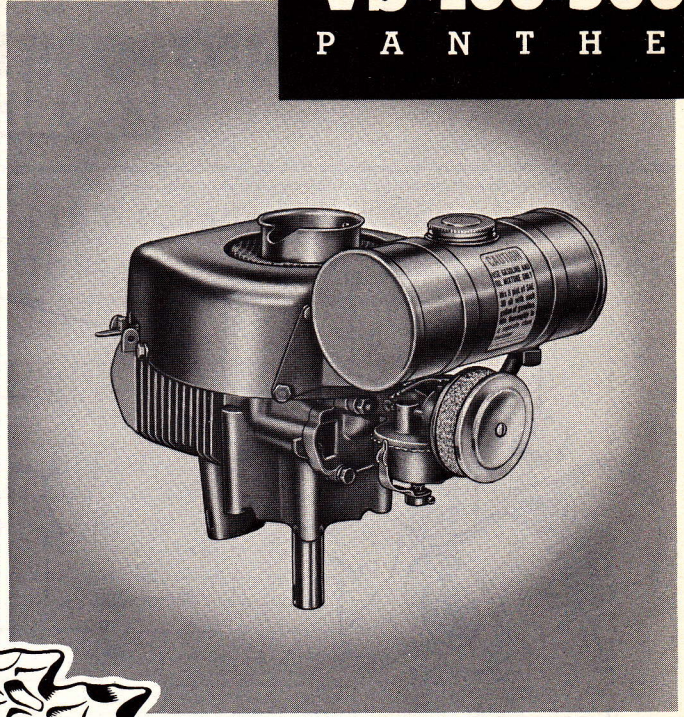
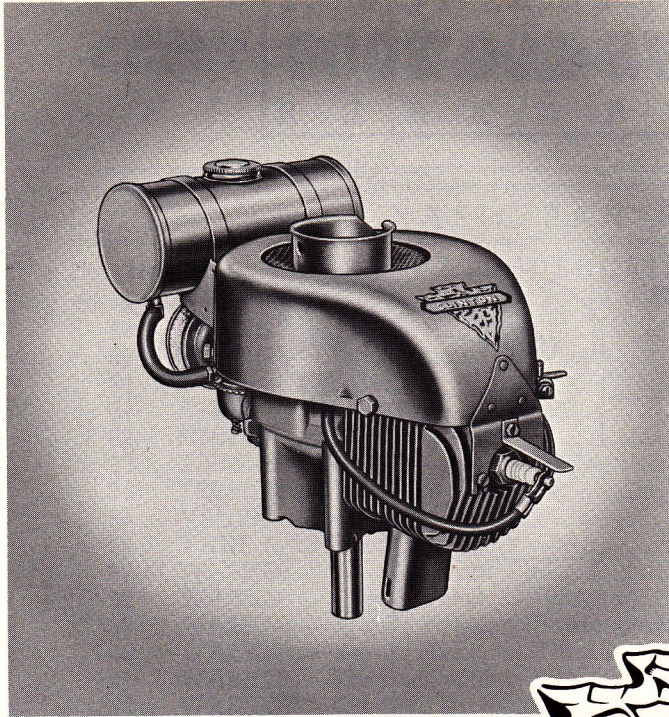


S E R I E S
VS-400-3000
 P A N T H E R



A Wide Range of Models are Made By



For Farm, Home and Industrial Use.

VS-400-3000

H.P.	R.P.M.
1.5	2200
1.9	2800
2.5	3800

GENERAL SPECIFICATIONS

Model	Type	Description	Starter	Weight
VS-400-3000	Air-Cooled	Vertical Shaft	Rope or Recoil	15¾ lbs.

BORE: 2½"

STROKE: 1¾"

TYPE: Single cylinder, vertical shaft, air-cooled.

AIR-COOLED: Powerful flywheel blower forces strong air blast through deep cooling fins on cylinder and cylinder head to maintain correct operating temperature.

PISTON DISPLACEMENT: 5.76 cu. inches.

IGNITION: Very high voltage, built-in flywheel magneto for faster starting. Moisture and dust proof with fully enclosed ignition points. Safety stop switch.

SPARK PLUG: 14 m.m.

LUBRICATION: Lubricating oil carried in fuel to all moving parts.

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

GOVERNOR: Adjustable pneumatic type, statically balanced.

MAIN BEARINGS: Bronze.

CRANKSHAFT: Ductile iron, has counterweights integral with shaft. Bearing surfaces superfinished.

CONNECTING ROD: I-Beam aluminum alloy.

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

PISTON RINGS: Two compression rings.

CYLINDER AND CRANKCASE: One-piece 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: Integral with cylinder casting.

AIR CLEANER: Metallic mesh type.

FUEL TANK: One-quart capacity.

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

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

STANDARD EQUIPMENT

Standard equipment includes: Cast iron cylinder liner, replaceable bearing, air cleaner, specially designed dust and moisture-proof high voltage flywheel magneto, fuel tank, splash-proof gas tank cap, muffler, blower housing screen, rope starter. Safety stop switch.

SPECIAL EQUIPMENT

Special equipment includes: Remote throttle cable and controls, recoil starter, shorting terminal for remote stop hookup, 8-inch circle mounting adapter plate, electric starter, deluxe mufflers, special paint finishes, resistor spark plugs, special crankshaft extensions. (Quotations available on request.)



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

CLINTON ENGINES PROVIDE POWER

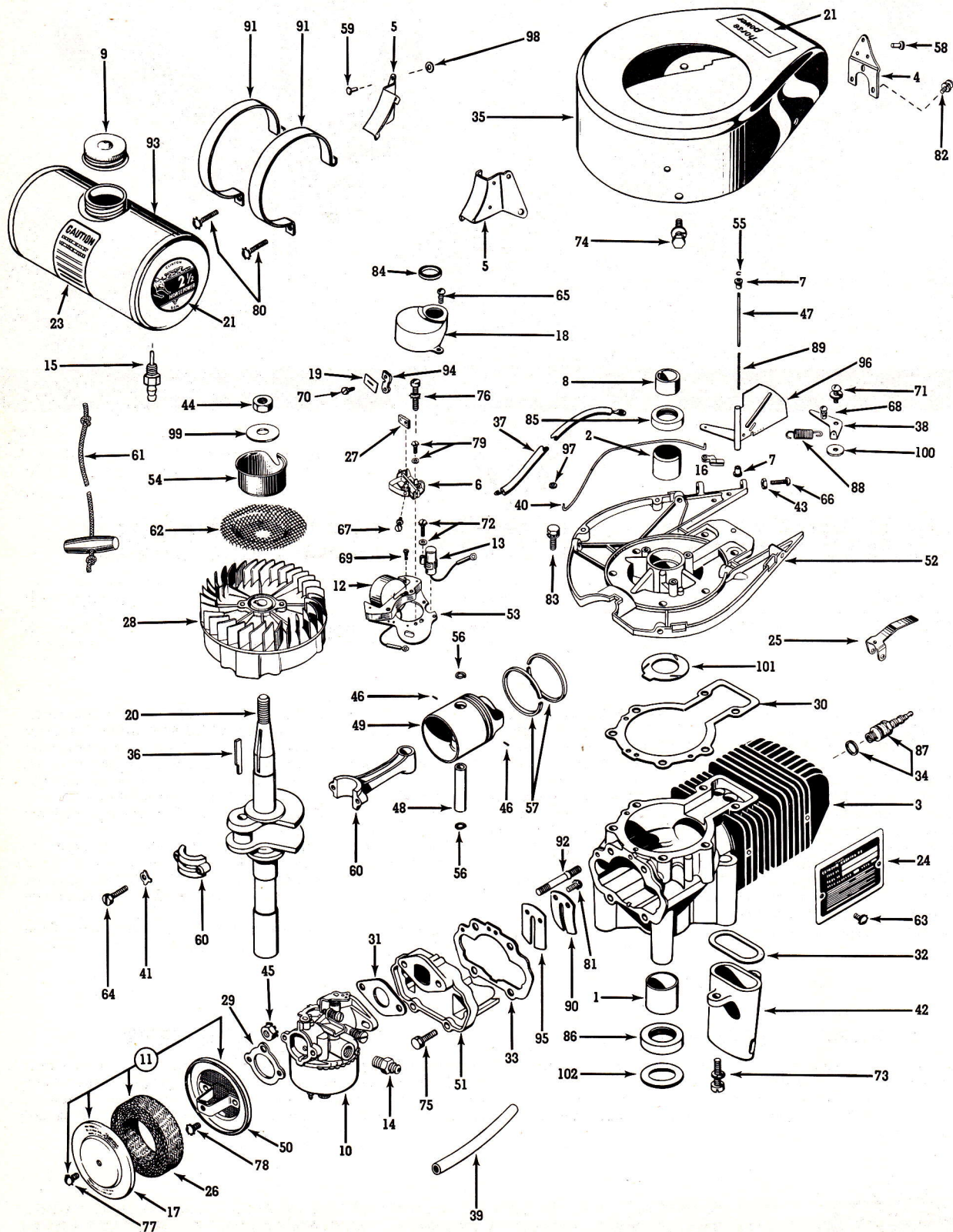
FOR FARM • HOME • INDUSTRIAL EQUIPMENT

PRINTED IN U.S.A.

CLINTON

S E R I E S
VS-400-3000
P A N T H E R

BASIC
TYPE



CLINTON

S	E	R	I	E	S	
VS-400-3000						
P	A	N	T	H	E	R

**BASIC
TYPE**
SEC. II, DIV. VS-400-3000
PARTS CATALOG
 Issued October, 1957

There is one Basic Type of the VS-400-3000 Engine covered by this Basic Parts List.

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

BASIC PARTS LIST

Ref. No.	PART DESCRIPTION	Part No.	Quantity
1	BEARING — Main Sleeve (Block Assembly).....	9016	1
2	BEARING — Sleeve (Bearing Plate).....	2059	1
3	BLOCK ASSEMBLY — Cylinder (includes Ref. Nos. 1 and 86).....	2472	1
4	BRACE — Blower Housing.....	2127	1
5	BRACKET — Fuel Tank (Left Hand).....	2133	1
	BRACKET — Fuel Tank (Right Hand).....	2134	1
6	BREAKER POINTS ASSEMBLY (includes Ref. Nos. 27, 67 and 79).....	P5543	1
7	BUSHING — Air Vane.....	7239	2
8	CAM — Breaker Points.....	5594	1
9	CAP AND GASKET ASSEMBLY — Fuel.....	4517-A	1
10	CARBURETOR ASSEMBLY (Clinton).....	14027	1
	For complete identification of carburetors, refer to Section III, Div. A, page 2.		
11	CLEANER ASSEMBLY — Air.....	2000-A	1
12	COIL — Magneto (without laminations).....	P5593-A	1
13	CONDENSER — Magneto.....	P5589-A	1
14	CONNECTOR — Fuel Line, Flexible (Carburetor).....	5053	1
15	CONNECTOR — Fuel Line (Tank).....	5055	1
16	CONNECTOR — Governor Link to Air Vane.....	2226	1
17	COVER — Air Cleaner.....	2003	1
18	COVER — Breaker Points (with gasket).....	5595-A	1
19	COVER — Breaker Points Terminal (Fish Paper).....	5714	1
20	CRANKSHAFT.....	2370	1
21	DECAL — Horsepower.....	3456	1
22	DECAL — Arrowhead.....	3579	1
23	DECAL — Instruction, Fuel Mixture.....	2098	1
24	DEFLECTOR — Air Cylinder and Name Plate.....	2363	1
25	DEVICE — Ignition Shorting Clip.....	3499	1
26	ELEMENT — Air Cleaner.....	2132	1
27	FELT — Lubrication, Cam Follower.....	P5504	1
28	FLYWHEEL ASSEMBLY.....	5597-A	1
29	GASKET — Air Cleaner.....	2075	1
30	GASKET — Bearing Plate (Standard, .030 thick).....	2039	1
	NOTE: Gaskets are also available in the following thicknesses: .025 and .035. Order by Part Number and specify thickness.		
31	GASKET — Carburetor to Reed Plate.....	2096	1
32	GASKET — Muffler to Block.....	2069	1
33	GASKET — Reed Plate to Block.....	2344	1
34	GASKET — Spark Plug.....	3115	1
	GASKET KIT — Engine Overhaul.....	2203	1
	NOTE: Kit contains all necessary Gaskets and Oil Seals.		
35	HOUSING — Blower and Bracket Assembly.....	2139-A	1
	NOTE: Housing Assembly includes Ref. Nos. 4 and 58.		
36	KEY — Flywheel.....	10339	1
37	LEAD — High Tension Magneto.....	P2055	1
38	LEVER AND SCREW ASSEMBLY — Throttle Control.....	2043-B	1
39	LINE — Fuel (Flexible).....	6316	1
40	LINK — Air Governor.....	2335	1
41	LOCK — Connecting Rod Cap.....	2027	2
42	MUFFLER.....	2082	1
43	NUT — Hexagon, 8-32 (Speed Control Adjusting).....	5522	1
44	NUT — Hexagon, 7/16-20 (Starter Pulley).....	3250	1
45	NUT & L'WASHER ASS'Y — Hexagon, 1/4-28 (Carburetor to Reed Plate).....	3255-A	2
46	PIN — Drive (Ring Retainer).....	2099	2
47	PIN — Pivot, Air Vane.....	7238	1

CLINTON

S E R I E S
VS-400-3000
P A N T H E R

**BASIC
TYPE**

BASIC PARTS LIST (Continued)

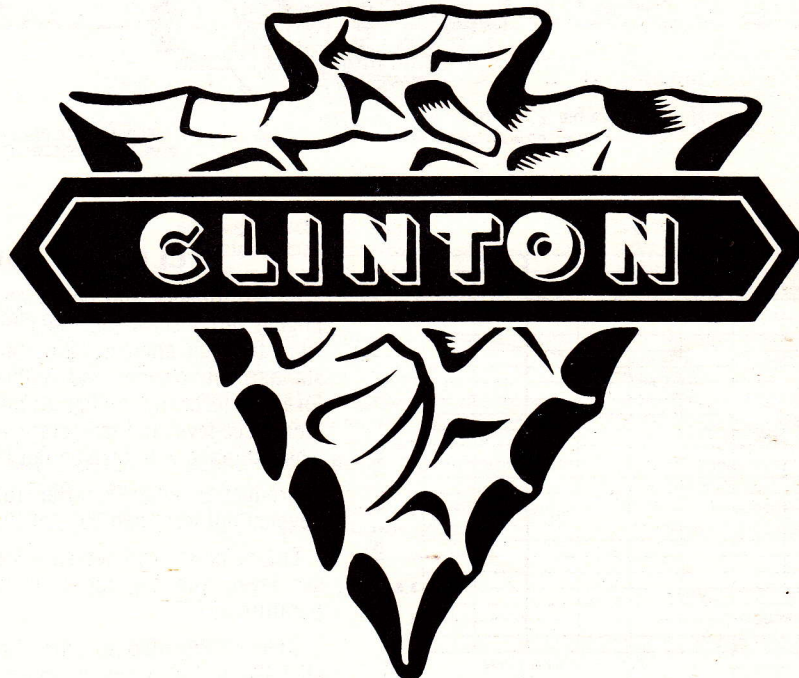
Ref. No.	PART DESCRIPTION	Part No.	Quantity
48	PIN — Wrist	2428	1
49	PISTON — Standard	2430	1
	PISTON ASSEMBLY — Standard	2430-A	1
	NOTE: Piston and Piston Assemblies are available in the following oversizes: .005, .010 and .020. Order by Part Number and specify oversize.		
	NOTE: Piston Assembly includes Ref. Nos. 46, 48, 49, 56 and 57.		
50	PLATE — Air Cleaner Mounting	2001-B	1
51	PLATE — Reed Valve Assembly	2033-A	1
52	PLATE — Bearing	2312-A	1
	NOTE: Bearing Plate includes Ref. Nos. 2 and 85.		
53	PLATE ASSEMBLY — Magneto with Coil and Lamination	P5590-B	1
54	PULLEY — Starter	3299	1
55	RETAINER — Air Vane	4430	1
56	RETAINER — Wrist Pin	3030	1
57	RING — Piston, Standard	2408	2
	RING SET — Piston, Standard	2486	1
	NOTE: Ring Sets are also available in the following oversizes: .005, .010, .020. Order by Part Number and specify oversize.		
58	RIVET — Tubular (Brace to Housing)	5460	3
59	RIVET — Tubular (Bracket to Blower Housing)	3619	2
60	ROD ASSEMBLY — Connecting	2422-A	1
61	ROPE ASSEMBLY — Starting	4266	1
62	SCREEN — Revolving	7187	1
63	SCREW — 8-32 x 8/8 (Deflector to Block)	5644	4
64	SCREW — H.H. Slotted, 10-24 x 3/4 (Connecting Rod Cap)	5429	2
65	SCREW — O.H.S.T., 6-32 x 8/8 (Breaker Cover to Bearing Plate)	5405	2
66	SCREW — R.H.M., 8-32 x 7/8 (Speed Control Adjusting)	3240	1
67	SCREW — R.H.S.T., 6-32 x 1/2 (Breaker Points Terminal)	5664	1
68	SCREW — R.H.M., 8-32 x 1/4 (Throttle Lever)	5404	1
69	SCREW — P.H.S.T., 4-40 x 1/4 (Coil to Laminations)	5641	1
70	SCREW — R.H.M., 6-32 x 1/4 (Breaker Points—Wires to Breaker P.T.)	7143	1
71	SCREW & L'WASHER ASS'Y — R.H.M., 8-32 x 1/2 (Speed Control Lever)	5443-D	1
72	SCREW & L'WASHER ASS'Y — F.H.M., 8-32 x 3/8 (Condenser to Bearing Plate)	5674-F	1
73	SCREW & L'WASHER ASS'Y — F.H.M., 1/4-20 x 3/4 (Muffler to Block)	5679-G	2
74	SCREW & L'WASHER ASS'Y — H.H.C., 1/4-20 x 1/2 (Blower Housing to Plate)	3632-G	4
75	SCREW & L'WASHER ASS'Y — H.H.C., 1/4-20 x 3/8 (Reed Plate to Block)	3294-G	2
76	SCREW & L'WASHER ASS'Y — P.H.S.T., 10-24 x 1 (Magneto Plate to Bearing Plate)	5682-A	2
77	SCREW & L'WASHER ASS'Y — P.H.S.T., 8-32 x 3/8 (Air Cleaner Cover to Mounting Plate)	5457-A	1
78	SCREW & L'WASHER ASS'Y — F.H.M., 8-32 x 7/16 (Mounting Plate to Carburetor)	5673-A	2
79	SCREW & L'WASHER ASS'Y — R.H.M., 8-32 x 5/16 (Breaker Points to Bearing Plate)	5409-F	1
80	SCREW & L'WASHER ASS'Y — R.H.M., 10-24 x 1 (Fuel Tank Straps)	5421-A	2
81	SCREW & L'WASHER ASS'Y — R.H.S.T., 8-32 x 3/8 (Reed Assembly to Reed Plate)	5644-A	2
82	SCREW & L'WASHER ASS'Y — H.H.C., 8-32 x 1/2 (Brace to Block)	5443-A	3
83	SCREW & L'WASHER ASS'Y — H.H.C., 1/4-20 x 3/4 (Bearing Plate to Block)	5446-F	6
84	SEAL — Breaker Points Cover	5596	1
85	SEAL — Oil (Bearing Plate)	7254	1
86	SEAL — Oil (Power Take-Off)	4429	1
87	SPARK PLUG & GASKET ASSEMBLY	2168-A	1

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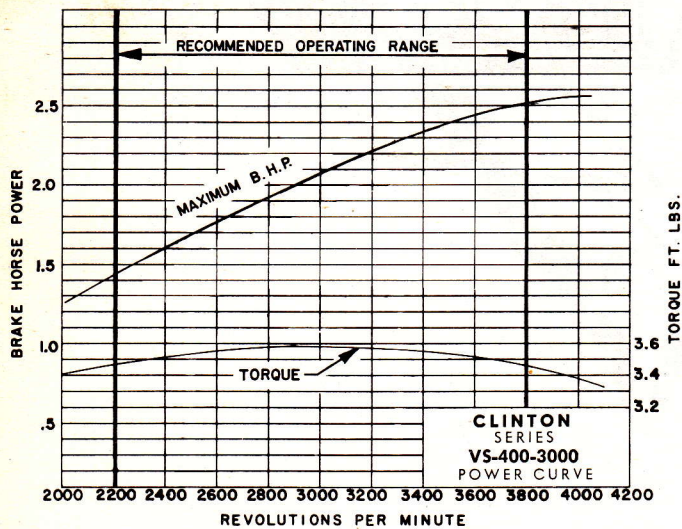
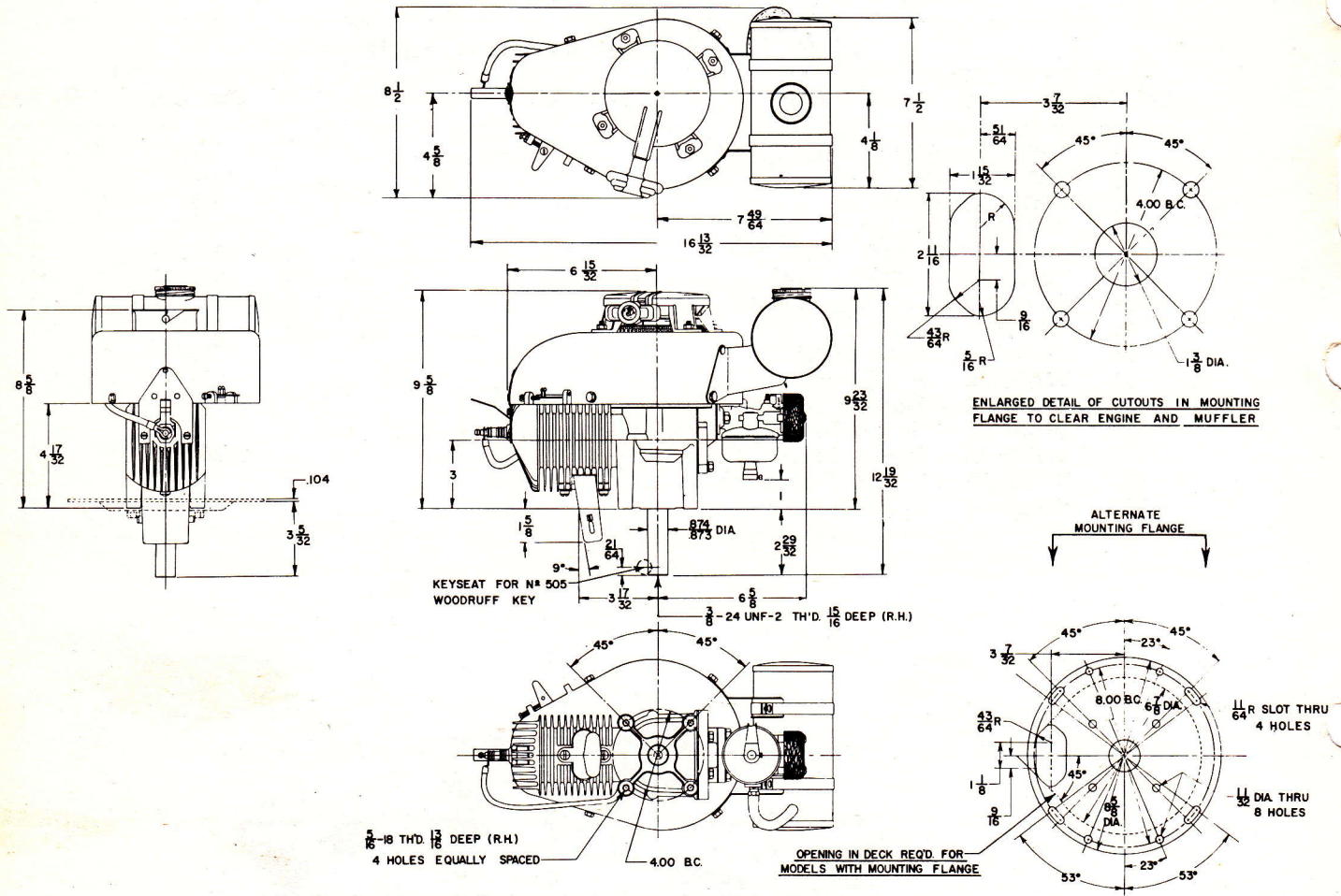
BASIC
TYPESEC. II, DIV. VS-400-3000
PARTS CATALOG
Issued October, 1957**BASIC PARTS LIST (Continued)**

Ref. No.	PART DESCRIPTION	Part No.	Quantity
88	SPRING — Air Governor	2448	1
89	SPRING — Compression (Air Vane)	10005	1
90	STOP — Reed Valve	2036	1
91	STRAP — Fuel Tank	2135	2
92	STUD — Carburetor Mounting	2063	2
93	TANK ASSEMBLY — Fuel (includes Ref. No. 9).....	7461-A	1
94	TERMINAL — Breaker Points.....	5713	1
95	VALVE — Reed.....	2035	1
96	VANE & LEVER ASSEMBLY — Air.....	2323	1
97	WASHER — Air Governor Link.....	2049	1
98	WASHER — Flat (Bracket to Housing).....	3279	2
99	WASHER — Spring Tension (Starter Pulley).....	4119	1
100	WASHER — Spring Tension (Throttle Control).....	2077	1
101	WASHER — Thrust (Crankshaft).....	2026	1
102	WASHER — Oil Seal Protector.....	4558	1



**DIMENSIONAL
SPECIFICATIONS
AND POWER DATA**

Clinton Machine Company will supply detailed prints and engineering counsel upon request. Specifications and Dimensions are subject to change without notice.



CLINTON 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 1/2% 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 3,400 R.P.M. (plus or minus 100 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.



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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S	E	R	I	E	S	
VS-400-3000						
P	A	N	T	H	E	R

MODEL VARIATIONS
SEC. II, DIV. VS-400-3000
PARTS CATALOG
 Revised January, 1959
 Supersedes March, 1958

MODEL VARIATIONS OF VS-400-3000 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).	CRANKSHAFT (Part Numbers Shown). Refer to Sec. IV, Div. B for details and further information.	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.	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.	MUFFLER OR MANIFOLD (Part Numbers Shown). Refer to Illustrated Basic Parts List for corresponding part.
VS-400-3100						Yes	2140-A	
VS-400-3101	Note 1							
VS-400-3102	Note 1							
VS-400-3103	Notes 1 & 2					Yes	2140-A	2350-D
VS-400-3104	Note 1					Yes	2140-A	
VS-400-3105						Yes	2140-A	
VS-400-3106	Notes 1 & 2					Yes	2140-A	2220-A
VS-400-3107	Notes 1 & 2							2220-A
VS-400-3108						Yes	2140-A	
VS-400-3120	Note 1							
VS-400-3121	Note 1					Yes	2140-A	
VS-400-3124	Notes 1 & 2			72"		Yes	2140-A	2350-D
VS-400-3125	Note 1					Yes	2140-A	
VS-400-3126	Note 1			72"		Yes	2140-A	
VS-400-3127	Notes 1 & 2	2375				Yes	2140-A	2350-D
VS-400-3128	Notes 2 & 3					Yes	2140-A	2350-D
VS-400-3129				72"		Yes	2140-A	
VS-400-3130				72"				
VS-400-3131						Yes	2140-A	
VS-400-3132	Notes 1 & 3					Yes	2140-A	2220-A
VS-400-3133	No Variation—Use Basic Parts List							
VS-400-3134						Yes	2140-A	
VS-400-3135	Note 3	2366				Yes	2140-A	
VS-400-3136	Note 1							
VS-400-3137	No Variation—Use Basic Parts List							
VS-400-3500	No Variation—Use Basic Parts List							

NOTE 1—Use #2431 Adaptor Flange and #3217-G Screw & L'Washer Assembly.

NOTE 2—Use #C-3410 Clamp and #5644 Screw.

NOTE 3—Use #7466 Switch Assembly and #5542-A Wire Assembly.