

Multi-Purpose ENGINE SPECIFICATIONS

INDEX

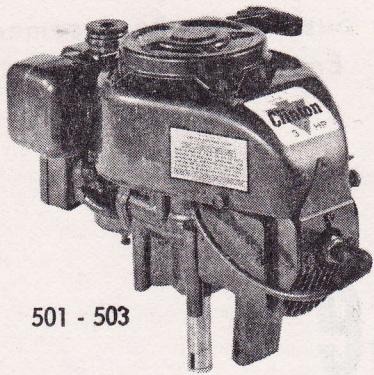
Engines	Page 1
Engine Specifications	Page 2
Two Cycle—Aluminum, <i>Vertical Shaft</i>	Page 3, 5
Two Cycle—Aluminum, <i>Horizontal Shaft</i>	Page 5
Four Cycle—Aluminum, <i>Vertical Shaft</i>	Page 3,4
Four Cycle—Aluminum, <i>Horizontal Shaft</i>	Page 6
Four Cycle—Cast Iron, <i>Vertical Shaft</i>	Page 4, 5
Four Cycle—Cast Iron, <i>Horizontal Shaft</i>	Page 6, 7, 8, & 9
Current Stock Number Listings	Page 10

Engines marked with (*) should be stocked by Central Warehouse Distributors.
Engines marked with (**) should be stocked by Central Warehouse Distributors,
Service Distributors, Engine Distributors, Authorized Service Centers, and Engine
Dealers.

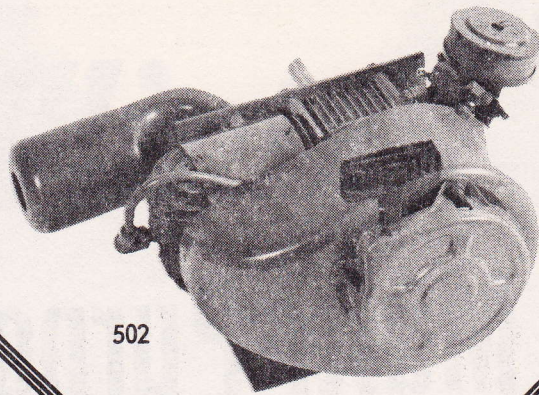
The features and accessories on these multi-purpose, interchangeable engines provides for maximum versatility. They were developed through careful analysis of all air-cooled engines and type of equipment they are used on. Through minor conversion the multi-purpose engines can also be adapted to new applications. Please contact factory for assistance as needed.

Unless otherwise stated, units under 6 H.P. are equipped with recoil starters.

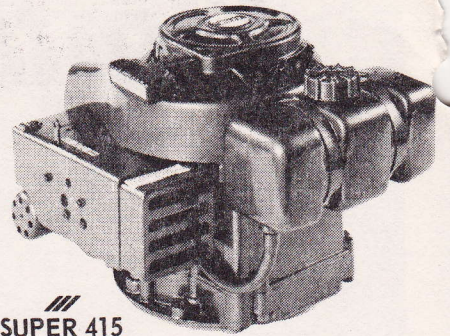
CHOOSE QUALITY... *Clinton* REPLACEMENT ENGINES



501 - 503

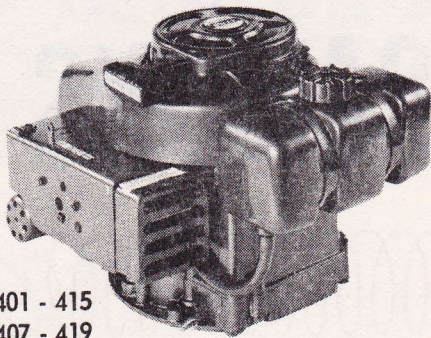


502

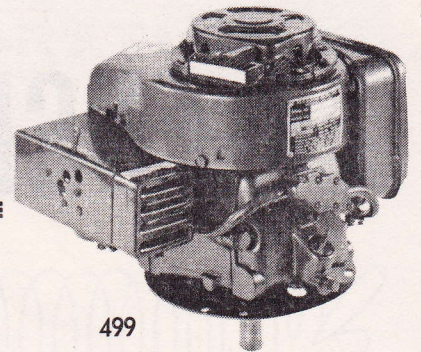


SUPER 415

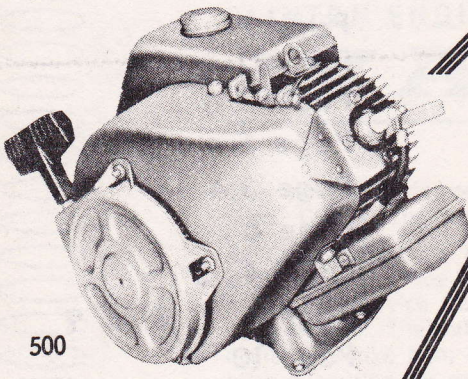
WITH PRIMER - PRIMER NOT SHOWN



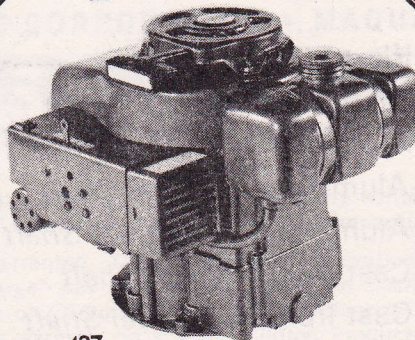
401 - 415
407 - 419



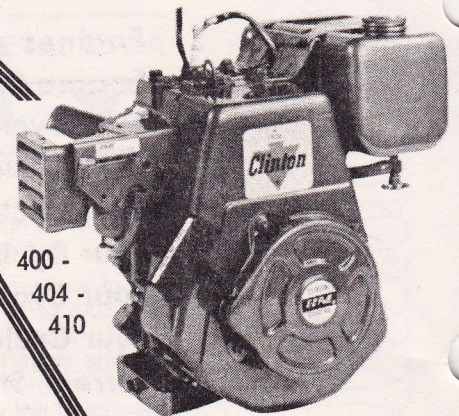
499



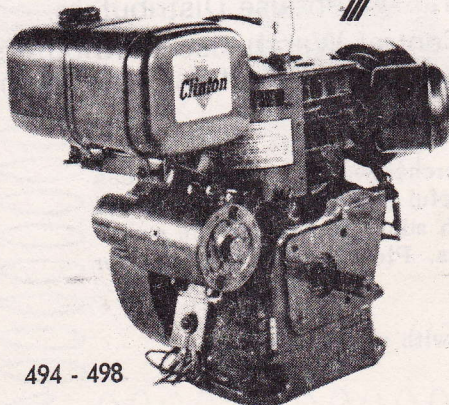
500



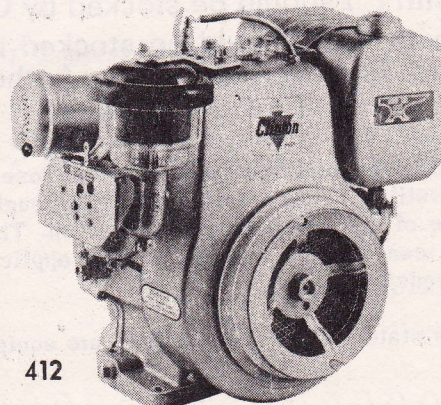
437



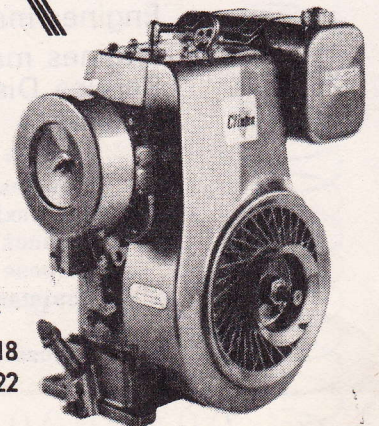
400 -
404 -
410



494 - 498



412



414 - 418
420 - 422

SHOWN WITH ELECTRIC START

NOTE: GENERAL SPECIFICATIONS ON PAGE 2.

Engine Model Numbers Starting With (4) Are 4 Cycle; With (5) Are 2 Cycle . . . Engines With Odd Numbers Have Vertical Shafts, Those With Even Numbers Have Horizontal Shafts.

Std. Model	H. P.	Net Wt.	Fuel Cap. Qts.	Bore	Stroke	Cu. In. Displ.	Std. Crank Dim.
------------	-------	---------	----------------	------	--------	----------------	-----------------

GENERAL SPECIFICATIONS

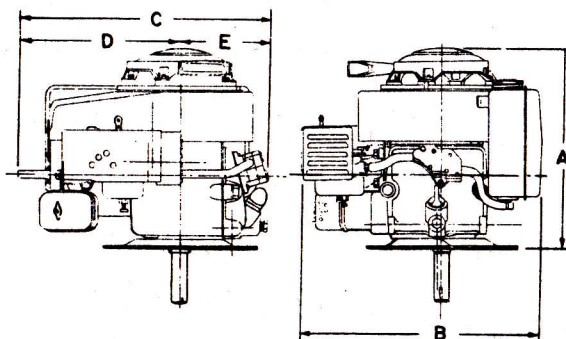
A	B	C	D	E	F	G	H	I
Ht.	Width	Length	Cl. Lt. Top	Cl. Rt. Top	Cl. Base Mtg. L.	Cl. Base Mtg. R.	Crank Shaft Ht.	Base. Mtg. End

ALUMINUM SERIES 2 Cycle

500	2.75	21.5	1.5	2-1/8	1-5/8	5.76	5/8"
501	2.75	15.5	1	2-1/8	1-5/8	5.76	7/8"
502	7.0	22.5		2-3/8	1-3/4	7.75	3/4"
503	7.0	22	1	2-3/8	1-3/4	7.75	3/4"

TYPICAL VERTICAL SHAFT ENGINE

(See A - E For Dimensions of Specific Models)



ALUMINUM SERIES 4 Cycle Vertical Shaft

401	3.0	20	1	2-3/8	1-5/8	7.2	7/8"
415	3.5	20	1	2-3/8	1-7/8	8.3	7/8"
419	4.0	20	1	2-1/2	1-7/8	9.2	7/8"

9.75	14.62	8.906	7.75	7.50	2.593	3.782	4.17	3.125
8.875	9.00	15.625	8.625	7.00	.....	.....	.....	.....
7.375	8.375	15.625	7.9375	5.9375	4.250	2.125	7.375	2.125
8.625	9.00	15.625	8.625	7.00	.....	.....	.....	.....

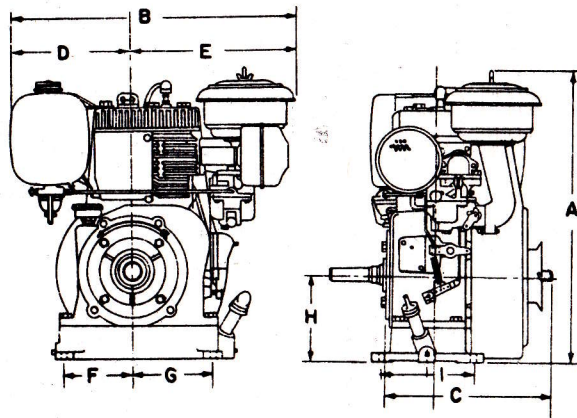
ALUMINUM SERIES 4 Cycle Horizontal Shaft

400	3.0	24	1	2-3/8	1-5/8	7.2	5/8"
404	3.5	25	2	2-3/8	1-7/8	8.3	3/4"
410	4.0	24.5	2	2-1/2	1-7/8	9.2	3/4"

9.375	10.875	12.875	8.75	4.125	.....	.....	.....	.....
9.375	10.875	12.875	8.75	4.125	.....	.....	.....	.....
9.375	10.875	12.875	8.75	4.125	.....	.....	.....	.....
13.5	11.625	8.75	4.125	7.50	2.593	3.781	4.17	3.125
13.125	14.625	8.75	7.125	7.50	2.593	3.781	4.17	3.125
12.406	14.625	8.75	7.125	7.50	2.593	3.781	4.17	3.125

CAST IRON VERTICAL SHAFT

407	3.5	32	2	2-3/8	1-7/8	8.3	7/8"
437	3.5	32	2	2-3/8	1-7/8	8.3	7/8"
499	4.5	42	3	2-15/32	2-1/8	10.2	7/8"



CAST IRON HORIZONTAL SHAFT

494	3.5	43	3	2-3/8	1-7/8	8.3	3/4"
498	4.5	47	3	2-15/32	2-1/8	10.2	3/4"
412	6	66	5	2-13/16	2-1/2	15.5	1"
414	7.5	87	6	2-13/16	2-5/8	16.3	1"
418	8	89	6	3	2-5/8	18.6	1"
420	9.6	103	6	3-1/8	3-1/4	25	1"
422	10.3	103	6	3-1/8	3-1/4	25	1"

TYPICAL HORIZONTAL SHAFT ENGINE

(See A - I For Dimensions of Specific Models)

9.375	10.875	12.875	8.75	4.125	.....	.....	.....	.....
9.375	10.875	12.875	8.75	4.125	.....	.....	.....	.....
11.24	13.75	14.875	9.625	5.25	.....	.....	.....	.....
14.563	16.75	10.50	8.125	8.625	2.593	3.782	4.17	3.125
15.469	17.266	10.50	8.125	9.141	2.594	6.375	4.17	3.125
16.126	17.125	12.00	5.625	3.75	3.562	4.125	5.25	3.375
18.25	19.813	10.844	8.312	11.50	4.437	5.562	5.60	6.125
18.25	19.813	11.375	8.312	11.50	4.437	5.562	5.60	6.125
20.00	20.031	11.547	8.625	11.406	4.875	5.75	6.139	6.25
20.00	20.031	11.547	8.625	11.406	4.875	5.75	6.139	6.25

* Crankshaft diameter is 1" through main bearing. ** Not equipped with tank. Choice of 3/8 qt. or 5 qt. accessory tank.

NOTE: Above specifications based on Standard models. Variations and accessories available.

Specification sheets are available on each Standard model.

Replacement engine stock numbers, crankshaft dimensions and variations are included in the ENGINE SPECIFICATIONS No. E2203.

Refer to Section VII, Division A for Clinton to Clinton Replacement Engine Interchange.

CLINTON ENGINES CORPORATION MAQUOKETA, IOWA

STOCK NUMBER	MODEL NUMBER	CRANK SHAFT NUMBER	CRANKSHAFT DIAMETER & DESCRIPTION	CRANKSHAFT LENGTH (See Note 1)	REMARKS
--------------	--------------	--------------------	-----------------------------------	----------------------------------	---------

- 501 -

TWO CYCLE - ALUMINUM - VERTICAL SHAFT
Standard Color, White

3 Horsepower - Full Float Carburetor - Variable Speed

21401**	501 0001-023	46-35	7/8" Dia. Channel Keyway	3-5/32	8" Mounting Plate Stack Muffler
---------	-----------------	-------	-----------------------------	--------	------------------------------------

- 401 -

FOUR CYCLE - ALUMINUM - VERTICAL SHAFT
Standard Color, White

3 Horsepower - Full Float Carburetor

21409*	401 0000-004	46-361	7/8" Dia. Universal Tapped 3/8-24, 2 W. K. Spotted	3-5/32"	
21410*	401 0000-005	46-150	7/8" Dia. Universal Tapped 3/8-24, 3 W. K.	2-7/16"	
21589**	401 0000-006	46-819	7/8" Dia. Tapped 3/8-24 2 Flats, W. K. Spotted	3-5/32"	

- 415 - - Super 415 -

3-1/2 Horsepower - Full Float Carburetor

21412**	415 0004-005	46-497	7/8" Dia. Universal Tapped 3/8-24 3 W. K. Full Channel Keyway	3-5/32"	
21544*	415 0004-006	46-784	1" Dia. Universal Tapped 3/8-24 3 W. K. Full Channel Keyway	3-5/32"	
21581*	415 0004-009	46-831	7/8" Dia. Tapped 3/8-24 2 Flats W. K. Spotted	3-5/32"	
21591**	415 0004-010	46-497	7/8" Dia. Universal Tapped 3/8-24 3 W. K. Full Channel Keyway	3-5/32"	Heavy Flywheel-Oil Pump Breather Vented to Carb. Rental Replacement. Chrome Rings Heavy Duty Air Cleaner Bronze Brg. PTO End.
21582*	415 0004-004	46-832	7/8" Dia. Tapped 3/8-24 2 W. K.	1-13/16"	Bronze Bearing on PTO End. Heavy Flywheel. Tiller Replacement.
21628*	415 0004-014	46-825	7/8" Dia. Tapped 3/8-24 2 W. K.	2-7/16"	Wards Replacement. Cast Iron Flywheel.
21592**	415 0004-011	46-832	7/8" Dia. Tapped 3/8-24 2 W. K.	1-13/16"	Chrome Rings Heavy Duty Air Cleaner, Bronze Brg. PTO End. Heavy Flywheel. Oil Pump, Tiller Replace- ment.
21413*	415 0014-007	46-813	7/8" Dia. W. K. Tapped 3/8-24	4-1/32"	Auxiliary PTO for Self Pro- pelled Mowers.
21590*	415 0014-008	46-788	7/8" Dia. W. K. Tapped 3/8-24	3-5/32"	Auxiliary PTO for Self Pro- pelled Mowers.
21646*	415 0014-016	46-494	7/8" Dia. Tapped 3/8-24 3 W. K.	2"	8:5 to 1 PTO, CC Rotation Touch & Start Primer Fuel Gauge.

Note 1 The figure shown is the crankshaft length from the mounting surface of the flange

Continued on Page 4

STOCK NUMBER	MODEL NUMBER	CRANK SHAFT NUMBER	CRANKSHAFT DIAMETER & DESCRIPTION	CRANKSHAFT LENGTH (See Note 1)	REMARKS
Continuation of 415 - 3-1/2 Horsepower - Full Float Carburetor					
21647*	415 0014-015	46-497	7/8" Dia. Tapped 3/8-24 1 W. K.	3-5/32"	8:5 to 1 PTO -CC Rotation Touch & Start Primer Fuel Gauge.
21649*	415 0014-017	46-932-500	7/8" Dia. Tapped 3/8-24 3 W. K.	3-5/32"	Oil Pump Primer Fuel Gauge, Extra Oil Capacity Base

- 419 -

4.0 Horsepower - Full Float Carburetor

21637**	419 0004-007	46-497	7/8" Dia. Universal Tapped 3/8-24 3 W. K. Full Channel Keyway	3-5/32"	
21638*	419 0014-004	46-813	7/8" Dia. W. K. Tapped 3/8-24	4-1/32"	Auxiliary PTO for Self Propelled Mowers
21650*	419 0004-005	46-932-500	7/8" Dia. Tapped 3/8-24 3 W. K.	3-5/32"	Cast Iron Flywheel Oil Pump, Extra Oil Capacity Base, Closed Breather.
21651*	419 0014-006	46-497	7/8" Dia. Tapped 3/8-24 1 W. K.	3-5/32"	8:5 to 1 PTO, CC Rotation Touch & Start Primer Fuel Gauge.

- 407 -

FOUR CYCLE - CAST IRON - VERTICAL SHAFT
3-1/2 Horsepower - Full Float Carburetor

21580**	407 0004-006	46-497	7/8" Dia. Universal Tapped 3/8-24 3 W. K. Full Channel Keyway	3-5/32"	
21559*	407 0004-007	46-784	1" Dia. Universal Tapped 3/8-24 3 W. K. Full Channel Keyway	3-5/32"	
21593*	407 0004-005	46-497	7/8" Dia. Universal Tapped 3/8-24 3 W. K. Full Channel Keyway	3-5/32"	Composite Tank Ass'y
21594*	407 0014-004	46-497	7/8" Dia. Universal Tapped 3/8-24 3 W. K. Full Channel Keyway	3-5/32"	Auxiliary PTO for Self Propelled Mowers
21570*	407 0004-008	46-788	7/8" Dia. 1-5/16" Step to 1" Dia. 3 W. K. Tapped 3/8-24	3-5/32"	Composite Tank Ass'y
21648*	407 0004-009	46-932-500	7/8" Dia. Tapped 3/8-24 3 W. K.	3-5/32"	Oil Pump, Extra Oil Capacity Base, Closed Breather, Composite Tank.

Note 1 The Figure shown is the Crankshaft length from the mounting surface of the flange.

STOCK NUMBER	MODEL NUMBER	CRANK SHAFT NUMBER	CRANKSHAFT DIAMETER & DESCRIPTION	CRANKSHAFT LENGTH (See Note 1)	REMARKS
--------------	--------------	--------------------	-----------------------------------	-----------------------------------	---------

- 499 -

4-½ Horsepower - Full Float Carburetor

21528**	499 0004-010	46-1	7/8" Dia. Universal Tapped 3/8-24 3 W. K. Channel Keyway	3-5/32"	
21595*	499 0004-007	46-679	1" Dia. Channel Keyway	3-5/32"	No Muffler Rider Replacement.
21578**	499 0004-009	46-1	7/8" Dia. Universal Tapped 3/8-24 3 W. K. Channel Keyway	3-5/32"	2 Quart Tank
21597*	499 0004-008	46-786	7/8" Dia. 2 W. K.	3-5/32"	Rider Replacement
21596*	499 0004-006	46-439	7/8" Dia. Channel Keyway	1-25/32"	Rider Replacement

- 500 -

TWO CYCLE - ALUMINUM - HORIZONTAL SHAFT

3 Horsepower - Full Float Carburetor

21402**	500 0100-000	46-30	5/8" Dia. Channel Keyway	2-27/64"	
21403*	500 0160-004		3/4" Dia. Channel Keyway	1-31/32"	6:1 Gear Reduction CCW Rotation.
21404**	500 0300-005	46-32	5/8" Dia. Channel Keyway	2-27/64"	Ball Bearing PTO
21548*	500 0300-014	46-32	5/8" Dia. Channel Keyway	2-27/64"	Go-Kart Replacement CCW Viewed from PTO End Rotation.
21549*	500 0300-017	46-32	5/8" Dia. Channel Keyway	2-27/64"	Go Kart Replacement CW Rotation View from PTO End.

- 503 -

2 CYCLE ALUMINUM VERTICAL SHAFT

Standard Color, White

7 Horsepower - Full Float Carburetor

21652*	503 0308-000	46-921	3/4" Dia. Channel Keyway Tapped 3/8-24	2-23/32"	
--------	-----------------	--------	--	----------	--

- 502 -

TWO CYCLE - ALUMINUM - HORIZONTAL SHAFT

Standard Color, White

7 Horsepower - Diaphragm Carburetor

21645*	502 0308-000	46-921	3/4" Dia. Channel Keyway Tapped 3/8-24	3"	
--------	-----------------	--------	--	----	--

Note 1 The Figure shown is the crankshaft length from the mounting surface of the flange.

Note 2 The figure shown is the crankshaft length from the mounting surface of the block or reduction housing.

STOCK NUMBER	MODEL NUMBER	CRANK SHAFT NUMBER	CRANKSHAFT DIAMETER & DESCRIPTION	CRANKSHAFT LENGTH (See Note 2)	REMARKS
--------------	--------------	--------------------	-----------------------------------	---------------------------------	---------

- 400 -

FOUR CYCLE - ALUMINUM - HORIZONTAL SHAFT
3 Horsepower - Full Float, Block Mounted Carburetor

21415*	400 0105-022	46-353	5/8" Dia. Channel Keyway	2-21/64"	
21417**	400 0305-025	46-354	5/8" Dia. Channel Keyway	2-21/64"	Ball Bearing PTO
21600*	400 0305-024	46-483	5/8" Dia. External Thread 5/8-18	2-27/64"	Ball Bearing PTO Pump Replacement

- 404 -

3-1/2 Horsepower - Full Float, Block Mounted Carburetor

21421*	404 0104-257	46-403	3/4" Dia. Channel Keyway	2-21/64"	
21583*	404 0114-256	46-403	3/4" Dia. Channel Keyway	2-21/64"	2:1 Reduction Auxiliary PTO
21422*	404 0164-255		3/4" Dia. Channel Keyway	1-31/32"	6:1 Reduction CCW Rotation
21423**	404 0304-258	46-404	3/4" Dia. Channel Keyway	2-21/64"	Ball Bearing PTO
21655*	404 1164-320		3/4" Dia. Channel Keyway	1-31/32"	6:1 Reduction CCW Rotation 1/4 Midget

- 410 -

4.0 Horsepower - Full Float, Block Mounted Carburetor

21639**	410 0105-013	46-403	3/4" Dia. Channel Keyway	2-21/64"	
21640**	410 0305-014	46-404	3/4" Dia. Channel Keyway	2-21/64"	Ball Bearing PTO
21641*	410 0165-011		3/4" Dia. Channel Keyway	1-31/32"	6:1 Reduction CCW Rotation
21644*	410 0305-020	46-404	3/4" Dia. Channel Keyway	2-21/64"	Mini-Bike Replacement Engine

- 494 -

FOUR CYCLE - CAST IRON - HORIZONTAL
3-1/2 Horsepower - Full Float Carburetor
Mechanical Governor

21444*	494 0101-030	46-609	3/4" Dia. Channel Keyway	2-17/32"	
21571**	494 0101-025	46-609	3/4" Dia. Channel Keyway	2-17/32"	18-6 Ear Base
21441**	494 1101-021	46-275	5/8" Dia. Channel Keyway Tapped 5/16-24	2-17/32"	Rope Starter
21522*	494 1101-022	46-609	3/4" Dia. Channel Keyway	2-17/32"	Rope Starter
21449*	494 0161-134		3/4" Dia. Channel Keyway	1-31/32"	6:1 Reduction CCW Rotation

Note 2 The figure shown is the crankshaft length from the mounting surface of the block or reduction housing.

STOCK NUMBER	MODEL NUMBER	CRANK SHAFT NUMBER	CRANKSHAFT DIAMETER & DESCRIPTION	CRANKSHAFT LENGTH (See Note 2)	REMARKS
Continuation of 494 - 3-1/2 Horsepower - Full Float Carburetor					
21450*	494 0301-040	46-506	5/8" Dia. Channel Keyway	2-27/64"	Ball Bearing PTO
21453**	494 0301-031	46-808	3/4" Dia. Channel Keyway	2-27/64"	Ball Bearing PTO
21560*	494 0301-013	46-808	3/4" Dia. Channel Keyway	2-27/64"	Tank Over Blower Hsg. Go-Kart Replacement
21454*	494 0301-086	46-221	Tapered Tapped 5/16-24	2-13/16"	Ball Bearing PTO Generator Replacement
21452*	494 0301-085	46-220	5/8" Dia. External Threaded 5/8-18	2-27/64"	Ball Bearing PTO Pump Replacement
21609*	494 0301-152	46-75	3/4" Dia. External Threaded 3/4-16	2-27/64"	Ball Bearing PTO Pump Replacement
21455*	494 0301-087	46-69	Stepped W. K. Threaded 1/2-20	2-19/32"	Ball Bearing PTO
21616*	494 1301-050	46-506	5/8" Dia. Channel Keyway	2-27/64"	Rope Starter Ball Bearing PTO
21617*	494 1301-039	46-808	3/4" Dia. Channel Keyway	2-27/64"	Rope Starter Ball Bearing PTO
21622*	494 0101-179	46-609	3/4" Dia. Channel Keyway	2-17/32"	Snorkel Housing 18-6 Ear Base Yazoo Repl.
21629*	494 1301-228	46-808	3/4" Dia. Channel Keyway	2-27/64"	Rope Starter Large Cast Pulley. Ball Bearing PTO Outside Breaker Points Tank Over Hsg. Heavy Duty Air Cleaner.

- 498 -

**FOUR CYCLE - CAST IRON - HORIZONTAL
4-1/2 Horsepower - Full Float, Block Mounted Carburetor
Mechanical Governor and Tapered Roller Bearings**

21461**	498 0301-019	46-239	3/4" Dia. Channel Keyway	2-27/64"	
21572**	498 0301-046	46-239	3/4" Dia. Channel Keyway	2-27/64"	18-6 Ear Base
21467	498 0301-008	46-219	Tapered Tapped 5/16-24	2-53/64"	Generator Replacement
21465*	498 0301-083	46-243	5/8" Dia. External Threaded 5/8-18	2-27/64"	Pump Replacement
21553**	498 1301-018	46-239	3/4" Dia. Channel Keyway	2-27/64"	Rope Starter
21462*	498 5301-314	46-239	3/4" Dia. Channel Keyway	2-27/64"	12 Volt Starter Generator
21469*	498 0361-045		3/4" Dia. Channel Keyway	1-31/32"	6:1 Reduction CCW Rotation

Continued on Page 8

Note 2 The Figure shown is the crankshaft length from the mounting surface of the block or reduction housing.

STOCK NUMBER	MODEL NUMBER	CRANK SHAFT NUMBER	CRANKSHAFT DIAMETER & DESCRIPTION	CRANKSHAFT LENGTH (See Note 2)	REMARKS
Continuation of 498 - 4½ Horsepower - Full Float Carburetor					
21611*	498 0361-075		3/4" Dia. Channel Keyway	1-31/32"	6:1 Reduction CCW Rotation Toro Replacement. 5 Qt. Tank
21618*	498 1301-047	46-239	3/4" Dia. Channel Keyway	2-27/64"	18-6 Base Rope Start
21623*	498 0301-184	46-239	3/4" Dia. Channel Keyway	2-27/64"	18-6 Base Snorkel Housing Yazoo Replacement.
21625*	498 0301-025	46-278	3/4" Dia. Channel Keyway	3-3/8"	Stellite Valve With Roto Cap Remote Shorting Device. Spark Plug Cover Jacobsen Replacement
21626*	498 0301-126	46-240	Tapered Tapped 5/16-24	2-53/64"	Needle Bearing Gov. Block Machined for Fuel Pump.
21630*	498 1301-310	46-239	3/4" Dia. Channel Keyway	2-27/64"	Rope Start. Large Cast Pulley. Outside Breaker Points. Tank-Hsg. Heavy Duty Air Cleaner
21653*	498 0301-294	46-239	3/4" Dia. Channel Keyway	2-27/64"	18-6 Base Snorkel Hsg. Outside Breaker Points Yazoo Replacement
21654*	498 0301-315	46-239	3/4" Dia. Channel Keyway	2-27/64"	Compression Release Snorkel Housing Yazoo Replacement.

- 412 -

6 Horsepower - Full Float Carburetor

21573**	412 1304-005	46-802	1" Dia. Channel Keyway	3-21/32"	Tapered Roller Bearings
21574*	412 1364-004		1" Dia. Channel Keyway	3-3/16"	6:1 Reduction CCW Rotation

- 414 -

7.5 Horsepower - Full Float Carburetor
Tapered Roller Bearings

21485*	414 1362-111		1" Dia. Channel Keyway	3-3/6"	6:1 Reduction CCW Rotation
21486*	414 1302-112	46-326	1" Dia. Channel Keyway	3-21/32"	

- 418 -

8 Horsepower - Full Float Carburetor
Tapered Roller Bearings

21537**	418 1302-119	46-326	1" Dia. Channel Keyway	3-21/32"	
21615*	418 1302-118	46-323	Tapered Tapped 5/16-24	4-21/64"	Generator Replacement
21539*	418 5302-125	46-326	1" Dia. Channel Keyway	3-21/32"	12 Volt Starter Generator

Continued on Page 9

Note 2 The figure shown is the crankshaft length from the mounting surface of the block or reduction housing.

STOCK NUMBER	MODEL NUMBER	CRANK SHAFT NUMBER	CRANKSHAFT DIAMETER & DESCRIPTION	CRANKSHAFT LENGTH (See Note 2)	REMARKS
--------------	--------------	--------------------	-----------------------------------	--------------------------------	---------

Continuation of 418 - 8 Horsepower - Full Float Carburetor

21536*	418 1362-110		1" Dia. Channel Keyway	3-3/16"	6:1 Reduction CCW Rotation
--------	-----------------	--	---------------------------	---------	-------------------------------

- 420 -

9.6 Horsepower - Full Float Carburetor
Tapered Roller Bearings

21494**	420 1302-109	46-379	1" Dia. Channel Keyway	4-9/32"	
21514*	420 5302-117	46-379	1" Dia. Channel Keyway	4-9/32"	12 Volt Starter Generator
21493*	420 1362-110		1" Dia. Channel Keyway	3-3/16"	6:1 Reduction CCW Rotation

- 422 -

10.3 Horsepower - Full Float Carburetor
Tapered Roller Bearings

21495*	422 1302-105	46-379	1" Dia. Channel Keyway	4-9/32"	
21497*	422 5302-114	46-379	1" Dia. Channel Keyway	4-9/32"	12 Volt Starter Generator
21500*	422 1362-104		1" Dia. Channel Keyway	3-3/16"	6:1 Reduction CCW Rotation

Note 2 The figure shown is the crankshaft length from the mounting surface of the block or reduction housing.

NOTES:

CURRENT NUMERICAL STOCK NUMBER LISTING

STOCK NUMBER	MODEL NUMBER	PAGE NUMBER	STOCK NUMBER	MODEL NUMBER	PAGE NUMBER
21401	501-0001-023	3	21572	498-0301-046	7
21402	500-0100-000	5	21573	412-1304-005	8
21403	500-0160-004	5	21574	412-1364-004	8
21404	500-0300-005	5	21578	499-0004-009	5
21409	401-0000-004	3	21580	407-0004-006	4
21410	401-0000-005	3	21581	415-0004-009	3
21412	415-0004-005	3	21582	415-0004-004	3
21413	415-0014-007	3	21583	404-0114-256	6
21415	400-0105-022	6	21589	401-0000-006	3
21417	400-0305-025	6	21590	415-0014-008	3
21421	404-0104-257	6	21591	415-0004-010	3
21422	404-0164-255	6	21592	415-0004-011	3
21423	404-0304-258	6	21593	407-0004-005	4
21441	494-1101-021	6	21594	407-0014-004	4
21444	494-0101-030	6	21595	499-0004-007	5
21449	494-0161-134	6	21596	499-0004-008	5
21450	494-0301-040	7	21597	499-0004-006	5
21452	494-0301-085	7	21600	400-0305-024	6
21453	494-0301-031	7	21609	494-0301-152	7
21454	494-0301-086	7	21611	498-0361-075	8
21455	494-0301-087	7	21615	418-1302-118	8
21461	498-0301-019	7	21616	494-1301-050	7
21462	498-5301-314	7	21617	494-1301-039	7
21465	498-0301-083	7	21618	498-1301-047	8
21467	498-0301-008	7	21622	494-0101-179	7
21469	498-0361-045	7	21623	498-0301-184	8
21485	414-1362-111	8	21625	498-0301-025	8
21486	414-1302-112	8	21626	498-0301-126	8
21493	420-1362-110	9	21628	415-0004-014	3
21494	420-1302-109	9	21629	494-1301-228	7
21495	422-1302-105	9	21630	498-1301-310	8
21497	422-5302-114	9	21637	419-0004-007	4
21500	422-1362-104	9	21638	419-0014-004	4
21514	420-5302-117	9	21639	410-0105-013	6
21522	494-1101-022	6	21640	410-0305-014	6
21528	499-0004-010	5	21641	410-0165-011	6
21536	418-1362-110	9	21644	410-0305-020	6
21537	418-1302-119	8	21645	502-0308-000	5
21539	418-5302-125	8	21646	415-0014-015	3
21544	415-0004-006	3	21647	415-0014-016	4
21548	500-0300-014	5	21648	407-0004-009	4
21549	500-0300-017	5	21649	415-0014-017	4
21553	498-1301-018	7	21650	419-0004-005	4
21559	407-0004-007	4	21651	419-0014-006	4
21560	494-0301-013	7	21652	503-0308-000	5
21570	407-0004-008	4	21653	498-0301-294	8
21571	494-0101-025	6	21654	498-0301-315	8

NOTE: 2:1 and 4:1 Speed Reducer (Clockwise Rotation) are available on all Horizontal models. Contact factory for price and delivery. Also for additional accessories not standard to model numbers listed.

There will be additional charges for special engine build up and factory conversion for crankshaft change, etc. on standard models.

Specifications are subject to change without notice. Shipments are via truck or specified routing, collect. All risk of loss passes to Buyer upon delivery to carrier.



Clinton

CLINTON ENGINES CORPORATION

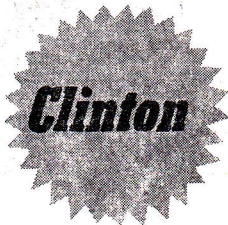
MAQUOKETA, IOWA

CLINTON ENGINES CORPORATION • MAQUOKETA, IOWA

WARRANTY

This warranty supersedes and deletes all previous warranty written, expressed or implied. Clinton Engines shall in no way be liable for consequential damage.

All Clinton Products are warranted. Clinton Engines Corporation will replace to the original owner "Free of Charge" any part or parts shown on examination by a Clinton Authorized Service Account or Clinton Factory to be defective in material and/or workmanship. The following warranty on specific Clinton Products will apply and becomes effective from date of purchase. All transportation charges on parts or assemblies submitted for replacement under this warranty must be borne by the purchaser.



1. Engines -- Governed -- One Year
2. Outboards -- One Year
3. Engines -- Used on Mini Bikes -- 90 Days
4. Engines -- Non-governed and Chainsaws -- 45 Days
5. Engines -- Used on Karts -- No Warranty

CLINTON ENGINES CORPORATION