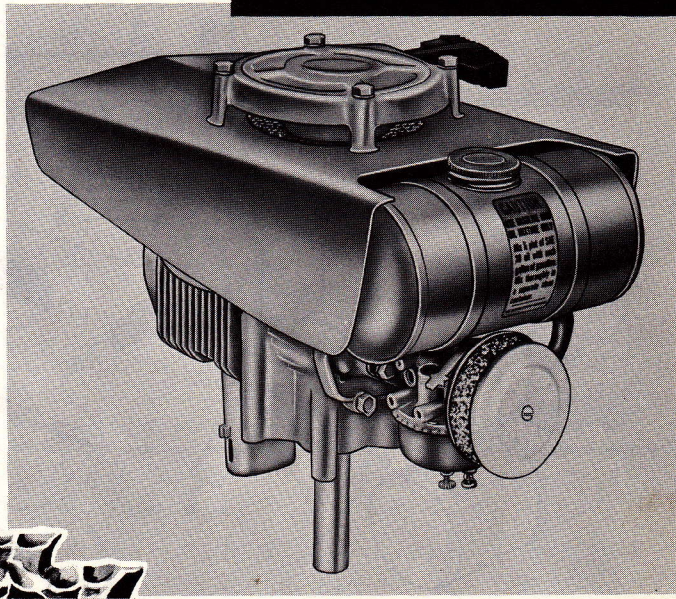
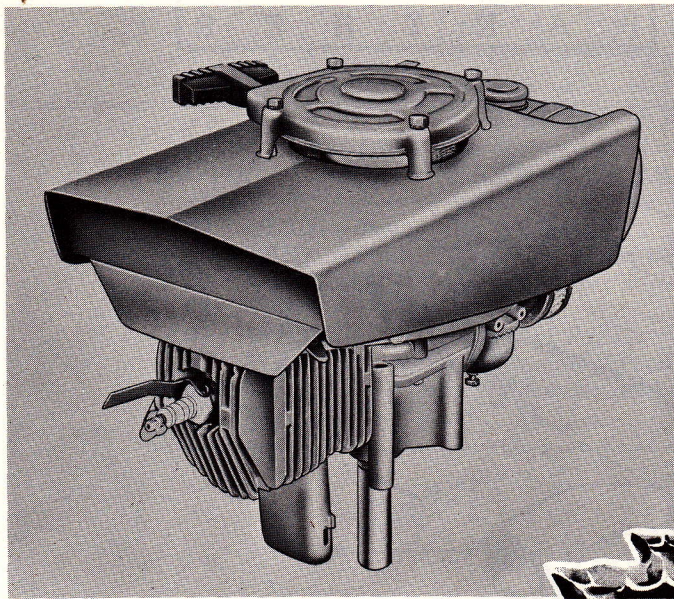
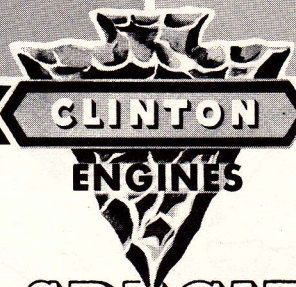


S E R I E S  
**CVS-400-1000**  
 P A N T H E R



A Wide Range of Models are Made By



For Farm, Home and Industrial Use.

CVS-400-1000

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

## GENERAL SPECIFICATIONS

Model	Type	Description	Starter	Weight
CVS-400-1000	Air-Cooled	Vertical Shaft	Rope	16 lbs.
CVS-400-1000	Air-Cooled	Vertical Shaft	Recoil	17½ lbs.

**BORE:** 2½"

**STROKE:** 1⅝"

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

**AIR COOLING:** 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. Positive safety ON-OFF device on spark plug.

**SPARK PLUG:** 14 mm.

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

**CARBURETOR:** Full float feed with high speed adjustment.

**GOVERNOR:** Adjustable, pneumatic type.

**MAIN BEARINGS:** Bronze.

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

**CONNECTING ROD:** I-beam aluminum alloy with bronze crank pin and wrist pin bearings.

**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 dry type.

**FUEL TANK:** One-quart capacity.

**DIRECTION OF ROTATION** (viewed from power take-off side): Counterclockwise.

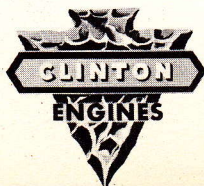
**FINISH:** Red heat-resisting enamel. Other colors upon special order.

### STANDARD EQUIPMENT

Standard equipment includes: Cast iron cylinder liner, replaceable bearings, air cleaner, specially designed dust and moisture-proof high tension flywheel magneto, fuel tank, splash-proof gas tank cap, muffler, blower housing screen, rope starter, safety stop device, remote throttle cable mounting.

### SPECIAL EQUIPMENT

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



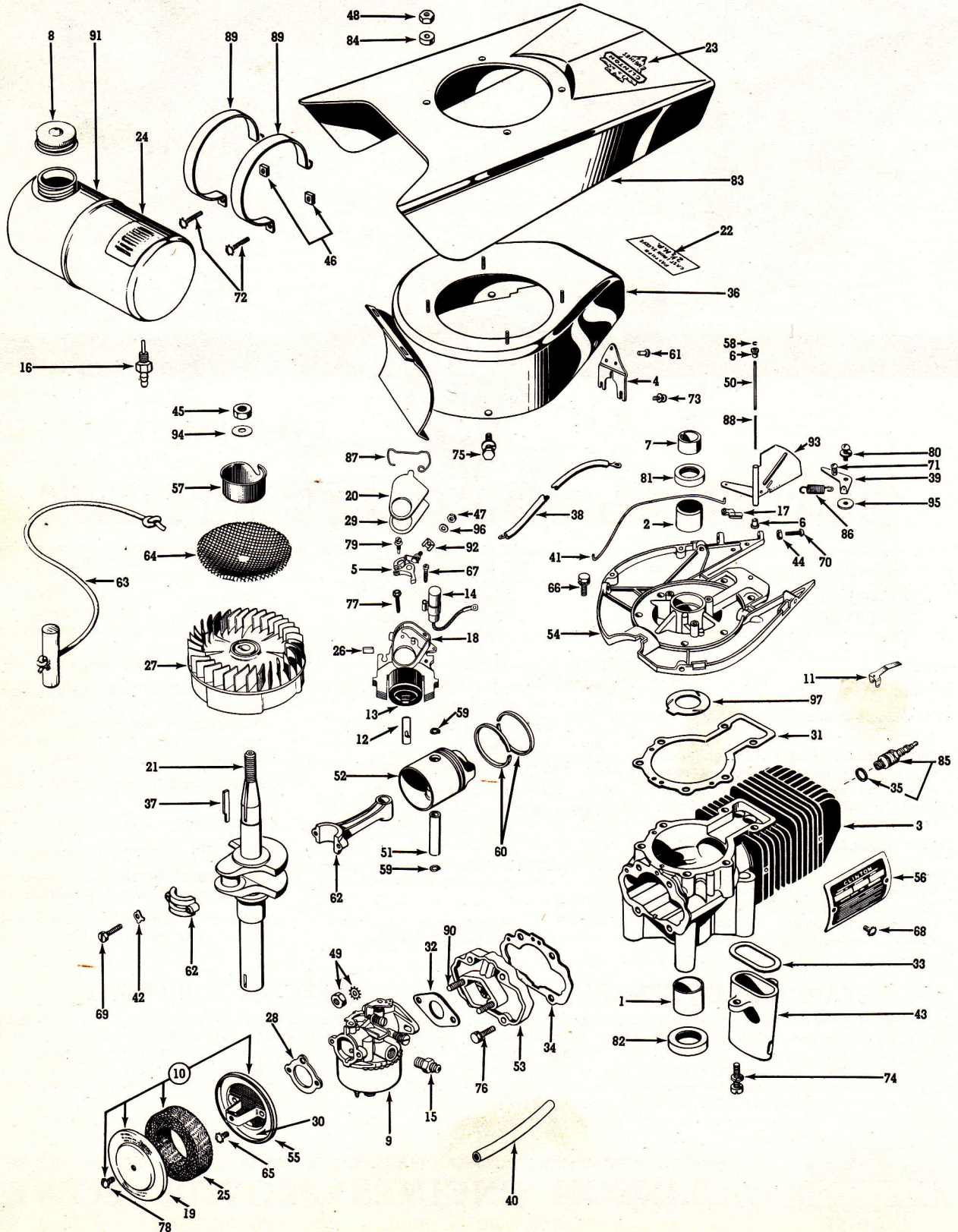
WORLD'S LARGEST MANUFACTURER OF A COMPLETE LINE OF AIR-COOLED GASOLINE ENGINES

## CLINTON ENGINES PROVIDE POWER

FOR FARM • HOME • INDUSTRIAL EQUIPMENT

PRINTED IN U.S.A.







**CLINTON**

S	E	R	I	E	S	
<b>CVS-400-1000</b>						
P	A	N	T	H	E	R

**BASIC  
TYPE**

SEC. II, DIV. CVS-400-1000  
PARTS CATALOG  
Revised December, 1959  
Supersedes December, 1958

There is one Basic Type of the CVS-400-1000 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.	Quan.
1	BEARING — Main Sleeve (Block Assembly, Cylinder)-----	9016	1
2	BEARING — Sleeve (Bearing Plate) -----	2059	1
3	BLOCK ASSEMBLY — Cylinder (Includes Ref. Nos. 1 & 82)---	2484-A	1
4	BRACE — Blower Housing -----	2127	1
5	BREAKER POINTS ASSEMBLY — Includes Ref. Nos. 47, 79 and 96) -----	P5735	1
6	BUSHING — Air Vane -----	7239	2
7	CAM — Breaker Points -----	5751	1
8	CAP & GASKET ASSEMBLY — Fuel -----	4517-A	1
9	CARBURETOR ASSEMBLY — Clinton -----	14069	1
10	CLEANER ASSEMBLY — Air (Includes Ref. Nos. 19, 25, 30, 55, 65 and 78) -----	2000-A	1
11	CLIP — Ignition Shorting -----	3499	1
12	CLIP — Coil Holding -----	P5735	1
13	COIL — Magneto (Without Laminations) -----	P5733	1
14	CONDENSER — Magneto -----	P5589-A	1
15	CONNECTOR — Fuel Line to Carburetor -----	5053	1
16	CONNECTOR — Fuel Tank (Flexible Fuel Line) -----	5055	1
17	CONNECTOR — Governor Link to Air Vane -----	2226	1
18	CORE & BREAKER BOX ASSEMBLY — Includes Ref. No. 12---	P5732	1
19	COVER — Air Cleaner -----	2003	1
20	COVER — Breaker Points -----	P5743	1
21	CRANKSHAFT -----	2370-1	1
22	DECAL — Horsepower -----	90573	2
23	DECAL — Arrowhead -----	90559	1
24	DECAL — Instruction, Fuel Mixture -----	2098	1
25	ELEMENT — Air Cleaner -----	2132	1
26	FELT — Lubrication, Cam Follower -----	P5742	1
27	FLYWHEEL ASSEMBLY -----	5753-A	1
28	GASKET — Air Cleaner to Carburetor -----	31445	1
29	GASKET — Breaker Points Cover -----	P5744	1
30	GASKET — Air Cleaner to Mounting Plate -----	21056	1
31	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.		
32	GASKET — Carburetor to Reed Plate -----	2096	1
33	GASKET — Muffler to Block -----	2069	1
34	GASKET — Reed Plate to Block -----	2344	1
35	GASKET — Spark Plug -----	3115	1
	GASKET KIT -----	91558	1
36	HOUSING ASSEMBLY — Blower -----	90587-A	1
37	KEY — Flywheel -----	10339	1
38	LEAD — High Tension Magneto -----	P2055	1
39	LEVER AND SCREW ASSEMBLY — Throttle Control -----	2043-A	1
40	LINE — Fuel (Flexible) -----	6316	1
41	LINK — Air Governor -----	90569	1
42	LOCK — Connecting Rod Cap -----	2027	2
	MAGNETO ASSEMBLY — Includes Ref. Nos. 5, 12, 13, 14, 18, 20, 26, 29, 47, 67, 77, 79, 87, 92 and 96 -----	P5731	1
43	MUFFLER -----	2082	1
44	NUT — Hexagon, #8-32 (Speed Control Adjusting)-----	5522	1
45	NUT — Starter Pulley -----	5942	1
46	NUT — Fuel Tank Straps -----	3253	2
47	NUT — Terminal Condenser Lead -----	5740	1
48	NUT — #10-32 Stamped (Shroud to Blower Housing)-----	5886	4



**CLINTON**



**BASIC  
 TYPE**

**BASIC PARTS LIST (Continued)**

Ref. No.	PART DESCRIPTION	Part No.	Quan.
49	NUT & L'WASHER ASS'Y — Carburetor to Reed Plate	3255	2
50	PIN — Pivot, Air Vane	7238	1
51	PIN — Wrist	2428	1
52	PISTON — Standard	90364	1
	PISTON ASSEMBLY — Standard	90364-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. 51, 52, 59 & 60.		
53	PLATE — Reed Valve Assembly (Includes Reed Valves and Stops)	90467-A	1
54	PLATE — Bearing	2312-A	1
55	PLATE — Air Cleaner Mounting	21055-A	1
56	PLATE — Name	2363	1
57	PULLEY — Starting	12397	1
58	RETAINER — Air Vane	4430	1
59	RETAINER — Wrist Pin	3030	2
60	RING — Piston, Standard	2408	2
	RING SET — Piston, Standard	2486	1
	NOTE: Rings are also available in the following oversizes: .005, .010 and .020. Order by Part Number and specify oversize.		
61	RIVET — Tubular, Brace to Housing	5460	3
62	ROD ASSEMBLY — Connecting	2422-A	1
63	ROPE — Starter	4266	1
64	SCREEN — Starter Pulley	90092	1
65	SCREW — H.H.C., #8-32 x 7/16 (Air Cleaner Mounting)	5812	2
66	SCREW — H.H.C., 1/4-20 x 3/4 (Bearing Plate to Block)	5446	6
67	SCREW — R.H.M., #8-32 x 3/8 (Condenser to Plate)	5741	1
68	SCREW — H.H.S.T., #8-32 x 3/8 (Nameplate to Block)	5644	2
69	SCREW — H.H. Slotted, #10-24 x 3/4 (Connecting Rod Cap)	5429	2
70	SCREW — R.H.M., #8-32 x 7/8 (Speed Control Adjusting)	3240	1
71	SCREW — H.H.M., #8-32 x 1/4 (Throttle Lever)	5681	1
72	SCREW & L'WASHER ASS'Y — R.H.M., #10-24 x 1 (Fuel Tank Straps)	5421-A	2
73	SCREW & L'WASHER ASS'Y — R.H.S.T., #8-32 x 1/2 (Blower Housing to Head)	5443-A	3
74	SCREW & L'WASHER ASS'Y — F.H.M., 1/4-20 x 7/8 (Muffler to Block)	5679-G	2
75	SCREW & L'WASHER ASS'Y — H.H.C., 1/4-20 x 5/8 (Blower Housing to Bearing Plate)	3205-G	4
76	SCREW & L'WASHER ASS'Y — H.H.C., 1/4-20 x 7/8 (Reed Plate to Block)	3294-G	4
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 — B.H.M., #8-32 x 3/8 (Air Cleaner Cover to Mounting Plate)	5457-A	1
79	SCREW & L'WASHER ASS'Y — R.H.M., #8-32 x 3/8 (Breaker Points to Bearing Plate)	5737	1
80	SCREW & L'WASHER ASS'Y — H.H.C., #8-32 x 1/2 (Speed Control Lever)	5443-D	1
81	SEAL — Oil (Bearing Plate)	7254	1
82	SEAL — Oil (Power Take-Off)	4429	1
83	SHROUD — Engine	90440-A	1
84	SPACER — Engine Shroud	5887	4
85	SPARK PLUG AND GASKET ASSEMBLY	K90617-A	1
86	SPRING — Air Governor	2448	1
87	SPRING — Breaker Points Cover	P5745	1
88	SPRING — Compression (Air Vane)	10005	1
89	STRAP — Fuel Tank	90455	2



**CLINTON**

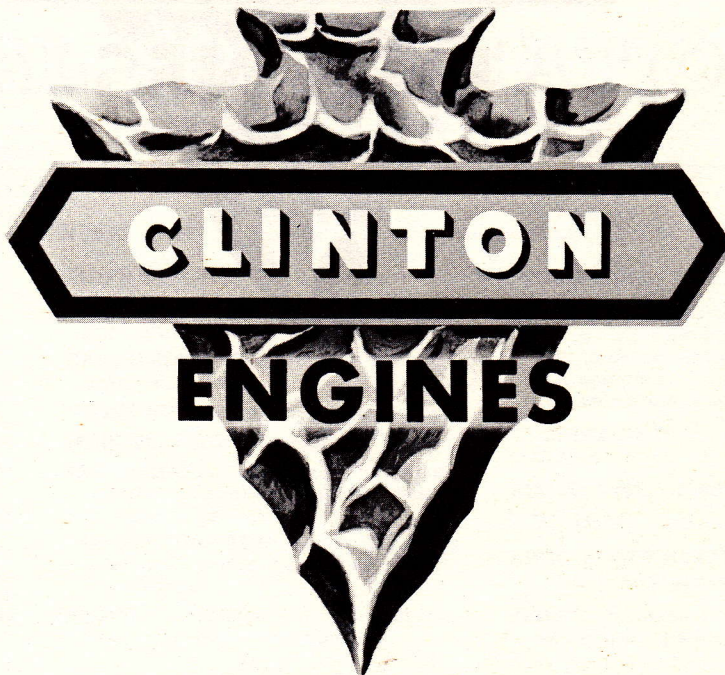
**S E R I E S**  
**CVS-400-1000**  
**P A N T H E R**

**BASIC  
TYPE**

SEC. II, DIV. CVS-400-1000  
PARTS CATALOG  
Revised December, 1959  
Supersedes December, 1958

**BASIC PARTS LIST (Continued)**

Ref. No.	PART DESCRIPTION	Part No.	Quan.
90	STUD — Carburetor Mounting -----	90422	2
91	TANK ASSEMBLY — Fuel (Includes Ref. No. 8) -----	7461-A	1
92	TERMINAL — Jamtite (Breaker Points) -----	P5738	1
93	VANE — Air Governor -----	2323	1
94	WASHER — ½-20, Starter Pulley -----	5941	1
95	WASHER — Spring Tension (Throttle Control) -----	2077	1
96	WASHER — Terminal Condenser Lead -----	5739	1
97	WASHER — Thrust -----	2026	1





# CLINTON

# S E R I E S CVS-400-1000 P A N T H E R

## MODEL VARIATIONS

SEC. II, DIV. CVS-400-1000  
PARTS CATALOG  
Revised June, 1959  
Supersedes January, 1959

### MODEL VARIATIONS OF CVS-400-1000 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 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.

CVS-400-1000	NO VARIATION—USE BASIC PARTS LIST			
CVS-400-1100	Note 1			
CVS-400-1102	Note 1			P90996
CVS-400-1103				P90996
CVS-400-1104	Note 1			P90996
CVS-400-1105	Note 2	2380-1		P90996
CVS-400-1106				P90996
CVS-400-1107	Note 3		72" 2314-A	P90996
CVS-400-1108	Note 1			P90996
CVS-400-1110				P90996
CVS-400-1111	Note 4		72" 2324-D	P90996

NOTE 1—Use 2431 Flange, and 3217-G Screw & L'Washers (4).

NOTE 2—Use 90440-B Shroud Assembly and 5051 Fuel Shut-Off.

NOTE 3—Use 12409-A Wire Assembly (Shorting), 5522 Nut, 5644 Screw and 5566 Grommet.

NOTE 4—Use 7466 Switch, 31484-A Wire Assembly, 5522 Nut, 5659 Stud (Muffler), 5498 Washer, 3255-A Nut & L'Washer Assembly, 3410 Clamp, 5644 Screw, 5051 Valve (Fuel Shut-Off), 5052 Connector.