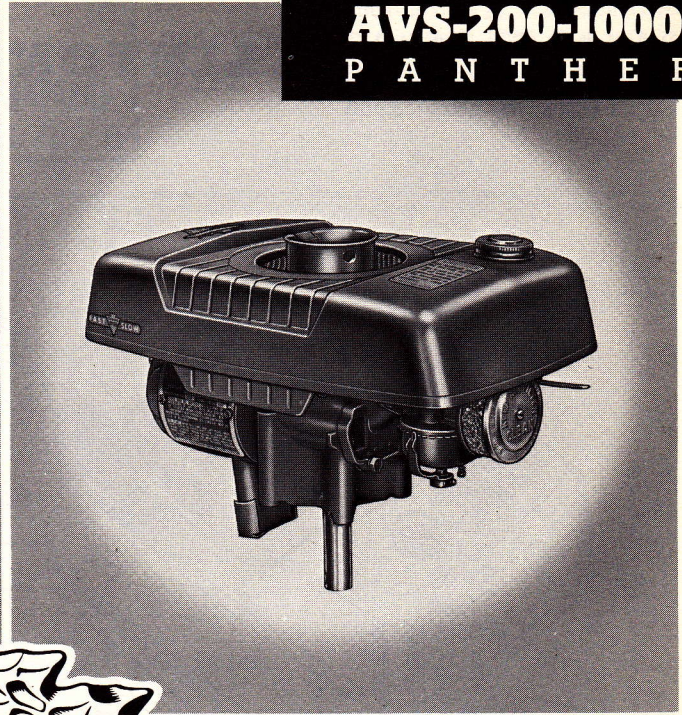
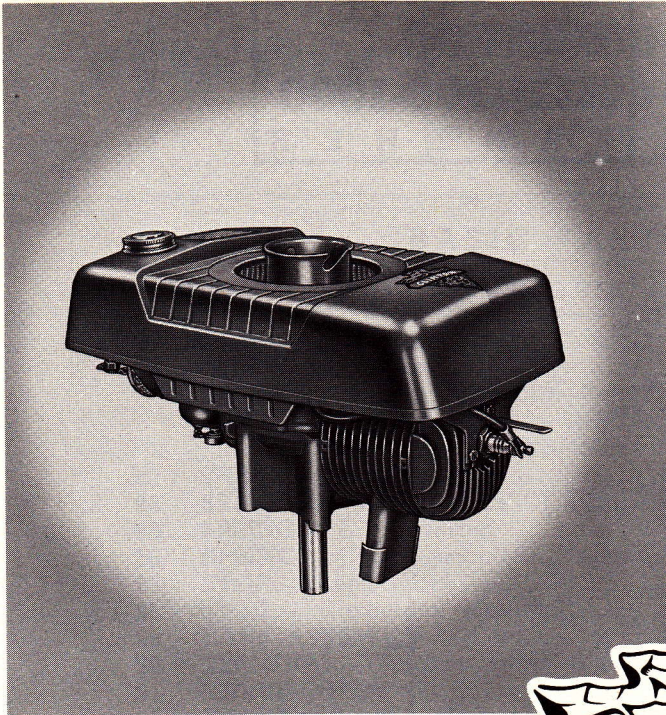
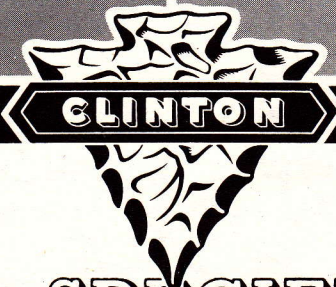


S E R I E S
AVS-200
AVS-200-1000
P A N T H E R



A Wide Range of Models are Made By



For Farm, Home and Industrial Use.

	H.P.	R.P.M.
AVS-200	1.1	2000
AVS-200-1000	1.5	2800
	1.75	3600

GENERAL SPECIFICATIONS

Model	Type	Description	Starter	Weight
AVS-200, AVS-200-1000	Air Cooled	Vertical Shaft	Rope or Recoil	15¾ lb.

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.

BORE: 17/8"

STROKE: 1 5/8"

PISTON DISPLACEMENT: 4.5 cubic inches.

IGNITION: Patented high tension, built-in flywheel magneto, moisture and dust proof, covered points.

SPARK PLUG: 14 mm.

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

CARBURETION: Float-feed carburetor with manual speed adjustment and gasoline strainer with shut-off.

GOVERNOR: Adjustable, air-velocity type completely enclosed and statically balanced.

MAIN BEARINGS: Three bearings with two large surface bearings on power-take-off side designed to withstand extra stress.

CRANKSHAFT: Arma steel, induction heat treated, has counter-weights integral with shaft. Bearing surface superfinished. Extra large diameter crankshaft extension.

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, pinned to prevent rotation.

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: Two quart capacity.

DIRECTION OF ROTATION: (viewed from power-take-off side) Counter-clockwise.

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

STANDARD EQUIPMENT

Standard equipment includes: Air cleaner, specially designed dust and moisture-proof high-tension flywheel magneto, fuel tank, muffler, blower housing screen.

SPECIAL EQUIPMENT

Special equipment available includes: Recoil starter, remote governor controls, remote stop control and any color finish, above deck muffler, mounting plate converter to 8" bolt cycle.



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

CLINTON ENGINES PROVIDE POWER

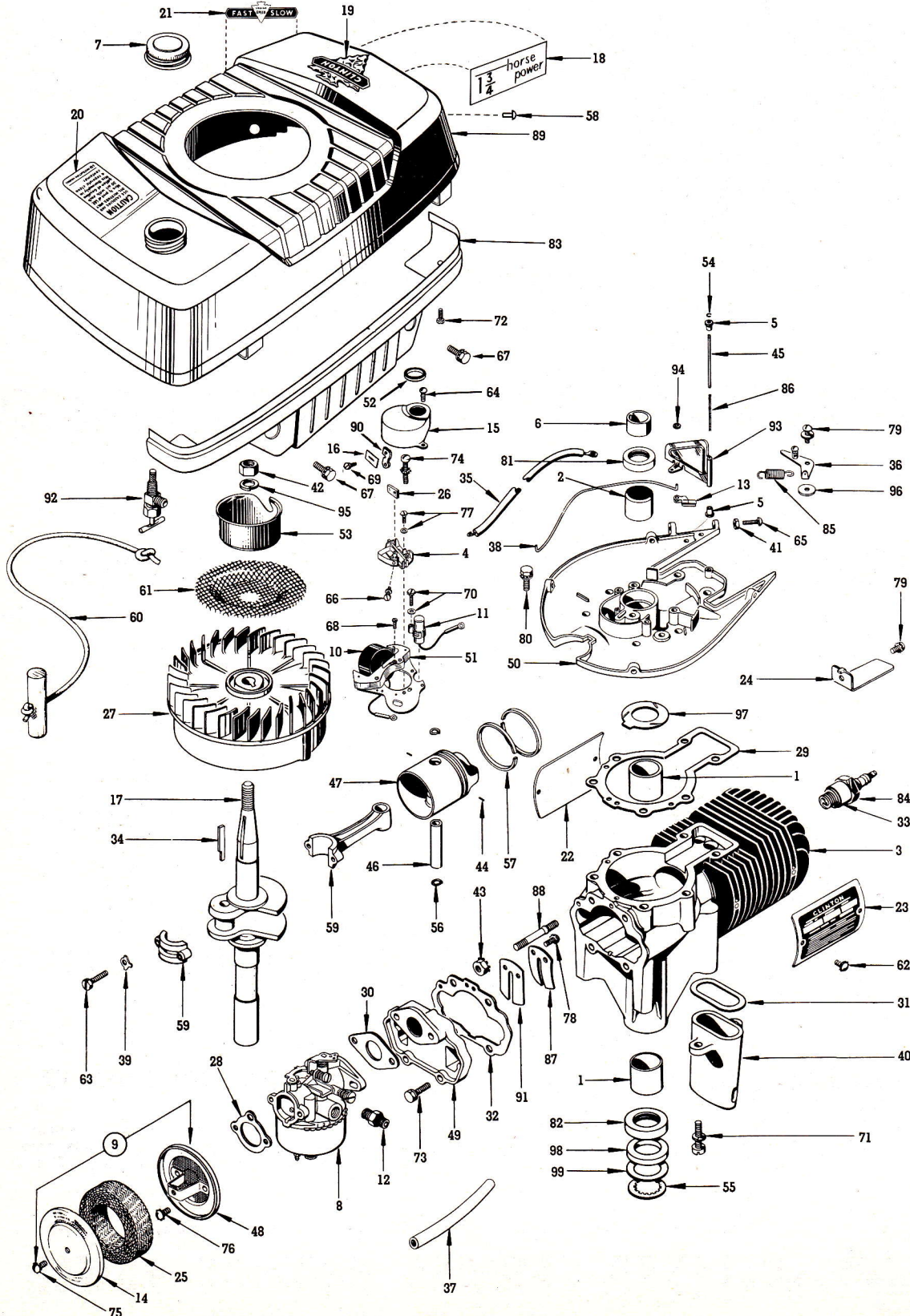
FOR FARM • HOME • INDUSTRIAL EQUIPMENT

PRINTED IN U.S.A.

CLINTON

S E R I E S
AVS-200
AVS-200-1000
P A N T H E R

BASIC
TYPE



CLINTON

S E R I E S
AVS-200
AVS-200-1000
P A N T H E R

BASIC
TYPE

SEC. II. DIV. AVS-200
AVS-200-1000
PARTS CATALOG
Revised November, 1956
Supersedes January, 1956

There are two Basic Types of the AVS-200 Engine covered by this Basic Parts List. These two types are the AVS-200 and the current type AVS-200-1000.

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

BASIC PARTS LIST

Fig. 1 Ref. No.	PART DESCRIPTION	Part No.	Quantity
1	BEARING — Main Sleeve (Block Assy., Cylinder)—Used on AVS-200	2058	2
	BEARING — Main Sleeve (Block Assy., Cylinder)—Used on AVS-200-1000 Series	9016	1
2	BEARING — Sleeve (Bearing Plate)	2059	1
3	BLOCK ASSEMBLY — Cylinder (includes Ref. No. 1)—Used on AVS-200 Series	2020-A	1
	BLOCK ASSEMBLY — Cylinder—Used on AVS-200-1000 Series	2276	1
4	BREAKER POINTS ASSEMBLY (includes Ref. Nos. 26 and 66)	P5543	1
5	BUSHING — Air Vane	7239	2
6	CAM — Breaker Points	5594	1
7	CAP AND GASKET ASSEMBLY — Fuel	4517-A	1
8	CARBURETOR ASSEMBLY — Clinton—Used on AVS-200	14012	1
	CARBURETOR ASSEMBLY — Clinton—Used on AVS-200-1000	14013	1
9	CLEANER ASSEMBLY — Air	2000-A	1
10	COIL — Magneto (without laminations)	P5593-A	1
11	CONDENSER — Magneto	P5589-A	1
12	CONNECTOR — Fuel Line (Flexible)—Used on AVS-200	5052	1
	CONNECTOR — Fuel Line—Used on AVS-200-1000	5053	1
13	CONNECTOR — Governor Link to Air Vane	2226	1
14	COVER — Air Cleaner	2003	1
15	COVER — Breaker Points (with seal)	5595-A	1
16	COVER — Breaker Points Terminal (Fish Paper)—Used on 1000 Series	5714	1
17	CRANKSHAFT — Used on AVS-200	2041	1
	CRANKSHAFT — Used on 1000 Series	2370	1
18	DECAL — Horsepower—Used on AVS-200	21010	1
19	DECAL — Arrowhead	3579	1
20	DECAL — Instruction, Fuel Mixture	2098	1
21	DECAL — Engine Speed	4549	1
22	DEFLECTOR — Air Cylinder—Used on AVS-200	2037	1
23	DEFLECTOR AND NAMEPLATE ASSEMBLY	2106	1
24	DEVICE — Ignition Shorting Clip	2054	1
25	ELEMENT — Air Cleaner	2132	1
26	FELT — Lubrication, Cam Follower	P5504	1
27	FLYWHEEL ASSEMBLY	5597-A	1
28	GASKET — Air Cleaner	2075	1
29	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.		
30	GASKET — Carburetor to Reed Plate	2096	1
31	GASKET — Muffler to Block	2069	1
32	GASKET — Reed Plate to Block	2344	1
33	GASKET — Spark Plug	3115	1
	GASKET KIT — Engine Overhaul	2203	1
	NOTE: Kit contains all necessary Gaskets and Oil Seals.		
34	KEY — Flywheel	10339	1
35	LEAD — High Tension Magneto	P2055	1
36	LEVER AND SCREW ASSEMBLY — Throttle Control	2302-B	1
37	LINE — Fuel (Flexible)	6316	1
38	LINK — Air Governor	2335	1
39	LOCK — Connecting Rod Cap	2027	2
40	MUFFLER	2082	1
41	NUT — Hexagon, 8-32 (Speed Control Adjusting)	5522	1
42	NUT — Hexagon, 7/16-20 (Starter Pulley)	3250	1
43	NUT & LOCKWASHER ASSEMBLY — Hexagon, 1/4-28 (Carburetor to Reed Plate)	3255-A	2

CLINTON

S E R I E S
AVS-200
AVS-200-1000
 P A N T H E R

BASIC
 TYPE

BASIC PARTS LIST (Continued)

Fig. 1 Ref. No.	PART DESCRIPTION	Part No.	Quantity
44	PIN — Drive (Ring Retainer)-----	2099	2
45	PIN — Pivot, Air Vane-----	7238	1
46	PIN — Wrist-----	2028	1
47	PISTON — Standard-----	2030	1
	PISTON ASSEMBLY — Standard-----	2030-D	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. 44, 46, 47, 56 and 57.		
48	PLATE — Air Cleaner Mounting-----	2001-B	1
49	PLATE — Reed Valve Assembly-----	2033-A	1
50	PLATE — Bearing-----	2312-A	1
	NOTE: Bearing Plate includes Ref. Nos. 2 and 81.		
51	PLATE ASSEMBLY — Magneto with Coil and Lamination-----	5590-B	1
	NOTE: Bearing and Magneto Plate Assembly includes Ref. Nos. 4, 10, 16, 26, 51, 66, 68, 69, 70, 77 and 90.		
52	PROTECTOR — Oil Seal—Used on AVS-200-1000 Series-----	4558	1
53	PULLEY — Starter-----	3299	1
54	RETAINER — Air Vane-----	4430	1
55	RETAINER — Power Take-Off (Self-Locking)—Used on AVS-200-----	7452	1
56	RETAINER — Wrist Pin-----	2029	1
57	RING — Piston, Standard-----	2056	2
	RING SET — Piston, Standard-----	2200	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	2
59	ROD ASSEMBLY — Connecting-----	2022-D	1
60	ROPE ASSEMBLY — Starting-----	4266	1
61	SCREEN — Revolving-----	7187	1
62	SCREW — 8-32 x 3/8 (Deflector to Block and Nameplate to Block)-----	5644	4
63	SCREW — H.H. Slotted, 10-24 x 3/4 (Connecting Rod Cap)-----	5429	2
64	SCREW — O.H.S.T., 6-32 x 3/8 (Breaker Cover to Bearing Plate)-----	5405	2
65	SCREW — R.H.M., 8-32 x 7/8 (Speed Control Adjusting)-----	3240	1
66	SCREW — R.H.S.T., 6-32 x 1/2 (Breaker Points Terminal)-----	5664	1
67	SCREW — Shroud to Tank Assembly-----	5457	4
68	SCREW — Coil to Laminations-----	5641	1
69	SCREW — Used on 1000 Series (Wires to Breaker Points Terminal)-----	5631	1
70	SCREW & L'WASHER ASSY. — F.H.M., 8-32 x 3/8 (Condenser to Magneto Plate)-----	5674-F	1
71	SCREW & L'WASHER ASSY. — F.H.M., 1/4-20 x 3/4 (Muffler to Block)-----	5679-G	2
72	SCREW & L'WASHER ASSY. — H.H.C., 1/4-20 x 1/2 (Tank Assembly to Bearing Plate)-----	3632-G	4
73	SCREW & L'WASHER ASSY. — H.H.C., 1/4-20 x 7/8 (Reed Plate to Block)-----	3294-G	2
74	SCREW & L'WASHER ASSY. — P.H.S.T., 10-24 x 1 (Magneto Plate to Bearing Plate)-----	5632-A	2
75	SCREW & L'WASHER ASSY. — P.H.S.T., 8-32 x 3/8 (Air Cleaner Cover to Mounting Plate)-----	5457-A	1
76	SCREW & L'WASHER ASSY. — F.H.M., 8-32 x 7/16 (Mounting Plate to Carburetor)-----	5673-A	2
77	SCREW & L'WASHER ASSY. — R.H.M., 8-32 x 5/16 (Breaker Points To Bearing Plate)-----	5409-F	1
78	SCREW & L'WASHER ASSY. — R.H.S.T., 8-32 x 3/8 (Reed Assembly to Reed Plate)-----	5644-A	2
79	SCREW & L'WASHER ASSY. — H.H.C., 8-32 x 1/2 (1—Speed Control Lever, 3—Ignition Shorting Clip)-----	5443-A	4
80	SCREW & L'WASHER ASSY. — H.H.C., 1/4-20 x 3/4 (Bearing Plate to Block)-----	5446-F	6

CLINTON

S E R I E S
AVS-200
AVS-200-1000
P A N T H E R

BASIC
TYPE

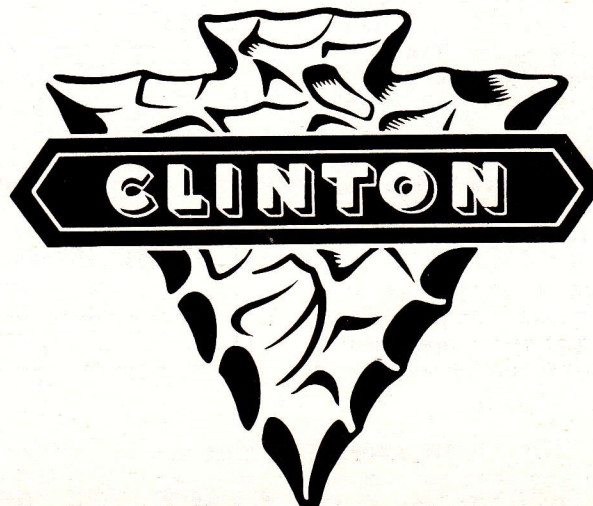
SEC. II. DIV. AVS-200
AVS-200-1000
PARTS CATALOG
Revised November, 1956
Supersedes January, 1956

BASIC PARTS LIST (Continued)

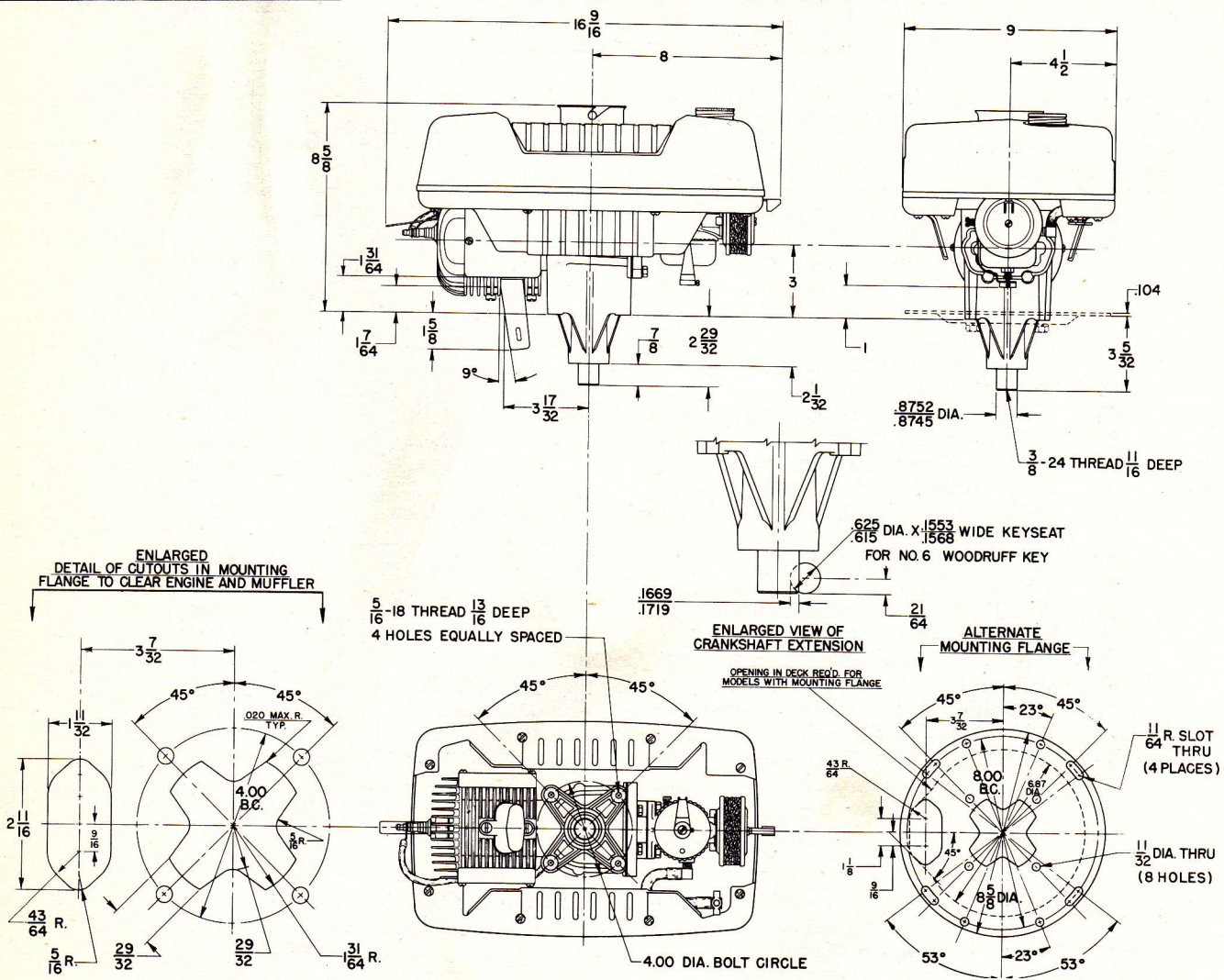
Fig. 1 Ref. No.	PART DESCRIPTION	Part No.	Quantity
81	SEAL — Oil (Bearing Plate).....	7254	1
82	SEAL — Oil (Power Take-Off).....	4429	1
	SEAL — Oil (Power Take-Off)—Used on AVS-200 Series.....	2121	1
	NOTE: 2121 Seal replaces 4429 Seal, 7443 Felt Washer, 7444 Flat Washer and 7452 Retainer (Excluder Kit No. 7443-A).		
83	SHROUD — Engine.....	2334	2
84	SPARK PLUG AND GASKET ASSEMBLY.....	2168-A	1
85	SPRING — Air Governor.....	2448	1
86	SPRING — Compression (Air Vane).....	10005	1
87	STOP — Reed Valve.....	2036	1
88	STUD — Carburetor Mounting.....	2063	2
89	TANK ASSEMBLY — Fuel.....	2330-D	1
90	TERMINAL — Breaker Points—Used on AVS-200-1000 Series.....	5713	1
91	VALVE — Reed.....	2035	1
92	VALVE — Fuel Shut-Off.....	4548	1
93	VANE — Air Governor.....	2323	1
94	WASHER — Air Governor Link.....	2049	1
95	WASHER — Lock (Starter Pulley).....	3275	1
96	WASHER — Spring Tension (Throttle Control).....	2077	1
97	WASHER — Thrust, Bronze (Crankshaft)—Used on AVS-200 Series.....	2064	1
	WASHER — Thrust, Bronze—Used on AVS-200-1000 Series.....	2026	1
98	WASHER — Felt (Power Take-Off)—Used on AVS-200 Series.....	7443	1
99	WASHER — Flat, Steel (Power Take-Off)—Used on AVS-200 Series.....	7444	1

AVAILABLE OVERHAUL KITS

Engine Model	Description	Kit No.
All Types	Gasket Overhaul Kit	2203
All Types	Engine Overhaul Kit	6310
All Types	Carburetor Repair Kit (Clinton)	14237



DIMENSIONAL SPECIFICATIONS AND POWER DATA



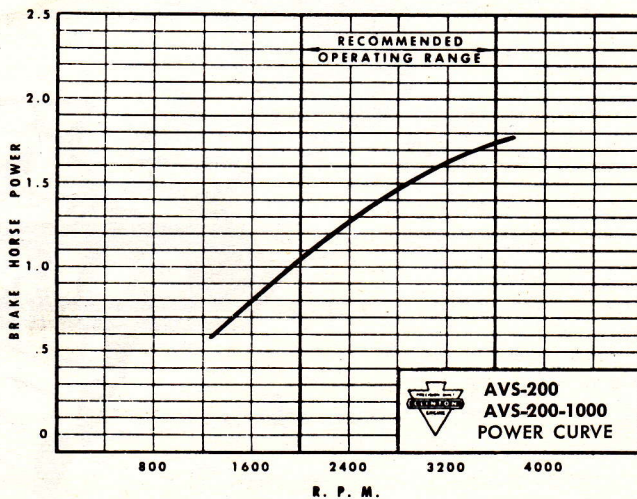
POWER DATA

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% 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. without load. Complete details of installations requiring continuous operation at other than recommended speeds should be referred to the factory for approval.



CABLE ADDRESS: ENGINES U. S. A.



ENGINE DIVISION OF **CLINTON MACHINE CO.**

MAQUOKETA, IOWA

CLINTON

S E R I E S
AVS-200
AVS-200-1000
P A N T H E R

MODEL
VARIATIONS

SEC. II, DIV. AVS-200
SEC. II, DIV. AVS-200-1000
PARTS CATALOG
Revised January, 1959
Supersedes May, 1957

MODEL VARIATIONS OF AVS-200—AVS-200-1000 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	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.	MUFFLER OR MANIFOLD (Part Numbers Shown). Refer to Illustrated Basic Parts List for corresponding part.	HOUSING ASSEMBLY — BLOWER (Part Numbers Shown). Refer to Illustrated Basic Parts List for corresponding part.
AVS-200-100						Yes		2330-B
AVS-200-101	No Variation—Use Basic Parts List							
AVS-200-102	Notes 1 & 2						2350-B	
AVS-200-103	Note 1	2294						
AVS-200-104						Yes		2330-B
AVS-200-105	No Variation—Use Basic Parts List							
AVS-200-106						Yes		2330-B
AVS-200-107				72"				
AVS-200-108				72"		Yes		2330-B
AVS-200-109	Note 1					Yes		2330-B
AVS-200-110	Note 1							
AVS-200-111						Yes		2330-B
AVS-200-112				72"		Yes		2330-B
AVS-200-113	Note 1					Yes		2330-B
AVS-200-1100						Yes		2330-B
AVS-200-1104						Yes		2330-B
AVS-200-1107				72"				
AVS-200-1112				72"		Yes		2330-B
AVS-200-1114	Notes 3 & 4							
AVS-200-1115	Note 5	2376				Yes		2330-B
AVS-200-1116	Notes 2 & 5					Yes	2324-A	2330-B
AVS-200-1117	Note 6	2375				Yes		2330-B
AVS-200-1118	Notes 7 & 8				2318	Yes	2220-A	2330-G

NOTE 1—Use #2131 Bracket and (4) #3217-G Screw and L'Washer Assembly.

NOTE 2—Use #2346 Deflector.

NOTE 3—Use #2315-A Plate Assembly, #5567-B Wire Assembly, #5566 Grommet and #5644 Screw.

NOTE 4—Use #4181 Spark Plug Cover.

NOTE 5—Use #2431 Flange (Engine Adapter) and (4) #3217-G Screw and L'Washer Assembly.

NOTE 6—Use #2302-D Throttle Control Lever.

NOTE 7—Use #14268 Carburetor, #14283 Knob, #14290 Grommet, #14280 Clip, #5647 Screw, #2652 Panel Engine Control, #4571 Decal, #4573 Decal, #5698-G Screw and L'Washer (2), #2360 Bracket (2).

NOTE 8—Use #2278 Block Assembly.

SEC. II DIV. 100-1000
PARTS CATALOG
Revised January, 1955
Supersedes May, 1953

MODEL
VARIATIONS

CLINTON
AVS-300-1000
PARTS
C A T A L O G

CLINTON

MODEL VARIATIONS OF AVS-300-AVS-300-1000 SERIES

The construction of Clinton Engines is a wide variety of cast metals in what is known as "Model Variations." Following is the complete list of all models produced up to date this catalog covers. Complete cast Engine Model from the Top Mount and Assembly Number for the series used in CLINTON TO or IN PLACE OF the parts illustrated and shown in the parts lists 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 101 for "How to Identify Your Clinton Engine." Use the preceding table for the parts list except as shown below.

Model	Top Mount	Assembly	Notes
AVS-300-100	Yes	No	No Variations
AVS-300-101	Yes	No	No Variations
AVS-300-102	Yes	No	No Variations
AVS-300-103	Yes	No	No Variations
AVS-300-104	Yes	No	No Variations
AVS-300-105	Yes	No	No Variations
AVS-300-106	Yes	No	No Variations
AVS-300-107	Yes	No	No Variations
AVS-300-108	Yes	No	No Variations
AVS-300-109	Yes	No	No Variations
AVS-300-110	Yes	No	No Variations
AVS-300-111	Yes	No	No Variations
AVS-300-112	Yes	No	No Variations
AVS-300-113	Yes	No	No Variations
AVS-300-114	Yes	No	No Variations
AVS-300-115	Yes	No	No Variations
AVS-300-116	Yes	No	No Variations
AVS-300-117	Yes	No	No Variations
AVS-300-118	Yes	No	No Variations
AVS-300-119	Yes	No	No Variations
AVS-300-120	Yes	No	No Variations
AVS-300-121	Yes	No	No Variations
AVS-300-122	Yes	No	No Variations
AVS-300-123	Yes	No	No Variations
AVS-300-124	Yes	No	No Variations
AVS-300-125	Yes	No	No Variations
AVS-300-126	Yes	No	No Variations
AVS-300-127	Yes	No	No Variations
AVS-300-128	Yes	No	No Variations
AVS-300-129	Yes	No	No Variations
AVS-300-130	Yes	No	No Variations
AVS-300-131	Yes	No	No Variations
AVS-300-132	Yes	No	No Variations
AVS-300-133	Yes	No	No Variations
AVS-300-134	Yes	No	No Variations
AVS-300-135	Yes	No	No Variations
AVS-300-136	Yes	No	No Variations
AVS-300-137	Yes	No	No Variations
AVS-300-138	Yes	No	No Variations
AVS-300-139	Yes	No	No Variations
AVS-300-140	Yes	No	No Variations
AVS-300-141	Yes	No	No Variations
AVS-300-142	Yes	No	No Variations
AVS-300-143	Yes	No	No Variations
AVS-300-144	Yes	No	No Variations
AVS-300-145	Yes	No	No Variations
AVS-300-146	Yes	No	No Variations
AVS-300-147	Yes	No	No Variations
AVS-300-148	Yes	No	No Variations
AVS-300-149	Yes	No	No Variations
AVS-300-150	Yes	No	No Variations

NOTE 1—Use #1011 Top Mount and #10110 Base and #10110 Assembly.
NOTE 2—Use #10110 Base.
NOTE 3—Use #10110 Base Assembly, #10110 Top Mount and #10110 Base.
NOTE 4—Use #10110 Base and #10110 Top Mount.
NOTE 5—Use #10110 Top Mount and #10110 Base and #10110 Assembly.
NOTE 6—Use #10110 Top Mount and #10110 Base.
NOTE 7—Use #10110 Top Mount and #10110 Base and #10110 Assembly.
NOTE 8—Use #10110 Top Mount and #10110 Base and #10110 Assembly.
NOTE 9—Use #10110 Top Mount and #10110 Base and #10110 Assembly.
NOTE 10—Use #10110 Top Mount and #10110 Base and #10110 Assembly.