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MANUAL PREVIEW

David Bradley

Service Manual

Walk Behind

Garden Tractor

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DB-SOP-GDN TR

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Operating and Maintenance Instructions

**with Parts List for
Sears Gasoline Engines**

Your Sears Gasoline Engine carries one of the model numbers listed below. It will be found on a plate on the blower housing. Always mention this model number when communicating with us regarding your Sears Gasoline Engine or when ordering parts.

MODEL NUMBERS

500.306110

500.306115

500.306111

500.306126

500.306112

500.306523

500.306113

500.306704

This list is valuable. It will assure your being able to obtain proper parts service at all times. Be sure to read instructions preceding the parts list, entitled "To Find the Correct Parts You Need." We suggest you keep this book with other valuable papers.

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- b. Remove cover and filter and pour out oil.
- c. Wash the outside of the filter element with a rag or brush dipped in gasoline. Do not submerge.
- d. Clean bowl and cover by submerging in gasoline and wipe dry.
- e. Replace parts. Fill cleaner with same oil as used in the crankcase up to the level marked on cleaner bowl. See instructions on air cleaner label.

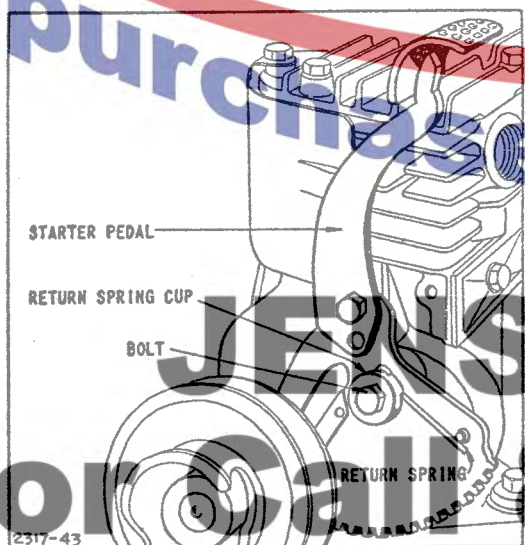
MUFFLER

61. TO CLEAN. After long periods of service it is possible that the muffler will become clogged to the point where it will affect the engine's power. To check the muffler unscrew it from the engine and run water into the open end of the muffler. If full streams of water come out of small holes at the end of the muffler, you will know that it is not clogged up. If the water runs through very slowly, however, the muffler is probably clogged and should be replaced.

OVERLOAD

62. TO PREVENT. Always be sure that the machine the engine is operating is well lubricated and running freely. If it is not, it may cause the engine to be overloaded, resulting in it overheating, losing power, or stopping entirely.

Starter Pedal Adjustment—Plate No. 25



63. STARTER PEDAL ADJUSTMENT.

Should the starter pedal return spring, on engines with the starter on the power take-off side, loosen or lose its tension, loosen the bolt which holds the return spring cup. See plate No. 25. Turn the cup to the left until there is just enough tension to return the starter pedal back to the normal position after depressing it, and tighten the bolt. Too much tension may cause spring to break. Be sure the spring is in the proper position with the long end below the pedal adjusting bolt and the hooked end in the slot of the cup.

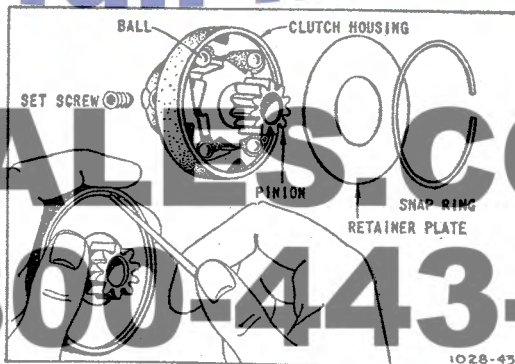
64. STARTER CLUTCH. If the starter clutch slips or fails to turn the engine, when stepping on the starter pedal, it is probably caused by one of the following reasons:

- Loose set screw.
- Worn clutch housing.
- Worn or broken pinion.

To correct this, proceed as follows:

- a. Tighten the set screw to be sure clutch is tight on the crankshaft. Use $\frac{5}{8}$ " Allen hexagon set screw wrench.
- b. If the clutch still slips, loosen set screw and remove clutch from the shaft.
- c. Pry out the snap spring with a sharp tool, holding the clutch in the position shown in plate No. 26, as a precaution against the spring jumping out. Check the parts carefully for wear or damage and replace those necessary.
- d. To reassemble, replace the parts in the same order, and slip the spring back in place. Replace pulley clutch on shaft with the set screw hole lined up with recess in crankshaft extension. Securely tighten set screw.

Starter Clutch—Plate No. 26



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PARTS SECTION INDEX

How to Find the Correct Number of Part You Need.....(See below) Page

Numerical Parts List.....26-34

Illustrations of Parts Groups:

Cylinder and Base..... 20

Fuel Tank and Magneto Parts..... 21

Fuel System 22

Piston, Connecting Rod, Flywheel, and Governor Parts..... 23

Starter Parts 24

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65. HOW TO FIND THE CORRECT NUMBER OF THE PART YOU NEED

a. Make a note of your engine **MODEL NUMBER** (Not the Serial Number) that appears on the metal nameplate attached to cylinder shield.

b. Refer to pages illustrating parts and locate the Master Part Number by comparing your old part with illustrations. Assemblies include all part numbers shown in frames in illustration. All parts shown in assembly frames on which part numbers are given can be purchased separately.

c. After the Master Part Number has been identified, refer to the following Parts List where these Master Part numbers are listed in numerical order.

THE MASTER PART IS USED ON ALL TYPES OF ENGINES EXCEPT THOSE TYPES LISTED UNDER "NOTE."

Type numbers referred to under "Note" are the same as model numbers with the first three figures (500) dropped.

d. If a "Note" appears below the Master Part Number, this means that this part is made different from the Master Part for certain types, and if your type is listed under "Note" order the part referred to.

e. If your Engine Type Number does not appear after any part number listed under "Note," order the Master Part Number.

f. When ordering parts—or writing for service information—always specify the **MODEL LETTER—TYPE NUMBER—and SERIAL NUMBER** of your engine.

All parts should be ordered from our nearest store or mail order house.

66. **PRICES:** All prices in this book are subject to change without notice. In case of change of prices, orders will be filled at current prices. See page 35 for how to order repair parts.

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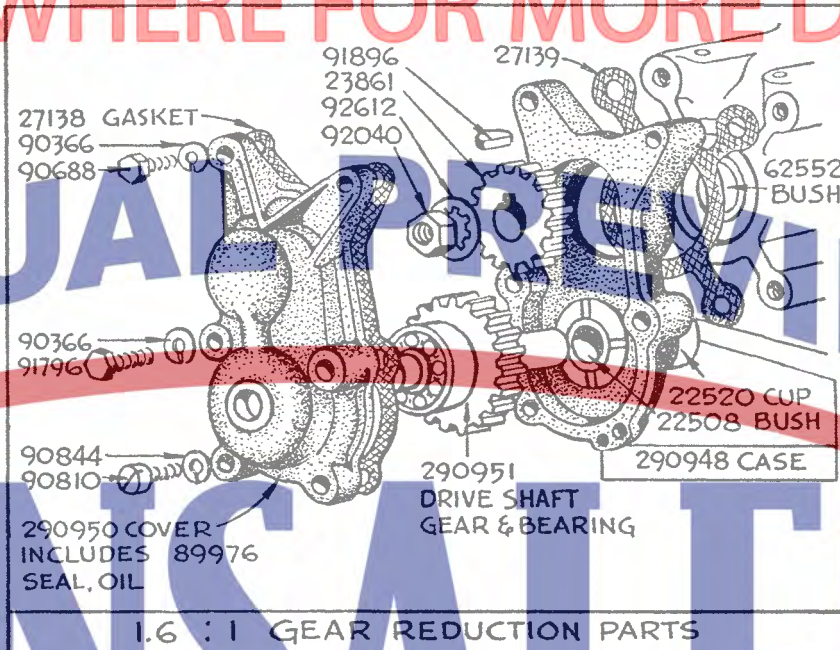
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2520-125

GEAR REDUCTION PARTS—PLATE NO. 32
Assemblies include all parts shown in frames

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NUMERICAL PARTS LIST

MASTER PART NO.	NAME	SHIPPING WEIGHT Lbs. Oz.	SELLING PRICE EACH
19011	Seal—Oil	2	\$ 1.25
21110	Venturi—Carburetor	1	.15
21129	Body—Lower Carburetor	6	2.50
	Note: No. 99720 Body Assembly—Lower Carburetor.....	6	2.50
	Used on type Nos. 306126, 306702, 306703.		
	Includes: No. 90193 Screw—Machine, Fill. Hd.—6-32x $\frac{3}{8}$	1	.05
	No. 90362 Lockwasher—No. 6x3/64x $\frac{1}{2}$	1	4 @ .05
21277	Gear—Cam	1 8	2.25
21283	Ring—Piston, Compression, Top—Standard.....	1	.40
21310	Body—Breather	1	.10
21362	Head—Cylinder	2	1.25
21376	Ring—Piston, Compression, Top—.010" O.S.....	1	.40
21377	Ring—Piston, Compression, Top—.020" O.S.....	1	.40
21378	Ring—Piston, Compression, Top—.030" O.S.....	1	.40
21453	Lever—Hand Starter	1	.65
21589	Lever—Governor	2	.25
21590	Housing—Governor	6	.80
21611	Elbow—Air Cleaner	12	2.00
21646	Housing—Governor	6	.70
21737	Elbow—Air Cleaner	6	1.75
21752	Elbow—Carburetor Intake	6	.75
22031	Lock—Clutch Housing	2	.15
22032	Washer—Needle Valve Packing.....	1	.05
22036	Valve—Throttle	1	.10
22050	Valve—Choke	1	.10
22062	Washer—Choke Lever	1	.05
22125	Brace—Air Cleaner Elbow.....	1	.10
22182	Washer—Clutch Retainer	1	.05
22206	Shield—Cylinder	6	.15
22216	Cover—Breather	1	.10
22217	Shield—Oil Spray	1	.10
22221	Cover—Valve	6	.10
22238	Washer—Cylinder Mounting	1	.05
22243	Washer—Cylinder Mounting	1	.05
22279	Brace—Air Cleaner Elbow.....	1	.10
22353	Washer—Valve Cover	1	3 @ .05
22368	Washer—Control Lever	1	.10
22508	Bushing—Gear Case	2	.20
22520	Cup—Gear Case	1	.10
22531	Lever—Governor Control	3	.15
22532	Stop—Governor Lever	2	.15
22533	Cup—Governor	2	.35
22594	Brace—Carburetor	1	.10
22636	Stop—Governor Lever	2	.15
22637	Shield—Governor	4	.35
22695	Strap—Governor Control Rod.....	1	.10
22725	Washer—Control Lever	1	.05
22818	Dipper—Connecting Rod	3	.10
22834	Washer—Spacer	1	.05
22856	Lock—Connecting Rod Screw.....	1	.05
23059	Lever—Fuel Shut-off	2	.25
23068	Nut—Speed Adjusting	1	.10
23069	Screw—Speed Adjusting	1	.05
23075	Spacer—Foot Pedal Support.....	1	.15
23077	Pinion—Starter	4	.85
	Note: No. 63794 Pinion—Starter.....	4	.90
	Used on type Nos. 306702, 306703.		

MASTER PART NO.	NAME	SHIPPING WEIGHT Lbs. Oz.	SELLING PRICE EACH
-----------------------	------	--------------------------------	--------------------------

23104	Spacer—Foot Pedal Support.....	1	.10
23114	Pin—Float Hinge	1	.10
23125	Pin—Throttle Stop and Governor Lever.....	1	.05
23184	Retainer—Valve Spring	1	.05
23187	Pin—Valve Spring Retainer.....	1	.05
23222	Nozzle—Carburetor	1	.50
23227	Nut—Needle Valve Packing.....	1	.10
23228	Valve—Carburetor Idle	1	.25
23230	Bushing—Throttle Shaft	1	.10
23270	Screw—Choke Lever	1	.05
23292	Bolt—Air Cleaner—6 $\frac{1}{8}$ " long.....	2	.20
Note: No. 23334 Stud—Air Cleaner—6" long.....		1	.25
No. 90319 Nut—Hex.—10-32		1	.05
No. 92290 Lockwasher—No. 10x $\frac{1}{8}$ x3/64"		1	3 @ .05
Used on type Nos. 306126, 306400, 306405, 306517, 306700, 306702, 306703, 306706, 306900, 307006, 307100, 307102.			
23329	Bushing—Starter Support	2	.50
23336	Valve—Intake	2	.55
23388	Pinion—Starter	4	.65
23443	Pin—Dowel	1	.05
23444	Stud—Valve Cover	1	.05
23663	Valve—Exhaust	2	1.25
23688	Bushing—Governor Control	1	.05
23691	Bushing—Governor Crank	2	.15
23692	Push Rod—Stop Switch.....	1	.30
23722	Screw—Governor Control Lever.....	3	.50
23794	Bushing—Gear Case Cover.....	3	.50
23861	Pinion—Drive	6	2.25
26021	Spring—Intake Valve	1	.05
26025	Spring—Pedal Return	1	.10
26026	Lock—Piston Pin	1	3 @ .05
26032	Spring—Clutch Retainer	1	.05
26152	Spring—Pedal and Lever Return.....	1	.20
26157	Spring—Idle Valve and Throttle Adjustment.....	1	.05
26228	Spring—Choke Lever Return.....	1	.15
26229	Spring—Choke Lever	1	.05
26267	Spring—Control Wire Return.....	1	.20
26269	Spring—Starter Pedal Return.....	2	.50
26330	Spring—Breather Retainer	1	.05
26351	Crankshaft	3	4.50
Note: No. 26316 Crankshaft.....		3	4.50
Used on type Nos. 306300, 306301, 306302.			
No. 26329 Crankshaft.....		3	4.50
Used on type Nos. 306500, 306505, 306507, 306508, 306509, 306510, 306513, 306521.			
No. 26343 Crankshaft.....		3	4.75
Used on type Nos. 306503, 306517.			
No. 26353 Crankshaft.....		3	4.75
Used on type Nos. 306700, 306701, 306706.			
No. 26359 Crankshaft.....		3	4.75
Used on type Nos. 306702, 306703.			
No. 26362 Crankshaft.....		3	5.00
Used on type Nos. 306502, 306511, 306512, 306520.			
No. 26378 Crankshaft.....		3	4.75
Used on type Nos. 306400, 306401, 306402, 306403, 306404, 306405.			
No. 26383 Crankshaft.....		3	4.50
Used on type Nos. 306501, 306506, 306514, 306515, 306516.			

(See following page)

MASTER
PART
NO.

NAME

SHIPPING
WEIGHT
Lbs. Oz. SELLING
PRICE
EACH

	No. 26385 Crankshaft.....	3	5.00
	Used on type No. 306504.		
	No. 26499 Crankshaft.....	3	4.75
	Used on type No. 306800.		
	No. 26596 Crankshaft.....	3	5.50
	Used on type Nos. 307000, 307002, 307003, 307004, 307005, 307006, 307007, 307008, 307009, 307011, 307012, 307013.		
	No. 26620 Crankshaft.....	3	5.75
	Used on type Nos. 307100, 307101, 307102, 307103, 307104.		
	No. 26621 Crankshaft.....	3	5.50
	Used on type Nos. 306900, 306901.		
	No. 26625 Crankshaft.....	3	5.50
	Used on type No. 306519.		
26301	Link—Throttle	1	.10
26398	Spring—Governor	1	.35
26404	Washer—Stop Switch	1	.05
26478	Spring—Exhaust Valve	1	.20
26483	Spring—Stop Switch Push Rod.....	1	.15
26502	Spring—Governor	2	.10
26548	Link—Governor	2	.10
26576	Rod—Control	2	.35
26578	Spring—Control Rod Return.....	1	.15
27043	Gasket—Engine Base	1	.10
	Note: No. 67547 Gasket—Engine Base.....	1	.05
	Used on type No. 306519.		
27045	Gasket—Intake Elbow Mounting.....	1	.05
27108	Washer—Starter Lever	1	.05
27138	Gasket—Gear Case Cover.....	1	.15
27139	Gasket—Gear Case Mounting.....	1	.15
27140	Gasket—Governor Housing	1	.05
27292	Gasket—Gear Case Cover.....	1	.10
29226	Cup—Oil	1	.20
29667	Point Assembly—Contact	2	.75
29671	Armature—Magneto	2	3.00
29693	Plug—Spark—with Gasket	3	.05
29806	Gasket—Spark Plug	1	.05
29835	Flywheel—Magneto	6	6.00
29861	Condenser	2	.45
29876	Rod Assembly—Choke	1	.15
29878	Rope—Starter	6	.25
32063	Washer—Governor Shield	1	2 @ .05
37346	Rivet— $\frac{1}{8}$ x $1\frac{1}{4}$ " Tubular	1	4 @ .05
38852	Washer—Armature and Governor Shield.....	1	3 @ .05
61756	Ring—Piston, Compression, Center—Standard.....	1	.40
61757	Ring—Piston, Oil—Standard	1	.60
61760	Key—Flywheel	1	.10
	Note: No. 21103 Key—Flywheel.....	1	.15
	Used on type Nos. 306702, 306703.		
61768	Ring—Piston, Compression, Center—.010" O.S.....	1	.40
61769	Ring—Piston, Compression, Center—.020" O.S.....	1	.40
61770	Ring—Piston, Compression, Center—.030" O.S.....	1	.40
61771	Ring—Piston, Oil—.010" O.S.....	1	.60
61772	Ring—Piston, Oil—.020" O.S.....	1	.60
61773	Ring—Piston, Oil—.030" O.S.....	1	.60
61947	Housing—Starter Clutch	10	.60
	Note: No. 21100 Housing—Starter Clutch.....	14	.75
	Used on type Nos. 306702, 306703.		
61967	Stop—Throttle Lever	1	.20
62536	Cup—Starter Return Spring.....	1	.05
62538	Washer—Clutch Retainer	1	.05

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MASTER PART NO.	NAME	SHIPPING WEIGHT Lbs. Oz.	SELLING PRICE EACH
62552	Bushing—Cylinder	2	.25
62577	Washer—Flywheel	1	.10
	Note: No. 62903 Washer—Flywheel.....	1	.10
	Used on type Nos. 306400, 306401, 306402, 306403, 306404, 306405, 306700, 36701, 306706, 306900, 306901, 307100, 307101, 307102, 307103, 307104.		
62641	Plate—Speed Adjuster Retainer.....	2	.05
62693	Pulley—Rope Starter	6	.45
62835	Cover—Dust	4	.15
62851	Strap—Fuel Tank	3	.25
	Note: No. 62965 Strap—Fuel Tank.....	2	.50
	Used on type No. 306520.		
62876	Screen—Fuel Filter	1	.15
	Note: No. 22547 Screen—Fuel Filter.....	1	.15
	Used on type No. 306126.		
62891	Wrench—Spark Plug	4	.20
62966	Switch—Stop	2	.15
63426	Locknut—Control Wire Casing.....	1	.05
63770	Ball—Clutch	1	2 @ .05
63771	Bushing—Starter Sector	1	.10
63785	Shaft—Cam	3	.30
63788	Tappet—Valve	1	.25
65304	Washer—Filler Cap	1	.05
65704	Plunger—Contact Point	1	.20
65794	Insulator—Armature	1	.05
65068	Disk—Breather	1	.05
66114	Washer—Cylinder Mounting	1	.05
66154	Washer—Stop Switch	1	.10
66164	Washer—Stop Switch	1	.10
66432	Washer—Speed Adjuster Retainer and Fuel Tank Strap....	1	.05
	Note: No. 67072 Washer—Fuel Tank Strap.....	1	.05
	Used on type No. 306520.		
66976	Wire—Control—53" long	3	.25
	Note: If a longer wire is needed, specify length in inches; if a shorter wire is needed order No. 66976 and cut to required length.		
66986	Casing—Control Wire—48" long.....	8	.40
	Note: If a longer casing is needed, specify length in inches; if a shorter casing is needed order No. 66986 and cut to required length.		
67307	Gasket—Magneto Plate—.015" thick.....	1	.05
67527	Gasket—Valve Cover	1	.05
67537	Gasket—Cylinder Head	1	.10
67597	Gasket—Magneto Plate—.005" thick.....	1	.05
67607	Gasket—Magneto Plate—.009" thick.....	1	.05
68122	Plug—Cam Shaft	1	.05
68477	Gasket—Fuel Filter Bowl.....	1	.05
68487	Bowl—Fuel Filter	2	.15
68507	Washer—Fuel Shut-off Valve Packing.....	1	.05
68857	Gasket—Carburetor Body	1	.10
68877	Gasket—Fuel Inlet Valve Seat.....	1	.10
68887	Packing—Needle Valve	1	.05
68897	Gasket—Carburetor Venturi	1	.05
68957	Gasket—Air Cleaner Mounting.....	1	.05
68987	Gasket—Carburetor Mounting	1	.05
69221	Cap—Fuel Tank	2	.15
	Note: No. 69961 Cap—Fuel Tank.....	2	.35
	Used on type Nos. 306104, 306126, 306520, 306703.		
69345	Cap—Oil Filler	2	.35
	Note: No. 290413 Cap—Oil Filler.....	4	.15
	Used on type No. 306519.		

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MASTER PART NO.	NAME	SHIPPING WEIGHT Lbs. Oz.	SELLING PRICE EACH
89127	Clutch and Pulley Assembly—Starter.....	1	1.85
89190	Pipe—Fuel—13" long	3	.40
	Note: No. 65919 Pipe—Fuel—18" long.....	5	.45
	Used on type No. 306703.		
	No. 89226 Pipe—Fuel—11½" long.....	3	.35
	Used on type No. 307003.		
	No. 89520 Pipe—Fuel—12¾" long.....	3	.40
	Used on type Nos. 306104, 306520.		
89241	Blade—Governor	6	.50
	Note: No. 22530 Air Guide.....	3	.25
	Used on type Nos. 306125, 306126, 306127, 306405, 306510, 306511, 306512, 306520, 306702, 306703, 306706. For Mechanical Governor.		
89280	Cylinder—Assembly	14	12.00
	Note: No. 89401 Cylinder Assembly.....	14	12.00
	Used on type Nos. 306500, 306501, 306502, 306503, 306504, 306505, 306506, 306507, 306508, 306509, 306513, 306514, 306515, 306516, 306517, 306521, 306700, 306701.		
	No. 89465 Cylinder Assembly.....	14	12.00
	Used on type No. 306114.		
	No. 89975 Cylinder Assembly.....	14	12.00
	Used on type Nos. 306800, 306900, 306901, 307000, 307002, 307003, 307004, 307005, 307006, 307007, 307008, 307009, 307011, 307012, 307013, 307100, 307101, 307102, 307103, 307104.		
	No. 290239 Cylinder Assembly.....	14	15.00
	Used on type Nos. 306510, 306511, 306512, 306520, 306702, 306703, 306706.		
	Includes: No. 23690 Governor Shaft.....	1	.20
	No. 290320 Cylinder Assembly.....	14	16.25
	Used on type Nos. 306125, 306126, 306127, 306405.		
	Includes: No. 23690 Governor Shaft.....	1	.20
	No. 290971 Cylinder Assembly.....	14	12.00
	Used on type No. 306519.		
89283	Piston Assembly—.010" O.S.....	8	3.40
89284	Piston—.010" O.S.	6	2.00
89285	Piston Assembly—.020" O.S.....	8	3.40
89286	Piston—.020" O.S.	6	2.00
89287	Piston Assembly—.030" O.S.....	8	3.40
89288	Piston—.030" O.S.	6	2.00
89289	Piston Assembly—Standard	8	2.90
89290	Piston—Standard	6	1.50
89363	Sector Assembly—Starter	14	1.50
89365	Pedal Assembly—Foot Starter.....	3	2.25
89386	Housing—Blower	2	1.75
	Note: No. 89207 Housing—Blower.....	2	1.50
	Used on type Nos. 306104, 306107, 306122, 306126, 306508, 306519, 306702, 306703.		
	No. 89301 Housing—Blower.....	2	1.75
	Used on type Nos. 306105, 306106, 306132, 306300, 306301, 306302.		
	No. 89392 Housing—Blower.....	2	1.75
	Used on type Nos. 306400, 306401, 306402, 306403, 306404, 306405, 306700, 306701, 306706, 306900, 306901, 307100, 307101, 307102, 307103, 307104.		
	No. 290167 Housing—Blower.....	2	2.50
	Used on type Nos. 306511, 306516, 306521.		
	No. 290231 Housing—Blower.....	2	3.00
	Used on type No. 306520.		

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MASTER PART NO.	NAME	SHIPPING WEIGHT Lbs. Oz.	SELLING PRICE EACH
89495	Body Assembly—Upper Carburetor.....	4	3.50
89600	Lever Assembly—Hand Starter.....	3	3.00
89611	Sector Assembly—Starter	14	1.50
89615	Valve—Fuel Shut-off	3	1.60
89660	Seal—Oil	1	.40
89677	Bushing—Crankshaft or Magneto.....	3	.60
	Includes: No. 89660 Seal—Oil.		
89742	Shield—Spark Plug	6	2.50
89838	Wrench—Spark Plug	6	.50
89906	Muffler—Assembly	8	1.00
	Note: No. 200010 Muffler—Assembly.....	1	1.25
	Used on type No. 306126.		
89976	Seal—Oil	3	.40
90029	Screw—Machine, Round Hd.—4-36x $\frac{1}{4}$ ".....	1	.05
90066	Screw—Machine, Round Hd.—8-32x $\frac{1}{4}$ ".....	1	2 @ .05
90067	Screw—Machine, Round Hd.—8-32x $\frac{5}{16}$ ".....	1	2 @ .05
90079	Screw—Machine, Round Hd.—10-32x $\frac{3}{8}$ ".....	1	2 @ .05
90083	Screw—Machine, Round Hd.—10-32x $\frac{5}{8}$ ".....	1	2 @ .05
90200	Screw—Machine, Fill. Hd.—8-32x $\frac{1}{2}$ ".....	1	.05
90202	Screw—Machine, Fill. Hd.—10-32x $\frac{1}{2}$ ".....	1	.05
90310	Nut—Hex.—6-32	1	.05
90337	Nut—Hex.—8-32, Brass	1	.05
90364	Lockwasher—No. 8x3/64x $\frac{1}{2}$ ".....	1	2 @ .05
90366	Lockwasher— $\frac{1}{8}$ x $\frac{1}{2}$ x $\frac{1}{8}$ ".....	1	4 @ .05
90369	Lockwasher— $\frac{1}{8}$ x3/64x $\frac{1}{2}$ ".....	1	4 @ .05
90528	Screw—Cap. Hex. Hd.— $\frac{1}{4}$ -28x $\frac{3}{4}$ ".....	1	.05
90586	Screw—Cap. Hex. Hd.— $\frac{3}{8}$ -24x1".....	1	.05
90688	Screw—Cap. Hex. Hd.— $\frac{1}{8}$ -24x1 $\frac{1}{4}$ ".....	1	.05
90699	Lockwasher— $\frac{1}{4}$ x5/64x $\frac{1}{8}$ ".....	1	3 @ .05
90733	Pin—Cotter— $\frac{1}{8}$ x1 $\frac{1}{4}$ ".....	1	4 @ .05
90810	Screw—Machine, Fill. Hd.— $\frac{1}{4}$ -20x $\frac{3}{4}$ ".....	1	.05
90832	Lockwasher— $\frac{1}{4}$ x $\frac{3}{8}$ x5/64".....	1	4 @ .05
90844	Lockwasher— $\frac{1}{4}$ x $\frac{1}{2}$ x $\frac{1}{8}$ ".....	1	3 @ .05
90847	Nut—Hex.— $\frac{1}{4}$ -28	1	.05
90877	Screw—Stop Switch	1	.05
90916	Screw—Machine, Round Hd.— $\frac{1}{4}$ -20x $\frac{1}{2}$ ".....	1	.05
	Note: No. 92419 Screw—Machine, Fill. Hd.— $\frac{1}{4}$ -20x $\frac{5}{8}$ ".....	1	.05
	Used on type Nos. 306400, 306402, 306405, 306517, 306700, 306702, 306703, 306706, 306900, 307006, 307100, 307102.		
	To mount blower housing to head.		
91070	Lockwasher—Shakeproof No. 1208.....	1	3 @ .05
91084	Plug—Pipe— $\frac{3}{8}$ "	1	.10
91199	Lockwasher—No. 8x3/64x3/64".....	1	2 @ .05
91208	Nut—Hex.— $\frac{1}{8}$ -24	1	.05
91237	Lockwasher— $\frac{1}{4}$ x $\frac{3}{8}$ x3/64".....	1	4 @ .05
91321	Screw—Machine, Round Hd.— $\frac{1}{4}$ -20x $\frac{3}{8}$ ".....	1	.05
91324	Washer— $\frac{1}{4}$ " Standard	1	2 @ .05
91413	Cotter Pin— $\frac{1}{8}$ x1" long.....	1	4 @ .05
91427	Lockwasher—No. 10x3/64x3/64".....	1	2 @ .05
91449	Screw—Cylinder Head (long).....	1	.05
91456	Screw—Cap. Hex. Hd.— $\frac{1}{4}$ -20x1".....	1	.05
91488	Plug—Pipe— $\frac{1}{8}$ "	1	.10
91539	Key— $\frac{3}{16}$ " square	1	.10
91541	Screw—Cap. Hex. Hd.— $\frac{5}{16}$ -24x $\frac{7}{8}$ ".....	1	.05
91691	Screw—Machine, Fill. Hd.— $\frac{1}{4}$ -20x $\frac{5}{8}$ ".....	1	.05
91708	Nut—Flywheel	1	.05
	Note: No. 91900 Nut—Flywheel.....	1	.10
	Used on type Nos. 306400, 306401, 306402, 306403, 306404, 306405, 306700, 306701, 306706, 306900, 306901, 307100, 307101, 307102, 307103, 307104.		

MASTER PART NO.	NAME	SHIPPING WEIGHT Lbs. Oz.	SELLING PRICE EACH
91711	Screw—Cylinder Head (short).....	1	.05
91741	Screw—Cap, Hex. Hd.— $\frac{3}{8}$ -24x $\frac{1}{2}$ ".....	1	.05
91753	Screw—Machine, Fill. Hd.—8-32x1".....	1	.05
91758	Screw—Set, Socket Hd.— $\frac{1}{8}$ -24x $\frac{1}{2}$ ".....	1	.10
91796	Screw—Cap, Hex. Hd.— $\frac{1}{8}$ -24x $\frac{3}{4}$ ".....	1	.05
91808	Lockwasher— $\frac{1}{8}$ x $\frac{1}{2}$ x $\frac{1}{8}$ ".....	1 2 @	.05
91810	Elbow—Muffler.....	3	.40
	Note: No. 91843 Elbow—Muffler.....	3	.40
	Used on type Nos. 306117, 307005, 307006.		
91811	Locknut—Muffler Elbow.....	2	.05
91896	Key—No. 5 Standard—Woodruff.....	1	.05
91901	Screw—Cap, Hex. Hd.— $\frac{7}{8}$ -20x $\frac{1}{2}$ ".....	1	.05
91920	Screw—Machine, Fill. Hd.—8-32x $\frac{5}{8}$ ".....	1	.05
91984	Pin—Cotter— $\frac{1}{8}$ x $\frac{1}{2}$ " long.....	1 2 @	.05
92017	Screw—Machine, Fill. Hd.—8-32x $\frac{5}{8}$ ".....	1	.05
92040	Nut—Jam.....	3	.10
92054	Nut—Starter Pedal.....	1	.20
92067	Nut—Wing.....	1	.05
92089	Screw—Machine, Fill. Hd.— $\frac{1}{4}$ -20x $\frac{3}{4}$ ".....	1	.05
92125	Screw—Cap, Hex. Hd.— $\frac{1}{4}$ -20x $\frac{1}{2}$ ".....	1	.05
92129	Nut—Hex.— $\frac{1}{4}$ -28.....	1	.05
92208	Screw—Connecting Rod.....	1	.05
92227	Lockwasher—Shakeproof No. 1120.....	1	.05
92235	Screw—Cylinder Mounting.....	1	.10
92236	Screw—Cylinder Mounting.....	1	.10
	Note: No. 92606 Screw—Cap, Hex. Hd.— $\frac{1}{4}$ -28x $\frac{5}{8}$ ".....	1	.05
	No. 90832 Lockwasher— $\frac{1}{4}$ x $\frac{1}{2}$ x $\frac{5}{64}$ ".....	1 4 @	.05
	Used on type No. 306519.		
	To mount cylinder to base.		
92287	Screw—Machine, Round Hd.—10-32x $\frac{1}{4}$ ".....	1 2 @	.05
92290	Lockwasher—No. 10x $\frac{1}{8}$ x $\frac{3}{64}$ ".....	1 3 @	.05
92291	Nut—Fuel Shut-off Valve Packing.....	1	.10
92292	Nut—Hex.— $\frac{3}{8}$ -24.....	1 2 @	.05
92306	Screw—Cap, Hex. Hd.— $\frac{1}{4}$ -28x $\frac{5}{8}$ ".....	1	.05
92307	Screw—Fill. Hd.—10-32x $\frac{5}{8}$ ".....	1	.05
92413	Pin—Cotter— $\frac{1}{8}$ x $\frac{3}{8}$ " long.....	1 2 @	.05
92419	Screw—Machine, Fill. Hd.— $\frac{1}{4}$ -20x $\frac{3}{4}$ ".....	1	.05
92451	Screw—Slotted Hex. Hd.— $\frac{1}{4}$ -20x $\frac{3}{4}$ ".....	1	.05
92506	Screw—Machine, Round Hd.—6-32x1".....	1	.05
92530	Screw—Machine, Fill. Hd.—8-32x $\frac{1}{4}$ ".....	1	.05
92532	Screw—Machine, Fill. Hd.—8-32x $\frac{3}{8}$ ".....	1	.05
92604	Screw—Connecting Rod.....	1	.05
92612	Lockwasher—Shakeproof No. 1228.....	1 2 @	.05
99082	Pedal—Foot Starter.....	1	1.25
99158	Bearing—Ball—Used on NP Engines only.....	8	2.50
99176	Seal—Oil—Used on NP Engines only.....	6	1.25
99180	Tank Assembly—Fuel.....	3	3.25
	Note: No. 29034 Tank Assembly—Fuel (one gallon).....	3	3.50
	Used on type Nos. 306104, 306126, 306520, 306703.		
	For mounting 29034 Tank use:		
	No. 90083 Screw—Machine, Round Hd.—10-32x $\frac{5}{8}$ ".....	1 2 @	.05
	No. 90321 Nut—Square—10-32.....	1	.05
	No. 91366 Screw—Machine, Round Hd.—10-32x $\frac{7}{8}$ ".....	1	.10
99272	Clutch Assembly—Starter.....	1	1.45
	Note: No. 99615 Clutch Assembly—Starter.....	1	1.60
	Used on type Nos. 306702, 306703.		
99288	Cable—Ignition.....	2	.15
	Note: No. 99391 Cable—Ignition.....	3	1.25
	Used on type Nos. 306511, 306516, 306520, 306521, 306702.		
99306	Pedal and Sector Assembly—Foot Starter.....	1	1.25

MASTER PART NO.	NAME	SHIPPING WEIGHT Lbs. Oz.	SELLING PRICE EACH
99307	Pedal Assembly—Foot Starter.....	3	4.00
99339	Lever Assembly—Hand Starter.....	3	4.00
99621	Valve—Needle	3	.50
99622	Float—Carburetor	3	.35
99630	Cleaner Assembly—Air	1	2.50
	Note: No. 89376 Cleaner Assembly—Air.....	1	2.50
	Used on type No. 306402.		
99632	Tooth Assembly—Spring	1	.35
99634	Body—Upper Carburetor	4	2.00
99636	Valve and Seat—Fuel Inlet.....	1	.50
99665	Yoke—Fuel Filter	2	.50
99679	Lever Assembly—Choke	2	.60
99700	Shaft and Lever—Choke.....	2	.50
	Note: No. 23252 Shaft—Choke.....	1	.20
	Used on type Nos. 306126, 306702, 306703.		
99714	Filter Assembly—Fuel	10	1.75
	Note: No. 99910 Filter Assembly—Fuel.....	10	1.75
	Used on type No. 306126.		
99764	Support Assembly—Foot Pedal.....	1 8	1.25
99765	Lever and Support Assembly—Hand.....	2	3.75
99793	Tube Assembly—Control Casing.....	2	.50
99858	Sector Assembly—Starter	14	2.50
99860	Starter Assembly—Foot	3 8	8.50
99865	Support Assembly—Foot Starter.....	2 8	4.25
99868	Shaft and Lever Assembly—Throttle.....	1	.50
99874	Adjuster—Speed	1	.35
99876	Carburetor Assembly	1	7.50
	Note: No. 89507 Carburetor Assembly.....	1	7.50
	Used on type Nos. 306126, 306702, 306703.		
99879	Filter Cover—Fuel	3	.75
	Note: No. 99909 Filter Cover—Fuel.....	3	1.25
	Used on type No. 306126.		
	Includes: No. 290059 Valve—Shut-off	2	.50
	No. 23699 Nut—Shut-off Valve Packing....	1	.15
	No. 27145 Packing—Shut-off Valve	1	.10
99896	Lever—Foot Starter	1	1.50
290017	Crank—Governor	2	.60
290062	Control Assembly—Throttle	4	.75
290166	Gear—Governor	6	1.50
290281	Wire—Ground—37" long	1	.25
290568	Lever Assembly—Control	4	.90
290584	Base—Control Lever	2	.40
290642	Lever—Control	2	.45
290763	Magneto Assembly	6	9.00
	Note: No. 290703 Magneto Assembly.....	6	9.00
	For Mechanical Governor on type No. 306703.		
	Includes: No. 22530 Guide—Air	1	.25
	No. 290020 Wire—Ground	1	.50
	No. 290764 Magneto Assembly.....	6	9.00
	Used on type Nos. 306101, 306120, 306121, 306137, 306138, 306302.		
	Includes: No. 66155 Wire—Ground.....	1	.25
	No. 290767 Magneto Assembly.....	6	10.00
	Used on type Nos. 306516, 306521.		
	Includes: No. 290020 Wire—Ground.....	1	.50
	No. 290769 Magneto Assembly.....	6	10.00
	For Mechanical Governor on type Nos. 306511, 306520, 306702.		
	Includes: No. 22530 Guide—Air	3	.25
	No. 290020 Wire—Ground	1	.50
	No. 290777 Magneto Assembly.....	6	8.25
	For Mechanical Governor on type Nos. 306125, 306126, 306127, 306405, 306510, 306512, 306706.		
	Includes: No. 22530 Guide—Air.....	3	.25

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MASTER PART NO.	NAME	SHIPPING WEIGHT Lbs. Oz.	SELLING PRICE EACH
290779	Case Assembly—Gear	1 8	3.50
290780	Cover Assembly—Gear Case.....	1 4	3.50
290802	Gear and Shaft Assembly.....	3 8	8.00
290868	Plug—Breather	2	.60
290938	Base Assembly—Engine	6	3.75
<i>Note: No. 290941 Base Assembly—Engine.....</i>			
<i>Used on type Nos. 306400, 306401, 306403, 306405, 306700,</i>			
<i>306701, 306706, 306900, 306901, 307100, 307101, 307103,</i>			
<i>307104.</i>			
<i>No. 290943 Base Assembly—Engine.....</i>			
<i>Used on type Nos. 306402, 306404, 306702, 306703, 307102.</i>			
<i>No. 290946 Base Assembly—Engine.....</i>			
<i>Used on type Nos. 306108, 306114, 306127, 306132, 306133,</i>			
<i>306134, 306135, 307003, 307004, 307005, 307006, 307008.</i>			
<i>No. 290969 Base Assembly—Engine.....</i>			
<i>Used on type No. 306519.</i>			
290948	Case Assembly—Gear	12	3.00
290950	Cover Assembly—Gear Case.....	1 4	2.75
290951	Drive Shaft—Gear and Bearing Assembly.....	1	7.50
290963	Rod Assembly—Connecting	12	1.35
290980	Pin Assembly—Piston—Standard	2	.20
290981	Pin Assembly—Piston—.005" O.S.....	2	.35
290983	Bushing Assembly—Gear Case.....	3	.35
291015	Housing and Pulley Assembly—Starter Clutch.....	10	1.25

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