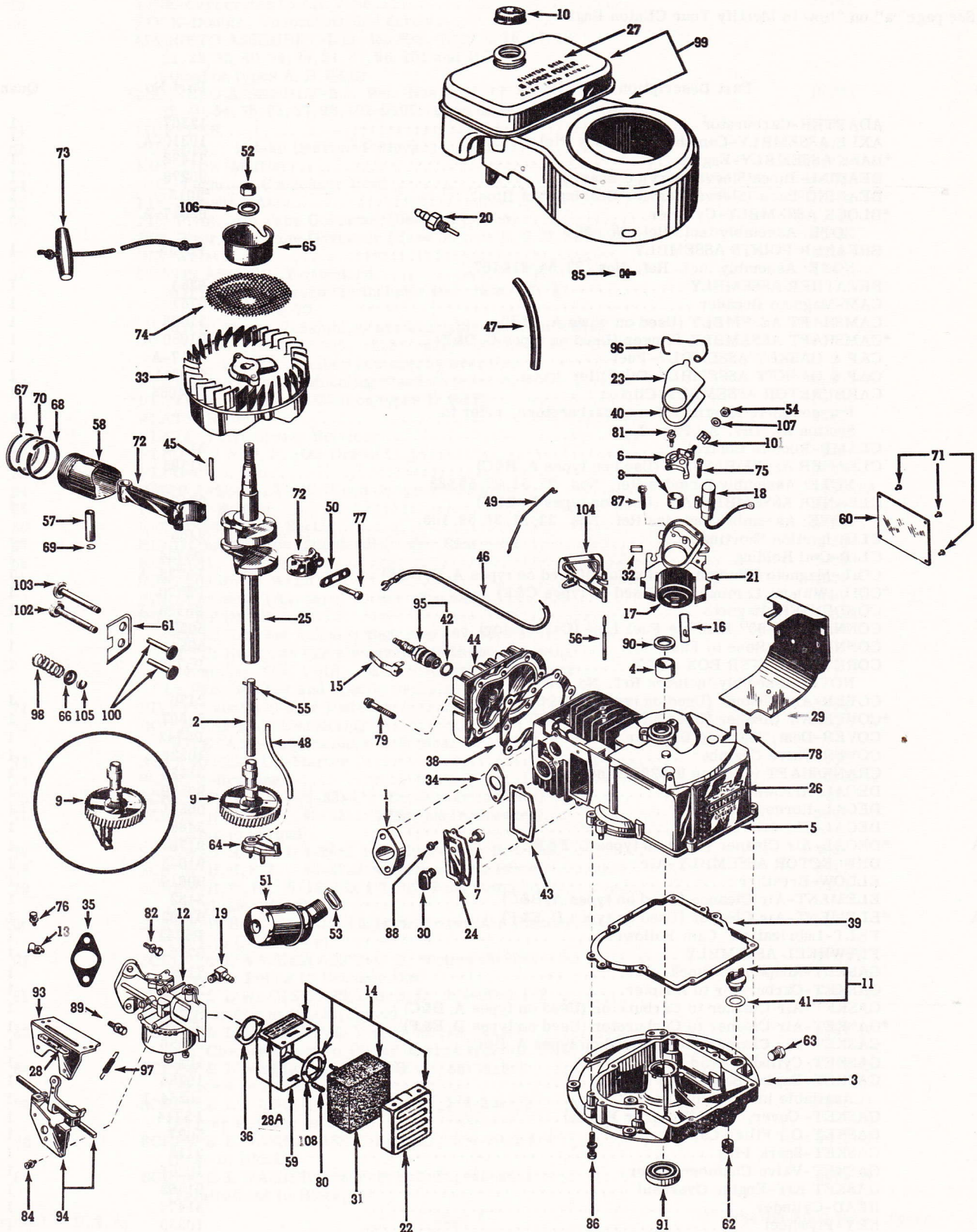


CLINTON

S E R I E S  
**VS-4100-2000**  
G E M

BASIC  
TYPE

SEC. II, DIV. VS-4100-2000  
PARTS CATALOG  
Revised March, 1961  
Supersedes Dec., 1959



**CLINTON ENGINES CORPORATION**

MAQUOKETA, IOWA

PRINTED IN U.S.A.

There are six Basic Types of the VS4100-2000 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; and Serial Number Suffix "B" referred to as Type B, etc.

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

Ref. No.	Part Description	Part No.	Quan.
1	ADAPTER-Carburetor .....	12367	1
2	AXLE ASSEMBLY-Camshaft (Includes Pin) .....	1031C-A	1
3	*BASE ASSEMBLY-Engine .....	31488	1
4	BEARING-Block(Sleeve) Service Bearing .....	90278	1
	BEARING-Base (Sleeve) Service Bearing-Not Illus.....	9016	1
5	*BLOCK ASSEMBLY-Cylinder .....	92017-A	1
	NOTE: Assembly incl. Ref. No. 90		
6	BREAKER POINTS ASSEMBLY .....	P5735	1
	NOTE: Assembly incl. Ref. Nos. 32, 54, 81&107.		
7	BREATHER ASSEMBLY .....	6354	1
8	CAM-Magneto Breaker .....	5751	1
9	CAMSHAFT ASSEMBLY (Used on types A, B&E) .....	31008	1
	*CAMSHAFT ASSEMBLY-Slinger (Used on types C, D&F) .....	91950-A	1
10	CAP & GASKET ASSEMBLY-Fuel .....	4517-A	1
11	CAP & GASKET ASSEMBLY-Oil Filler .....	5095-1	1
12	CARBURETOR ASSEMBLY-Clinton .....	P14055	1
	For complete identification of carburetors, refer to Section III, Div. A, Page 2.		
13	CLAMP-Remote Control .....	31463	1
14	CLEANER ASSEMBLY-Air (Used on types A, B&C) .....	91195	1
	NOTE: Assembly includes Ref. Nos. 22, 31, 37, 59&83		
	CLEANER ASSEMBLY-Air (Used on types D, E&F) .....	92101	1
	NOTE: Assembly includes Ref. Nos. 22, 31, 36, 59, 108.		
15	CLIP-Ignition Shorting .....	3499	1
16	CLIP-Coil Holding .....	P5734	1
17	COIL-Magneto (Without Laminations)(Used on types A, B, D&E) ..	P5733-A	1
	*COIL (Without Laminations)(Used on types C&F) .....	P5770	1
18	CONDENSER-Magneto .....	P5589-A	1
19	CONNECTOR-90° Flexible Fuel Line (Carburetor) .....	5052	1
20	CONNECTOR-Hose to Fuel Tank .....	5054	1
21	CORE & BREAKER BOX ASS'Y .....	P5732	1
	NOTE: Assembly includes Ref. No. 16		
22	COVER-Air Cleaner (Used on types A, B&C) .....	2130	1
	*COVER-Air Cleaner (Used on types D, E&F) .....	91807	1
23	COVER-Dust, Magneto Breaker Points .....	P5743	1
24	COVER-Valve Chamber .....	10323	1
25	CRANKSHAFT (Can use 91926 Crankshaft) .....	31128	1
26	DECAL-Arrowhead .....	90559	1
27	DECAL-Horsepower .....	90511	1
28	DECAL-Throttle Control .....	3488	1
28-A	*DECAL-Air Cleaner (Used on types D, E&F) .....	91767	1
29	DEFLECTOR ASSEMBLY-Air .....	91043	1
30	ELBOW-Breather .....	90610	1
31	ELEMENT-Air Cleaner (Used on types A, B&C) .....	2132	1
31-A	*ELEMENT-Air Cleaner (Used on types D, E&F) .....	91792	1
32	FELT-Lubrication, Cam Follower .....	P5742	1
33	FLYWHEEL ASSEMBLY .....	5753-A	1
34	GASKET-Adapter to Block .....	7149	1
35	GASKET-Carburetor to Adapter .....	31461	1
36	GASKET-Air Cleaner to Carburetor (Used on types A, B&C) ...	31445	1
	*GASKET-Air Cleaner to Carburetor (Used on types D, E&F) ...	92098	1
37	GASKET-Air Cleaner Cover (Used on types A, B&C) .....	21056	1
38	GASKET-Cylinder Head .....	10253	1
39	GASKET-Engine Base (.015 thick) .....	10254	1
	Available in .010 thickness .....	10254-1	1
40	GASKET- Cover, Dust (Breaker Points) .....	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	HEAD-Cylinder .....	31477	1
45	KEY-Flywheel .....	10339	1

46	LEAD-Hi-Tension, Magneto (Used on types A, B, D&E).....	P5555	1
	LEAD-Hi-Tension, Magneto (Used on types C&F).....	P90761	1
47	LINE-Flexible, Fuel .....	6316	1
48	LINE-Oil Distributor (Used on types A, B&E).....	10390	1
49	LINK-Carburetor to Air Vane .....	31491	1
50	LOCK-Double, Connecting Rod Screw .....	31018	1
	MAGNETO ASSEMBLY-Includes Ref. Nos. 6, 16, 17, 18, 21, 23, 32, 40, 54, 75, 81, 87, 96, 101 and 107. (Used on types A, B, D&E)		
	*MAGNETO ASSEMBLY-Inc. Ref. Nos. 6, 16, 17, 18, 21, 23, 32, 40, 54, 75, 81, 87, 96, 101 & 107. (Used on types A, B, D&E)	P5731	1
51	MUFFLER .....	3639	1
52	NUT-Hex., 1/2-20 (Starter Pulley).....	5942	1
53	NUT-Lock (Muffler).....	4425	1
54	NUT-Terminal Condenser Lead .....	P5740	1
55	PIN-Camshaft Axle .....	10392	1
56	PIN-Pivot, Air Vane Governor (Used on type A) .....	10015	1
	PIN-Pivot, Air Vane Governor (Used on type B, C, D, E&F)....	90982	1
57	PIN-Wrist .....	6024	1
58	PISTON ASSEMBLY-Standard.....	31001-A	1
	NOTE: Piston Assembly includes Ref. Nos. 57, 67 68, 69 & 70.		
	NOTE: Piston Assemblies are available in the following oversizes: .005, .010, .020, .030 and .040. Order by Part Number and specify oversize.		
59	PLATE-Air Cleaner Mounting (Used on types A, B&C) .....	21055-A	1
	*PLATE-Air Cleaner (Used on types D, E&F) .....	91806	1
60	PLATE-Name .....	6530	1
61	PLATE-Valve Spring Retainer .....	10013	1
62	PLUG-3/8 N. P. T. (Oil Drain).....	5655	1
63	PLUG-Oil Drain .....	5649	1
64	PUMP ASSEMBLY-Oil (Used on types A, B&E) .....	10385-A	1
65	PULLEY-Starter .....	3299	1
66	RETAINER-Valve Spring .....	3028	2
67	RING-Compression (Standard) (Order Ring Set).....	6026	1
68	RING-Oil, Standard .....	6006	1
69	RING-Retainer, Wrist Pin.....	6034	2
70	RING-Scraper, (Standard) (Order Ring Set).....	6027	1
	RING SET (Standard) .....	10023	1
	NOTE: Ring Set includes Ref. Nos. 67, 68, and 70.		
	NOTE: Ring Sets are also available in the following oversizes: .005, .010, .020, .030 and .040. Order by Part Number and specify oversize.		
71	RIVET-Tubular (Name Plate) .....	5460	4
72	ROD ASSEMBLY-Connecting .....	31002-A	1
	NOTE: Assembly includes Ref. Nos. 50 and 77.		
73	ROPE ASSEMBLY-Starter .....	4266	1
74	SCREEN-Rotating .....	90092	1
75	SCREW-R. H. S. T., #8-32x4/5 (Condenser to Plate) .....	P5741	1
76	SCREW-H. H. S. T., #8-32x1/4 (Shroud to Bracket)..... (Clamp to Shroud)	5892	3
77	SCREW-H. H. C., 1/4-28x1 1/4 (Connecting Rod Cap) .....	3235	2
78	SCREW-H. H. S. T., #8-32x3/4 (Deflector to Block) .....	5644	2
79	SCREW-H. W. H., 5/16-18x 1 7/8(2-Tank Bracket) .....	5654	8
80	SCREW-H. H. C., #8-32x7/16, Lock Thread(Air Cleaner..... Plate to Carburetor)	5812	2
81	SCREW & L'WASHER ASS'Y-O. H. Slotted #8-32x9/16..... (Breaker Points to Breaker Box)	P5737	1
82	SCREW & L'WASHER ASS'Y-H. H. C., 1/4-20x1 1/2 .....	5410-G	1
	(Carburetor to Block)(Upper)		
83	SCREW & L'WASHER ASS'Y-R. H. M., #8-32x3/8..... (Air Cleaner Cover to Plate)(Used on types A, B&C)	5457-A	1
84	SCREW & L'WASHER ASS'Y-H. H. C., #8-32x3/8..... (Bracket to Carburetor)	5644-A	2
85	SCREW & L'WASHER ASS'Y-H. H. C., 1/4-20x1/2 .....	3205-G	2
	(Blower Housing to Block)		
86	SCREW & L'WASHER ASS'Y-H. H. C., 1/4-20x1 1/4 .....	5613-G	7
	(Base to Block)		
87	SCREW & L'WASHER ASS'Y-P. H. S. T., #10-24x1 .....	5682-A	2
	(Laminations to Block)		

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 Revised March, 1961  
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88	SCREW & L'WASHER ASS'Y-H. H. C. #10-24x1/2 ..... (Valve Chamber Cover)	5645-A	2
89	SCREW & L'WASHER ASS'Y-H. H. C. , 1/4-20x1 3/4 ..... (Carburetor to Block)(Lower)	5878-G	1
90	SEAL-Oil (Block) .....	10012	1
91	SEAL-Oil (Engine Base).....	9029	1
93	SHROUD-Carburetor .....	21400	1
94	SLIDE ASSEMBLY-Governor Regulating (Used on ..... type A)	6398	1
	SLIDE ASSEMBLY-Governor Regulating ..... (Used on types B, C, D, E&F)	91330	1
95	SPARK PLUG AND GASKET ASSEMBLY .....	K16303-A	1
96	SPRING-Breaker Box Cover .....	P5745	1
97	SPRING-Extension, Speed Regulating .....	90635	1
98	SPRING-Valve .....	3068	2
99	TANK & BLOWER HOUSING ASS'Y-Fuel .....	31413-A	1
	NOTE: Assembly includes Ref. No. 10		
100	TAPPET-Valve.....	10009	2
101	TERMINAL-Jamtite Breaker Points .....	P5739	1
102	VALVE-Exhaust .....	10301	1
	VALVE-Exhaust, Oversize .010 .....	10321	1
103	VALVE-Intake .....	10302	1
	VALVE-Intake, Oversize .010 .....	10322	1
104	VANE-Air Governor (Used on type A) .....	10014	1
	*VANE-Air Governor (Used on Type B, C, D, ..... E&F.)	91033	1
105	WASHER-"C" (Valve Keeper).....	3291	2
106	WASHER-Starter Pulley .....	5941	1
107	WASHER-Terminal, Condenser Lead .....	P5739	1
108	*WASHER-Air Cleaner (Used on types D, E&F) .....	92024	1

**SERVICE NOTES**

1. Refer to Service Bulletin No. 5 for Short Block Information.
2. A few engines have been built with a solid axle oil slinger camshaft. If replacing the camshaft, use the 91950-A Oil Slinger Camshaft and 10310-A Axle as listed.
3. Service Tools available, Refer to Service Bulletin #54 for complete description and Parts Price List for Price.
 

TL-910 Bearing Driver for P. T. O. Side 7/8" #10015 Bearing.	
TL-934 Bearing Driver for Magneto Side, 90278 Bearing also P. T. O. Side 1" #9016 Bearing.	
TL-981 Oil Seal Loader Magneto Side.	
TL-954 Oil Seal Loader P. T. O. Side.	
TL-955 Oil Seal Loader P. T. O. Side 1" Crankshaft.	
TL-962 Oil Seal Loader Magneto Side.	
TL-953 Oil Seal Drive P. T. O. Side 7/8" Crankshaft.	
TL-932 Valve Seat Cutter	
TL-957A Valve Pilot Ass'y.	
TL-936 Cutter for .040 Oversize Valve insert # 15119	
TL-951 Driver Valve Seat.	
TL-952 Rolling Tool Valve Insert.	
TL-977 Reamer Valve Guide Std	
TL-939 Reamer Valve Guide .010 for valves with .019 oversize stem.	
TL-974 Valve Spring Compressor	
TL-978 Valve Lapping Tool	
TL-968 Impact Nut 1/2" Crankshaft Thread.	
TL-916 Impact Nut 1/2" Crankshaft Thread.	
TL-969 Flywheel Puller	
TL-938 Flywheel Holder	
TL-929 Piston Ring Compressor	
TL-941 Crank for turning crankshaft with flywheel removed.	
TL-976 Tru-Arc Pliers for Recoil Service.	
TL-946 Reamer Guides.	
TL-983 Rough Reamer for Block Sleeve Bearing #90278 Bearing.	
TL-982 Finish Reamer for Block Sleeve Bearing #90278 Bearing.	
TL-960 Line Reamer for Block Bearing #90278.	
TL-940 Reamer for Base Sleeve Bearing 7/8" to install 10016 Bearing.	
TL-964 Line Reamer for Base Sleeve Bearing 7/8" to install 10016 Bearing.	
TL-980 Rough Reamer for Base Sleeve Bearing 1" to install 9016 Bearing.	
TL-979 Finish Reamer for Base Sleeve Bearing 1" to install 9016 Bearing.	
TL-959 Line Reamer for Base Sleeve Bearing 1" for installed 9016 Bearing.	
TL-967 Engine Repair or Display Stand.	

\* Indicates New Parts Listed for the First Time.

**CLINTON**

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<b>VS-4100-2000</b>					
G E M					

**MODEL  
VARIATIONS**
**SEC. II, DIV. VS-4100-2000**  
**PARTS CATALOG**  
 Revised April, 1961  
 Supersedes June, 1960

## MODEL VARIATIONS OF VS-4100-2000 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 page three)	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 OR IMPULSE. Refer to Sec. III, Div. H for Parts List.	HOUSING AND TANK ASSEMBLY — BLOWER (Part Nos. 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-4100-2100				31301									
VS-4100-2104	Notes 1, 5, 9			31338						C6362		31413-A	
VS-4100-2105	Note 2			31332						P90996		31413-A	
VS-4100-2106	Notes 2 & 7	10053-B		31103-1						P90996		31413-A	
VS-4100-2107	Note 1									P90996		31413-A	
VS-4100-2108	Notes 1 & 4									C13534		91112-A	
VS-4100-2109				31328						P90996		31413-A	
VS-4100-2110	Note 1			91371						P90996		31413-A	
VS-4100-2111	Note 1			31328						P90996		31413-A	
VS-4100-2112	Note 1			31328						P90996		31413-A	
VS-4100-2113	Note 1			31328			72"			P90996		31413-A	
VS-4100-2114	Notes 2, 3, 4, 6			31334						C13534		91112-A	
VS-4100-2115	Notes 2, 3, 6			31334						P90996		31413-A	
VS-4100-2116							72"			P90996		31413-A	
VS-4100-2117	Note 1			31328					3639				
VS-4100-2118				31342						P90996		31413-A	
VS-4100-2119				31337						P90996		31413-A	
VS-4100-2120	Note 1			31328					4500	P90996		31413-A	
VS-4100-2121	Notes 1 & 4			31328						C13534		91112-A	
VS-4100-2122	Note 1			31328						P90996		31413-A	
VS-4100-2123	Notes 1 & 4			31328						C13534		91112-A	
VS-4100-2124	Note 1			31328						P90996		31413-A	
VS-4100-2125	Notes 1, 2, 3, 6			91371						P90996		31413-A	
VS-4100-2126	Note 1			31328						P90996		31413-A	
VS-4100-2127	Notes 2, 3, 6									P90996		31413-A	
VS-4100-2128	Note 1			31327						P90996		31413-A	
VS-4100-2130	Note 1			31334						P90996		31413-A	
VS-4100-2131	Notes 1 & 4			91371						C13534		91112-A	
VS-4100-2132	Note 1			91371						P90996		31413-A	
VS-4100-2133	Notes 1 & 4			31334						C13534		91112-A	
VS-4100-2134				31301						P90996		31413-A	
VS-4100-2135	Notes 1 & 8									P90996		31413-A	
VS-4100-2136	Notes 2, 3, 6			31334						P90996		31413-A	
VS-4100-2137	Notes 1, 4, 7, 9	10056-A		31121-1						C13534		91112-A	
VS-4100-2138	Notes 2, 3, 6			31332						P90996		31413-A	
VS-4100-2139	Note 1			31327						P90996		31413-A	
VS-4100-2140	Note 1									P90996		31413-A	
VS-4100-2142	Notes 1 & 4									C13534		91112-A	
VS-4100-2143	Notes 1 & 4			31334						C13534		91112-A	
VS-4100-2144	Note 1									P90996		31413-A	

**CLINTON**

**S E R I E S**  
**VS-4100-2000**  
**G E M**

**MODEL  
 VARIATIONS**

**MODEL VARIATIONS OF VS-4100-2000 SERIES (Cont.)**

ENGINE MODEL	FOOTNOTES	BASE—ENGINE	BLOCK ASSEMBLY—	CRANKSHAFT	BEARING—MAIN	CONTROL GROUP	CONTROL CABLE LENGTH	PLATE ASSEMBLY—BEARING	MUFFLER OR MANIFOLD	STARTER—RECOIL	HOUSING ASSEMBLY—	REDUCTION GEAR	MOUNTING POSITION
VS-4100-2145	Notes 1, 4, 7, 9	10053-B		31169						C13534	91112-A		
VS-4100-2146	Notes 1 & 4			31328						C13534	91112-A		
VS-4100-2147	Notes 2, 6, 10			31334						P90996	31413-A		
VS-4100-2148	Notes 1 & 4			91548					4500	C13534	91112-A		
VS-4100-2149	Note 1			31328						P90996	31413-A		
VS-4100-2150	Notes 1 & 16			31328						P90996	31413-A		
VS-4100-2151	Notes 1 & 11			31328						P90996	31413-A		
VS-4100-2152	Notes 1, 4, 11			31328						C13534	91112-A		
VS-4100-2153	Notes 1 & 4			31328						C13534	91112-A		
VS-4100-2154	Notes 1, 4, 11			31328			72"			C13534	91112-A		
VS-4100-2156	Note 9									P90996	31413-A		
VS-4100-2157	Notes 1 & 9									P90996	31413-A		
VS-4100-2158	Notes 1, 2, 10									P90996	31413-A		
VS-4100-2162				31327						P90996	31413-A		
VS-4100-2163	Notes 9 & 11									P90996	31413-A		
VS-4100-2164	Note 1									P90996	31413-A		
VS-4100-2165	Notes 1 & 4			31328						C13534	91112-A		
VS-4100-2166	Notes 1 & 4			91926						C13534	91112-A		
VS-4100-2167	Note 1			91926						P90996	31413-A		
VS-4100-2168	Notes 1, 4, 8									C13534	91112-A		
VS-4100-2169	Notes 1, 4, 12			31328						C13534	91112-A		
VS-4100-2170	Notes 1, 4, 12			91371						C13534	91112-A		
VS-4100-2171	Notes 1, 2, 6, 10			91371						P90996	31413-A		
VS-4100-2172	Note 1			31328						P90996	31413-A		
VS-4100-2173	Notes 1 & 4			31328						C13534	91112-A		
VS-4100-2174	Note 1			31328						P90996	31413-A		
VS-4100-2175	Notes 1 & 9										31413-A		
VS-4100-2176	Notes 1 & 4			31332						C13534	91112-A		
VS-4100-2177	Notes 1 & 8									P90996	31413-A		
VS-4100-2178	Notes 1 & 4			31182						C13534	91112-A		
VS-4100-2179	Note 1			31182						P90996	31413-A		
VS-4100-2180	Note 4			31127						C13534	91112-A		
VS-4100-2181				31327						P90996	31413-A		
VS-4100-2182	Note 1								91016	P90996	31413-A		
VS-4100-2183	Notes 1, 4, 12			31328						C13534	31413-A		
VS-4100-2184	Note 1			31334						P90996	31413-A		
VS-4100-2185	Notes 1 & 4			31334						C13534	91112-A		
VS-4100-2187	Notes 1 & 4			31328						C13534	91112-A		
VS-4100-2188	Notes 1 & 9						72"			P90996	31413-A		
VS-4100-2189	Note 1									P90996	31413-A		
VS-4100-2190	Notes 1 & 13			31339						P90996	31413-A		
VS-4100-2191				31181						P90996	31413-A		
VS-4100-2192	Notes 1, 2, 14			31332						P13516	31413-A		
VS-4100-2193	Notes 1, 2, 4			31332						C13534	91112-A		
VS-4100-2194	Note 1			31337						P90996	31413-A		
VS-4100-2195	Notes 5 & 11			31338					91016	C6362	31413-A		
VS-4100-2196	Notes 1 & 2			91371						P90996	31413-A		
VS-4100-2197	Notes 12 & 17			91371						P90996	31413-A		
VS-4100-2198	Notes 1, 4, 11, 12, 17			91371					91016	C13534	91112-A		
VS-4100-2199	Notes 1 & 12			91371						P90996	31413-A		
VS-4100-2200	Notes 1, 4, 12, 17			91371					91016	C13534	91112-A		
VS-4100-2201	Notes 1 & 2			31334						P90996	31413-A		
VS-4100-2202	Notes 1, 4, 8			31332						C13534	91112-A		
VS-4100-2203	Notes 1, 4, 12			91371						C13534	91112-A		

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<b>VS-4100-2000</b>					
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**MODEL  
VARIATIONS**
**SEC. II, DIV. VS-4100-2000  
PARTS CATALOG**  
 Revised April, 1961  
 Supersedes June, 1960

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**MODEL VARIATIONS OF VS-4100-2000 SERIES (Cont.)**


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ENGINE MODEL	FOOTNOTES	BASE—ENGINE	BLOCK ASSEMBLY—	CRANKSHAFT	BEARING— MAIN	CONTROL GROUP	CONTROL CABLE LENGTH	PLATE ASSEMBLY— BEARING	MUFFLER OR MANIFOLD	STARTER— RECOIL	HOUSING ASSEMBLY—	REDUCTION GEAR	MOUNTING MOUNTING
VS-4100-2204	Notes 2 & 4			31328						C13534	91112-A		
VS-4100-2205	Note 2			31328						P90996	31413-A		
VS-4100-2206				92112						P90996	31413-A		
VS-4100-2207	Notes 2 & 15			31332						P90996	31413-A		
VS-4100-2208	Notes 1 & 4			92112					91016	C13534	31413-A		
VS-4100-2210	Notes 1 & 11			31338					91016	C6362	31413-A		
VS-4100-2211	Notes 1 & 4									C13534	91112-A		
VS-4100-2212	Notes 1 & 14			92112						P13516	31413-A		
VS-4100-2213	Notes 1 & 14			92112					91016	P13516	31413-A		

NOTE 1—Use 12409-A Wire Assembly (Shorting), 31486 Grommet, 10364 Clip, 14290 Nut (Insulating), 5522 Nut, 5647 Screw, 3462 Decal.

NOTE 2—Use 31011 Head, 5752-A Flywheel.

NOTE 3—Use 6394 Cleaner Assembly (Air).

NOTE 4—Use C13534 Impulse Starter, C91119 Cup, 90872 Screen, 4107-A Nut (4). If original position is not required, use 31413-A Housing & Tank Assembly. These parts are included in Kit No. MC91538.

NOTE 5—Use 4954-A Pulley & Screen Assembly.

NOTE 6—Use 90795 Element (Precleaner), 3461 Decal.

NOTE 7—Use 4429 Seal.

NOTE 8—Use 31448-A Shroud Assembly (Engine).

NOTE 9—Use 10070-A Body Assembly (Muffler), 10075 Nut (Muffler), 10021-A Cover Ass'y, 7044 Nut (Wing), 5861 Stud (Muffler).

NOTE 10—Use 91003 Base (Air Cleaner), 91100 Element, 91004 Cover.

NOTE 11—Use 91332 Visual Oil Level Gauge.

NOTE 12—Use 3494 Decal (Warning).

NOTE 13—Use 7274 Elbow (Street).

NOTE 14—Use P90871 Cup, 90872 Screen, 4107-A Nut (4), 4832 Stud (4). These parts and the 13516 Recoil are available in Kit No. P91866.

NOTE 15—Use 6354 Breather Assembly, 4533 Breather Tube, 91996 Connector (Breather Tube to Elbow), 90610 Elbow (Breather), 10353 Mandrel and P14784 Carburetor. For Service to Carburetor Refer to Sec. III, Div. A, Page 21. The Service parts are the same as 14055 Carburetor.

NOTE 16—Use 31418 Shroud and 5943 Screw (2).

NOTE 17—Use 3493 Decal (Garden Mark).