

# CLINTON ENGINES CORPORATION . MAQUOKETA, IOWA 52060

TWX 319-641-1104 . PHONE AREA 319 652-2411

February 20, 1969

# Gentlemen:

The time of year is rapidly approaching where sales are lost due to late engine delivery. Clinton can save these sales for you by offering prompt delivery of engines which are interchangeable with engines you may presently be using.

Many of our engines can be delivered from inventory which we maintain at all times or should you require special built engines, delivery would range between 30 and 60 days after receipt of a confirmed order. Enclosed please find specifications and prices covering some of the engines we manufacture. Should you require any additional information please contact the writer.

Let Clinton help you finalize that sales by meeting your delivery requirements with engines that will more than fulfill your required standards and specifications.

Sincerely,

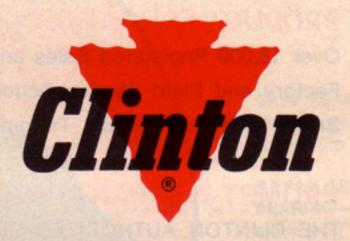
CLINTON ENGINES CORPORATION

Vice President

DLM/1o

**Enclosure** 

# SQUENCE OF THE PROPERTY OF THE



# SERVICE IS EVERYWHERE

around the clock around the corner around the world



# **PARTS AVAILABILITY**

Genuine Replacement Parts at 56 Strategically Located Central Warehouses.

\*900 Authorized Servicing Distributors, \*10,000 Authorized Servicing Dealers.

Pre-season Stocking Programs to Guarantee Parts When Needed.

Standardization of parts to insure availability regardless of engine age.

\*U.S. and Canada

# PRODUCT EDUCATION

Over 16,000 Registered Sales and Service Manual Holders.
Factory and Field Service Schools.
Brand New Audio-Visual Training Program.

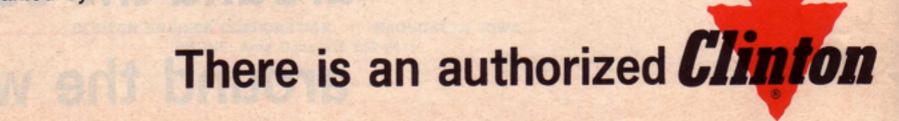
# PROMPT WARRANTY HANDLING

THE CLINTON AUTHORIZED SERVICE DEALER AGREEMENT RESPONSIBILITIES

The Clinton authorized Service outlet agrees to provide prompt service under the terms of Clinton's warranty policy. Such service is to be provided without prejudice or regard to make of equipment being powered.

The Clinton authorized Service outlet further agrees to extend warranty on an unbiased, fair, and efficient basis regardless of who the customer may be.

This will improve both Clinton's and the service agency's business. Failure to meet this service responsibility is in violation of Clinton's service center franchise and will be cause for a recommendation to cancel the agreement. Clinton's warranty policy is designed to be a fair and equitable arrangement between Clinton and its authorized service outlet. A profit on parts is accompanied by a liberal flat rate reimbursement.

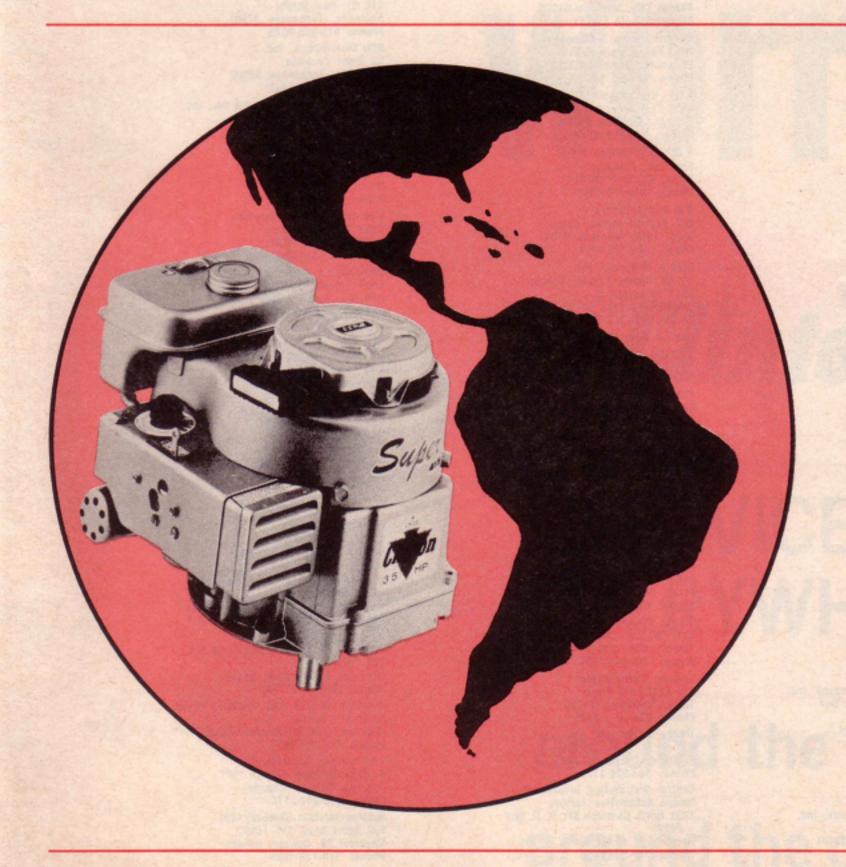




# in the powerful world of Clinton engines

# SERVICE IS EVERYWHERE

Clinton service is unsurpassed in all the world, with over 10,000 service centers in the United States and over 4,000 in 101 foreign countries. Clinton's franchised service centers are staffed with factory trained, competent personnel and carry complete stocks of replacement parts to effect repairs without delay. Clinton's broad coverage provides the most convenient small engine service in the world today for over 15 million Clinton engines.



IRON HEART—Cast iron cylinder sleeve gives Clinton twice the engine life of soft-bore engines.

REPLACEABLE BRONZE TOP BEARING—Factory installed for extra long engine life.

AUTOMOTIVE-TYPE FLOAT CARBURETION—Fast, sure starts.
Uniform performance under all conditions.

FULL ONE-INCH CRANKSHAFT— Now 38% stronger. Made of ductile iron to resist shock.

effort required with special contour cam. Up to 75% with compression release cam.

service dealer near you ... see next page ...



# CENTRAL WAREHOUSE DISTRIBUTORS

(Alphabetically By States)

These franchised firms carry extensive stocks of genuine Clinton engine parts. Contact them for name and address of nearest Service Distributor for replacement parts you need.

Auto Electric & Carburetor Company 2625-4th Avenue, South Birmingham, Alabama 35201 Phone: 205-323-7113

Charlie C. Jones Battery & Electric Co. 2440 West McDowell Road, P. O. Box 6654

Phoenix, Arizona 85005 Phone: 213-RI 9-4161

J. F. Dixon Company 1835 South Hope Street Los Angeles, California 90015 Phone: 213-RI 9-4161

Bee Tee Engine Sales, Inc. 2424 Teagarden Street San Leandro, California 94577 Phone 415-483-4470

Central Auto Electric Company 1171 Lincoln Street Denver, Colorado 80203 Phone: 303-292-6363

Roberts Brothers Company 6035 Blair Road, N. W. Washington, D. C. 20011 Phone: 202-291-7800

Patten Sales Company 1021 Hogan Street Jacksonville, Florida 32201 Phone: 904-354-6833

Patten Sales Company 1631 North Franklin P. O. Box 2460 Tampa, Florida 33601 Phone: 405-235-5869

Auto Electric of Georgia, Inc. 460 Decatur Street, S. E. Atlanta, Georgia 30312 Phone: 404-524-8811

Illinois Auto Electric Company 2001-37 Indiana Avenue Chicago, Illinois 60616 Phone: 312-CA 5-4444

Midwest Engine Warehouse 1905 South Michigan Avenue Chicago, Illinois 60616 Phone: 312-842-2828

**Equipment Service Company** 727 North Illinois Street Indianapolis, Indiana 46204 Phone: 317-ME 5-4563

Lally's, Inc. 118-4th Street Des Moines, Iowa 50309 Phone: 515-244-7118

Borbein, Young & Company 925 North Mosley Avenue Wichita, Kansas 67214 Phone: 316-AM 5-1695

Parts Distributors, Inc. Lisle Road, P. O. Box 29 Lexington, Kentucky 40501 Phone: 606-254-2323

Southern Specialty Sales Company, Inc. 617 North Broad Avenue, P.O. Box

New Orleans, Louisiana 70119 Phone: 504-HU 6-6101 Yerxa's, Inc.

740 Broadway South Portland, Maine 04106 Phone: 207-799-2241 Springfield Auto Electric Service, Inc. 50 Carew Street Springfield, Massachusetts 01104

Phone: 413-788-9605

Auto Electric & Service Corporation 15550 Woodrow Wilson Detroit, Michigan 48238 Phone: 313-883-4200

**Engine Parts Supply Company** 1220-1224 Harmon Place Minneapolis, Minnesota 55403 Phone: 612-338-7086

Kerr Wholesale-Parts Division 3607 Livingston Road, P. O. Box 4207 Jackson, Mississippi 39216 Phone: 601-366-6421

Electrical & Magneto Service Company 1600 Campbell

Kansas City, Missouri 64108 Phone: 816-HA 1-3711 Borbein, Young & Company 3663 Forest Park Avenue St. Louis, Missouri 63108

Phone: 314-JE 3-2013 A & I Distributors 3517 - 1st Avenue, South Billings, Montana 59101 Phone: 406-252-4609

A & I Distributors 610 East Platinum Butte, Montana 59701 Phone: 406-723-4389

A & I Distributors 807 Second Street, South Great Falls, Montana 59401 Phone: 406-453-4314

Carl A. Anderson, Inc. % Air Cooled Engine Division 1517 Jones Street Omaha, Nebraska 68102 Phone: 402-345-9400

Central Auto Electric 808-2nd Street, N. W. Albuquerque, New Mexico 87101 Phone: 505-Chapel 7-0185

Perspex Corporation 980 Alabama Avenue Brooklyn, New York 11207 Phone: 212-NI 9-8181

Harmon Automotive Corporation 16-18 Charlotte Street Rochester, New York 14607 Phone: 716-232-2360

E. J. Smith & Sons Company 1041 Hawthorne Lane Charlotte, North Carolina 28201 Phone: 704-333-4141

Rott-Keller Supply Company 1443 Main Avenue Fargo, North Dakota 58103 Phone: 701-AD 5-0563

Toledo Auto Electric, Inc. 1717 Monroe Street, Box 737 Toledo, Ohio 43624 Phone: 419-243-7104 Empco, Incorporated

Tulsa, Oklahoma 74120 Phone: 918-LU 5-8269 Tracey & Company, Inc. 937 N. W. Glisan Street Portland, Oregon 97209

814 East First Place

Phone: 503-226-1111 Central Distributing Division of United Automotive Service 1831 North Cameron St., P. O. Box

2629

Harrisburg, Pennsylvania 17105 Phone: 717-238-8995

McCullough Distributing Company, Inc. 1110 Germantown Avenue Philadelphia, Pennsylvania 19123 Phone: 215-WA 5-4511

Wilcox Brothers Company 5157 Liberty Avenue Pittsburgh, Pennsylvania 15224 Phone: 412-682-6747

Locke Auto Electric Service 525 North Dakota Avenue, P. O. Box 1165 Sioux Falls, South Dakota 57101

Phone: 605-336-2780 Harris Rim & Wheel, Inc. 415 St. Paul Street Knoxville, Tennessee 37901 Phone: 615-525-9575

RCH Distributors, Inc. 92 West Carolina Memphis, Tennessee 38102 Phone: 901-525-6447

Automobile Electric Service Co., Inc. 1008 Charlotte Avenue Nashville, Tennessee 37203 Phone: 615-255-7515

The Motor Mart 2116 Cockrell Avenue Dallas, Texas 75215 Phone: 214-HA 8-8331

Wes Kern's Repair Service 1533 Bassett Avenue El Paso, Texas 79901 Phone: 915-532-2455 Distributor's Center 1409 Telephone Road Houston, Texas 77023 Phone: 713-WA 3-5979

A-1 Engine & Mower Parts 437 East 9th South Salt Lake City, Utah 84111 Phone: 801-364-3653

Fremont Electric Company 744 North 34th Street Seattle, Washington 98103 Phone: 206-ME 3-2323

Baker Equipment Engineering Co., Inc. 404 Morris Street Charleston, West Virginia 25327 Phone: 304-344-3441

# CANADIAN

Loveseth, Ltd. 10180-105th Street Edmonton, Alberta, Canada Phone: 403-GA 4-5171 Auto Electric Service (Pacific) Ltd. 1025 Howe Street Vancouver, British Columbia, Canada Phone: 604-MU 2-5241 or MU 5-8111 Air Cooled Engine Division Auto Electric Service (Western) Ltd. 193 Fort Street Winnipeg 1, Manitoba, Canada Phone: 204-WH 2-7331 Robert K. Buzzell, Ltd., Powered Equip. 65 Pacific Avenue Moncton, New Brunswick, Canada Phone: 506-389-9617 Jos. St. Mars Eastern, Ltd. 67 Colville Road, Station "W" Toronto, Ontario, Canada Phone: 416-247-2174 Autolec Services (Quebec) Ltd. 200 Bates Road, 1st. Floor Montreal 26, Quebec, Canada Phone: 514-739-5539

CLINTON ENGINES CORPORATION . MAQUOKETA, IOWA PHONE: Area Code 319 652-2411

| Model    | Starter         | PTO Shaft            | Net Wt. |
|----------|-----------------|----------------------|---------|
| 400-0105 | E-Z Pull Recoil | Bronze Bearing       | 24 lbs. |
| 400-0305 | E-Z Pull Recoil | Ball Thrust Bearing  | 24 lbs. |
| 400-0165 | E-Z Pull Recoil | 6 to 1 Speed Reducer | 30 lbs. |

Bore: 2% inches.

Stroke: 1% Inches

line strainer.

Piston Displacement: 7.2 cubic inches. Type: Single cylinder, L-Head, air-cooled,

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 150 pints. Oil drainage permitted from either

side of base. Carburetor: Full float feed with idle and high power mixture adjustment. Fuel Tank: One-quart capacity, with gasoAir Cleaner: Washable high efficiency ailed non-spill MICRO-SEAL® element.

Governor: Adjustable pneumatic type. Governor Control: Adjustable, combined with choke. Provision for mounting remote control cable.

Cylinder and Crankcase: Die-cast aluminum alloy with large amount of cooling area. A close-grained iron cylinder sleeve is cost

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

Cylinder Head: Aluminum alloy, with extra deep cooling fins. Removable Main Bearings: Models 400-0105 and 400-0165 have replaceable bronze sleave bearings at power take-off and flywheel ends. Model 400-0305 has ball thrust bear-

ing on power take-off end. Bronze bearing on flywheel end, all models. Crankshaft: High strength ductile iron. Counterweights and cam drive gear integral

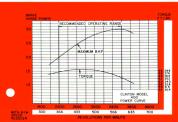
with shaft. Connecting Rad: I-Beam, aluminum alloy with extra large bearings. Piston: Aluminum alloy. Clinton-engineered

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 Seats: Alloy inserts.

Valve Tappets: Hardened and around. Muffler: Efficient, low back-pressure type. Direction of Rotation: Counterclockwise, viewed from power take-off side Gear Reduction: Model 400-0165 only has

internal reduction gear, 6 to 1 ratio. Rotation, counterclockwise. Finish: Painted in red heat-resistant enamel. Prime coat finish if specified.

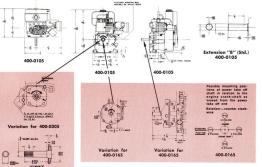




CHENDON WORK

Crankshaft Variations 400-0305

### **Dimensional Specifications**



### CLINTON POWER DATA

The performance and horsepower ratings shown herein are established in accordance with standard procedures and show the rated Brake Horsepower developed from laboratory test engines.

Unless otherwise specified, the engine speed of no load is set at 3600 RPM plus or must 200 RPM and the engine idle speed at no load is set at 1400 RPM plus or misus 200 RPM. Complete details of installations requiring operation at other than recommended speeds should be referred to the factory for approval.

The ratings are corrected to Standard Conditions of sea level barometric pressure and 60° Fahrenheit ambient temperature. Engine power will decrease 3.5 per cent for each 1000 feet of elevation above sea level and 1.0 per cent for each 10° F. above 60° F. ambient temperature.

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

Reliable service at 12,000 Clinton Service Centers Form No. OEM-1120 \* Straus P. Co. March 1968 \* Printed in U.S.A.

| 404-0104 E-Z Pull Recoil Bron | ze Bearing 24½ lbs       |
|-------------------------------|--------------------------|
| 404-0304 E-Z Pull Recoil Ball | Thrust Bearing 241/2 lbs |

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 curve vane blower cast integral with flywheel. Air posses through deep fins to maintain correct operating temperature. Rotating blower streen

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

Spork Plug: 14 mm. Lubrication: Splash type - oil capacity 11/4 pints. Oil drainage permitted from either side of base.

Carburetor: Full float feed with idle and high power mixture adjustment. Fuel Tank: Two-quart capacity with fuel shut-off valve.

Air Cleaner: High efficiency oiled non-spill MICRO-SEAL element.

Governor: Adjustable pneumatic type. Governor Control: Shipped fixed speed. Provision for variable speed with use of

remote control cable. Cylinder and Crankcase: Die-cost aluminum alloy with large amount of cooling area. A close-grained iron cylinder sleeve is cost

Crankcase Breather: Maintains a vacuum in crankrase and prevents all leaks. Cylinder Head: Aluminum alloy, with extra deep cooling fins. Removable. Main Bearings: Models 404-0104 and 404-0164 have replaceable bronze sleeve

bearings at power take-off end. Model 404-0304 has ball thrust bearing on power take-off end. Bronze bearings on flywheel end, all models. Crankshaft: High strength ductile iron. Counterweights and cam drive gear integral with shaft

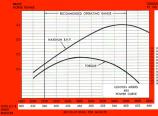
Connecting Rod: I-Beam, aluminum alloy with extra large bearings. Piston: Aluminum alloy. Clinton-engineered for efficient combustion.

Piston Rings: Two compression and one oil control. Treated surfaces. Valves: Forged steel. Exhaust valve pro-

vided with heat-resistant alloy head. Valve Tappets: Hardened and around. Valve Seats: Alloy Inserts.

Muffler: Efficient, low back-pressure type. Direction of Rotation: Counterclockwise, viewed from power take-off side. Gent Reduction: Model 404.0164 only has internal reduction gear, 6 to 1 ratio. Ratation, counterclockwise.

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





### Clinton Engines 404-0104 404-0304 404-0164

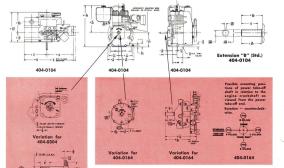
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Crankshaft variations

for 404-0304

### **Dimensional Specifications**



### CLINTON POWER DATA

The performance and horsepower ratings shown herein are established in accordance with standard procedures and show the rated Brake Horsepower developed from laboratory test engines.

Unless otherwise specified, the engine speed at no load is set at 3600 RPM plus or minus 200 RPM and the engine idle speed at no load is set at 1400 RPM plus or minus 200 RPM. Complete details of installations requiring operation at other than recommended speeds should be referred to the factory for approval. The ratings are corrected to Standard Conditions of sea level barometric pressure and 60° Fahrenheit ambient temperature. Engine power will decrease 3.5 per cent for each 1000 feet of elevation above sea level and 1.0 per cent for each 10° F. abbient temperature.

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
Reliable service at 12,000 Clinton Service Centers
Form No. OEM-1149 \* Streus P. Co. March 1968 \* Printed in U.S.A.

| Model    | Starter         | PTO Shaft            | Net Wt.    |
|----------|-----------------|----------------------|------------|
| 410-0105 | E-Z Pull Recoil | Bronze Bearing       | 241/2 lbs. |
| 410-0305 | E-Z Pull Recoil | Ball Thrust Bearing  | 241/2 lbs. |
| 410-0165 | E-Z Pull Recoil | 6 to 1 Speed Reducer | 31 lbs.    |

Bore: 2½ inches. Stroke: 1% inches.

Piston Displacement: 9.2 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 firs to maintain carrect 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 1½ pints. Oil drainage permitted from either side of base.

Carburetor: Full float feed with idle and high power mixture adjustment. Fuel Tank: Two-quart capacity with fuel shut-off valve. Air Cleaner: High efficiency oiled non-spill MICRO-SEAL® element.

Governor: Adjustable pneumatic type.

Governor Control: Shipped fixed speed. Provision for variable speed with use of remote control cable. Cylinder and Crankcase: Die-cost aluminum

alloy with large amount of cooling area.
A close-grained iron cylinder sleeve is cast in block.
Crankcase Breather: Maintains a vacuum in crankcase and prevents all leaks.

Cylinder Head: Aluminum alloy, with extra deep cooling fins. Removable. Main Bearings: Models 410-0105 and

410-0165 have replaceable bronze steve bearings at power take-off end. Model 410-0305 has ball thrust bearing on power take-off end. Bronze bearings on flywheel end, all models. Crankshaft: High strength dustile iron. Counterweights and cam drive gear integral with shaft.

Connecting Red: I-Beam, aluminum alloy with extra large bearings. Piston: Aluminum alloy. Clinton-engineered

for efficient combustion.

Pisten 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. Valve Seats: Alloy inserts.

Muffler: Efficient, low back-pressure type.
Direction of Rotation: Counterclockwise, viewed from power take-off side.
Gear Reduction: Model 410-0165 only has internal reduction gear, 6 to 1 ratio. Rota-

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

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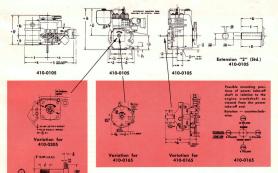




Crankshaft variations

for 410-0305

### **Dimensional Specifications**



### CLINTON POWER DATA

The performance and horsepower ratings shown herein are established in accordance with standard procedures and show the rated Brake Horsepower developed from laboratory test engines.

Unless otherwise specified, the engine speed of no load is set at 3600 RPM plus or minus 200 RPM and the engine idle speed at no load is set at 1400 RPM plus or minus 200 RPM. Complete details of installations requiring operation at other than recommended speeds should be referred to the factory for approval.

The ratings are corrected to Standard Conditions of sea level barometric pressure and 60° Fahrenheit ambient temperature. Engine power will decreess 3.5 per cent for each 100 feet of elevation above sea level and 1.0 per cent for each 10° F. above 60° F. ambient temperature.

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

Reliable service at 12,000 Clinton Service Centers Form No. OEM-1764 \* Straus P. Co. June 1968 \* Printed in U.S.A.

| Model    | Starter | PTO Shaft      | Net Wt. |
|----------|---------|----------------|---------|
| 412-1004 | Rope    | Bronze Bearing | 65 lbs. |
| 412-1304 | Rope    | Roller Bearing | 65 lbs. |
|          |         |                |         |

Bore: 211/4 inches

Stroke: 2½ inches.
Piston Displacement: 15.5 cubic inches.
Type: Single cylinder, L-Head, air-cooled,

4-cycle.

Air Cooling: Large capacity curved vane blower cost integral with flywheel. Air passes through deep fins to maintain correct

operating temperature. Rotating blower screen. Ignitisen: Very high voltage at low speed. Built-in flywheel magneto for faster starting. Moisture and dust proof with fully enclosed

Maisture and dust proof with fully enclosed ignition points.

Spark Plug: 14 mm.

Lubrication: Splash type — oil capacity

2% pints. Automotive type dipstick.

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

Fuel Tank: Five-quart rapacity, with gasoline strainer and shut-off valve.

Air Cleaner: Oil both type. Governor: Adjustable mechanical type, running in oil.

Governor Control: Adjustable, combined with chake. Provisions for mounting remote control cable. Cylinder and Crankcase: Shell-molded

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

Crankcase Breather: Maintains a vacuum

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

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

Main Bearings: Model 412-1000 has re-

placeable bronze bearings on power takeoff and on flywheel and. Models 412:300 and 412:1360 have high load capacity tapered roller bearings on both power take-off and flywheel ends, with thrust as well as radial load ability. Adjustment provisions for wear. Crankshaft: High strength ductile iron. Counterweights and cam drive gear integral with shaft. Connecting Rod: I-Beam, aluminum alloy

with extra large bearings.

Piston: Aluminum alloy, extended skirt for langer ring life. Treated surface.

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

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

Valve Tappets: Hardened and ground.
Muffler: Efficient, low back-pressure type.
Direction of Rotation: Counterclockwise,
viewed from power take-off side.
Gear Reduction: Model 412-1360 only has

internal reduction gear, 6 to 1 ratio. Ratation counterclockwise.

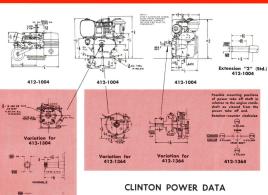
Finish: Painted in red heat-resistant enamel.

Prime coat finish if specified.





### Dimensional Specifications



The performance and horsepower ratings shown herein are established in accordance with standard procedures and show the rated Brake Horsepower developed from laboratory test engines.

Unless otherwise specified, the engine speed at no load is set at 2900 RPM plus or minus 100 RPM and the engine idle speed at no load is set at 1200 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.

The ratings are corrected to Standard Conditions of sea level barometric pressure and 60° Fahrenheit ambient temperature. Engine power will decrease 3.5 per cent for each 1000 feet of elevation above sea level and 1.0 per cent for each 10° F. above 60° F. ambient temperature.

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

Reliable service at 12,000 Clinton Service Centers Form No. OEM-1126 . Straus P. Co. March 1968 . Printed in U.S.A.



# Clinton CLINTON ENGINES CORPORATION

SERIES 414 LONG LIFE CAST IRON 7.5 HP

| Model    | Starter | PTO Shaft             | Net Wt. |
|----------|---------|-----------------------|---------|
| 414-1301 | Rope    | Roller Thrust Bearing | 87 lbs. |
| 414-1361 | Rope    | 6 to 1 Speed Reducer  | 93 lbs. |

### GENERAL SPECIFICATIONS

Bore: 21% Inches. Stroke: 2% inches. Piston Displacement: 16.3 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. Ignition: Increased spark at starting speed. Breaker points, condenser, radio shielded stop switch and ground wire terminal mounted in box on outside of crankcase for easy servicing. Advanced design magneto elements using Alnico permanent mag-

nets and waterproof molded coil. Spark advance mechanism assembled on com geor automatically retards spark at starting speed and advances spark as engine speed increases. Spark Plug: 14 mm.

Lubrication: Splash type - oil copacity

Carbureter: Concentric float type with idle and high power mixture adjustment. Fuel Tank: Six quarts capacity, with visible gasoline strainer and shut-off valve. Air Cleaner: Oil both type.

Governor: Adjustable mechanical type, running in oil. Governor Control: Fixed speed setting

Variable speed control optional, Cylinder and Crankcase: Close-grained alloy iron cylinder block and crankcase with large amount of cooling area for efficient operation. Reversible oil base.

Crankcase Breather: Maintains a vacuum in crankcase and prevents oil leaks. Cylinder Head: Aluminum alloy, with extra deep cooling fins. Removable. Main Bearings: High load capacity topered

roller bearings with thrust as well as radial load ability. Adjustment provision for wear. Crankshoft: Ductile iron. Counterweights and cam drive gear integral with shaft.

Connecting Rod: I-Beam, aluminum allay with extra large bearings. Piston: Aluminum alloy. Clinton-engineered

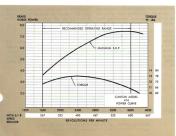
for efficient combustion. Piston Rings: Two compression and one oil control. Treated surfaces.

Valves: Forged steel. Exhaust valve provided with heat-resistant alloy head. Exhaust Valve Seat: Alloy insert, replaceoble.

Valve Stem Guides: Replaceable, inlet and

Valve Tappets: Hardened and ground. Muffler: Efficient type, low back-pressure. Direction of Rotation: Counterclockwise, viewed from power take-off side. Gear Reduction: Model 414-1361 only has internal reduction gear, 6 to 1 ratio. Rotation, counterclockwise.

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





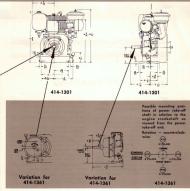
### Clinton Engines

414-1301 414-1361

### **Dimensional Specifications**



Crankshaft variations for 414-1301



### CLINTON POWER DATA

The performance and horsepower ratings shown herein are established in accordance with standard procedures and show the rated Brake Horsepower developed from laboratory test engines.

Unless otherwise specified, the engine speed at no load is set at 2900 RPM plus or minus 100 RPM and the engine idle speed at no load is set at 1200 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.

The ratings are corrected to Standard Conditions of sea level barometric pressure and 60° Fahrenheit ambient temperature. Engine power will decrease 3.5 per cent for each 1000 feet of elevation above sea level and 1.0 per cent for each 10° F. above 60° F. ambient temperature.

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

Reliable service at 12,000 Clinton Service Centers

Form No. OEM-1127 \* Straus P. Co. - March 1968 \* Printed in U.S.A.



SERIES 418 LONG LIFE CAST IRON 8 HP

| i | Model    | Starter | PTO Shaft             | Net Wt.  |
|---|----------|---------|-----------------------|----------|
| • | 418-1301 | Rope    | Roller Thrust Bearing | 89 lbs.  |
| 1 | 418-1361 | Rope    | 6 to 1 Speed Reducer  | 102 lbs. |

### GENERAL SPECIFICATIONS

Bore: 3 Inches Stroke: 2% inches.

Piston Displacement: 18.6 cubic inches. Type: Single cylinder, L-Head, air-cooled,

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

Ignition: Increased spark at starting speed. Breaker points, condenser, radio shielded stop switch and ground wire terminal mounted in box on outside of crankcase for easy servicing. Advanced design magneto elements using Alnico permanent magnets and waterproof molded coil. Spark advance mechanism assembled on cam gear automatically retards spark at starting speed and advances spark as engine speed in-

Spark Plug: 14 mm. Lubrication: Splash type — oil capacity

Carburetor: Concentric float type with idle and high power mixture adjustment, Fuel Tenk: Six quarts capacity, with visible gasoline strainer and shut-off valve. Air Cleaner: Oil both type

Governor: Adjustable mechanical type, run ning in oil. Governor Control: Fixed speed setting. Variable speed control optional.

Cylinder and Crankcase: Close-grained alloy iron cylinder block and crankcase with large amount of cooling area for efficient operation. Reversible oil base. Crankcase Breather: Maintains a vacuum in crankcase and prevents oil leaks.

Cylinder Head: Aluminum alloy, with extra deep cooling fins. Removable. Main Bearings: High load capacity tapered roller bearings with thrust as well as radial

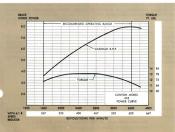
load ability. Adjustment provision for wear. Crankshaft: Ductile iron. Counterweights and cam drive gear integral with shaft.

Connecting Rad: I-Beam, aluminum alloy with extra large bearings. Piston: Aluminum alloy. Clinton-engineered for efficient combustion.

Piston Rings: Two compression and one oil Valves: Forged steel, Exhaust valve provided with heat-resistant alloy head. Exhaust Valve Seat: Alloy insert, replaceoble

Valve Stem Guides: Replaceable, inlet and exhaust.

Valve Tappets: Hardened and ground. Muffler: Efficient type, low back-pressure. Direction of Rotation: Counterclockwise, viewed from power take-off side. Gear Reduction: Model 418-1361 only has internal reduction gear, 6 to 1 ratio. Ratation, counterclockwise. Finish: Painted in gray heat-resistant enamel.





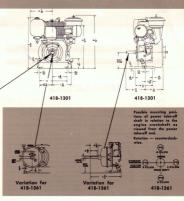
# Clinton Engines 418-1301

### **Dimensional Specifications**





Crankshaft variations for 418-1301



### CLINTON POWER DATA

The performance and horsepower ratings shown herein are established in accordance with standard procedures and show the rated Brake Horsepower developed from laboratory test engines.

Unless otherwise specified, the engine speed at no load is set at 2900 RPM plus or minus 100 RPM and the engine idle speed at no load is set at 1200 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.

The ratings are corrected to Standard Conditions of sea level barometric pressure and 60° Fahrenheit ambient temperature. Engine power will decrease 3.5 per cent for each 1000 feet of elevation above sea level and 1.0 per cent for each 10° F. above 60° F. ambient temperature.

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

Reliable service at 12,000 Clinton Service Centers
Form No. OEM-1128 \* Strays P. Co. - March 1968 \* Printed in U.S.A.



SERIES 420 LONG LIFE CAST IRON

9.6 HP

| Model    | Starter | PTO Shaft             | Net Wt   |
|----------|---------|-----------------------|----------|
| 420-1301 | Rope    | Roller Thrust Bearing | 103 lbs. |
| 420-1361 | Rone    | 6 to 1 Speed Reducer  | 116 lbs. |

### GENERAL SPECIFICATIONS

Bore: 316 inches. Stroke: 3% inches.

Piston Displacement: 25 cubic inches. Type: Single cylinder, L-Head, air-cooled,

Air Cooling: Large capacity, curved vane blower cost integral with flywheel. Air posses through deep fins to maintain correct operating temperature.

Ignition: Increased spark at starting speed. Breaker points, condenser, radio shielded stop switch and ground wire terminal mounted in box on outside of crankcase for easy servicing. Advanced design magneto elements using Alnico permanent magnets and waterproof molded coil. Spark advance mechanism assembled on com gear automatically retards spark at starting speed and advances spark as engine speed in-Spark Plua: 14 mm.

Lubrication: Splash type - oil capacity 5 pints.

Carburetar: Concentric float type with idle and high power mixture adjustment. Fuel Tank: Six quarts capacity, with visible gasoline strainer and shut-off valve. Air Cleaner: Oil both type

Governor: Adjustable mechanical type, running in oil. Governor Control: Fixed speed setting. Variable speed control optional.

Cylinder and Crankcase: Close-grained alloy iron cylinder block and crankcase with large amount of cooling area for efficient operation. Reversible oil base. Crankcase Breather: Maintains a vocuum in crankcase and prevents oil leaks. Cylinder Head: Aluminum alloy, with extra deep cooling fins. Removable. Main Bearings: High load capacity topered roller bearings with thrust as well as radial

load ability. Adjustment provision for wear. Crankshaft: Ductile iron. Counterweights and cam drive gear integral with shaft.

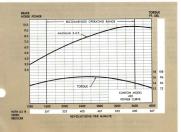
Connecting Rod: I-Beam, aluminum alloy with extra large bearings. Piston: Aluminum allay. Clinton-engineered for efficient combustion.

Piston Rings: Two compression and one ail control. Treated surfaces. Valves: Forged steel, Exhaust valve provided with heat-resistant alloy head. Exhaust Valve Sent: Alloy insert, replaceoble

Valve Stem Guides: Replaceable, inlet and exhaust.

Valve Tappets: Hardened and ground. Muffler: Efficient type, low back-pressure. Direction of Rotation: Counterclockwise, viewed from power take-off side. Gear Reduction: Madel 420-1361 only has internal reduction gear, 6 to 1 ratio. Rota-

Finish: Pointed in gray heat-resistant enamel. Prime coat finish if desired.



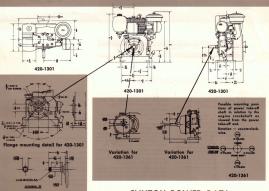


### Clinton Engines 420-1301 420-1361

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Crankshaft variations for 420-1301

### **Dimensional Specifications**



### CLINTON POWER DATA

The performance and horsepower ratings shown herein are established in accordance with standard procedures and show the rated Brake Horsepower developed from laboratory test engines.

Unless otherwise specified, the engine speed at no load is set at 2900 RPM plus or minus 100 RPM and the engine idle speed at no load is set at 1200 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.

The ratings are corrected to Standard Conditions of sea level barometric pressure and 60° Fahrenheit ambient temperature. Engine power will decrease 3.5 per cent for each 1000 feet of elevation above sea level and 1.9 per cent for each 10° F. abbeve 60° F. ambient temperature.

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

Reliable service at 12,000 Clinton Service Centers Form No. OEM-1129 • Straus P. Co. - March 1968 • Printed in U.S.A.

# Clinton

SERIES
422
LONG LIFE CAST IRON
10.3 HP

| Model    | Starter | PTO Shaft             | Net Wt   |
|----------|---------|-----------------------|----------|
| 422-1301 | Rope    | Roller Thrust Bearing | 103 lbs. |
| 422-1361 | Rope    | 6 to 1 Speed Reducer  | 116 lbs. |

### GENERAL SPECIFICATIONS

Bore: 31s inches. Stroke: 31s inches.

Piston Displacement: 25 cubic inches.

Type: Single cylinder, L-Head, air-cooled,

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

Egalism Increased spack at Monling speed, browker points, condenser, rodio shielded stop, switch and ground wire terminal mounted in box on outside of creakcase for easy servicing. Advanced design magnets and waterproof molded coil. Spark and waterproof molded coil. Spark outsmoothing the properties of the outsmoothing the preventing speed and edivences spark as engline speed increases.

Spark Plug: 14 mm.
Lubrication: Splash type — oil capacity

Carburetor: Concentric floot type with idle and high power mixture adjustment. Fuel Teals: Six quarts capacity, with visible gosoline strainer and shut-off valve. Air Cleaner: Oil both type. Georgeone: Adjustable mechanical type, running in oil.

ning in oil.

Governor Control: Fixed speed setting.

Variable speed control aptional.

Cylinder and Crankcose: Close-grained allay iron cylinder black and crankcose

with large amount of cooling area for efficient operation. Reversible oil bose. Crankcase Berether: Mointains a vecusum in crankcase and prevents oil leaks. Cyllinder Heads: Aluminum alloy, with extra deep cooling fins. Removable.

Main Bearings: High load capacity tapered collar bearings: With this well no radial.

roller bearings with thrust as well as radial load ability. Adjustment provision for wear. Crankshaft: Ductile iron. Counterweights and cam drive gear integral with shaft. Connecting Rad: I-Beam, aluminum alloy with extra large bearings.

Piston: Vanacil piston with lower coefficient of expansion reduces friction at higher speed and higher temperature. Piston Rings: Two compression and one oil

control. Treated surfaces.

Valves: Forged steel. Exhaust valve provided with Stellite alloy head.

Exhaust Valve Seat: Stellite insert, replace-

Exhaust Valve Seat: Stellite Insert, replaceable. Valve Stem Guides: Replaceable, inlet and

exhaust.

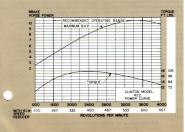
Valve Toppets: Hordened end ground.

Muffler: Efficient, low back-pressure type.

Direction of Retailon: Counterclockwise, viewed from power take-off side.

Gear Reduction: Madel 422-1360 only has internal reduction gear, 6 to 1 ratio. Rota-

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

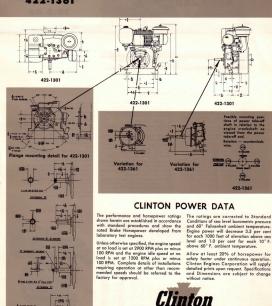




### Clinton Engines 422-1301 422-1361

Crankshaft variations for 422-1301

### **Dimensional Specifications**



Cable Address: Engines Reliable service at 12,000 Clinton Service Centers

CLINTON ENGINES CORPORATION . MAQUOKETA, IOWA Form No. OEM-1130 . Straus P. Co. - March 1968 . Printed in U.S.4.

422-1361

SERIES
. 494
LONG LIFE CAST IRON
3.5 HD

| 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

Bare: 2% inches

Stroke: 1% inches

Piston Displacement: 8.3 cubic inches
Type: Single cylinder, L-Head, air-cooled, 4cycle.

Air Caeling: 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

power mixture adjustment.

Labrication: Splash type — oil capacity 156 pints. Oil drainage permitted from either side of base.

Carbureter: Full float feed with idle and high

Feel Tank: Three-quart capacity, with gasoline strainer and shut-off valve. Air Cleaner: Oil bath type.

Governor: Adjustable mechanical type, running in ail.

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

Cylinder and Craskcase: Close-grained alloy

iron cylinder block and crankosse with large amount of cooling area for efficient operation. Crankosse Breather: Maintains a vacuum in crankosse and prevents oil leaks. Cylinder Head: Alurinum alloy, with extra deep cooling fins. Removable.

Main Bearings: Models 494-0101 and 494-0161 have broaze bearings on power take-off end. Model 494-0301 has ball thrust bearing at power take-off end. Broaze 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.

control. Treated surfaces.

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

Valve Tappets: Hardened and ground.

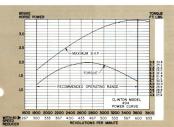
Muffler: Efficient, low back-pressure type.

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

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

counter-clockwise.

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





Clinton Engines 494-0101 494-0301 494-0161

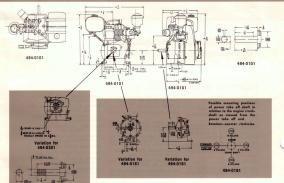
EXTENSION "N" (STO)

40.0 WOODWAY AT 15EAT

Crankshaft variat

-24 NAC-28 - 95 OUT.

### Dimensional Specifications



### CLINTON POWER DATA

The performance and horsepower ratings shown herein are established in accordance with standard procedures and show the rated Brake Horsepower developed from laboratory test engines.

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 100 RPM. Complete details of installations requiring operation at other than recommended speeds should be referred to the factory for approval.

The ratings are corrected to Standard Conditions of sea level barometric pressure and 60° Fahrenheit ambient temperature. Engine power will decrease 3.5 per cent for each 1000 feet of elevation above sea level and 1.0 per cent for each 10° F. above 60° F. ambient temperature.

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
Reliable service at 12,000 Clinton Service Centers

Form No. OEM-1124 \* Straus P. Co. - March 1968 \* Printed in U.S.A.

| Model    | Starter         | PTO Shaft             | Net Wt. |
|----------|-----------------|-----------------------|---------|
| 498-0301 | E-Z Pull Recoil | Roller Thrust Bearing | 47 lbs. |
| 498-0361 | E-Z Pull Recoil | 6 to 1 Speed Reducer  | 52 lbs. |

Bere: 2-15/32 inches

Stroke: 21% inches Piston Displacement: 10.2 cubic inches

Piston Displacement: 10.2 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. Retating blower screen.

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

Moisture and dust proof with fully enclor ignition points. Spark Plug: 14 mm

Spark Ping: 14 mm

Lubrication: Splash type — oil capacity 154
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.

Soverner: Adjustable mechanical type, running

in oil.

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

Cylinder and Crankcase, Close-grained alloy inn ovilinger black and crankcase with large.

amount of cooling area for efficient operation.

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

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

Main Bearings: High load capacity Timken tapered roller bearings with thrust as well as radial load ability. Adjustment provision for wear.

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

Connecting Red: I-Beam, aluminum alloy with

extra large bearings.

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

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

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

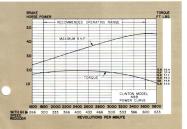
Valve Tappets: Hardened and ground.

Muffler: Efficient, low back-pressure type.

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

Gear Reduction: Model 498-0361 only has internal reduction gear, 6 to 1 ratio. Rotation counter-clockwise.

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





### Clinton Engines 498-0301 498-0361

### Dimensional Specifications

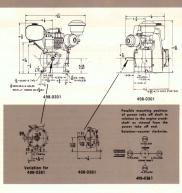












### CLINTON POWER DATA

The performance and horsepower ratings shown herein are established in accordance with standard procedures and show the rated Brake Horsepower developed from laboratory test engines.

Unless otherwise specified, the engine speed at no load is set at 2900 RPM-olpus or must 100 RPM and the engine idle speed at no load is set at 1200 RPM plus or must 100 RPM. Complete details of installations requiring operation at other than recommended speeds should be referred to the factory for approval.

The ratings are corrected to Standard Conditions of sea level barometric pressure and 60° Fahrenheit ambient temperature. Engine power will decrease 3.5 per cent for each 1000 feet of elevation above sea level and 1.0 per cent for each 10° F. above 60° F. ambient temperature.

Allow at least 20% of horsepower for safety factor under continuous operation. Clinion 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
Reliable service at 12,000 Clinton Service Centers

Reliable service at 12,000 Clinton Service Centers Form No. OEM-1125 • Straus P. Co. - March 1968 • Printed in U.S.A.

| Model    | Starter | PTO Shaft            | Net Wt.    |
|----------|---------|----------------------|------------|
| 500-0100 | Recoil  | Bronze Bearing       | 21½ lbs.   |
| 500-0300 | Recoil  | Ball Thrust Bearing  | 21½ lbs.   |
| 500-0160 | Recoil  | 6 to 1 Speed Reducer | 271/2 lbs. |

Bore: 25% inches

Stroke: 1% inches

Piston Displacement: 5.76 cubic inches
Type: Single cylinder, horizontal crankshaft.

air-cooled, 2-cycle.

Air Cooling: Powerful flywheel blower forces strong air blast through deep cooling fins on cylinder and cylinder head to maintain cor-

rect operating temperature. Rotating blower screen.

Ignition: Very high voltage at low speed.

Ruilt-in flywheel magneto for factor starting

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: 14mm

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

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

Fuel Tank: 1½ quarts capacity

Air Cleaner: Washable high efficiency oiled nonsoill polyurethane foam element.

Governor: Adjustable pneumatic type.

Governor Control: Combination fixed and variable speed.

Cylinder and Crankcase: Die-cast aluminum alloy with large amount of cooling area. A closegrained iron cylinder sleeve is cast in block.

Cylinder Head: Integral with cylinder casting.

Main Bearings: 500-0100 and 500-0160 have replaceable bronze sleeve bearings on power takeoff end. Model 500-0300 has ball thrust bear-

ing on power take-off end. Bronze bearings on flywheel end, all models. Crankshaft: Ductile iron. Counterweights inte-

gral with shaft. Bearing surfaces super finished.

Connecting Rod: I-Beam aluminum alloy with

extra large bearings.

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

Piston Rings: Two compression rings.

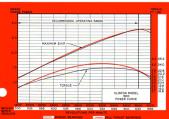
Muffler: Efficient, low back-pressure type.

Direction of Retation: Counter-clockwise, viewed from power take-off side. (Also available in clockwise rotation without governer.)

Gear Reduction: Model 500-0150 only has 6 to 1 ratio. Rotation counter-clockwise.

Finish: Painted in red heat-resistant enamel.

Prime coat finish if specified.

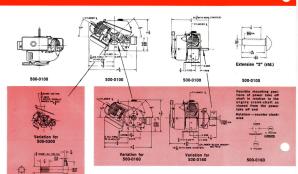




Crankshaft variations

for 500-0300

### **Dimensional Specifications**



### CLINTON POWER DATA

The performance and horsepower ratings shown herein are established in accordance with standard procedures and show the rated Brake Horsepower developed from laboratory test engines.

Unless otherwise specified, the engine speed at no load is set at 3600 RPM plus or minus at no load is set at 3600 RPM plus or minus load is set at 1400 RPM. It is set at 1400 RPM. Complete details of installations requiring operation at other than recommended speeds should be referred to the factory for approval.

The ratings are corrected to Standard Conditions of sea level barometric pressure and 60° Fahrenheit ambient temperature. Engine power will decrease 3.5 per cent for each 1000 feet of elevation above sea level and 1.0 per cent for each 10° F. above 60° F. ambient temperature.

Allow at least 20% of horsepower for safety factor under continuous operation. Clinion 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

Reliable service at 12,000 Clinton Service Centers
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