CLINTON ENGINES CORPORATION

SERIES
494
LONG LIFE CAST IRON
3.5 HP

Model	Starter	PTO Shaft	Net Wt.
494-0101	E-Z Pull Recoil	Bronze Bearing	43 lbs.
494-0301	E-Z Pull Recoil	Ball Thrust Bearing	43 lbs.
494-0161	E-Z Pull Recoil	6 to 1 Speed Reducer	49 lbs.

GENERAL SPECIFICATIONS

Bore: 2% inches Stroke: 1% inches

Piston Displacement: 8.3 cubic inches

Type: Single cylinder, L-Head, air-cooled, 4-cycle.

Air Cooling: Large capacity curved vane blower cast integral with flywheel. Air passes through deep fins to maintain correct operating temperature. Rotating blower screen.

Ignition: Very high voltage at low speed. Built-in flywheel magneto for faster starting. Moisture and dust proof with fully enclosed ignition points.

Spark Plug: 14 mm

Lubrication: Splash type — oil capacity 1¼ pints. Oil drainage permitted from either side of base

Carburetor: Full float feed with idle and high power mixture adjustment.

Fuel Tank: Three-quart capacity, with gasoline strainer and shut-off valve.

Air Cleaner: Oil bath type.

Governor: Adjustable mechanical type, running

Governor Control: Fixed speed setting. Variable speed control optional with provisions for mounting control cable.

Cylinder and Crankcase: Close-grained alloy iron cylinder block and crankcase with large amount of cooling area for efficient operation.

Crankcase Breather: Maintains a vacuum in crankcase and prevents oil leaks.

Cylinder Head: Aluminum alloy, with extra deep cooling fins. Removable.

Main Bearings: Models 494-0101 and 494-0161 have bronze bearings on power take-off end. Model 494-0301 has ball thrust bearing at power take-off end. Bronze bearings on flywheel end, all models.

Crankshaft: Ductile iron. Counterweights and cam drive gear integral with shaft.

Connecting Rod: I-Beam, aluminum alloy with extra large bearings.

Piston: Aluminum alloy. Clinton-engineered for efficient combustion.

Piston Rings: Two compression and one oil control. Treated surfaces.

Valves: Forged steel. Exhaust valve provided with heat-resistant alloy head.

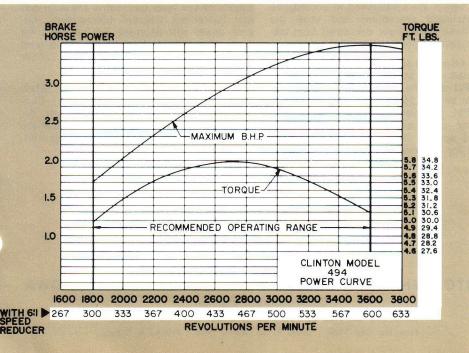
Valve Tappets: Hardened and ground.

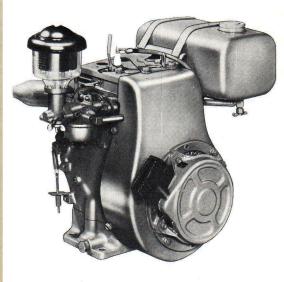
Muffler: Efficient, low back-pressure type.

Direction of Rotation: Counter-clockwise, viewed from power take-off side.

Gear Reduction: Model 494-0161 only has an internal reduction gear, 6 to 1 ratio. Rotation counter-clockwise.

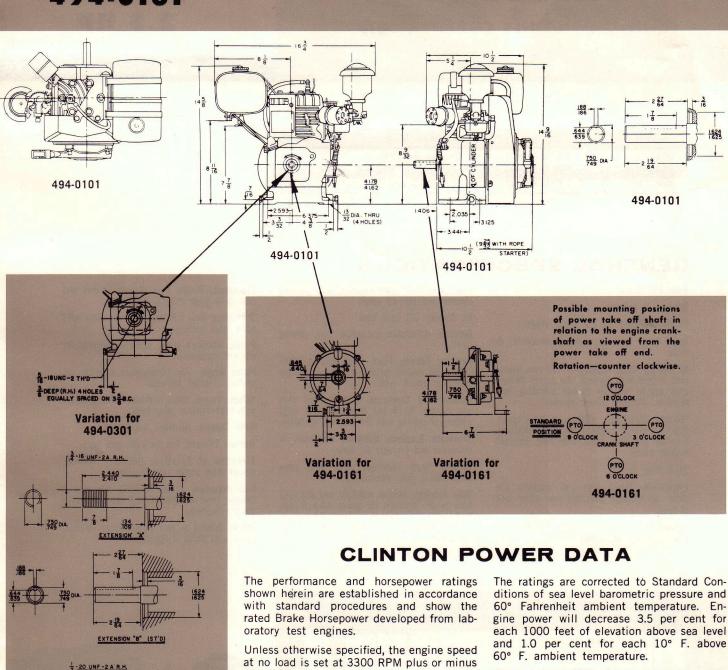
Finish: Painted in gray heat-resistant enamel. Prime coat finish if specified.





Clinton Engines 494-0101 494-0301 494-0161

Dimensional Specifications



Unless otherwise specified, the engine speed at no load is set at 3300 RPM plus or minus 100 RPM and the engine idle speed at no load is set at 1500 RPM plus or minus 100 RPM. Complete details of installations requiring operation at other than recommended speeds should be referred to the factory for approval.

1.624

NO.6 WOODRUFF KEYSEAT

5 - 24 UNF-28 x 50 DEEP

EXTENSION "C"

TAPER 2 4 PER FOOT

Crankshaft variations

for 494-0301

Allow at least 20% of horsepower for safety factor under continuous operation. Clinton Engines Corporation will supply detailed prints upon request. Specifications and Dimensions are subject to change without notice.



CLINTON ENGINES CORPORATION . MAQUOKETA, IOWA

Cable Address: Engines

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