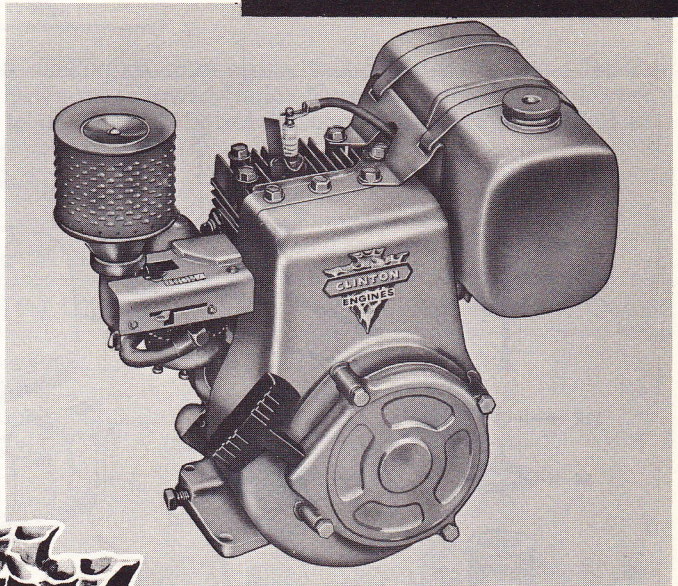
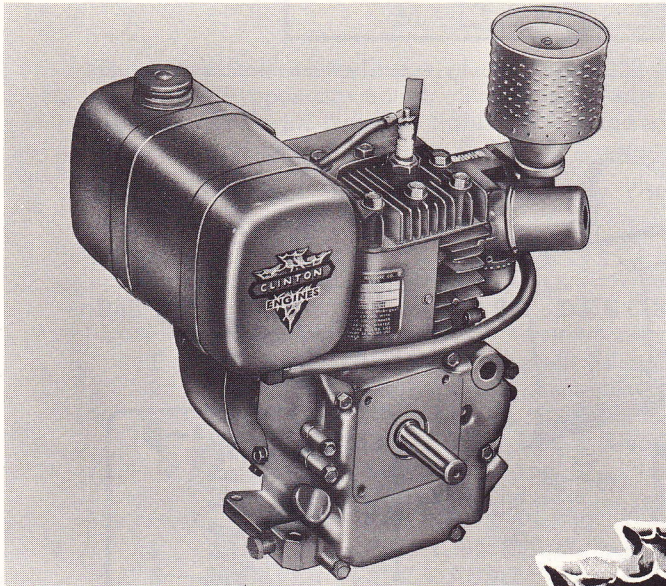


S E R I E S
3100-2000
 G E M



A Wide Range of Models are Made By **CLINTON** For Farm, Home and Industrial Use.

CLINTON
ENGINES

3100-2000	H.P.	R.P.M.	H.P.	R.P.M.
	1.4	1800	2.8	3000
	2.2	2400	3.0	3600

GENERAL SPECIFICATIONS

Model	Type	Description	Starter	Weight
3100-2000	Air-Cooled	Horizontal Shaft	Rope	23 lbs.
3100-2000	Air-Cooled	Horizontal Shaft	Recoil	24½ lbs.

BORE: 2¾"

STROKE: 1⅞"

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

AIR COOLING: Large capacity, curved vane blower cast integral with flywheel. Air passes through deep fins to maintain correct operating temperature, rotating blower screen.

PISTON DISPLACEMENT: 8.3 cu. inches.

IGNITION: Very high voltage, built-in flywheel magneto for faster starting. Moisture and dust-proof with fully enclosed ignition points. Positive safety ON-OFF device on spark plug.

SPARK PLUG: 14 mm.

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

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

GOVERNOR: Adjustable, pneumatic type. Available with Carburetor Shroud with variable speed control.

MAIN BEARINGS: Bronze.

CRANKSHAFT: Ductile iron. Counterweights and cam drive gear integral with shaft.

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

PISTON: Aluminum alloy. Clinton-engineered for efficient combustion.

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

VALVES: 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, with extra deep cooling fins, removable.

VACUUM BREATHER: Maintains vacuum in crankcase and prevents oil leaks.

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

AIR CLEANER: Heavy duty, automotive, dry type.

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

OIL RESERVOIR: 1¼ pints capacity.

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

FINISH: Red heat-resisting enamel. Other colors available upon special order.

STANDARD EQUIPMENT

Standard equipment includes: Muffler, splash-proof fuel tank cap and starting rope.

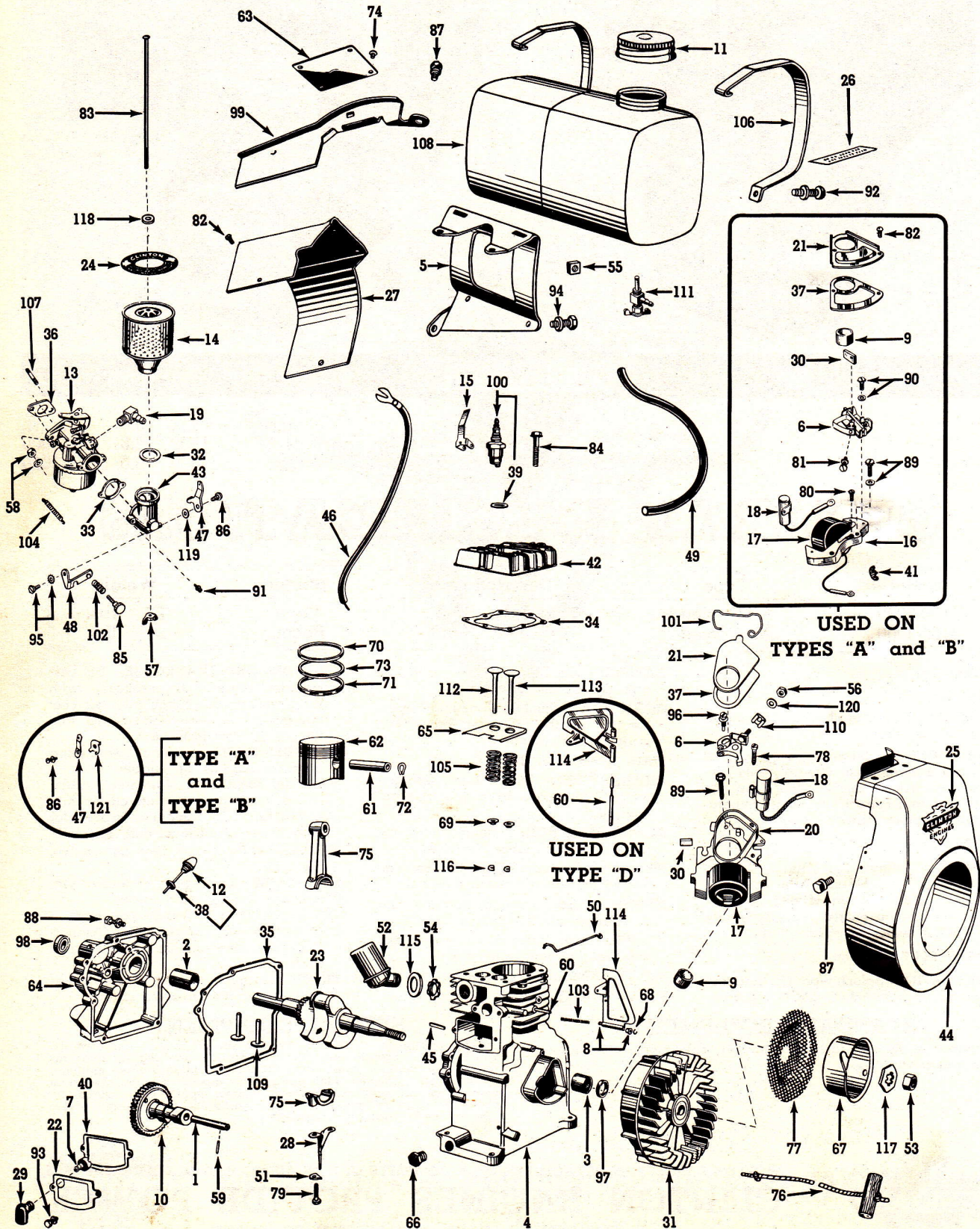
SPECIAL EQUIPMENT

Special equipment includes: Remote throttle cable and controls, Touch 'N' Go throttle control, recoil starter, shorting terminal for remote stop hookup, commercial ignition shielding, deluxe mufflers, special paint finishes, fuel pump, L.P. gas conversion, kerosene conversion, oil bath air cleaner, resistor spark plug, automatic choke, mechanical governor, valve guide inserts, Stellite valves. (Quotations available on request.)



WORLD'S LARGEST MANUFACTURER OF A COMPLETE LINE OF AIR-COOLED GASOLINE ENGINES
CLINTON ENGINES PROVIDE POWER
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S E R I E S
3100-2000
G E M

**BASIC
TYPE**

SEC. II, DIV. 3100-2000
PARTS CATALOG
 Revised Nov., 1959
 Supersedes Dec., 1958

There are four Basic Types of the 3100-2000 Series 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; Serial Number Suffix "C"—referred to as Type C; and Serial Number Suffix "D"—referred to as Type D.

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

BASIC PARTS LIST

Ref. No.	PART DESCRIPTION	Part No.	Quantity
1	AXLE ASSEMBLY — Camshaft (Includes Pin) -----	21310-A	1
2	BEARING — Sleeve (Plate Assembly) -----	21016	1
3	BEARING — Main Sleeve (Cylinder Block) -----	90278	1
4	BLOCK ASSEMBLY — Cylinder (Used on Types A and B) ----- Includes Ref. Nos. 3 and 97.	31201-A	1
	BLOCK ASSEMBLY — Cylinder (Used on Types C and D) ----- Includes Ref. Nos. 3 and 97.	31218-A	1
5	BRACKET — Fuel Tank Mounting -----	21352	1
6	BREAKER POINTS ASSEMBLY — (Used on Types A and B) ----- Includes Ref. Nos. 30, 81 and 90.	P5543	1
	BREAKER POINTS ASSEMBLY — (Used on Types C and D) ----- Includes Ref. Nos. 30, 56, 96 and 120.	P5735	1
7	BREATHER ASSEMBLY -----	6354	1
8	BUSHING — Air Vane (Used on Types A, B and C) -----	7239	2
9	CAM — Magneto Breaker (Used on Types A and B) -----	5707	1
	CAM — Magneto Breaker (Used on Types C and D) -----	5751	1
10	CAMSHAFT -----	31010	1
11	CAP & GASKET ASSEMBLY — Fuel -----	4517-A	1
12	CAP & GASKET ASSEMBLY — Oil Filler -----	21074-A	1
13	CARBURETOR ASSEMBLY — Clinton ----- For Complete Identification of Carburetors, refer to Sec. III, Div. A, Page 2.	14362	1
14	CLEANER ASSEMBLY — Air -----	4546-A	1
15	CLIP — Ignition Shorting -----	3499	1
16	COIL ASSEMBLY — Magneto (With Laminations) ----- (Used on Types A and B)	P5593-B	1
17	COIL — Magneto (Without Laminations) (Used on Types A and B) -----	P5593-A	1
	COIL — Magneto (Without Laminations) (Used on Types C and D) -----	P5733-A	1
18	CONDENSER — Magneto (Used on Types A and B) -----	P5599-A	1
	CONDENSER — Magneto (Used on Types C and D) -----	P5589-A	1
19	CONNECTOR — 90° Flexible Fuel Line (Carburetor) -----	5052	1
20	CORE & BREAKER BOX ASSEMBLY — (Used on Types C and D) -----	P5732	1
21	COVER — Dust, Magneto Breaker Points (Used on Types A and B) -----	10382	1
	COVER — Dust, Magneto Breaker Points (Used on Types C and D) -----	P5743	1
22	COVER — Valve Chamber -----	10324	1
23	CRANKSHAFT -----	31314-1	1
24	DECAL — Air Cleaner -----	4561	1
25	DECAL — Arrowhead -----	90559	2
26	DECAL — Horsepower -----	90511	1
27	DEFLECTOR — Air Cylinder -----	90504	1
28	DISTRIBUTOR — Oil -----	31017	1
29	ELBOW — Breather -----	90610	1
30	FELT — Lubrication, Cam Follower (Used on Types A and B) -----	P5504	1
	FELT — Lubrication, Cam Follower (Used on Types C and D) -----	P5742	1
31	FLYWHEEL ASSEMBLY — With Magnets -----	5752-A	1
32	GASKET — Air Horn to Air Cleaner -----	10259	1
33	GASKET — Air Horn to Carburetor -----	3990	1
34	GASKET — Cylinder Head -----	10253	1
35	GASKET — Bearing Plate, .015 Standard ----- Available in .010 size -----	10254	1
		10254-1	1
36	GASKET — Asbestos (Carburetor to Block) -----	6002	1
37	GASKET — Cover Dust (Breaker Points) (Used on Types A and B) -----	10250	1
	GASKET — Cover, Dust (Breaker Points) (Used on Types C and D) -----	P5744	1
38	GASKET — Oil Filler Cap -----	3297	1

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S E R I E S
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**BASIC
 TYPE**

BASIC PARTS LIST (Continued)

Ref. No.	PART DESCRIPTION	Part No.	Quantity
39	GASKET — Spark Plug	3115	1
40	GASKET — Valve Chamber Cover	10251	1
	GASKET KIT — Engine Overhaul	91560	1
41	GROMMET — Magneto (Breaker Lead Wire) (Used on Types A and B)	10367	1
42	HEAD — Cylinder	31011	1
43	HORN — Air	21350	1
44	HOUSING ASSEMBLY — Blower	21000-A	1
45	KEY — Flywheel	10339	1
46	LEAD — Hi-Tension, Magneto (Used on Types A and B)	P2055	1
	LEAD — Hi-Tension, Magneto (Used on Types C and D)	P5555	1
47	LEVER — Speed Adjusting (Used on Types A and B)	4441	1
	LEVER — Speed Adjusting (Used on Types C and D)	90584	1
48	LEVER ASSEMBLY — Speed Regulating (Used on Types C and D)	90585-A	1
49	LINE — Flexible Fuel	6316	1
50	LINK — Carburetor to Air Vane (Used on Type A)	21020	1
	LINK — Carburetor to Air Vane (Used on Types B, C and D)	31402	1
51	LOCK — Connecting Rod Screw	31432	2
52	MUFFLER — 45° Inlet	4500	1
53	NUT — Starter Pulley	5942	1
54	NUT — Lock, Muffler	4425	1
55	NUT — Square (Tank Straps)	5450	2
56	NUT — Terminal Condenser Lead (Used on Types C and D)	5740	1
57	NUT — Wing (Air Cleaner)	7044	1
58	NUT & L'WASHER ASS'Y — 1/4-28 Hex. (Carburetor Mounting)	3255-A	2
59	PIN — Camshaft Axle	10392	1
60	PIN — Pivot, Air Vane Governor (Used on Types A, B and C)	7238	1
	PIN — Governor Vane Pivot (Used on Type D)	10015	1
61	PIN — Wrist	6024	1
62	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. 61, 62, 70, 71, 72 & 73.		
63	PLATE — Name	6530	1
64	PLATE ASSEMBLY — Bearing (Includes Ref. Nos. 2 and 98)	10047-A	1
65	PLATE — Valve Spring Retainer	10013	1
66	PLUG — 1/4 N.P.T. (Oil Drain)	3289	2
67	PULLEY — Starting	12397	1
68	RETAINER — Air Vane (Used on Types A, B and C)	4430	1
69	RETAINER — Valve Spring	3028	2
70	RING — Compression, Standard	6026	1
71	RING — Oil, Standard	6006	1
72	RING — Retainer, Wrist Pin	6034	2
73	RING — Scraper, Standard	6027	1
	RING SET — Standard	10023	1
	NOTE: Ring Sets are also available in the following oversizes: .005, .010, .020, .030 and .040. Order by Part Number and specify oversize.		
	NOTE: Ring Set includes Ref. Nos. 70, 71 and 73.		
74	RIVET — Tubular (Name Plate)	5469	4
75	ROD ASSEMBLY — Connecting (Includes Ref. Nos. 51 and 79)	31002-A	1
76	ROPE ASSEMBLY — Starter	4266	1
77	SCREEN — Rotating	90092	1
78	SCREW — R.H.S.T., #8-32 x 4/5 (Condenser to Plate) (Used on Types C and D)	5741	1
79	SCREW — H.H.C., 1/4-20 x 1 1/4 (Connecting Rod Cap)	3235	2
80	SCREW — P.H.S.T., #6-32 x 1/4 (Coil to Laminations) (Used on Types A and B)	5641	1

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**BASIC
TYPE**
 SEC. II, DIV. 3100-2000
 PARTS CATALOG
 Revised Nov., 1959
 Supersedes Dec., 1958
BASIC PARTS LIST (Continued)

Ref. No.	PART DESCRIPTION	Part No.	Quantity
81	SCREW — R.H.M., #6-32 x 1/4 (Breaker Points Terminal) (Used on Types A and B)	5664	1
82	SCREW — S.H.S.T., #8-32 x 3/8 (2—Deflector to Block) (2—Breaker Points Cover Used on Types A and B)	5644	4
83	SCREW — R.H.M., #10-24 x 6 1/4 (Air Cleaner to Air Horn)	5636	1
84	SCREW — H.W.H., 5/16-18 x 1 1/8 (Cylinder Head to Block)	5654	8
85	SCREW — #8-32 x 7/8 Knurled (Speed Control) (Used on Types C and D)	5863	1
86	SCREW — Shoulder, #10-32 x 3/8" (Lever, Speed Adjusting)	4440	1
87	SCREW & L'WASHER ASS'Y — H.H.C., 1/4-20 x 1/2 (Blower Housing to Block)	3205-G	2
88	SCREW & L'WASHER ASS'Y — H.H.C., 1/4-20 x 1 1/4 (Bearing Plate to Block)	5613-G	6
89	SCREW & L'WASHER ASS'Y — H.H.C., #10-24 x 1 (Laminations to Block)	5682-A	2
90	SCREW & L'WASHER ASS'Y — R.H.M., #6-32 x 5/16 (Breaker Points to Block) (Used on Types A and B)	5444-F	1
91	SCREW & L'WASHER ASS'Y — R.H.M., #8-32 x 11/16 (Air Horn to Carburetor)	5677-A	1
92	SCREW & L'WASHER ASS'Y — R.H.M., #10-24 x 1 (Tank Straps to Bracket)	5421-A	2
93	SCREW & L'WASHER ASS'Y — S.H.H.C., #10-24 x 1/2 (Valve Cham- ber Cover)	5645-A	2
94	SCREW & L'WASHER ASS'Y — H.H.C., 1/4-20 x 1 3/8 (Tank Bracket to Block)	5663-G	1
95	SCREW & L'WASHER ASS'Y — H.H.S.T., #10-32 x 3/8 (Speed Regu- lator) (Used on Types C and D)	5838-A	1
96	SCREW & L'WASHER ASS'Y — R.H.M., #8-32 x 3/8 (Breaker Points to Breaker Box) (Used on Types C and D)	5737	1
97	SEAL — Oil (Block)	10012	1
98	SEAL — Oil (Bearing Plate)	3026	1
99	SHIELD — Flywheel	90502	1
100	SPARK PLUG & GASKET ASSEMBLY	K90531-A	1
101	SPRING — Breaker Box Cover	P5745	1
102	SPRING — Compression Knurled Screw (Used on Types C and D)	90586	1
103	SPRING — Compression (Air Vane) (Used on Types A, B and C)	10005	1
104	SPRING — Air Governor (Used on Type A)	10336	1
	SPRING — Air Governor (Used on Types B, C and D)	90842	1
105	SPRING — Valve	3068	2
106	STRAP — Fuel Tank	7943	2
107	STUD — Carburetor Mounting	5659	2
108	TANK ASSEMBLY — Fuel (Includes Ref. No. 11)	21051	1
109	TAPPET — Valve	10009	2
110	TERMINAL — Jamtite Breaker Points (Used on Types C and D)	P5738	1
111	VALVE — Fuel Shut-Off, Flexible Line	5051	1
112	VALVE — Exhaust	10301	1
	VALVE — Exhaust, .010 Oversize	10321	1
113	VALVE — Intake	10302	1
	VALVE — Intake, .010 Oversize	10322	1
114	VANE — Air Governor (Used on Types A, B and C)	10393	1
	VANE — Air Governor (Used on Type D)	10014	1
115	WASHER — Muffler	7444	1
116	WASHER — "C" Valve Keeper	3291	2
117	WASHER — Starter Pulley	5880	1
118	WASHER — Rubber (Screw to Air Cleaner)	5906	1
119	WASHER — Speed Adjusting (Used on Types C and D)	3279	1
120	WASHER — Terminal Condenser Lead (Used on Types C and D)	5739	1
121	WASHER — Spring Tension (Throttle Lever) (Used on Types A and B)	21305	1

MODEL VARIATIONS OF 3100-2000 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 bottom of page).

BASE—ENGINE (Part Numbers Shown). Refer to Sec. IV, Div. A for further information.

BLOCK ASSEMBLY — CYLINDER (Part Number Shown). Refer to illustrated Basic Parts List for corresponding part.

CRANKSHAFT (Part Numbers Shown). Refer to Sec. IV, Div. B for details and further information.

BEARING—MAIN (Part Numbers Shown). Refer to illustrated Basic Parts List for corresponding part.

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.

PLATE ASSEMBLY — BEARING (Part Numbers Shown). Refer to illustrated Basic Parts List for corresponding part.

MUFFLER OR MANIFOLD (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 Basic Parts List for corresponding part.

REDUCTION GEAR (Assy. Nos. Shown). Refer to Sec. III, Div. C for Parts List.

MOUNTING POSITION — "Clock" position shows mounting of reduction unit in relation to Crankshaft.

3100-2000	NO VARIATION—USE BASIC PARTS LIST					
3100-2101			SK-560	72"	P90996	21014-A
3100-2102			SK-560	10048-A	P90996	21014-A
3100-2103	NO VARIATION—USE BASIC PARTS LIST					
3100-2104					P90996	21014-A
3100-2105	Note 1	31300-1	SK-560	10048-A	P90996	21014-A
3100-2106	Notes 1 & 2		SK-560	10048-A	P90996	21014-A
3100-2107				10048-A	P90996	21014-A
3100-2108			SK-560	10048-A		
3100-2110			SK-560	10048-A	P90996	21014-A
3100-2111			SK-560	72"	P90996	21014-A
3100-2114					P90996	21014-A
3100-2115	Notes 1, 3, 4	31225-A	SK-560		P90996	21014-A
3100-2116	Notes 1 & 5		SK-560		6343	P90996 21014-A
3100-2117	Notes 6 & 7	31300-1	SK-560	72"	P90996	21014-A
3100-2118			SK-560	72"	P90996	21014-A
3100-2120	NO VARIATION—USE BASIC PARTS LIST					
3100-2121			SK-560		P90996	21014-A
3100-2122		31300-1	SK-560	72"	P90996	21014-A
3100-2123				10048-A	P90996	21014-A
3100-2124		31300-1		10048-A		
3100-2125					6343	
3100-2126		31300-1				
3100-2127		31300-1			P90996	21014-A
3100-2128		31300-1	SK-560	72"		
3100-2129					6343	P90996 21014-A
3100-2130	NO VARIATION—USE BASIC PARTS LIST					
3120-2000	Note 8	31302-1				3552 9:00
3140-2000	Note 8	31304-1				3554
3140-2100	Note 8	31304-1				3554 3:00
3140-2101	Note 8	31304-1			6343	3554 3:00
3160-2000	Note 8	31306-1				3800 9:00
3160-2100	Note 8	31306-1			P90996	21014-A 3800 9:00
3160-2101	Note 8	31306-1	SK-560		P90996	21014-A 3800 9:00
3160-2102	Note 8	31306-1		10048-A	P90996	21014-A 3800 6:00
3160-2103	Note 8	31306-1	SK-560	72"	P90996	21014-A 3800 9:00
3190-2000	Note 9	31310-1	3670			10049-A
3190-2101	Note 9	31312	3670			
3190-2104	Notes 9 & 10	10221	31309-1	3670	SK-560	
3190-2105	Notes 9 & 11	31310-1	3670			P90996 21014-A

CLINTON

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3100-2000					
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**MODEL
VARIATIONS**
**SEC. II, DIV. 3100-2000
PARTS CATALOG**
 Revised Nov., 1959
 Supersedes June, 1959

MODEL VARIATIONS OF 3100-2000 SERIES (Cont.)

ENGINE MODEL	FOOTNOTES	BASE—ENGINE	BLOCK ASSEMBLY—CYLINDER	CRANKSHAFT	BEARING—MAIN	CONTROL GROUP	CONTROL CABLE LENGTH	PLATE ASSEMBLY—BEARING	MUFFLER OR MANIFOLD	STARTER—RECOIL	HOUSING ASSEMBLY—BLOWER	REDUCTION GEAR	MOUNTING POSITION
3190-2106	Note 9			31310-1	3670			10049-A		P90996	21014-A		
3190-2107	Note 9			31319	3670					P90996	21014-A		
3190-2108	Note 9			31330	3670			10049-A		P90996	21014-A		
3190-2109	Notes 9 & 12			31318-1	3670			10059-A					
3190-2110	Note 9			31310-1	3670			10049-A		P90996	21014-A		
3190-2112	Note 9			31310-1	3670								
3190-2114	Note 9			31318-1	3670				6343	P90996	21014-A		
3190-2115	Note 9			31318-1	3670								
3190-2117	Note 9			31318-1	3670					P90996	21014-A		

NOTE 1—Use 21351 Horn (Air), 5052 Connector Hose, 4533 Tube (Breather).

NOTE 2—Use 4512-A Air Cleaner.

NOTE 3—Use 90720 Deflector (Cylinder, Air) in lieu of 90504.

NOTE 4—Use 31028 Bracket (Fuel Tank Mounting), 31029 Strap (Fuel Tank) (2), 3205-G Screw & L'Washer, 5613-G Screw & L'Washer.

NOTE 5—Use 5842 Screw (Bearing Plate) (Additional Part).

NOTE 6—Use 4181 Cover (Spark Plug), 3498 Clip (Ignition Shorting).

NOTE 7—Use 7941 Tank Assembly (Fuel).

NOTE 8—Use 3136 Seal.

NOTE 9—Use 21328 Ring (Retaining), 21329 Ring (Retaining), 6189 Spacer, 3764 Seal.

NOTE 10—Use 5573-A Lead (High Tension), 5873 Screw, 15378 Spark Plug, 90485 Shield (Spark Plug), 90597-A Shield Ass'y (Spark Plug), 90486 Clamp (Spark Plug Shield).

NOTE 11—Use 12409-A Wire Ass'y (Ignition Shorting), 5566 Grommet, 5644 Screw, 5522 Nut.

NOTE 12—Use 31512 Insert Valve Seat (Exhaust only), 21301 Valve (Exhaust, Stellite)—Standard Exhaust Valve is to be used as the Intake Valve, 12368-A Tank Ass'y (Fuel), 21352 Bracket (Fuel Tank), 7943 Strap (2), 4584 Valve (3-Way), 5051 Valve (Fuel Shut-Off), 5052 Connector, 5053 Connector, 3576 Nipple (Pipe), 31012 Head.

