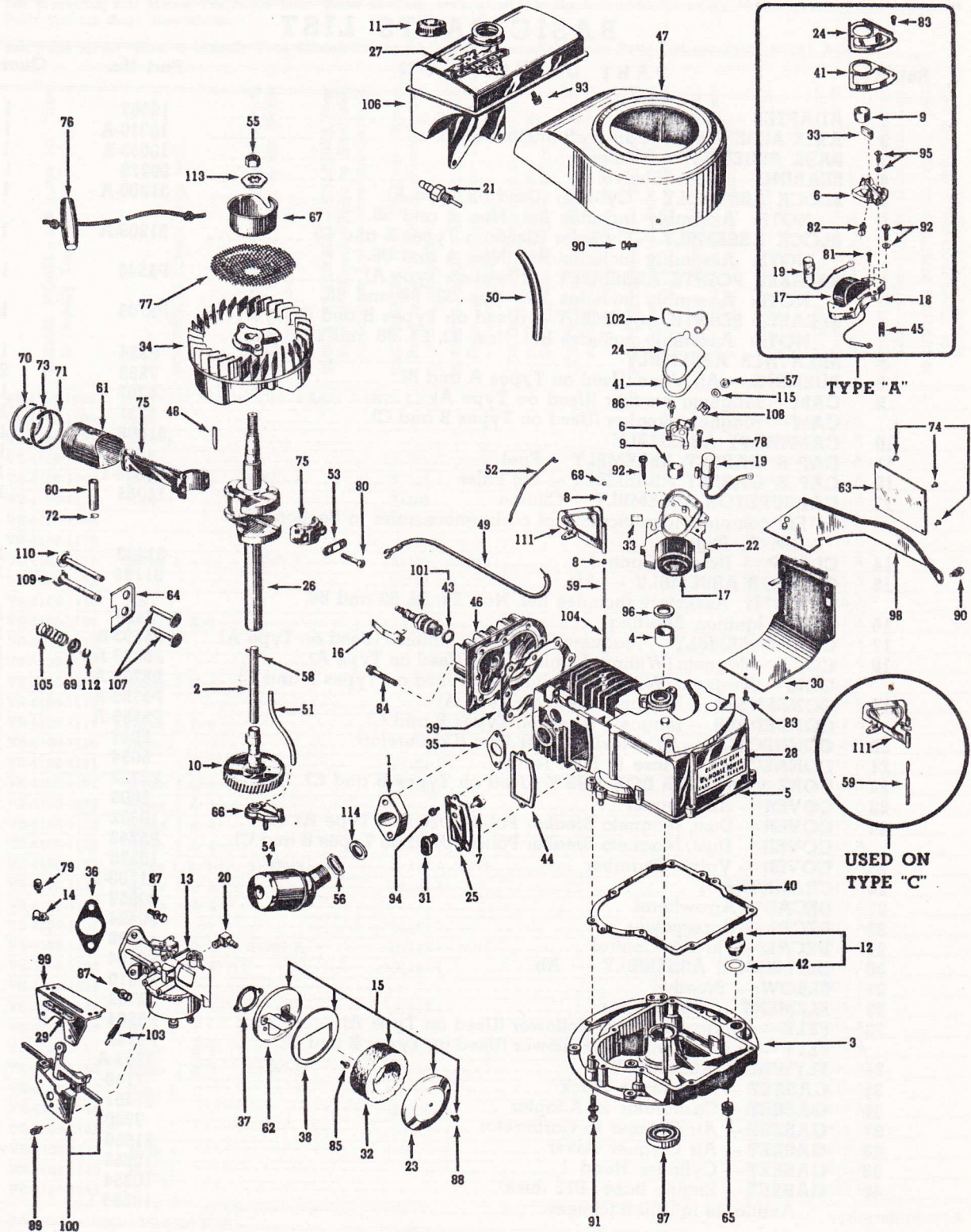


SEC. II. DIV. VS-4100-1000
 PARTS CATALOG
 Revised November, 1959
 Supersedes Dec., 1958

CLINTON

S E R I E S
VS-4100-1000
G E M

BASIC
TYPE



CLINTON

S	E	R	I	E	S
VS-4100-1000					
G E M					

**BASIC
TYPE**

SEC. II, DIV. VS-4100-1000
PARTS CATALOG
Revised November, 1959
Supersedes Dec., 1958

There are three Basic Types of the VS-4100-1000 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	10053-B	1
4	BEARING — Main (Sleeve)	90278	1
5	BLOCK ASSEMBLY — Cylinder (Used on Type A)	31200-A	1
	NOTE: Assembly includes Ref. Nos. 4 and 96.		
	BLOCK ASSEMBLY — Cylinder (Used on Types B and C)	31209-A	1
	NOTE: Assembly includes Ref. Nos. 4 and 96.		
6	BREAKER POINTS ASSEMBLY — (Used on Type A)	P5543	1
	NOTE: Assembly includes Ref. Nos. 33, 82 and 95.		
	BREAKER POINTS ASSEMBLY — (Used on Types B and C)	P5735	1
	NOTE: Assembly includes Ref. Nos. 33, 57, 86 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	31008	1
11	CAP & GASKET ASSEMBLY — Fuel	4517-A	1
12	CAP & GASKET ASSEMBLY — Oil Filler	5095-1	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	91195	1
	NOTE: Assembly includes Ref. Nos. 23, 32, 62 and 88.		
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	CONNECTOR — Hose to Fuel Tank	5054	1
22	CORE & BREAKER BOX ASS'Y (Used on Types B and C)	P5732	1
23	COVER — Air Cleaner	2003	1
24	COVER — Dust, Magneto Breaker Points (Used on Type A)	10382	1
	COVER — Dust, Magneto Breaker Points (Used on Types B and C)	P5743	1
25	COVER — Valve Chamber	10323	1
26	CRANKSHAFT	31100-1	1
27	DECAL — Arrowhead	90559	1
28	DECAL — Horsepower	90494	1
29	DECAL — Throttle Control	3488	1
30	DEFLECTOR ASSEMBLY — Air	90504	1
31	ELBOW — Breather	90610	1
32	ELEMENT — Air Cleaner	2132	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	3990	1
38	GASKET — Air Cleaner Cover	21056	1
39	GASKET — Cylinder Head	10253	1
40	GASKET — Engine Base (.015 thick)	10254	1
	Available in .010 thickness	10254-1	1

BASIC PARTS LIST (Continued)

Ref. No.	PART DESCRIPTION	Part No.	Quantity
41	GASKET — Cover, Dust (Breaker Points) (Used on Type A).....	10250	1
	GASKET — Cover, Dust (Breaker Points) (Used on Types B and C)....	P5744	1
42	GASKET — Oil Filler Cap	5097	1
43	GASKET — Spark Plug	3115	1
44	GASKET — Valve Chamber Cover	10251	1
	GASKET KIT — Engine Overhaul	91562	1
45	GROMMET — Magneto (Breaker Lead Wire) (Used on Type A).....	10367	1
46	HEAD — Cylinder	31477	1
47	HOUSING ASSEMBLY — Blower.....	21007-A	1
48	KEY — Flywheel.....	10339	1
49	LEAD — Hi-Tension, Magneto (Used on Type A).....	P2055	1
	LEAD — Hi-Tension, Magneto (Used on Types B and C).....	P5555	1
50	LINE — Flexible, Fuel	6316	1
51	LINE — Oil Distributor (Oil Pump).....	10390	1
52	LINK — Carburetor to Air Vane.....	31491	1
53	LOCK — Double, Connecting Rod Screw.....	21318	1
54	MUFFLER	3639	1
55	NUT — Starter Pulley	5877	1
56	NUT — Lock (Muffler).....	4425	1
57	NUT — Terminal Condenser Lead (Used on Types B and C).....	5740	1
58	PIN — Camshaft Axle	10392	1
59	PIN — Pivot, Air Vane Governor (Used on Types A and B).....	7238	1
	PIN — Pivot, Air Vane Governor (Used on Type C).....	10015	1
60	PIN — Wrist	6024	1
61	PISTON — Standard.....	31001	1
	PISTON ASSEMBLY — Standard.....	31001-A	1
	NOTE: Piston Assembly includes Ref. Nos. 60, 61, 70, 71, 72 and 73.		
	NOTE: Piston Assemblies are available in the following oversizes: .005, .010, .020, .030, and .040. Order by Part Number and specify oversize.		
62	PLATE — Air Cleaner Mounting	21055-A	1
63	PLATE — Name	6530	1
64	PLATE — Valve Spring Retainer	10013	1
65	PLUG — 3/8 N.P.T. (Oil Drain).....	5627	1
66	PUMP ASSEMBLY — Oil.....	10385-A	1
67	PULLEY — Starter	12397	1
68	RETAINER — Air Vane (Used on Types A and B).....	4430	1
69	RETAINER — Valve Spring	3028	2
70	RING — Compression, Standard	6026	1
71	RING — Oil, Standard	6006	1
72	RING — Retainer, Wrist Pin	6034	2
73	RING — Scraper, Standard	6027	1
	RING SET — Standard.....	10023	1
	NOTE: Ring Set includes Ref. Nos. 70, 71, and 73.		
	NOTE: Ring Sets are available in the following oversizes: .005, .010, .020, .030, .040. Order by Part Number and specify oversize.		
74	RIVET — Tubular (4—Name Plate).....	5469	4
75	ROD ASSEMBLY — Connecting	31002-A	1
	NOTE: Assembly includes Ref. Nos. 53 and 80.		
76	ROPE ASSEMBLY — Starter	4266	1
77	SCREEN — Rotating.....	90092	1
78	SCREW — R.H.S.T., #8-32 x 4/5 (Condenser to Plate) (Used on Types B and C).....	5741	1
79	SCREW — H.H.S.T., #8-32 x 1/4 (Shroud to Brkt.) (Clamp to Shroud)....	5892	3
80	SCREW — H.H.C., 1/4-28 x 1 1/4 (Connecting Rod Cap).....	3235	2
81	SCREW — P.H.S.T., #4-40 x 1/4 (Coil to Laminations) (Used on Type A)	5641	1
82	SCREW — R.H.M., #6-32 x 1/4 (Breaker Points Terminal) (Used on Type A).....	5664	1

CLINTON

S	E	R	I	E	S
VS-4100-1000					
G E M					

**BASIC
TYPE**
 SEC. II, DIV. VS-4100-1000
 PARTS CATALOG
 Revised November, 1959
 Supersedes Dec., 1958
BASIC PARTS LIST (Continued)

Ref. No.	PART DESCRIPTION	Part No.	Quantity
83	SCREW — H.H.S.T., #8-32 x 3/4 (2—Dust Cover) (2—Deflector to Block)	5644	4
84	SCREW — H.W.H., 5/16-18 x 1 7/8 (2—Tank Bracket) (6—Cylinder Head)	5654	8
85	SCREW — H.H.C., 8-32 x 7/16, Lock Thread (Air Cleaner Plate to Carb.)	5812	2
86	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
87	SCREW & L'WASHER ASS'Y — H.H.C., 1/4-28 x 1 1/4 (Carburetor to Block)	5926-G	1
88	SCREW & L'WASHER ASS'Y — B.H.M., 8-32 x 3/8 (Air Cleaner Cover to Plate)	5457-A	1
89	SCREW & L'WASHER ASS'Y — H.H.C., 8-32 x 3/8 (Bracket to Carb.)	5644-A	2
90	SCREW & L'WASHER ASS'Y — H.H.C., 1/4-20 x 1/2 (Blower Housing to Block)	3205-G	2
91	SCREW & L'WASHER ASS'Y — H.H.C., 1/4-20 x 1 1/4 (Base to Block)	5613-G	7
92	SCREW & L'WASHER ASS'Y — P.H.S.T., #10-24 x 1 (Laminations to Block)	5682-A	2
93	SCREW & L'WASHER ASS'Y — R.H.M., #10-24 x 1/4 (Blower Housing to Tank)	5843-A	2
94	SCREW & L'WASHER ASS'Y — H.H.C., #10-24 x 1/2 (Valve Chamber Cover)	5845-A	2
95	SCREW & L'WASHER ASS'Y — R.H.M., #8-32 x 3/8 (Points to Block) (Used on Type A)	5444-F	1
96	SEAL — Oil (Block)	10012	1
97	SEAL — Oil (Engine Base)	4429	1
98	SHIELD — Flywheel	90502	1
99	SHROUD — Carburetor	21400	1
100	SLIDE ASSEMBLY — Governor Regulating	6398	1
101	SPARK PLUG AND 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 ASSEMBLY — Fuel	21371-D	1
	NOTE: Assembly includes Ref. No. 11.		
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	VANE — Air Governor (Used on Types A and B)	10393	1
	VANE — Air Governor (Used on Type C)	10014	1
112	WASHER — "C" (Valve Keeper)	3291	2
113	WASHER — Starter Pulley	5880	1
114	WASHER — Flat, Steel (Muffler)	7444	1
115	WASHER — Terminal, Condenser Lead (Used on Types B and C)	5739	1

MODEL VARIATIONS OF VS-4100-1000 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 page two).	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-4100-1000													
VS-4100-1103	Note 1						72"			P90996	21015-A		
VS-4100-1105	Note 1									P90996	21015-A		
VS-4100-1106										P90996	21015-A		
VS-4100-1107	Notes 2 & 3	31007-A		31135	9016					P90996	21015-A		
VS-4100-1108	Note 1				31165					P90996	21015-A		
VS-4100-1109					31162					P90996	21015-A		
VS-4100-1110							72"		6342	P90996	21015-A		
VS-4100-1111	Notes 1 & 2	31007-A		31135	9016					P90996	21015-A		
VS-4100-1112					31101-1					P90996	21015-A		
VS-4100-1113	Note 1				31101-1					P90996	21015-A		
VS-4100-1114	Notes 1 & 4									P90996	21015-A		
VS-4100-1115	Note 4									P90996	21015-A		
VS-4100-1116										P90996	21015-A		
VS-4100-1117	Notes 1 & 4								4500	P90996	21015-A		
VS-4100-1118										P90996	21015-A		
VS-4100-1119	Notes 1 & 4									P90996	21015-A		
VS-4100-1120	Note 1									P90996	21015-A		
VS-4100-1121					31101-1					P90996	21015-A		
VS-4100-1122	Notes 1 & 4				31101-1					P90996	21015-A		
VS-4100-1123	Notes 1 & 4									P90996	21015-A		
VS-4100-1125	Notes 1 & 4									P90996	21015-A		
VS-4100-1126	Notes 1 & 4				31101-1					P90996	21015-A		
VS-4100-1127	Notes 1, 2, 4	31007-A		31128	9016					P90996	21015-A		
VS-4100-1128	Notes 1 & 5				31104-1					P90996	21015-A		
VS-4100-1129	Notes 1 & 4									P90996	21015-A		
VS-4100-1131					31162					P90996	21015-A		
VS-4100-1132	Notes 1 & 2	31007-A		31119	9016					P90996	21015-A		
VS-4100-1133	Notes 6 & 7				31122-1					P90996	21015-A		
VS-4100-1134										P90996	21015-A		
VS-4100-1135					31107-1					P90996	21015-A		
VS-4100-1136	Note 1									P90996	21015-A		
VS-4100-1137	Notes 1 & 4				31103-1				6342	P90996	21015-A		
VS-4100-1138	Notes 1 & 2	31007-A		31128						P90996	21015-A		
VS-4100-1139	Note 1									P90996	21015-A		
VS-4100-1140					31105-1					P90996	21015-A		
VS-4100-1141					31162					P90996	21015-A		
VS-4100-1142	Note 1									P90996	21015-A		
VS-4100-1143	Note 1									P90996	21015-A		
VS-4100-1144										P90996	21015-A		

CLINTON

S E R I E S
VS-4100-1000
G E M

**MODEL
VARIATIONS**
**SEC. II, DIV. VS-4100-1000
PARTS CATALOG**
 Revised November, 1959
 Supersedes June, 1959

MODEL VARIATIONS OF VS-4100-1000 SERIES (Cont.)

ENGINE MODEL	FOOTNOTES	BASE—ENGINE	BLOCK ASSEMBLY— CYLINDER	CRANKSHAFT	BEARING— MAIN	CONTROL GROUP	CONTROL CABLE LENGTH	PLATE ASSEMBLY— BEARING	MUFFLER OR MANIFOLD	STARTER— RECOIL	HOUSING ASSEMBLY— BLOWER	REDUCTION GEAR	MOUNTING POSITION
VS-4100-1145	Note 1			31169					6342	P90996	21015-A		
VS-4100-1146	Note 1									P90996	21015-A		
VS-4100-1147	Note 1									P90996	21015-A		
VS-4100-1149	Notes 1 & 2	31007-A		31328						P90996	21015-A		
VS-4100-1150	Note 1						72"		6342	P90996	21015-A		
VS-4100-1151	Note 1								6342	P90996	21015-A		
VS-4100-1155										P90996	21015-A		
VS-4100-1157	Note 2	31007-A		31328	9016		72"			P90996	21015-A		
VS-4100-1158	Note 1			31101-1					6342	P90996	21015-A		
VS-4100-1159	Note 1			31101-1						P90996	21015-A		
VS-4100-1161	Note 1			31101-1					6342	P90996	21015-A		
VS-4100-1160	Notes 1, 5, 8								6342	P90996	21015-A		
VS-4100-1165	Note 9			31102-1						P90996	21015-A		
VS-4100-1166	Note 9			31102-1						P90996	21015-A		
VS-4100-1168	Notes 6 & 10	10053-B		31103-1						P90996	21015-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 9029 Seal (Oil).

NOTE 3—Use 5832 Plug (Pipe).

NOTE 4—This unit requires special length Starter Rope in Recoil Starter.

NOTE 5—Use 10320 Knob, 5444-A Screw & L'Washer Assembly.

NOTE 6—Use 5649 Plug, 5655 Plug, 7274 Elbow.

NOTE 7—Use 10320 Knob, 5444-A Screw & L'Washer, 5481 Washer (Lock).

NOTE 8—Use 5051 Valve (Fuel Shut-Off).

NOTE 9—Use 31011 Head, 5752-A Flywheel.

NOTE 10—Use 5752-A Flywheel.