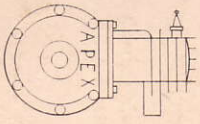


SKYLARK

STARTING THE MOTOR

Mix thoroughly in a clean container; preferably a glass jar, 6 parts of good grade gasoline with one part of SAE 70 motor oil; and fill the tank as required; connect 2 flashlight cells in series to give 2 volts and connect one terminal to primary screw on coil; the other primary screw is wired to the insulated ignition point in the timer lever; the single terminal screw on coil is for the spark plug connection; secure a return grounding wire to a nut on the frame of motor; join it to a small switch and back to the other battery terminal, thus completing the circuit. There should be a gap of .010" (ten thousandths of an inch) at ignition points when contact is broken.

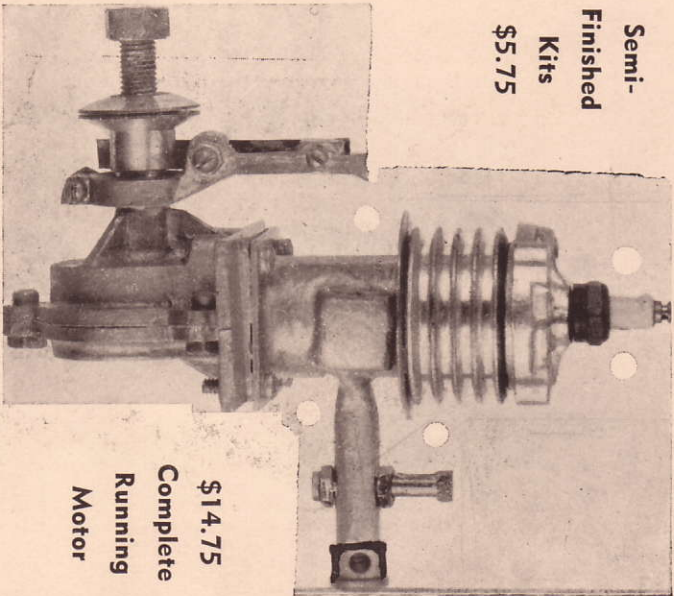


With timer lever perpendicular the spark occurs at the top dead center of piston; as the motor runs equally well in either direction, speed is increased by moving the lever against the direction of rotation; thus advancing the spark; flip the propeller sharply over compression with the choke closed and the needle valve open, gradually increasing the air and reducing the gas feed until you obtain the desired result.

GASOLINE MOTOR FOR MODEL AIRPLANE OR BOATS

Skylark

Semi-Finished Kits \$5.75



Complete Running Motor \$14.75

7/8" Bore; 7/8" Stroke
One-Fifth H. P. at 5000 R. P. M.

Air or Water-Cooled
Approximate Weight—7 1/2 ozs.

Height 4 1/4 inches

APEX MOTORS
BERKELEY, CALIFORNIA

ORDER FORM

APEX MOTORS - P. O. 443 - Berkeley, California

Please send me the items checked below.....

Enclosed is Money Order for \$.....



		Air Cooled	Water Cooled
Quantity.....	Model.....		
.....	SKYLARK..... Motor ready to run—\$14.75 each.....		
.....	SKYLARK..... Semi-finished Kits—\$5.75 each.....		
.....	SKYLARK..... S-F Kit with unfinished cylinder \$5.00 each.....		

NAME

ADDRESS

CITY..... STATE.....

I am a Machinest..... Dealer..... Student.....

An interesting Discount Proposition will come with your order.

SKYLARK

PRICE LIST

	Finished	Unfinished
781 Cylinder with Cooling fins and Intake pipe.....	\$3.00	\$1.25
785 Piston .....	.75	.30
784 Piston Ring .....	.30	£
789 Piston Pin and pads.....	.20	£
786 Connecting Rod	}	.25
786B Connecting Rod Bushings		.15
782 Cylinder Head.....	.45	.30
793 Crankcase, Front	}	.50
794 Crankcase, Rear		.30
793B Crankcase Bushing		.10
Carburetor assembly and gas lines	1.00	.30
Carburetor Choke cap and spring .....	.30	.10
796 Gas Tank .....	.50	.20
791 Propeller timer cam Washer	}	.15
792 Propeller Plain Washer.....		.15
787 Timer Lever .....	.40	.20
787S Timer Lever Spring and point	.20	£
787C Timer Lever Contact Screw Assembly .....	.40	£
Spark Plug and Gasket.....	1.00	£
795 Ignition Coil	2.75	£
Ignition Coil Condenser .....	.25	£
790 Crankshaft	1.75	.45
Crankshaft—Main Shaft		.15
Crankshaft—Web .....		.15
Crankshaft—Pin .....		.15

(*£ indicates finished only)

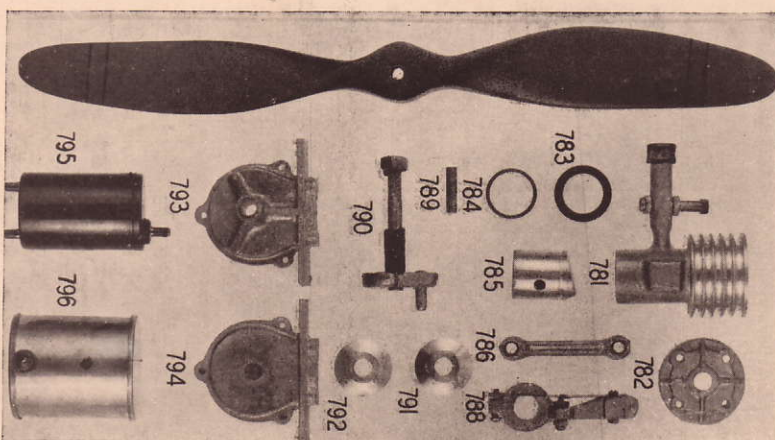
Sales tax is included in above prices. Postage paid on orders above 50 cents. Add 5 cents for postage on orders below 50 cents.

Apex Motors, Berkeley, California
or order through your Dealer.

SEMI-FINISHED KITS SKYLARK

Mechanists and students taking machine shop practice will find the Semi-Finished Kit a source of pleasure and profit. A full set of assembly and working drawings are supplied, showing every operation clearly and simply. Finished parts included are: Cylinder Assembly, Piston Pin, Piston Ring, Spark Plug, Timer Spring, Ignition Parts and Gas Lines.

All other material and castings to complete the motor is furnished, including bolts, nuts and gasket material, less coil.



If you prefer to do your own brazing on the cylinder attachments, the cost will be 75c less for the Kit. It will be necessary to hone the cylinder afterwards.

Many who have bought sets find a ready sale for the finished motor among their friends. A regular auto coil and battery is usually connected for testing, avoiding the cost of the coil which can be obtained later.

SKYLARK

SPECIFICATIONS

Cylinder Assembly

Special Steel Tubing, with Manifold and Port Housing attached, heat treated; Bore reamed and honed to accurate finish; Cooling fins of Aluminum.

Piston

Silicon Alloy; withstanding heat and wear.

Piston Ring

Special gray iron.

Piston Pin

Steel; drilled for lightness; hardened and lapped.

Connecting Rod

Lightweight Dural, or similar alloy; Bushings of Phosphor bronze.

Crankshaft

Main Shaft and Pin. Steel; hardened and lapped; Dural web; balanced.

Crankcase

Aluminum castings; with ample strength; Main bearing of long life Phosphor bronze.

Timer

Banjo design; using auto ignition adjustable points; with lever to advance and retard the spark; breaker cam and propeller flanges turned from Dural.

Carburetor

Suction; with air regulator and needle valve adjustment; speed controlled from 400 to 5000 R.P.M.

Coil

Lightweight aviation type; especially designed for this motor; Bakelite case; oil, gas, and water-proof; fat spark at all speeds on 2 volts.

Spark Plug

3/8x24 Thread, miniature.