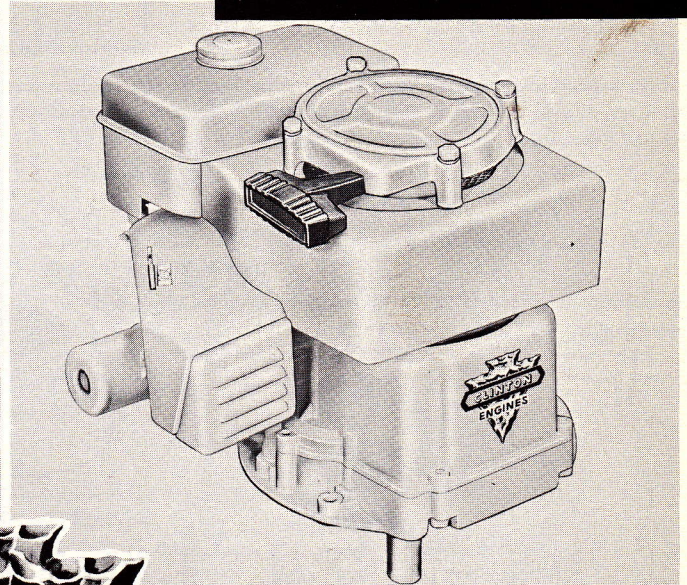
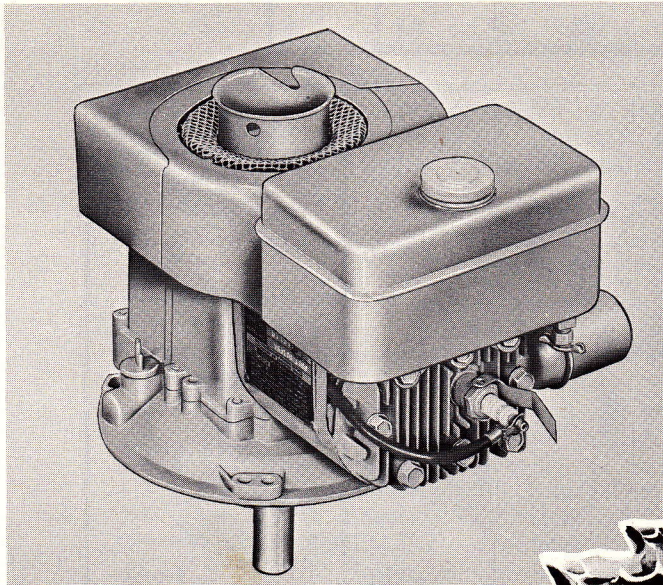


S E R I E S
VS-100-3000
 G E M



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

CLINTON
ENGINES

	H.P.	R.P.M.
VS-100-3000	1.5	2200
	2.0	2800
	2.5	3600

GENERAL SPECIFICATIONS

Model	Type	Description	Starter	Weight
VS-100-3000	Air-Cooled	Vertical Shaft	Rope	20 lbs.
VS-100-3000	Air-Cooled	Vertical Shaft	Recoil	21½ lbs.

BORE: 2¾"

STROKE: 1½"

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 cu. inches.

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

SPARK PLUG: 14 mm.

LUBRICATION: Positive pressure type.

CARBURETOR: Full float feed with idle and high speed adjustment. Choke control on high speed end.

GOVERNOR: Adjustable pneumatic type.

MAIN BEARINGS: Bronze and aluminum.

CRANKSHAFT: Ductile iron. Counter-weights 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 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 for easy check of oil level and for filling.

AIR CLEANER: Heavy duty, automotive, dry type.

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

OIL RESERVOIR: One and one-fourth pints capacity.

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

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

STANDARD EQUIPMENT

Standard equipment includes: Cast iron cylinder liner, replaceable bearing, positive high speed limit, throttle lever for throttle and choke control, heavy duty automotive dry-type horizontal air cleaner, high voltage dust and moisture-proof flywheel magneto, float feed carburetor, fuel tank, low back-pressure muffler, blower housing screen, rope starter, splash-proof gas tank cap, safety stop device, fuel shut-off valve. Crankshaft extension #1 unless otherwise specified.

SPECIAL EQUIPMENT

Special equipment includes: Remote throttle cable and controls, recoil starter, shorting terminal for remote stop hookup, deluxe mufflers, special paint finishes, special Touch 'N' Go controls, resistor spark plugs, special crankshaft extension. (Quotations available on request.)



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

CLINTON ENGINES PROVIDE POWER

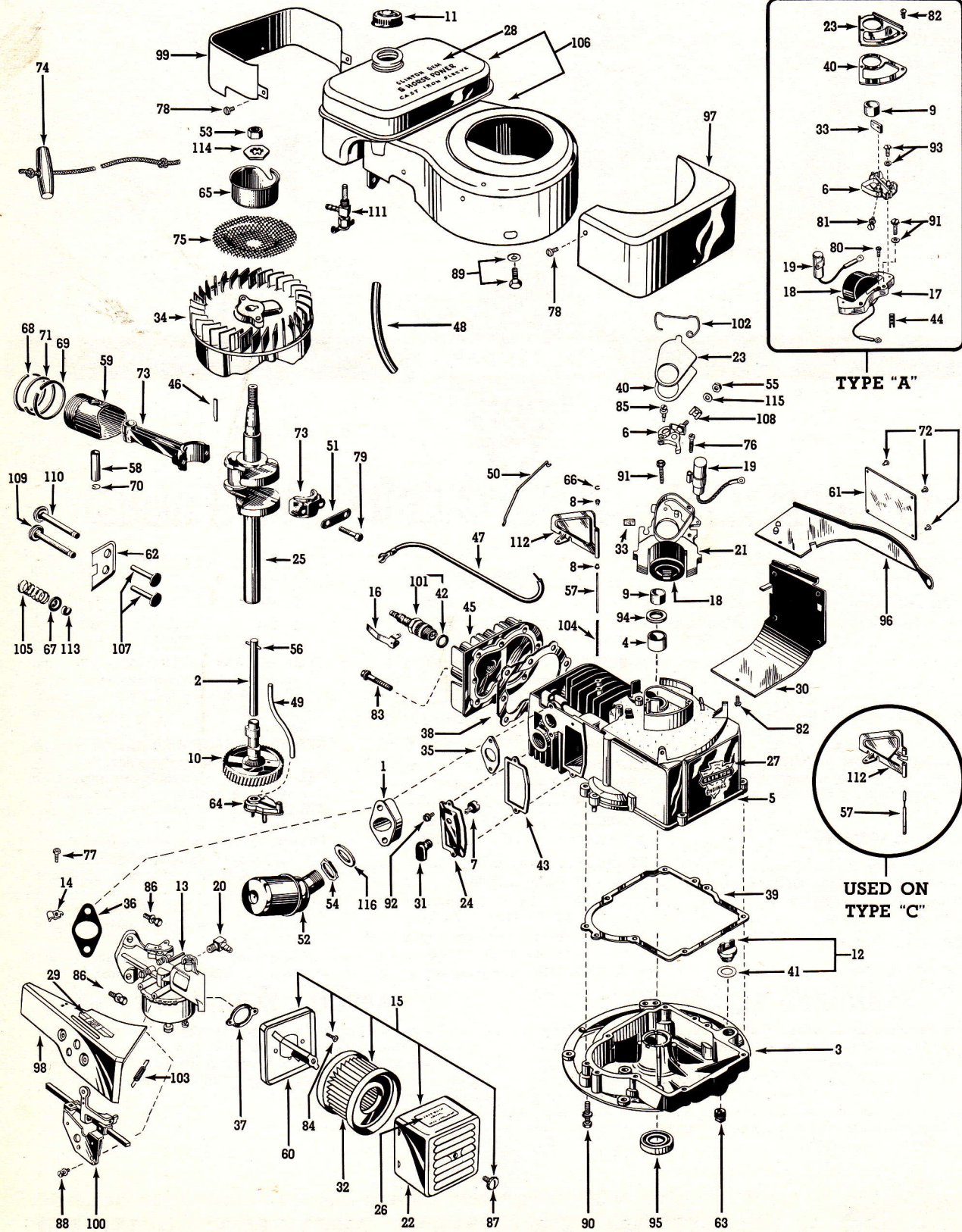
FOR FARM • HOME • INDUSTRIAL EQUIPMENT

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CLINTON

S E R I E S
VS-100-3000
G E M

BASIC
TYPE



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S	E	R	I	E	S
VS-100-3000					
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**BASIC
TYPE**
SEC. II, DIV. VS-100-3000
PARTS CATALOG
 Revised November, 1959
 Supersedes Dec., 1958

There are three Basic Types of the VS-100-3000 Engine covered by this Basic Parts List. These are as follows: Serial Number Suffix "A"—referred to as Type A; Serial Number Suffix "B"—referred to as Type B; and Serial Number Suffix "C"—referred to as Type C.

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

BASIC PARTS LIST

Ref. No.	PART DESCRIPTION	Part No.	Quantity
1	ADAPTER — Carburetor	12367	1
2	AXLE ASSEMBLY — Camshaft (Includes Pin)	10310-A	1
3	BASE ASSEMBLY — Engine	31492	1
4	BEARING — Main (Sleeve)	90278	1
5	BLOCK ASSEMBLY — Cylinder (Used on Type A)	10205-A	1
	NOTE: Assembly includes Ref. Nos. 4 and 94.		
	BLOCK ASSEMBLY — Cylinder (Used on Types B and C)	10213-A	1
	NOTE: Assembly includes Ref. Nos. 4 and 94.		
6	BREAKER POINTS ASSEMBLY — Used on Type A	P5543	1
	NOTE: Assembly includes Ref. Nos. 33, 81, and 93.		
	BREAKER POINTS ASSEMBLY — Used on Types B and C	P5735	1
	NOTE: Assembly includes Ref. Nos. 33, 55, 85, and 115.		
7	BREATHER ASSEMBLY	6354	1
8	BUSHING — Air Vane (Used on Types A and B)	7239	2
9	CAM — Magneto Breaker (Used on Type A)	5707	1
	CAM — Magneto Breaker (Used on Types B and C)	5751	1
10	CAMSHAFT ASSEMBLY	10008-A	1
11	CAP & GASKET ASSEMBLY — Fuel	4517-A	1
12	CAP & GASKET ASSEMBLY — Oil Filler	5096-1	1
13	CARBURETOR ASSEMBLY — Clinton	14055	1
	For complete identification of carburetors, refer to Section III, Div. A, Page 2.		
14	CLAMP — Remote Control	31463	1
15	CLEANER ASSEMBLY — Air	6394	1
	NOTE: Assembly includes Ref. Nos. 22, 32, 60, 84, and 87.		
16	CLIP — Ignition Shorting	3499	1
17	COIL ASSEMBLY — Magneto (With Laminations) (Used on Type A)	P5593-B	1
18	COIL — Magneto (Without Laminations) (Used on Type A)	P5593-A	1
	COIL — Magneto (Without Laminations) (Used on Types B and C)	P5733-A	1
19	CONDENSER — Magneto (Used on Type A)	P5599-A	1
	CONDENSER — Magneto (Used on Types B and C)	P5589-A	1
20	CONNECTOR — 90° Flexible Fuel Line (Carburetor)	5052	1
21	CORE & BREAKER BOX ASS'Y — (Used on Types B and C)	P5732	1
22	COVER — Air Cleaner	31446	1
23	COVER — Dust (Magneto Breaker Points) (Used on Type A)	10382	1
	COVER — Dust (Magneto Breaker Points) (Used on Types B and C)	P5743	1
24	COVER — Valve Chamber	10323	1
25	CRANKSHAFT	10100-1	1
26	DECAL — Air Cleaner	3461	1
27	DECAL — Arrowhead	90559	1
28	DECAL — Horsepower	90492	1
29	DECAL — Throttle Control	3488	1
30	DEFLECTOR ASSEMBLY — Air	90504	1
31	ELBOW — Breather	90610	1
32	ELEMENT — Air Cleaner	31442	1
33	FELT — Lubrication (Cam Follower) (Used on Type A)	P5504	1
	FELT — Lubrication (Cam Follower) (Used on Types B and C)	P5742	1
34	FLYWHEEL ASSEMBLY	5753-A	1
35	GASKET — Adapter to Block	7149	1
36	GASKET — Carburetor to Adapter	31461	1
37	GASKET — Air Cleaner to Carburetor	31445	1
38	GASKET — Cylinder Head	10253	1
39	GASKET — Engine Base (.015 thick)	10254	1
	Available in .010 thickness	10254-1	1

CLINTON

S E R I E S
VS-100-3000
G E M

**BASIC
TYPE**

BASIC PARTS LIST (Continued)

Ref. No.	PART DESCRIPTION	Part No.	Quantity
40	GASKET — Cover, Dust (Breaker Points) (Used on Type A).....	10250	1
	GASKET — Cover, Dust (Breaker Points) (Used on Types B and C)....	P5744	1
41	GASKET — Oil Filler Cap	5097	1
42	GASKET — Spark Plug	3115	1
43	GASKET — Valve Chamber Cover	10251	1
	GASKET KIT — Engine Overhaul.....	91562	1
44	GROMMET — Magneto (Breaker Lead Wire) (Used on Type A).....	10367	1
45	HEAD — Cylinder	10011	1
46	KEY — Flywheel	10339	1
47	LEAD — Hi-Tension, Magneto (Used on Type A).....	P2055	1
	LEAD — Hi-Tension, Magneto (Used on Types B and C).....	P5555	1
48	LINE — Flexible, Fuel	6316	1
49	LINE — Oil Distributor (Oil Pump).....	10390	1
50	LINK — Carburetor to Air Vane.....	31491	1
51	LOCK — Double, Connecting Rod Screw.....	31018	1
52	MUFFLER	3639	1
53	NUT — Hex., ½-20 (Starter Pulley).....	5877	1
54	NUT — Lock (Muffler)	4425	1
55	NUT — Terminal Condenser Lead (Used on Types B and C).....	5740	1
56	PIN — Camshaft Axle	10392	1
57	PIN — Pivot Air Vane Governor (Used on Types A and B).....	7238	1
	PIN — Pivot Air Vane Governor (Used on Type C).....	10015	1
58	PIN — Wrist	6024	1
59	PISTON — Standard	31001	1
	PISTON ASSEMBLY — Standard.....	31001-A	1
	NOTE: Piston Assembly includes Ref. Nos. 58, 59, 68, 69, 70 & 71.		
	NOTE: Piston Assemblies are available in the following oversizes: .005, .010, .020, .030, and .040. Order by Part Number and specify oversize.		
60	PLATE — Air Cleaner Mounting	31444-A	1
61	PLATE — Name	6530	1
62	PLATE — Valve Spring Retainer	10013	1
63	PLUG — ¾ N.P.T. (Oil Drain)	5627	1
64	PUMP ASSEMBLY — Oil	10385-A	1
65	PULLEY — Starter	12397	1
66	RETAINER — Air Vane (Used on Types A and B).....	4430	1
67	RETAINER — Valve Spring	3028	2
68	RING — Compression, Standard	6026	1
69	RING — Oil, Standard	6006	1
70	RING — Retainer (Wrist Pin)	6034	2
71	RING — Scraper (Standard)	6027	1
	RING SET — Standard.....	10023	1
	NOTE: Ring Set includes Ref. Nos. 68, 69, and 71.		
	NOTE: Rings Sets are available in the following oversizes: .005, .010, .020, .030, .040. Order by Part Number and specify oversize.		
72	RIVET — Tubular (4—Name Plate)	5469	4
73	ROD ASSEMBLY — Connecting	10002-A	1
	NOTE: Assembly includes Ref. Nos. 51 and 79.		
74	ROPE ASSEMBLY — Starter	4266	1
75	SCREEN — Rotating	90092	1
76	SCREW — R.H.S.T., #8-32 x 4/5 (Condenser to Plate) (Used on Types B and C).....	5741	1
77	SCREW — H.H.S.T., #8-32 x ¼ (Shroud to Brkt.) (Clamp to Shroud)....	5892	3
78	SCREW — H.H.S.T., #8-18 x ¼ (3—Shroud to Blower Housing) (3—Shroud to Fuel Tank).....	5934	6
79	SCREW — H.H.C., ¼-28 x 1¼ (Connecting Rod Cap).....	3235	2
80	SCREW — P.H.S.T., #4-40 x ¼ (Coil to Laminations) (Used on Type A)	5641	1
81	SCREW — R.H.M., #6-32 x ¼ (Breaker Points Terminal) (Used on Type A).....	5664	1

CLINTON

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VS-100-3000					
G E M					

**BASIC
TYPE**
 SEC. II, DIV. VS-100-3000
 PARTS CATALOG
 Revised November, 1959
 Supersedes Dec., 1958
BASIC PARTS LIST (Continued)

Ref. No.	PART DESCRIPTION	Part No.	Quantity
82	SCREW — H.H.S.T., #8-32 x 3/4 (2—Dust Cover, Used on Type A) (2—Deflector to Block)	5644	4
83	SCREW — H.W.H., 5/16-18 x 1 7/8 (2—Tank Bracket) (6—Cylinder Head)	5654	8
84	SCREW — H.H.C., 8-32 x 7/16, Lock Thread (Air Cleaner Plate to Carburetor)	5812	2
85	SCREW & L'WASHER ASS'Y — O.H. Slotted 8-32 x 9/16 (Breaker Points to Breaker Box) (Used on Types B and C)	5737	1
86	SCREW & L'WASHER ASS'Y — H.H.C., 1/4-28 x 1 3/4 (Carburetor to Block)	5926-G	2
87	SCREW & L'WASHER ASS'Y — R.H.M., #10-32 x 3/8 (Air Cleaner Cover to Bracket)	3216-A	1
88	SCREW & L'WASHER ASS'Y — H.H.C., 8-32 x 3/8 (Bracket to Carb.)	5644-A	2
89	SCREW & L'WASHER ASS'Y — H.H.C., 1/4-20 x 1/2 (Blower Housing to Block)	3205-G	2
90	SCREW & L'WASHER ASS'Y — H.H.C., 1/4-20 x 1 1/4 (Base to Block)	5613-G	7
91	SCREW & L'WASHER ASS'Y — P.H.S.T., #10-24 x 1 (Lamination to Block)	5682-A	2
92	SCREW & L'WASHER ASS'Y — H.H.C., #10-24 x 1/2 (Valve Chamber Cover)	5645-A	2
93	SCREW & L'WASHER ASS'Y — R.H.M., #8-32 x 3/8 (Points to Block) (Used on Type A)	5444-F	1
94	SEAL — Oil (Block)	10012	1
95	SEAL — Oil (Engine Base)	4429	1
96	SHIELD — Flywheel	90502	1
97	SHROUD — Blower Housing	31418	1
98	SHROUD — Carburetor	31435	1
99	SHROUD — Fuel Tank	31419	1
100	SLIDE ASSEMBLY — Governor Regulating	6398	1
101	SPARK PLUG & GASKET ASSEMBLY	K90531-A	1
102	SPRING — Breaker Box Cover (Used on Types B and C)	P5745	1
103	SPRING — Extension (Speed Regulating)	90635	1
104	SPRING — Compression Air Vane (Used on Types A and B)	10005	1
105	SPRING — Valve	3068	2
106	TANK & BLOWER HOUSING ASSEMBLY — Fuel NOTE: Assembly includes Ref. No. 11.	31411-A	1
107	TAPPET — Valve	10009	2
108	TERMINAL — Jamtite Breaker Points (Used on Types B and C)	P5738	1
109	VALVE — Exhaust	10301	1
	VALVE — Exhaust, Oversize .010	10321	1
110	VALVE — Intake	10302	1
	VALVE — Intake, Oversize .010	10322	1
111	VALVE — Fuel Shut-Off	5051	1
112	VANE — Air Governor (Used on Types A and B)	10393	1
	VANE — Air Governor (Used on Type C)	10014	1
113	WASHER — "C" (Valve Keeper)	3291	2
114	WASHER — Starter Pulley	5880	1
115	WASHER — Terminal, Condenser Lead (Used on Types B and C)	5739	1



MODEL VARIATIONS OF VS-100-3000 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.

VS-100-3000	NO VARIATION—USE BASIC PARTS LIST			
VS-100-3100				10101-1
VS-100-3103				10128-1
VS-100-3105				P90996 31413-A
VS-100-3106				P90996 31413-A
VS-100-3107			10119-1	P90996 31413-A
VS-100-3108			10128-1	P90996 31413-A
VS-100-3109			10129-1	P90996 31413-A
VS-100-3110			10113-1	P90996 31413-A
VS-100-3111			10106-1	P90996 31413-A
VS-100-3112			10116-1	P90996 31413-A
VS-100-3113	Note 1	21006-A	72"	4500
VS-100-3115	Note 1	21006-A	10107-1	72" 4500 P90996 31413-A
VS-100-3119	Note 2		10101-1	P90996 31413-A
VS-100-3120	Note 3			P90996 31413-A
VS-100-3121	Note 3			P90996 31413-A
VS-100-3122			10110-1	P90996 31413-A
VS-100-3123			72"	P90996 31413-A
VS-100-3124				6342 P90996 31413-A
VS-100-3125	Note 4			4500 P90996 31413-A
VS-100-3126	Note 3			P90996 31413-A
VS-100-3127	Note 3		10101-1	P90996 31413-A

NOTE 1—Use 5649 Plug (Pipe), and 5655 Plug (Pipe) in lieu of 5627.

NOTE 2—This Unit requires special length rope in Recoil Starter.

NOTE 3—Use 12409-A Wire Assembly, 31486 Grommet, 10364 Clip (Shorting), 14290 Nut (Insulating), 5522 Nut, 5647 Screw, 3462 Decal (Throttle Control).

NOTE 4—Use 31448-A Shroud Assembly (Engine).

