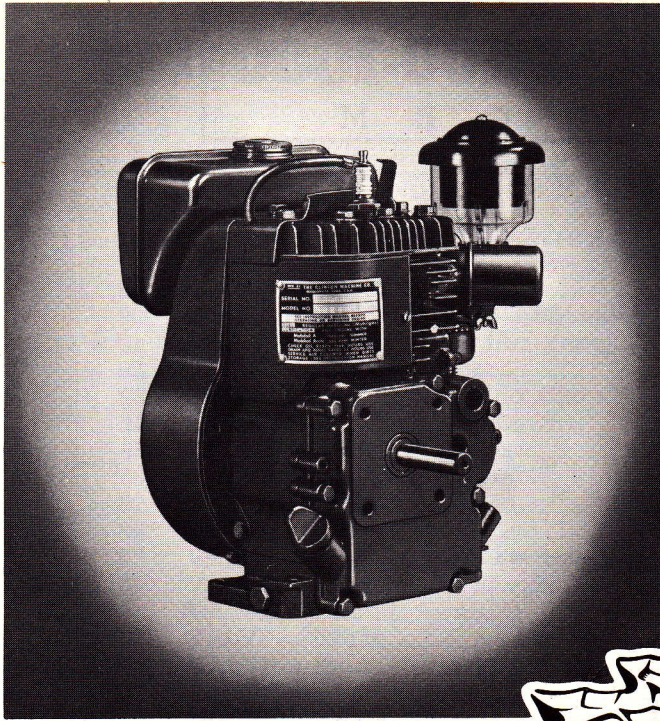


S E R I E S
A-2100-1000
 G E M



A Wide Range of Models are Made By



For Farm, Home and Industrial Use.

	H.P.	R.P.M.
A-2100-1000	1.1	2200
	1.5	2800
	1.75	3600

GENERAL SPECIFICATIONS

Model	Type	Description	Starter	Weight
A-2100-1000	Air Cooled	Horizontal Shaft	Rope or Recoil	19 lbs.

BORE: 2 $\frac{3}{8}$ "

STROKE: 1 $\frac{5}{8}$ "

TYPE: Single cylinder, L-Head, air-cooled.

AIR-COOLED: Large capacity, curved vane blower cast integral with fly-wheel. Air passes through deep fins to maintain correct operating temperature.

PISTON DISPLACEMENT: 7.2 cubic in.

IGNITION: Very high voltage, built-in fly-wheel magneto for faster starting. Moisture and dust proof with fully enclosed ignition points.

SPARK PLUG: 14 m.m.

LUBRICATION: Splash-type. Oil drainage permitted from either side of the base.

CARBURETOR: Full float feed with idle and high speed adjustment.

GOVERNOR: Adjustable, air velocity type, statically balanced.

MAIN BEARING: Bronze.

CRANKSHAFT: Arma steel, induction heat-treated. Counterweights and cam gear drive integral with shaft.

CONNECTING ROD: I-Beam, aluminum alloy with extra large bearings.

PISTON: Aluminum alloy.

PISTON RINGS: Two compression and one oil control. Treated surfaces.

VALVES: Forged steel. Exhaust valve provided with heat-resistant alloy head.

VALVE SEATS: Alloy inserts.

VALVE TAPPETS: Hardened and ground.

CYLINDER AND CRANKCASE: Die cast cylinder block and crankcase with large amount of cooling area for cool operation. A close-grained cast iron liner is die cast in block.

CYLINDER HEAD: Aluminum, removable with extra deep cooling fins.

OIL FILLER: Conveniently located on either side for easy check of oil level and for filling.

AIR FILTER: Dry type.

FUEL TANK: 1-quart capacity, with gasoline strainer and shut-off.

OIL RESERVOIR: One-pint capacity.

DIRECTION OF ROTATION: Counter-clockwise, viewed from power take-off shaft side.

FINISH: Dark green or red heat-resisting enamel. Other colors upon special order.

STANDARD EQUIPMENT

Standard equipment includes: Air cleaner, dust and moisture proof, high voltage, flywheel magneto, float feed carburetor, fuel tank, muffler, blower housing screen, rope starter.

SPECIAL EQUIPMENT

Special equipment includes: Remote governor control, throttle cables and stop, recoil starter.

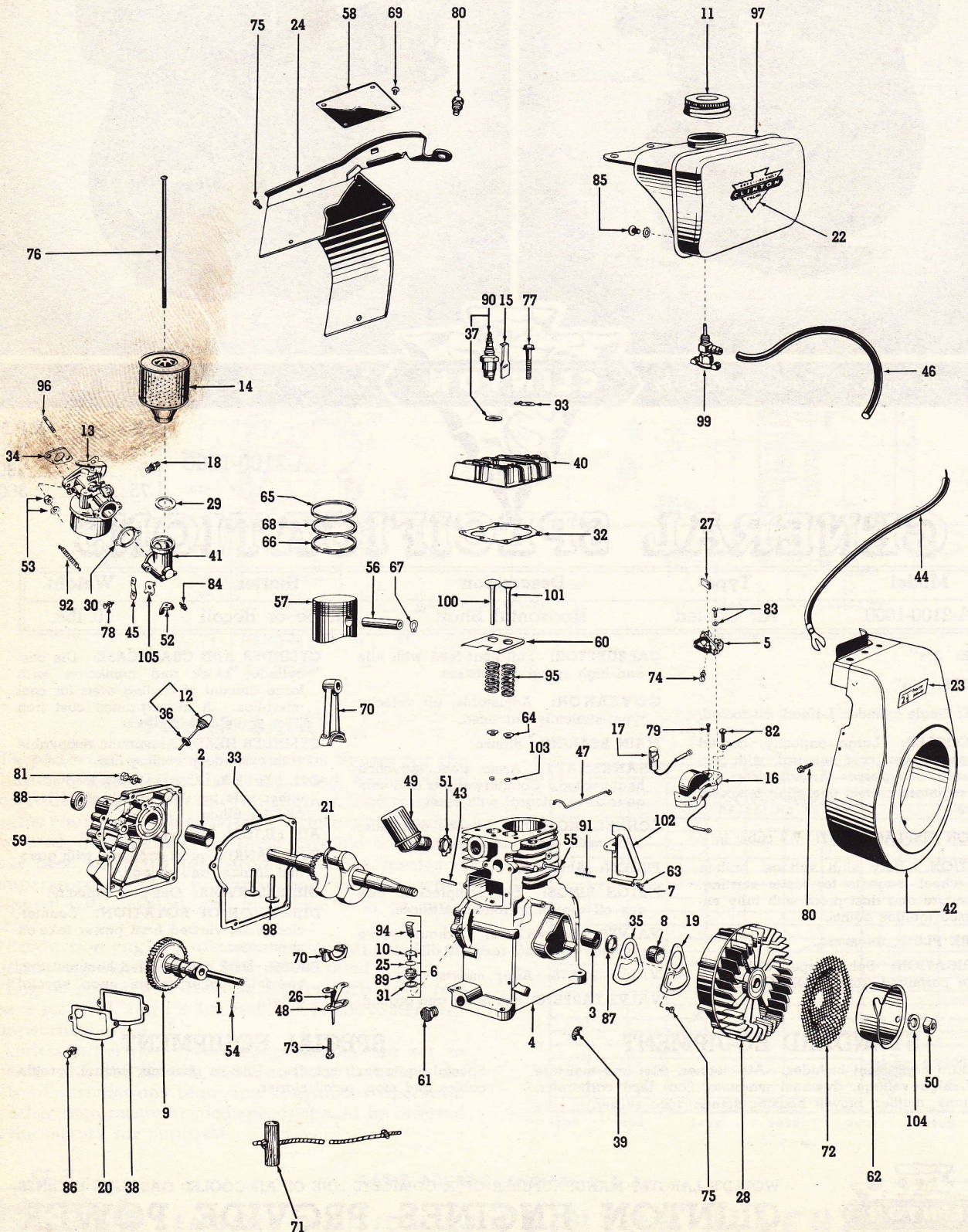


WORLD'S LARGEST MANUFACTURER OF A COMPLETE LINE OF AIR-COOLED GASOLINE ENGINES

CLINTON ENGINES PROVIDE POWER

FOR FARM • HOME • INDUSTRIAL EQUIPMENT

Printed in U.S.A.



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**BASIC
TYPE**

SEC. II, DIV. A-2100-1000
PARTS CATALOG
Revised February, 1957
Supersedes May, 1956

There are two Basic Types of the A-2100-1000 Engine covered by this Basic Parts List. Parts not used on all Types are noted. These Types are shown as follows: Serial Number Suffix "A"—referred to as "Type A"; Serial Number Suffix "B"—referred to as "Type B."

NOTE: See page "a" on "How to Identify Your Clinton Engine."

BASIC PARTS LIST

Ref. No.	PART DESCRIPTION	Part No.	Quantity
1	AXLE — Camshaft (includes pin).....	21310-A	1
2	BEARING — Sleeve (Plate Assembly).....	21016	1
3	BEARING — Main (Sleeve, Cylinder Block).....	10380	1
4	BLOCK ASSEMBLY — Cylinder.....	10204-A	1
5	BREAKER POINTS ASSEMBLY.....	P5543	1
6	BREATHER ASSEMBLY.....	6330	1
NOTE: Breather Assembly includes Ref. Nos. 10, 25, 31, 89.			
7	BUSHING — Air Vane.....	7239	2
8	CAM — Magneto Breaker.....	5707	1
9	CAMSHAFT.....	21008	1
10	CAP — Breather.....	7151	1
11	CAP & GASKET ASSEMBLY — Fuel.....	4517-A	1
12	CAP & GASKET ASSEMBLY — Oil Filler.....	21074-A	1
13	CARBURETOR ASSEMBLY — Clinton—Used on Type A.....	14010	1
	CARBURETOR ASSEMBLY — Used on Type B.....	14009	1
(For Complete Identification of Carburetor, Refer to Sec. III, Div. A, Page 2)			
14	CLEANER ASSEMBLY — Air.....	4546-A	1
15	CLIP — Ignition Shorting.....	10368	1
16	COIL ASSEMBLY — Magneto (with Laminations).....	P5593-B	1
	COIL — Magneto (without Laminations).....	P5593-A	1
17	CONDENSER — Magneto.....	P5599-A	1
18	CONNECTOR — Fuel Line.....	5053	1
19	COVER — Dust, Magneto Breaker Points.....	10382	1
20	COVER — Valve Chamber.....	10324	1
21	CRANKSHAFT.....	21100	1
22	DECAL — Arrowhead.....	3579	2
23	DECAL — Horsepower.....	21010	1
24	DEFLECTOR ASSEMBLY — Air, Cylinder.....	10006	1
25	DISC — Breather.....	7152	1
26	DISTRIBUTOR — Oil.....	21073	1
27	FELT — Lubrication, Cam Follower.....	P5504	1
28	FLYWHEEL ASSEMBLY — With Magnets.....	5711-A	1
29	GASKET — Air Horn to Air Cleaner.....	10259	1
30	GASKET — Air Horn to Carburetor.....	3990	1
31	GASKET — Breather.....	7153	1
32	GASKET — Cylinder Head.....	10253	1
33	GASKET — Engine Base.....	10254	1
34	GASKET — Asbestos (Carburetor to Block).....	6002	1
35	GASKET — Cover, Dust (Breaker Points).....	10250	1
36	GASKET — Oil Filler Cap.....	3297	1
37	GASKET — Spark Plug.....	3115	1
38	GASKET — Valve Chamber Cover.....	10251	1
	GASKET KIT — Engine Overhaul.....	6329	1
39	GROMMET — Magneto (Breaker Lead Wire).....	10367	1
40	HEAD — Cylinder.....	10011	1
41	HORN — Air.....	21350	1
42	HOUSING ASSEMBLY — Blower.....	21007-D	1
43	KEY — Flywheel.....	10339	1
44	LEAD — Hi-Tension, Magneto.....	P2055	1
45	LEVER — Speed Adjusting.....	4441	1
46	LINE — Fuel, Flexible.....	6316	1
47	LINK — Carburetor to Air Vane.....	21020	1

CLINTON

S E R I E S
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BASIC
TYPE

BASIC PARTS LIST (Continued)

Ref. No.	PART DESCRIPTION	Part No.	Quantity
48	LOCK — Double, Connecting Rod Screw	21318	1
49	MUFFLER — (45° Inlet)	4500	1
50	NUT — Hex., 7/16-20 (Starter Pulley)	3250	1
51	NUT — Lock, Muffler	4425	1
52	NUT — Wing (Air Cleaner)	7044	1
53	NUT & LOCKWASHER ASSEMBLY — 1/4-28 Hex.	3255-A	2
54	PIN — Camshaft Axle	10392	1
55	PIN — Pivot, Air Vane Governor	7238	1
56	PIN — Wrist	6024	1
57	PISTON — Standard	31001	1
	PISTON ASSEMBLY — Standard	31001-A	1
	NOTE: Piston Assemblies are available in the following oversizes: .005, .010, .020, .030, and .040. Order by Part Number and Specify Oversize.		
	NOTE: Piston Assembly includes Ref. Nos. 56, 57, 65, 66, 67, 68.		
58	PLATE — Name	6530	1
59	PLATE ASSEMBLY — Bearing	10060-B	1
60	PLATE — Valve Spring Retaining	10013	1
61	PLUG — 1/4 N.P.T. (Oil Drain)	3289	2
62	PULLEY — Starter	3299	1
63	RETAINER — Air Vane	4430	1
64	RETAINER — Valve Spring	3028	2
65	RING — Compression, Standard	6026	1
66	RING — Oil, Standard	6006	1
67	RING — Retainer, Wrist Pin	6034	2
68	RING — Scraper, Standard	6027	1
	RING SET — Standard	10023	1
	NOTE: Ring Sets are available in the following oversizes: .005, .010, .020, .030, and .040. Order by Part Number and Specify Oversize.		
	NOTE: Ring Set includes Ref. Nos. 65, 66, 68.		
69	RIVET — Tubular (Name Plate)	5460	4
70	ROD ASSEMBLY — Connecting	10002-A	1
71	ROPE ASSEMBLY — Starter	4266	1
72	SCREEN — Revolving	7187	1
73	SCREW — H.H.C., 1/4-28 x 1 1/8 (Connecting Rod Cap)	5635	2
74	SCREW — R.H.M., #6-32 x 1/4 (Breaker Points Terminal)	5664	1
75	SCREW — S.H.H.S.T., #8-32 x 3/8 (2—Deflector to Block; 2—Dust Cover to Block)	5644	4
76	SCREW — R.H.M., #10-24 x 6 1/4 (Air Cleaner to Air Horn)	5636	1
77	SCREW — H.W.H., 5/16-18 x 1 7/8 (Cylinder Head to Block)	5654	8
78	SCREW — R.H.M., #10-32 x 3/8 (Speed Adjusting Lever)	4440	1
79	SCREW — (Coil to Laminations)	5641	1
80	SCREW & LOCKWASHER ASSEMBLY — H.H.C., 1/4-20 x 5/8 (1—Deflector to Block; 2—Blower Housing to Block)	3632-G	3
81	SCREW & LOCKWASHER ASSEMBLY — H.H.C., 1/4-20 x 1 1/4 (Bearing Plate to Block)	5613-G	6
82	SCREW & LOCKWASHER ASSEMBLY — H.H.S.T., #10-24 x 1 (Laminations to Block)	5982-A	2
83	SCREW & LOCKWASHER ASSEMBLY — R.H.M., #6-32 x 5/16 (Breaker Points to Block)	5444-F	1
84	SCREW & LOCKWASHER ASSEMBLY — R.H.M., #8-32 x 11/16 (Air Horn to Carburetor)	5677-A	2
85	SCREW & LOCKWASHER ASSEMBLY — R.H.M., #10-23 x 1 (Blower Housing to Tank)	5643-A	2
86	SCREW & LOCKWASHER ASSEMBLY — S.H.H.C., #10-24 x 1/2 (Valve Chamber Cover)	5645-A	2
87	SEAL — Oil (Block)	10012	1
88	SEAL — Bearing Plate Assembly	3026	1

CLINTON

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BASIC
TYPE

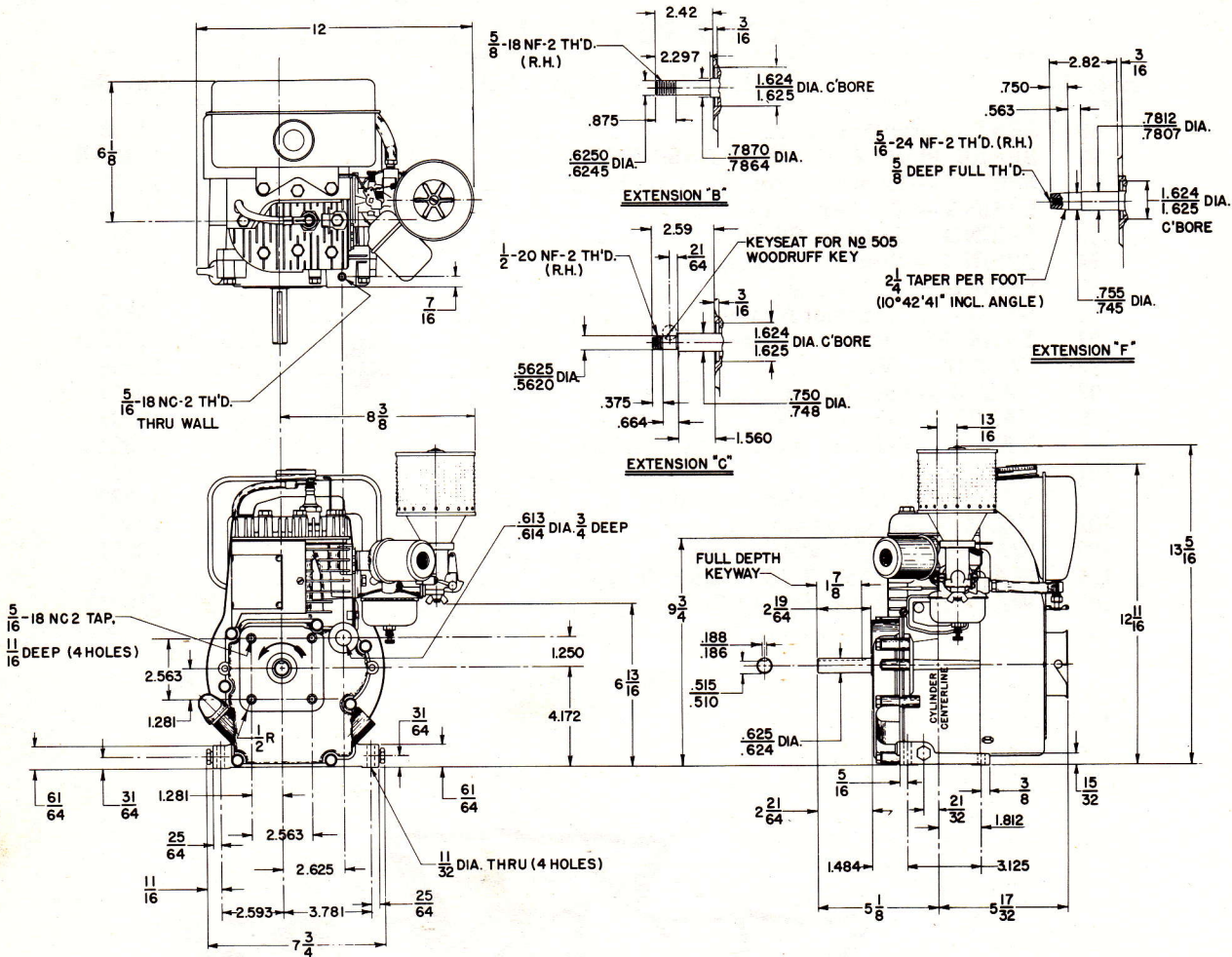
SEC. II, DIV. A-2100-1000
PARTS CATALOG
Revised February, 1957
Supersedes May, 1956

BASIC PARTS LIST (Continued)

Ref. No.	PART DESCRIPTION	Part No.	Quantity
89	SEAT — Breather	4438	1
90	SPARK PLUG & GASKET ASSEMBLY	16303-A	1
91	SPRING — Compression (Air Vane)	10005	1
92	SPRING — Air Governor	10336	1
93	SPRING — Ignition Shorting Clip	10369	1
94	SPRING — Breather Hold-Down	10381	1
95	SPRING — Valve	3068	2
96	STUD — Carburetor Mounting	5659	2
97	TANK ASSEMBLY — Fuel	21380-A	1
98	TAPPET — Valve	10009	2
99	VALVE — Fuel Shut-Off, Flexible Line	5051	1
100	VALVE — Exhaust	10301	1
	VALVE — Exhaust (oversize .010)	10321	1
101	VALVE — Intake	10302	1
	VALVE — Intake (oversize .010)	10322	1
102	VANE — Air Governor	10393	1
103	WASHER — "C," Valve Keeper	3291	2
104	WASHER — Lock, 7/16 (Starter Pulley)	3275	1
105	WASHER — Lock, Spring Tension	21305	1



**DIMENSIONAL
SPECIFICATIONS
AND POWER DATA**



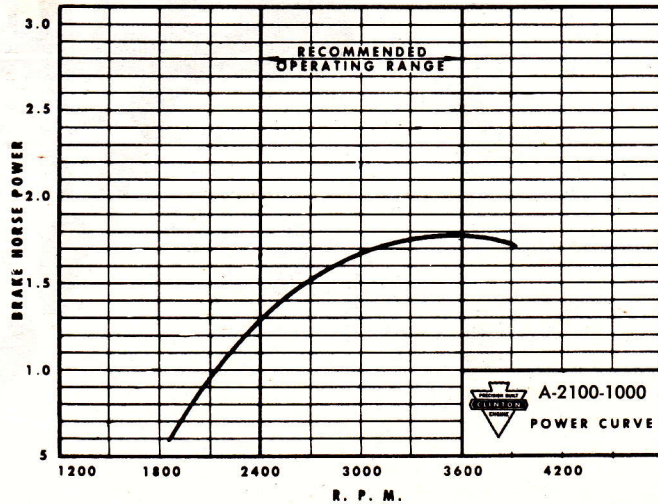
POWER DATA

The performance and power analysis figures for the Clinton Engine series show the rated Brake Horse Power developed from test-run engines. The standard engine equipped with standard air cleaner and muffler was used, in every case, for these tests and the figures have been corrected for barometer at sea level and temperature of 60° F. Production engines when shipped will develop not less than 85% of rated B.H.P.

Production engines, after run-in to reduce friction will develop not less than 95% of the rated B.H.P.

Engine power will decrease 3% for each 1,000 feet above sea level, and 1% for each 10° F. above standard temperature of 60° F.

Unless otherwise specified, governors are set to operate at 3,300 R.P.M. without load. Complete details of installations requiring continuous operation at other than recommended speeds should be referred to the factory for approval.



CABLE ADDRESS: ENGINES U. S. A.

ENGINE DIVISION OF CLINTON MACHINE CO.

MAQUOKETA, IOWA

CLINTON

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A-2100-1000					
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MODEL VARIATIONS
SEC. II, DIV. A-2100-1000
PARTS CATALOG
 Revised January, 1959
 Supersedes March, 1958

MODEL VARIATIONS OF A-2100-1000 SERIES

The adaptation of Clinton Engines to a wide variety of uses results in what is known as "Model Variations." Following is the complete list of all Models produced up to issue date (shown above). Opposite each Engine Model listed are the Part Numbers and/or Assembly Numbers for the Series used IN ADDITION TO or IN PLACE OF the parts illustrated and shown on the Basic Parts List preceding this Model Variations List. Refer to other sections of this Manual when Assembly Numbers are given to find the Parts List for these assemblies.

See page (a) on "How to Identify Your Clinton Engine." Use the preceding Basic Parts List except as shown below.

ENGINE MODEL—See page (a), "How to Identify Your Clinton Engine."	FOOTNOTES (Check page 4).	CONTROL GROUP (Control Group Illustration Numbers Shown). Refer to Sec. III, Div. D for Parts List.	CONTROL CABLE LENGTH — Replacement cable is furnished in 72" length ONLY, cut to length shown.	CRANKSHAFT (Part Numbers Shown). Refer to Sec. IV, Div. B for details and further information.	PLATE ASSEMBLY — BEARING (Part Numbers Shown). Refer to Illustrated Basic Parts List for corresponding part.	STARTER—RECOIL. Refer to Sec. III, Div. H for Parts List.	HOUSING ASSEMBLY — BLOWER (Part Numbers Shown). Refer to Illustrated Basic Parts List for corresponding part.	REDUCTION GEAR (Assy. Nos. Shown). Refer to Sec. III, Div. C for Parts List.	REDUCTION GEAR MOUNTING POSITION—"Clock" position shows mounting of reduction unit in relation to Crankshaft.	BLOCK ASSEMBLY — CYLINDER (Part Number Shown). Refer to Illustrated Basic Parts List for corresponding part.
A-2100-1100		SK560	72"							
A-2100-1107		SK560	72"							
A-2100-1110		SK560	72"	21102						
A-2100-1116	Notes 5, 7, 22, 23			21112	10062			21000-A		
A-2100-1117	Note 8	SK560								
A-2100-1118	Note 2				10061-A	Yes		21013-F		
A-2100-1119		SK560								
A-2100-1121				21102						
A-2100-1123					10061-A					
A-2100-1125		SK560				Yes		21013-F		
A-2100-1126	No Variation—Use Basic Parts List									
A-2100-1127						Yes		21013-F		
A-2100-1128					10061-A	Yes		21013-F		
A-2100-1129	Note 10					Yes		21013-F		10207-B
A-2100-1130	Note 10									10207-B
A-2100-1131				21102						
A-2100-1132		SK560	72"			Yes		21013-F		
A-2100-1134		SK560	72"	21102		Yes		21013-F		
A-2100-1135						Yes		21013-F		
A-2100-1136	Note 8									
A-2100-1137	No Variation—Use Basic Parts List									
A-2100-1138		SK563			10061-A	Yes		21013-F		
A-2100-1139		SK560				Yes		21013-F		
A-2100-1140		SK560								
A-2100-1141	Note 8					Yes		21013-F		
A-2100-1142	Notes 11, 12				10061-A	Yes		21013-F		
A-2100-1143	Note 3									
A-2100-1144	No Variation—Use Basic Parts List									
A-2100-1145	Note 7				10061-A			21000-A		
A-2100-1146		SK562								
A-2100-1147		SK560								
A-2100-1148		SK560	72"		10061-A					

CLINTON

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 G E M

MODEL
 VARIATIONS

MODEL VARIATIONS OF A-2100-1000 SERIES (Cont.)

ENGINE MODEL	FOOTNOTES	CONTROL GROUP	CONTROL CABLE LENGTH	CRANKSHAFT	PLATE ASSEMBLY—BEARING	STARTER—RECOIL	HOUSING ASSEMBLY—BLOWER	REDUCTION GEAR	MOUNTING POSITION	BLOCK ASSEMBLY—CYLINDER
A-2100-1149		SK560	72"		10061-A	Yes	21013-F			
A-2100-1150	Notes 1, 9, 12				10061-A	Yes	21013-F			
A-2100-1151	Notes 1, 12	SK560			10061-A	Yes	21013-F			
A-2100-1152	Note 1			21105	10061-A					
A-2100-1153				21102	10061-A	Yes	21013-F			
A-2100-1154		SK560	72"							
A-2100-1155	Note 11									
A-2100-1156						Yes	21013-F			
A-2100-1157	Note 19	SK560	72"			Yes	21013-F			
A-2100-1158	Notes 9, 15					Yes	21013-F			
A-2100-1159	Note 8									
A-2100-1160							21013-F			
A-2100-1161		SK562								
A-2100-1162	Notes 1, 16			21105	10061-A					
A-2100-1163	No Variation—Use Basic Parts List									
A-2100-1164	Note 3									
A-2100-1165	Note 11			21102	10061-A	Yes	21013-F			
A-2100-1166	Note 18	SK560	72"			Yes	21013-F			
A-2100-1167						Yes	21013-F			
A-2100-1168		SK560		21111		Yes	21013-F			
A-2100-1169	Note 11				10061-A					
A-2100-1170	Note 9	SK560				Yes	21013-F			
A-2100-1171	Note 9	SK560	72"			Yes	21013-F			
A-2100-1172	Note 19				10061-A	Yes	21013-F			
A-2100-1173	Note 7	SK563								
A-2100-1174	Note 7					Yes	21013-F			
A-2100-1175		SK560		21102						
A-2100-1176		SK560		21102		Yes	21013-F			
A-2100-1177		SK563		21102		Yes	21013-F			
A-2100-1178	Notes 8, 9, 20	SK563				Yes	21013-F			
A-2100-1179		SK563								
A-2100-1180		SK560			10061-D					
A-2100-1181		SK560			10061-D	Yes	21013-F			
A-2100-1182	Note 19									
A-2100-1183				21105						
A-2100-1184				21105		Yes	21013-F			
A-2100-1185						Yes	21013-F			
A-2100-1186	Note 8					Yes	21013-F			
A-2100-1187					10061-D	Yes	21013-F			
A-2100-1500	No Variation—Use Basic Parts List									
A-2120-1000	Note 6			21111				3552	6:00	
A-2140-1000	Note 6			21104				3554	6:00	
A-2140-1100	Note 6	SK560	72"	21104				3554	6:00	
A-2140-1102	Note 6	SK560	72"	21104				3554	6:00	
A-2140-1104	Note 6	SK560	72"	21104				3554	6:00	
A-2160-1000	Note 6			21106				3800	6:00	

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**MODEL
VARIATIONS**
**SEC. II, DIV. A-2100-1000
PARTS CATALOG**
 Revised January, 1959
 Supersedes March, 1958

MODEL VARIATIONS OF A-2100-1000 SERIES (Cont.)

ENGINE MODEL	FOOTNOTES	CONTROL GROUP	CONTROL CABLE LENGTH	CRANKSHAFT	PLATE ASSEMBLY— BEARING	STARTER— RECOIL	HOUSING ASSEMBLY— BLOWER	REDUCTION GEAR	MOUNTING POSITION	BLOCK ASSEMBLY— CYLINDER
A-2160-1100	Note 6			21106				3800	9:00	
A-2160-1101	Note 6	SK560		21106				3800	6:00	
A-2160-1102	Note 6			21106		Yes	21013-F	3800	9:00	
A-2160-1103	Notes 6, 9, 13			21106	10061-A			3800	6:00	
A-2160-1104	Notes 6, 8			21106				3800	6:00	
A-2160-1105	Notes 6, 8	SK560		21106				3800	6:00	
A-2160-1106	Note 6			21106		Yes	21013-F	3800	6:00	
A-2160-1107	Note 6			21106				3800	12:00	
A-2190-1100	Note 5			21107	10062-A					
A-2190-1101	Notes 3, 5			21107	10062-A					
A-2190-1102	Note 5			21112	10062-A					
A-2190-1103	Note 5	SK560	72"	21107	10062-A					
A-2190-1104	Notes 5, 16, 17			21113	10064-A					
A-2190-1105	Notes 5, 7, 15			21107	10062-A		21000-A			
A-2190-1106	Note 5			21110	10062-A	Yes	21013-F			
A-2190-1107	Note 5			21110	10062-A					
A-2190-1108	Notes 5, 9			21107	10062-A					
A-2190-1109	Notes 5, 13, 14			21115	10062-A					
A-2190-1110	Note 5			21110	10062-A					
A-2190-1111	Note 5			21109	10062-A					
A-2190-1112	Notes 5, 13, 21			21115	10065-A	Yes	21013-F			
A-2190-1113	Notes 5, 8	SK560		21110	10062-A	Yes	21013-F			
A-2190-1114	Notes 1, 5, 8, 9, 20	SK563		21110	10062-A	Yes	21013-F			
A-2190-1115	Note 5			21112	10062-A	Yes	21013-F			
A-2190-1116	Notes 5, 7			21112	10062-A		21000-A			
A-2190-1503	Notes 3, 5, 16			21107	10062-A					
A-2190-1504	Notes 3, 5			21107	10062-A					
A-2190-1509	Notes 3, 5			21107	10062-A					

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MODEL
VARIATIONS

MODEL VARIATIONS OF A-2100-1000 SERIES (Cont.)

- NOTE 1—Use #3639 Muffler, and #7274 Elbow in lieu of #4500.
- NOTE 2—Use #6331 Air Cleaner Assembly in lieu of #4546-A.
- NOTE 3—Use #4512-A Air Cleaner in lieu of #4546-A.
- NOTE 4—Use #7157 Stop, Additional Part.
- NOTE 5—Use #21327 Gasket, #21329 Ring, Additional Parts.
- NOTE 6—Use #3136 Seal in lieu of #3026.
- NOTE 7—Use #21051 Tank, #21352 Bracket, #7943 Strap, #5421-A Screw & L'Washer Assembly.
- NOTE 8—Use #21351 Horn, #4533 Breather Tube, #10353 Sleeve, #5052 Connector.
- NOTE 9—Use #P-5567-A Wire Assembly, #5644 Screw, #10366 Grommet and #P-5566 Grommet.
- NOTE 10—Use #14023 Carburetor.
- NOTE 11—Use #4583 Speed Control Lever, #7453 Stop, and #3222-F & #7143-A Screw and L'Washer Assemblies.
- NOTE 12—Use #2129-A Air Cleaner.
- NOTE 13—Use #4557 Air Cleaner and #6452 Air Horn.
- NOTE 14—Use #31379 Valve Seat Insert and #21301 Valve (Exh.) as Intake Valve.
- NOTE 15—Use #10312 Cylinder Head, #3576 Nipple, #4584 Valve, #4585 Cup and #5052 Elbow.
- NOTE 16—Use #10312 Cylinder Head, #3576 Nipple, #4525 "Tee" and #4527 Cup.
- NOTE 17—Use #7924 Spacer (2) and #5685 Screw (2).
- NOTE 18—Use #6426 Clip and #4181 Cover, Spark Plug.
- NOTE 19—Use #6343 Muffler.
- NOTE 20—Use #5712-A Lead Assembly, #P-5575-A Cover & Cup Assembly, #5647 Screw.
- NOTE 21—Use #31379 Insert, #21301 Valve, Stellite.
- NOTE 22—Use #21306 Seal, Oil in lieu of #3026 and #21328 Retainer, Bearing.
- NOTE 23—Use #3670 Main Bearing.

