CH12360E	BX S4-20200	TSIOL-550 -B			CH12381, CH12381E CH11740, CH11740E	BX S6-1200
VO - 360 -A1A, -A1B,-B1A	*CH14001, CH14001E	SL 4000	CH12508, CH12508E	SL 4000	TSIOL-550 -B			CH12216, CH12216E	BX S6-1200
AEIO-540 -D4A5	CH12121, CH12121E		CH12120, CH12120E		TSIOL-550 -B			CH12779, CH12779E	SL 6000
IO - 540 -A1A5, -B1A5, -B1B5, -B1C5, -C1B5,-C1C5,-C2C,-C4B5,-D4A5	CH12121, CH12121E	BX 50-20, -200	CH12120, CH12120E	DA 50-20,-200	E = Elbow Connector *FAA-Pl	MA Pending	BX = TCM /	Bendix	SL = Slick
-E1A5,-G1A5,-K1C5,-K1D5,-N1A5				 		-			S.OK
	L	DV =2011	<u> </u>		 CH14001 & CH14002 - Standard Harness CH14004 - Non-Standard Assembly - Alter 				
E = Elbow Connector **FAA-P	MA Pending	BX = TCM /	peuaix	SL = Slick	ormeoue - non-oranidard Assembly - Alter	nate ming bequence Wit	ıı nıyııt iviagnetö i	i iiing iop#i əpark Plug	,

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CHAMPION IGNITION HARNESSES



- Heat resistant polymer coating has been specially engineered for high temperature engine environments.
- 5 mm conductor contains 19 strand of stainless steel wire.
- Flexible, copper-tin, nickel plated braid reduces EMI. Performance-proven leads offered in straight or elbowed configurations.
- · Plated-steel nut offers greater strength than aluminum nuts.
- · Replaceable spring saves you time and money.

Complete Harness Assemblies Straight

	Spark Flug Collifector							
CH11480	A	\$326.95	CH12216	B	\$339.95			
CH11730	A	\$323.95	CH12235	B	\$194.95			
CH11740	A	\$301.95	CH12318	B				
CH11780	A	\$219.95	CH12339	B				
CH11878	B	\$332.95	CH12360	B	\$193.95			
CH11884	B	\$394.95	CH12364	A	\$209.95			
CH11950	A	\$311.95	CH12365	A	\$232.95			
CH11978	B	\$310.95	CH12381	A	\$312.95			
CH12007	A	\$204.95	CH12423	B	\$277.95			
CH12015	A	\$333.95	CH12508	B	\$265.95			
CH12037	B	\$399.95	CH12616	B				
CH12120	B	\$387.95	CH12778	B	\$351.95			
CH12121	A	\$334.95	CH12779	B	\$319.95			
CH12130	B	\$357.95	CH12932	B	\$310.95			
CH12154	A	\$347.95	CH14001	A	\$203.95			
CH12157	B	\$392.95	CH14002	B	\$199.95			
CH12176	B	\$313.95	CH14004	B	\$232.95			

Complete Harness Assemblies Elbow Spark Plug Connector

EIDOW Spark Flug	Connecti
CH11730E	\$335.95
CH11740E	\$319.95
CH11780E	\$298.95
CH12007E	\$269.95
CH12015E	\$446.95
CH12121E	\$465.95
CH12154E	\$438.95
CH12364E	\$335.95
CH12365E	\$335.95
CH12381E	\$425.95
CH14001E	\$272.95

Ignition

namess Assen	liblies
CH11978E	\$335.95
CH12037E	\$552.00
CH12120	\$387.95
CH12120E	\$335.95
CH12130E	\$518.00
CH12157E	\$452.95
CH12176E	\$405.95
CH12235E	\$335.95
CH12360E	\$304.95
CH14002E	\$303.95

FP

SLICK START



The FAA-PMA approved SlickStart™ magneto booster system integrates solid state electronics with conventional ignition hardware to deliver optimum spark energy for improved engine starting under all operating conditions. SlickStart™ delivers over 400% more spark energy during start than conventional impulse coupled or retard breaker systems. This added energy enables the magnetos to fire partially fouled spark plugs, ignite less than optimum fuel mixtures, improve hot engine restarts and improve starting performance during extreme cold weather operations

SlickStart™ is designed to replace all TCM/Bendix starting vibrators used in conjunction with Slick Aircraft Products magnetos. SlickStart™ is also approved for use with Slick impulse coupled magnetos to enhance engine starting performance. SlickStart™ is not approved for installation on any airframe equipped with TCM/Bendix 20, 200, 1200, D-2000, or D-3000 series impulse coupled or retard breaker magnetos.

SlickStart[™] can be installed with either impulse coupled or retard breaker magnetos and can be used with either 12V or 24V electrical systems. Fits all Slick impulse coupled and retard breaker 4200/6200 Series and 4300/6300 Series magnetos.

Slick Start for Slick MagnetosP/N 08-01000\$349.95 Slick Start for Bendix MagnetosP/N 08-01005\$349.95



LASAR ELECTRONIC IGNITION SYSTEM BY UNISON

LASAR®, which stands for Limited Authority Spark Advance Regulator, is the first microprocessor based engine control system approved by the FAA for general aviation piston aircraft. With the system operating in its automatic mode, cylinder head temperature, manifold pressure, and engine speed (RPM) are monitored by the LASAR controller to establish and command the optimum ignition timing and spark energy to produce maximum torque from the engine.

LASAR has an inherent mechanical magneto backup system that automatically assumes control if electrical power is interrupted or if the microprocessor detects a system fault. STC approval has been granted for most 320, 360 and 540 engines. Installation requires repalacement of standard magnetos with Lasar magnetos, a LASAR Control Box, which is mounted to the firewall, a low-voltage control harness that carries the electronic signals between the system components. Specify exact aircraft and Engine Models for quotation or Lasar systems.

Benefits from LASAR include:

- * Better engine starting with 3 times more spark energy and higher output voltage.
- * Smoother transition in ignition timing from engine start to idle
- * Faster Rate of Climb

* Increased spark plug life

* EGT reduced by 150°F on average

* Up to 12% Reduced Fuel Consumption

* Up to 8% Increased Horsepower.

CALL AIRCRAFT SPRUCE FOR THE BEST PRICE ON LASAR SYSTEMS!

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SPARK PLUGS

CHAMPION SPARK PLUG APPLICATION CHART

	Standard Massive Electrode		Fine Wire Electrode			
Engine Model	Shie	elded		Shielded		
	5/8"-24	3/4"-20	Unshielded	5/8"-24	3/4"-20	
TELEDYNE CONTINENTAL MOTORS A-65, A-75	REM40E	RHM40E	M41E	REM38S	RHM38S	
C-75, C-85, C-90, C-115, C-125	REM40E	RHM40E RHM40E	M41E M41E	REM38S REM38S	RHM38S	
E-165, E-185, E-225 E-165, E-185, E-225 (14mm Bushing)	REM40E REJ38				RHM38S	
0-200-A, -B, -C GO-300-A, -B, -C, -D, -E, -F	REM40E REM40E	RHM40E RHM40E	M41E	REM38S	RHM38S	
O-300-A, -B, -C, -D, -E, C-145	REM38E REM40E	RHM38E RHM40E	M41E	REM38S	RHM38S	
IO-346-A, -B	REM38E	RHM38E		REM38S	RHM38S	
IO-360-A, -C, -D, -E, -G, -H, -J, -K IO-360-B	REM38E REM40E	RHM38E RHM40E		REM38S REM38S	RHM38S RHM38S	
TSIO-360-A, -B, -C, -CB, -D, -DB -E, -EB, -F, -FB, -G, -GB, -H, -HB, -K, -KB, -LB, -MB						
LTSIO-360,E, -EB, -K, -KB	REM38E	RHM38E		REM38S	RHM38S	
0-470-2 0-470-4, -11, -13, -13A, -15	REM38E REM40E	RHM38E RHM40E		REM38S REM38S	RHM38S RHM38S	
0-470-A, -E, -J, -K, -L, -R, -S	REM40E REM40E	RHM40E RHM40E		REM38S	RHM38S	
0-470-B, -G, -H, -M, -N, -P	REM38E	RHM38E	REM38S	REM38S	RHB36S	
0-470-T, -U		RHB32E			RHB32S	
10-470 -C,-G, -P, -R, -T	REM40E REM38E	RHM40E RHM38E		REM38S	RHM38S	
IO-470-J, -K IO-470-D, -E, -F, -H, -L, -M	REM40E	RHM40E		REM38S	RHM38S RHB36S	
-N, -S, -U, -V,-VO, -LO		RHB32E			RHB32S	
GIO-470-A		RHB32E			RHB36S RHB32S	
LIO-470-A	REM40E REM38E	RHM40E RHM38E		REM38S	RHM38S	
					RHB36S	
TSIO-470-B, -C, -D IO-520-A, -B, -BA, -BB, -C, -CB, -D, -E,		RHB32E			RHB32S RHB36S	
-F, -J, -K, -L, -M, -MB, -N, -NB TSIO-520-A, -B, -BB, -BE -C,-CE,-D,-DB,		RHB32E			RHB32S	
-E, -EB-F, -G, -H,-J,-JB, -K,-KB,-L,-M,-N, -NB,-P, -R,-T,-U,-UB,-V,-VB,-WB,-AE,-AF,					RHB32S	
LTSIO-520-AE		RHB32E			RHB36S	
GTSIO-520-C, -D, -E, -F, -G, -H, -K, -L, -M, -N		RHB32E			RHB32S RHB36S	
TS10-550-A, -B, -C		RHB32E			RHB36S	
10-550-B, -C		RHB32E			RHB32S	
TSIOL-550-A, -B 6-285-B, -BA, -C, -CA, 6-320-A, -B		RHU32E RHU27E			RHU32S**	
W-670 R9A	REM40E REB37E	RHM40E RHB37E	M41E	REM38S REB36S	RHM38S RHB36S	
TEXTRON LYCOMING	1125072	1110072		1125000	11112000	
O-145, GO-145 O-235-C, -E, -H	REM40E	RHM40E	M41E M41E	REM38S	RHM38S	
	REM38E REM37BY*					
O-235-F, -G, -J				REM38S		
	REM40E REM38E	RHM40E				
O-235-K, -L, -M, -N, -P O-290 Series	REM37BY* REM40E	RHM38E RHM40E	M41E	REM38S REM38S	RHM38S RHM38S	
	REM40E REM37BY*	RHM40E	M41E	REM38S	RHM38S	
O-320-A, -C, -E O-320-B, -D, -H	REM40E		IVITIE	HEIWOOO	TI IIVIOO	
AIO-320, LIO-320-B IO-320-B, -C, -D, AEIO-320,-A, -B,-C,-I	REM38E REM37BY*	RHM40E RHM38E		REM38S	RHM38S	
IO-320-A,-D, -E, AEIO-320-E	REM40E REM37BY*	RHM40E		REM38S	RHM38S	
IO-320-C, -F, LIO-320-C (Long Reach)	REB37E	RHB37E		REB36S	RHB36S	
O-340-A	REM40E REM38E	RHM40E RHM38E		REM38S	RHM38S	
O-340-B O-360-A, -C, -E, -F	REM40E REM40E	RHM40E		REM38S	RHM38S	
IO-360-B, -E, -F, -H AEIO-360-B, -C, -H, HO-360-A	REM38E REM37BY*	RHM40E RHM38E		REM38S	RHM38S	
	REM40E					
0-360-B, -D	REM37BY* REM38E	RHM40E		REM38S	RHM38S	
IO-360-A, -C, -D, -J, LIO-360-E, LO-360-A1G6D, 0-360-E1A6D,	REM37BY* REM40E	RHM38E		REM38S	RHM38S	
LO-360-E1A6D	REM38E	RHM40E		DEMOS	DUMOGO	
LO-360-C IO-360-A, IO-360-C1F,	REM37BY*	RHM38E		REM38S	RHM38S	
IO-360-F (Long Reach) IVO-360	REB37E	RHB37E		REB36S	RHB36S	
AIO-360-A, LIO-360-C, AEIO-360-A	REM38E REM37BY*	RHM38E		REM38S	RHM38S	
HIO-360-A, -D,	REM38E	RHM38E		REM38S	RHM38S	
HO-360-B, HIO-360-A, -B	REM40E REM38E	RHM40E RHM38E		REM38S	RHM38S	
TIO-360-A, -B, AEIO-360-A (Long Reach) HIO-360-E1AD, E1BD, -F1AD,	REB37E	RHB37E		REB36S	RHB36S	
LHIO-360-F1AD, IVO-360-A TO-360-A1A6D, TO-360-C1A6D	REB32E	RHB32E			RHB32S	
TO-360-E, TO-360-F1A6D,	DEDATE	RHB37E		DEDOOG	RHB36S	
LTO-360-A1A6D, LTO-360-E	REB37E REM40E	RHB32E RHM40E		REB36S	RHB32S	
VO-360-A, B	REM38E REM40E	RHM38E		REM38S	RHM38S	
O-435-A, -C,	REM38E	RHM40E		REM38S	RHM38S	
O-435-K, K1	REM40E REM38E	RHM40E RHM38E		REM38S	RHM38S	
GO-435-C, -D Series	REM40E REM38E	RHM40E RHM38E		REM38S	RHM38S	
VO-435-A, TVO-435-A (Short Reach)	REM38E	RHM38E		REM38S	RHM38S	
VO-435-A, -B (Long Reach) TVO-435-A, -B, -C, -D,-E,-F,-G (Lg Reach		RHB37E			RHB36S	
O-435-23-25	REB32E	RHB32E		REB36S	RHB32S	
	Not	A Comple	te List			

		rd Massiv	Fine Wire Electrode		
Engine Model	Shielded		Uzobioldod	Shie	elded
	5/8"-24	3/4"-20	Unshielded	5/8"-24	3/4"-20
LYCOMING	DEMANE	DUMANT			
GO-480-B, -D -F	REM40E REM38E	RHM40E RHM38E		REM38S	RHM38S
GO-480-C, -G (Short Reach)	REM38E	RHM38E		REM38S	RHM38S
	RHB37E			RHB36S	
GO-480-G1, G2 (Long Reach)	REB37E	RHB32E		REB36S	RHB32S
GSO-480-A, -B (Short Reach) GSO-480-A, -B (Long Reach)	REM38E REB37E	RHM38E RHB37E		REM38S REB36S	RHM38S RHB36S
IGSO-480-A (Short Reach)	REM38E	RHM38E		REM38E	RHM38S
IGSO-480-A (Long Reach)					
IGO-480-A	REB37E	RHB37E		DED000	RHB36S
0-480-1-3	REB32E REM40E	RHB32E RHM40E		REB36S	RHB32S
0-540-A, -D, -E, -F, -G, -H, -J	REM38E	RHM38E		REM38S	RHM38S
0-540-B	REM40E	RHM40E	M41E	REM38S	RHM38S
IO-540-A, -B, -E, -G, -K,	55:4005	too=	<u></u> Ι	==14000	
-L, -M, -P, -S, -U (Short Reach) IO-540-C, -D, -J, -N, -T, -V	REM38E REM40E	RHM38E RHM40E		REM38S	RHM38S
AEIO-540-D, -D, -J, -N, -1, -V	REM38E	RHM40E RHM38E		REM38S	RHM38S
IO-540-AA, -E, -G, -J, -K,	TILINOOL	I II IIV.OOL		112	111
-M, -P, -R, -S, -U	REB37E	RHB37E			RHB36S
O-540-L3C5D, M1B5D (Long Read	h) REB32E	RHB32E		REB36S	RHB32S
VO-540-A, -B, -C (Short Reach) O-540-9	REM38E	RHM38E		REM38S	RHM38S
VO-540 Series					
IVO-540 Series (Long Reach)	REB37E	RHB37E		REB36S	RHB36S
IGO-540-A -B (Short Reach)	REM38E	RHM38E		REM38S	RHM38S
IGO-540-A, -B (Long Reach)	REB37E	RHB37E		REB36S	RHB36S
TIO-540-A, -C, -E, -F, -G, -H, -J, -K, -N, -R, -S, -T	REB37E	RHB37E			RHB36S
-J, -K, -N, -H, -S, -1 TIVO-540-A	REB37E	RHB37E		REB36S	RHB30S
IGSO-540-B (Short Reach)	REM38E	RHM38E		REM38S	RHM38S
IGO-540-A, -B	REB37E	RHB37E			RHB36S
IGSO-540-A, -B (Long Reach)	REB32E	RHB32E		REB36S	RHB32S
REB37E	RHB37E REB32E	RHB32E		RHB36S REB36S	RHB32S
LTIO-540-F, -J, -N, -R REB37E	RHB37E	MUDOSE	 	RHB36S	TI IDOZO
TIO-541-A, -E	REB32E	RHB32E		REB36S	RHB32S
REB37E	RHB37E			RHB36S	
TIGO-541-A, -E	REB32E	RHB32E		REB36S	RHB32S
R-680 IO-720-A, -B, -C, -D (Short Reach)	REM40E REM38E	RHM40E RHM38E	-	REM38S REM38S	RHM38S RHM38S
REB37E	RHB37E	TH IIVIOUL		RHB36S	TI IIVIOUG
IO-720-A, -B, -C, -D (Long Reach)	REB32E	RHB32E		REB36S	RHB32S
PRATT & WHITNEY	REM37BY*				
R-985 (Wasp Jr.) R-1340 (Wasp)	REM40E	RHM40E	M41E	REM38S	RHM38S
R-1830 (Twin Wasp C)	REB37E	RHB37E			RHB36S
+For Severe Service	REB32E+	RHB32E+		REB36S	RHB32S+
R-2000 (Twin Wasp D) REB37E	REB37E RHB37E	RHB37E		REB36S RHB36S	RHB36S
R-2800 (Double Wasp)	REB32E	RHB32E		REB36S	RHB32S
++Rear position front row only		RHB29E++			
R-4360 (Wasp Major)	REB37E	RHB37E		REB36S	RHB36S
FRANKLIN ENGINE CO.	Γ '		Γ	<u> </u>	
2A4 Series	REJ38				
2A-120-A, B	DE IOO	RHB32E			RHB36S
4A4 Series	REJ38 REJ38	-		-	
4AC Series 4A-235-B	NEUJO	RHB32E			RHB36S
Sport 4, 4A, 4A1, 4B, 4R		RHB32E			RHB36S
6AC, 6AL, 6AG, 6A4, 6V4 Series	REJ38				
6A4-200, 6V4-200	REL37B			—	
6V6-245 6A8-215	REL37B REJ38			—	
6A-335-A. 6V335-AB	REL37B	—	 		
6A-335-B, 6AS-335-A		RHB32E			RHB36S
6V335-A1A, A1B	REB37E	RHB37E		REB36S	RHB36S
REB37E	RHB37E	BUDDOE	Γ	DEB000	- DUDOCO
6VS-335-A, -B	REB32E	RHB32E RHB32E		REB36S	RHB36S RHB36S
6A-350-C1, -C2, -D, -D1 6V-350-A, -B		RHB32E		—	RHB36S
· ·		THIDOLL	 	 	1111000
GROB	'			DENIGO	
2500 D1/E1				REN30S	
JACOBS AIRCRAFT ENGINE CO.					-:
L-4, L-5 & L-6 Series R-755	REM40E REM38E	RHM40E		REM38S	RHM38S
R-755S, R-755SM	HEM38E				

KENROYCE-REARWIN All models *Use REM37BY when encountering lead fouling.

RHM40E

REM40E

HOW TO INSTALL SPARK PLUGS
Clean threaded spark plug holes in cylinder heads. Add new gasket and thread Clean threaded spark plug holes in cylinder heads. Add new gasket and thread plug into cylinder by hand until seated against gasket. Spark plug threads may be coated very sparingly with anti-seize compound - start application at least one full thread away from the electrodes, otherwise the compound may run off and short out the plug. If plug will not turn all the way by hand, clean out threaded hole with a 14 or 18mm thread cleaning tool. Place a 7/8" deep socket over the plug hex and tighten carefully with a torque wrench.

Plug/Engine Type	Foot Lbs.	Inch Lbs.
All 14mm spark plugs	19-22	220-260
18mm spark plugs:		
Avco Lycoming	30-35	360-420
Teledyne Continental	25-30	300-360
Franklin Engine Co	25-30	300-360
Pratt & Whitney Aircraft	25-30	300-360
Wright Aeronautical	35-40	420-480

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266

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AVIATION SPARK PLUGS



AUTOLITE SPARK PLUGS

OEMs and overhaul facilities around the world are choosing Unison's Autolite Aviation Spark Plugs for superior heat transfer and leakage protection, advanced reliability, long life, and cost-effectiveness. Minimized plug length allows for greater clearance between the plug and aircraft cowling. Completely FAA-PMA approved, these plugs are trusted for use in some of aviation's most demanding applications, including the Extra 300 aircraft flown by the Northern Lights Aerobatic Team and the Exxon Flyin' Tiger climb machine.

Unison Part No.	Mounting Thrd. Size	Reach	Shielding Thread	Equiv. ChampionP/N	Price Each
UREM38E	18mm	1/2"	5/8"-24	REM38E	\$15.95
URHM38E	18mm	1/2"	3/4"-20	RHM38E	\$15.95
UREM40E	18mm	1/2"	5/8"-24	REM40E	\$15.95
URHM40E	18mm	1/2"	3/4"-20	RHM40E	\$15.95
URHB32E	18mm	13/16"	3/4"-20	RHB32E	\$13.40
UREB37E	18mm	13/16"	5/8"-24	REB37E	\$19.85
URHB37E	18mm	13/16"	3/4"-20	RHB37E	\$15.95
UREM37BY	18mm	1/2"	5/8"-24	REM37BY	\$15.95

AUTOLITE XL FINE WIRE SPARK PLUGS

Unison's Autolite® Fine Wire Aviation Spark Plugs have longer life and more premium design features: • Resistant to lead attack • Improved scavenging • Pedestal mount for the welded side wire electrode • Projected gap design for improved combustion • Iridium side wire electrode tip · Proprietary glass seal and integral resistor · High temp. black paint for additional corrosion protection

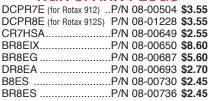
Unison Part No.	Mounting Thrd. Size	Reach	Shielding Thread	Equiv. Champion P/N	Price Each
URHB36S	18mm	13/16"	3/4"-20	RHB36S	\$45.90
URHB32S	18mm	13/16"	3/4"-20	RHB32S	\$43.40
URHM38S	18mm	1/2"	3/4"-20	RHM38S	\$42.40
UREB36S	18mm	13/16"	5/18"-18	REB36S	\$44.95
UREM38S	18mm	1/2"	5/18"-18	REM38S	\$44.95

DCPR7F

NGK SPARK PLUGS

BR8EIX







Apply sparingly to second and third threads. Do not contact electrodes as it could short out the plug. Do not apply to shielding barrel threads. Unbreakable 4oz. bottle with appli-

P/N 2612**\$5.25**

COPPER SPARK PLUG GASKETS Made of solid copper to current aircraft standards. Available in 14 MM and 18 MM sizes.

AN4027-2,	14MM	P/N M673	3	\$0.59	ea
AN4027-1,	18MM	P/N 07-00	0877	\$0.20	ea

FOLDED STEEL SPARK PLUG GASKETS

The new type folded steel sparkplug gaskets provide better sparkplug retention with no adverse effect on heat transfer. Endorsed by FAA. These gaskets are **not** to be reused.

18mm Gaskets P/N M677......\$0.77 ea

AN4062-1 DEHYDRATOR PLUGS 18MM



These plugs are used to prevent rust and corrosion in engines while in storage. Contain silica gel which turns from blue to pink when moisture is absorbed. Reusable & refillable. The pink

silica gel may be reactivated (after removing from reservoir) by heating for 16 hours at 250°F. AN4062-1 (18MM)......\$3.75 ea SILICA GEL. Indicating type, for refilling plugs.

1/4 Lb. BagP/N 07-00731\$3.70

1 Lb. CanP/N 07-03400\$14.80



CHAMPION SPARK PLUG TYPE DESIGNATION SYSTEM

All Champion Aviation Spark Plugs are identified by type designations selected by virtue of the plug design as applied to the following Spark Plug Number and Symbol Chart. The symbol is composed of a rating position number together with prefix & suffix numbers to indicate major plug design characteristics.

A TYPICAL SPARK PLUG NUMBER WITH SYMBOL EXPLANATION

R	Н	В	37	E
†	1	†	†	†
1	2	3	4	(5)
R-	- Push	-wire-	-90° to C	enter

RESISTOR
None — No Resistor

R — Mil-Spec. Resistor - Erosion protection

2 BARREL STYLE

E - Shielded 5/8"-24 Thread

None — Unshielded E — Shi H — Shielded 3/4"-20 Thread (All Weather Plug)

3. MOUNTING THREAD—REACH—HEX SIZE
B—18mm 13/16*/2.06cm 7/8*/2.22cm
J—14mm 3/8**/0.95cm 13/16/2.06cm
U—18mm 1-1/8*/2.85cm 13/16/2.06cm

M — 18mm 1/2"/1.27cm 7/8"/2.22cm 1/2"/1.27cm

4. HEAT RATING POSITION

Low number-cold ELECTRODE DESIGN

High number-hot

None-Conventional single P—Fine wire (Platinum)

 $\begin{array}{ll} E \ -\ \text{Two prong massive} & N \ -\ \text{Four prong massive} \\ W \ -\ \text{Fine wire (Iridium)} & B \ -\ 2\ \text{prong massive}, \ \text{Tangent to Center} \end{array}$

CHAMPION SPARK PLUGS

3								
SHIELDED - MASSIVE ELECTRODES								
5/8-24* Price 3/4-20* Price								
REJ38 (14MM)	\$35.95	RHM38E	\$19.95					
REL37B (14MM)	\$32.95	RHM40E	\$19.95					
REB37E	\$19.95	RHU27E	\$47.80					
REM37BY	\$19.95	RHB29E	\$18.75					
REM38E	\$19.95	RHB32E	\$19.95					
REM40E	\$19.95							
REB32E	\$19.95							
SHIELDED - IRIDIUM ELECTRODES**								
SHI	ELDED – IRIDIU	M ELECTRODES**						
5/8-24*	ELDED – IRIDIU Price	<i>M ELECTRODES**</i> 3/4-20*	Price					
			Price \$65.75					
5/8-24*	Price	3/4-20*	1 1100					
5/8-24* REM38S	Price \$65.75	3/4-20 * RHB32S	\$65.75					
5/8-24* REM38S	Price \$65.75	3/4-20* RHB32S RHB36S RHM38S	\$65.75 \$65.75					
5/8-24* REM38S	Price \$65.75 \$64.25	3/4-20* RHB32S RHB36S RHM38S	\$65.75 \$65.75					

- Shielded barrel thread size. Check barrel size 5/8x24 or 3/4x20 threads before ordering and select proper plug number, See page 236 for Sparkplug Application Table.
- spainping application ratio.

 **The "Iridium S" sparkplugs replace the Platinum and "W" Iridium types. Increased bore diameter improves scavenging action. Greater clearance volume can accept more combustion deposits. Single Iridium electrode offers greater resistance to lead attack. Easy to clean Easy to gap

NOTE: Spark plugs are shipped in factory sealed plastic cases. Opened spark plug cases make the spark plugs non-returnable. Please do not open any spark plug until you are sure you have received the correct spark plugs for your application.

SURPLUS SPARK PLUG BARGAINS



New surplus 18MM longreach, shielded, 3/4-20 barrel. FAA approved for Continental IO-470, GIO-470, TSIO-470, IO-520 & GTSIO-520. Not for 0-

470, which uses short reach plugs.

P/N 08-03699\$9.35 ea

See Tool Section in Back of Catalog For Full Line of **UNISON and Champion Spark Plug Tools**

AIRCRAFT SPRUCE WEST CORONA, CA · (877) 4-SPRUCE

267

Prices Subject to Change Without Notice

LIGHT SPEED ENGINEERING PLASMA IGNITION SYSTEM

Light Speed Engineering (LSE) is a pioneer in the design and production of ignition systems for experimental aircraft. 16 years of research and development have been invested in producing the PLASMA CDI (Capacitive Discharge Ignition) system product line. LSE's Plasma CD systems are the ideal replacement for yesterday's magneto technology. You can replace one mag with a Plasma CDI or, for maximum performance, replace both magnetos with these state of the art systems.

Features: · No Moving Parts · Hotter Spark · Reduced Maintenance Downtime & Costs · Instant Start · Designed Specifically For Aircraft · Easy To Install · Saves Fuel

Standard Plasma CDI kits include: direct crank sensor assembly, high tension leads, harness, spark plugs, spark plug adapters, and ignition coils with mounting bracket. 1 or 2 systems can be used.

PLASMA II CDI



The Plasma II is Light Speed Engineering's basic electronic ignition system for aircraft. It is a lightweight, high-energy capacitor discharge system containing all of the essential Plasma CDI features. Its smaller size and lighter weight sets it apart from any other ignition source.

Like all LSE ignition systems it features auto-

matic ignition advance based on engine load and RPM, auto retard for starting and a standard pulse tachometer output. The Plasma II was designed to provide a high tech ignition source at the cost of

Plasma II - 6 cylinder systems (Lyc.)P/N 08-00347\$910.00 Plasma II Plus - 6 cylinder sys. (Lyc.)P/N 08-00348\$1,115.00 Plasma II Plus - 4 cyl. sys. (Cont./Franklin) P/N 08-00820 \$1,195.00 Plasma II Plus - 6 cyl. sys. (Cont./Franklin) P/N 08-00821\$1,240.00

PLASMA III CDI



The Plasma III is Light Speed Engineering's high performance continuous spark capacitor ignition system. This system has a long duration spark, which improves horsepower and smoothness, especially with poor mix-ture distribution and extra-lean engine operation. Racers choice! This system has the following additional capabilities:

· Key start option Allows the use of aircraft key switch · Timing Advance Output · Manifold Pressure Output · RPM · (+)5V Power for the optional LCD Display Cockpit adjustable timing advance Interconnect for Dual Plasma CDI provides automatic timing optimization if only one system is functioning.

Plasma III -Direct Crank Sensor (4 cyl.) ..P/N 08-00675 ...\$1,245.00 Plasma III -Hall Effect Module (4 cyl.)......P/N 08-00676 ...\$1,365.00 Plasma III -Direct Crank Sensor (6 cyl.) .. P/N 08-00677 .. \$1,365.00 Plasma III - Continental/Franklin (6 cyl) ..P/N 08-00822 ..\$1,495.00 Plasma III - Continental/Franklin (6 cyl) ...P/N 08-00823 ...\$1,495.00

STARTER DRIVES



Designed to fit prestolite starters. Ship wt: all units, 2 Lbs.

• EBB75A - MZ series 4205-4207, 4217- 4219. MHB series 4001-4007 & 4010-4013......P/N 07-06515.......\$65.35

• EBB124A- MHJ series-All, MMU series-All, M24204, MHB4015

P/N 07-06510\$60.50

• EBB131A- MZ series 4221 to 4223, MHB 4016 to 4019

P/N 07-06511\$62.50

S.5 SPARK PLUG ADAPTER FOR 14mm SPARK PLUGS - Recommended by Klaus Savier of LSE



The high performance, electronic ignition, has demonstrated it's reliability, easy starts, greater power at altitude, and leaner, more efficient combustion. Yet your expensive aircraft Spark Plugs,

can prevent the pilot from taking full advantage or this electronic powerhouse. The S.5 is a precision CNC adapter, that installs easily in aircraft engines, that use 18mm "short reach" spark plugs, transforming the 18mm threaded hole down to 14mm.

The Spark Plug Adapter allows you to use:

- High performance 14mm automotive/ motorcycle spark plugs, that offer an almost unlimited variety of heat ranges, & electrode styles, designed. specifically to take advantage of electronic ignitions.
- Shorter plugs with 90° silicon boots, give greater clearance for sleeker cowls and less drag, meaning higher speed, using lesspower.
- Precious and semi precious metal racing spark plugs (the ultimate in reliability and long life) for less than you'd pay for ordinary aircraft plugs. More speed, power, efficiency, as well as a cost savings each time you change spark plugs.
- New & improved corrosion resistant design substantially extends the operational life of the S.5 Spark Plug Adapter.

Set of 4P/N 08-06753.....\$57.75



CERAMIC CIGARETTES

Used on spark plug ends or ignition leads.



WIRE TERMINAL CLIP

For 7 MM unshielded harnesses.

P/N 07-03500.....**\$0.57**

HIGH TENSION UNSHIELDED IGNITION CABLE Unshielded 7MM ignition cable consists of tinned copper conductor, rubber insulation, rein-

forced glass braid and Hypalon jacket that resists sun, weather, heat. chemicals and oxidation by ozone. Temperature range -65° to 250°F. Conforms to MIL-C-3702, Type I, Grade C, Class I.

P/N 07-03700\$0.61 Ft.



ENGINE BAFFLE IGNITION WIRE SEALS

P/N 526, 375, 376 ... P/N M2375

Seal Type	Seals for 5MM Wire P/N	Each
One-Wire	526	\$3.95
Two-Wire	375	\$3.95
Three-Wire	376	\$4.00

BUZZ AERO ROCKER COVERS



The Buzz Aero Model AC2003 cover is made to fit Lycoming straight valve cylinders. Available in red, white, blue or black anodizing.

Specs: Wt: 9oz; Machined from billet aluminum; Nickel chrome plated stainless steel socket head cap

screws supplied with kit; Set of gaskets supplied with each kit. AC2003 Applications: Lyc. 0-235, 0-290, 0, I0, LI0-320, 0-340, 0-360-A, B, C, D; I0-360-B; H0-360-A, B; HI0-360-B, V0, IV0-360; 0-540-A, B, E, F, G, I0-540-C, D, J, N, R.

AC2003 4 Cyl. KitP/N 08-00806-\$417.95 AC2003 6 Cyl. KitP/N 08-00807-\$419.95

Complete the Part Number with the color by adding: -1 (Red), -2 (White), -3 (Blue), -4 (Black) to basic P/N above.

Also Available by Special Order: AC2004 for Engines: l0-360-A, C, D; Al0-360-A, B; H0-360-A, C, D, $\,$ TI0-360-A; LI0-360-C1E6; V0, G0-435; G0-480; I0, V0, TVI0-540; I0-720, TV0-435. Call for Pricing!

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268

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ZEFTRONICS VOLTAGE REGULATORS



As a factory authorized Zeftronics distributor, Aircraft Spruce can assure you the fastest delivery and best prices on all of your Zeftronics engine accessory requirements. We carry the complete Zeftronics product line. If you do not see the product you need listed, please call us for price and availability. We have complete information on file cross referencing Zeftronics part numbers to all OEM part numbers. If you are not sure what part number you need for your aircraft, please call us for immediate assistance.

VOLTAGE REGULATORS, ALTERNATOR/GENERATOR CONTROLLERS, ALT. SYS. MONITORS, PARALLEL RELAYS, OVER-VOLTAGE RELAYS, TEMP. CONTROLLERS, TIMERS, CURRENT & VOLTAGE SENSORS

Spruce		Zeftronics	Part Numbers Reference	Sys.	Aircraft Eligibility
P/N	Price	P/N	Aircraft & Other Manufacturers	Voltage	
07-00628	\$124.95	R15V00A	Cessna: C611001-0101, -0102, -0201.	VR: 14V	CESSNA: 150,A,B,C,D,E,F,G,H,J,K,L,M; A150,K,L,M; FA150,K,L,M.
07-00622	\$97.95	R15100A	Beech: 33-380010		172,B,D,E,F,G,H,I,K,L,M,N,P,Q; F172,D,E,F,G,H,I,K,L,M,N;FR172E, R172E, P172, R172K.
			Electrodelta: VR600		177, A,B,RG,F172RG. 180,F,G,H,J,K. 185,C,D,E; A185E,F. 182,E,G,H,J,K,L,M,N,P,Q;
07-00628	\$124.95	R15V00A	FORD: D4FF-10316-BA,D4FF-10316-CA R15V00 = R15100 with OV Protection	VR: 14V	F182P,Q; T182 188,A188,T188. 205A. 206;U206,A,B,C,D,E,F,G; P206,A,B,C,D,E; T206; TP206A,B,C,D,E; TU206,A,B,C,D,E,F,G. 207,A. T207A, 210,B,C,D,E,F,G,H,J,K,L;
07-00628	\$124.95	R15V00A	R15V00 = R15100 Willi OV Protection	OV: 16V	17206A,B,C,D,E, 10206,A,B,C,D,E,F,G. 207,A. 1207A, 210,B,C,D,E,F,G,R,J,K,E, 210,F,G,H,J,K. <u>Beech:</u> 35A33, 35B33,35C33,E33,E33B,F33,H35,K35,M35,N35,P35.
07-00020	ψ124.93	IIISVOOA	R15100 Rev A is self protected	00.100	Gulfstream (Grumman): AA-5,A,B.
07-00637	\$62.95	V11100	Cessna: C593001-0101	OV: 16V	Applicable For All Cessna Aircraft Models Listed For R151.00
07.00004	# 100.05	DAEAON	Other No: 0800002. OS60. 0337. EM235	VD: 44V	01-1-1- 70044 7504 70000 71/04B 000B0 1-1-1-14 4 4 B 0
07-00624	\$198.95	R1510N	Prestolite: VSF7201,2,3,4 VSF7202S,3A,3S. Electrodelta: VSF7203A	VR: 14V	Citabria: 7GCAA,7ECA,7GCBC,7KCAB,8GCBC. Lake: LA-4,A,P. Grumman: AA-1,A. Commander: 112,B,TC,TCA. Varga: 2150A Beech: 19A,B,19,M19A,23,23A,A23A,A23-19,
			TCM: 649684-1		A23-24,B23,C23,24,24R,B24R,C24R. Piper: 23,-160,235,250;PA24-260,PA30,39;
			Piper: 550-383.		Cessna: 175,185,188. Maule: M-5-180C,235C; M-6-180,235;M-7235,MX-7-180,235.
07-00630	\$278.95	R15V0N	R15VON = R1510N + OV Relay + L/OV Pin	14V/16V	Schweizer: 269C. Bellanca:14-19,-19-2,19-3,19-3A; 17-30,31,31TC,; 17-30A,31A,31ATC.
07-00638	\$98.95	V1510A	Piper: 450-397, 484-183, 550-380, 450-393	OV: 16V	Citabria: 7GCAA,7ECA,7GCBC,7KCAB,8GCBC. Lake: LA-4,A,P. Grumman: AA-1,A.
			Beech: 138-1		Commander:112,B,TC,TCA. Varga: 2150A. Beech: 19A,B19,M19A,23,23A,A23A,A23-19
			Wico: X-17621.		A23-24,B23,A24,24R,B24R,C24R,S35,V35,V35TC. Piper: 23,-160,235,250;PA24-260,400;
			Lamar: B00289-2, B00339-1.		PA30,39. Cessna : 175,185,188. Maule :M-5-180C,235C; M-6-180,235;M-7-235'MX-7-180,235.
			Electrodelta: OS75-14.		Bellanca: 14-19,19-2,19-3,19-3A; 17-30,31,31TC; 17-30A,31A,31ATC. Schweizer : 269C.
			Delco-Remy: 1115831.		Piper: PA28-140,150,151,160,161,180,235,236,201T. PA28R-180,200,201T.
			Prestolite: FOC-4002B.		PA28S-160,180. PA28RT-201,201T. PA32-260,300. PA32S-300. PA32RT-300,300T. PA32R-301,301T. PA32-301,310T. PA34-200. PA38-112.
07-00623	\$97.95	R1510L	Piper: 450-392, 484-121,66804-03,756-055		Bellanca: 7GCAA.7ECA.7GCBC.7KCAB.8KCAB. Commander: 112.B.TC.TCA. Beech: 19.
0. 00020	φ07.00	11.0.02	Beech: 169-380063		19A,B19,M19A,23,23A,A23A,A23-19, A23-24,B23,C23,A24,A24R,C24R,S35,V35,V35TC.
			Other mfr P/N: X16300B, X17990. 9000590		Piper : PA24-260,400. PA28-140,150,151,160,161,180,235,236,201T. PA28R-180,200,201,201T.
			B00267-1,2 B00331-1,2. 1816110. VR200, A.		PA285-160, 180. PA28RT-201,201T. PA32-260,300. PA32S-300, PA32RT-300,300T.
			FVR4004,4224; RBM: 87-87102-21		PA32R-301,301T. PA32-301,310T. PA38-112. Grumman: AA-1B, AA-1C
07-00629	\$141.95	R15V0L	Piper: 557-337.	VR: 14V	Bellanca : 8GCB,8KCAB. Maule : M-5-18OC,235C; M-6-18OC,235; M-7-235;MT-7-235:MT-8-235;
			Lamar: B00371-1, -8, -14	OV: 16V	MX-7-160, 180, 235; MXT-7-160,180. Piper: PA24-260,400; PA28-140,150,151,160,161,
			Electrodelta: VR371		180,235, 236, 201T. PA28R-180,200,201,201T; PA28S-160,180. PA28RT-201,201T. PA32-260,300. PA32S-300. PA32RT-300,300T. PA32R-301,301T. PA32-301,310T. PA38-112.
07-00631	\$86.95	R25101A	Cessna: C611004-0101,C611002-0102,-0105	VR: 27.7	Cessna: 152,A152,F152,FA152. 172,H,N;F172;FR172K;R172,K; 177,A,B,RG; 180,K; 182,P,Q,
07-00631	\$86.95	R25101A	Ford: C8FF/C6FF-10316-A. TCM:636147	VR: 27.7	F182,P,Q; R182, FR182; T182,TR 182. 185,A185F. 188, A188, A,B; T188,C; 206, P206,TU206A,
	,		Electrodelta: VR500-0101.		U206, G; 207,A; T207,A; 210,K,L,M,N; P210N; P210R; T210,K,L,M,N, 337,A,B,C,D,E,F,G,H;
					F337,A,B,C,D,E,F,G,H; P337H: T337B; T337B,C,D,E,F,G,H,H-SP: FT337E,F,GP,HP. M337B.
07-00632	\$86.95	R25102A	Cessna: C611004-0102	VR: 28.8	Applicable for CESSNA models listed for R25101 except 337A (USAF 02B), M337B (USAF 02A).
07-00568	\$184.95	R25S01	C611004-0101 & OV Sensor	VR: 27.7	Cessna: 210
07-00569	\$184.95	R25S02	C611004-0102 & OV Sensor	OV: 32V	Cessna: 210
07-00615	\$151.95	EQ1500	Delco-Remy 1116887; PAC: 450-386	EQ: 12V	Piper: PA23-150, -160, -238, 250;PA30; PA39
07-00616	\$134.95	EQ2500	DELCO-REMY 1116902	EQ: 24V	Cessna: 310,A,B,C,D,E,F,G,H,I,J-I,K; E310H,I,J. 320,A,B,C,D,E,320-1.
27 22225	A.07.05	D05400	0 0011005 0100 0100 0101	\/D 00\/	Beech: 95,B95,B95A,D95A,E95,E95-55,-A55,-B55A;58,A. Twin Commander:500,-A,B.
07-00635	\$127.95	R25400	Cessna: C611005-0103, 0103, -0101, -0102 Electrodelta: VR515F.G. Pft: DGR3	VR: 28V OV: 2V	Cessna: 152,A152,F152,FA152; 172,N,P,RG;FR172,K;R172,K; F172N,P; 180,K; 182,Q,R; R182, FR182,TR182,F182R,T182R; 185,A185F; 206, U206; 207, T207; 210,N,R; P210N,R;T210N,R.
07-00639	\$83.95	V25101	Cessna: C593003-0101, -0102	OV: 32V	Cessna: 152,A152,F152,FA152: 172: 172N, F172, R172K; R172K; 177,A,B,RG; 180,K;
37 00003	ψυυ.συ	V2J101	Other P/N: 0S100-0101. EM233	UV. 02 V	182,Q;F182Q; R182; FR182; 185,A185F; 188,A188B,T188C; 206,U206; 207,T207;
					210,K,L,M,N; P210,N; T210,K,L,M,N.
07-00633	\$198.95	R2510N	Prestolite:VSF7403A,4,3S. PAC: 550-381	VR: 28V	Piper: PA31,31-300,-31-310,-31-325,-31-350,PA36-285,-300,-375,PA60-600,601,601P,602P,700P
07-00636	\$299.95	R25V0N	R2510N with OV Protection & LV/OV warning	28V/32V	Cessna: 310,310P,310Q, 320. 401A,401B,402A, 402B,414,421,421A,421B. Schweitzer: 269C.
07-00640	\$111.95	V2510A	PAC: 484182. Others: FOC4003A. OS75-28	32V	Twin Commander: 500S. Beech: E55, 58, F33A, F33C, A36, A36TC.
07-00634	\$183.95	R251DR	Delco-Remy, Beech, Piper: 9000591	27.7V	Cessna: 310N, 310L,320D,320E; Beech: B95A,D95A,95-B55,-C55; Piper: PA-31,-300,-310,-325
07-00625	\$184.95	R15300	Mooney: 800270-505, 880016-503	VR: 14V	Mooney: M20C, M20D, M20E, M20F, M20G, M20J, M20K, Homebuilts.
07-00626	\$228.95	R1530B	Electrodelta: VR415F. Pft: DGR1-1 Mooney: 880016-501	OV: 16V VR: 14V	Mooney: M20C.M20D,M20E,M20F
07-00020	ψΔΔ0.33	פטטטורו	Other P/N: 20082. VR414	OV: 16V	WIOOTICY. IVIZOO.IVIZOD,IVIZOE,IVIZOF
			Beech: 35-380093-1,2,3.	00.100	Beech; H35, J35, K35, M35, N35, P35, S35, V35, V35TC, V35A, V35A-TC, V35B, 36, A36
			Other P/N: 20053, 20065, 20137, 20437		Beech: H35, J35, K35, M35, N35, P35, S35, V35. V35TC, V35A, V35A-TC, V35B, 36, A36 Beech: 33, A33, B33, C33, E33, C33A, E33A, E33C, F33A, F33C.
			B00403-1, EM2073-1,2		

PART NUMBERS WITH PREFIX: R=VOLTAGE REGULATOR EQ=PARELELLING RELAY V=OVERVOLTAGE RELAY G=GENERATOR CONTROLLER

GENERATOR CONTROL UNITS



PART NO.	PRICE	SYSTEM VOLTAGE	PART NO. REFERENCE	NOTES
07-00617	\$134.95	14V/20A	1118736,1118904,111926,VR300-14-20	Requires FAA Form 337
07-00618	\$134.95	14V/35A	1118704,1118892,1119220,VR300-14-35	Requires FAA Form 337
07-00619	\$134.95	14V/50A	1118713,1118884,1119224,VR300-14-50	Requires FAA Form 337
07-00620	\$203.75	28V/25A	1118799,1111218C,1118976B,C, VR300-28-25	Requires FAA Form 337

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269

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PLANE POWER LIGHTWEIGHT ALTERNATORS



PLANE POWER LIGHTWEIGHT ALTERNATORS

Finally, you have an alternative to high-priced, marginally-performing, rebuilt used replacement aircraft alternators. Plane-Power alternators are the product of years of research, development and intensive testing. Each component has been engineered, developed, tested and re-tested exclusively for use in general aviation aircraft. As a result of these efforts, Plane Power alternators offer significant improvements over legacy aircraft alternator offerings including:

- Generate substantially higher power at lower engine RPMs
- Generate significantly less heat while producing rated power
- Generate rated power at typical aircraft cruise RPM
- Vastly improved balancing drastically reduces bracket failure
- · Greater reliability for significantly increased service life
- · Weigh up to four pounds less

Plane-Power alternators are FAA PMA certified to replace the vast majority of popular general aviation alternators. Plane-Power also manufactures an alternator kit for experimental aircraft applications that comes complete with required brackets, spacers, internal cooling, voltage regulation (choice of internal or external), and over-voltage protection. Plane-Power alternators are warrantied for 2-years against component failures.

PMA CERTIFIED NEW REPLACEMENT ALTERNATORS

Output	Voltage	Model	Replaces:	Part No.	Price
70	12	AL12-F60	Ford 12V, 60 amp alternators on Lycomings engines in Cessna & Grumman aircraft	07-00998	\$389.00
70	24	AL24-F60	Ford 24V, 60 amp alternators on Lycomings engnies in Cessna aircraft	07-00999	\$399.00
70	12	AL12-C60	Chrysler 12V, 60 amp alternators on Lycomings engines in Piper aircraft	07-00997	\$410.00
70	12	AL12-50	InterAv Alternator Conversions (all) on Lycoming Engines	07-00995	\$429.00
70	12	AL12-50C	InterAv Alternator Conversions (all) on Continental Engines	07-00996	\$489.00
70	12	AL12-P70	Most Prestolite 12V, 70 amp & smaller alternators on Lycomings engines found in	07-01001	\$489.00
			many Grumman, Commander, Mooney & Piper aircraft		
70	24	AL24-P70	Most Prestolite 24V, 70 amp & smaller alternators on Lycoming engines found in	07-01002	\$499.00
			many Beechcraft, Gruman & Mooney aircraft		

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EXPERIMENTAL AIRCRAFT ALTERNATORS

Output	Voltage	Model	Replaces:	Part No.	Price
60	12	AL12-EI60/b	Ultra compact size, Internally regulated 12 volt alternator kit for use in	07-01003	\$426.95
			EXPERIMENTAL aircraft - Boss mount		
60	12	AL12-EI60/c	Ultra compact size, Internally regulated 12 volt alternator kit for use in	07-01003-1	\$424.95
			EXPERIMETNAL aircraft - Case mount		
70	12	AL12-El70/b	Internally regulated 12V alternator kit for use in EXPERIMENTAL aircraft -Boss mount	07-01004	\$454.95
70	12	AL12-EI70/c	Internally regulated 12V alternator kit for use in EXPERIMENTAL aircraft - Case mount	07-01004-1	\$452.95
70	12	AL12-EE70/b	Externally regulated 12V alternator kit for use in EXPERIMENTAL aircraft - Boss mount	07-01005	\$509.00
70	12	AL12-EE70/c	Externally regulated 12V alternator kit for use in EXPERIMENTAL aircraft - Case mount	07-01005-1	\$452.95
70	24	AL24-EE70/b	Externally regulated 24V alternator kit for use in EXPERIMENTAL aircraft - Boss mount	07-01006	\$454.95
70	24	AL24-EE70/c	Externally regulated 24V alternator kit for use in EXPERIMENTAL aircraft - Case Mount	07-01006-1	\$454.95

SEE PLANE POWER LIGHTWEIGHT ALTERNATORS ON

www.aircraftspruce.com

WEBSITE PROVIDES APPLICATION GUIDE BY AIRCRAFT & ENGINE MANUFACTURER

ALTERNATORS – REGULATORS – STARTERS

KELLY AEROSPACE ALTERNATORS

The most popular alternators in use on Cessna and Beech aircraft are of Ford manufacture. Chrysler alternators are usually found on Piper aircraft. These units are manufactured to aircraft specifications and are not available through automotive parts stores. Note: Core charge is billed on all exchange units & credited upon receipt of acceptable core.





ELECTROSYSTEMS ALTERNATORS

Mfg. Ref.	P/N	Core	Price
3656624	07-06401	80.00	\$176.95
4111810	07-06402	80.00	\$195.95
646491	07-06404	150.00	\$280.95
ALT8520	07-06404	150.00	\$280.95
ALT9522	07-06405	165.00	\$294.95
ALU8521R	07-06406	180.00	\$292.95
ALU8521RS	07-06407	160.00	\$288.95
ALV9507S	07-06409	425.00	\$653.00
ALV9510R	07-06409	425.00	\$653.00
ALX9525B	07-06410	200.00	\$299.95
ALY6421	07-06411	110.00	\$292.95
ALY8520R	07-06412	100.00	\$264.95
DOFF10300B	07-06413	100.00	\$224.95
DOFF10300E	07-06414	160.00	\$309.95
DOFF10300F	07-06415	160.00	\$278.95
DOFF10300J	07-06416	100.00	\$224.95
E3FF10300AA	07-06417	175.00	\$309.95

FORD ALTERNATORS

Airframe or Engine P/N	Drive Type	Volts	Amps	Part No.	Exchange	Core
(C) 611501-0102 (B) 33-380009	Pulley Driven & Furnished	15V	60A	07-06416	\$224.95	\$100.00
(C) 611501-0201 (C) 611501-0202 (C) 611501-0204	Gear Driven Gear not furn.	15V	60A	07-06415	\$278.95	\$160.00
(CMC) 633661 (CMC) 635723						
(C) 611503-0102 (B) 96-380037	Pulley Driven & Furnished	28V	60A	07-06413	\$224.95	\$100.00
(CMC) 634442 (CMC) 634443	Gear Driven Gear not Furn.	28V	60A	07-06418	\$322.95	\$100.00
(B) 60-389014	Gear Driven & Furnished	28V	60A	07-06419	\$248.95	\$100.00

(B) Beech Part No. (CMC) Continental Motors Part No.

**Alternator regulators for these alternators are new solid state units which replace the original blue colored Ford regulators. These are no longer available. Proper regulator for use with these alternators is Cessna Part No. C611001-0201, manufactured by Electro Delta. P/N VR600 ...Net Price \$119.95

CHRYSLER ALTERNATORS

Chrysler P/N	Piper P/N	Drive Type	Volts	Amps	Part No.	Exchange	Core
3656624	69670-00	Pulley Driven & Furnished		60A	07-06401	\$176.95	\$80.00

ELECTROSYSTEMS VOLTAGE REGULATORS

Part No.	Description	Airframe Reference	Price	Part No.	Description	Airframe Reference	Price
07-00887	28V Overvoltage Sensor	Cessna C593003-0101	\$77.25	07-00909	14V Voltage Regulator	Lamar B-00392-1	\$230.95
07-00888	28V Overvoltage Sensor	Cessna C593003-0102	\$77.25	07-00910	14V Voltage Regulator	Zeftronic R15300	\$176.95
07-00889	28V Overvoltage Sensor	Cessna C593004-0101	\$127.95	07-00893	Adapter Cable	For use w/ VR415-F ONLY	\$73.50
07-00890	14V Overvoltage Sensor	Cessna C5930001-0101	\$76.25	07-00911	14V Voltage Regulator	Christen 61235	\$154.95
07-00887	28V Overvoltage Sensor	Cessna C593003-0101	\$77.25	07-00912	27.7V Voltage Regulator	Cessna C11004-0101,	\$95.00
07-00891	14V Overvoltage Sensor	Zeftronic V1510A	\$103.95			C611002-0102, -0105	
07-00892	28V Overvoltage Sensor	Zeftronic V2510A	\$117.95	07-00913	28.8V Voltage Regulator	Cessna C611004-0102	\$95.00
07-00896	14V Voltage Regulator	Zeftronic R1510L	\$94.75	07-00914	28V Voltage Regulator	Cessna C611501-0102,	\$135.95
07-00899	14V Voltage Regulator	Delco-Remy 1118736, E,				C611005-0101	
		1118904, 1119226	\$123.95	07-00915	28V Voltage Regulator	Cessna C611005-0103,-0102	\$148.95
07-00900	14V Voltage Regulator	Delco 1118384	\$123.95	VR515G-2-28	28V Voltage Regulator	Schweitzer Aircraft Corp	\$133.95
07-00901	14V Voltage Regulator	Delco-Remy 1118704	\$123.95			269A4985	
07-00903	14V Voltage Regulator	Cessna 0413205-10	\$203.95	07-00916	28V Voltage Regulator	Cessna C611008-0101	\$120.95
07-00902	14V Voltage Regulator	Delco-Remy 1118713,		07-00884	14V Voltage Regulator	Cessna C611001-0101,	\$119.95
		1118884, 1119224C	\$123.95			-0102, -0201	
07-00904	14V Voltage Regulator	Cessna 0413205-11	\$203.95	07-00918	14V Voltage Regulator	Lamar B-00288-1	\$165.95
07-00905	28V Voltage Regulator	Delco-Remy 1118951,		07-00919	28V Alternator Control	Cessna C611007-0101	\$223.95
		1118975, 1119218C	\$207.95	07-00920	28V Voltage Regulator	Cessna 9910126-1,-2,-3	\$146.95
07-00906	28V Voltage Regulator	Delco-Remy 1119237,1119656	\$206.95	07-00921	12V Voltage Regulator	Zeftronic R1510N	\$208.95
07-00718	14V Voltage Regulator	Zeftronic R15V0L	\$139.95	07-00922	24V Voltage Regulator	Zeftronic R2510N	\$205.95
07-00908	28V Voltage Regulator	Lamar B-00382-2	\$217.95				



KELLY AEROSPACE STARTERS

IF NO CORES ARE AVAILABLE AT FACTORY, WE WILL REQUIRE YOUR CORE FOR OVERHAUL.

Prestolite P/N	Application	Volts	Part No.	Exchange	Core
	Cessna 150 uses starter motor & engine drive gear, Continental P/N 641500	12V	07-06513	\$190.95	\$100.00
MMU4001R	Cessna 152 uses direct drive starter	24V	07-06506	\$330.95	200.00

KELLY AEROSPACE STARTERS

Mfg. Ref.	P/N	Core	Price
646238-3	07-06501	125.00	\$203.95
646275-1	07-06502	175.00	\$203.95
MCL6501	07-06503	150.00	\$199.95
MHB4016R	07-06504	230.00	\$343.95
MHJ4003S	07-06505	190.00	\$233.95
MMU4001R	07-06506	200.00	\$330.95
MZ4218R	07-06509	200.00	\$316.95
MZ4222R	07-06509	200.00	\$316.95

OVERHAULED EXCHANGE UNITS AVAILABLE FOR ALMOST ALL ELECTRICAL ACCESSORIESCall for quote on unlisted requirements. We stock all accessories at competitive prices.

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271

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ELECTROSYSTEMS OVERHAULED COMPONENTS

Aircraft Spruce carries the full line of alternators, generators, and starters which are remanufactured by Electrosystems for installation in general aviation aircraft. **Fully FAA approved.**

All prices shown are exchange prices. Core charges are billed when unit is shipped. Core credit is issued upon return of acceptable like model core to Aircraft Spruce West in Corona, CA.

NOTE: If core is not in stock at factory, customer must send core to Aircraft Spruce at time of order to have the core overhauled.

CHRYSLER	RYSLER ALTERNATORS PRESTOLITE ALTERNATOR CONT.		DELCO STARTERS		PRESTOLITE STARTER CONT.						
Part No.	Volt/Am	p Price	Part No.	Volt/Amp	Price	Part No.	Volt/Amp	Price	Part No.	Volt/Amp	Price
2642995R	12V37A	\$175.00	ALY-8520R	12V60A	\$255.95	DEL1108234	24V	\$198.95	MHJ-4005R	24V	Call for Quote
2642996R	12V37A	\$175.00	ALY-8520RS	12V60A	Call for Quote	1108249R	12V	Call for Quote	MMU-4001R	24V	\$320.00
2642997R	12V60A	\$175.00				DEL1109471	12V	\$197.95	MZ-4204R	12V	Call for Quote
4111810R	12V60A	\$175.00				1109511R	12V	Call for Quote	MZ-4222R	12V	\$301.95
DELCO A	ITERNA	TORS				1109517R	24V	Call for Quote	MZ-4219R	12V	Call for Quote
1100715R		Call for Quote				1109511R	12V	Call for Quote	MZ-4208R	12V	Call for Quote
1100716R		Call for Quote				1109518R	24V	Call for Quote	MZ-4220R	12V	Call for Quote
1100717R		Call for Quote				1109511R	12V	Call for Quote	MZ-4217R	12V	Call for Quote
1100717R		Call for Quote				1109511R	12V	Call for Quote	MZ-4222R	12V	\$301.95
1100713R		Call for Quote				1109514R	12V	Call for Quote	MZ-4219R	12V	Call for Quote
1100747R		Call for Quote				1109651R	12V	Call for Quote	MZ-4220R	12V	Call for Quote
1100753R		Call for Quote	TCM A	LTERNA	TORS	DEL1109652	12V	\$207.95	MZ-4217R	12V	Call for Quote
1100792R		Call for Quote	646843R	24\/604	Call for Quote	1109656R	12V	Call for Quote	MZ-4222R	12V	\$301.95
EODD AL	TEDNAT	CODE	649304R		Call for Quote	1109657R	12V	Call for Quote	MZ-4219R	12V	Call for Quote
FORD AL						1109660R	12V	Call for Quote	MZ-4224R	12V 12V	Call for Quote
EOFF10300BAR	28V60A	\$312.50	DELCO	GENER/	ATORS	1109662R	24V	Call for Quote	MZ-4225R MZ-4226R	12V 12V	Call for Quote Call for Quote
DOFF10300FR	15V60	\$269.95	DEL1101876	12V12A	\$196.95	1109678R	12V	Call for Quote	WZ-4220H	121	Call for Quote
			DEL1101877	12V26A	\$196.95	1109689R	12V	Call for Quote			
			DEL1101878	12V13A	\$196.95	1109687R	24V	Call for Quote			
			DEL1101879	12V25A	\$196.95	1109677R	12V	Call for Quote Call for Quote	ALT	ERNAT	OB
			DEL1101880	12V26A	\$196.95	1109678R 1109519R	12V 12V			COUPL	
			DEL1101881	12V13A	\$196.95	1109519R 1109518R	12V 24V	Call for Quote	KellyAerospa		
PRESTOLITI	E ALTERI	NATORS	DEL1101882	12V26A	\$196.95	1109518R 1109678R	24 V 12 V	Call for Quote Call for Quote	overhauls th		
ALT-8520R	24V50A	\$271.95	DEL1101887	12V35A	\$196.95		Core Charg		couplings for		
ALT-8521R	24V50A	Call for Quote	DEL1101888	12V50A	\$196.95		nd Starters	-	TCM alterna		
ALT-8520R	24V50A	\$271.95	DEL1101890	12V20A	\$196.95	Deico Ait. a	nu Stanters	\$200.00	charge (ref	undable)	to prices
ALT-8520R	24V50A	\$271.95	DEL1101891	12V20A	\$196.95				shown below	1.	
ALT-8521R	24V50A	Call for Quote	DEL1101892	12V35A	\$196.95				Part No. 6466	55R	
ALT-9522R	24V50A	\$285.95	DEL1101895	12V50A	\$196.95				Applicable to e		
ALT-9522R	24V50A	\$285.95	DEL1101897	12V35A	\$196.95	*Drive not inc	luded (DEL	1971890).	IO-520,TSIO-5		
ALU-8521R	24V70A	\$283.95	DEL1101898	12V35A	\$196.95	For price se					\$617.00
ALU-8521R	24V70A	\$283.95	DEL1101899	12V20A	\$196.95	**Drive not inc			Part No. 6357		
ALU-9522R		Call for Quote	DEL1101900	12V35A	\$196.95	For price se	ee listing for	drives.	Applicable to 6 C-75, C-85,		
ALV-8511R	24V100A		DEL1101901	24V26A	\$196.95	PRESTOL	ITE STA	RTERS	C-145, E-165		
ALV-8511R	24V100A		DEL1101904	24V25A	\$177.95	MCL-6501R	12V	\$189.95	O-300, GO-3		
ALV-8512R	24V100A		DEL1101905	24V25A	\$196.95	MHB-4016R	24V	\$324.95	IO-360, TSI		
ALV-9510R	24V100A		DEL1101906	24V25A	\$196.95	MHB-4017R	24V	Call for Quote	P/I	N 07-00642	\$617.00
ALV-9510R	24V100A	\$633.00	DEL1101908	12V50A	Call for Quote	MHB-4020R	24V	Call for Quote			
ALV-9510R	24V100A	\$633.00	DEL1101909	12V50A	\$196.95	MHB-4004	24V	Call for Quote			
ALX-8521R ALX-9525B		Call for Quote Call for Quote	DEL1101910	12V20A	\$196.95	MHB-4005R	24V	Call for Quote	ALTERNAT	OR & GEI	NERATOR
ALX-9525B ALX-9524R		Call for Quote	DEL1101911	24V25A	\$196.95	MHB-4018R	24V	Call for Quote		BELTS	
ALX-9524R ALX-9524R		Call for Quote	DEL1101912	12V50A	\$196.95	MHB-4008R	24V	Call for Quote			
ALX-9524h ALX-9522R		Call for Quote	DEL1101913	12V35A	\$196.95	MHB-4014R	24V	Call for Quote		IG ALTER	
ALX-9524R		Call for Quote	DEL1101914	12V35A	\$196.95	MHB-4016R	24V	\$324.95	37A19773-3	/6	\$29.85
ALX-932411 ALX-9425BR	12V70A	\$290.95	DEL1101915	12V50A	\$196.95	MHB-4017R	24V	Call for Quote	LYCOMING	GENERAT	OR BELTS
ALY-6520R		Call for Quote	DEL1101917	12V35A	\$196.95	MHB-4020R	24V	Call for Quote	37B19774-3	74	\$31.70
ALY-6520R		Call for Quote	DEL1101918	12V35A	\$196.95	MHB-4018R	24V	Call for Quote	37B19774-3	25	\$29.10
ALY-6521R	12V60A	\$283.95	DEL1101918	12V50A	\$196.95	MHB-4014R	24V	Call for Quote	co	NTINENTA	,, l
ALY-6522R		Call for Quote	DEL1101923	24V40A	\$208.00	MHB-4016R	24V	\$324.95	539547-31.1		\$15.65
ALY-6425	12V60A	\$192.95	DEL1105052			MHB-4017R	24V	Call for Quote	000047-01.1	J	ψ13.03
ALY-6520R		Call for Quote		24V40A	Call for Quote	MHB-4018R	24V	Call for Quote			
ALY-6521R	12V60A	\$283.95	DEL1105054	24V50A	\$231.95	MHB-4020R	24V	Call for Quote	C	onvenien	, t
ALY-6522R		Call for Quote	DEL1105055	24V50A	\$231.95	MHJ-4003R	24V	Call for Quote		ne Shop	
ALY-6425	12V60A	\$192.95	DEL1105056	24V40A	\$231.95	MHJ-4003R	24V	Call for Quote			· ~
ALY-6527R	12V60A		DEL1105057	24V50A	\$231.95	MHJ-4004R	24V	Call for Quote	www.airc	<i>raftspri</i>	ice.com

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272
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ALTERNATORS

B & C LIGHTWEIGHT ALTERNATORS

((((()))

MODEL L40 ALTERNATOR
The model L40 is a belt driven 40 amp 14 volt alternator system for Lycoming engines including alternator assembly, mounting hardware, and belt, ready to install. The alternator weighs 6.1 lbs. and measures 3.9" in diameter and

5.1 lbs. and measures 3.9 in utalifeter and 5.6" long. The model L40 alternator was specifically designed to meet the rigorous demands of today's weight sensitive homebuilt designs and has undergone extensive in-flight service testing. This system incorporates the latest state-of-the-art advances in solid state electronic power management as well as incorporating a factory new, modern lightweight alternator. Applicable to Lycoming 118 H.P. through the 300 H.P. engines. L40 Boss Mount P/N 07-06815......**\$429.95**

NOTE - On Models L40 & L60 Alternators, order as follows: L40 Case Mount (Narrow Deck Bracket) P/N 07-06810.......\$518.00

L40 REQUIRES VOLTAGE REGULATOR - SEE BELOW

Model L40 and L60 alternators require external regulators - use: P/N 07-06742 (LR3) for 14V, P/N 07-06786 (LŠ1) for 28V LS1 converts alternator to 28V



MODEL L60 ALTERNATOR

Model L60 is a belt-driven, 14 or 28 volt alternator system for wide deck (boss mount) 118HP through 300HP Lycoming engines. The kit includes a NEW alternator, steel mounting bracket, belt tensioning arm, belt and mounting hardware, ready to install.

Alternator with pulley installed weighs 8.5

Lbs. With 60 amps of output, the L6. Will provide sufficient power to operate electric heaters in the Eze type airplanes. **Warning!** It is unwise to use this (or any other high output alternator) unless true over voltage protection is also installed. The LR-3 linear regulator and alternator control system is recommended.

L60 Case Mount	P/N 07-06820 \$688.00	
L60 Boss Mount	P/N 07-06785 \$599.95	
I 60 REQUIRES VOLTAGE	REGULATOR - SEE ABOVE	



More than a voltage regulator, LR3C is an alternator control system. Features (1) solidstate over-voltage protection, (2) a low-voltage warning system, (3) output short circuit protection and (4) a linear voltage regulator, all housed in a single unit. This combination

of features is normally available only as separately purchased and installed items. Originally designed for the Voyager, around-the-world aircraft, the LR3C represents the best that technology can offer in a single, cost effective package.

Virtually all regulators offered in automotive and aircraft markets are the "switching" variety. They control an alternator with short pulses of full battery voltage. These pulses occur several hundred times per second. The rapid switching action does generate some electrical noise. Output from an LR3C is a smoothly adjusted voltage generating no noise whatsoever. A switching regulator may perform well in your airplane, especially if the ship is all metal and does not carry LORAN. However, no alternator system should be operated without true over-voltage protection. In addition, a means for timely notification of alternator failure is recommended. LR3C provides all these features in a proven product with minimal installation and wiring requirements. LR3Cs track record began with a 216-hour flight around the world. The record goes on to list hundreds of units in service, thousands of flight hours and over 6 years of production. The LR3C is all solid-state and compatible with 14 or 28V, aircraft or automotive alternators. Will not work if alternator has a built-in regulator. Size: 5.7"l x 3.1"w x 2.7"h; weight: 10oz. Supplied with low-voltage

warning lamp assembly & complete installation instructions. Specify 14 or 28V. Alternators with built-in voltage regulators must be modified before installation with the LR3C.

The optional LR3C temperature sensor adjusts bus voltage by sensing battery temperature. This feature is especially useful in areas of extreme climate temperature changes.

LR3C (14V)	P/N 07-06742	\$228.00
LR3C (28V)		
LB3C Battery Temp Sensor		

MODEL SD-8 ALTERNATOR & REGULATOR

The model SD-8 is a spline-driven, 14V alternator system for aircraft with an open vacuum pump drive pad. Features an ultra-reliable, brushless construction. A permanent magnet assembly supported on sealed ball bearings is spun around a fixed coil. With 8 amps of output, the model SD-8 is adequate for many VFR-day applications. The model SD-8 will power a solid state nav/com and transponder in addition to charging a battery for engine starting. In production for over 10 years, hundreds of model SD-8 systems are flying. The model SD-8 is used by top aerobatic pilots around the world. Also used as backup power source on more sophisticated homebuilts. Wt.:3.7lbs. Pricing includes

adjustable, solid state voltage regulator. P/N 07-06770 Over Voltage Kit 28V (required)P/N 07-00708\$65.00

MODEL SD-20 ALTERNATOR



The SD-20 is a high-performance spline-driven alternator that mounts on a standard vacuum pump accessory pad. May be used either as a primary or a stand-by alternator for a rated output 20 amps @ 2500 alternator RPM. Constructed of all NEW materials (with absolutely NO "remanufactured" content), the SD-20 is designed for durable service, with heavy-duty sealed ball-bearings, 2 cooling fans, a dynamically balanced rotor, and a special "shear section"

designed into the drive coupling. The SD-20 is available for both 14 and 28 volt applications. and is externally-regulated. It may be appropriately matched with our LR3C, LS-1A, or SB1B Controllers (depending) on your

MODEL 200G ALTERNATOR

Gear-driven, 14V alternator system for aircraft powered with Continental C85-12 engines. Features ultra-reli-

able, brushless construction. Permanent magnet assembly supported on sealed ball bearings is spun around a fixed coil. Use in the prototype Vari-Eze. Has also seen service on many Cassuts, Vari-Ezes, Q-200s. etc. In production for over 10 years, hundreds of 200G systems are in service. With 12 amps of output the 200G will support a modest VFR-night system load. Wt 4.25 Lbs. Pricing includes an adjustable solid state voltage regulator. You supply a Continental generator drive goar accombly. Goar much be shipped by the Continental generator drive gear assembly. Gear must be shipped by the

factory to Aircraft Spruce for installation. P/N 07-06575..... \$409.00 New Drive gearP/N 07-06500 \$593.65 Over Voltage Kit 14V (required)P/N 08-00658 .\$68.95 Over Voltage Kit 28V (required)P/N 07-00708\$65.00

MODEL BC433-H ALTERNATOR

A 30amp gear-drive alternator for the Continental Engines (C-75 through O-300). After many customer requests for a gear-drive alternator with higher output, B&C Specialty Products introduces the latest product, model BC433-H. Wt: 4lbs.; size: 4"dia. X 3.7" installed length. Features a billet aluminum mounting flange and creates 30 amps at

cruise RPM. Ships with matching regulator. Sold without the Continental drive gear assembly (customer supplied), and requires the latest revision of the Hub (P/N 530406) and Retainer (P/N 352030) B&C has a limited supply of used drive gear assemblies, available at additional cost. NOTE: BC433-H requires purchase of PM/OV Kit 505-1which provides crucial over voltage protection. Alternator...........P/N 07-00771\$525.00 505-1 Kit only......P/N 07-00772\$64.95



TURBO STAND-BY ALTERNATOR

The BPE-14 Turbo Alternator was designed to be installed on most classic, antique and homebuilt aircraft without an electrical system. This is a new design of the old Wind Generator, using the newest in technology techniques and materials. Particular effort was made to optimize the power output (6amp @ 85mph) with size (5" dia.) and weight (5 lbs). STC'd

doaling we stilling in white size (5 dia.) and weight (5 libs). Stock for several aircraft, the unit contains the Turbo Alternator with a built-in regulator and installation kit. A battery is not needed but the Turbo will only produce current while flying. The basic BAE-14/28 Power Supply is a manually deployed, ram air driven, emergency supply for small aircraft. This unit is a true emergency back up unit and is capable of supplying electric power to drive a basic compliment of flight-critical instruments. The Turbo Alternator remains stowed inside the airframe or wing until needed. By tugging on the single t-handle activator cable, a small gas cylinder spring pushes the storage door open and deploys the ram air turbine alternator into the slipstream. For the BPE-14, please specify aircraft model, paint color and voltage. For the BAE-14/28, please specify aircraft model, voltage, registration number and serial number. STC'd for C182, C210, C206, Bonanza, Piper PA-32 & Mooney. \$753.00

.....\$1,948.00

AIRCRAFT SPRUCE WEST CORONA, CA · (877) 4-SPRUCE

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STARTERS – ALTERNATORS

B & C LIGHTWEIGHT STARTERS FOR LYCOMINGS



This extraordinarily light weight starter was specifically designed to meet rigorous demands of today's weight sensitive aircraft designs. Weighing only 10.2 pounds, B & C starters develop more torque than standard starters. The first lightweight starter to be developed, the B & C starter has been in production for over 6 years. It is manufactured

from 100% new components and features total ball-bearing construction. The pinion gear is mechanically engaged with the ring gear before power is applied to the motor. Cantilevered pinion gear mounting requires no forward shaft support bearing thus eliminating cowl interference. If battery failure precedes engine starting, a positive spring retraction system insures pinion gear disengagement. STC'd and PMA'd versions for installation on certificated aircraft are available. STC'd for aircraft powered by any of the following series of Lycoming engines:

· O-235 · O-290 · AEIO-320 · O-360

• O-320

· IO-320 • AIO-320 · AIO-360 AEIO-360

· IO-360 • HO-360 • HIO-360 • O-540

· IO-540

• AEIO-540

• HIO-540 • TIO-540

B & C LIGHTWEIGHT STARTERS FOR CONTINENTALS



This new starter for the Continental 0-200 or 0-240 engine solves all the problems that other starters have had - worn out clutches, cracked pinion gears, hard to find parts. In addition, the BC320 is 4.3 to 5.2 lbs. lighter depending on whether you are replacing a key-type starter or a pull-cable type starter. The BC320 starter is STC'd for use in certificated aircraft and is available with, or without, the STC. Also available are two installation

kits — one for replacing a key-type starter, the other for replacing a pullcable type starter.

If you are replacing a key-type starter, you will need installation kit 501-1. Before installing the BC320, a needle bearing will need to be removed from your engine. To aid in removing this needle bearing, you may purchase Bearing removal kit, 501-2, for \$119.00. If you do not care to keep this tool, you may return it and be refunded \$80.00. If you are replacing a pull-cable starter, you will need installation kit 501-3. Before installing the BC320, you will need to cut off a steel shaft that is installed in your

The new BC320 starter is a complete starter, ready to install, that will replace the existing motor, clutch, and pinion-gear. Tested by Continental with over 5000 start cycles without a problem. Recommended by Rutan Aircraft Factory. Except for paperwork, there are no differences between STC'd starters and starters for homebuilts. A starter must be ordered to match your battery voltage and starter ring gear configuration.

	FOR CERTIFICATED AIRCRAFT APPLICATIONS					
Part No.	Model No.	Pinion Gear Pitch	Teeth on Ring Gear	Battery Voltage	Price	
LYCOMING						
07-06700	BC315-100-1	10/12	122	12	\$580.00	
07-06705	BC315-100-2	12/14	149	12	\$580.00	
07-06710	BC315-100-3	10/12	122	24	\$605.00	
07-06715	BC315-100-4	12/14	149	24	\$610.00	
CONTINENT	ΓAL					
07-06716	BC320-1			12	\$798.00	

	FOR EXPERIMENTAL AIRCRAFT APPLICATIONS				
Part No.	Model No.	Pinion Gear Pitch	Teeth on Ring Gear	Battery Voltage	Price
LYCOMING					
07-06720	BCS206-122-12	10/12	122	12	\$550.00
07-06725	BCS206-149-12	12/14	149	12	\$580.00
07-06730	BCS206-122-24	10/12	122	24	\$575.00
07-06735	BCS206-149-24	12/14	149	24	\$571.00
CONTINENTAL					
07-06737	BC320-H			12	\$750.00

B & C ACCESSORIES

501-1Installation Kit (key type)	P/N 07-06752	\$23.60
501-2Bearing Removal Kit		
501-3Installation Kit (pull cable) .	P/N 07-06754	\$70.75

INTERAV BELT DRIVEN ALTERNATOR KITS

FAA APPROVED ALTERNATOR CONVERSION KITS



This high quality alternator kit is STC'D for most 14 volt aircraft and enables you to replace your belt driven generator with a current day alternator system. The superior features of this system include quick installation, voltage spike guard, built-in radio noise suppression, transistorized voltage regulator, and overvoltage relay protection. Kit includes alternator, mount, regulator, and overvoltage control.

Single Engine Kit	P/N 07-06800	\$694.00
Twin Engine Kit		
Requires 60 AMP Circuit Breaker	P/N 295-29694.	\$32.20

INTERAV KITS INCLUDE					
Part No.	Ref. No.	Description			
015-01237 625-61623 635-62448 015-01240 245-23709 245-23810 345-23893 055-84109 015-01247 115-09964	A-152A A-153C OVR-128 A-187D A-178 A-178A A-177-1 A-152-A1 A-152-4 A-152-2	Alternator Voltage Regulator Overvoltage Relay Mounting Bar Assembly Spike Guard (Capacitor) Spike Guard Assembly Capacitor Resistor Standard Rotation Fan Brush/Holder Assembly			

SKYTRONICS JASCO **GEAR DRIVEN ALTERNATOR KITS**



This Jasco alternator kit is STC'd for many aircraft including the early Cessna 150, 172, and 175 series as well as Beech Model 35's with early E series Continental engines. Applicable to Continental C-90, 0-200 and 0-300 engines. This kit includes 50 amp alternator, voltage regulator, over-voltage control, and STC documents. Available for 14V systems only. Well-

proven over many years of use in a variety of aircraft. In stock for immediate shipment. STC'd for Cessna 150-170, 172, 175, Beech 35 Series, Navion A. Skytronics Kit #6560-1

P/N 07-06900 \$933.00

Volts	Amps	Drive	Alt. P/N	Kit P/N	Price
12	50	4 stud, 6 spline sqr pad	6555T	6555-1	\$757.00
12	50	Round pad like Delco config.	6560T	07-06900	\$933.00
12	50	6 stud, 16 spline rnd. pad	6565T	6565-1	\$803.00
24	50	4 stud, 6 spline sqr. pad	7555T	7555-1	\$774.00
24	50	6 stud, 16 spline rnd pad	7565T	07-75651	\$803.00
24	70	Hiller UH12E round pad	7555H-72B	07-07555	\$1,157.00
24	70	4 stud, 6 spline sqr. pad	7655T	07-00703	\$1,004.00
		7555H-72B Kit		07-00702	\$1,322.00
24	70	Alternator	7555H-72B	07-07555	\$1,157.00
		J12M24SPH Reg. Controller	J12M24SPH	07-00314	\$168.95
		17-10 Resistor 150 Ω	17-10	07-01710	\$11.70
		7655T Kit			
24	70	Alternator	7655T	07-00703	\$1,004.00
		J12M24SPH Reg. Controller	J12M24SP	07-00696	\$168.95
		17-10 Resistor 150 Ω	17-10	07-01710	\$11.70
12		Voltage Controler	J12M20SP	07-00697	\$168.95
24		Voltage Controler	J12M24SP	07-00696	\$168.95
24		Voltage Controler	J12M24SPH	07-00314	\$168.95
24		Voltage Controler	J24-100SP	07-00698	\$169.95
24		150Ω Resistor	17-10	07-01710	\$11.70
24		75Ω Resistor	17-1	07-00699	\$11.50
		Terminal Conversion kit	ESC-2	07-00701	\$80.00

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274

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STARTERS



STARTERS FOR TELEDYNE CONTINENTAL ENGINES (FAA/PMA)

CONTINENTAL ST2



For C-85-12, C90, O-200, O-300-A, -B, -C engines. If aircraft was manufactured with key start, order C12ST2. If aircraft has been previously converted from a pull-start, order C12ST2/S (/Sdenotes short nose.) If aircraft is a pull start, order KCST2 (conversion kit that includes a C12ST2/S starter, push button, wiring harness, STC's and instructions for converting from pull start). Weight: 9.2 lbs.

Model C12ST2	P	/N 07-00614	\$512.00
Model C12ST2/S	P	/N 07-00719	\$514.00
Model KCST2	P	/N 07-00721	\$564.00

CONTINENTAL ST3



All new design fits the entire line of TCM engines with rear mounted, right angle starter adapters. Spins the prop approximately 30% faster than OEM starters while drawing less current. The ST3 is designed to spin freely while at rest to maximize starter adapter life. For O-300-D, -E, IO/TSIO-360, IO-346, O/IO-470, IO/TSIO-520, IO/TSIO-550 engines.

Model C12ST	P/N 07-00766 \$514.00
Model C24ST3	P/N 07-00767 \$528.00

STARTERS FOR FRANKLIN ENGINES (FAA/PMA)

FRANKLIN ST1



Lightweight, high-torque, low-current draw. The only lightweight, high-torque starter available for Franklin engines. Fits Franklin 4A-235, 6A4-150, & 165, 6A-335, 6A & 6V-350 engines. Weight: 8 lbs.

Model F12ST1	P/N 07-06262	\$519.00
Model F24ST1	P/N 07-06263	\$572.00

RECOMMENDED STARTER BY AIRCRAFT

For complete listing of recommended Sky-Tec™ Starters by Aircraft make & model, please see the Aircraft Spruce website for a link to the Sky-Tec™ website at:

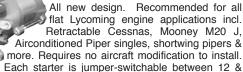
www.aircraftspruce.com

Flyweight™ Starters

FAA/PMA approved replacement for all Kelly (Magnaflite), Electrosystems and Prestolite Lycoming Starters.

STARTERS FOR TEXTRON LYCOMING ENGINES (FAA/PMA)

HIGH-TORQUE INLINE



24V. 50% faster spin over OEM starters. Internal kickback protection via shear pin. Count ring gear teeth and order corresponding model number. NLR is reverse-turning for counter-rotating right engines on twins.(will not fit C206H(order 149-24PM), Beech A-60/B-60 Duke(order 149-24HT) or G-Series engines (such as G0-360,etc.).

Model	122-NL	07-00761	\$514.00
Model	149-NL	07-00762	\$514.00

ORIGINAL HI-TORQUE



Features a wound field motor, dual ball-bearing design, light weight (8.4 lbs.) and a sealed, rugged design for harsh environments, helicopters, bush planes & IO-720-powered aircraft such as Twin Commanders. Recommended for Super Cubs and experimental aircraft with tight front cowling clearance.

\$424.00	07-06250	P/N	122-12HT	Model
\$424.00	07-06251	P/N	122-24HT	Model
\$424.00	07-06254	P/N	149-12HT	Model
\$424.00	07-06255	P/N	149-24HT	Model

FLY-WEIGHT™ LS & PM



The industry standard. More than 40,000 in service today. At 7.8 lbs., it's the lightest, best-selling, best-value starter on the market. Sold as original equipment by Lycoming & aircraft manufacturers world-wide. Features include Bendix-free electromechanical actuation, lightweight, hightorque permanent magnet motors, gearreduction & compact design. Ideal for weekend flyers and air operators on a tight budget. The LS model's solenoid is on the aircraft's left side (2:30 position as viewed from the front) and the PM model's solenoid is on the aircraft's right side (7:30 posi-

tion as viewed from the front). Call to confirm a recommended starter for an aircraft. For 24V LS applications, consider the 24HT (above). Count ring gear teeth and confirm voltage before ordering.

	Jordia Gradinig.	in and committee voltage be
.\$364.00	N 07-06245	Model 122-12LS* P/N
.\$364.00	N 07-06246	Model 149-12LS* P/N
.\$453.00	N 07-06248	Model 149-24LSP/N
.\$364.00	N 07-06252	Model 122-12PMP/N
.\$364.00	N 07-06253	Model 149-12PMP/N
.\$453.00	N 07-06249	Model 122-24PMP/N
\$453 00	N 07-06257	Model 149-24PM P/N

PM INSTALLATION ACCESSORIES

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MAGNAFLITE STARTERS FROM KELLY AEROSPACE



MagnaFlite is the lightest starter on the market. Weighting in at 60% less than conventional starters, our Lycoming models are the easiest to install with no modifications required. An FAA/PMA approved unit, MagnaFlite carries the same installation eligibility as Electrosystems' OE Prestolite-style starters. The MagnaFlite starter is user friendly in many ways. No STC approvals or 337 forms are needed for installation. The MagnaFlite fits all original Prestolite configurations, using identical airframe baffle and component attachment points. It meets all requirements for voltage, gear reduction, direct drive, and count-

er rotation. MagnaFlite, the most powerful starter available, provides 65% greater horsepower than conventional starters, resulting in higher cranking speeds, and faster start times. In addition, it is designed to last the TBO of the engine and provides optimum reliability and cranking power throughout its service life. MagnaFlite is designed specifically for aviation, using only the highest quality certified parts. MagnaFlite is also backed by a 2 year, unlimited hours, "No Hassle" warranty and Kelly's long standing reputation for unmatched technical support and customer service. All prices plus \$200 core charge.

Our P/N	Equivalent Alternate P/N	Equivalent Lycoming P/N	Installation Eligibility	Our Price
MHB-6014	MHB-4014, MHB-4009	LW14214	Lycoming Engine - 28V; LTIO-540 Series; 149 Tooth Ring Gear	\$366.95
MHB-6016	MHB-4016, MHB-4001, MHB-4010	LW15572	Lycoming Engine - 28V; O-320, O-340, O-360, O-540, IO-540 Series; 149 Tooth Ring Gear	\$380.95
MHB-6018	MHB-4018, MHB-4013, MHB-4017	LW15577	Lycoming Engine - 28V; LTIO-540 Series; 149 Tooth Ring Gear	\$366.95
MZ-6220	MZ-4220, MZ-4216	LW14215	Lycoming Engine - 12V; LIO-320, LO-360, LIO-360 Series; 149 Tooth Ring Gear	\$332.95
07-00824	MZ-4222, MZ-4218, MZ-4206	LW15571	Lycoming Engine - 12V; O-235,O-290,O-320,O-340,O-360,O-540Series;149 tooth ring gear	\$388.95
MZ-6224	MZ-4224	LW16460	Lycoming Engine - 12V; O-320 Series; 149 Tooth Ring Gear	\$332.95
MZ-6226	MZ-4226	LW18989	Lycoming Engine - 12V; O-360 Series; 149 Tooth Ring Gear	\$332.95

LAMAR STARTERS (NEW)



Lamar Permanent Magnet Starters represent the next generation in starter technology, setting new standards in performance and reliability. These new lightweight starters deliver exceptional torque to start virtually any general aviation piston engine in nearly any environment, yet weigh about 40 percent less than conventional starters. The key is Presicion's patented permanent magnet motor design. It replaces the bulky windings of a conventional starter motor with lightweight permanent magnets. This revolutionary design not only eliminates considerable weight, but results in more efficient starter operation and improved

performance under all conditions. During extensive performance testing, Lamar starters consistently provided quicker engine starts than conventional starters under a variety of operating conditions. These TBO starters are built to go the distance between engine overhauls. Conventional starters generally don't last. They usually have to be pulled off for repair or replacement at least once during the life of the engine. All Prices plus a \$200 core charge.

P/N 12V	PRESTOLITE	LYCOMING	PRICE	P/N 24V	PRESTOLITE	LYCOMING	PRICE
PM1203	MZ-4204	76210	\$419.00	PM2401	MHB-4001	76212	\$411.95
PM1201	MZ-4205	76213	\$419.00	PM2401	MHB-4002	75700	\$411.95
PM1201	MZ-4206	76211	\$419.00	PM2401	MHB-4003	76214	\$411.95
PM1201	MZ-4207	75699	\$419.00	N/A	MHB-4004	77879	
N/A	MZ-4208	75787		PM2401	MHB-4005	78791	\$411.95
PM1204	MZ-4216	LW-10556		PM2401	MHB-4007	LW-11936	\$411.95
PM1201	MZ-4217	LW-14209	\$419.00	PM2401	MHB-4008	LW-12023	\$411.95
PM1201	MZ-4218	LW-14207	\$419.00	PM2401	MHB-4009	LW-12159	\$411.95
N/A	MZ-4219	LW-14211		PM2401	MHB-4010	LW-14208	\$411.95
PM1204	MZ-4220	LW-14215		N/A	MHB-4011	LW-14212	
PM1201	MZ-4221	LW-15573	\$419.00	PM2401	MHB-4012	LW-14210	\$411.95
PM1201	MZ-4222	LW-17771	\$419.00	PM2402	MHB-4013	LW-14213	
N/A	MZ-4223	LW-15576		PM2401	MHB-4014	LW-14214	\$411.95
PM1202	MZ-4224	LW-16460		PM2403	MHB-4015	LW-15483	\$423.95
PM1201	MZ-4225	LW-18047	\$419.00	PM2401	MHB-4016	LW-15572	\$411.95
PM1201	MZ-4226	LW-18989	\$419.00	N/A	MHB-4017	LW-15571	
	CONTI	NENTAL		PM2402	MHB-4018	LW-15577	
				PM2401	MHB-4019	LW-15574	\$411.95
XT1207		646238	\$356.95	PM2401	MHB-4020	LW-18990	\$411.95
				N/A	MHB-4004	77879	
				N/A	MHB-4005	LW-12787	
				PM2403	MHB-4001	LW-16207	\$423.95
					CONTIN	IENTAL	
				XT2407		642275	\$346.95

LAMAR OVERHAULED STARTERS



In addition to the factory new Lamar starters listed above, Aircraft Spruce also stocks overhauled Lamar starters. The PM1201 starter is ideal for the Lycoming O-320 & O-360 series engines and the PM2401 is applicable to the Lycoming O-540 series engines. Like the new Lamar starters, these overhauled starters are FAA/PMA approved, fully bench tested, provide superior cold weather performance, utilize a patented permanent magnet design, use a planetary gear reduction for optimum speed and torque (110 RPM), and draw less amperage than lightweights to help lengthen battery life.

> Overhauled PM1201 starter ..P/N 08-01201\$262.95 Overhauled PM2401 starter ..P/N 08-02401\$276.95

AIRCRAFT SPRUCE WEST

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Add \$100 core charge

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CORONA, CA · (877) 4-SPRUCE

LYCOMING PARTS TO CONVERT 0-235 WITH SPIN-ON OIL FILTER

TO OIL SCREEN Oil Pressure Screen Housing P/N 68974

\$252.95 Oil ScreenP/N 62817.... ...\$77.75 Oil Screen Housing Gasket

P/N 61173 \$1.05

FOR OIL COOLER INSTALLATION ADD:

Spring P/N 69436 \$25.00 Plunger P/N 62415 \$24.70P/N AN900-10\$0.46 Gasket.....

Cont. Oil Screen..P/N 08-01544......\$176.95 OIL COOLER PARTS SHOWN ABOVE NOT

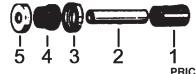
USED WITH THERMAL VALVE ASS'Y

GENERATOR ATTACHING PARTS FOR CONT. C85, C90 & 0-200



REF.	P/N	<u>ITEM</u>	PRICE
#2	352068	Oil Seal	\$6.60
#3	530406	Hub Coupling	\$198.95
#4	352030	Retainer	\$16.80
#5	626543	Bushing	\$4.45 ea
#6	530407	Sleeve	\$65.75
#7	531325	Gear	\$289.95
#8	530412	Slotted Nut	\$22.20
#9	35019	Gen. Gasket	\$5.20
#10	352179	Starter Gskt	\$4.95

ENGINE MOUNTING PARTS FOR CONT. C-90-14F & O-200 ONLY



				FINCE
REF.	P/N	<u>ITEM</u>	QTY.	EACH
#1	628555-16	Hose	(4)	\$6.20
#2	530627	Spacer	(4)	\$19.50
#3	530626	Seat	(8)	\$12.95
#4	530740	Bushing	(8)	\$12.40
#5	530741	Washer	(8)	\$4.50
	AN6-55	Bolt	(4)	\$8.00
	AN310-6	Nut	(4)	\$0.77
MS	24665-283	Pin	(4)	\$0.04

ALTERNATOR & GENERATOR BELTS

Lycoming	37A19773-376	(Alt.)	\$34.90
Lycoming	37B19774-374	(Gen.)	\$39.30
Lycoming	37B19774-325	(Gen.)	\$33.90
Continental	539547-31.19		\$19.90

J3 CUB ENGINE EYEBROWS

J3 Cub engine eyebrows are made of 3003H14 aluminum and funished complete with steel mounting brackets & mounting bolts. Each set of engine eyebrows is made by hand and are highest quality. Available for Continental engines A-65 through O-200. Funished as a set of 2.

A-65 engine eyebrows P/N 08-01307 . . . \$414.95 C-85 to O-200 engine eyebrows

P/N 08-01308 . . .**\$391.95**

ENGINE PARTS



INTAKE HOSES

Lycoming 1-3/4" I.D. #69603**\$5.50 ea**

Lycoming 1-1/2"ID (SSRSTD-1186) \$3.60 ea

Cont.#22800 Outer (8), & Cont.#21185 Inner (8) for A-65 thru 0-300.

P/N 08-03700\$3.24 Pr



INTAKE GASKETS

Cont. #21327 (4) for a-65 only \$0.95 ea Cont. #22250 (4) for C-85 — 0-300



EXHAUST GASKETS

Cont.. #21493 (08-05237) for A-65 thru 0-300 (4) List \$4.30 \$1.25 ea

Cont. #632837 Stainless Steel \$1.90 ea Lyc. #65321 for 0-235 — 0-540 (4) \$3.50 ea



EXHAUST NUTS

Cont. #22022 (5/16-24) for A-65 thru 0-300 (8)\$0.86 ea Cont. #21247 (1/4-28) for 0-470 (12) \$3.85 ea Lyc. #STD1410 (5/16-18)\$1.64 ea

ROCKER BOX GASKETS



Cont. #530162 for A-65 thru 0-300 (4)......\$3.90 ea Lyc. #75906 for 0-235 thru 0-320 (4)\$1.95 ea



ROCKER BOX COVER SCREWS

Cont. #535091 (24) ..\$0.38 Ea Lyc. #STD1925 (24) \$0.77 Ea

CYLINDER BASE SEALS



Cont. #21477 for A-65 thru 0-200 (4).....**\$0.65 Ea**

MAGNETO FLANGE GASKET



Cont. #535324 All Cont. engines.\$6.70 Ea Lycoming #62224 \$1.41 Ea

TACH OIL SEAL

Cont. #642714 (was #640087) for A-65 thru 0-\$6.20

Lyc. #LW14260 for 0-235, 0-290\$5.20



OIL PRESSURE HOUSING GASKETS

Lyc. #61173 for 0-235, 0-290 (1) (2 with oil cooler)\$1.05 Ea

CARBURETOR GASKETS



For A-65 thru 0-200 Cont. #21051 (Top)\$1.86 Ea Cont. #21323 (Bottom)

\$1.40 Ea

GENERATOR DRIVE BELT

Lyc. #60886 for 0-235, 0-290......\$33.90



MAGNETO DRIVE GEAR

Continental #36066\$491.95 Continental #36067\$148.00



\$1.15 ea

PUSH ROD SEALS

Continental #539840 for A-65 thru 0-200 (8)\$1.28 Ea.





Cont. #3577 Gasket\$0.95 Cont. #532432 Plug..

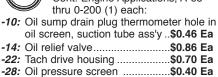
CRANKSHAFT OIL SEALS



Cont. #530019 for A-65 thru 0-200, Flanged Shaft\$29.90 Cont. #24321 for A-65 and C-85, Taper Shaft \$44.80

Lyc. #76940 for 0-235, 0-290

AN900 COPPER GASKETS Cont. Engine Applications, A-65



AERO-SEAL HOSE CLAMPS



Aero-Seal Clamps for Cont. ntake Hoses.

P/N QS100-M32W\$1.49 Ea

PROP GOVERNOR GASKET

P/N 07-00878**\$15.50**



RING HOSE CLAMPS Cont. #536388 (16) Required

\$1.43 Ea

ENGINE MOUNT BUSHINGS



Cont. #22387 for A-65. C-85. C-90 except C-90-14F (8) Req'd\$1.72 Ea

Lyc. #60883 for 0-235 and 0-290, 7/8" hole (8)Reg'd \$9.70 Ea Lyc. #71032 for 0-320 with 1" hole (8) Req'd \$7.00 Ea.

ENGINE MOUNT WASHERS



Cont. #21530 for A-65, C-85, C-90 except C-90-14F (8) Rea'd... \$8 40 Fa

Lyc #STD619 for 0-235 thru 0-320 (8) Req'd \$6.90 Ea.

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AIRCRAFT SPRUCE EAST **Prices Subject to Change Without Notice** PEACHTREE CITY, GA • (877) 4-SPRUCE

ΕP

ENGINE PARTS

CONTIN	IENITAL	ENIONE	DADTO
CONTI	NENIAL	ENGINE	PARIS

CONTINUENTAL	ENGINE LATTIC
C-85 Price Each	Price Each
639640 Bearing set, rod (2 req.)\$12.50 21477 Cyl base seal\$0.65 530917 Crankshaft seal taper\$3.90 SA402151 Ex. stud\$3.50 22022 Ex. nut\$0.86 646612 Exhaust Valve\$140.95 653728 Gasket, rocker\$1.90 632837 Gasket, no-blow\$1.90 22250 Gasket, intake\$1.15 646539-A1 Gasket set, moh\$3.75 21185 Intake hose\$1.29 641792 Intake Valve (30 degree) \$47.10 530019 Nose seal, flange sft\$29.90 530830 Piston pin\$48.70 539840 Push rod packing\$4.73 649632-A1 Ring set, steel barrel\$27.30	643967 Ex. nut

IO-470 ANGLE HEAD

SSR532200 Cyl base seal...

SA643873 Exhaust Valve ...

628260 Gasket, no-blow.

642917-1 Intake hose 646283 Intake Valve .

539467 Piston pin .

IO-520 TSIO-520 630826 Bearing set, rod 653888 Camshaft follower tappet SSR641066 Cyl base seal...

SSR536413 Gasket, intake

646546-A1 Gasket set, moh

SA534610 Push rod packing....

SSR539740 Rocker shaft

653191 Gasket, rocker, angle head\$6.80

SA402151 Ex. stud

21247 Ex. nut

643967 Ex. nut

PA641250 Crankshaft seal

O-200

627246-A1 Bearing set, main	
639640 Bearing set, rod (2 req.) .	.\$12.50
653851 Camshaft followr,tappet	\$139.45
21477 Cyl base seal	\$0.65
530019 Crankshaft seal	.\$29.90
SA402151 Ex. stud	\$3.50
22022 Ex. nut	\$0.86
646612 Exhaust Valve	\$140.95
530162 Gasket, rocker	\$3.90
627429 Gasket, no-blow	\$8.95
22250 Gasket, intake	\$1.15
646539-A1 Gasket set, moh	.\$83.75
22800 Intake hose	\$1.95
641792 Intake Valve (30°)	.\$47.10
530019 Nose seal, flange sft	.\$29.90
646255 Piston	.\$69.50
530830 Piston pin	.\$48.70
539840 Push rod packing	\$1.28
649632-A1 Ring set, steel barrel	.\$27.30
653394 Ring set, chrm barrel	.\$17.70

O-300

639640 Bearing set, rod (2 req.)	\$12.50
653851Camshaft follower tappet	\$139.45
21477 Cyl base seal	\$0.65
530917 Crankshaft seal	\$33.90
SA402151 Ex. stud	\$3.50
22022 Ex. nut	\$0.86
646612 Exhaust Valve	\$140.95
530162 Gasket, rocker	\$3.90
627429 Gasket, no-blow	\$8.95
22250 Gasket, intake	\$1.15
6465417-A1 Gasket set, moh	\$116.95
21185 Intake hose	\$1.29
641792 Intake Valve (30°)	
530019 Nose seal, flange sft	\$29.90
646255 Piston	\$69.50
530830 Piston pin	
539840 Push rod packing	\$1.28
649632-A1 Ring set, steel barrel	\$27.30
24051 Valve Springs inner	\$6.40
625958 Springs outer	\$5.30

O-470 ANGLE HEAD

653888 Camshaft follower tappet SSR532200 Cyl base seal	
PA641250 Crankshaft seal	
SSR401893 Ex. stud	\$2.95
21247 Ex. nut	\$3.85

11111 Darrei 317.70	
	PA641250 Crankshaft seal\$33.50
	SSR401893 Ex. stud\$2.95
rod (0 rog) \$10 E0	SSR638125 Ex. stud, rosan\$6.20
, rod (2 req.) \$12.50	21247 Ex. nut\$3.85
llower tappet \$139.45	643967 Ex. nut\$1.89
al\$0.65	SA643873 Exhaust Valve\$133.95
seal\$33.90	653191 Gasket, rocker\$6.80
\$3.50	SSR628260 Gasket, no-blow\$6.50
\$0.86	SSR536413 Gasket, intake
lve\$140.95	642917-1 Intake hose\$18.80
ker \$3.90	646283 Intake Valve\$72.50
-blow \$8.95	654850 Piston IO-520\$164.95
re \$1.15	630046 Piston pin\$41.40
t set, moh\$116.95	SA534610 Push rod packing\$0.77
\$1.29	652148 Ring set, steel cyl IO-520\$109.70
e (30°) \$47.10	032146 hillig Set, Steel Cyr 10-320\$109.70
flange sft\$29.90 \$69.50	CONTINENTAL ENGINE BELTS
	539547-30.00 \$19.30

539547-30.00	\$19.30
539547-31.19	\$19.90
539547-32.00	\$25.90
539547-35.00	\$31.20
642759	\$29.85
37A19973-376 (76026)	\$34.90
37A19973-382 (74519)	\$32.20
37B19774-325 (60886)	\$33.90
37B19774-341 (71579)	\$36.60

CONTINENTAL CYLINDERS

O200 new assy 654377A10\$949.00

LYCOMING ENGINE PARTS

Price Each

O-235 L,N SERIES	<u>O-320</u>
69373 Bearing, rod, 8 req\$16.20	71973 Gasket, intake \$0.81
71105 Camshaft follower tappet\$86.75	SSRSTD-1196 Intake hose 1-1/2\$3.60
SSR62869 Cyl base seal\$4.45	69603 Intake hose 1-3/4\$5.50
STD-2180 Cyl drain hose\$3.40	73938 Intake Valve\$74.75
LW-11997 Crankshaft seal\$32.40	75089 Piston, high compression \$101.95
SSR31C-12 Ex. stud\$3.10	75413 Piston, low compression \$127.50
STD-1410 Ex. nut\$1.64	SSRLW-13444 Piston pin\$59.25
41271 Fuel pump, mechanical\$177.50	SSRLW-18661 Push rod packing\$2.50
75906 Gasket, rocker\$1.95	74241 Ring, compression steel cyl\$31.20
77611 Gasket, no-blow\$5.95	SSR73857 Ring, oil ctl steel cyl\$18.30
71973 Gasket, intake\$0.81	0.10.000
SSR61499-1 Gasket set, moh\$180.95	O,IO-360

SSRLW-18661 Push rod packing....\$2.50 LW-11800 Spring, valve outer\$21.00

O-290

..\$2.90

.\$33.50

.\$3.50

\$3.85

..\$1.89

.\$6.50

.\$0.44

\$117.95

\$72.50

\$47.70

...\$0.77

..\$14.20

.\$5.70

\$133.95

69373 Bearing set, rod
000000000000000000000000000000000000000
SSR72877 Camshaft follower\$69.95
SSR71481 Cyl base seal\$2.65
SSR31C-12 Ex. stud\$3.10
STD-1410 Ex. nut\$1.64
41271 Fuel pump, mechanical \$177.50
75906 Gasket, rocker\$1.95
77611 Gasket, no-blow\$5.95
71973 Gasket, intake\$0.81
SSR69371-1 Gasket set, moh\$205.95
SSRSTD-1196 Intake hose 1-1/2"\$3.60
Intake Valve 73938\$74.75
IIIIake valve /3930 3/4./3
69841 Piston\$243.95
69841 Piston\$243.95
69841 Piston\$243.95 SSRLW-18661 Push rod packing\$2.50
69841 Piston\$243.95 SSRLW-18661 Push rod packing\$2.50 62916 Ring, compression steel cyl\$91.25
69841 Piston\$243.95 SSRLW-18661 Push rod packing\$2.50 62916 Ring, compression steel cyl\$91.25 69401 Ring, oil control steel cyl\$76.50
69841 Piston\$243.95 SSRLW-18661 Push rod packing\$2.50 62916 Ring, compression steel cyl\$91.25 69401 Ring, oil control steel cyl\$76.50 LW11795 Spring, Valve, inner\$13.30
69841 Piston\$243.95 SSRLW-18661 Push rod packing\$2.50 62916 Ring, compression steel cyl\$91.25 69401 Ring, oil control steel cyl\$76.50 LW11795 Spring, Valve, inner\$13.30 LW-11800 Springs, Valve, outer\$21.00
69841 Piston\$243.95 SSRLW-18661 Push rod packing\$2.50 62916 Ring, compression steel cyl\$91.25 69401 Ring, oil control steel cyl\$76.50 LW11795 Spring, Valve, inner\$13.30 LW-11800 Springs, Valve, outer\$21.00 69373 Bearing, rod\$16.20
69841 Piston\$243.95 SSRLW-18661 Push rod packing\$2.50 62916 Ring, compression steel cyl\$91.25 69401 Ring, oil control steel cyl\$76.50 LW11795 Spring, Valve, inner\$13.30 LW-11800 Springs, Valve, outer\$21.00 69373 Bearing, rod\$16.20 SSR72877 Camshaft follower\$69.95
69841 Piston\$243.95 SSRLW-18661 Push rod packing\$2.50 62916 Ring, compression steel cyl\$91.25 69401 Ring, oil control steel cyl\$76.50 LW11795 Spring, Valve, inner\$13.30 LW-11800 Springs, Valve, outer\$21.00 69373 Bearing, rod\$16.20 SSR72877 Camshaft follower\$69.95 SSR71481 Cyl base seal\$2.65
69841 Piston

SSRSTD-1196 Intake hose 1-1/2" ..\$3.60

LW11901 Intake Valve\$74.75

SSRLW-13445 Piston pin......\$58.00

68028 Piston pin plug......\$8.60

LYCOMING CYLINDERS

O-235C,E,H chrome stud	\$1,522.00
LW15318 O320H new ass'y	\$1,522.00
LW12427 O-360 new ass'y	\$1,267.00
LW12988 O540/HIO360 new ass'	y \$1,683.00

SSA72877 Camshaft follower	.\$97.00
SSR71481 Cyl base seal	\$2.65
LW-11997 Crankshaft seal	.\$32.40
SSR31C-12 Ex. stud	\$3.10
STD-1410 Ex. nut	\$1.64
LW-19001 Exhaust Valve	230.95
LW15473 Fuel pump, mech	254.95
75906 Gasket, rocker	\$1.95
77611 Gasket, no-blow	\$5.95
71973 Gasket, intake	\$0.81
SSR75439-1 Gasket set, moh	198.95
69603 Intake hose 1-3/4"	\$5.50
75089 Piston, high compression	101.95
SSRLW-18661 Push rod packing	\$2.50
74241 Ring, comp steel cyl	.\$31.20
SSR73857 Ring, oil ctk steel cyl.	.\$18.30
LW11795 Springs, Valve, Inner	.\$13.30
LW-11800 Springs, Valve, Outer.	\$21.00

Price Each

O,IO-540

SSR72877 Camshaft follower	\$69.95
SSR71481 Cyl base seal	\$2.65
13792 Crankshaft seal	\$11.80
SSR31C-12 Ex. stud	\$3.10
STD-1410 Ex. nut	\$1.64
LW15473 Fuel pump, mech	\$254.95
75906 Gasket, rocker, most	\$1.99
77611 Gasket, no-blow	\$5.95
71973 Gasket, intake	\$0.81
SSR71569-1 Gasket set, moh	\$283.95
69603 Intake hose 1-3/4"	\$5.50
73938 Intake Valve	\$74.75
75089 Piston	\$101.95
60828 Piston pin plugs	\$7.60
SSR70310 Push rod packing .	\$0.72
74241 Ring, comp steel cyl	\$31.20
SSR73857 Ring, oil ctl, steel o	yl \$18.30
LW11795 Spring, Valve, inner.	
LW-11800 Springs Valve, oute	r \$21.00

OIL COOLER GASKET SETS

Our P/N	Continental P/N	Price	Our P/N	Continental P/N	Price	Our P/N	Continental P/N	Price
08-00951	631059/630849	\$13.35	08-00956	626342	\$13.35	08-00961	632372	\$16.95
08-00952	537282	\$16.95	08-00957	654554	\$27.15	08-00962	632372	\$16.95
08-00953	654555	\$18.59	08-00958	626342	\$13.35	08-00963	629116	\$34.29
08-00954	626342	\$13.35	08-00959	654554	\$27.15	08-00964	629116	\$28.59
08-00955	654554	\$27.15	08-00960	631059/630849	\$15.95			

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Prices Subject to Change Without Notice

CHALLENGER AIR FILTERS



CHALLENGER AVIATION HIGH-FLOW AIR FILTER w/ K&N FILTER MEDIA

Features & Benefits of Prime air filters: • 40% - 50% better airflow • Can be washed and serviced up to 25 times • Increase horse power 2%-4% •Save money and improve engine efficiency • FAA-PMA approved • Properly serviced, can be used to TBO of an engine • Ecologically sound • Better takeoff and climb-out performance • Fire retardant • Faster airspeed and/or better fuel consumption • Have been used on high performance vehicles for 40yrs • Accordion fold design provides up to 5 times the filtering surface of non-pleated designs.

Challenger P/N	Our P/N	Application	Installation	Price
CPE-1957	08-00719	Aero Commander: A-9, A9A, A9B	Brackett BA-104, FRAM CA-161PL	\$134.95
CP-1150	08-00843	Aeronca: S65,S65CA,7AC,7ACA,7BCM(L-16A)ARMY, 7CCM (6-16B) ARMY, 7DC,7EC,7FC,7JC,7ECA,7GCAA 7GCBC,7KC,7KCAB,S7AC,S7CCM,S7DC,S7EC	Brackett BA-4106	\$142.95
CPE-1957	08-00719	Aeronca: 7GC, 7GCA, 7HC, 7GCB, 7GCBA, 7KC	Donaldson P10-4145,FramCA161PL	\$134.95
CP-2004	08-01024	Beech Baron: 95-C55,95-C55A,S/N TE-1 thru TE-451, Except TE-50,D55,D55A,S/N TE-452 thru TE-492, E55, E55A,S/N TE-768 thru TE-1079, 58 S/N TH1-TH740	Donaldson P12-7996 Brackett BA-6210-1 Air Maze 121128-2	\$139.95
CP-2003	08-00816	Beech Bonanza/Debonaire: 35,35A,B35 S/N D2606 & up, CBG35,35-33,35A-33,35-B33,35-C33,H35,J35,K35,M35,N35,P35, V35,V35A,V35B,S35,after S/N D7672, E33 all 225HP,E33A,F33 F33A,F33C,G33,36,A36,A36TC,B36TC,T-34 w/STC SA1450SW	Beech 35-380035-3-5-7 Donaldson P10-5304, P10-137627 Brackett BA-7110, BA-7210, BA-7410	\$135.95
CPE-1957	08-00719	Beech Musketeer: A23A, A23, A23-24, B23, 23	Brackett BA-104, Beech 169-3	\$134.95
CPE-1957	08-00719	Britten Norman (Islander): BN-2,BN-2A-21,BN-2A,BN-2A-6 BN-2A-27, BN-2B-20, BN-2A, 8BN-2A-20, BN-2B-21, BN-2A-2, BN-2A-3, BN-2A-9, BN-2B-26, BN-2B-27	Fram CA161PL Brackett BA-104	\$134.95
CP-1150	08-00843	Cessna: 120,140,150,150A-H,J,K,L,M, A150L, A150K A150M, 152, A152	Brackett BA-4106, Donaldson P10-7150 Cessna C294510-0201	\$142.95
CP-1172	08-00902	Cessna: 170,170A, 170B,172,172A-G, I, K, L, M, N, P, Q	Cessna C294510-0301,Donaldson P10-7172, Brackett BA-5110	\$139.95
CPE-1173	08-00894	Cessna: 172R, S	Donaldson P198281, Fram 3559	\$134.55
CP-1177	08-01220		Brackett BA-5710, Donaldson P11-0172	\$192.95
CP-1182	08-00870	Cessna: 180 (exception 1953-1955 models),180A-H,182J-N, 182P-R, 182S S/N 18280945 & up, T182 S/N18208001 & up, 185, 185A-E, A185E, A185F	Brackett BA-8110 Cessna 0750038-1-4 Donaldson P10-6150	\$136.95
CPE-1202	08-00903	Cessna: 182S, S/N's 1828001 thru 18280944	Donaldson P19-8290, Fram CA3717	\$99.95
CPE-1178	08-01221	Cirrus: SR-20, SR-22	Brackett BA-111	\$188.95
CPE-1957	08-00719		Brackett BA-104, Fram CA161PL	\$134.95
CP-1150	08-00843		Brackett BA-4106	\$142.95
CP-1172	08-00902	Maule:M-4,M-4C,M-4S,M-4-220,M-4-220C,M-4-220S,M-5-180C, MX-7-180,M-5-210C,M-5-235C,M-5-210TC,M-6-180,M-6-235,M-7-235	Brackett BA-6110, P12-6491	\$139.95
CP-1150	08-00843	,	Brackett BA-4106, P12-0494	\$142.95
CP-1172	08-00902	Mooney: M20, M20A, M20B, M20C, M20D, M20G	Brackett BA-6110, P12-6491,Fram13219	
CP-1176		Mooney: M20E, F	Brackett BA-6310, P10-4065	\$147.95
CP-1174 CP-1175	08-00896 08-01020	, , ,	Brackett BA-6210 Donaldson P13-6287	\$188.95 \$198.95
CP-1175 CPE-1179		Mooney: M20K, S/N 25-1000 & up Mooney: M20M, M20R, M20S	Mooney 600417-503,AM Edd4028, P524257	\$183.50
CPE-1179 CPE-1151	08-01203	Piper: PA-18 S/N18-6964 & up O-230	Piper454-118,FramCA122PL,BrackettBA-112	\$178.95
CPE-1040	08-01032	Piper: PA28R-180,PA28R-200,PA28R-200T,PA28R-201	Brackett BA-105, Fram CA-144PL	\$185.50
01 1040	00-00717	PA28RT-201,PA30,PA-34-200,PA39,PA44-180,PA44-180T	Piper 460-630	ψ103.30
CPE-1957	08-00719	180 S/N1477&up,PA24-250 S/N1477&up,PA24-260 prior to S/N 4177, PA25-150,PA25-235,PA25-260 prior to S/N1477,PA28-140,PA28-150, PA28-160,PA28-180,PA28-181,PA28-235,*PA32-260, *PA32-300 S/N 32-7640001 &up,*PA32R-300,*PA32R-300,*PA32RT-300T, *PA34-220T,*PA36 w/Cont. (*Cover Plate CPE-0528 is required when replacing Brackett Filter.)	Brackett BA-104 Fram CA-161PL Piper 460-632 Puro AFP-2 AC-6485710	\$134.95
CP-1150	08-00843	Piper:J3,J3C-65,J3C-65S,J5A,J5A-80,PA-11,PA-11S,PA-12,PA-12S PA-16,17,18, PA-18A, PA-18S, PA-18-105, PA-20-115, PA-20-135, PA-22-108, PA-22-135, PA-22-150, PA-22-160, PA-38-112	Brackett BA-104 Piper 460-638	\$142.95
CPE-1956	08-01033	Piper: PA28-151, 161	Brackett BA-104	\$183.70
CP-1150	08-00843	Reims/(Cessna): F150G ,F150H, F150J, F150K, F150L, F150M, FA150K, FA150L, F152, FA15	Brackett BA-4106, C294510-0201 Donaldson P10-7150	\$142.95
CP-1172	08-00902	Reims/(Cessna): F172D,E, F172G,H, F172K,L,M, F172S	BrackettBA-5110,C294510-0301,P10-7150	\$139.95
CPE-1220	08-00720		Robinson C771-1	\$130.95
CPE-1104	08-01021	Robinson: R-22	Robinson A771-1,Brackett BA-110	\$185.55
CP-1150	08-00843	Socata, S.A. (Grumman): Cougar GA-7	Brackett B-120,FramCA146PL,A-134C	\$142.95
CP-1150	08-00843		Brackett BA-4106	\$142.95
CP-1150	08-00843		Brackett BA-4210, AMS13202	\$142.95
CP-1958 CP-1150	08-01022 08-00843	Tiger Aircraft/Gulfstream Amer.: TIGER AA-5B Univair: A-2, A2A (Forney) F-1, F-1A	Brackett BA-12, Fram CA-146PL Brackett BA-4106	\$184.90 \$142.95
CP-1150 CP-1150	08-00843	Globe/Swift: Swift GC-1A, GC-1B	Brackett BA-4106	\$142.95
01-1100	00-00043	GIODO/OWIIL GOTA, GOTD	DIAGNELL DA-4100	ψ142.90

NOTE: P/N CPE-1957, CPE-1040, CPE-1104, CPE-1151, CPE-1173, CPE-1202, CPE-1202, CPE-1956, CP-1175, CP-1958, CPE-1179, Require P/N CP-99-0704 sealing grease at install and must be purchased with filter. P/N 08-00723\$8.75 Recharge KitP/N 08-00722\$13.60

BRACKETT AIR FILTERS

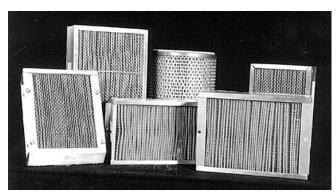




The specially treated polyurethane element in the Brackett filter assures near total protection from any foreign material entering the system. Repels water, fire retardant and has good air flow for proper fuel/air ratio. Has no pleats to collect dirt. Low-cost maintenance with increased engine life. FAA approved. Replace original air filter unit with a Brackett assembly. Thereafter, throw away element and replace with new one at minimal cost.

Aircraft Model	Air Filter	Assy	Element	Element	Aircraft Model	Air Filter	Assy	Element	Element
	Assy P/N	Price	Part No.	Price		Assy P/N	Price	Part No.	Price
Aero Commander: A9, A9A, A9B	BA-104	\$23.10	BA-3	\$11.95	Champion cont.				
100-100A	N/A	N/A	BA-8905	\$8.50	7ECAw/Cont.0-200-A,7ACA,7ECA,7FC,65CA	BA-4106	\$46.60	BA-4108	\$6.95
100-180,112,112A,112B	BA-3910	\$57.75	BA-3905	\$11.35	DeHavilland: DHC-2 (L-20)	BA-8210-1	\$78.50	BA-8205	\$23.50
112TC,112TC-A,114,114A	BA-4010	\$56.00	BA-4005	\$7.95	Great Lakes: 2TIA-2	BA-101	\$66.50	BA-8	\$9.40 \$20.75
500A-B,560F,680F,FL,FLP,500U	N/A	N/A	BA-151E	\$14.60	Helio: H295 Hiller: UH-12, UH-12-E	N/A	N/A	BA-21	
560, 560A, 560E, 680 Aircoupe: 415C, CD, D, E, G	N/A N/A	N/A N/A	BA-2605L&R BA-8805	\$17.60 \$7.35	Grumman American	BA-102	\$23.80	BA-2	\$14.60
F-1, A-1, A2-2	BA-4106	\$46.60	BA-4108	\$6.95	AA-1,AA-1A,AA-1B,AA-5,AA-1C,AA-5	BA-4210	\$44.80	BA-4108	\$6.95
Beech: 23, A23, A23A, A23-19	BA-4100	\$23.10	BA-4100	\$11.95	AA-5B-Tiger, GA-7, G164B	BA-120	\$21.00	BA-20	\$13.65
A23-19A, A-23-24, B23	BA-104	\$23.10	BA-3	\$11.95	AgCat, G164, G164A	BA-8210	\$83.25	BA-8205	\$23.50
C-23, C24R, A24R, B24R, B19	BA-7510	\$59.75	BA-7305	\$8.95	AA5A	N/A	N/A	BA-19	\$10.65
33, A33, B33, C33, E33, F33	BA-7110	\$58.50	BA-7112	\$11.50	Hughes: 269A,269A-1,269B-C	BA-102	\$23.80	BA-2	\$14.60
C33A,E33A,E33,F33A,F33C,G33	BA-7210	\$58.00	BA-7112	\$11.50	Lake: LA4, LA4-200	BA-3110	\$51.55	BA-7305	\$8.95
35, A35, B35 thru S/N2605	BA-7310	\$49.95	BA-7305	\$8.95	Luscombe: 8, 8A thru 8F, T8F	BA-4106	\$46.60	BA-4108	\$6.95
B35,C35,D35,E35,F35,G35,H35,J35	BA-7110	\$58.50	BA-7112	\$11.50	Maule: M-4-210T, M-5-210C	BA-111	\$62.00	BA-24	\$14.25
K35, M35, N35, P35, 35R	BA-7110	\$58.50	BA-7112	\$11.50	M-4-210,M-4-210C,M-4-210-S	BA-111	\$62.00	BA-24	\$14.25
S35 thru S/N D7671	BA-7410	\$59.25	BA-7112	\$11.50	MA-4, M-4C, M-4S, M-4T	BA-6110	\$58.00	BA-6108	\$7.65
S35, V35, V35A, V35B,36,A36	BA-7210	\$58.00	BA-7112	\$11.50	M-4-220, M-4-220C, M-4-220S	BA-6110	\$58.00	BA-6108	\$7.65
A36TC, B36TC, A45(T-34)	BA-7210	\$58.00	BA-7112	\$11.50	M-4-220T, M-4-180C, M-4-180S	BA-6110	\$58.00	BA-6108	\$7.65
B45((T-34A), D45(T-34B)	BA-7210	\$58.00	BA-7112	\$11.50	M-4-180T, M-5-220C, M-5-235C	BA-6110	\$58.00	BA-6108	\$7.65
W/STC SA1450 SW Cont.IO-520	BA-7210	\$58.00	BA-7112	\$11.50	M-5-180C, M-5-210C, M-6-180	BA-6110	\$58.00	BA-6108	\$7.65
50,B50,C50,D50,D50A,D50B,D50C,D50E	N/A	N/A	BA-4805	\$14.65	M-6-235, MX7-180, M-7-235	BA-6110	\$58.00	BA-6108	\$7.65
E50 (L-23D, RL-23D),F50	BA-100	\$78.00	BA-7	\$15.70	Mooney: M-10	BA-4106	\$46.60	BA-4108	\$6.95
55, A55, B55 G50, H50, J50	BA-7610 BA-100	\$56.50 \$78.00	BA-7605 BA-7	\$11.95 \$15.70	M-18C M20, M20A, B, C, D, G	BA-5110 BA-6110	\$39.95 \$58.00	BA-4108 BA-6108	\$6.95 \$7.65
C55, D55, E55, 355	BA-100 BA-6210-1	\$49.95	BA-6205	\$10.90	M20E, F	BA-6310	\$48.50	BA-6106	\$14.65
S/N TE768-1078 58 thru S/N TH 740	BA-6210-1	\$49.95	BA-6205	\$10.90	M20J	BA-6210	\$54.50	BA-6205	\$14.03
E55, 355A, SN TE-1079 & up	BA-7710	\$54.50	BA-7705	\$13.95	Navion A	BA-0210	\$32.20	BA-0203	\$12.95
58, 58A, SN TH741 & up	BA-7710	\$54.50	BA-7705	\$13.95	B. G. H	N/A	N/A	BA-4305	\$8.95
A65, 70, 65-B80, B88	BA-100	\$78.00	BA-7	\$15.70	Piper: 600, 601	N/A	N/A	BA-4	\$26.95
76	BA-7010	\$49.95	BA-7005	\$10.10	J-3,J-4,J5,PA-11,11S,12,12S,16,17	BA-4106	\$46.60	BA-4108	\$6.95
77	N/A	N/A	BA-6108	\$7.65	PA-18,19,20,115,135,PA-22-ALL	BA-4106	\$46.60	BA-4108	\$6.95
95, B95, B95A, D95A	BA-7810	\$54.95	BA-7805	\$13.75	PA-18-"150",18A-"150",18S-"150",18S-"150"	BA-112	\$47.50	BA-13	\$19.35
Bell:					SN18-6964 & up w/TCDS Item 110 Installed	BA-112	\$47.50	BA-13	\$19.35
47G-2,47G2A,47G2A-1,47G-3,47G-3B	BA-102	\$23.80	BA-2	\$14.60	PA-23,160,24-180 up to SN1476	BA-3110A	\$48.50	BA-7305	\$8.95
47G-3B-1,47G-3B-2,47G-3B-2A,47J,47J-2	BA-102	\$23.80	BA-2	\$14.60	PA-24-250 up to SN 1476	BA-3210	\$55.95	BA-3205	\$11.90
47J-2A,47G-3B,47G-3B,47G-3B-1	BA-102	\$23.80	BA-2	\$14.60	PA-23-235, 250, PA-25-235, 260	BA-104	\$23.10	BA-3	\$11.95
47G-3B-2,47G-4,47G-4A,47G-5,47J-2,47J-2A	BA-103	\$39.50	BA-9	\$16.95	PA-28-140, 150, 160, 180, 235	BA-104	\$23.10	BA-3	\$11.95
Bellanca: 14-19-3A, 17-30	BA-8110	\$63.75	BA-8103-1	\$13.95	PA-28-181, 201T, PA-28R-201T	BA-104	\$23.10	BA-3	\$11.95
17-30A Brantly: B-2, B-2B	BA-104 BA-104	\$23.10 \$23.10	BA-3 BA-3	\$9.95 \$11.95	PA-28RT-201T, PA-32-260, PA-23-250,E23-250,SN27 2505 &up	BA-104 BA-115	\$23.10 \$33.10	BA-3 BA-15	\$11.95 \$13.65
Cessna: 340,340A,402C,414,414A	BA-104 BA-109	\$49.70	BA-22	\$17.85	PA-23-250, E23-250, w/Turbo Lyc.	N/A	N/A	BA-15	\$16.95
402B,SN0801 & after,421,T310R	BA-108	\$52.25	BA-13	\$19.35	PA-23-250, L23-250, W/Tubb Lyc.	N/A	N/A	BA-8605	\$12.00
421A, 421B, 421C, T310R	BA-108	\$52.25	BA-13	\$19.35	PA-24-180 & PA-24-250 SN1477 &up	BA-104	\$23.10	BA-3	\$11.95
337,337A-H,R172K,F337E-H,336,T41B-D	BA-111	\$62.00	BA-24	\$14.25	PA-24-25 SN103-1476 w/Piper Kit 754-285 Install	BA-104	\$23.10	BA-3	\$11.95
P337, T337 Rear Engine, 172RG	BA-5810	\$62.43	BA-5805	\$12.40	PA-24-260 SN4000-4802 except 24-4783	BA-104	\$23.10	BA-3	\$11.95
R182, TR182, T-182, FR182	BA-2510	\$59.85	BA-2505	\$15.95	PA-32-300 SN76-40001&up	BA-104	\$23.10	BA-3	\$11.95
190, 195, 195A, 195B	BA-8410	\$75.00	BA-8405	\$22.10	PA-32R-300,PA-32RT-300,PA-32R-301	BA-104	\$23.10	BA-3	\$11.95
120,140,140A,150,150A-M,152,152A	BA-4106	\$46.60	BA-4108	\$6.95	PA-34-200T, 220T	BA-104	\$23.10	BA-3	\$11.95
170, 170A-M,172, 172A-M	BA-5110	\$52.50	BA-6108	\$7.65	PA-28R,201,PA-28RT-201,PA-28R	BA-105	\$27.50	BA-10	\$14.95
172N, 172P, F172N, F172P	BA-5110A	\$51.00	BA-6108	\$7.65	PA-28R-180,PA-28R-200,PA-44-180	BA-105	\$27.50	BA-10	\$14.95
175, 175A-C, L-19	BA-101	\$66.50	BA-8	\$9.40	PA-38	BA-4106	\$46.60	BA-4108	\$6.95
177, 177A, B, RG, F177RG	BA-5710	\$66.00	BA-5705	\$8.95	PA-28-151,161	N/A	N/A	BA-16	\$7.90
180 ('53-'55) 180A-K,182,182A-R,F182P,F182Q	BA-8010 BA-8110	\$49.95 \$63.75	BA-8005 BA-8103-1	\$8.40 \$13.95	PA-28-236 SN 28-7911283 & up PA30, with Ray Jay Turbo	N/A N/A	N/A N/A	BA-2905 BA-27	\$11.30 \$11.70
185,185A-E,A185E,A185F	BA-8110	\$63.75	BA-8103-1	\$13.95	PA31, PA-31-300, -310, -325,-350	BA-100	\$78.00	BA-27 BA-7	\$11.70
188. 188A	BA-114	φυσ.75 	BA-0103-1	\$14.95	PA-31P, 31P-350	N/A	N/A	BA-3305	\$13.70
205,205A,210,210A,B,C,310A,B,C,D	BA-2110	\$67.25	A-2305	Ψ14.55	PA-32-300 w/l0-540-K1A5	BA-115	\$33.10	BA-15	\$13.65
P206A-E, U206A-G, 207, 207A	BA-2210L	\$68.50	BA-2205-L	\$15.95	PA-32RT-300T	BA-100	\$78.00	BA-7	\$15.70
210D-N (to SN 64535 w/o air)	BA-2210L	\$68.50	BA-2205-L	\$15.95	PA-32-301T, 32R-301T	N/A	N/A	BA-7	\$15.70
210D-N (to SN 64535 w/o air)	BA-2210R	\$62.60	BA-2205-R	\$15.60	PA-34-200w/LYCI0360C01ES or LI0-360-C1E6	BA-105	\$27.50	BA-10	\$14.95
210N(SN645436 & up w/air),210R,T210F-N	BA-2410	\$59.95	BA-2405	\$25.40	PA-44-180T	N/A	N/A	BA-3505	\$16.95
310F thru L	BA-2310	\$76.75	BA-2305	\$13.95	Robinson: R22	BA-110	\$24.90	BA-23	\$15.95
F150GthruM,FA150K-L,F152,FA152	BA-4106	\$46.60	BA-4108	\$6.95	Stearman: All Series 75	BA-118	\$54.25	BA-18	\$24.95
R172K, FR172E-K	BA-111	\$62.00	BA-24	\$14.25	Stinson: 108, 108-1, -2 ,-3	N/A	N/A	BA-9105	\$8.80
TP206,TP206A-E,TU206A-G,T207,T207A	BA-2410	\$59.95	BA-2405	\$25.40	Swift: GC-1A, GC-1B	BA-4106	\$46.60	BA-4108	\$6.95
Champion: 7GC,7GCA,7GCBC,7HC	BA-104	\$23.10	BA-3	\$11.95	Taylorcraft	BA-4106	\$46.60	BA-4108	\$6.95
8KCAB,8GCBC,7KCAB,7GCBC,7GCAA	BA-8110	\$63.75	BA-8103-1	\$13.95	Varga: 2150A	BA-4106	\$46.60	BA-4108	\$6.95
7GCAA,7GCBC,7KCAB,8KCAB,7ECA	BA-106	\$25.40	BA-11	\$9.70					

AIR FILTERS



BEECH AIR FILTERS

Item	Our P/N	Beech Equivalent P/N	Aircraft Type	Our Price
1	08-00017	35-534470-19	Beech 33, 35	\$67.50
		P13-0374		
2	08-00018	P10-5304	Beech 33, 35, 36	\$67.50
		35-534470-19		
3	08-00019	P12-7996 (121128-2)	Beech 58	\$54.25
		TE946 thru TE1078		
		TH1 thru TH740		
4	08-00020	P12-8219 (122601)	Beech 55	\$51.25
5	08-00021	P10-8700	Duke B60	\$54.25
5A	08-00022	P12-4439	P Baron (58P)	\$54.25
		(50-389070-23)		
6	08-00023	P12-8167	Beech E55 & 58	\$61.75
		(96-389005-1)	Late Model	
		TE1079 & after		
		TE741 & after		
7	08-00024	169-380035-7		\$56.25

CESSNA AIR FILTERS

Item	Our P/N	Cessna	Aircraft Type	Our
		Equivalent P/N		Price
2	08-00000	C294510-0201	Cessna 150	\$51.50
3	08-00001	C294510-0301	Cessna 172	\$52.50
4	08-00002	C294510-0401	Cessna 172	\$57.95
4A	08-00003	C294510-0501	Cessna 172	\$57.00
			RG Cutlass	
5	08-00004	C294510-0601	Cessna 177	\$67.50
6	08-00005	C294510-0801	Cessna P210	\$72.25
7	08-00006	C294510-0901	Cessna 182RG	\$65.50
8	08-00007	0750038-4	Cessna 182	\$73.00
9	08-00008	1250704-3 (Port)	Cessna 206	\$107.95
	08-00009	1250704-4 (Stb)	& 207	
10	08-00010	1250846-1	Cessna T206 &T210	\$81.50
11	08-00011	C294510-0501	Cessna 337	\$61.25
12	08-00012	9910018-1	Cessna 300 Series	\$67.50
13	08-00013	9910018-2	Cessna 400	\$68.75
14	08-00014	9910200-1	Cessna 310-340	\$67.50
15	08-00015	9910141-1	Cessna 414 Series	\$77.50
16	08-00016	9913001-1 (108)	Cessna 402	\$75.25
			Late Model	

PLEATED PAPER AIR FILTERS

These pleated paper aircraft induction air filters are manufactured in South Africa and are fully approved by the South African Dept. of Transport, Division of Civil Aviation. Strict quality control standards are enforced at all stages of manufacture. The filters feature aluminum frames and cured EA131 pleated elements with 96% micron rating. Rubber gaskets are waterproof, oil solvent, and chemical resistant. Mesh overlays are of stainless steel for enhanced strength, durability, and appearance. Not FAA approved at this time.

MOONEY AIR FILTERS

Item	Our P/N	Mooney Equivalent P/N	Aircraft Type	Our Price
1	08-00025	125997-010	M20J	\$64.75
2	08-00026	125685-004	M20K	\$72.25

PIPER AIR FILTERS

Item	Our P/N	Piper Equivalent P/N	Aircraft Type	Our Price
1	08-00027	560-854 (P13-8602) 28-7911001 thru 28-7911282	Dakota PA28-236	\$65.95
2	08-00028	560-772	Tomahawk (PA38)	\$52.50
3	08-00029	124997-005	Navajo/Chieftain (PA31)	\$49.85
4	08-00030	13681-02	Tri-Pacer (PA22)	\$56.95
5	08-00031	560-947	Saratoga (PA32-301T)	\$102.95
6	08-00032	125196	Piper Turbo Aztec (PA23)	\$72.25
7	08-00033	CA161	PA28 & 32 Series (PA 36 Pawnee) (PA 34 Seneca)	\$61.75
8	08-00034	CA162	PA32 & PA23	\$61.75
9	08-00035	35477-00	PA28-161	\$52.25
10	08-00036	CA122	Super Cub (PA18)	\$55.00

SPORT CLASS AVIATION — HIGH FLOW OIL FILTER BY CHALLENGER AVIATION

These new high flow model HF-CX Sport Class Aviation oil filters have been designed to meet the special demands placed for engines used on non-certified sporting aviation aircraft, power gliders, and kit models. Challenger's HF-CX flows up to 25% more oil than current oil filters. Challenger's sport class filter's incorporate the lasted oil filter glass enhanced filter media to trap dirt from 4 to 22 microns. Microglass enhanced media also provides the added benefit of higher levels of dirt holding without increase flow restriction.

CURRENT APPLICATION: HD-CXS oil filters, part number CP-9124, replaces Rotax part number 825701. Engine models 912 UL, 912A, 912F, 912ULS, 914UL, 914F. P/N 08-09124\$15.10

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281
Prices Subject to Change Without Notice

ROTAX AIR FILTERS

Part No.	Engine/Carburetor	MFC P/N	Throat	Length	Dia.	Shape	Price
08-01273	Mikuni 32mm	RU0600	2-1/4"	3-1/2"	4"	Straight	\$25.95
07-00730	Mikuni 34mm	RU0800	2-7/16"	3-1/2"	4"	Straight	\$36.50
08-01274	Bing Single Carb. 36mm	RC1350	2-1/16"	3-1/4"	4"	Straight	\$41.70
08-01275	Bing Single or Dual Carb. 36mm	RC1200	2-1/16"	3-9/16"	4"	Tapered	\$29.95
05-01963	Rotax®447/ Bing Dual Carb. 32mm (2 req.)	RU2690	1-3/4"	3"	2-1/2"	Tapered	\$36.00
08-01276	Rotax® 503/Bing Dual carb. 36mm (1 filter covers both)	RU2790	3-1/2"	4-5/8"	4-1/2"	Tapered	\$26.50
08-01277	Rotax® 532/582 Bing Dual carb. 36mm (1 filter covers both)	RU2790	3-1/2"	4-5/8"	4-1/2"	Tapered	\$26.50
08-01278	Rotax® 503/532 Aerobatic carb.	RU2790	3-1/2"	4-5/8"	4-1/2"	Tapered	\$26.50
08-01279	Rotax® 912 Offset	RA045V	2"	5-7/8"	2"	Round Offset	\$34.40
08-01280	Rotax® 914 RD. Center	RU0810	2-7/16"	3-1/2"	5"	Round Centered	\$26.60



AIR-MAZE AIR FILTERS

Filter for Continental for A-65 thru C-125*P/N A40599\$67.25 Filter for Lycoming O-235, O-290, some O-320 (advise aircraft application)P/N A40599\$67.25P/N 2-849.....\$68.75 Aeronca 7AC, 11AC.....

*FOR NEW INSTALLATION - P/N 24306 & P/N 24308 ARE REQUIRED

K&N AIR FILTERS

Our K&N Filters are the industry standard in excellence. All filters are constructed with ultra-strong molded pliable rubber flanges which absorb vibration and provide secure attachment. These flanges can be stretched up to 1/8" (3mm) to fit in-between sizes. K&N Universal air filters are available in round, tapered, and oval designs, to fit just about any application. Use the dimensioned sketch and the selection chart to find the filter best suited to your application.







Part No.	Application	Throat	Length	Dia.	Style	Price
08-01053	Rotax®/Bing 36mm	2"	2"	5-3/8"	Round Straight	\$32.70
08-01273	Mikuni 32mm	2-1/4"	4"	3-1/2"	Round Straight	\$25.95
07-00730	Mikuni 34mm	2-1/2"	3-1/2"	4"	Round Straight	\$36.50
05-01953	Kawasaki/Mikuni 32mm	2-3/4"	3"	5"	Round Straight	\$36.70
05-01963	Rotax®/Bing 32mm	1-3/4"	3"	2-1/2"	Tapered	\$36.00
08-01274	Rotax®/Bing 36mm	2-1/16"	4"	3-1/4"	Round Straight	\$41.70
08-01275	Rotax®/Bing 36mm	2-1/16"	4"	3-1/2"	Tapered	\$29.95
05-04981	Mikuni 32mm	2-1/4"	4"	3-1/2"	Tapered	\$41.30
05-01961	Rotax® 532/582 Dual Carbs	2-1/16"	8-1/2"	3"	Dual Oval	\$48.00
08-04976	Rotax® 503 Dual Carbs	2-1/16"	8-1/2"	3"	Dual Oval	\$48.00
05-01958	Rotax®/Bing 36mm	2-1/16"	2-1/2"	3"	Round Straight	
05-01959	Rotax®/Bing 36mm	2-1/16"	3"	3"	Round Straight	\$44.80
05-01954	Rotax®/Bing 36mm	2-1/16"	3"	3-1/2"	Round Straight	\$45.60



K&N AIR FILTER CLEANER & DEGREASER



This is the only cleaner formulated to clean K&N Filtercharger elements. The use of any other cleaning solution will void the filter's warranty, and quite possibly could damage the cotton material. K&N Cleaner works to dissolve the dirt build-up and old filter oil, and can be washed away with water. It is biodegradable and safe on paint, chrome, cast aluminum, plastic, rubber, and vinyl when used as directed. Complete instructions on the bottle.

NOTE: Do not use on polished or anodized aluminum. 12-fluid oz. squirt bottle.....P/N F99-0606....\$8.50



K&N FILTERCHARGER OIL

K&N Air Filter Oil is the only oil specially formulated to work in combination with the cotton fabric in K&N Filtercharger elements, providing a superior air filtration system. When used as directed, it quickly penetrates the filter pleats, where it remains sus-

pended in the cotton fabric. Saturation is maintained until the element is cleaned with K&N Air Filter Cleaner.

6.5 oz. aerosol can - redP/N F99-0504\$	7.60
8 oz. squeeze bottle - red P/N F99-0533\$	6.60



VARIEZE / LONG EZ AIR INTAKE FILTER

NAPA #2904 air intake filter (equivalent to Purolator #AFP-177 & AC #44-8C)

P/N 2904\$12.40



K&N SEALING GREASE

K&N Sealing Grease provides an airtight fit around sealing surfaces on all types of air filter elements. It

resists heat and will not melt or run off. Not to be used on clamp-on filter elements.

8 oz. squeeze tube - black......P/N F99-702......\$7.60

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JANITROL HEATERS

RAJAY TURBOCHARGER UNITS



Call Aircraft Spruce for quotation on all Rayjay turbocharger units, controllers, scavenge pumps, and valves. STC's Rajay Turbocharging kits are available for certified and experimental aircraft such as Mooney, Piper, Cessna, Beech, Lancair, and Vans. Kits includes new exhaust system, turbocharger, scavenge pump, fuel pump, induction air box, and the hoses, valves, and fittings needed for installation.

TOPCAP ENGINE PROTECTOR





Install TopCap in place of a removed cylinder to protect th engine from dirt, debris, and stray parts. Made from fuel and solvent resistant polymer, TopCap allows for full crankshaft rotation. One size fits Lycoming wide deck 320, 360, 540, 720 and Continental 470, 520, and 550 P/N 08-00373 **\$24.50 /pr**.

ENGINE SAVER

Every aircraft owner knows that his engine is subject to moisture build up and internal rust formation when not flown regularly. Oil companies spend millions developing special additives to minimize rust. Now . there is a better way to fight this rust! The Engine saver produces a continuous supply of very low humidity air that is introduced into the engine throught the breather. Low humidity air

prevents water formation in the engine. The slight pressure built up keeps the moist outside air from entering, allowing the dry air to flow past the piston rings into the upper cylinder area protecting it as well. The Engine Saver is 110vac powered, requires no installation or FAA approval, and works with all piston engines. Pilots are flying less and the Engine Saver will save them money by reducing maintenance costs. P/N 08-00724.....**\$279.95**



HEATER KART HOSE KIT

Great for maintenance, avionics and interior shops. Simply put the hose in the cabin and you have a heated workspace. Work on avionics in the winter without your fingers going numb. Work with interior upholstery and plastic trim without it getting cold

& stiff. Features: • Pre-heat your engine • De-Ice your aircraft • Heat P/N 13-03151**\$119.95** the cabin & cockpit



AIRCRAFT HEATER KART

A powerful blower draws in the hot air from your kerosene heater and blasts it out at high pressure and velocity. The adjustable discharge nozzle allows you to aim the hot air up into your engine cowling from below. The hot air naturally flows up and around the engine. The blower moves so much air that a tight seal with the cowling is not needed. Just roll the heater into

position, turn it on and do your pre-flight. Features: • Use your kerosene shop heater (55,000 max. recommended BTU) • Preheat your engine before starting • No need to bring your aircraft into a heated hangar to pre-heat • Quick & Easy to use • Does not touch your aircraft: no special fitting required, no bumps & scratches • Adjustable discharge nozzle to aim the hot air where you need it • Kart has 2 large pneumatic tires • FBOs can offer engine pre-heat and cabin pre-heat services • Use the blower alone in the summer for P/N 13-03150**\$307.95** a cooling blast of air.

JANITROL HEATERS

Our Janitrol heaters, rebuilt right at the factory Janitrol Heater Products, a division of Kelly Aerospace feature new CermaKote combus-

tion tubes and a more efficient, lightweight permanent magnet blower motor. These heaters are rebuilt to factory new tolerances and upgraded to the latest model configuration with a new serial number. These heaters are not affected by FAA AD Note 96-20-07. Three year, 1000 hour limited warranty, 1500 hour TBO.

JANITROL HEATER CERMAKOTE **COMBUSTION TUBES**

Janitrol Heater Products, division of Kelly Aerospace produces extended life "CermaKote" combustion tubes for individual sale. The 'CermaKote" combustion tubes incorporate a special process to coat the areas susceptible to flame erosion. The FAA/TSO approved OEM combustion tube is engineered to provide years of safe operation through improved materials designed to better withstand the high temperatures and corrosive environment inside your heater. This product improvement will greatly decrease your routine heater maintenance cost and give you the added assurance that your heater is being maintained with the highest quality parts on the market today!

FACTORY NEW LYCOMING ENGINES FOR STARDUSTERS

Engine Model	Application	Weight	Part No.	Price*
O235-N2C	SA500	218	01-00491	\$18,864.00
O320-D1A	SA900,SA100	244	01-00494	\$21,874.00
O320-D1A	SA300,SA900,SA100	255	01-00495	\$27,163.00
O360-A1A	SA300, SA100	265	01-00496	\$23,154.00
O360-A1B6	SA300,SA101,SA750	265	01-00497	\$37,595.00
IO360-A1B6	SA300,SA101,SA750	265	01-00498	\$36,107.00
IO540-C4B5	SA300, SA750	375	01-00499	\$42,569.00
IO540-D4B5	SA300, SA750	381	01-00501	\$43,995.00



NEW LYCOMING ENGINES FOR ONE DESIGN/DR-109

As the exclusive distributor for One Design aerobatic aircraft kits, Aircraft Spruce is an authorized Lycoming factory distributor for the One Design/DR-109 engine. This engine is configured to

exact specifications provided by Rihn Aircraft and is the only Lycoming model specifically recommended for use on the One Design/DR109 for optimum performance.

AEIO-360B1H Engine (for DR-1)	07)P/N 01-00165	\$28,609.00
AEIO-360-A1E6 (for DR108/109)P/N 01-02334	.\$32,278.00
AEIO-540-D4A5 (for DR108/109)P/N 01-02400	\$44,048.00
AEIO-540-L1B5 (for DR108/109))P/N 01-02405	\$51,038.00



NIGHTHAWK™ NH100-AIR

The NH1-Air allows you to activate and deactivate the power to your aircraft engine preheating system utilizing a proprietary technology that combines the convenience of paging with the reliability of microprocessor control. The 15

amp/120V AC power output located on the NH1-Air is remotely activated to turn aircraft engine blocks "on" or "off", from the convenience of home or office. This allows for the ultimate means of off-site control for preheating functions in advance of flight times. Valuable time is saved in the day prior to take-off for other priorities. The NH1-Air uses paging services to reliably activate virtually worldwide. No telephone line installation or cellular phone activation is required. Simply dial a preassigned "pager" number, type in a pre-assigned 4-digit access code and the NH1-Air remotely activates or deactivates the power to your engine block preheating system. The NH1-Air is the simple, reliable, and cost effective alternative for activating or deactivating remotely located aircraft engine pre-heaters.

P/N 11-03304\$450.00

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283

LUBRICANTS – GASKETS – DEGREASERS

REAL GASKET PUSHROD TUBE SEALS

These seals from Real Gasket Tennessee provide 37% more sealing area at the point of contact with the pushrod tube, and vector spring pressure by its beveled top and companion washer. FAA Approved for the Continental engines shown below.

	Part No.	Application	Kit Price
ſ	RG-360PR	IO/TIO-360 complete engine*	\$62.50
١	RG-360PR-1	IO/TIO-360 single cylinder**	\$10.95
١	RG-520PR	0/IO-470, IO-520, IO-550A,B,C***	\$108.95
١	RG-520PR-1	As above except single cylinder	\$20.10
١	RG-550GPR	IO-550-G complete engine	\$68.75

*6 cylinder kit

**1 cylinder kit

***3 cylinder kit

REAL GASKET PUSHROD TUBE CONVERSION KITS FOR CONTINENTALS

These kits from Real Gasket Tennessee replace problematic pushrod tubes of continental engine models: A-65, A-75, C-75/85/90/125/145, 0-200, 0-300 and GO-300. The installation does not require loosing or removal of the cylinder and converts it to an "independently serviceable" spring loaded pushrod tube system, similar to IO-470, IO-520, and IO-550 continental engines. It also allows access and service to the lifters. The kit is designed for easy installation and uses real gasket's FAA-PMA pushrod tube seals as used in the continental IO-470, IO-520 and IO-550 engines. For certified aircraft engines, form 337 is required.

\$78.75	08-00802	P/N	1-cylinder kit
\$289.95	08-04444	P/N	4-cylinder kit
\$435.95	08-44444	P/N	6-cylinder kit

REAL GASKET FRANKLIN ENG. PARTS

RG-17794-S/12	Pushrod Tube Seal	08-00779	\$3.80
RG-17864-S/12	Pushrod Tube Seal	08-00780	\$41.20
RG-10366	Oil Pan Gasket	08-00781	\$31.20
RG-17794-S/12	Valve Cover Gasket	08-00782	\$10.75
RG-17794-S/12	Crankcase Cover Gask	et 08-00783	\$38.95

FAA Approved

Prymatect 1372 1372 FRMI-A GASKET

PERMATEX HI-TEMPERATURE SEALANT



PERMATEX FORM-A-GASKET NO. 1

Seals and repairs a wide range of gaskets. Fills in uneven flanges surfaces. Seals pipe fittings, air ducts, boilers, plumbing connections and threaded assemblies. Dries fast, sets hard for sealing permanent or rigid assemblies. Easy to apply. Improves gasket sealing power, adds reliability to rigid or permanent assemblies. Eliminates delays.

3 oz., Tube, #1B....P/N 09-28415\$3.25 11 oz, Tube, #1C ..P/N 09-28430\$8.40



PERMATEX FORM-A-GASKET NO. 2

A non-hardening, heavy-bodied, pliable sealant for semipermanent assemblies. Use on threaded assemblies, over plates and hose connections, metal-to-metal applications. Temperature range -65° to 400° F., pressures up to 5000 PSI. Apply with putty knife or stiff bristle brush. Conforms to MIL-S-45180B Type II.

3 Oz. Tube #2BP/N 09-28420 **\$3.75** 11Oz. Tube #2CP/N 09-28400**\$8.40**



AVIATION FORM-A-GASKET NO. 3

A non-hardening sealant. Recommended for heating hose connections, close fitting metal parts and threaded connections. Resists water, gasoline, acids and alkalies. Temperature range -65° to 400°F., pressures to 5000 PSI. Conforms to MIL-S-45180B, Type III.

4 Oz. Can #3HP/N 09-28500\$6.80 1 Pint Can #3D......P/N 09-28600\$9.70

WILLDYNE CONTINENTAL MOIOS Allered Products

BENDIX MAGNETO GREASE

#10-27165 - Factory recommended lubricant for bearings in Bendix magnetos.

1 Lb. Can ..P/N 10-27165......\$39.20

#10-391200 - Grease for AD Note on 1200 Series magnetos. 1 Lb. Can ...P/N 10-391200.....\$38.70 1 oz. tube ...P/N 07-02500........\$3.95

#10-39140-0 - Distributor block bushing coating

P/N 10-39140-0 **\$101.65**

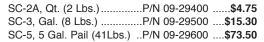
#10-86527 - High temperature breaker/cam lubricant

P/N 10-86527.....\$25.20



GUNK SUPER CONCENTRATE DEGREASER

A concentrated self-emulsifying degreasing solvent for engine and parts. Dilute one part concentrate with nine parts of kerosine or light Diesel fuel oil for very effective cleaning. Spray or brush on. Does not harm electrical system, strip paint or cause rust. Water rinse.





GUNK "ENGINE BRITE" ENGINE CLEANER

Ready-to-use engine cleaner in convenient aerosol or squirt can.

EB-1, 16 Oz. AerosolP/N 09-29700\$3.25



GUNK HYDRO-SEAL

Two-layer room temperature carbon digester and paint stripper. Cleans <u>clean</u>. No flash point. Safe on all metals. Simply soak and pressure rinse or solvent rinse. 5 gal. pail contains parts soaking basket.

HS-3, 1 Gal. Can (11 Lbs.).......P/N 09-29900**\$23.30** HS-5K, 5 Gal. Pail w/ parts basket (Wt. 56 lbs., truck shipment req'd) P/N 09-30000**\$99.50**

Factory-direct shipment on 50 gal. drums of Gunk and Hydro-seal. F.O.B. Charlotte, N.C.



TITESEAL

Prevents corrosion and seizing of metal parts. Assures leakproof, pressure tight connections. Unaffected by water, oil, gasoline.

Light Wt., #T20-66, 1 Lb. CanP/N T20-66**\$10.95** Medium Wt., #T25-66, 1 Lb. Can ..P/N T25-66**\$10.50**



MARVEL MYSTERY OIL

Standard for break-in on new or overhauled engines and for carbon removal from cylinder heads, piston rings, valves, etc. Mix with regular oil for perfect engine operation to -20°F. Lubricates tight nuts, control hinges and landing gear. Dust repellent.

	4 oz. #012	P/N	09-27515	\$2.20
FLAMMABLE	Qt. #013	P/N	09-27500	\$5.95
		P/N		



MOUSE MILK OIL

For speedy help in removal of rusted or frozen studs, nut and bolts; frees up cables, slides and linkage; unequalled wherever a lubricant and penetrant are required. Lasting lubricating qualities.

_			
	8 07	P/N 09-39608	\$5.25
FLAMMABLE	0 02.	/14 00 00000	
	32 Oz	P/N 09-39632	\$17.70

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284

Prices Subject to Change Without Notice



ENGINE PREHEATERS

RED DRAGON ENGINE PREHEATERS



For quick engine starts in cold weather. Propane heated air is blown directly into engine compartment by a 12V fan (can be used to heat cabin, thaw ice or warm hanger).12V comes from either plane or car battery with no appreciable electrical drain. Easy-to-operate

electric igniter allows you to ignite heater with a push of a button. Entire unit weighs only 14 lbs. 100% safety control stops fuel flow should flame go out. Complete with 5ft. of pressure propane hose, excess flow valve, regulator, safety control and 10ft. power cord with alligator clips to attach to battery. All UL approved. Now includes high limit safety control package - provides total protection from over-heat situations and will effectively shut down fuel upon an over-heat situation. Use standard propane bottles.

MODEL MH300P/N 08-04300\$313.95

MODEL MH310 - This model is the same as MH-300 except it uses 115 VAC to power the fan. Wt: 17lbs......P/N 08-04305**\$323.95**

RED DRAGON ACCESSORIES

Heat Ducting - 12' long x 4" diameter; Heavy-Duty Flexible Ducting.

P/N 08-04310\$83.00
6'Lx4" Dia. Heavy-Duty Flexible Ducting.....P/N 08-04325\$46.40
Carrying Case - Strong Plastic Case w/lock, for model MH300.
size: 20.25" x 9.5" x 9.5"P/N 08-04320\$42.85
12V Cigarette Lighter Adapter PlugP/N 08-04330\$16.95
Propane Quick Disconnect set - For Rapid Connect & Disconnect of
Fuel Line from Propane Bottle w/o Tools (even under pressure)

P/N 08-04340\$17.20

Propane Bottle - Std. Refillable Bottle (5 Gal. Cap. or 20 Lbs.) Supplies Minimum of 2 Hours of Heating. (Empty).....P/N 08-04351\$41.80

DESIGN LOGIC ENGINE PREHEATERS



Constructed of solid aluminum, DESIGN LOGIC, Inc. preheaters are known for their dependability, performance, and overall value. An improved design saves time and money by allowing easy transfer to other engines or reinstallation after overhaul. Ea. 08-04425 kit includes 2 adapter plates, 1 flat and 1 curved (curve fits Continental sumps). The applicable adapter plate is simplete. This assembly is then adhered to the

ply screwed to the heater plate. This assembly is then adhered to the engine sump with thermally conductive adhesive (included). When necessary to remove the preheater, simply remove 4 screws!

Specifications: 330W (08-00425) or 220W (08-00372). Thermostatically controlled 170°–200°F. Thermal fuse to prevent overheating should thermostat fail and heater become dislodged. FAA/PMA approved for over 600 engines. 2-yr, no hassle warranty.

Application:Lycoming (except as below), Continental (except kidney shaped), Franklin, Garrett, & Marathon.2-yr. warranty.Size: 4-3/8"x 5"x 5/8" (7/8" w/curved plate)P/N 08-04425..........\$219.00

Application: Lycoming IOs w/air intake on bottom (IO 360A1A, for example); for engines where a smaller footprint required; typically mounts on side of sump. 2-yr warranty. Size: 4-3/8"x 2-3/4"x 5/8"

P/N 08-00372**\$199.00**

KENNON INSULATED ENGINE BLANKETS



Kennon's insulated engine covers are custom made fro the specific year, make and model of aircraft for a a snug fit. Kennon makes it own engine blanket material using a bonded fiberfill that doesn't need to be quilted to stay in place, which can destroy the loft and put thousands of needle holes in the cover where heat can escape. The outer shell is made form red blue

escape. The outer shell is made form red, blue, or black polyester rather than nylon, increasing the useful life of the cover and the inner layer is fluorescent orange which can be used as a signaling device in the event of an emergency. Flaps for oil doors to check or fill the oil and cowling inlet flaps for preheating purposes can be added for \$10 each. Insulated prop and spinner covers are also available.

2-Seat A/C (sml)07-00983\$289.95	4-6 seat A/C (reg.) 07-00984 \$319.95
Twin Eng. A/C07-00985\$684.95	Spinner Cover07-00987\$49.00
Prop Cover07-00988\$29.00	Cessna 20707-00990 \$484.00
Cessna 20807-00991\$484.00	Piper Malibu07-00992 \$484.00
Dehavilland Beaver07-00993\$484.00	Beech B1807-00994 \$898.00

E-Z HEAT AIRCRAFT ENGINE PREHEATER



Preheating engines for winter operations is at best a miserable chore and at worst can be a disaster for the plane, the pilot & flight operations. E-Z Heat Preheaters feature easy peel & stick application. 7 models are available. Efficient engine heating for virtually all propeller driven aircraft. The heaters consist of a flexible synthetic pad that easily conforms to the contours of the oil pan. Heat 12 qts of oil from -40° to +60°F in an hour while using

approximately 300 watts of electricity. The heater is 1/32" thick enable immediate heat transfer from heater to engine. The heaters are thermostatically controlled, so leaving them plugged in overnight means the plane will be ready to go in the morning. Pre-heating normally takes 3-5 hours for the entire engine to be nice and warm. The Lite Brite power cord is included on all 110V E-Z Heat pre-heaters. Molded into the male plug end is a newly designed light emitting diode (LED). This LED allows the operator to visually recognize if there is electrical power to the preheat system even from a distance. **FAA Approved** for certificated aircraft. 2 year "No hassle" warranty. Model 441 and 540 also available in 220 volt.

P/N	Application	Factory P/N	Price
07-05315	Cont. A-65 to 0-200	360	\$139.95
07-05100	Cont. C-125 to 0-300, E-165 to E-225, IO-360 to TI0-360 Lyc. 0-235, 0-290, 0-320*	440	\$139.95
07-05200	Cont. 0-470, I0-470, 0-520, I0-520 I0-550 Lyc. 0-320*, 0-360, I0-360, 0-540, TI0-540C, D	441	\$139.95
07-05210	Lyc. IO-360A & C Series	442	\$139.95
07-05345	Cont. 0-470, 10-470, 0-520, 10-520 10-550 Lyc. 0-540, TIO-540 (except C), 10-720	540	\$164.95
07-05200-2	Model 441 - 220Volt	441-2	\$139.95

Except H and Rear Carbs



REIFF HOTPADD ENGINE PREHEATERS

Easy to install. Simply bond it to the oil sump. Has thermostat and is externally grounded for safety. No STC is required. Heats 12 qts of oil in 1 hour, and heats entire engine in 3-4 hrs. 125-300W, 110VAC. 2yr warranty. FAA/PMA Approved for Cont. A-65,

A-75, A-80, C-90, 0-200, I0-240. P/N 08-04410.......\$169.00

REIFF HOTSTRIP OIL SUMP HEATERS



HotStrip is thin and lightweight like a silicone pad, but made of steel for maximum durability. Works either as a stand-alone sump heater or integrated with the Hot Band Cylinder Heating Systems. Bonds to the bottom or side of oil sump and electrically heats the oil. Features dual heating elements for redundancy. System includes two 100W elements thermostat, and power cord. **FAA Approved for:**

Lycoming 0-235; All 290, 320, 360 series; All 435, 480, 540, 541 series; **Continental** IO-346; All 300, 600 series; E-165, E-185, E-225, All 470, 520, 550 series. P/N 08-00688.......**\$169.00**

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285

PEAG

OIL FILTERS - OIL SYSTEMS

CHAMPION SPIN-ON OIL FILTERS

	AIRCRAFT MODEL	FILTER P/N
Beech	E33, F33, A35 thru S35	CH48109-1
Cessna	120, 140, 170, 172, 180 182, 185, 205, 210, 310	CH48110-1
Mooney	M20, M22	CH48110-1
Piper	PA-18, PA-22, PA-23, PA-24, PA-25, PA-28, PA-30, PA-31, PA-34, PA-60	CH48110-1





CH48110-1 - CH48111-1

Filter Our Filter Our P/N P/N **Price Price** CH48103 \$17.25 CH48109 \$17.25 CH48104 \$17.25 CH48110 \$17.25 CH48108 \$17.25 CH48111 \$17.25

KELLY AEROSPACE OIL FILTERS

FAA/PMA approved for Lycoming & Continental Engines • Hex Nut and Safety wire tabs for ease of installation & removal • Heavy duty corrosion resistant aviation grade shell • Pleated resin-impregnated filtering media providing maximum filtering surface and removes harmful contaminants · Double roll seam provides leak proof assy of lid and shell

Kelly P/N	Part P/N	Engine Model	Price
ES48103	08-00968	O-320, IO-320, O-360, IO-360, LO-360, TO-360,HIO-360,LTO-360,LHIO-360 Series	\$12.65
ES48104	08-00969	O-320, IO-320, O-360, IO-360, LO-360, TO-360,HIO-360,LTO-360,LHIO-360Series	\$12.65
ES48108	08-00970	6-285, IO-346, IO-360, TSIO-360, LTSIO-360, O-470, IO-470, LIO-470, TSIO-470, IO-520, TSIO-520,GTSIO-520,LTSIO-520,IO-550 Series	\$12.65
ES48108	08-00970	6-285, IO-346, IO-360, TSIO-360, LTSIO-360, O-470, IO-470, LIO-470, TSIO-470, IO-520, TSIO-520, GTSIO-520, LTSIO-520, IO-550 Series	\$12.65
ES48110	08-00972	O-235,IO-320Series LIO-320,AIO-320,AEIO-320, O-360,IO-360,AIO-360,HIO-360,LIO-360,TIO-360, LHIO-360, AEIO-360, O-540, IO-540,HIO-540, TIO-540,AEIO-540,LTIO-540,TIO-541,IO-580,IO-720 Series	\$12.65
ES48111	08-00973	O-235, IO-320Series LIO-320, AIO-320, AEIO-320, O-360,IO-360,AIO-360,HIO-360,LIO-360,TIO-360, LHIO-360,AEIO-360,O-540,IO-540,TIO-540,TIO-540, AEIO-540,LTIO-540,TIO-541 IO-720 Series	\$12.65

FM ENGINE MOUNTED OIL FILTER ADAPTER

FM engine mounted oil filter adapters eliminate the need for oil screens and provide increased filtering capabilities for longer engine life. Being engine mounted with no external lines, they reduce mess during oil changes and increase the time between oil changes. Includes adapter, filter, gaskets and STC.

FM Model	Aircraft Application	Engine Application	Part No.	Price
T.A.FL	Cont. C-75-12 C-85-12, O-200, O-200A	Cessna 120,140 150, Aerocoupe, Luscombe 8E Piper PA-11,J3,J5	08-00631	\$207.95
CO-300	Cont.C-125, C-145, CO-300	Cessna 170, 172 Globe Swift, Maule	08-00632	\$295.95
C6LC-S	Cont.O-470 IO-470, IO-520	Bellanca Viking, Cessna 180,182, 185 188 and 55 series Beech Baron	08-00633	\$383.95
C6LC-L	Cont.O-470 IO-470, IO-520	Cessna 205, 206, 207, 210,310, Beech Bonanza & Debonair, Navion, Meyers, Twin Commander,Widgeon	08-00634	\$383.95

AIRWOLF REMOTE MOUNTED OIL FILTERS FOR LYCOMING ENGINES

The remote mount oil filter kit by Airwolf Filter Corp. replaces the Lycoming oil screen and housing allowing every aircraft to have an oil filter and to locate it on the firewall where it's easy to get to. The adapter takes up no more space on the engine than the original part, so even the tightest installations can benefit from it. Your Vernatherm & oil temp bulb are reused and transfer directly to our adapter. Hoses not included.

NOW AVAILABLE... STC'D KITS FOR PRODUCTION AIRCRAFT.

Universal STC'd kit fits any Lycoming powered Single/Multi engine airplane less than 450hp. All other STC'd for specific aircraft. Perfect for Tight Installations in: • Beech • Cessna • Cozy MK-IV • Glasair • Grumman • Lancair • Long EZ • RV • Skybolt • T-18 • Vari-EZ • Velocity • Mooney · Piper · Maule · Avion · Aeronca · Bellanca · Pitts Fits Lycoming Series: 0-235,290,320,340,360,&540 series engines • Full Flow • Easy To Install • Extends Engine Cooling • Total Weight under 4 Lbs • FAA/PMA Approved • Change oil in minutes not hours.

P/N	APPLICATION	PRICE
08-00038	Lycoming filter relocation kit (Requires existing Lyc p/n77852 Spin-on adpt)	\$464.95
08-00039	STC'd Pratt & Whitney R985 Kit	\$795.00
08-05605	Lycoming Homebuilt kit (less hoses)	\$473.95
08-05635	STC'D Husky kit	\$778.00
08-05630	STC'D Super Cub kit	\$678.95
08-05660	STC'D Universal Lycoming kit (fits all Lycoming engines using the 4 bolt oil screen housing on rear of accessory case.)	\$476.95
08-05665	STC'D Lycoming kit (fits all w/Single Drive, Dual Magneto Engines)	\$450.00
08-05670	STC'D Lycoming kit Fits All IO-720 Engines	\$575.00
08-05675	STC'D Universal Continental kit (fits A50, A65, A75, A80, C75, C85, C90, C125, O-200, & IO240 Engines)	\$464.95
08-05680	STC'D Cont. kit (fits C145, O300, GO300, & IO360A,C,D,G,H,J,K)	\$476.95
08-05685	STC'D Continental kit (fits all O470, IO470, IO520, TSIO520, GTSIO520, & IO550 Engines (except below)	\$474.00
08-05690	STC'D Continental kit (Fits O470-11 & -15 Military Engines Used on T34 & Cessna 305 Birddogs.)	\$618.75
08-05700	STC'D Continental kit (Fits E-165, E-185, E-205, E-225)	\$476.95
08-05800	STC'D Continental kit (Fits TIO360, IO520BA, C, M, TSIO520 B, D, E, J, K, L, N, U, BE, VB, WB & IO550B, C Engines)	\$476.95
08-05805	STC'D Continental kit (Fits W-670 Radials (Stearman)	\$476.95
08-05810	STC'D Continental kit Fits W-670 Radials (Waco)	\$476.95
08-05815	STC'D Franklin Oil Filter Kit	\$795.00
CH48108	Replacement filter standard length	\$17.25
CH48109	Replacement filter long	\$17.25

REMOTE MOUNT OIL FILTER KITS FOR RADIAL ENGINES

Twin-filter system for larger multi-bank radial engines of 2,000 cubic inches displacement and above. The "Super Gorilla" filter system, the first STC'd for piston

powered airplanes with engines of as much as 3,000 horsepower, has a measured flow capacity of 40 gal. per min. The gorilla kits attach to the tubular engine mounts or the firewall

Model	Description	Part No.	Price
AFC-K015-A	P&W R985 Kit, Stearman	08-00995	\$695.00
AFC-K015-B	P&W R985 Kit, Beaver	08-00039	\$795.00
AFC-K015-C	P&W R1340 Kit, T-6/Harvard	08-00996	\$795.00
AFC-K015-D	P&W R1830 Kit, DC-3/C-47	08-00997	\$995.00
AFC-K015-E	R985 Kit,Beach-18,Staggerwing, DGA-15	08-00998	\$695.00
AFC-K015-F	P&W R1340 Kit, Otter	08-00999	\$795.00
AFC-K015-G	P&W R985/1340 Kit, Ag-Cat	08-01001	\$795.00
AFC-K015-H	P&W R1340 Kit, AT301/401/501	08-01002	\$795.00
AFC-K015-J	R1340 Kit, Thrush/S2D (Snow)	08-01003	\$795.00
AFC-K015-L	P&W R985 Kit, Grumman Goose	08-01004	\$695.00

TEMPEST OIL FILTERS

This full size filter design incorporates several features, including thickest can and base plate with full weld integrity, highest burst pressure rating, and magnetic secondary filtration system that attracts steel particles too small to be filtered in the media. FAA approved.

Our Part No.	Price	Filter No.	Our Part No.	Price
08-01266	\$14.95	AA48109	08-01269	\$14.95
08-01267	\$14.95	AA48110	08-01270	\$14.95
08-01268	\$14.95	AA48111	08-01271	\$14.95
	08-01266 08-01267	08-01266 \$14.95 08-01267 \$14.95	08-01266 \$14.95 AA48109 08-01267 \$14.95 AA48110	08-01266 \$14.95 AA48109 08-01269 08-01267 \$14.95 AA48110 08-01270

SPIN-ON OIL FILTER - SIX PACK

Part No.	Tempest	Price	Part No.	Tempest	Price
08-04969	AA48103-6PK	\$79.00	08-04972	AA48109-6PK	\$79.00
08-04970	AA48104-6PK	\$79.00	08-04973	AA48110-6PK	\$79.00
08-04971	AA48108-6PK	\$79.00	08-04974	AA48111-6PK	\$79.00

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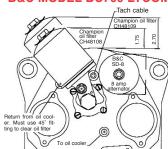
286

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OIL FILTERS ADAPTERS — OIL DRAIN VALVES

B&C MODEL BC700 LYCOMING OIL FILTER ADAPTER



This 90°, spin on oil filter adapter is FAA approved for replacement of existing oil pressure oil screens or spin-on filter adapters on spin-on filter adapters on Lycoming 0-235; O, IO, LIO, AIO, Lyconning of 293, O, 10, ElO, AlO, AlO, AEIO-320; O, IO, LIO, HO, HIO, HIO, TIO, AEIO-540 & IO-720 series engines. It is CNC milled from solid aluminum billet and fits perfectly without interference with the magnetos, vacuum pump, or the mechanical tach drive. Adapter kit comes complete with new gasket,

new aluminum washer for the vernatherm, new copper gasket for the oil temperature sensor, sealant for the gaskets, & new Lycoming bolts for

mounting the adapter. Wt: 4lbs. Uses CH48108 or CH48109 filters.

Adapter Kit w/ STC (for certified A/C)......P/N 08-00195\$440.00

Adapter Kit w/o STC (for homebuilt A/C)P/N 08-00196\$385.00

CESSNA / CONTINENTAL OIL FILTER ADAPTER KITS

Part No.	Aircraft Application	Price
0450404-202	C150, A150, F150, FA150, FRA150	\$598.75
0556010-200	C172, F172	\$972.00
1250922-201	C180, C185, C188, T188	\$579.95
1250922-200	C205, C206, U206, P206, 207	\$483.70

All the Continental spin on adapter kits above require the following items in addition to the adapter: Oil FilterP/N CH48110\$17.25 NutP/N 1250405-1 ..**\$139.95** AN123883 O-Ring ..P/N 08-04930\$3.80

LYCOMING SPIN-ON FILTER ADAPTER KITS

Part No.	Aircraft Application	Price
LW-13743	All Applicable Engines Except Models Shown In Table Below	\$476.95
LW-13744	0-235 Series	\$503.00
LW-13745	IO-720 with 1200 Series Series Magnetos	\$598.00
08-00513	0-320-H (LW-14969)	\$1,431.00
LW-13904	All Engines with Dual Dual Magnetos	\$451.95

All Lycoming spin on oil filter adapter kits above include adapter, oil filter assembly, adapter plate, gaskets, & attaching hardware. LW-14969 kit also contains oil cooler bypass valve assembly, 2 elbows, & 2 oil seals for oil cooler installations.

LYCOMING 90° OIL FILTER HOUSING



Fits every model Lycoming engine from O-235 thru IO-720 (except 76 series O-320 with single magne to drive.) Over 300,000 potential applications. • Allows oil filter installation on engines(close coupled to firewall) previously limited to oil screens. • No interference w/existing engine components/accessories and fits virtually any airframe. • No hoses, fittings, or brackets to contend with. Average installation time 1.5 hours. • "No Spill" oil filter changes • Uses certified Champion CH48108-1 or CH48109-1 filters. • Robust A356-T6 investment casting and ISO9002/AS9100 quality assure a perfect product

every time. • Complete kit (gasket, seals (2), and detailed instructions with each unit). No additional trips to the parts counter. This unit fits all models (RV-3, RV-4, RV-6, RV-7, RV-8, as well as the IO- 540 powered Rocker.) Also an excellent fit for Velocity, Long-EZ, Vari-Eze, & Cozy, as well as many others.

Experimental Adapter plus CH48109-1 filter	rP/N	08-00977	\$273.20
Experimental Adapter plus CH48108-1 filter	rP/N	08-00976	\$273.20
Experimental Adapter only	P/N	08-00975	\$255.95
STC'd Adapter plus CH4809-1 filter	P/N	08-01237	\$292.25
STC'd Adapter plus CH4808-1 filter	P/N	08-01236	\$292.25
STC'd Adapter only	P/N	08-01094	\$275.00

AEROQUIP E-Z OIL DRAIN SUMP VALVES



Makes aircraft oil changes easy. The hand actuated valve when attached to the oil drain port permits engine oil changes from the ground without removing the engine cowling. The spring loaded E-Z Drain

valve cannot be accidentally opened. Actuation of the valve requires a combination push/twist motion. It also contains a dual seal arrangement which combines both an O-ring & metal-to-metal seal to prevent accidental leakage of oil through the valve. FAA Approved for use on the engines listed. Incorporates fine Aeroquip quality hose. Installation eligibility listing furnished with each unit.

Part No.	Engine Application	Thread	Price
AE99950G	Cont. C-90, O-200, GO-300, IO-360 TSIO-360, O-470, IO-470 TSIO-470, IO-520, TSIO-520, GTSIO-520	5/8-18	\$125.50
AE80666H AE80664H	Cont. O-300, late C-145 Lycoming Engines		\$356.95 \$127.50

Valve O-Ring, All Models	MS28775-011	\$0.23 Ea.
	AE99950G MS28775-113	
9	AE805555H MS28775-118	3 \$0.23 Ea.

Not to be used on Piper Models PA-28R-200, PA-28R-201, PA-28RT-200.



SAF-AIR OIL DRAIN SUMP VALVES

Changing engine oil has never been easier. With the Saf-Air oil Drain Valve, no wrench is needed to remove the drain plug. A simple push and turn of the Saf-Air valve locks it in the open position. The valves are made completely from aluminum & stainless steel S6250 parts. FAA & PMA APPROVED

Part No.	Engine Application	Thread	Price
S6250	Cont. (same as Aeroquip AE99950G)	5/8-18	\$57.95
S1000	Cont. (same as Aeroquip AE80666H)	1-18	\$57.95
P5000	LYC (same as Aeroquip AE80664H)	1/2NPT	\$57.95
M12175	ROTAX 912, 914	12mm x 1.75	\$34.95
S7516	Cont IO-520-E	3/4"-16	\$64.50
	Franklin Engines	3/4" NPT	\$64.50
S5020J	Jabiru 2200 / 3300	1/2"-20	\$28.65
M20150	Subaru 2.2L / 2.5L	20-1.50mm	\$34.95



SAF-AIR LOW PROFILE 2-PIECE OIL DRAIN SUMP VALVES

Perfect for a close clearance engine oil drain application such as on the Piper Arrow. These low profile oil drain valves are designed to clear retractable landing gears & other restrictions. The valve is very affordable and can be rebuilt. It is a simple procedure to sam-

ple or drain hot oil. The valve is made from 360 brass & 302 stainless steel. FAA & PMA APPROVED.

Part No.	Engine Application	Thread	Price
05-00891	Continental	5/8-18	\$86.00
05-00892	Pratt & Whitney	1-18	\$85.50
05-00893	Lycoming	1/2-18 NPT	\$84.95
	05-00891 05-00892	05-00891 Continental 05-00892 Pratt & Whitney	05-00891 Continental 5/8-18 05-00892 Pratt & Whitney 1-18



LOW PROFILE OIL DRAIN VALVE

This is exactly what Lancair IV owners have needed for their continental engine! Forget the huge mess when changing oil! Engineered to fit and will not interfere with the retracted nose strut! Finally, makes oil changing simple and easy in your Lancair IV! Fits any 5/8"-18 thread

drain plug. Brass and steel construction; yellow zinc plated dust cover provides protection between changes. Drains via hose directly into container. P/N 08-01298\$97.50

OIL QUICK DRAIN PROBE

This machined nylon probe is fitted with a steel insert. Replaces the expensive probe from AVI (BJ107) and Piper (492-283). Add a drain hose and change oil in the wind with very little clean-up. Similar to probe on Seneca, Bonanza, and some Cessna aircraft. Not FAA approved.

P/N 12-00697\$**69.00**

VERNI-THERM VALVE - Lycoming thermostatic oil cooler P/N 53E19600**\$231.50** bypass valve wt. 4 oz.



AEROMAG

AeroMag is a powerful high-tech magnet assembly that fits around your oil filter to trap and hold steel particles against the inner wall of the filter canister. These are the particles that are missed by the standard aircraft filter. This results in fewer damaging wear particles recir-AeroMag for 3" Dia. Filters (Rotax)P/N 08-01235........ ..\$69.50

will not affect instruments · AeroMag traps and holds wear-inducing metal particles smaller than one micron that have escaped through the filter • Money-back guarantee & lifetime warranty. • Easy installation • Strong neodymium magnets secure it to the filter & trap harmful particles with the same powerful bond • Constructed from the highest quality components & completely reusable • No moving parts to wear out.

Features: · AeroMag helps reach TBO. AeroMag

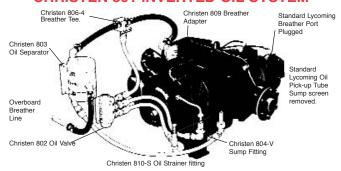
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287

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OIL SYSTEMS

CHRISTEN 801 INVERTED OIL SYSTEM



This accessory kit for Lycoming engines provides normal engine lubrication with minimal oil loss during aerobatic flight. It functions as a self-contained extension of the normal engine oil and breather systems. Can be installed in a few hours without engine disassembly.

Model No.	Item	Stock P/N	Price
801-4*	Basic System for 4-Cyl. Engines	801-4	\$795.00
801-6	Inverted Sys. Kit for 6-Cyl. Lyc. Eng.	801-6	\$835.00
809-K	Breather Adapter Kit	809-K	\$198.95
811-V	Sump Kit for Vert.Screen Sump Eng.	811-V	\$368.95
811-A	Sump Kit for Horiz. Screen Sump Eng.	811-A	\$399.95
811-S	Sump Kit for Horizontal Screen Sump Eng.	811-S	\$312.95
812-1	Weld Boss Kit (for addition of 1 sump port)	812-1	\$53.75
812-2	Weld Boss Kit (for addition of 2 sump ports)	812-2	\$85.50
807-4**	Hose & Fittings Kit for 4-Cyl. Engines	807-4 \$	1,118.00
808-4***	Basic System Fittings Kit	808-4	\$835.00

- * 801-4 Basic system includes: 801 system manual, 802 oil valve, 803 oil separator, and 806-4 breather tee.
- ** 807-4 Deluxe Hose & Fittings kit includes: Hoses, plugs, clamps, straps, 808-4 basic fittings, and cut-off grinding wheel.
- *** 808-4 Fittings Kit includes: Nippler, elbows, and protective caps.

10-page detailed manual - describes system operation & procedure for selecting proper components for each engine model.

P/N 05-20600



CHRISTEN OIL SEPARATOR

Features welded aluminum construction with a textured white epoxy enamel finish. All internal parts are cadmium plated, and unit includes stainless steel positioning clamps. Normally installed on fire wall or on engine mount. Requires 2 AN842-12D or -16D hose elbows and one AN823-10D hose fitting. Wt. 2.8 lbs.

installed. Applicable to all Lycoming engine applications. Used to replace a worn out or broken oil separator on Christen 801-4 systems P/N 08-06740\$384.95



CHRISTEN OIL VALVE

Multiple port gravity operated ball valve. It is cast aluminum with textured white epoxy enamel finish and all internal steel parts are cadmium plated. Normally installed on firewall or on engine

mount. Designed for fittings to be installed either at side or front or both. Requires 3 AN816-10D nipples for hose connection. Wt. 1.75 lbs. installed. P/N 08-06745.......\$346.95

RAVEN WELD BOSS KITS

These kits for sump mods come with fittings and welding rod. Aluminum Sumps (most 4 cyl) One boss ..P/N 08-00789......\$35.00 Two boss ..P/N 08-00790..... \$65.00 Magnesium Sumps (most 6 cyl.) One boss ..P/N 08-00791... Two boss ..P/N 08-00792... .\$95.00

RAVEN KNIFE EDGE MODIFICATION KITS

Horizontally mounted valve and fittings to reduce or eliminate knife edge oil pressure problems. Includes valve, specialized fittings, and one weld boss kit to add on to a regular inverted system (requires 4cyl. kitP/N 08-00793\$330.00 sump modification) 6 cyl. kitP/N 08-00794\$360.00



ADC Oil Filter System



ADC OIL FILTER SYSTEM

The ADC Oil Filter System has a cleanable element which provides remarkable filtering ability, additional oil cooling (15-20 degrees), visual bypass indicator light, outstanding engine diagnostic ability, and longer engine life. STC's and PMA's for all Lycoming and Continental engines, and most all aircraft. The Remote Spin-On Adapter Kit uses standard Champion CH48108 and CH48109 spin-on filters with the benefit of firewall or engine mount mounting for easy access for filter changes. This kit has a provision for the ADC optional chip detector, comes with lines and fittings, and is machined, rather than cast or welded. Anti-torque feature prevents firewall damage. STC's and PMA's for all Lycoming and Continental note Spin-On Kit engines, and most all aircraft.

ADC Oil Filter System - Includes everything to install, including STC, installation instructions, filter element, all hardware, hoses, fittings, electrical components and engine adapter:

Lycoming Engines O-235&O-290 engines w/standard screen housing ..P/N 07-06930 ..\$585.00 All engines w/factory installed spin-on filterP/N 07-00225 ...\$620.00 320 series & up w/ standard screen housingP/N 07-06925 ...\$645.00 Continental Engines

All engines w/spin-ons or screen housing......P/N 07-00226 ...\$676.00

ADC Remote Spin-On Filter Kit - Includes STC, installation instructions, all hardware, hoses, fittings and engine adapter Lycoming Engines

O-235 & O-290 engines w/standard screen housing P/N 07-06933 ..\$531.00 All engines w/factory installed spin-on filterP/N 07-00227 ..\$459.95 320 series & up w/ standard screen housingP/N 07-06935 ...\$469.00 Continental Engines

All engines w/spin-ons or screen housing......P/N 07-00228 ..\$469.00

We stock ADC engine adapters for Lycoming & Continental engines.
CALL FOR INFORMATION AND PRICING.

RAVEN BASIC INVERTED OIL SYSTEM



Raven systems consist of the valve with three pipe plugs, tank, mount, and clamps. The tank is constructed from aluminum and is tig welded using stainless steel internal parts prevent corrosion. Valve is machined from solid aluminum, and all parts are power coated black or white. Valve is 5-1/2"h x 1-1/2" x 1-1/2" & weighs 1.85 lbs, 6" tank is for 4 or 6 cylinder applications, & 4" tank is for 4 cyL. applications only.

6"	tank-black	P/N	08-00796	\$455.00
6"	tank-white	P/N	08-00800	\$455.00
4"	tank-black	P/N	08-00797	\$455.00
4"	tank-white	P/N	08-00801	\$455.00



RAVEN INVERTED SYSTEM **VAC ADAPTERS**

These vac adapters are machined from solid aluminum

with anodized finish. Furnished with a seal installed, and complete with AN fitting and gaskets.

Vac-6 for 6 cyl LycomingsP/N 08-00784\$165.00 Vac-4 for 4 cyl LycomingsP/N 08-00785\$165.00 Non-Acc'y Vac Pad Oil P/U ...P/N 08-00786\$75.00



RAVEN SUMP FITTING KITS

These sump fitting kits come with specialized fittings, washers, O rings needed to install the kit. Sump kit for Horizontal screen 4 or 6 cyl. Lyc.

P/N 08-00787 \$195.00 Sump kit for Vertical screen 4 or 6 cyl. Lyc. P/N 08-00788\$225.00



SLIME FIGHTERFor engines that have horizontal oil filters, this system will eliminate the problem of oil dripping down into the engine and on the firewall while the filter is being removed. A tray is supplied that catches the oil coming from the engine flange and filter while it is being unscrewed. The oil in the tray pours down a hose connected to the bottom of the tray. The filter can now be removed and thrown away.

Includes the welded aluminum tray, oil filter wrench and hose. Full set of instructions included.....P/N 08-00974......**\$88.50**

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288

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AIR OIL SEPARATORS

SLIME FIGHTER AIR-OIL SEPARATOR



Universal air-oil separator ideal for virtually any experimental aircraft. They are machined from aluminum stock and welded by a certified welder. Oil separation is provided by baffles attached on the inside. This

is a one pipe system with no extra drain lines or hoses required. Oil drains back immediately to the engine and warm air without oil goes out. No back pressure. The unit is the size of a salt shaker and weighs only ounces. Installation instructions and fittings included. Easy to install. Currently in use on over 100 RV aircraft. P/N 08-00661\$157.00

Slime Fighter II with increased cap. for eng. of 200hp or greater P/N 08-00856\$194.00

Slime Burner - Stainless vapor hose tip for exhaust pipes. Ltwt.
P/N 08-00857\$84.50

HOMEBUILDER'S OIL BREATHER/SEPARATOR

These 4 inch diameter reservoirs have beaded outlets for 5/8" I.D. hoses and a mounting flange for easy firewall attachment. These units are of a new, improved design and the reservoir body is now a spun aluminum bowl for optimum performance. The oil separators minimize oil loss and allow free breathing of the engine. They are rec-

ommended for experimental aircraft use only and are not STC'd for any certificated aircraft. Size: 4"dia.x 3-3/8"h P/N 10570\$42.60



RMJ-AERO OIL SEPARATOR

Designed to remove oil from the engine crankcase breather line providing the builder with a cleaner plane, less oil consumption, and prolonged engine life from maximum cooking, cleaning, & lubrication. Fashioned after Tony Bingelis's proven design, these separators incorporate several enhancements, including O-ring seals for the lid. Fabricated from aircraft quality mate-

rials, TIG welded, and alodyned for corrosion control. They can be firewall or cooling baffle mounted with the cushion clamp provided. The design allows for easy installation in the breather line by the use of hose clamps. Oil from the separator is returned thru tubing to a port in your engine's housing. Should your engine not have an available oil return port, RMJ-Aero can provide a Self Sealing Clamp-On Adapter utilizing your engine's oil filler neck. Installation of this adapter is easy for both flying and aircraft under construction. When clamped in place around the filler neck, the adapter provides a return port for separated oil and an integral seal, which prevents leakage. Installation & maintenance guide-

Description	Part No.	Price
Oil Separator for Lycoming (3/4" inlet/outlet)	08-00571	\$224.95
Oil Separator for Cont. (5/8" inlet/outlet)	08-00572	\$224.95
Adapter for Lycomings	08-00577	\$25.70
Adapter for Continentals	08-00578	\$25.70



HOMEBUILDER'S ENGINE

CRANK' CASE OIL BREATHER
This is a 3-1/4" dia. can reservoir with a 3/4 id hose barb outlet, 1/8npt curtis drain valve on bottom of can, and fire wall mounting bracket. Itkeep

oil in can and off belly of airplane and can be drained later withpetcock. Helps to keep crank case condensation to a minimum. Recommended for experimental aircraft use only not STC'd for certifiedaircraft.

P/N 08-00765\$93.75

ORDER ONLINE!

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- 45,000 Parts!
 - 24 Hour Access!
 - Fast, Easy Navigation!

M-20 AIR-OIL SEPARATOR

M-20 Air/Oil separators are STC'd for certified aircraft. The air/oil separator is small in size at 2" in dia. x 5' high. Models 300 and 400 are for use with dry vacuum pumps only. Models 300A and 300B are identical except for the

direction of the oil return tube. On the 300Å the tube faces opposite from the breather inlet and is prefered for Lvc. Franklin and radial engines. Designed to be mounted inline. On the Model 300B the oil tube faces the same general direction as the breather inlet and is prefered for Cont. engines and all C-170/172 aircraft regardless of engine. The 300B can be mounted on firewall or inline.

Model 300A	P/N	08-00182	\$360.00
Model 300B	P/N	08-00409	\$360.00

Model 300H - Inline mount for helicopters with engines to 315hp. P/N 08-00411\$396.00

Model 300HB - Firewall mount for helicopters with engines to 315hp P/N 08-00412 \$420.00



Model 400XL - High capacity separator for engines from 320hp to 925hp. A and B configurations are like the 300 models.

Model 400XL-A	P/N 08-00413\$	420.00
Model 400XL-B	P/N 08-00861\$	419.95



Model 600WP - Exclusively for wet vacuum pumps. Seperates liquid engine oil from the high pressure air expelled as a by-product from the vacuum pump. The oil returns to the lubrication system. Cleans air is vented. Oil can be returned to the engine either through its own port or combined with the crackcase oil return with the Model 605Y.

Model 600W	P	
Model 605Y	P/N 08-00862 \$22.00	



RAVEN AIR/OIL SEPERATOR



The Chip Detector gives advance warning of possible excessive engine wear, which could prevent an impending failure. This early warning can also greatly reduce the cost of engine overhaul. Inexpensive and easy to install. It simply replaces the drain plug, and includes a warning light on the replaces the drain plug, and includes a warning light on the instrument panel which illuminates when metal chips bridge the gap in the magnetic probe, or when the press to test switch is activated. FAA approved (STC's) for all opposed Continental and Lycoming aircraft engines. Specify aircraft and engine make and model. Plus 14V or 28V. Available for installation in the oil filter or oil sump.

Sirigie	Engine	Lyc. (Oli Filler)		00-00/02	\$220.00
Single	Engine	Lyc. (Oil Sump) .	P/N	08-06766	\$289.95
Single	Engine	Cont. (Oil Filter).	P/N	08-06763	\$284.00
Single	Engine	Cont. (Oil Sump)	P/N	08-06765	\$284.00



ANDAIR OIL/AIR SEPARATOR

Manufactured from aircraft grade materials and anodised for corrosion protection, this unit is extremely light weight and rugged. The OS8850 has been designed to remove the oil from the crankcase breather on Lycoming and Continental Engines. This gives the gain of reduced oil consumption, cleaner aircft, and cleaner environment. The CS850 has some unique features that make it

the best on the market. Upper outlet can rotate through 360° allowingeasy installation. The unit can be dismantled for inspection/cleaning. Vortex swirl separation. O-Ring seals. Light weight: 6.4 oz. 4 off 10-32 mounting lugs on the base of the separator for easy fire wall mounting.P/N 08-01034 . ..\$252.85

ANDAIR CONDENSATION TRAP

This new device is a small and very light weight condensation trap. It is used to extract water from the oil when used in conjunction with the Andair Oil/Air Separator.P/N 08-01035\$89.00

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289

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OIL COOLERS

STEWART WARNER OIL COOLERS Stewart Warner 8406R



Stewart warner 54001 Stewart Warner South Wind 8406R (formerly Harrison P/N 8526250). Applicable to all Lycoming installations from 4-cylinder 0-235 through 6-cylinder IO-540 engines. Inlet & outlet ports accept 3/8" pipe fittings. Fits Beech B-19 Sport (0-320-E2C), C-23

Model 8432R--Fits BeechA24R Sierra (IO-360-A2B), Mooney Chaparral (IO-360-A1A), Mooney Mark 22 (TIO-541-A1A). Weight 4 lbs.

Ze: 5-3/4"Hx8"VVx3-5/8"L	P/N	8432H .	\$5/4.95
Model 10611R - Fits Piper Single Engines	P/N	10611R	\$567.95
Model 10599R - Fits Cessna and Stoddard	P/N	10599R	\$507.95
Model 10578R - Fits Gulfstream AA-1	P/N	10578R	\$417.95
Model 10610R - Fits Cessnas	P/N	10610R	\$544.95
Model 10614R - Fits Piper, Cessna, Mooney	P/N	10614R	\$597.00
Model 10568R - Fits Gulfstream AA5B, GA-7	P/N	10568R	\$412.25

Note: The oil coolers manufactured by Stewart Warner will fit the aircraft listed but in most cases are not furnished with the FAA/PMA certification for those aircraft. The exceptions are P/N 8406R and P/N 8432R are furnished with FAA/PMA approval for certain Mooney aircraft. For all other applications, Form 337 field approvals are required for installation on certificated aircraft. Call for further information.

LIGHTWEIGHT OIL COOLER FOR HOMEBUILTS



Lightweight, compact oil cooler improves cooling in closely cowled homebuilts. Mounts in any position. Furnished with 4 ft. of 5/16" I.D. hose and 4 clamps. Size 7-1/2H x 12-3/4L x 3/4D. P/N 403\$54.85



POSITECH OIL COOLERS

PosiTech factory new oil coolers are designed for use on experimental aircraft such as RV-4, 6, & 8, Glastar, Lancair, & Europa. Offered at exceptional savings compared to equivalent coolers. 2-yr/2000-hour warranty.

PosiTech Part No.	No.of Oil Tubes	Overall (WxHxD)	PC Number	Applications	Our P/N	Price
P10578C	4	8"x 3.68"x 3.62"	4213MN	0-200	08-01285	\$164.25
P10568C	5	8"x 4.17"x 3.62"	4212MN	0-300	4212	\$164.25
P20002C	6	8"x 4.66"x 3.62"	4211MN	0-360	4211	\$164.25
P20003C	7	8"x 5.15"x 3.62"	4220MN	0-360	08-01286	\$164.25
P20004C	8	8"x 5.64"x 3.62"	4215MN	10-360	4215	\$188.85
P20005C	10	8"x 6.62"x 3.62"	4216MN	10-360	4216	\$188.85
P20006C	11	8"x 7.11"x 3.62"	4219MN	10-540	4219	\$188.85
P20008C	14	8"x 8.63"x 3.62"	4221MN	IO-540,Heli.	08-01287	\$250.00
P10634C	12	8"x 7.60"x 3.62"	4222MN	10-540	08-01288	\$250.00
P20104C	8Two Pass	8"x 5.64"x 3.62"	4214MN	Various	4214	\$186.95
P10641C	9Two Pass	8"x 6.13"x 3.62"	4217MN	Various	08-01289	\$250.00
P10631C	11Two Pass	8"x 7.11"x 3.62"	4218MN	Various	08-01290	\$188.85
P010904	9	11.25"x5.35"x1.25"	4228MN	Rotax	08-01291	\$168.95

COOL COLLARS

The Cool Collar is all aluminum extrusion configured as a heat sink. As your oil heats up your oil filter becomes as red hot on the outside as the oil on the inside. The aluminum Cool Collar works by conducting that heat through the filter and dissipating it out its fins. Tests indicate a 12% reduc-

tion in temperature of the oil. Installation takes about a minute. Simply slip the Cool Collar over the stock oil filter and secure it with the included clamp. Use on several RVs & other homebuilt aircraft. Not FAA approved.

For Filter No.	Bore	Length	Part No.	Price
CH48109	3-5/8"	4-5/8"	08-00681	\$32.75
CH48110	3-5/8"	3-5/8"	08-00682	\$32.75
Rotax	3"	2-1/4"	08-00683	\$24.75

OIL COOLER APPLICATION CHART

Aircraft N		Aero-Classic Part No.	Positech Part No.	Stewart Warner Part No.
Beech	10, C23, A24R, C24R	8000075	4211	8406R
	150, 152, A152, 170, 170, 172, 175, 177	8000075	4211	8406R
Experime	ental	8000081	4215	10599
	PA23-150, PA28-140 PA23-160 (SN 23-163 up) PA28-150, -151 PA28-160, -161 PA28-180, -181 PA18, PA18A, PA22-135, -150, -160	8000075 8000328	4211	8406R
Pitts	S2B	8000215	4219	10611
Stinson	108, 108-1, -2, -3	8000075	4211	8406R
Taylorcra	aft F22B, F22C, F22R	8000075	4211	8406R

AERO CLASSIC OIL COOLERS



Aero-Classic oil coolers are ideal for experimental aircraft and offer superior performance, lighter weight, and lower cost. In side by side tests, these aluminum plate and fin engine oil coolers out performed competitive models. Pressure tested at 400 PSIG and corrosion protected per MIL-C-5541 Class 1A. AERO-Classics oil cooler P/N 8000307 is FAA-PMA for

Classics oil cooler P/N 8000307 is FAA-PMA for installation on TCM IO-520-A, D, E, F, J, K, and L series engines. P/N 8000307 is also an FAA-PMA replacement for Niagara P/N 20618A and TCM P/N 654593 oil coolers. AERO-Classics oil cooler P/N 8000319 is FAA-PMA for installation on TCM 0-470-F, K, L, R and IO-520-A, D, E, F, J, K, and R series engines. P/N 8000319 is also an FAA-PMA replacement for Niagara 20446A and TCM P/N 639151 oil coolers.

Model No.	No. Plates	Dimensions (WxHxD)	Wt. (Lbs)	Part No.	Price Each
8000075	7	8.14"x 4.52"x 3.62"	1.74	08-00640	\$219.95
8000074	9	8.14"x 5.33"x 3.62"	2.08	08-00641	\$219.95
8000081*	10	8.14"x 5.74"x 3.62"	2.25	08-00642	\$227.95
8000215	13	8.14"x 6.96"x 3.62"	2.79	08-00643	\$236.95
8000216	17	8.14"x 8.59"x 3.62"	3.46	08-00644	\$306.95
8000353	18	8.14"x 9.00"x 3.62"	3.82	08-00808	\$323.95
8000328	bar&plate	7.02"x 3.00"x 3.62"	2.80	08-00809	\$426.95
8000343	9x2	8.14"x 5.75"x 3.62"	2.23	08-00810	\$429.95
8000356	bar&plate	11.38"x7.25"x 3.50"	4.48	08-00811	\$605.00
8000357	bar&plate	11.38"x7.25"x 3.50"	4.48	08-00812	\$605.00
8000307	11	7"x 4"x 12"	7.00	11-03590	\$474.00
8000319	11	7"x 4"x 12"	7.00	11-03591	\$474.00

^{*} Model 8000081 is NOT FAA/PMA approved.

OIL COOLER DUCT SYSTEM



This economical duct system provides the aircraft builder with a simple way to route cooling air to Stewart Warner style oil coolers. Manufactured from .040 aluminum, this kit was designed for use on RV series aircraft but is ideal for virtually any homebuilt using a

firewall mounted oil cooler. Kit includes baffle duct, oil cooler duct, hardware, & installation instructions.

P/N 08-05000\$38.90 ea

NDM OIL COOLERS

NDM is one of the world's largest volume manufacturers of FAA approved oil coolers. An approved supplier to both Lycoming and Continental, as well as many airframe manufacturers, NDM holds FAA/PMA's for most of these oil coolers. NDM oil coolers are manufactured utilizing the vacuum oven brazing process rather than the less costly Controlled Atmosphere Brazing (CAB) method used by others to save costs. Utilizing the vacuum oven process guarantees a high quality product and lower warranty returns. If you are not sure which NDM oil cooler is **FAA Approved** for your aircraft, please provide the aircraft model & serial number and we will determine the correct oil cooler for your application.



Part No.	NDM P/N	Stew.t Warner P/N	Price
08-00739	20001A	N/A	\$297.95
08-00740	20002A	8406R	\$283.95
08-00741	20003A	N/A	\$291.95
08-00742	20004A	10599R	\$323.95
08-00743	20005A	N/A	\$368.95
08-00744	20006A	10611R	\$367.95
08-00745	20007A	N/A	\$392.95
08-00746	20008A	10614R	\$427.95

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290

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OIL COOLERS



AOA OIL ANALYSIS KIT

Why not take the extra worry out of flying: Examine the interior condition of your aircraft engine with Aviation Oil Analysis. How would oil analysis help you? Safety is the main factor for oil analysis. Preventive maintenance that can be done on the basis of reports can save you money by:

- Replacement of worn parts prior to total engine failure.
- Ability to schedule maintenance at your local FBO, rather than emergency repairs away from home
- Minimum down time for equipment.
- Possible longer time between overhauls

Small vial, mailing bag, shipping form and instructions are furnished with order. Upon receipt at the laboratory in Phoenix, Az., the oil sample is analyzed and a full report is forwarded in 24 hrs. AOA, unlike others, specialize in aviation analysis only so are most perspective in their findings.

Kit for reciprocating enginesP/N 08-00436......\$12.95

.....P/N 08-00435......**\$13.50** Kit for turbine engines ...



LAB ONE AVIATION (LOA) OIL ANALYSIS KÌT

Oil is the life blood of your engine. An aviation oil analysis can forecast future engine problems and save you money. This kit includes a sample bottle, shipping container and the paperwork. Upon receipt, your sample will be processed within 24

hours with the results emailed or mailed from Lab One in Phoenix, AZ. Kits can be used on any reciprocating or turbine engine and helicopter transmissions P/N 08-01222\$13.50 and tail rotors.

CHAMPION CH48200 OIL FILTER ANALYSIS KIT



Champion Oil Filter Analysis Kit can help you detect abnormal engine wear and even predict impending engine trouble, because it provides a comprehensive analysis of both the larger wear particles in the oil filter and the finer wear particles in the engines oil. With this Kit you will get a detailed report on the filter element and the oil

that is based on the state of the art analytical techniques and lab results interpretation. The report will be generated with in 24 hrs of the receipt of the sample, and cost less than 1 hour of lab maintenance in the shop!

Each Kit Contains the following items:

- •Customer Information Form (CIF)
- ·Oil Sample Bottle
- ·User label for Oil Filter Bottle
- •Plastic Oil Filter Bottle
- ·Oil Sample Hose
- •User label for Oil Sample Bottle
- ·Shipping label address to Aviation Laboratories
- *The laboratory analysis of the oil filter debris and oil sample included in the price of the kit (if sent with the oil filter). The filer can be returned; however, the cost of this is not included in the price.

P/N 08-01051\$71.25

ADC OIL COOLER ADAPTER KIT



The ADC Oil Cooler adapter is a direct replacement for Lycoming adapter LW14959 which is no longer produced. The ACD adapter allows installation of an oil cooler on Lycoming 0-235 and 0-290 series engines providing much needed oil cooling and enhanced performance. The ADC adapter is machined from solid bar

stock, rather than cast like the Lycoming adapter, thus producing a stronger and leak resistant product. The ADC kit is STC'd for all 0-235 (E-223) & 0-290 (E-229) and is ideal for certificated and homebuilt aircraft using these engines. Adapts to virtually any oil cooler and attaches to the engine underneath the oil screen housing.

P/N 07-06950\$373.95

OIL DIPSTICKS

New manufacture oil tank dipsticks stamped with proper

oanbration markings.		
Dipstick Long Neck	.P/N 08-00037	\$36.40
Dipstick Short Neck	.P/N 08-04612	\$36.30
Dipstick Shrt NK 0-200&C-90 .	.P/N 08-04613	\$36.40
Dipstick Ercoupe Long Neck	.P/N 08-04614	\$59.95

MICROLON AIRCRAFT ENGINE TREATMENT



Microlon is a revolutionary, one-time metal treatment that virtually eliminates friction in all internal combustion engines which improves performance (horsepower), reduces wear, and extends engine life. Also decreases fuel consumption, reduces oil consumption, and lowers operating temperatures. Microlon impregnates the engines bearing surfaces, forming a dry film lubricant that lasts no matter how many times the oil is changed. Continental A-65, C-85, and C-90 engines take the Half Kit shown below. Most

Lycoming and Continental engines used in light aircraft take the Single Kit. Turbocharged and Radial engines take from 2 to 6 Single Kits. Call for details if you have any questions on the quantity of Microlon needed for your application. Microlon kits also available for cars, buses, trucks, motorcycles, boats, and industrial equipment.

Microlon CL-100 Aircraft Kit (Single)P/N 09-35805..........\$119.95

PROLUBER ENGINE PRE-OILER



ProLuber is a device that is added on to your oil system to give you pre-start oil pressure. You just turn on the ProLuber for a couple of seconds, watch your oil pressure gauge rise, and then start the engine when the pressure reaches the desired level. The ProLuber is able to

generate 40-60 lbs. of oil pressure in your engine before you hit the ignition switch. Simple to install and requires no drilling through your oil pan or the block. Comes with a complete kit for installation, including fittings, hoses and the on-off switch. You simply mount it, pressurize it with your air hose and begin enjoying the benefits. P/N 08-00197\$465.00



POLY-FIBER ESO ENGINE STORAGE OIL

A fine lubricating and preservative oil used to prevent corrosion in internal combustion engines during extended storage. MIL-1-21260.

QuartP/N 09-42450\$15.25 GallonP/N 09-42455 \$49.05

AVIATION SERVICE REMINDERS

These reminder cards provide an excellent maintenance reminder for aircraft owners. They attach by static cling, leaving no residue on the windshield. Cold weather or hot, they stick in the corner of the windshield to remind the pilot of oil status every time P/N 08-42305**\$6.95 10/pk** they fly.



EVANS

EVANS NPG + COOLANT FOR ROTAX ENGINES

NPG+ is new coolant providing dramatic improvements in heat transfer and viscosity that make the new fluid a "pour-in," not requiring changes to cooling system components. Conversion to NPG+ waterless coolant from the use of conventional antifreeze and water coolant mixes, to take advantage of the benefits of non-aqueous engine cooling, is now simple to accomplish. NPG+ waterless coolant virtually eliminates boil over in gasoline or diesels

- the waterless coolant allows engines to tolerate running hotter, without boiling over, and allows the cooling system to run at very low or no pressure. Because there is no water in the system engines operating with NPG+ will be free from corrosion and electrolysis, and the engines will run well no matter how hard they are driven or how hot or cold the environ-ment is. Evans Blended Waterless Coolant is recommended, for street use and racing where ethylene glycol use is permitted, long life Coolant. 300 or more HP recommend use: aluminum radiator and 7 psi cap. Specified coolant for Rotax Aircraft Engines, Type 912 and 914 (series)
P/N 08-04535\$27.7

EVANS PREP FLUID

Evans Waterless Flush is used when systems cannot be drained properly of all the conventional water and antifreeze. Suggested to be used with experimental aircraft conversion and all motorcycle, ATV and import cars. Not intended to be used as a coolant.

P/N 08-04534**\$23.75**

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291

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AEROSHELL AVIATION OILS

Aeroshell W100 is an ashless, SAE 50 dispersant oil that provides excellent service in all four cycle aircraft piston engines. Aeroshell W Multigrade 15W-50 is an antiwear, ashless, dispersant, semi-synthetic oil. It is fully approved in all Lycoming, Continental, and Pratt & Whitney aircraft piston engines. Reduces engine wear, fuel consumption, and oil consumption. Helps engines start faster and eliminates the need for seasonal oil changes. Aeroshell W100 plus contains additive LW16702 which reduces engine wear and

corrosion. Ideal for operations in mild to warm temperatures. Aeroshell W100 & SAE 50 oils meet MIL-L-22851C specification. Aeroshell Turbine Oil 500 provides superior high temperature corrosion protection & excellent anti-wear protection. Approved for a wide range of turbine engines including the Pratt & Whitney PT6A.

Description	Qt. P/N	Price/Qt.	Case P/N	Price/Case
W100 SAE 50	08-05400	\$3.50	08-05401	\$42.00
15W-50 Multigrade	08-05450	\$5.50	08-05451	\$62.25
W100 Plus	08-05485	\$4.90	08-05486	\$53.50
Mineral Oil	08-05410	\$4.25	08-05411	\$42.90
Turbine Oil 500	08-00581	\$26.10	08-00582	\$249.95



ΕP

PHILLIPS 66 X/C AVIATION OIL

X/C oils provide easy starting and quick lubrication under low temperature conditions. Provides film strength and low wear under high temperature conditions. Provides excellent protection against engine deposits, ring groove carbon, piston lacquer, crankcase sludge and oil oxidation. Contains ashless dispersant which keeps engine clean. With more than 10 years of outstanding field performance, X/C oil meets Avco-Lycoming & Teledyne Continental engine specifications.

Description	Qt. P/N	Price/Qt.	Case P/N	Price/Case
X/C 20W-50 Av. Oil	08-05300	\$3.95	08-05301	\$39.95
20W-50 Mineral oil	08-05310	\$3.20	08-05311	\$41.20



EXXON ELITE AVIATION OIL

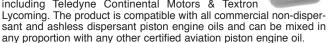
Exxon Elite™ 20W-50 is a multigrade oil with the flexibility to lubricate effectively over a wider range of temperatures than monograde oils. Compared to a monograde oil, a multigrade oil provides better cold-start protection and a stronger lubricant film at typical operating temperatures. Other benefits include lower oil consumption and better fuel economy as a multigrade oil, Exxon Elite™ 20W-50 has all these intrinsic advantages. • Meets SAE J1899 • Meets MIL-L-22851D (obsolete) •U.S. military approved • Contains anti-wear/anti-scuffing

additive required by some Lycoming engines • FAA approved fluid for Alternative Method of compliance w/AD-80-04-03-R2, paragraph b.1 ·Compatible with all commercial aviation piston-engine oils

	o p og o.	
Quart	P/N 08-00392	\$5.85
Case	P/N 08-00432	\$55.75

EXXON AVIATION OIL 20W-50

Exxon Aviation Oil 20W-50 is a non-dispersant lubricant for the break-in of new or newly overhauled aircraft piston engines. The multi-grade oil can be used year-round, in high and low temp climates, and was designed for use before switching to Exxon Aviation Oil Elite 20W-50. Manufactured from high thermal/oxidation stability base oils and is approved by the US Military & leading engine manufacturers worldwide, including Teledyne Continental Motors & Textron



	arianon pioton ongino	•
Quart	P/N 08-01292	\$3.95
Case (12gts)	P/N 08-01293	\$38.40



EXXON OIL BOTTLE ADAPTER

This adapter allows easier pouring from the large mouth Elite oil bottles in certain aircraft and includes a built-in valve to allow the flow of oil to be regulated

•		rogulatoa.	
Р	/N	08-01042	\$3.95

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AVIATION OIL

CASTROL AVIATOR OILS

Castrol® Aviator AD piston oils are formulated from selected, highlyrefined mineral basestocks blended with an advanced additive system designed to enhance low temperature fluidity, high temp. stability, corrosion inhibition and anti-wear protection. The additive system is ashless and of a dispersant nature offering greater engine cleanliness and maximum protection.

Oil	Liter	P/N Price	Case P/N	Price
Aviator S65	08-00923	\$3.95	08-00915	\$37.30
Aviator S80	08-00924	\$3.95	08-00916	\$37.30
AviatorS100	08-00925	\$3.95	08-00917	\$37.30
Aviator S120	08-00926	\$3.95	08-00918	\$37.30
Aviator AD65	08-00927	\$4.50	08-00919	\$46.30
Aviator AD80	08-00928	\$4.50	08-00920	\$46.30
Aviator AD100	08-00929	\$6.10	08-00921	\$68.25
Aviator AD120	08-00930	\$5.50	08-00922	\$56.50



LYCOMING OIL ADDITIVE

Avco Lycoming has approved oil additive LW-16702 that contains an anti-scuffing agent and can dramatically reduce engine wear. This additive is applicable to all Avco Lycoming piston aircraft engines, and factory recommends use at every oil change or every 50 hours, whichever occurs first. For 6-8 qt. sump, use one 6 oz. can, for 12-15 qt. sump, use (2) 6 oz. cans, for 17-19 qt. sump, use (3) 6 oz. cans, for 23 qt. sump, use (4) 6 oz. cans.

6 oz. canP/N 08-05600 \$21.85



LINKITE AVBLEND LUBRICANT

An oil supplement for aircraft, is now available for the first time to all piston engine-powered aircraft owners and operators worldwide. AvBlend produces a wetting action that allows lubrication to penetrate the pores of an engine's metal surfaces. Providing critical lubrication at start-up, AvBlend helps prevent accumulation of combustion chamber areas. Wear is reduced, engines stay cleaner and combustion chambers stay properly sealed. Keeping exhaust valves clean, well lubricated and stem-

to-guide clearance at specified levels as well as valves moving straight up and down in their guides are the biggest battles in an aircooled aircraft engine. Proper cylinder sealing is essential for achieving optimum peak pressure and design-level output. FAA approved. 4-cylinder engines require 1 can at each oil change, and 6 cylinder engines require 2 cans.

12oz. canP/N 08-05470......\$18.95 1Case (24 cans)P/N 08-05470-1\$454.80



PENNZOIL OIL

Two-cycle oil for air-cooled engines. Recommended by engine manufacturers for air- and water-cooled engines. Packaged 24 individual 16-oz. bottles to a case.

Case	P/N PZ001.	\$48.50
16 oz Bott	leP/N PZ002.	\$2.55

AVIATION GAS TURBINE OILS

Case quantities are 24 quarts

Oil	Qt. P/N	Price	Case P/N	Price
Aeroshell Turbine 500	08-00581	\$26.10	08-00582	\$249.95
Aeroshell Turbine 555	08-00757	\$17.90	08-00758	\$188.95
Aeroshell Turbine 560	08-00759	\$26.70	08-00760	\$293.50
British Petroleum 2380	08-00761	\$23.50	08-00762	\$257.95
Mobil Jet II	08-00763	\$23.00	08-00764	\$221.95

AEROSHELL GREASES

\$7.45	08-05455.)P/N	#5 (hi-ter	shell Cartridge	Aer
\$10.60	08-05460.	pose)P/N	#6 (gen.	shell Cartridge	Aer
\$8.35	08-05475.	ar)P/N	#7 (prop	shell Cartridge	Aer
\$6.75	08-05480.	ter)P/N	#14 (heli	shell Cartridge	Aer
\$9.65	08-00824.	P/N	#17	shell Cartridge	Aer
\$14.65	08-05490.	81322)P/N	#22 (MIL	shell Cartridge	Aer
\$19.40	08-00825.	81322)P/N	#33 (MIL	shell Cartridge	Aer

AIRCRAFT SPRUCE WEST

292

20W-50

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FUNNELS — OIL DRAIN SYS — CABIN HEATERS

model 112



model 415

model 428

CLEAN FUNNEL™

Clean Funnel™ is the funnel that keeps itself clean. Replacing the caps on each end after each use prevents left over fluid from dripping out, and keeps your work area or baggage compartment clean. No need to wipe your funnel out with a rag before reusing. Clean Funnel™ is ideal for use with fuel or oil as well as windshield washer fluid, detergents, antifreeze, hydraulic fluid, and more. Great for aircraft, automobiles, motorcylces, tractors, boats, ATV's snowmobiles, and more.

- Model 112 (turquoise) has a 1 pint fluid capacity and a 12" vinyl tube attached to its spout, making it very handy to reach into small or tight spaces
- Model 415 (red) has a 1-1/2 quart capacity, 17" long with flexible spout, and spout I.D. is 9/16".
- Model 428 (black) has 1-1/2 quart & 13-1/4" long with a flexible spout and 1-1/8" O.D. spout.

Model #	Color	Part No.	Price
112	Turquoise	12-00374	\$5.90
415	Red	12-00375	\$6.95
428	Black	12-00376	\$7.80



DISPOSABLE FOLDING OIL FUNNELS

These disposable funnels are very popular among aircraft owners and pilots for adding engine oil. They store flat, clean and dry in a recloseable bag, and eliminate the messy cleaning when using a regular funnel. Also ideal for brake fluid, resins, and paints. Furnished in pack of 10 funnels

Pack of 10 ..P/N 08-00040\$2.65



LYCOMING OIL **SCREEN ADAPTER**

This oil screen adapter replaces the standard Lycoming oil screen housing on Lycoming 0-320 series engines and up. It retains the thermistor valve and the oil temperature sender but eliminates the oil screen, eliminating the need for constant service.

P/N 08-06752.....**\$189.00**



OIL DRIP PAN

The drip pan is 54-1/2" x 32-1/2" x 2" and is manufactured out of an extremely durable and chemical resistant plastic (high density polyethylene). White in color, our drip pan is neat and clean in appearance and allows for easy visual in-

spection and monitoring of any engine leaks. The size and design of the drip pan will collect virtually any leaking fluids and eliminate the need for five quart pails and other messy collection containers. It is also a convenient place to pour fuel samples. Specifically designed for general aviation.

P/N 08-06700**\$59.65**

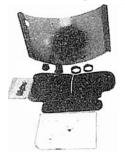


DRAIN MATE

The patented Drain Mate is a handy new pilot tool that works like a second pair of hands. Great for complete draining of motor oil bottles and other fluid containers, Drain Mate saves time, money, and frustration. Simple to use. The spring clamp attaches to the funnel,

bucket or bowl. Bend or flex it to near vertical drain position, then insert bottle for final draining (after conventional bulk removal). Depress finger tabs to clamp/unclamp bottle. The Drain Mate can also be used for other draining chores around the hangar, home, P/N 08-00570.....\$9.95 garage, marina, and shop.

RANS AIRCRAFT CABIN HEATER



The RANS aircraft heater is the answer to the winter flying "chills". It is very lightweight, inexpensive and installs easily in just two hours. This heater utilizes ram air & the heat off the engine muffler. Operation is simple. Slipstream air is forced through the heater inlet, passing over the muffler, picking up the heat and delivering it to the cabin or pod via an Aeroduct hose. Contains no moving parts. Fits Rotax mufflers and adaptable to other engines.

P/N 05-17400\$75.00

INFRA-RED CABIN HEATERS



These small, lightweight units are forced air infra-red D.C. quartz heaters that warm you almost instantly. Each model is thermally protected by a safety valve heat limiter and fuse protection is another safety feature. Select the heater you require according to the size of your alternator and your other electrical needs. All models weigh 2 lbs. and are 4"h x 5"w x 6"d. For use in homebuilt aircraft, boats, RVs, vans & heavy equipment.

Model	Volts	Amps	Watts	List Price	Our Price
K12-2500	12	25	300	\$215.00	\$161.95
K12-3500	12	35	420	\$230.00	\$180.95
K24-2500	24	25	600	\$235.00	\$186.95
K24-3500	24	35	840	\$250.00	\$218.95



ENGINE OIL TUBE EXTENDERS

By simply adding one of these Oil Tube Extenders to your Continental engine, you can service your aircraft with oil without using a funnel and without a mess. Installation of the FAA approved STC'd kit takes only minutes. The filler opening will then be near the cowling within the reach of your oil can.

The kits will fit these Continental models:

0-470-A, -B, -E, -G, -J, -K, -L, -M, -P, -R, -S, -U, **10-470-C**, -D, -E, -F, -G, -H, -J, -K, -M, -N, -P, -R, -S, -U, -V, **TS10-470**-B, -C, -D **10-520**-A, -D, -E, -F, -J, -K, -L, **TS10-520**-C, -G, -H, -M, -P, -R, -T, -AF Select the kit that will extend your oil filler the correct amount.

Extends 2 inches P/N 08-04365.....\$7.70



OIL COOLER AIR DUCTS

These reminder cards provide an excellent maintenance reminder for aircraft owners. They attach by static cling, leaving no residue on the wind-

shield. Cold weather or hot, they stick in the corner of the windshield to remind the pilot of oil status every time they fly.

Part No.	Application	Price
08-01281	20002A Niagara, 800075 Aero Classics	\$63.90
	8406R Stewart Warner, P20002C PosiTech	
08-01282	20004A Niagara, 800081 Aero Classics	\$75.60
	10599R Stewart Warner, P20004C PosiTech	
08-01283	20006A Niagara, 800215 Aero Classics	\$87.75
	10611R Stewart Warner, P20006C PosiTech	

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293

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ULTRALIGHT ENGINE ACCESSORIES

SPARK PLUG CADDY

Handy case holds (2) 14mm spark plugs. Small enough to fit into your pocket.

P/N SPC01

SPARK PLUG WRENCH

Loosen or tighten your spark plugs with this handy tool.

P/N SPWR01.....



PLASTIC STARTER HANDLE

Black flexible plastic heavy duty handle. Tested to P/N SH001 ... \$4.95



SPARK PLUG JACK

Rivets or screws to any flat surface and holds two spare 14mm plugs. Tough polycarbonate plastic with spring-loaded plug anchors keeps plugs dry and protects gaps.
P/N SPJ01\$3.95



NYLON STARTER ROPE

The perfect replacement rope for worn-out manual P/N SRP01**\$0.45 per ft.**

ΕP

SPARK PLUG CAPS

Original NGK. Black. 5000 ohm resistance. P/N 08-00737 is used on threaded type plugs. P/N 08-04960 is used on solid top plugs. P/N 08-00737.....**\$3.35** P/N 08-04960\$3.35



SPARK PLUG WIRE

High-quality multi-strand copper core unshielded wire. 7mm diameter. For all Rotax® and most other engines. Replaces Rotax® Part No. 965-158.

P/N SPW01\$0.65 per ft.



FLEXDRIVE

PosiFlex coupler for Quicksilver

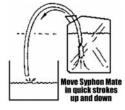
For 377/477 w/o high-thrust modP/N QFD002\$149.95 For all high-thrust modsP/N QFD003\$209.95



RATIO-RITE CUP

Getting the right oil-to-gas ratio is no problem with this tough polypropylene cup. Just fill the cup with oil to the ratio level desired, and mix with gasoline. Ratios from 16:1 to 50:1. Graduated in ounces and CCs for filling chain cases, etc. 18 oz. capacity.

CupP/N RRT01\$4.05 LidP/N RRT02\$1.38



SYPHON MATE

Here's a safe and easy method of fuel transfer. A simple jiggle of the Syphon Mate establishes the flow, and then air pressure maintains it. Never wears out, and it's guaranteed for three years. The outlet end is 1/2" standard pipe thread for easy attachment to a garden hose, if needed.

P/N SPM01 ... \$6.95

STAINLESS STEEL FIREWALL SHIELDS



Single Piece 3/16" Hole w/ Rubber Backing **P/N 61-175\$6.20 ea.** P/N 61-175



Single Piece 5/32" Hole 3/4" Dimple For Grommet P/N 61-225\$6.20Ea



Two Piece 1/2" Hole 3/4" Dimple For Grommet P/N 61-300 ..\$7.70 pr.



Two Piece 3/8" Hole 3/4" Dimple For Gromr P/N 61-275\$7.70 pr



Two Piece 1/4" Hole 3/4" Dimple For Grommet P/N 61-250\$7.70 pr.



Two Piece 3/8" Hole 1-1/4" Dimple For Grommet

Two piece shields for use over cables or wires with large end-fittings or existing installations. Single piece for use where the cable or wire may pass through the hole. Flat shields designed for use on wooden or composite firewalls using a fire resistant sealant to prevent leaks. Both types of shield available in flat or with dimple to accommodate rubber grommets up to outside diameter.

Actual hole size in 2 piece shields is slightly larger than indicated to prevent chafing cable. Ream pilot hole in single piece shields oversize for the size grommet used. Use grommets that fit tightly around the cable or wire to insure a good seal.

Shields may be installed with screws, bolts and plate nuts or rivnuts. Install cable and grommet in firewall. Locate the shield to insure that it is centered on the cable - then drill attach holes in firewall. Shields predrilled with 5/32 mounting holes. If more than one cable passes through grommet fire resistant sealant must be applied to grommet.

CAUTION: Any holes drilled in the firewall are potential source of carbon monoxide in the cockpit. Extreme caution must be exercised when installing firewall shields in your aircraft. They do not provide the necessary seal around cables or wires to prevent carbon monoxide, smoke or fire from entering the cockpit. The shields are designed only to protect the sealing material (grommets/gaskets) from excessive heat.

HOMEBUILDERS CONICAL LYCOMING **ENGINE MOUNT BUSHINGS**



These new bushings offer superior damping qualities and do not harden over time as original mounts can do. They are molded from hi-tech silicone rubber which offering a much lower compression set which reduces engine sagging over time. Silicone also withstands a very wide temperature range and is compatible with grease and oil. These mounts are not PMA'd or FAA

approved and are for use on experimental aircraft only. Not an approved replacement for Lycoming 71032 bushings. Sold in set of 8 bushings. P/N 08-00662 ..**\$39.50 /Set**

LORD ENGINE MOUNTS FOR ULTRALIGHTS



All altitude mounts for vibration isolation and shock prevention in all directions. Available in soft, medium, or hard rubber. Soft......P/N BM001\$9.30\$14.20P/N BM003 Snubbing Washer......P/N 9810145-01804\$1.27

RUBBER ENGINE MOUNTS

Used to isolate vibration from engine/exhaust system to airframe. P/N LM001 \$5.70



RUBBER ENGINE MOUNTS

Natural Rubber and steel. P/N LMT02......\$17.80





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294

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LORD ENGINE MOUNTS

LORD ELASTOMERIC ENGINE MOUNTS



These compression type couplings consist of bonded rubber joints pressed into the sockets of metal hubs. These dynafocal engine suspensions provide proper flexible support to isolate engine vibrations and reduce noise transmission to airframe structure in all aircraft applications. Careful design assures maximum strength to hold the engine under ultimate load and emergency conditions. Suspensions also distribute loads in most desirable patterns, control engine motions, accommodate thermal expansion and manufacturers' tolerances. Vibration Isolation Products (VIP) equivalant mounts are available as listed in table below.

PROMPT SHIPPING GUARANTEED! IF YOU REQUIRE UNLISTED LORD MOUNTS, PLEASE CALL US FOR YOUR BEST PRICE.
WE BEAT ALL COMPETITOR'S PRICES! LET US KNOW OF ANY LOWER PRICE AND WE WILL BEAT IT!

Aircraft Model	Application/ Engine	No. per A/C	Part No.	Price	Aircraft Model	Application/ Engine	No. per A/C	Part No.	Price
AVIAT					BELLANCA				
A-1	Lyc. O-360-C1G/A1P	8	J-1552	\$34.95	17-31, 17-31A	Lyc. IO-540-K	4	J-9868-5	\$179.95
S-1	Lyc. O-320	8	J-7401-2	\$34.40	17-31A	Lyc. IO-540-KIE5	4	J-9868-5	\$179.95
S-1S, -2A	Lyc. O-360-B4A, A1P	8	J-7401-2	\$34.40	17-31TC,17-31ATC	Lyc. IO540-G, K	4	J-9868-5	\$179.95
BEECHCRAFT					7ACA	Franklin 2A-120A, B	8	J-3608-1	\$11.85
19	Lyc. O-320-E2C	4	J-7402-16	\$55.50	7ECA	Cont. O-200-A	8	J-3608-1	\$11.85
B19, M19A	Lyc. O-320-E2D	4	J-7402-16	\$55.50	7ECA 7CCBC	Lyc. O-235-C1	4	J-6230-1	\$79.95
23	Lyc. O-360-A4G	4	J-7402-16	\$55.50	7GCAA, 7GCBC 7GCAA, 7GCBC	Lyc. O-320-A2B Lyc. O-320-A2D	4 4	J-6230-1 J-6230-1	\$79.95 \$79.95
23	Cont. IO-346-A	4	J-10778-4	\$173.95	7KCAB	Lyc. O-320-A2D Lyc. O-320-E2A	4	J-6230-1	\$79.95
A23-24	Lyc. IO-360-A2B	4	J-10778-4	\$173.95	7KCA	Franklin 2A-120A, B	8	J-3608-1	\$11.85
C-23 24,A24,A24R,B24R	Lyc. O-360-A4K	4	J-7402-16	\$55.50 \$338.95	8GCBC-CS	Lyc. O-360-C1E	4	J-6230-1	\$79.95
C-24R	Lyc. IO-360-A2B Lyc IO-360-A1B6	2 ea.* < 2 ea.*	J-10778-14 J-10778-16	\$192.95	8GCBC-FP	Lyc. O-360-C2E	4	J-6230-1	\$79.95
B33, C33	Cont. IO-470-K	4	J-7518-2	\$103.95	8GCBC	Lyc. O-360-C2E	4	J-6230-1	\$79.95
C33A	Cont. IO-520-B	4	J-10520-1	\$105.95	8KCAB	Lyc.IO-320-E1A	4	J-6230-1	\$79.95
E33, F33	Cont. IO-470-K	4	J-7518-2	\$103.95	8KCAB-CS	Lyc. AEIO-320-E1B	4	J-6230-1	\$79.95
E33A/C, F33A/C	Cont. IO-520-BB	4	J-10520-1	\$105.95	8KCAB-FP	Lyc. AEIO-320-E2B	4	J-6230-1	\$79.95
G33	Cont. IO-470-N	4	J-10520-1	\$105.95	8KCAB-180	Lyc. AEIO-360-H1A	4	J-6230-1	\$79.95
35, A35, B35	Cont. E185-8	8	J-2245-1	\$82.00	CESSNA				
C35, D35, E35, F35	Cont. E185-11	4	J-3804-26	\$106.95	120-140	Cont. C-85	8	J-3608-1	\$11.85
E35, F35, G35	Cont. E225-8	4	J-3804-26	\$106.95	140A	Cont. C-90	8	J-3608-1	\$11.85
H35	Cont. O-470-G	4	J-7518-2	\$103.95	150, 150A-L	Cont. O-200-A	8	J-3608-1	\$11.85
J35, K35, M35	Cont. IO470-C	4	J-7518-2	\$103.95	152, 152 Aerobat	Lyc. O-235-L2C	4	J-7402-1	\$58.75
N35, P35	Cont. IO-470-N or-C	4	J-7518-2	\$103.95	170, 170A, B	Cont. C-145	4	H-3006-1	\$16.50
S35,T35,V35,V35A,B	Cont. IO-520-BB	4	J-10520-1	\$105.95	170B	Cont. O-300-A	4	H-3006-1	\$16.50
36, A-36	Cont. IO-520-BB	4	J-10520-1	\$105.95	172	Cont. O-300-A	4	H-3006-1	\$16.50
A36TC V35A-TC	Cont. TSIO-520-UB Cont. TSIO-520-D	4	J-10520-1	\$105.95 \$105.95	172A 172 B-H	Cont. O-300-C Cont. O-300-C, D	4 4	H-3006-1 H-3006-1	\$16.50 \$16.50
B50	Lvc. GO-435-C2/C2E	8	J-10520-1 J-3804-10	\$105.95	172 I-P	Lyc. O-320-E2D	4	J-9613-49	\$101.95
C50	Lyc. GO-480-F1A6	8	J-3804-10	\$129.95	172P	Cowl Mount		J-7444-14	\$9.80
D50, D50B/C/E	Lyc. GO-480-G2F6	4	J-3804-10	\$129.95	F172P	Cowl Mount		J-7444-14	\$9.80
E50, F50, G50, H50	Lyc. GSO-480-B1B6	4	Use	ψ. <u>20.00</u>	F172P	Cowl Mount		J-7444-24	\$18.90
	-,	4	J-7525-1	\$93.95	F172	Cowl Mount		J-7444-36	\$38.50
G50, G50, J50	Lyc. IGSO-480-A1B6	4	& J-6545-1	\$62.95	172	Lyc. O-320-D2J	4	J-9613-49	\$101.95
55, A55, B55	Cont. IO-470-L	8	J-7518-2	\$103.95	172N	Lyc. O-320-H2AD	4	J-9613-49	\$101.95
55, A55, B55, B55A	Cont. IO-470-L	8	J-9613-5	\$247.95	172	Cont. IO-360-K	4	J-9613-42	\$108.95
C55(1967), D55,					172RG	Lyc. O-360-A1F6	2 ea.*_		
D55A,E55,E55A	Cont. IO-520-CB	8	J-10778-16	\$192.95		l	l '	J-9613-72	\$189.95
56TC, A56TC	Lyc. TIO-541-EIB4	8	J-9613-9	\$122.95	172Q	Lyc. O-360-AL/N	2 ea.*	J-9613-49	\$101.95
58	Cont. IO-520-CB	8	J-10778-16	\$192.95	1700.0			J-9613-72	\$189.95
58 (1984-on) 58P	Cont. IO-550-C Cont. TSIO-520-L/-LB	8 8	J-10778-16 J-12453-12	\$192.95 \$118.95	172P,Q 172	Cowl Mount Cowl Mount		J-7444-24 J-7444-36	\$18.90 \$38.50
58P	Cont. TSIO-520-L/-LB	8	J-12453-12 J-12453-12	\$118.95	P172	Cont. GO-300-E	4	J-6545-1	\$62.95
58TC	Cont. TSIO-520-WB	8	J-12453-12	\$118.95	R172E,K	Cont. IO-360-D	4	J-9613-42	\$108.95
58TC	Cont. TSIO-520-WB	8	J-12453-12	\$118.95	175	Cont. GO-300-A	4	J-6545-1	\$62.95
60, B60	Lyc. TIO-541-EIC4	8	J-9613-9	\$122.95	175A, B	Cont. GO-300-C, D	4	J-6545-1	\$62.95
65, A65, 70	Lyc. IGSO-480-AIE6	4	J-7525-1	\$93.95	175C	Cont. GO-300-E	4	J-6545-1	\$62.95
' ' '		4	J-6545-1	\$62.95	177	Lyc. O-320-E2D	4	J-9613-49	\$101.95
76TC	Lyc. TO-360-CIA6D	2 ea.*<	√J-9613-49	\$101.95	177A	Lyc. O-360-A2F	4	J-9613-49	\$101.95
76	Lyc. O-360-AIG6D	2 ea.*	J-9613-50	\$86.25	177B	Lyc. O-360-A1F6D	4	J-9613-49	\$101.95
77	Lyc. O-235-L2C	4	J-7402-1	\$58.75	177RG	Lyc. IO-360-A1B6	4	J-9613-59	\$167.95
80, A80, B80, 88	Lyc. IGSO-540-AID	4	J-7525-1 &	\$93.95	180	Cont. O-470-A, J	2 ea.*<	-J-3804-14	\$116.95
		4	J-6545-1	\$62.95	100	0 0.470.17	l . `	J-3804-15	
C90, C90A	PWC PT6A-21	6	LM427SA7	\$1,070.95	180	Cont. O-470-K	4	J-6545-1	\$62.95
E90, F90	PWC PT6A-28,-135,-135A	6	LM427SA7		180A-H	Cont. 0-470-K, R	4	J-6545-1	\$62.95
H90 [°]	PWC PT6A-34B	6	LM427SA7		180H, J	Cont. O-470-R, U	4	J-6545-1	\$62.95
95, 95A, 95B	Lyc. IO-360-B1B	8	J-7402-1	\$58.75	182, 182A-R 182, 182A-N	Cont. O-470-R, U Accessory Mount	4	J-6545-1 J14290-4	\$62.95 \$24.60
D95A, E95	Lyc. IO-360-B1B	8	J-7402-1	\$58.75	182H-N	Panel Mount		J-6984-64	\$12.90
A100	PWC PT6A-28	6	LM427SA7	\$1,070.95	T182	Lyc. O-540-L3C5D	4	J-9613-12	\$98.75
B100	GA TPE331-6-252B	4&2*	LM821SA49		TR182	Lyc. O-540-L3C5D	4	J-9613-12	\$98.75
			LM821SA50	\$3,263.85	185, 185A-E	Cont. IO-470-F	4	J-6545-1	\$62.95
200, 200C, 200CT	PWC PT6A-41	8	LM427SA7	\$1,070.95	185	Cont. IO-520-D	4	J-6545-1	\$62.95
A200/C/CT	PWC PT6A-41	8	LM427SA7		A185F	Cont. IO-520-D	4	J-6545-1	\$62.95
B200	PWC PT6A-42	8	LM427SA7		188	Cont. O-470-R	4	J-6545-1	\$62.95
C90,E90,C99,200/C	Overhaul kit for Barry		00.00.100	#005.00	188	Cont. IO-520-D	4	J-6545-1	\$62.95
/CT, A200/C/CT, B200/C/CT/T	Controls P/N5906-2SA5	8	08-00402	\$225.00					
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NOTE: * indicates more than one Lord Part No. needed

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295
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LORD ENGINE MOUNTS

		No.					No.		
Aircraft Model	Application / Engine	per A/C	Part No.	Price	Aircraft Model	Application / Engine	per A/C	Part No.	Price
CESSNA cont.			ĺ		M20E (1969-75)	Lvc. O-360-A1A	4	J-9613-12	\$98.75
188	Cont. IO-520-D	2 ea.* <	J15198-1	\$296.95	M20F (1966-77)	Lyc. O-360-A1A	4	J-9613-12	\$98.75
188A, 188B	Cont. IO-520-D	2 ea.*/	J15198-2	\$344.95	M20G (1968-70)	Lyc. O-360-A1D	4	J-7402-1	\$58.75
205, 205A	Cont. O-360-B4A	4	J-6545-1	\$62.95	M22 (1966-70)	Lyc. TIO-541-A1A	4	J-10520-1	\$105.95
206, 206A IO-520A	Cont.	2 ea.*			M20J (1976-up)	Lyc. IO-360-A3B6D	4	J-9613-40	\$99.50
206B IO-520F	Cont.	2 ea.*\	J12453-1	\$118.95	M20K (1979-85)	Cont. TSIO-360-GB1	4	J-9613-58	\$157.95
U206T TSIO-520C	Cont.	2 ea.* /	J12453-2	\$111.95	M20K (1979-85)	Cont. TSIO-360-GB3	1/3* <	J-9613-75	\$286.95
U206 IO-520F	Cont.	2 ea.*/			M20K (1979-85)	Cont. TSIO-360-GB4	1/3*	and	Ψ200.00
U206,A,E	Panel Mount		08-00403	\$12.90	M20K (1979-85)	Cont. TSIO-360-LB1B	1/3* /	J-9613-76	\$265.95
U206G	Cont. IO-520-F	2 ea.*			M20K (1986-up)	Cont. TSIO-360-MB1	1/3* ′		
TU206A-F	Cont. TSIO-520-C	2 ea.*\			NAVION AIRCRAFT				
T206G	Cont. TSIO-520-M	2 ea.* \	\		G, H	Cont. IO-470-H or IO-520-B	4	J-7518-4	\$288.95
P206, P206A-E	Cont. IO-520-A	2 ea.*	J12453-1	\$118.95	PIPER	•			
P206T, P206T A-E	Cont. TSIO-520-C	2 ea.*	J12453-2	\$111.95	PA-23	Lyc. O-320-D2	8	J-6230-1	\$79.95
207, 207A	Cont. IO-520-F	2 ea.*	1		PA-23-160	Lyc. 0-320-B2	8	J-6230-1	\$79.95
207A II	Cont. IO-520-F	2 ea.*	1		PA-23-235	Lyc. OI-540-B1A5	8	J-3804-20	\$93.25
207T	Cont. TSIO-520-G	2 ea.*/			PA-23-250	Lyc. O-540-A1B5, A1D5	8	J-3804-20	\$93.25
T207A, T20A II	Cont. TSIO-520-M	2 ea.*/	1.0545.4	#00.0F	PA-23-250 (6)	Lyc. IO-540-C1B5, A1D5	8	J-3804-20	\$93.25
210, 210A-C	Cont. IO-470-E, S	4	J-6545-1	\$62.95	PA-23-250 (6)	Lyc. IO-540-C4B5	8	J-9613-12	\$98.75
210 D-J 210 K-R	Cont. IO-520-A, J Cont. IO-520-L	2 ea.* < 2 ea.* <	J-12453-1 J-12453-2	\$118.95 \$111.95	PA-23-250 (6)	Lyc. IO-540-J4A5	8	J-9613-12	\$98.75
	Panel Mount	2 ea.			PA-23-250	Lyc. IO-540-C4B5	8	J-9613-12	\$98.75
210 K, L T210M, N	Cont. TSIO-520-R	2/1/1*,	J-6984-64	\$12.90	PA-23-250T	Lyc. TIO-540-C1A	8	J-9613-12	\$98.75
T210 F-L	Cont. TSIO-520-N	2/1/1 2 ea.*\	J-12453-1	\$118.95	PA-24-180	Lyc. O-360-A1A	4	J-7402-5	\$78.75
P210M, N	Cont. TSIO-520-C, F	2/1/1*	J-12453-1 J-12453-2	\$111.95	PA-24-250 PA-24-260	Lyc. O-540-C1B5, A1A Lyc. IO-540-E4A5, D4A5	4 4	J-3804-20 J-3804-20	\$93.25 \$93.25
T210M, N T210R (1985-86)	Cont. TSIO-520-AF, P	4/2* /	0-12400-2	ψιιι.95	PA-24-260 PA-24-260	Lyc. IO-540-E4A5, D4A5	4	J-3804-20 J-3804-30	\$151.95
P210 R (1985-86)	Cont. TSIO-520-CE	4/2*			PA-24-400	Lyc. IO-720-A1A, A1B	'	J-9613-9	\$122.95
310B	Cont. O-470-M	8	J-6545-1	\$62.95	PA-25-235	Lyc. O-540-B2C5,B2B5	4	J-3804-20	\$93.25
310C-H	Cont. IO-470-IVI	8	J-12390-1	\$128.95	PA-25-260	Lyc. O-540-E4	4	J-3804-20	\$93.25
310JQ	Cont. IO-470-U, V, VO	8	J-12390-1	\$128.95	PA-28-140	Lyc. O-320-E2A	4	J-7402-16	\$55.50
310R	Cont. IO-520-M, MB	8	J-9613-58	\$157.95	PA-28-140	Lyc. O-320-E2A	2	J-9613-40	\$99.50
T310 P, Q, R	Cont. TSIO-520-B, BB	8	J-9613-58	\$157.95	PA-28-140	Lyc. O-320-E3D	2 ea.*	J-9613-40	\$99.50
320, 320A-C	Cont. TSIO-470-B, D	8	J-7764-4	\$172.95	PA-28-150	Lyc. O-320-A2B	4	J-9613-53 J-7402-16	\$99.25
320 D-F	Cont. TSIO-520-B, BB	8	J-9613-58	\$157.95	PA-28-150	Lyc. O-320-A2B*	4	J-7402-16 J-7402-24	\$55.50 \$76.95
337, 337A-H	Cont. IO-360-C, D, G	8	J-9613-31	\$158.95	PA-28-150	Lyc. O-320-E2A	4	J-7402-16	\$55.50
T337B-G	Cont. TSIO-360-A, H	8	J-9613-31	\$158.95	PA-28-151	Lyc. O-320-E3D	2 ea.*	J-9613-40	\$99.50
P337H	Cont. TSIO-360-C, CB	8	J-9613-31	\$158.95		,		J-9613-53	\$99.25
340	Cont. TSIO-520-K, KB	8	J-9613-58	\$157.95	PA-28-160	Lyc. O-320-B2B	4	J-7402-16	\$55.50
340A	Cont. TSIO-520-NB	8	J-9613-58	\$157.95	PA-28-160	Lyc. O-320-D2A**	4	J-7402-16	\$55.50
401, 401A,B	Cont. TSIO-520-E, EB	8	J-9613-58	\$157.95	PA-28-160	Lyc. O-320-D2A	4	J-7402-24	\$76.95
402, 402A,B	Cont. TSIO-520-E, EB	8	J-9613-58	\$157.95	PA-28-161	Lyc. O-320-D3G	2 ea.*	J-9613-40	\$99.50
402C	Cont. TSIO-520-VB	8	J-9613-58	\$157.95	PA-28-180	Lyc. O-360-A3A	4	J-9613-53 J-7402-24	\$99.25 \$76.95
404	Cont. GTSIO-520-M	8	J-9613-54	\$151.95	PA-28-180 PA-28-180	Lyc. O-360-A3A Lyc. O-360-A4A	4	J-7402-24 J-7402-24	\$76.95
411, 411A	Cont. GTSIO-520-C	8	J-9613-54	\$151.95	PA-28-180	Lyc. O-360-A4A, M***	4	J-9613-40	\$99.50
414, 414A	Cont. TSIO-520-J, NB	8	J-9613-58	\$157.95	PA-28R-180	Lyc. O-360-B1E	4	J-9613-40	\$99.50
421, A, B	Cont. GTSIO-520-D, H	8	J-9613-54	\$151.95	PA-28-181	Lyc. O-360-A4M	4	J-9613-40	\$99.50
421C	Cont. GTSIO-520-L, N	8	J-9613-54	\$151.95	PA-28R-200	Lyc. IO-360-C1C	4	J-9613-40	\$99.50
COMMANDER AIRC	RAFT CO.				PA-28R-201	Lyc. IO-360-C1C, C1C6	4	J-9613-40	\$99.50
112, 112B	Lyc. O-360-C1D6	2 ea.*_	J-9613-40	\$99.50	PA-28R-201T	Cont. TSIO-360-F, FB	4	J-9613-58	\$157.95
112T, TCA	Lyc. IO-360-C1A6D	2 ea.* `	J-9613-53	\$99.25	PA-28-235	Lyc. O-540-B2B5	4	J-3804-20	\$93.25
114	Lyc. IO-540-T4A5D	4	J-3804-28	\$83.50	PA-28-235 PA-28-235	Lyc. O-540-B1B5 Lyc. O-540-B4B5	4 4	J-7402-20 J-7402-20	\$88.25 \$88.25
GRUMMAN AMERIC	CAN				PA-28-235	Lyc. O-540-B4B5****	4	J-3804-27	\$108.95
AA-1	Lyc. O-235-C2C	8	J-6113-5	\$41.90	PA-28-236	Lyc. O-540-J3A5D	4	J-9613-12	\$98.75
AA-1A, B	Lyc. O-235-C2C	8	J-6113-5	\$41.90	PA-30	Lyc. IO-320-B1A1C1A	8	J-9613-19	\$106.95
AA-1C (Tomcat)	Lyc. O-235-L2C	4	J-7402-24	\$76.95	PA-31-300	Lyc. IO-540-M1A5	8	J-9613-30	\$162.95
AA-1C (Lynx)	Lyc. O-235-L2C	4	J-7402-24	\$76.95	PA-31	Lyc. TIO-540-A1A,	8	J-9613-12	\$98.75
AA-5	Lyc. O-320-32G	4	J-7402-24	\$76.95	DA 04 046	or A1B, A2C, A2B		10045 :5	000 ==
AA-5A	Lyc. O-320-32G	4	J-7402-24	\$76.95	PA-31-310	Lyc. TIO-540-A2C	8	J-9613-12	\$98.75
AA-5B (S/N 1-399)	Lyc. O-360-A4K	4	J-9613-49	\$101.95	PA-31-325 PA-31-350	Lyc. L/ TIO-540-F2BD Lyc. L/ TIO-540-J2BD	8 8	J-9613-12 J-9613-29	\$98.75 \$133.95
AA-5B, AG-5B	Lyc. O-360-A4K	4	J-9613-59	\$167.95	PA-31-350 PA-31P-350	Lyc. TIO-540-V2AD		J-9613-29 J-9613-53	\$99.25
EXTRAFLUGZEUGE					PA-31P	Lyc. TIGO-541-E1A	8	J-9613-30	\$162.95
260	Lyc. AEIO-540-D4A5	4	J-7764-20	\$130.95	PA-31T-1, -500	PWC PT6A-11	6	LM423SA2	
LAKE AIRCRAFT					PA-31T-620	PWC PT6A-28, 135	4	LM423SA2	\$889.00
LA-4A	Lyc. O-360-A1A	4	J-7402-6	\$112.95	PA-31T-620XL,-31T2		2	LM423SA22	\$806.50
LA-4-200	Lyc. O-360-A1B	4	J-7402-6	\$112.95	PA-32-260	Lyc. O-540-E4B5	4	J-7402-20	\$88.25
MAULE AIRCRAFT		•	•		PA-32-260 (s/n 570-up)		4	J-3804-27	\$108.95
M-4 (Jetasen)	Cont. O-300-A, B	4	H-3006-1	\$16.50	PA-32-300	Lyc. IO-540-K1A5	4 4	J-3804-27	\$108.95
M-4 (Rocket)	Cont. IO-360-A	4	J-7764-10	\$161.95	PA-32-300 PA-32R-300	Lyc. IO-540-K1G5, K1A5 Lyc. IO-540-K1G5D	4	J-3804-40 J-3804-31	\$97.75 \$147.95
M-4 (Explorer)	Cont. O-300-A, B	4	H-3006-1	\$16.50		Lyc. IO-540-K1G5D	4	J-3804-31	\$97.75
M-5-180	Lyc. O-360-C1F	4	J-6230-1	\$79.95	PA-32RT-300	Lyc. IO-540-K1G5	2 ea.	J-3804-40	\$97.75
M-5-210C	Cont. IO-360-D	4	J-7764-10	\$161.95	PA-32RT-300T	Lyc. TIO-540-51AD	2 ea.	J-3804-37&	
M-5-235C	Lyc. O-540-J1A5D	4	J-7764-20	\$130.95				J-3804-39	\$263.95
M-7-235	Lyc. O-540-J1A5D	4	J-7764-20	\$130.95	PA-32-301	Lyc. IO-540-K1G5D	2 ea.	J-9613-19 &	\$106.95
MOONEY AIRCRAF					PA-32R-301	Lyc. IO-540-K1G5D	2 ea.	J-9613-12	\$98.75
M20	Lyc. O-320	4	J-6230-1	\$79.95	PA-32-301T	Lyc. TIO-540-S1AD	2 ea.	J-9613-19 &	
M20A (1958-1960)	Lyc. O-360	4	J-7402-16	\$55.50	PA-32R-301T	Lyc. TIO-540-S1AD	2 ea.	J-9613-55	\$139.95
M20B (S/N1701-1939)	Lyc. O-360-A1D	4	J-7402-1	\$58.75	PA-34-200 PA-34-200, 200T	Lyc. L/ IO-360-C1E6 Cont. TSIO-360-E, EB	8 8	J-9613-40 J-9613-58	\$99.50 \$157.95
M20C(S/N1940-20-1258)		4	J-7402-1	\$58.75	PA-34-200, 2001	Cont. L/ TSIO-360-E, EB	4	J-9613-58	\$157.95
M20D (S/N101-260)	Lyc. O-360-A2D	4	J-7402-1	\$58.75	PA-36-285	Cont. 6-285	4	J14090-7	\$499.50
M20E (S/N101-470)	Lyc. O-360-A1A	4	J-7402-16	\$55.50	PA-36-300	Lyc. IO-540-K1G5	4	J-3804-31	\$147.95
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AIRCRAFT SPRUCE WEST CORONA, CA · (877) 4-SPRUCE

ENGINE MOUNTS

LORD ENGINE MOUNTS (continued from p.266)

		`		• /			
Aircraft Model	Application / Engine	# per A/C	Part No.	Price			
PIPER cont.							
PA-38-112	Lyc. O-235L2C	4	J-7402-16	\$55.50			
PA39	Lyc. IO-320-B1AC1A	8	J-9613-19	\$106.95			
PA-44-180	Lyc. 0-360-E1A6D	8	J-9613-40	\$99.50			
PA-44-180T	Lyc. T0-360-E1A6D	8	J-9613-40	\$99.50			
PA-46-310P	Cont. TSIO-520-BE	4	J-9613-55	\$139.95			
PA-46-350P	Lyc. TIO-540-AE2A	8	J-9613-55	\$139.95			
PA-60-360	Lyc. IO-360-E1A	8	J-9613-19	\$106.95			
PA-60-600A	Lyc. IO-540-K1F5	8	J-9613-9	\$122.95			
PA-60-600B	Lyc. IO-540S1A5	8	J-9613-9	\$122.95			
PA-60-601P	Lyc. IO-540S1A5	8	J-9613-9	\$122.95			
SIAI MARCHET	ΓI – ITALY						
S-205-18F, R	Lyc. O-360-A1A	4	J-10778-4	\$173.95			
S-205 / 20F, R	Lyc. IO-360-A1B6D	4	J-10778-4	\$173.95			
S-208	Lyc. O-540-E4A5	4	J-3804-20	\$93.25			
S-210, 210H	Lyc. TIO-360-A1A	8	J-9613-45	\$206.95			
TAYLORCRAFT							
20	Cont. O-470-A	2 ea.*	J-3804-14&	\$116.95			
			J-3804-15	\$142.95			
F-21	Lyc. O-235	4	J-7402-24	\$76.95			
VARGA	VARGA						
2150A	Lyc. O320-A2C	4	J-7402-1	\$58.75			
2180	Lyc. O360-A4D	4	J-7402-1	\$58.75			

NOTE: * indicates more than one Lord Part No. needed

LOCKING TAB WASHER - Used to lock mounting bolts to Lord Mounts. This Continental P/N 50186 is similar to Cessna P/N 08-51559-1. P/N 08-50186-7\$0.98 ea.

COWL MOUNTS

Cessna150,172,177	P/N J-7444-14	\$9.80
Cessna 182	P/N J-7444-24	\$18.90

VIP (Vibration Isolation Products) ENGINE MOUNTS STC'd FOR CERTIFIED AIRCRAFT

VIP P/N	Lord Equiv.	Barry Equiv	Price ea.
50545-1	J6545-1	94110-40	\$59.00
50525-1	J7525-1	94110-40	\$74.00
50804-10	J3804-10		\$55.00
50804-20	J3804-20	94110-01	\$76.00
101-78	For Dehavillar	nd/Sikorsky	\$49.70
101-79	For Dehavillar	\$49.70	

VIP ENGINE MOUNTS FOR EXPERIMENTAL AIRCRAFT

Spruce P/N	Lord Equiv.	Barry Equiv	Price ea.
08-00774	J9613-49	94110-20	\$57.00
08-00775		94016-08	\$56.80
08-00776	J15198-1		\$63.90
08-00777	J15198-2		\$63.90



DYNAFOCAL SANDWICH MOUNTS

FOR HOMEBUILT AIRCRAFT
Sandwich assemblies of natural rubber and specially blended synthetic compounds bonded to 2 metal plates. Normal installation requires 4 assemblies, each consisting of 2 sandwich mountings and 1 spacer. Satisfactory per-

formance requires that the spacer be designed to the correct length to precompress each mounting to guarantee proper positioning of the mountings. Set consists of eight bonded sandwich mountings equivalent to Lord Mount No. J-7402-5 and four 4130 steel spacers with mounted rubber shoulder. Use with dynafocal engine mount rings using 2-3/4" I.D. retainer cups. Used on many homebuilts including the Defiant and Long-EZ 50402-5 w/4 spacersP/N 08-03500\$239.80



SPECIAL HEAVY DUTY **DYNAFOCAL MOUNT SETS**

Designed for use on aerobatic aircraft such as Pitts Special, Christen Eagle and Acro. Same

style as homebuilt type but inner core has been "beefed up" and elastomers added to encapsulate the spacer. Set of 8 Mountings ...P/N 08-03600.... 50401-300 w/4 Spacers......

DISCOUNT: LESS 10% ON 6 SETS, 15% ON 10 SETS, 20% ON 20 SETS

BARRY ENGINE MOUNTS

Barry Controls has actively supported the general aviation market since 1981 and holds PMA approvals on a wide range of engine mounts. Barry mounts are warranted for 500 hours or 12 months and feature outstanding quality & value. Call for unlisted part numbers.

Aircraft Model	Barry P/N	S/N Engine	Price Ea.
Beech 77	94150-40		\$55.95
19A, B19, 23, C23	94150-40	IO-520B,BB,BA	\$59.95
S35, V35, A, B	7351231-3	IO-520	\$75.95
C33A, E33A, C, F33A, C	7351231-3	IO-520	\$75.95
36, A36, V35A-TC	7351231-3	IO-520, TSIO-5200	\$75.95
56TC, A56TC,60,A60,B60	94011-04	,	\$95.95
Cessna			
152, 152A	94150-40		\$55.95
172, I, J, K, L, M, N	94011-20		\$75.95
175A,B,C, 182A,B,E-J,M-R	94110-40		\$55.95
R182,TR182,T182,182R	94011-02		\$77.95
185, A, E, F, 188 206, U206, P206A-P206E	94110-40 94030-01(2)		\$55.95 \$87.00
207, A, T207, A	94030-01(2)		\$87.00
210D, A thru C	94110-40		\$55.95
210D thru H.J	94030-01(2)		\$87.00
310A, B, C	94110-40		\$55.95
310R, T310P, T310Q	94006-01		\$113.95
337A-F, P337H, T337B-F	94017-01		\$123.95
340, A, 401A, B, 414A	94006-01		\$113.95
404, 411, A, 421A-C	94001-01		\$135.95
Maule	04040.04		Φ110 0F
M-4-210C, S-T, M-5-210C Maule M-5-235C, M-6-235	94016-01		\$116.95 \$112.05
Moonev	94016-02		\$112.95
M20F	94011-02	IO-360-AIA	\$77.95
M20J	94011-20		\$75.95
M20K	94006-01	TSIO-360	\$113.95
M20A, D, B, C, G	94150-40	0-360-AIA,-D,(-AID)	\$55.95
Neico			
Lancair 235	94150-41	0-235	\$104.95
Lancair 320	94150-41	0-320	\$104.95
Lancair 360 Lancair IV	94150-41	0-360	\$104.95
Lancair ES	94011-01(2) 94011-20(2)	TIO-550, TIO-520	\$104.95 \$75.95
Piper	94011-20(2)		\$15.55
PA28-140	94150-01	20002-24999	\$59.95
PA28-140	94011-02 (2)	25000-7125641	\$77.95
PA28-140	94011-20 (2)	7225001+UP	\$75.95
PA28-140	94011-02 (2)		\$77.95
PA28-140	94011-20	5150-UP Archer	\$75.95
PA28-150	94150-01		\$59.95
PA28-160	94150-01		\$59.95
PA28-151	94011-02 (2)	0-320 E3D	\$77.95
PA28-151 PA28-161	94011-20 (2) 94011-02 (2)	1791-4377,0-360A4M	\$75.95 \$77.95
PA28-161	94011-20 (2)	4378-5149, 0-360	\$77.95 \$75.95
PA28-180	94150-01	4378-5149, 0-365	\$59.95
PA28-180	94150-01	4378-5149, 0-360	\$59.95
PA28-180	94011-20	5150- UP Archer	\$75.95
PA28-181	94011-20		\$75.95
PA28R-180	94011-20	30001 - UP	\$75.95
PA28R-200	94011-20	35001-7135329, 1103	\$75.95
DA 00D 000	04044 00	10360 CIC	675.05
PA28R-200	94011-20	7235001-UP	\$75.95 \$113.05
28R-201T 28R-201	94006-01 94011-20	TSIO-360-F 7737002-UP	\$113.95 \$75.95
PA28R-201T	94011-20	7737002-0P	\$116.95
PA28-236	94011-02	0540J3A5D	\$77.95
PA24-250	94110-01	0-540-A1A	\$77.95
PA24-260	94110-01	IO-540E or D4A5	\$77.95
PA24-400	94011-04	IO-720	\$95.95
PA32-300	94110-02	IO-540 KIG5	\$84.00
PA32R-300	94110-02	IO-540 KIGS	\$84.00
PA32RT-300	94110-02	IO-540 KIGS	\$84.00
PA32-301 PA32-301	94011-02 (2)		\$77.95
PA32-301 PA32R-301	94011-03 (2) 94011-02 (2)		\$83.95 \$77.95
PA32R-301	94011-02 (2)		\$77.95 \$83.95
PA38-112	94150-01	0-235	\$59.95
36-300	94110-02		\$84.00
PA25-235	94110-01		\$77.95
PA25-260	94110-01		\$77.95
PA46-310P	94011-01		\$104.95
PA46-350P	94011-01		\$104.95
Vans RV-3, RV-4, RV-6	94011-20 (Std)		\$75.95
	94016-08(Aerobatic)		\$135.00

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297

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HEAT BOXES – EXHAUST COMPONENTS

WARM/COOL AIR SELECTOR/MIXER



This unit has not only the capability of providing warm air to the cockpit, but also cool air, or both. There are two parts to the unit. The "T" section (engine side of firewall) has a flapper to direct cool air from one side and/or warm from the other side. This section is designed to be riveted or bolted to the firewall. The short expanded section slips over the protruding

tube and is clamped with a stainless steel hose clamp. The flap in this section closes off all air from the unit. The hose clamp, a gasket and 4 stainless steel blind rivets are furnished. The shafts, arms, and flapper valves are all stainless steel. The bushings are brass and the tubing is 2" O.D. 6061-T4. Weight: 5.2 oz. P/N 08-00629\$98.75 ea.

DELUXE HOMEBUILDER'S CABIN HEAT BOX

This cabin box is a modification of our popular standard heat box. Re-engineered as a one-piece unit

with two tube-end outlets, rather than one tube-end outlet and one flush outlet; it is smooth, efficient and very light. Originally designed for use on the popular RV series of aircraft, it is applicable to most homebuilts. They are constructed of aircraft grade aluminum and weigh only 5.5 oz. The new design enables the cabin box to be more easily mounted to the forward face of the firewall with the 2" outside diameter outlet tube extending through the firewall; and is useful in ducting hot exhaust air out of the plenum area. (Both the inlet and outlet tubes are 2" outside diameter.) The outlet tubes are designed to accept a 2" inside diameter "Y" tube for leak-free ducting of warm air to more than one location. Cabin boxes are furnished with a gasket and four LP4-3 pop rivets for installation on the firewall. Superior craftsmanship and quality.

P/N 08-04005.....\$146.95

Also available: Identical to the regular deluxe cabin heat box P/N 08-04005 with these exceptions: •Stainless steel mounting surface, box to firewall •Steel shaft and stainless flapper.

Extra protection in case of high temperatures, no smoke or flame could

DELUXE HOMEBUILDER'S CABIN HEAT BOX – ALL STAINLESS This cabin heat box is identical to the Deluxe Homebuilder's Cabin Heat

Box except that the tubing that goes through the firewall and the mounting flange are also stainless steel for extra protection from fire. Features one inlet (2"O.D.) & two outlets (2"O.D.). All stainless except bushings. P/N 08-04025......\$105.95 ea.

CARBURETOR HEAT BOX FOR ELLISON TBI



The carburetor heat box and air grid are designed specifically for the Ellison TBI to eliminate carburetor icing problems. There must always be a constant flow of air through a heat muff. The carburetor heat box has an automatic dump of hot air when carb heat is not being used, thereby eliminating the chance of heat muff burnout. The box has a 2.5" inlet for ram air and a 2" inlet for carb heat. The box is made of 5052 aluminum, stainless steel and 6061-T4 tube. The mounting surfaces, shaft, flapper, arm and rivets are stainless. In addition, the box is strengthened in the mounting hole area to eliminate the possibility of metal fatigue. A 4"

inspection/ mounting hole with a cover plate secured by nut plates and screws is locate on the bottom of the box (not visible in the photo.) The purpose of the air grid is to eliminate air flow turbulence. The 1/2" stainless steel vanes straighten the air before it reaches the throat of the carburetor and achieves better air/fuel distribution. This is a proven performance enhancement technique.

 Carburetor Heat Box
 P/N 08-00813
 \$145.95

 Air Grid (w/one gasket)
 P/N 08-00814
 \$67.50

 Extra Gaskets
 P/N 08-00815
 \$2.80

HOMEBUILDERS CABIN HEAT SHUTTLE KIT

Easily assembled and designed so that it can be modified for custom applications. Kit includes construction plans and directions along with installation hints for the popular Vans RV series of homebuilt aircraft. Controlled by ratchet type control cable such as ACS model A740 (P/N 05-12500). Order control cable separately.

P/N 08-04460**\$42.90**

HOMEBUILDER'S CABIN HEAT BOX



This cabin box has been engineered to be the smoothest, most efficient and lightest heat box built. Fabricated from aircraft-grade aluminum with stainless steel shaft, arm and flapper. Originally designed for use on the popular RV-4 homebuilt, but is applicable to most other designs. Total weight is only 5.2 oz. Furnished with a gasket flange for the forward side of the firewall for leak-free ducting of warm air to anywhere the builder wants it. Inlet and outlet are 2" OD

6061-T4 seamless aluminum. The body of the box is constructed of 5052-032 aluminum. Can be either riveted or bolted to the firewall of aircraft. The mounting flanges have holes for both bolts and rivets. The outlet tube extends through the firewall so that scat tubing can be attached to route the warm air. 4 stainless steel blind rivets and a mounting gasket are furnished. Superior craftsmanship and quality.

P/N 08-04000**\$79.00 ea.**

TUBING CONNECTORS



2" ALUMINUM FLANGE - Accepts 2" scat tube. Flange allows riveting to firewall, baffles, etc. Wt: 0.2

P/N 08-04135..... **\$7.90**



CARB HEAT CONNECTOR - Mounts on FAB airbox or similar airbox. Flange accepts 2" scat tube from muff. Standoff design allows hot air to escape when carb heat is not selected. Weight: 0.9 oz.

P/N 08-04145...... \$13.50



FLANGED DUCT - Accepts 2" ducting on both ends. Helps route ducting through bulkheads, firewalls, etc. Especially useful for getting heat to the back seat of the aircraft. 3" square plate with 2" tubing projecting 1" from each side. Wt:0.7 oz.

P/N 08-04140 \$11.35

CABIN HEAT BOX

Custom built aluminum box mounts to firewall. Lever on butterfly may be attached to push-pull control for close adjustment of cabin air flow. Two 2" intake ports, one 2" outlet. Wt. 1 lb. 7-1/2" long. Fine quality construction. P/N 08-01500\$99.00



HOMEBUILDER'S HEAT MUFFSThese superior quality heat muffs are made entirely of



6061 and 5052 aircraft grade aluminum, offset from the center to clear the close cowling of most homebuilts. The muff can be installed anywhere on the exhaust system where there is 12" of straight pipe, baffle, or even on an aft vertical baffle. The reason for using forced air through the muffs rather than just taking warm air from the low pressure plenum is that in order to have cabin heat you have to have forced air. The muff is constructed so that it can be used for

P/N 08-00473 either cabin heat or carb heat, or both, as there is 1 outlet & 1 inlet. The muff is split and piano-hinged to "clam-shell" over the exhaust pipe. This is necessary if you have downturns on your exhaust pipes and do not want to cut off the downturns should you later want to remove the muff. Stainless steel clamps are furnished with the muff. Inlet and outlets are 2" dia. and will fit 1.75" dia. pipes. The standard 9" body has 1 inlet & 1 outlet and generally used for cabin heat (wt:10.4 oz.). The shorter 6.5" body that definition and generally used on the front crossover section of the exhaust to duct heat to the carburetor box (wt: 8.9oz.).

Standard 9" bodyP/N 08-03900\$111.50

Standard 6.5" bodyP/N 08-00473\$111.50

HEAT MUFF ENDS



These heat muff ends clamp around the exhaust pipes in a crossover exhaust system in homebuilt aircraft. After the heat muff ends are clamped in place, the aircraft builder simply wraps a piece of aluminum

over them and attaches an air inlet and outlet to complete the heat muff. The heat muff ends can be assembled with #6 nuts and bolts or 1/8" pop rivets. Fabricated from Type 304 stainless steel and designed to fit 1.75" exhaust pipe tubing. Available as double ends (pic-

tured) or single stack ends. Sold in sets of two ends (four halves).

Double stack setP/N 08-06750\$35.00

Single stack setP/N 08-06755\$25.00

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298

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EXHAUST SYSTEMS



LONG-EZ EXHAUST SYSTEM

Long-EZ exhaust system fits all Lycoming 4 cylinder engines.

P/N 33804\$616.00



ONG-EZ EXHAUST SYSTEM **INSIDE THE COWL**

With this configuration the exhaust tips are located where the cooling air exits. This design eliminates cutting the cowling for exhaust exit and improves propeller efficiency by moving the exhaust pulses inboard,

closer to the center of the prop hub. Fits Lycoming O-320 & O-360 P/N 33804-1**\$806.00** parallel valve engines.



BERKUT 4 PIPE EXHAUST SYSTEM

Fits all Lycoming 4 cylinder engines. P/N 33803\$616.00



BERKUT 6 PIPE EXHAUST SYSTEM

..Fits 6 cylinder Berkut only. P/N 33803-6.....\$943.00



2" DIAMETER 90° TUBE

This unit is designed to slide over the end of the 2" O.D. tube protruding from a cabin heat box that extends through the firewall. The short end of this unit is expanded to 2" I.D. Two stainless steel clamps are furnished with the unit. If you use scat tube, the 90° angle allows

you to run the scat tube parallel to the firewall and away from undesirable areas (brake pedals, etc.) Constructed of seamless 6061T4 .028 wall tube. Weight: 1.4 oz. P/N 08-00863\$18.50

2 1/2" INLET and 2" OUTLET **HOMEBUILDERS CABIN HEAT BOX**



This box is identical to the deluxe stainless steel cabin heat box, except that the inlet is 2 1/2" OD so that it can be used on larger heat muff applications where the builder is using 2-1/2" scat tubing. This box is currently being used on the MICCO certified aircraft. Weight is 7.2 oz. P/N 08-04013\$93.50



STAINLESS STEEL FIREWALL PENETRATION SEAL KITS

The goal is to offer several extra minutes of protection in the unfortunate event of an engine fire. The fire protection time period is ultimately determined by the quality of the seal

formed by the homebuilder. The manufacturer has spent many hours designing and testing materials and procedures to make the assembly process straight forward and as fool proof as possible. The Firewall Penetration Seal Kit is a complete kit including all required components for installation. **FEATURES:** • Stainless Steel light weight fitting. Maintains integrity in excess of 2000° • Firesleeve tubing • All Stainless Steel hose clamps to secure firesleeve • Biotherm 100 silicone fireblock sealant • Complete instructions in the kit

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9	S/S Firewall Penetration	n Seal kit -	1/2"	P/N	09-00977	\$65.50
9	S/S Firewall Penetration	n Seal kit -	3/4"	P/N	09-00978	\$62.80
9	S/S Firewall Penetration	Seal kit -	1"	P/N	09-00979	\$81.00

VELOCITY EXHAUST SYSTEM



Velocity exhaust system fits 6 cylinder Lycoming parallel valve and angle valve engines.

ParallelP/N 33912\$725.00 AngledP/N 33912-A......\$725.00



LANCAIR LEGACY EXHAUST SYSTEM

Lancair legacy exhaust system, left & right hand maniflolds with tailpipes and cabin heat shroud. Fits IO-550 Continental. P/N 33805-1\$1,500.00

GLASAIR I & II CROSSOVER EXHAUST SYSTEMS



Fits Lyc. O-320 to O-360 with vertical induction.

P/N 33911 \$1,405,00 Fits Lyc. engines w/ horizontal induction up to 180HP

P/N 33911-1**\$1,295.00** Fits Lyc. IO-360 w/ horizontal induction - 200 HP

P/N 33911-2**\$1,295.00**



GLASTAR CROSSOVER EXHAUST SYSTEM

Includes exhaust system with (1) heater muffler, (1) non-heater muffler and tailpipes. Fits Lycoming O-235 and O-360 with vertical induction P/N 33274-1\$1,327.00



2" DIAMETER "Y" TUBE

"Y" tube is designed to be used with the Homebuilders cabin heat box to make warm air available to 2 or more locations in the aircraft. Constructed of seamless 2024T6 tube, it weighs

only 2 oz. These tubes are expanded to 2" I.D. on the inlet end to slip over and clamp to the 2" O.D. tube of the cabin heat box. Due to the very light weight, "Y" tubes can be installed in scat tubing as well as attaching directly to cabin heat boxes. One stainless steel clamp is included with "Y" tube. Due to the light weight of only 1.7 oz., the non-expanded Y-tube can be placed anywhere in a run of tubing to give more options for heating additional areas of the aircraft. Furnished w/2 stainless steel hose clamps

 Standard "Y" tube
 P/N 08-04100
 \$20.80

 Non-expanded "Y" tube
 P/N 08-04130
 \$21.35

IN-LINE HEATER/DEFROSTER VALVE



This in-line valve connects to 2" SCAT ducting. It comes complete with cable end and can be hooked up in any combination to direct air to either heater outlets or defrost outlets. Actuating lever is adjustable to any position. Very popular on RV's & other homebuilt aircraft. P/N 08-00053\$95.50

ALL STAINLESS STEEL FIREWALL MOUNTED HEATER VALVES



STAINLESS STEEL FIREWALL MOUNTED HEATER VALVE -This unit is designed for engine side control cable allowing the use of a ceramic felt gasket & backing plate on the cabin side of the firewall. This offers the opportunity to attach scat tubing in the cabin & direct hot air as desired through a "Y" or other means.

P/N 08-01311\$94.00



ALUMINUM FIREWALL MOUNTD HEATER VALVE - This unit has cabin side control cable reducing the required firewall penetration of control cable.

P/N 08-01312\$94.00

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299

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ENGINE ACCESSORIES



VHT FLAMEPROOF COATINGS

Originally designed for NASA's reentry spacecraft, VHT FlameProof is a scientifically formulated compound designed to withstand temps. up to 1500°F (816°C) VHT FlameProof coatings are capable of withstanding extreme environments of spacecraft, satellites, military aircraft, and motor sports. It survives where other paints can't, shields & protects, maintains the finish, prevents rust & corrosion, and resists oils & solvents. For

aircraft applications the typical use is on high temperature steel components such as exhaust & turbocharging systems. Excellent for use as a heat resistant and anti-corrosion coating on exhaust manifolds and turbine casings. Both the Flat Aluminum and Flat Black are non-facing colors.

Flat Aluminum 16 oz. aerosol si	orayP/N 08-00713	\$9.50
Flat Black 16 oz. aerosol spray		
Flat Black Quart Can		

EXHAUST COATINGS

Don't confuse our high-tech coating materials with paint! These materials actually bond to the metal to provide a thermal barrier and give permanent protection against corrosion. These are unique blends of high-temperature resins & ceramic powder. Provide extreme temperature stability and the most effective thermal barrier qualities of any coating on the market.



BLACK SATIN COATING

The easiest to apply, Black Satin also requires bead or sand-blasting of all parts. It does not, however, require oven curing or burnishing. One 4oz bottle will cover one average exhaust system and will provide a long-lasting flat black finish. 4 oz.P/N 13-01024\$19.95

EXHAUST HEAT SHIELD





This heat shield is placed on exhaust where fuel lines, cable, etc. are close to exhaust and where heat may be a

problem. Mounts with stainless radiator type clamp (not included). Fits exhaust pipes up to 2.5" diameter. Very popular on RV's and other homebuilt aircraft.

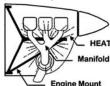
Single UnitP/N	08-00050 \$13.40
Double UnitP/N	08-00051 \$19.85

ENGINE MOUNT HEAT SHIELDS



Heat damaged O-470 & O-520 engine mounts are a definite problem area. You can easily protect these engine mounts from further damage with these heat shields The aircraft manufacturers overlook providing heat protection in these areas when they designed and produced the aircraft. INSPECT ENGINE MOUNTS. Flaking paint, deterioration or pitting leads to

cracking, and breakage – in other words, an <u>UNSAFE CONDITION</u>. If you want long-lasting protection from corrosion damage, the solution is install custom engine mount heat shields that are FAA & STC/PMA approved.



Avoid downtime and save money on airplane maintenance with this practical new device. The heat shields are built from an extremely durable 6061-T6 aluminum alloy and install in minutes. The complete kit includes installation hardware, instructions & copy of the Supplemental Type Certificate.

For Cessnas: Heat shield kit for 180, 180A-H, 180J, 180K, 182, 182A-R P/N 08-01660\$186.95

Heat shield kit 185A-E,A185F. Fits Standard and 3 bladed mounts.

P/N 08-00767**\$187.95**Replace. Intake Shields (heavy duty) PMA'd ..P/N 08-00769**\$27.00**Cowling Off Ground Run Filter for 1960-1986 carbureted Cessna 180/182
P/N 08-01665**\$56.00**

For Pipers: Heat shield kit for PA-30, PA-39 (4 shields prevent surging in hot weather) P/N 08-00768\$169.95



CARBURETOR INTAKE ASSEMBLIES (HEAT BOXES)

Continental Heat Box Ass'y P/N A40522 for Cont. A-65 through C-125. Also fits Lyc. 0-235, 0-290, 0-320 engines with MA3SPA, MA4SPA carburetors. Complete Ass'y includes heat box, filter, gaskets. studs and Pins.

COMPONENT	PART NO.	LIST PRICE	OUR PRICE
Heat Box	50256	\$388.60	\$138.95
Filter	A40599	81.00	\$67.25
Gasket	35923	6.75	\$5.20
Studs (4)	24306	2.90	\$2.70
Pins (4)	24308	15.70	\$15.60
Bottom Carb. Gasket	21323	2.30	\$1.40
A40522 Assembly	08-01300	522.38	\$265.35



CONT. 0-200 HEAT BOX CESSNA 170 STYLE HEAT BOX

(628122) for Cont. 0-200 engine as used on Cessna 150. Also fits Cessna 120, 140, and PA-

Heat box Cessna 170 - Similar to Cessna 150 box above except larger. P/N 08-01625**\$176.95**

Heat box for MA4-5 carburetors – similar to Cessna 170 box above. Fits Lyc. 0-360, 0-470, etc. Uses standard A40599 filter or brackets BA-5110. P/N 08-01630\$228.95

CARB HEAT BOXES FOR PUSHER AIRCRAFT

USHER CARBURETOR HEAT BOXES

These high quality carburetor heat boxes are available for most common Lycoming & Continental engines. Not FAA approved. (Shown la revite tube)



CARBURETOR INTAKE BOX BRACKET FOR CESSNAS

This carburetor intake box bracket mounts on top of the heat box and attaches to the engine to provide support for the heat box. Fits Cessna 150.

P/N 08-01305......**\$35.20**

CARBURETOR HEAT BOX REPAIR KITS



Prevent carburetor heat box cracking - a common problem on Cessna 150 aircraft and Cont. O-200 engine. Kit consists of actuating shaft, 2 bearing assemblies and arm. Kit no. FG100 fits Cont. 0-200-A, B, C

Engines. Kit No. FG105 fits Cont. 0-300-A, B, C, D, E engines.

Kit No. FG100\$52.25 Kit No. FG105\$54.50

ECONOMY CARB HEAT BOX REPAIR KITS



These kits include new shaft & bearings.
Kit for Cont. C-85, C-90, 0-200 Engine
P/N 07-00110\$34.70
Kit for Cont. C-145, 0-300 Engine
P/N 07-00120\$34.70

Requires FAA form 337 for installation on certified aircraft

CARB HEAT BOX ARM HOLE REPAIR KIT

Use this kit to repair an elongated hole in the carburetor heat box actuating arm. Kit comes complete with new bolt and attaching hardware made of stainless steel.

P/N 07-00130\$9.70



CARBURETOR INDUCTION MANIFOLD (INTAKE SPIDER)

For O-200 engine......P/N 35145A-1 ..**\$252.95** For A-65,C-75,C-85 & C-90 engines.

P/N 35145**\$245.95**

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EP

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ΕP

EXHAUST GASKETS – HEAT MUFFS



AERONCA HEAT MUFF

Aluminum muffs for models 7AC and 11AC exhaust stacks. Fit either left or right side. P/N 08-02300\$171.95



CESSNA TYPE HEAT MUFF

Heli-arc welded aluminum muff with rustproof stainless steel fins for clamping to stack. Similar in design to the new Cessna type. Furnished with attaching clamps.

Muff w/2" OutletP/N 08-02400..\$64.48 Muff w/ 2.5" Outlet P/N 08-02500..\$42.39



VARIEZE / LONG EZ CARBURETOR HEAT BOX

This box is an improved redesign of the original heat box. It eliminates the possibility of engine stoppage caused by worn parts plugging the carburetor intake. Without FilterP/N 08-01600 ..\$151.95 VE/LE Heat Box Repair KitP/N 08-01610\$17.75

YNAFOCAL ENGINE MOUNT RINGS & KITS



Standard rings furnished with 2-3/4" I.D. retainers, completely welded, ready for mount assembly. The Dynafocal ring kits contain all tubing cut and bent, with 2-3/4" I.D. retainers, ready to weld

Dynafocal Ring for Lyc. 0-235 to I0-360 (200 HP)	P/N 33521	\$136.95
Dynafocal Ring for Lycoming 0-320B	P/N 33521	·B \$136.95
Dynafocal Ring Kit for Lyc. 0-235 to I0-360 (200 HP)	P/N 33522	\$135.95
Retainer Cups & Rings Kit	P/N 33253	\$94.50
(includes 8 cups & 4 rings - everything in #33522 kit	above exce	pt the tubing)
Engine mount ring for most Lvc. I0-540's	P/N 08-007	95 \$185 00

EXHAUST MANIFOLD NUTS



Part No.	Thread Size	Туре	Engine Application	Price Each
21247	1/4-28	Brass	Cont. O-470	\$3.85
22022	5/16-24	Brass	Cont. A-65, C-75 thru C-90, O-200, O-300	\$0.86
STD1410	5/16-18	Steel	Lycoming	\$1.64

Retainer Cups for Engine Mount Bushings. P/N 33510... \$9.60 Ea.

BLO-PROOF EXHAUST GASKETS



These gaskets are manufactured in a 1-piece design in 7/64" thick steel. They have a split metal inner ring which provides an absolute seal and

they are guaranteed not to blow off. Engine manufacturer's parts Continental P/N 627429 for all A, C and E Series... Continental P/N 628260 for 0-470-R \$8.95 Ea \$6.50 Ea Lycoming P/N 77611 for 4 & 6 Cylinder Engines \$5.95 Ea



COPPER EXHAUST GASKETS

Continental P/N 21493 (now P/N 632837 stainless steel) Cont.#21493 for A-65 to 0-300 (4) P/N 08-05237..........\$1.25 Ea Cont. #632837 Stainless Steel

STAINLESS STEEL EXHAUST STUDS FOR LYCOMING ENGINES

These high quality exhaust studs are produced from corrosion resistant 321 stainless steel in 5/16 x 18 standard thread size (oversize available soon) and are a direct replacement for the Lycoming part number 31C12 stud. These studs stop stud corrosion and rust out problems, stop expensive cylinder repair costs cause by broken studs, allow easy removal of exhaust systems for gasket replacement or inspection, and feature a safety wire hole to insure security of the exhaust stack on each cylinder. FAA

approved for all Lycoming engines from 0-235 thru 0-540. P/N 08-06780.

EXHAUST INSULATING WRAP



The original Exhaust Insulating Wrap was developed over 14 years ago by Thermo-Tec. Exhaust Insulating Wrap is an innovative way to create more horsepower and reduce under-hood temperatures. Wrapping headers maintains hotter exhaust gases that exit the system

faster through decreased density. Increased exhaust scavenging is produced, along with lower intake temperatures. Exhaust Insulating Wrap withstands continuous heat up to 2000°F, and contains no asbestos. Thermo-Tec exhaust wrap will not over-insulate a system when properly installed due to a proprietary coating developed by Thermo-Tec -- Thermal Conduction Technology (TCT) -- that conducts heat across the wrap's surface. This coating controls heat build-up and dissipation. The Header Wrap is sold in 2" wide, 50'rolls with a low profile P/N 09-41600**\$42.95**

HI-HEAT COATINGTo finish off a clean and well-protected Exhaust Insulating Wrap application we recommended the use of Hi-Heat Coating. The coating will protect the wrap from abrasion and harmful liquid spills. Extra resins and binders toughen the surface, extend the life of wrap by protecting it from friction, and seal the pores to minimize the penetration of harmful liquids. The 11 oz. coating comes in black and aluminum colors.

BlackP/N	08-06725	\$8.80
AluminumP/N	08-06730	\$9.30



SNAP STRAPS

The multi-purpose stainless steel Snap Straps are used to secure the Exhaust Insulating Wrap -- and more. The hightemperature stainless steel straps have a narrow profile to fit tight spots. Snap Straps secure with easy-to-use slidethrough fasteners.

9" 12 pack P/N 08-13150.....\$22.50



ALUMINIZED HEAT BARRIER STOPS UNWANTED HEAT TRANSFER

Keep heat where you want it with this hi-tech aluminized heat blanket. Thickness, 0.060". Furnished in 36"x40". Sheets (10 Sq. Ft.)

P/N 08-06735.....\$73.50 ea.



STEEL EXHAUST STACK FLANGES

MILD STEEL

0	Cont. A&C Series,0-200,0-300	P/N 33011	
8 10	Lycoming 0-235 to 0-540	P/N 33021	\$7.90 Ea
	STAINLESS	STEEL	
Charles A.	Continental A & C Series	P/N 33101	\$11.60 Ea
	Continental IO-470 thru IO-520	P/N 33103	\$11.60 Ea
Lycoming 0-	-235 thru IO-360	P/N 33102	\$11.60 Ea
Lycoming IC	0-540	P/N 33104	\$11.60 Ea



AIRBORNE SOLID COPPER **BLO-PROOF GASKETS**

gaskets used per cylinder, with raised beads interlocked facing the exhaust stack flange. Eight required for 4 cyl. engine, 12 for 6 cyl. engine.

Engine Model Number	Airborne P/N (Use 2/Cyl.)	Price Each
All Lycoming Engines except IO-540-B,-E,-M,-WD, IGO-540-B, IGSO-540-B, TIO-540 series,TIO-541 series TIGO-541 series, I0-540-B,-E,-M,-WD,IGO-540-B,IGSO-540-B	160	\$10.40
TIO-540 Series, TIO-541 Series, TIGO-541 Series	161	\$10.80
A-65 Series, C-85 Series, C-90 Series,)-200 Series, O-300 Series, GO-300 Series, E-185 Series, E-225 Series, O-470-A, -E, -J, IO-470-J, -K	157	\$7.95



THERMO-GUARD FR

Thermo-Guard FR offers the best in head and sound insulation. This lightweight, durable shield does everything: reduces sound, absorbs vibration, protects from radiant heat and provides an

extra layer of insulating padding. The product features 100% synthetic fiber felt that provides sound and comfort control and high-tech foil heat barrier that blocks more than 90% of radiant heat.

48"x72" 1-SidedP/N 08-01028 48"x72" 2-SidedP/N 08-01029........\$49.90

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301

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EXHAUST INSULATING PRODUCTS

Ultra-high temperatures produced by today's engines have a dramatic effect on performance. Solution? Thermo-Tec's full line of high performance heat control products that focus on utilizing heat as a performance tool. For over 15yrs Thermo-Tec has been developing & manufacturing products for the Automotive Performance, Aerospace & OEM industries.



HIGH VELOCITY EXHAUST JACKET The quick-wrap high-velocity Exhaust Jackets are an innova-

tive way to insulate and block radiant heat. The jackets cover the tubes vertically allowing for a consistent fit. The fit allows the exhaust system to expand as it comes up to operating

the exhaust system to expand as it comes up to operations temperatures without restrictions and provides air space for added insulation. This product uses Thermal Conduction Technology (TCT), developed by Thermo-Tec, and can be applied with the headers in the vehicle.

4–6 cyl. kitP/N 08-00597\$67.95 8 cyl. kitP/N 08-00598\$88.95

8 cyl. kitP/N 08-00598**\$88.95**



SPARK PLUG WIRE HEAT SHIELD

The ultimate protection for spark plug wires and boots from conductive and radiant heat. The dual-purpose sleeve has a surface that reflects over 90% of radiant heat, while the inside silica-based fabric prevents conductive heat from penetrating. P/N 08-00612\$15.50



TURBO KIT

The Turbo Kit was designed to protect, improve performance, and eliminate turbo lag of a turbo charger. This complete kit, to contain the heat produced by a turbo, fits a wide variety of turbines. The custom cut-to-fit kit comes with an excessive amount of material to cover turbos from the smallest automotive application to heavy-duty truck applications. 2 Turbo Kits are available: a 4 cyl. kit & a 6 – 8 cyl. kit. 4 cyl. kitP/N 08-00613......\$89.95 6–8 cyl. kit....P/N 08-00614 ...\$104.95



EΡ

MUFFLER/CAT HEAT SHIELD KIT The 40"x 24" mylar Heat Shield is made up of woven silica with a flexible mylar finish. The highly-reflective heat shield can be installed between the catalytic converter, muffler, or



HEAT TERMINATOR ULTRA-LITE

Designed with the racer in mind, Heat Terminator is made of the highest-quality insulating materials available today. The material is made of a highly-textured aluminum com-

posite surface on one side, with a high-temperature silica felt center and a durable mylar composite facing. The Heat Terminator uses Thermal Conduction Technology (TCT), developed by Thermo-Tec. 8"x 12"......P/N 08-00617\$54.50 10"x 18"P/N 08-00618\$78.50 18"x 18".....P/N 08-00619\$94.95 18"x 24"P/N 08-00620\$99.95

24"x 24".....P/N 08-00621**\$107.50** 24"x 36"P/N 08-00622\$114.50



STARTER HEAT SHIELDIn today's high-heat environment, starters take in a lot of damaging heat that destroys the windings of the starter &

solenoid. To combat this problem, Thermo-Tec created a non-conductive strap-on heat shield with a highly-reflective mylar surface. The Starter Heat Shield will reflect over 90% of radiant heat, adding life to the starter and assuring reliable starts. The Starter Heat Shield is a universal kit that fits P/N 08-00611.....



THERMO SHIELD

Thermo-Shield protects hoses & wires from radiant heat. Used in applications where it is difficult or not practical to disconnect one end of the hose or wire. The adhesive-backed composite construction



THERMO-FLEX

Thermo-Flex Aluminum is a composite heat shield material with unlimited uses. The material is manufactured with a

combination of materials to provide abrasion-resistance, thermal insulation, and physical containment of hoses and wiring. The combination of aluminum, silica, and stainless steel is combined to produce a sleeving that is flexible, lightweight, and strong. The aluminum-silica combination can be slit for applications such as wire looms or hose covering without disconnecting the ends of the wire or hoses. Thermo-Flex Aluminum can withstand extreme temperatures of up to 750°F. Packaged in 10 ft. lengths.

5/8"P/N 08-00623	\$39.95	1.25"	P/N 08-00626	\$59.00
0.75"P/N 08-00624	\$45.20	1.5"	P/N 08-00627	\$66.25
1"P/N 08-00625	\$52.50	3"	P/N 08-00628	\$108.95

FIREPROOF SHIFTER BOOT
The Fireproof Shifter Boot is made up of woven silica with a flexible Mylar finish. The shifter boot was developed as a fire barrier for high speed engine fires, which can burn away rubber boots in seconds. P/N 08-00615 ...

COOL-IT MAT



Use the Cool-It Mat to battle excessive heat and noise that penetrate the driver compartment through the firewalls and floorboards. It is also perfect in doors, under hoods, and above transmission housings. Cool-It Mat is com-

posed of resin-bonded silica blanketing insulation sand-wiched between a mylar facing on one side and a foil facing on the other. The highly-reflective mylar reflects heat away from surfaces, while the foil side is orientated away from the heat source to conduct any penetrating heat across its surface thus providing the ultimate in heat protection. The silica blanketing is a duel-density composite and is the main sound insulator. It is easy to trim and can be applied with the push-in fasteners provided or any weather strip adhesive.

P/N 08-00610\$31.20



THERMO-SLEEVE

Lamination of a high-temperature fabric to a highly-reflective foil is the makeup of Thermo-Sleeve, which provides protection from radiant heat for hoses and wires. Thermo-

Sleeve's ultra light-weight construction provides more insulating than traditional bulky rubber-coated fiberglass. The aluminized sleeving reflects over 90% of radiant heat, and is fireproof & oil resistant. Comes

packaged in 12-ft lengths, and sold in 5 different inside diameter sizes.

12' 1/2" IDP/N 08-00605 ..\$44.90

12' 1' IDP/N 08-00606 ..\$59.50

12" 1-1/2' IDP/N 08-00609 \$103.95

HEAT BARRIER - ADHESIVE BACKED

Aluminized Heat Barrier is made up of woven silica with a flexible aluminized finish. The highly reflective surface of the material is capable of withstanding radiant temperatures in excess of 2000°F. The adhesive backed composite construction material can easily be applied to any surface or

wrapped around a hose or wire to make a clean professional appearance. 12" x 12"....P/N 08-00630**\$9.95** 12" x 24".....P/N 08-00600**\$17.40** 12" x 12"....P/N 08-00630**\$9.95**



for exhaust headers and manifolds. This flexible heat shield simply clips into place on the upper portion of the header. The fabric side of the material should be facing the heat source, and the

aluminized side facing away, offering protection from abrasion and harmful liquid spills. Available in two sizes: (2) 20" by 24" blankets for V6 & V8 applications, and (1) 36" x 40" blanket for straight 6 & 4 cylinder engines. 20"x24"......P/N 08-00603\$75.50

COOL-IT PLUG WIRE SLEEVES

This unique spark plug & ignition wire protector comes in five sporty colors; red, orange, blue, black & natural. These dual-purpose sleeves enhance performance, reduce misfires, extend plug wire life and will not react with petroleum products. The double-wall con-

struction keeps the wire and boot cooler in a high-temperature engine. Its universal size fits most boots, is easy to install & non-flammable. 4-PackP/N 08-01027.......**\$24.80** 6-PackP/N 08-01030**\$37.20**

GRAPHITE BLACK WRAP

Graphite Black Wrap offers the same unrivaled performance and insulating properties as our original exhaust wrap and more. Traditionally, high-heat coating spray had to be applied to the exhaust wrap to color it black. Now new Graphite Black

Wrap eliminates the process of coating the wrap with its patented Thermal Conduction Technology (TCT) high-heat color pigment. Graphite Black Wrap is available in 2" widths, in 50-ft rolls.

P/N 08-00596\$44.50

GENERATION II COPPER HEADER WRAP

Generation II Copper Header Wrap improves heat resistance up to 30% more than current technology, by utilizing a new proprietary coating developed by Thermo-Tec; improved Thermal-Conduction-Technology (T-C-T). Creates more horsepower & reduces underhood temps, increases exhaust scavenging, withstands continuous heat up to 2000°F, contains no asbestos. Sold in 1" or 2" wide, 50 ft rolls with low profile 1"X50......P/N 08-11031\$25.60

1/16" thickness 2"X50.....P/N 08-11032\$42.70



MICRO LOUVER AIR SHIELD

Lightweight yet durable, the aluminum Micro Louver Air Shield features micro air louvers, which allow air to flow through the metal shield. The movement of the vehicle

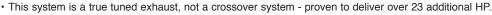
creates dynamic air flow, cooling by natural convection.
The textured surface created by the micro air louvers creates more area for heat dissipation. The Micro Louver Air Shield is flexible yet durable; it bends and flexes easily by hand, making a custom fit trouble-free.

	abic ii cc.	Justonn nit trot	naking a c
\$27.90	08-11710	P/N	12"X24"
\$43.80	08-11720	P/N	24"X24"
\$79.50	08-11740	P/N	48"X24"

AIRCRAFT SPRUCE WEST CORONA, CA · (877) 4-SPRUCE

POWER FLOW EXHAUST SYSTEMS

TUNED EXHAUST THEORY OF OPERATION



- Engines have an optimum length and diameter for each cylinder's exhaust primary length over 40" per
- Power Flow designed a way to fit over 3 feet of tubing per cylinder in the same space as a traditional exhaust muffler.
- Maintaining a separation of the exhaust gas pulses dramatically reduces exhaust pressurization from one cylinder to another - this creates a suction at the exhaust port improving the air mixture flow.
- Scavenging more exhaust gases from the cylinder increases the volumetric efficiency of that cylinder this provides for more efficient combustion and the production of optimum horse power.
- Improved volumetric efficiency reduces Cylinder Heat Temperatures (CHT) by removing more of the hot gases in each cylinder. Lower CHTs helps increase engine life.
- This same technology and engineering has proven itself on racetracks around the world both in motor cycles and Formula 1 racers.



POWER FLOW EXHAUST ADVANTAGES

- Takeoff roll reduced by 4-6 seconds.
- Quieter and smoother running engine.
- 50% more heating area in cabin heat section.

- Average fuel savings of 2.2 gallons per hour.
 Rate of climb increases reported between 150–300 feet/min.
 Manufactured from aircraft quality 321 Stainless Steel .049 wall thickness; 40% thicker than OEM.
- FAA/PMA manufactured.
- Easy to install. Remove exhaust, install our Power Flow System, & fly the same day. Approx. 3 man-hour installation.
- Easy to inspect-No welds or seams in the cabin heat area;
 Practically eliminates the chance of Carbon Monoxide entering cabin from the cabin heat section.

DYNAMOMETER TESTING POINTS TO BIG POWER GAINS

- An independent dynamometer test was conducted at LYCON engine overhaul in Visalia. California.

- An independent dynamometer test was conducted at LYCON engine overhaut in visalia, California.
 A stock OEM C172 exhaust on a 160HP Lycoming O-320 engine developed 133.25HP
 The PFS exhaust mounted on the same engine produced 157HP, 23HP more than Cessna's only 2HP below the max. possible.
 The same engine fitted with small (4") or "neutral" stacks (just like Lycoming does at the factory) produced maximum of 159HP.

INNOVATIVE IDEAS + QUALITY CONSTRUCTION = A SUPERIOR PRODUCT

- Our tuned exhaust is a bolt-on system that immediately provides 23 plus HP directly to the propeller.
- In each kit, we include all the installation hardware needed; No-Blow gaskets, Nuts, Lock washers, Flat washers, Cotter pins, etc.
- · Prior to shipping, we pressure test and fit each exhaust on our jig for perfect installation fit. You can literally remove the cowling and install our exhaust without wasting time searching for hardware or fitting the exhaust to the engine.
- The Power Flow exhaust is manufactured from durable 321 Stainless Steel tubing that is up to 40% thicker than OEM. This tubing is mandrel bent to maintain a consistent interior dimension for optimal tuning. all welding is aircraft quality, TIG welds.
- All manufacturing is in accordance with our FAA/PMA approved facility.
- · The heat exchanger is vacuum annealed to 1850° after assembly to relieve stresses that may be introduced during welding or tube forming. Annealing is normally only done on aerobatic or pusher prop style exhausts.
- The Cabin Heat Shroud is manufactured from 6061 aluminum sheet. This shroud includes a separate section for carburetor heat; thereby eliminating that inefficient OEM carburetor heat box attached to only one header. Ours takes air from 2 headers and the side of the heat
- This heat shroud is designed for easy access to aid during inspection of heat exchanger section. The cabin heat section is designed to contain no interior welds, so the possibility of carbon monoxide entering the cabin is greatly reduced, while providing 50% more surface area for heating. Inspection on our system is the same as on the original exhaust.
- · Power Flow exhaust systems are covered by a 60-day, 100% money back factory guarantee and a 1-year or 500 hour warranty.

System FAA approved for:	Part No.	Estimated install time (hours)	System Price	Estimated UPS Grnd. Shipping Charges
Cessna 172 w/ O-320 engines	08-00358	4 to 6	\$3,625.00	\$75.00
Cessna 172 w/ O-360 Conversions (Airplanes, Penn Yann conversions)	08-00359	4 to 6	\$3,605.00	\$75.00
Cessna 177 w/ O-320	08-00360	4 to 7	\$3,425.00	\$75.00
Cessna 177A w/ O-360 (fixed gear)	08-00361	4 to 7	\$3,605.00	\$75.00
Cessna 177B w/ O-360 (fixed gear)	08-00880	4 to 7	\$3,605.00	\$75.00
Piper Cherokee 140 (PA128-40)	08-00362	4 to 6	\$3,675.00	\$95.00
Piper Cherokee 150 & 160 (PA128-150 7 PA28-160)	08-00872	4 to 6	\$3,675.00	\$95.00
Piper PA28-150 & 160 w/ 0-320 A2B/B2B Engines(s/n below 1761)	08-04985	5 to 7	\$3,575.00	\$75.00
& Conical Engine Mounts				
Grumman AA-5 (S/N 0-640)	08-00635		\$3,540.00	\$75.00
Grumman Cheetah AA-5A	08-00636	7 to 9	\$3,740.00	\$75.00
Grumman Tiger AA5B	08-00637	4 to 7	\$3,740.00	\$75.00
Mooney M20C&G	08-00694	4 to 7	\$4,190.00	\$75.00
Glastar & Sportman with Lyc. 0-32010-360 w/ Standard Configuration	08-04986	3 to 5	\$2,695.00	\$75.00

Short Stack Option is available on many models. Request price quote if short stacks are required.

ROTAX 912/912S EXHAUST SYSTEM

This exhaust system was developed after practical experience with the original exhaust. The experts helped to make a new reliable system which has been tested on different types of ultralights. Our system is optimized and tested for 80 to 100hp engines. The tests have proven trouble-free, power output and noise have remained the same as the original Rotax exhaust. The muffler is TIG welded from heat-resistant 321 stainless steel and it is 1.5 lbs lighter. The exhaust system kit includes all the parts you need for installation (tubes, elbows, springs and Exhaust System without Heat ShroudP/N 08-00803\$518.00 Exhaust System with Heat ShroudP/N 08-00804\$633.00

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303

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AIRCRAFT SPRUCE EAST PEACHTREE CITY, GA • (877) 477-7823 ΕP

All exhaust stacks are heli-arc welded using Type 321 stainless steel tubing for light weight and long service life. Stainless steel stacks weight 50% less than a set in mild steel. All stacks are custom made and the workmanship is consistently of exceptional quality.

WHEN ORDERING, SPECIFY COMPLETE MODEL NUMBER AND HP OF ENGINE AND AIRCRAFT TYPE.

STRAIGHT STAINLESS STEEL EXHAUST STACKS



Basic exhaust pipes for Pitts Special, Smith Miniplane, Acro Sport, Starduster and many other homebuilts with Lycoming engines O-235 through O-360. This exhaust system fits under the intake tubes, starting at the rear cylinders, around the front intake tube, then points aft. Two mufflers (P/N 33205) or two tail pipes (P/N 33204) can be used with this system. With stainless swivel joints for vibration dampening and for positioning of tail pipes through 25° range. Wt. 7-1/4 lbs.

SYSTEM FOR LYCOMING ENGINES THRU 180 HP

(Tail Pipes not included.)

SYSTEM FOR LYC. O-320B (FUEL-INJECTED)

Tightest system for this engine.....P/N 33270-1**\$754.00**(Tail Pipes not included.)

ADD OPTIONS:

STRAIGHT TAILPIPES



P/N 33204 (14")\$118.95 Pr. P/N 33204-24 (24") ...\$155.95 Pr. P/N 33204-18 (18")\$140.95 Pr. P/N 33204-28 (28") ...\$183.00 Pr. P/N 33204-20 (20") ...\$159.95 Pr. P/N 33204-36 (36") ..\$175.95 Pr.

MUFFLER WITH 8" TAILPIPE (NO HEAT EXCHANGER)



P/N 33205**\$225.95 Ea.**

MUFFLER WITH 8" TAILPIPE & HEAT EXCHANGER



pipe diameter other than 2" or 2-1/2" is preferred. When ordering muffler with heat exchanger, advise diameter of inlet

and outlet pipe preferred (2", 2-1/2" or other).



HOMEBUILDERS SPECIAL STACKS

Designed to fit Lycoming engines 0-235 to 0-360. Mild steel. These stacks do not fit Pitts Special. Applicable to many home builts. Wt. 7.25 lbs.

P/N 08-01900 ..**\$510.95**



STAINLESS STEEL CROSSOVER EXHAUST SYSTEMS

A exhaust system allows your engine to breathe properly by reducing back pressure and by picking up the correct firing order of the cylinders. This results in increased HP compared to an untuned exhaust. The added HP will be evident as higher takeoff

RPM, higher cruise speed and lower fuel consumption.

This crossover system fits all Lycoming engines from O-235 to IO-360 (180 HP) with bottom or aft mounted carburetors or fuel injection controllers. It is designed for tight cowling and in most cases no cowling modification will be necessary. If fit is the problem, custome tighter crossover systems are available by special order (Additional charges may apply). The system has slip joints between cylinders and ball joints where tail pipes or mufflers connect to collector tubes to prevent cracking due to expansion and vibration and to allow for positioning of the tail pipes. The exhaust system can be ordered in the following combinations:

- 1. With straight tail pipes
- 2. With two mufflers (no heat exchangers)
- 3. With two mufflers (one heat exchanger)
- 4. With two mufflers, both with heat exchangers.

All mufflers include removable 8" tail pipes. Heat shrouds have one inlet and one outlet for 2" or 2-1/2" flex tubing

Compression Springs - used on Exhaust System Ball Joints. 6 required per system. P/N 33703\$5.20

STANDARD CROSSOVER SYSTEM

Basic system with all Collector Tubes (Without Tail Pipes) P/N 33251**\$757.00**

ADD OPTIONS:

Straight Tailpipes (14"). P/N 33204......**\$118.95 Pr.**Muffler w/8" Tailpipe (no heat exchanger) P/N 33205......**\$225.95** ea
Muffler w/8" Tailpipe & Heat Exchanger. P/N 33206-1 ..**\$340.95** ea

COMPLETE STANDARD CROSSOVER SYSTEM PRICES

Basic System with Two Straight 14" Tailpipes

Ass'y # 33270**\$718.00**

Basic System for 0-320B w/o Tailpipes. Ass'y # 33270-1 ..**\$754.00** System with 2 Mufflers, Removable 8" Tailpipes & No Heat Srouds.

Ass'y # 33272 ..**\$1,182.00**

System w/2 Mufflers, 1 Heat Shroud for either Cabin heat or Carb. heat. Ass'y # 33274.. \$1,262.00

System w/2 Mufflers, Both w/ Heat Shrouds for Cabin heat &C arb.heat.

Ass'y # 33276.. \$1,357.00

Stainless Crossover Systems for IO-360 (200HP)

Please specify front (35), bottom (40), or rear injector (45) P/N 08-057--\$756.00

(Does not include tailpipes or heat muffs)

SPECIAL CROSSOVER SYSTEM FOR VERY TIGHTLY COWLED AIRCRAFT

Designed for the Thorpe T-18, RV-6, 7 7 8, Mustang II, and others using Lyc 0-320 to 0-360 engines

Special Mufflers for the T-18 with Heat Shrouds for Cabin Heat and Carb. Heat. P/N 33250-1 \$357.95 Ea.

Special Tailpipes for the T-18 (to be used when mufflers are not used). Comes with same ball joint as the mufflers and an attaching bracket. P/N 33250-2 ...\$192.95 Pr.

<u>NOTE:</u> PRODUCTS ON THIS PAGE ARE FOR EXPERIMENTAL AIRCRAFT AND ARE NOT FAA APPROVED. ALL EXHAUST SYSTEMS ARE SPECIAL ORDER AND ARE NON RETURNABLE

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304

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EXHAUST SYSTEMS



EXHAUST SYSTEM FOR OSPREY AIRCRAFT

This stainless steel exhaust system will fit any very tightly cowled pusher type aircraft using the following engines: 0-235, 0-290 and 0-320. Applicable to VariEze, Osprey, Long-EZ, etc. Uses 1-3/4" O.D. tubing.

Basic Pusher System: RH & LH Stacks Only ..P/N 33420\$555.00 ADD OPTIONS:

Muffler	Only		P/N	33422	\$195.95
Muffler	with Heat	Exchanger	P/N	33424	\$326.95

EXHAUST SYSTEM FOR CONTINENTAL 0-200





Universal exhaust system. Designed for experimental aircraft using Continental 65 thru 0-200 engines. Consists of 2 manifolds, left hand manifold has heat shroud with 2 1/2" outlet pipe for carb heat ducting attachment. Tailpipes 3" long. If longer pipes required, extensions can be furnished with slip joint, clamp and pin.

Complete Set	P/N 33401	\$630.00
Tailpipe Extensions	P/N 33402	\$100.00

THIS SYSTEM IS PATTERNED AFTER A CESSNA 150 SYSTEM, BUT WILL NOT FIT A CESSNA 150 OR 152.

WHEN ORDERING EXHAUST SYSTEMS, PLEASE SPECIFY COMPLETE MODEL NUMBER & **HP OF ENGINE AND AIRCRAFT TYPE**

STAINLESS STEEL STACKS FOR PUSHER TYPE AIRCRAFT



Designed especially for tightly cowled engines. Fit inside of intake tubes. Ideal for amphibians. Applicable to Continental C-85 to 0-200 or Lycoming engines 0-235 through 0-360 (180 HP only). Advise engine model.

For Cont. Engines	P/N 33601	\$595.00
For Lyc. Engines	P/N 33602	\$595.00

These stacks do not accomodate mufflers.



COZY MARK IV PUSHER EXHAUST SYSTEM

This custom exhaust system was designed specifically for the Cozy Mark III and IV aircraft using Lycoming 0-235 to 0-360 series engines and the IO-360 200 HP engine. Will fit all pusher applications including the Long-EZ. Specify if you are ordering to fit the IO-360 200 HP engine. Standard System (180 HP or less)

P/N 33702 \$652.00
200 HP System (IO-360)
P/N 33702-1 \$616.00
Cozy Ball Joint Springs
P/N 33704 \$7.00 ea

NOTE: PRODUCTS ON THIS PAGE ARE FOR EXPERIMENTAL AIR-CRAFT AND ARE NOT FAA APPROVED. ALL EXHAUST SYSTEMS ARE SPECIAL ORDER AND ARE NON RETURNABLE

EXHAUST SYSTEM COMPONENTS

Fabricate your own exhaust system with these precision-formed type 321 stainless steel components.

STAINLESS STEEL 45° & 90° BENDS



TUBING SIZE	P/N	RADIUS	ANGLE	PRICE
1-1/2" X .035	33241	2-1/2"	90°	\$35.95
1-1/2" X .035	33242	2-1/2"	45°	\$31.90
1-3/4" X .049	33236	1-3/4"	90°	\$55.75
1-3/4" X .035	33243	2-7/8"	90°	\$43.00
1-3/4" X .035	33245	4"	90°	\$44.30
1-3/4" X .035	33237	5-1/2"	90°	\$45.00
1-3/4" X .035	33244	2-7/8"	45°	\$35.60
2" X .049	33238	2-1/2"	90°	\$51.75
2" X .035	33246	4"	90°	\$42.40
2-1/8" X .049	33239	2-3/4"	90°	\$59.85
2-1/4" X .049	33240	2-3/4"	90°	\$63.00
2-1/2" X .049	33247	4"	90°	\$65.25
3" X .049	33248	4-1/2"	90°	\$80.00

STAINLESS STEEL 180° "U"BENDS



	TUBING SIZE	P/N	RADIUS	ANGLE	LENGTH	EACH
((1-1/2" X .035	33260	2-1/2"	180	6"/6"	\$57.50
	1-1/2" X .035	33262	2-1/2"	180	10"/10"	\$62.75
	1-1/2" X .035	33261	2-1/2"	180	11"/14"	\$65.75
180° "U" Bends	1-3/4" X .035	33265	2-7/8"	180	6"/6"	\$59.75
w/ odd or even	1-3/4" X .035	33264	2-7/8"	180	10"/10"	\$65.25
leg lengths.	1-3/4" X .035	33263	2-7/8"	180	11"/14"	\$73.00

STAINLESS SWIVEL BALL JOINTS - CLAMP TYPE

m.F	
	7

Τι	ıbing I.D.	P/N	Male Sz	Female Sz	Price
1-	3/4"X 1-3/4"	33231	1-3/4"	1-3/4"	\$69.25
1-	3/4"X 2"	33232	1-3/4"	2"	\$69.25
2"	X 2"	33233	2"	2"	\$71.50
2-	1/2"X 2-1/2"	33234	2-1/2"	2-1/2"	\$78.35
2-	3/4"X 2-3/4"	33235	2-3/4"	2-3/4"	\$78.25

HYDRO-FORMED SLIP JOINTS - Two Piece Unit 4" Long



Slip Joint Size	P/N	Expanded Length	Price
1-1/2"	33221	2-3/4"	\$31.40
1-5/8	33226	2-5/8"	\$32.95
1-3/4	33222	2-5/8"	\$32.90
2"	33223	2"	\$36.00
2-1/4"	33227	2"	\$31.70
2-1/2"	33224	2-3/8"	\$37.50
3"	33225	2-1/4"	\$41.30

LAP-OVER DESIGN

Both ends 1-3/4" dia. x .035. Length 1-1/2". Four used on Long-EZ exhaust system.

P/N 33701\$22.85 ea



STUB EXHAUST STACKS

Stainless tubing 6"L welded onto stainless exhaust flange.

1-1/2"x .035 for Continental (doesn't fit 0-240) P/N 13352**\$38.10**

1-3/4"x .035 for Lyc.

P/N 13354**\$39.85**

STAINLESS TUBING FOR EXHAUST STACKS

Stainless type 321 welded tubing for exhaust stacks.

Tubing Size (O.D. x Wall)	P/N	Price per Ft.	Tubing Size (O.D. x Wall)	P/N	Price per Ft.
1-1/4" x .028	03-16200	\$13.30	1-3/4" x .035	03-16400	\$8.45
1-1/2" x .035	03-16300	\$14.90	2" x .035	03-16500	\$22.40

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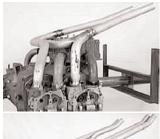
305

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EXHAUST SYSTEMS

VETTERMAN RV EXHAUST SYSTEM

Vetterman Exhaust has been manufacturing exhaust







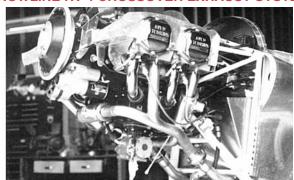


systems for the Van's Aircraft RV series since 1990. Exhaust systems for all RV models & Van's approved engine models are available. All systems are manufactured from MIL Spec 321 stainless steel, which is mandrel bent, trimmed to length and tack welded on a Lycoming engine. This method assures the best fit possible. All systems incororate ample slip & ball joints which greatly reduces breaking potential. All systems include blow proof gaskets, stainless exhaust nuts & washers for installation. Also include tail pipe mounting kits or pipe support brackets. Some systems also include a cabin heat muff.

Aircraft	Description	Part No.	Price
RV-3	O-320 Conical Mount 4 pipe sys.	08-00583	\$675.00
RV-3	O-320 Dynofocal Mnt. 4 pipe sys.	08-00584	\$675.00
RV-3	O-360 Dynofocal Mnt. 4 pipe sys.	08-00585	\$675.00
RV-4	O-320 Conical Mount 4 pipe sys.	08-00586	\$675.00
RV-4	O-320 Dynofocal Mnt. 4 pipe sys.	08-00587	\$675.00
RV-4	O-360 Dynofocal Mnt. 4 pipe sys.	08-00588	\$675.00
RV-4	O-320 Dynofocal Mnt. X-over sys.	08-00589	\$762.00
RV-4	O-360 Dynofocal Mnt. X-over sys.	08-00590	\$761.00
RV-6-6A,	O-320/O-360 Crossover system		
7-7A,8-8A,	*Includes cabin heat muff -	08-00591	\$794.00
9-9A	complete tail pipe mounting kit		
	O-320 H2AD Crossover system		
RV-6,7,8,9A	*Includes cabin heat muff -	08-00592	\$794.00
	complete tail pipe mounting kit		
	IO-360		
RV 7-7A	*Includes cabin heat muff -	08-00593	\$740.00
	complete tail pipe mounting kit		
	IO-360		
RV8	*Includes cabin heat muff -	08-00594	\$774.00
	complete tail pipe mounting kit		
RV 8A	IO-360	08-00595	\$758.00
	*Includes tail pipe mounting kit		

Note: Each of these systems will not interchange between aircraft and engine models. These systems are designed and intended for use on RV Aircraft ONLY. Prices DO NOT include shipping charges.

SNOWLINE RV-4 CROSSOVER EXHAUST SYSTEM



The material used on this System is 1-3/4" O.D. x .035 wall 321 stainless steel. This system is designed for use with Lycoming engines up to 180 H.P. Bending is performed using an inside mandrel which the tube is drawn over during bending to maintain the inside diameter. Flanges are made from 1/4" Stainless Steel. This heavy material greatly reduces warping and cracking. Tail pipes are fitted with a stainless steel spring-type swivel ball joint. This flexible joint not only allows for easy alignment of the tail pipes through the opening in the bottom cowling; but most important, this joint allows the engine and tail pipes to move independently, and greatly reduces the chance of cracking. One heat muff has been provided on the front cross-tube. This muff is intended for carburetor heat. If an injection system is being used, this muff can be used for cabin heat. An optional cabin heat muff can be ordered when carburetor heat requires the use of the standard heat muff. All hardware is provided to install the system. Stainless steel nuts, bolts, washers, blow-proof exhaust gaskets, two stainless clamps for attaching tail pipes to the firewall or engine mount. Building brackets and positioning mixture and throttle cables is always a hassle. A bracket which simply bolts to the engine case and positions the cables in front of the mixture and throttle arms for easy attachment is available as an option. A U-type clamp attaches cable housing securely in place

RV-4 Crossover Exhaust System P/N 08-05785 ..\$595.00

NOTE: THIS SYSTEM WILL NOT FIT LYCOMING, 0-320-H2AD OR H3AD ENGINES

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 - 24 Hour Access!
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WE WILL MATCH ANY COMPETITOR'S CURRENT PRICE. IF YOU FIND A LOWER PRICE, PLEASE TELL US.

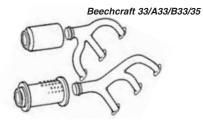
NICROCRAFT EXHAUST PARTS

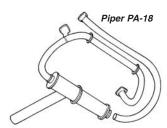
NICROCRAFT EXHAUST PARTS BUILT TO TAKE THE HEAT

Aircraft Spruce & Specialty Co. offers fully overhauled and factory new exhaust components for use in most general aviation aircraft. Manufactured by Wall Colmonoy Corp. Nicrocraft exhaust parts are built to the latest original equipment specifications. Heat-resistant 321 stainless steel is used in the construction of all new p arts. Bellows are made of Inconel alloy for superior heat resistance. Individual exhaust components and complete systems are available for virtually all single and twin engine Cessna, Piper, Beech, Bellanca, Grumman, Mooney, and Rockwell aircraft. (Please provide your complete aircraft and engine model and serial numbers, year of aircraft, and exact components required.) Most components are available for immediate shipment.

FACTORY NEW EXHAUST PARTS







CESSNA 150 (Models G-L)

Aircraft	Description / OEM #	Part No.	Price
Cessna 150	Muffler RH / #0450400-26	8300-4	\$259.95
Cessna 150	Muffler LH / #0450400-3	8300-3	\$259.95

CESSNA 152/A152

Aircraft	Description/OEM #	Part No.	Price
Cessna 152 (S/N 735-975)	Muffler/#454009-5	CEM0025	\$265.95
& A152 (S/N 978 & up)	Muffler/#454009-6	CEM0024	\$271.95

CESSNA 170/172

Aircraft	Description / OEM #	Part No.	Price
C170,172, A	Muffler LH / #0550157-9	221-9	\$392.95
Cont 0-300/C145	MufflerRH / #0550157-32	221-32	\$392.95

CESSNA 172B-H/175

Aircraft	Description / OEM #	Part No.	Price
Cessna C172B-H & 175 B-D	Muffler LH&RH / #	568-110	\$268.95
Cessna R172	Muffler / #1455009-3	CEM0023	\$319.00

CESSNA 172

Aircraft	Description/OEM #	Part No.	Price
C172 (w/Lyc) O-320	Muffler/#1754001-25	SO-00127B3	\$318.95
C172 O-320	Stack/#1754007-1	08-00844	\$136.00
C172 O-320	Stack/#1754008-1	08-00846	\$115.00
C172 O-320	Stack/#1754009-1	08-00847	\$136.00
C172 O-320	Stack/#1754010-1	08-00848	\$125.95

CESSNA 180/182/185

Aircraft	Description / OEM #	Part No.	Price
Cessna C180,C182, & 185 late model	Muffler/#0750161-28/89	CEM0002	\$281.95
180B,C,D,E,F 182B,C,D,E,F	Heat Muffler 0750130-44 Heat Muffler 0750130-9	CEM0001 CEM0006	\$353.95
010D a/pE000G9 up to M	Heat Muffler 0750130-12 Heat Muffler LH/#1250250-5	CEM0009	\$343.00 \$405.95
		650-43	
C210B C210B C210B	Muffler RH 1250251-16 Collector LH 1250263-2 Collector RH 1250264-2	08-00849 08-00850 08-00851	\$246.95 \$352.95 \$352.95

BEECHCRAFT 33/A33/B33/35

Aircraft	Description / OEM #	Part No.	Price
Beechcraft 33, A33, B33, 35	Heat Muffler RH/#186-30 Muffler RH / #189 Stack Assy RH/#35-950116 Stack Assy LH/#35-950118	186-30 189 BES-0001 BES-0002	\$395.00 \$194.00 \$385.95 \$424.95

BEECHCRAFT C33A/36/A36

Aircraft	Description / OEM #	Part No.	Price
	Muffler LH/#701-20		\$192.90
	Heat Muffler RH/#701-19		\$316.95
		08-00853 08-00854	
00071, 00, 7100	001100101 11117 #00 0010 0/00	00 00004	Ψ012.00

BEECHCRAFT H35/P35 thru S/N D-7108

Aircraft	Description / OEM #	Part No.	Price
Beechcraft H35,	Heat Muffler LH/492-43	492-43	\$364.00
J, K, M, N, P35	Muffler RH/#492-27	492-27	\$247.00

PIPER PA-12, 14, 16, 20, 22, 25

Aircraft	Description / OEM #	Part No.	Price
PA-12, 14,16, 20, 22, 25	Muffler / #10308-03	PIM0003	\$367.95

PIPER PA-18

Aircraft	Description / OEM #	Part No.	Price
Piper PA18	Muffler / #12433-15	PIM0006-100	\$367.95

PIPER PA-28

Aircraft	Description / OEM #	Part No.	Price
PA-28-140, 150, 160	-140 Muffler w/o shroud / #99482-00	PIM0001	\$296.95
PA-28-151,161,180,181	Muffler (2 reg.)/#66894-03	PIM0007	\$226.95
PA-28R,180, 200, 201, 236	Muffler (2 req.)/#67517-00 3 reg. for 236	PIM0004	\$246.95
PA32-300,32-760001 & up, PA32-R300	Muffler (3 req.) 67517-00	PIM0004	\$246.95

OVERHAULED EXHAUST PARTS

Aircraft	Description / OEM#	Part No.	Price
Cessna C172 (w/Lyc.)	Muffler / #1254001-25	SO-00127B3	\$318.95
Beechcraft C33A, E33A, F33A, C, S35, 36, A36	Heater Muffler RH w/o shroud / #701-19	701-19R	\$238.95
Cessna 210B	Heater Muffler LH / #1250250-15	1250250-5R	\$239.00
Piper PA-18	Muffler / #12433-15	12433-15R	\$268.95

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307

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OEM Part No.

Description



Our Part No. Price Aircraft

EXHAUST SYSTEMS BY AEROSPACE WELDING INC.

Our Part No. Price

Aerospace Welding, Inc. has earned a reputation for its uncompromising commitment to quality exhaust systems and components. Aircraft Spruce is an authorized distributor of AWI products, and as such can assure our customers of minimal down time and fast shipment through the Priority Service Proram at AWI. All exhaust systems are built in fixtures for precise fit and are FAA Approved for the listed aircraft. Available in factory new (N) and overhauled (OH) condition as

OEM Part No. Description

AllCraft	OEW Part No.	Description	Our Part No.	Frice	AllCraft	OEM Part No.	Description	Our Part No.	Price
C-150	0450400-3	LH Muffler (N)	08-00061	\$276.95	PA28-151/161/		A 4 60 (A 1)		****
	0450400-26	RH Muffler (N)	08-00062	\$263.95	180/191	66894-03	Muffler (N)	08-00135	\$211.95
	0450338-70	RH Riser (N)	08-00063	\$47.00	PA28R-180/200	67517-00	Muffler (N)	08-00136	\$211.95
	0450338-69	LH Riser (N)	08-00064	\$62.50	PA28-235	65012-00	Muffler (OH)	08-00137	\$313.00
	0450338-66	RH Tailpipe (N)	08-00065	\$83.00		65813-00	Muffler (OH)	08-00138	\$313.00
	0450338-67	LH Tailpipe (N)	08-00066	\$95.75		68718-03	Muffler (OH)	08-00139	\$313.00
C-152	0454009-5	Muffler (OH)	08-00067	\$265.95		65038-00	LH Stack (OH)	08-00140	\$335.00
	0454009-6	Muffler (OH)	08-00068	\$280.95		65039-00	RH Stack (OH)	08-00141	\$335.00
	EL0099001-716	Muffler (OH)	08-00069	\$515.00	PA28-236	67517-00	Muffler (N)	08-00142	\$223.88
C-170B/172	0550157-9	LH Muffler (OH)	08-00070	\$344.95	PA31-325/350	LW16825	RH Stack Assy. (OH)	08-00143	\$366.00
	0550157-32	RH Muffler (OH)	08-00071	\$344.95		LW16826	LH Stack (OH)	08-00144	\$366.00
	0550157-7 0550157-8	Riser (N) Curved Riser(OH)	08-00072 08-00073	\$47.80 \$92.50		LW12127	Transition (N)	08-00145	\$1,080.00
0 170 0		` '		\$325.00		LW12437	Transition (N)	08-00146	\$1,046.00
C-172 Cont.	0550176-59	Muffler (N)	08-00074 08-00075			40310-09	Lower Tailpipe (OH)	08-00147	\$271.00
	0550157-7 0550176-13	Riser (N) Riser (N)	08-00075	\$47.70 \$58.50		40310-08	Upper Tailpipe (OH) Upper Tailpipe (OH)	08-00148	\$271.00
0.470					PA32-260	40310-10 68718-00	Muffler (OH)	08-00149 08-00150	\$271.00 \$313.00
C-172	1754001-25 1754001-15	Muffler (N) Muffler (N)	08-00077 08-00078	\$371.95 \$133.95	1 702-200	65038-00	LH Stack (OH)	08-00150	\$340.00
	1754007-15	Riser (OH)	08-00078	\$132.95		65039-00	RH Stack (OH)	08-00151	\$333.95
	1754008-1	Riser (OH)	08-00080	\$132.95	PA32-300	68796-00	Muffler (OH)	08-00153	\$313.00
	1754009-1	Riser (OH)	08-00081	\$132.95	1 702-000	68793-00	Stack (OH)	08-00154	\$365.95
	1754010-1	Riser (OH)	08-00082	\$132.95		67517-00	Muffler (N)	08-00155	\$248.95
C-177	1754001-25	Muffler (N)	08-00083	\$337.95	PA32R-301-T	W15859	Westgate (OH)	08-00156	\$664.00
	1754001-9	Muffler (N)	08-00084	\$320.00		W16759	Westgate (OH)	08-00157	\$664.00
C-177RG	2054000-42	LH Muffler (OH) LH Muffler (OH)	08-00085	\$324.00	PA34-200-I	78463-10	LH Tailpipe (OH)	08-00158	\$313.00
	2054000-40 2054000-31	LH Muffler (OH)	08-00086 08-00087	\$324.00 \$324.00		78463-10	RH Tailpipe (OH)	08-00159	\$313.00
	2054000-31	RH Muffler (OH)	08-00087	\$324.00	PA38-112	77669-02	Muffler (OH)	08-00160	\$195.95
C-180	0750290-3		08-00089	\$292.00	PA44-180	86299-07	Muffler (OH)	08-00161	\$191.00
		Muffler (OH)			B-33 & 35A-G	186	LH Muffler (OH)	08-00162	\$291.00
C-180/182	0750130-9 0750130-12	Muffler (OH) Muffler (OH)	08-00090 08-00091	\$275.95 \$343.00		189	RH Muffler (OH)	08-00163	\$137.95
	0750130-12	Muffler (OH)	08-00091	\$276.95	B-V35/A36	35-950005-1	LH Stack (OH)	08-00164	\$387.95
	0750130-48	Widilior (OTI)	00 00032	Ψ270.55		35-950005-3	RH Stack (OH)	08-00165	\$292.00
C-182/185	0750161-89	Muffler (N)	08-00094	\$320.63		701-4	LH Muffler (OH)	08-00166	\$138.00
0-102/103	0750238-20	Stack (N)	08-00095	\$493.95		701-20	LH Muffler (OH)	08-00167	\$173.50
C-182RG	1250251-12	LH Muffler (OH)	08-00096	\$210.00		701-5	RH Muffler (OH)	08-00168	\$291.00
C-102NG	1250251-12	RH Muffler (OH)	08-00096	\$317.00		701-19	RH Muffler (OH)	08-00169 08-00170	\$291.00
0.400		` ′	08-00097	\$329.00		35-950004-7 35-950004-9	LH Tailpipe (OH) RH Tailpipe (OH)	08-00170	\$101.95 \$141.95
C-188	1650005-4 1650033-11	Muffler (N) Tailpipe (N)	08-00098	\$329.00		35-950004-9	LH Tailpipe (N)	08-00171	\$142.95
	1650033-11	Tailpipe (N)	08-00100	\$170.00		35-950005-57	RH Tailpipe (N)	08-00172	\$161.95
		(11)	00 00.00	Q.7.1.00	B-35H-P	492-27	RH Muffler (OH)	08-00174	\$247.00
	0750238-28	Stack (N)	08-00102	\$507.00	D 00111	492-7	LH Muffler (OH)	08-00175	\$291.00
C-206/210	1250263-2	LH Collector (OH)	08-00103	\$388.95		35-950004-7	LH Tailpipe (OH)	08-00176	\$141.95
	1250264-2	RH Collector (OH)	08-00104	\$291.95		35-950004-9	RH Tailpipe (OH)	08-00177	\$141.95
	1250250-5	LH Muffler (OH)	08-00105	\$317.00		35-950005-61	LH Tailpipe (N)	08-00178	\$113.00
	650-43	LH Muffler (OH)	08-00106	\$317.00		35-950005-57	RH Tailpipe (N)	08-00179	\$136.00
	1250251-13	RH Muffler (OH)	08-00107	\$210.00	B-55/58	96-950002-55	LE OTNBD Tailpipe (OH)	08-00180	\$303.00
	1250251-16	RH Muffler (OH)	08-00108	\$209.95		96-950002-57 96-950002-59	RE INBD Tailpipe (OH) LE INBD Tailpipe (OH)	08-00181 08-00200	\$303.00 \$303.00
	1250256-7 1250257-7	LH Tailpipe (N) RH Tailpipe (N)	08-00109 08-00110	\$100.00 \$100.00		96-950002-59	RE OTNBD Tailpipe (OH)	08-00200	\$303.00
	1250257-7	RH Tailpipe (N)	08-00110	\$100.00		96-950002-31	Riser Cyl. #3 (OH)	08-00202	\$175.95
C T006/T010						96-950002-7	Riser Cyl. #4 (OH)	08-00203	\$122.00
C-T206/T210	1250860-110 1250860-104	Tailpipe (OH) RF Stack (OH)	08-00112 08-00113	\$280.95 \$386.95		96-950002-33	Riser Cyl. #5 (OH)	08-00204	\$90.00
	1250860-104	Turbo Inlet (OH)	08-00113	\$388.00		96-950002-9	Riser Cyl. #6 (OH)	08-00205	\$90.00
	1250860-203	Heat Exchanger (OH)	08-00115	\$920.00	B-Sundowner	099001-127	Muffler (OH)	08-00206	\$516.00
	1250860-90	Crossover (OH)	08-00116	\$174.95	B-Sport	099001-126	Muffler (OH)	08-00207	\$451.95
	1250860-100	Riser (N)	08-00117	\$73.50	B-Sierra	099001-131	Muffler (OH)	08-00208	\$730.00
C-T206/T210	1250860-07	Tailpipe Adapter(OH)	08-00119	\$73.00	Bellanca Citabria	3-1493R	Muffler (OH)	08-00209	\$207.95
C-337	1250250-5	Muffler (OH)	08-00120	\$317.00		3-1493L 4-1104	Muffler (OH) Muffler (OH)	08-00210 08-00211	\$207.95 \$185.95
	1555001-1	Muffler (OH)	08-00121	\$1,245.00		4-1104 4-1105	Muffler (OH)	08-00211	\$207.00
Piper J-3	71053-02	Muffler (OH)	08-00122	\$265.00	Bellanca 8KCAB	099001-046	Muffler (OH)	08-00213	\$545.65
PA18	12433-014	Muffler (OH)	08-00123	\$265.00	Bellanca 8GCBC	099001-046	Muffler (OH)	08-00214	\$545.65
	12457-002	Stack (OH)	08-00124	\$320.00	Bellanca 7GCAA	099001-050	Muffler (OH)	08-00215	\$451.95
DAGO	10000 000	Mufflor (OLI)	00 00400	\$265.00	Bellanca 7GCBC	099001-050	Muffler (OH)	08-00216	\$516.00
PA22	10308-003 12043-22	Muffler (OH) Stack (OH)	08-00126 08-00127	\$265.00	Bellanca 7ECA	099001-049	Muffler (OH)	08-00217	\$451.95
	12043-22	Stack (OH)	08-00127	\$320.65	Grumann AA1 Yankee	099001-113	Muffler (OH)	08-00218	\$494.95
PA28-140/-180	99482-00	Muffler (OH)	08-00129	\$265.00	Grumann AA1 A&B	099001-137	Muffler (OH)	08-00219	\$559.00
1 720-140/-100	99482-00	Muffler (OH)	08-00129	\$265.00	Grumann AA5 Traveler	099005-148	Muffler (OH)	08-00220	\$451.95
	99044-02	Stack (OH)	08-00131	\$112.00	Grumann AA5A Cheetah	099005-195	Muffler (OH)	08-00221	\$516.00
	99044-04	Stack (OH)	08-00131	\$202.00	Grumann AA5B Tiger	099001-191	Muffler (OH)	08-00222	\$545.63
	99044-05	Stack (OH)	08-00133	\$185.95	Mooney M20	630060-501	180 Muffler (OH)	08-00223	\$451.00
	99044-03	Stack (OH)	08-00134	\$146.95		630060-503	200 Muffler (OH)	08-00224	\$493.95
	<u> </u>	I			I		, ,		
Note: (N) or (OH)	after description	indicates New (N) or (Overhauled (OH)	condition.	All overhauled parts	carry a care ch	arge. Please Order ac	cording to "Ou	ır Part No."

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308

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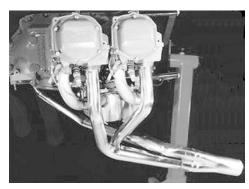
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When you order your 4-into-1 or 6-into-1 exhaust system, you will receive from Aircraft Spruce a small box containing 4 stub stacks, a collector, and instructions. When your exhaust system mock-up is complete you will ship it directly to our fabricator who will use it to fabricate your custom 321 stainless steel system and ship the system directly to you. 6-into-1

P/N 08-00674**\$1,454.00**

SNOWLINE RV-6 & RV-6A CROSSOVER EXHAUST SYSTEM



The material used on these systems is 1-3/4" O.D. x .035 wall 321 stainless steel tubing. 2 models are available; one for Lycoming engines up to 180 H.P. and the other for the Lycoming IO-360 (200 H.P. engine). Bending is performed using an inside mandrel which the tube is drawn over during bending to maintain the inside diameter. Flanges are made from 1/4" stainless steel. This heavy materialgreatly reduces warping & cracking. Tail pipes are attached to the header with a slip joint. Simply slide the tail pipes onto the header, position the end of the pipe as desired in the bottom opening, and attach with the stainless steel retaining clamp. One heat muff has been provided on the front cross-tube. This muff is intended for carburetor heat. If an injection system is being used, this muff can be used for cabin heat. An optional cabin heat muff can be ordered when carburetor heat requires the use of the standard heat muff. All hardware is provided to install the system. Stainless Steel nuts, bolts, washers, blow-proof gaskets, 2 stainless clamps for attaching tail pipes to the firewall or engine mount. Building brackets and positioning mixture and throttle cables is always a hassle. A bracket which simply bolts to the engine case and positions the cables in front of the mixture & throttle arms for easy attachment is available as an option. U-type clamp attaches the cable housing securely in place.

*Will not work with front mounted injectors

The RV-6/RV-6A exhaust systems are recommended for these aircraft only. For other expermentals, the RV-4 system may fit better under cowls as it is built tighter to the engine.

REAL PREMIUM SILICONE VALVE COVER GASKETS

REAL are twice as thick as typical gaskets and have been hot oil and dry heat tested at 300°F. Only REAL gaskets seal uneven surfaces, eliminate corrosion, and reduce maintenance costs. They may be reused, are installed dry, and maintain screw torque. Indefinite shelf life. Highly recommended by Rutan Aircraft Factory.

















P/N	APPLICATION	PRICE EACH	P/N	APPLICATION	PRICE EACH	P/N	APPLICATION	PRICE EACH
RG-75906	0-235; 0-290; O,IO,LIO-320; O-340;	\$6.95	RG-71450	IO-540-B,E,M; TIO-540-A;	\$9.75	RG-534857	O-470; IO,TSIO-470; IO,TSIO-520	\$9.85
	O-360-A,B,C,D; IO-360-B; HO-360-A,B;			IGO, IGSO-540-B.		RG-632310	IO, TIO, TSIO-360.	\$4.95
	HIO-360-B; VO,IVO-360;		RG-530162	A-65; C-75,85,90,145,175;	\$7.50	RG-632459	GTSIO-520; TSIO-520-BE.	\$5.50
	O-540-A,B,E,F,G; IO-540-C,D,J,N,R.			O-200; O-300.		RG-17727	4A-235, 6A-335, 6A4-150,	\$6.60
RG-67193	IO-360-A,C,D; AIO-360-A,B;	\$6.95	RG-532451	E-185; E-225; IO-346;	\$8.45		6A4-165, 6A4-200, 6A5-335,	
	HO-360-A,C,D; TIO-360-A;			O-470-A,E,J; IO-470-J,K			6A5-350.	
	LIO-360-C1E6; VO,GO-435; GO-480;							
	IO,VO,TVIO-540;IO-720; TVO-435;							

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309
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RAPCO manufactures FAA-PMA approved exhaust gasket replacements for Continental and Lycoming engines. As an authorized RAPCO distributor, Aircraft Spruce offers these gaskets at great savings to you. Select either the economical solid metal beaded gaskets or the extra thick, rugged spiral wound style. High quality for long life. These prices reflect a substantial discount off RAPCO list prices.

	STYLE	RAPCO	Us	e As Replacem	ent For:	Use on These	Our	Our Price
		P/N	OEM P/N	Airborne P/N	Superior P/N	Engine Models	P/N	Each
	Solid O	RA-630365	630365	N/A	SA630365	IO-360-A, C, D, G, H, J, K	08-05215	\$1.70
	Spiral Wound	RA-970	N/A	N/A	N/A	IO-360-A, C, D, G, H,J, K TSIO-360-A, B	08-05270	\$6.40
ENTAL	Solid ©	RA-632837	632837 21493	157	SA632837	A-65, A-75, C-85-12F, C-90-8F, 12F, 14F, 16F	08-05237	\$1.25
CONTINENTAL	Spiral Wound	RA-627429	627429	999	SA627429	E-165, E-185, E-225 O-200-A, B, O-300-A, C, D O-470-A, E, J	08-05229	\$6.10
3	Solid Solid	RA-631544	631544 537379	1 58	SA631544	O-470-B, G, K, L, M, P, R, S, U	08-05244	\$1.25
	Spiral Wound	RA-628260	628260	972	SA628260	O-470-B, G, K, L, M,P, R, S, U IO-470-D, U, V, TSIO-470-B TSIO-520-B, C, D GTSIO-520-C, D	08-05260	\$4.75
	Solid ooo	RA-75118	75118 73720 67196 65321	160	N/A	All engines using two (2) hole exhaust flanges	08-05218	\$1.67
ING	Spiral Wound	RA-77611	77611	1000	SL77611		08-05211	\$4.85
LYCOMING	Solid O	RA-LW15619	LW15619 74756	161	SL15619	All engines using three (3) hole exhaust flanges	08-05219	\$1.67
7	Spiral Wound	RA-LW15486	LW15486	971	N/A		08-05286	\$8.40
	Solid Metal Beaded	RA985	3503			P & W R985	08-64452	\$9.90

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