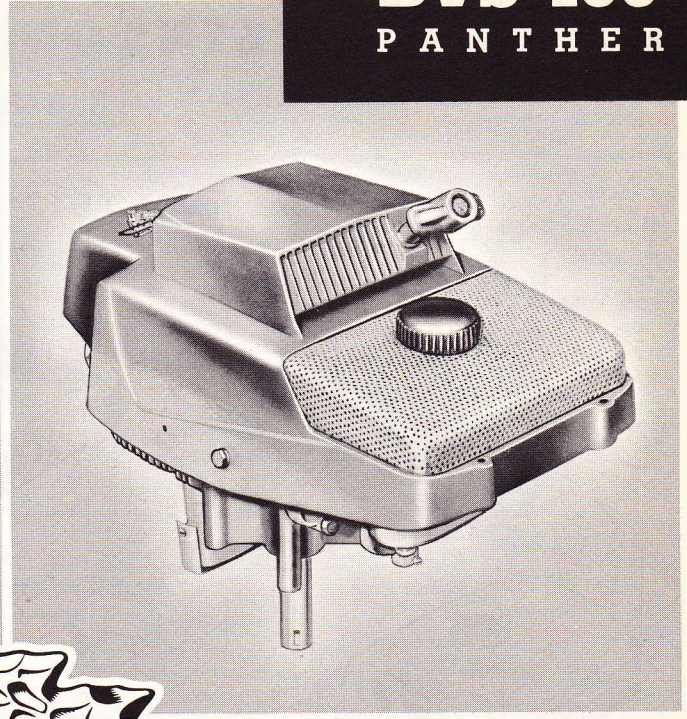
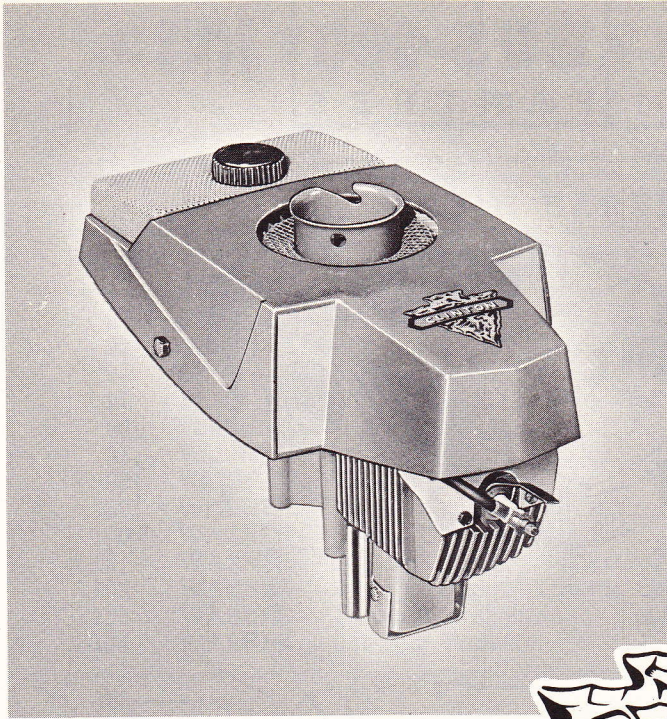
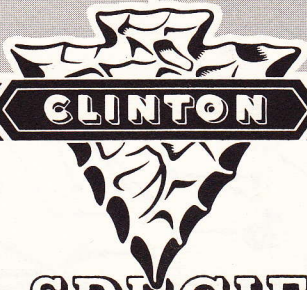


S E R I E S
BVS-400
 P A N T H E R



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



BVS-400

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

GENERAL SPECIFICATIONS

Model	Type	Description	Starter	Weight
BVS-400	Air-Cooled	Vertical Shaft	Rope or Recoil	15 $\frac{3}{4}$ lb.

BORE: 2 $\frac{1}{8}$ "

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

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, with bronze insert crank pin and wrist pin.

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 (viewed from power take-off side): Counterclockwise.

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: Touch N' Go controls, remote throttle cable and controls, recoil starter, shorting terminal for remote stop hookup, 8-inch circle mounting adapter plate, electric starter, deluxe muffler, special paint finishes, resistor spark plug, special crankshaft extensions. (Quotation available on request.)

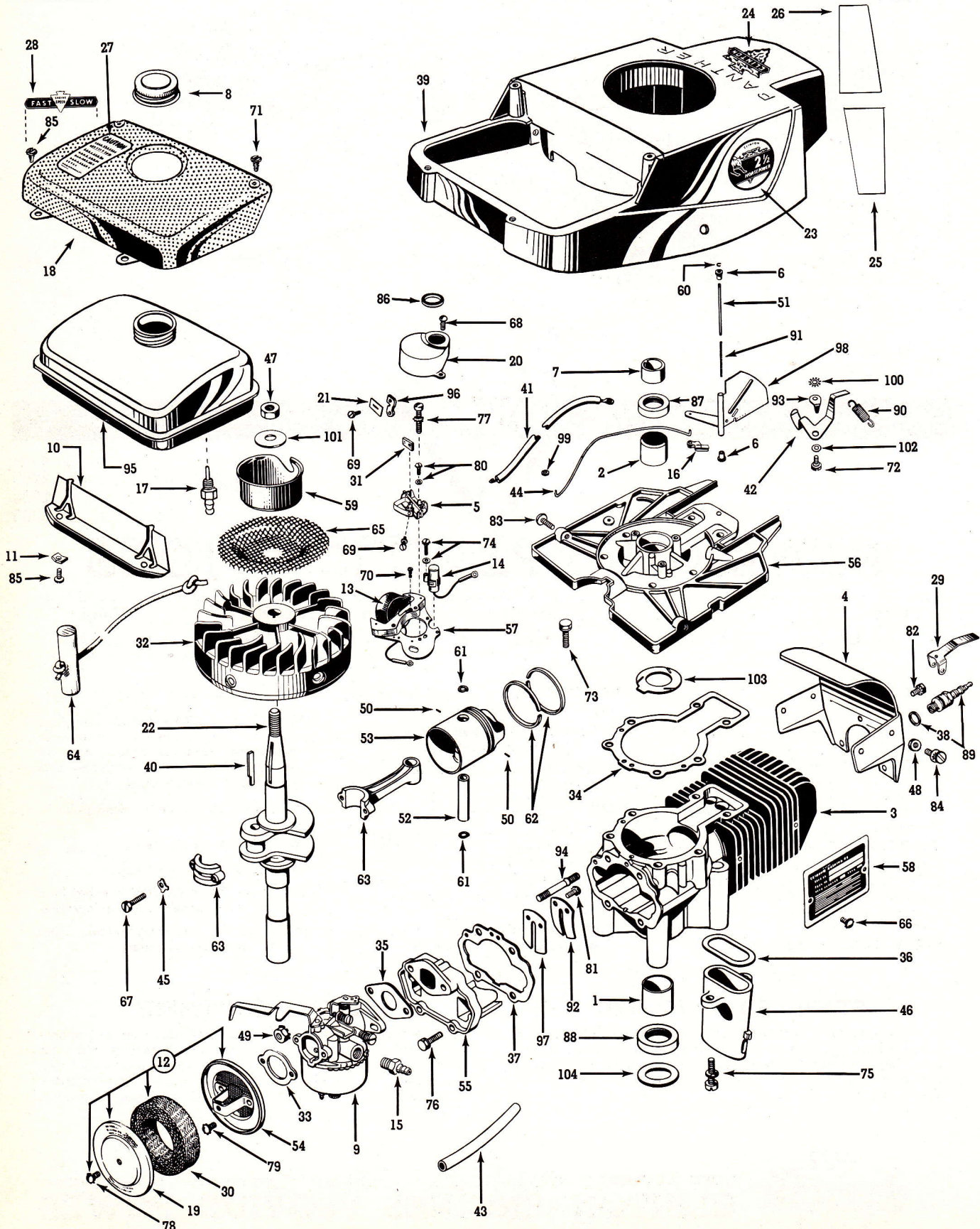


WORLD'S LARGEST MANUFACTURER OF A COMPLETE LINE OF AIR-COOLED GASOLINE ENGINES

CLINTON ENGINES PROVIDE POWER

FOR FARM • HOME • INDUSTRIAL EQUIPMENT

PRINTED IN U.S.A.



CLINTON

S E R I E S
BVS-400
P A N T H E R

BASIC
TYPES

SEC. II, DIV. BVS-400
PARTS CATALOG
Issued November, 1957

There is one Basic Type of the BVS-400 Series 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, 88).....	2472	1
4	BRACKET — Housing Support.....	2355	1
5	BREAKER POINTS ASSEMBLY — (includes Ref. Nos. 69, 80).....	P5543	1
6	BUSHING — Air Vane.....	7239	2
7	CAM — Breaker Points.....	5594	1
8	CAP & GASKET ASSEMBLY — Fuel.....	4517-A	1
9	CARBURETOR ASSEMBLY — Clinton.....	14029	1
10	CLAMP — Fuel Tank (Outer).....	2365	1
11	CLAMP — Fuel Tank (Inner).....	2364	1
12	CLEANER ASSEMBLY — Air (includes Ref. Nos. 19, 30, 54, 78).....	2000-A	1
13	COIL — Magneto (Without Laminations).....	P5593-A	1
14	CONDENSER — Magneto.....	P5589-A	1
15	CONNECTOR — Fuel Line (Flexible).....	5053	1
16	CONNECTOR — Governor Link to Air Vane.....	2226	1
17	CONNECTOR — Fuel Line.....	5055	1
18	COVER — Fuel Tank.....	2368	1
19	COVER — Air Cleaner.....	2003	1
20	COVER — Breaker Points (with gasket).....	P5595-A	1
21	COVER — Breaker Points Terminal (Fish Paper).....	5714	1
22	CRANKSHAFT.....	2370	1
23	DECAL — Horsepower.....	3456	1
24	DECAL — Arrowhead.....	3579	1
25	DECAL — Panel Trim (Left Hand).....	4569	1
26	DECAL — Panel Trim (Right Hand).....	4570	1
27	DECAL — Instructions, Fuel Mixture.....	2098	1
28	DECAL — Engine Speed.....	3460	1
29	DEVICE — Ignition Shorting Clip.....	3499	1
30	ELEMENT — Air Cleaner.....	2132	1
31	FELT — Lubrication, Cam Follower.....	P5504	1
32	FLYWHEEL ASSEMBLY.....	5711-A	1
33	GASKET — Air Cleaner.....	2075	1
34	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.		
35	GASKET — Carburetor to Reed Plate.....	2096	1
36	GASKET — Muffler to Block.....	2069	1
37	GASKET — Reed Plate to Block.....	2344	1
38	GASKET — Spark Plug.....	3115	1
	GASKET KIT — Engine Overhaul.....	2203	1
	NOTE: Kit contains all necessary Gaskets and Oil Seals.		
39	HOUSING — Blower.....	2359	1
40	KEY — Flywheel.....	10339	1
41	LEAD — Hi-Tension, Magneto.....	P2055	1
42	LEVER — Throttle Control.....	2354	1
43	LINE — Fuel (Flexible).....	6316	1
44	LINK — Air Governor.....	2335	1
45	LOCK — Connecting Rod Cap.....	2027	2
46	MUFFLER.....	2082-A	1
47	NUT — Hex., 7/16-20 (Starter Pulley).....	3250	1
48	NUT — Plug.....	5474	4
49	NUT & L'WASHER ASSEMBLY — Hexagon, 1/4-28 (Carburetor to Reed Plate).....	3255-A	2
50	PIN — Drive (Ring Retainer).....	2099	2

CLINTON

S E R I E S
BVS-400
P A N T H E R

**BASIC
TYPES**

BASIC PARTS LIST (Continued)

Ref. No.	PART DESCRIPTION	Part No.	Quantity
51	PIN — Pivot, Air Vane	7238	1
52	PIN — Wrist	2428	1
53	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. 50, 52, 53, 61, 62.		
54	PLATE — Air Cleaner Mounting	2001-B	1
55	PLATE — Reed Valve Assembly	2033-A	1
56	PLATE — Bearing	2317-A	1
	NOTE: Bearing Plate includes Ref. Nos. 2, 87.		
57	PLATE ASSEMBLY — Magneto with Coil and Lamination	P5590-B	1
58	PLATE — Name	2363	1
59	PULLEY — Starter	3299	1
60	RETAINER — Air Vane	4430	1
61	RETAINER — Wrist Pin	3030	1
62	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.		
63	ROD ASSEMBLY — Connecting (includes Ref. Nos. 45, 67)	2422-A	1
64	ROPE ASSEMBLY — Starting	4266	1
65	SCREEN — Revolving	7187	1
66	SCREW — 8-32 x 3/8 (Name Plate to Block)	5644	4
67	SCREW — H.H. Slotted, 10-24 x 3/4 (Connecting Rod Cap)	5429	2
68	SCREW — O.H.S.T., 6-32 x 3/8 (Breaker Cover to Bearing Plate)	5405	2
69	SCREW — R.H.S.T., 6-32 x 1/2 (Breaker Points Terminal)	5664	2
70	SCREW — P.H.S.T., 4-40 x 1/4 (Coil to Laminations)	5641	1
71	SCREW — #10 x 3/8 (Drive)	5804	2
72	SCREW — Spec. #10-32 x 1/4 (Shoulder)	4440	1
73	SCREW — H.H.C., 1/4-20 x 3/4 (Bearing Plate to Block)	5446	6
74	SCREW & L'WASHER ASS'Y — F.H.M., 8-32 x 5/8 (Condenser to Bearing Plate)	5674-F	1
75	SCREW & L'WASHER ASS'Y — F.H.M., 1/4-20 x 3/4 (Muffler to Block)	5679-G	2
76	SCREW & L'WASHER ASS'Y — H.H.C., 1/4-20 x 7/8 (Reed Plate to Block)	3294-G	2
77	SCREW & L'WASHER ASS'Y — P.H.S.T., 10-24 x 1 (Magneto Plate to Bearing Plate)	5682-A	2
78	SCREW & L'WASHER ASS'Y — P.H.S.T., 8-32 x 3/8 (Air Cleaner Cover to Mounting Plate)	5457-A	1
79	SCREW & L'WASHER ASS'Y — F.H.M., 8-32 x 7/16 (Mounting Plate to Carburetor)	5673-A	2
80	SCREW & L'WASHER ASS'Y — R.H.M., 8-32 x 5/16 (Breaker Points to Bearing Plate)	5409-F	1
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 1/4 (Bracket to Head)	5443-A	3
83	SCREW & L'WASHER ASS'Y — #10-24 x 3/8 (Housing to Bearing Plate)	5696-B	2
84	SCREW & L'WASHER ASS'Y — #10-24 x 5/16 (Housing to Bracket)	5697-B	4
85	SCREW & L'WASHER ASS'Y — R.H.S.T., #10-24 x 1/2 (4 Clamp to Housing; 2 Fuel Tank)	5803-B	6
86	SEAL — Breaker Points Cover	5596	1
87	SEAL — Oil (Bearing Plate)	7254	1
88	SEAL — Oil (Power Take-Off)	4429	1
89	SPARK PLUG & GASKET ASSEMBLY — (includes Ref. No. 38)	2168-A	1
90	SPRING — Air Governor	2449	1
91	SPRING — Compression (Air Vane)	10005	1

CLINTON

S E R I E S
BVS-400
P A N T H E R

BASIC
TYPES

SEC. II, DIV. BVS-400
PARTS CATALOG
Issued November, 1957

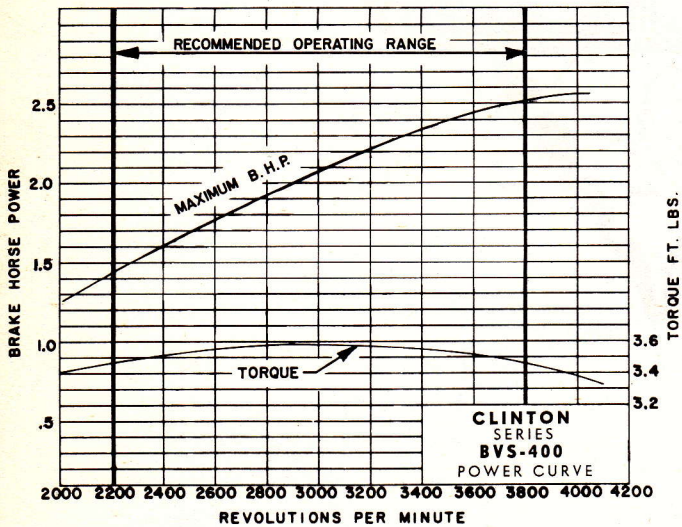
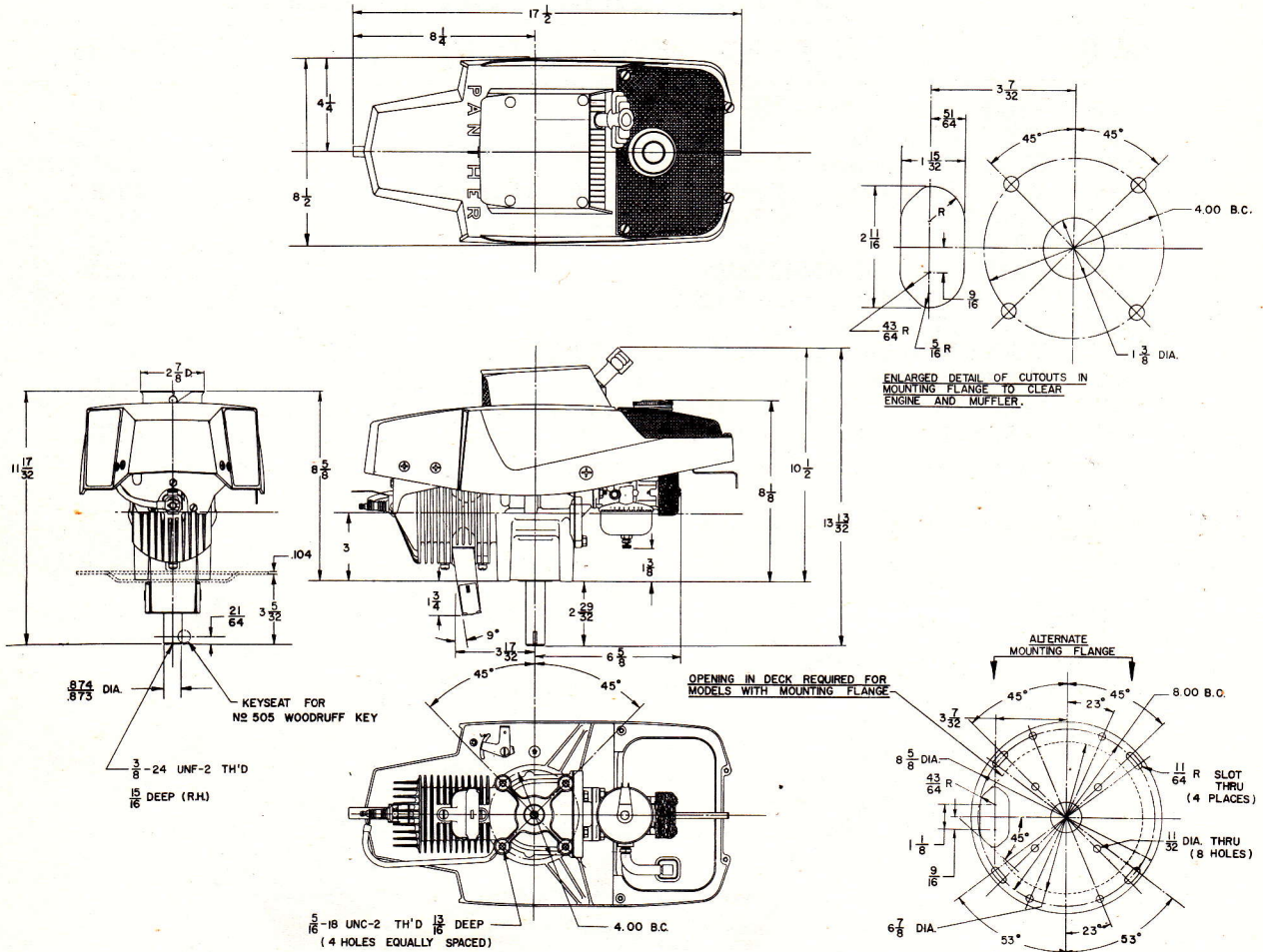
BASIC PARTS LIST (Continued)

Ref. No.	PART DESCRIPTION	Part No.	Quantity
92	STOP — Reed Valve	2036	1
93	STOP — Throttle Lever	4448	1
94	STUD — Carburetor Mounting	2063	2
95	TANK ASSEMBLY — Fuel (includes Ref. No. 8)	2366-A	1
96	TERMINAL — Breaker Points	5713	1
97	VALVE — Reed	2035	1
98	VANE & LEVER ASSEMBLY	2323	1
99	WASHER — Air Governor Link	2049	1
100	WASHER — Lock	5488	1
101	WASHER — Spring Tension (Starter Pulley)	4119	1
102	WASHER — Spring Tension (Throttle Control)	5908	1
103	WASHER — Thrust (Crankshaft)	2026	1
104	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

CLINTON

S E R I E S
BVS-400
P A N T H E R

**MODEL
VARIATIONS**

SEC. II, DIV. BVS-400
PARTS CATALOG
Revised March, 1958
Supersedes Nov., 1957

MODEL VARIATIONS OF BVS-400 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.
BVS-400-100	Notes 1 & 2					Yes	2361	
BVS-400-101	Notes 1 & 2					Yes	2461	2220-A
BVS-400-102	No Variation—Use Basic Parts List							
BVS-400-103	Notes 1 & 2					Yes	2361	
BVS-400-104	Note 1					Yes	2361	
BVS-400-110						Yes	2361	
BVS-400-125	Note 3	2379				Yes	2361	
BVS-400-126	Note 2					Yes	2361	
BVS-400-127	Notes 1 & 2					Yes	2661	2220-A

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

NOTE 2—Use #14267 Carburetor, #5717-A Wire Assembly, #14283 Knob, #14290 Grommet, #14280 Clip, Ignition Shorting, #5647 Screw and #2452 Panel, Engine Control.

NOTE 3—Use #5051 Fuel Shut-Off in lieu of #5055.