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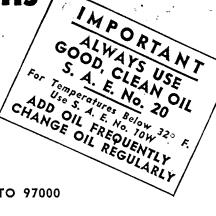
Operating Instructions

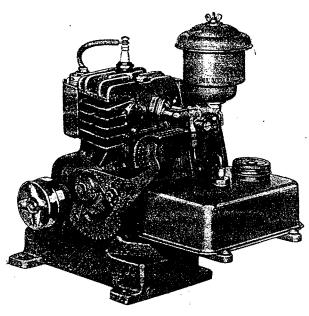
Adjustment and Repair Information • Parts List

MODELS

"WI"—"WIBP"—"WR"

TYPE NUMBERS FROM 25100 TO 25400 AND 95800 TO 97000





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Read these instructions carefully before operating this Motor for the first time.

Guessing how to run it may cause you unnecessary inconvenience, aggravation or failure to receive the fine service that is built into it.

There is a right way to operate this Motor. This book tells you how.

Each Motor is carefully tested and adjusted at the factory before packing for shipment, and if correctly operated will perform beyond your expectations.

DO NOT START THIS MOTOR UNTIL YOU HAVE READ CAREFULLY THE "STARTING AND OPERATING INSTRUCTIONS" ON PAGE 3



IMPORTANT SAFETY INFORMATION AND

INSTRUCTIONS FOR

ENGINE SELECTION ENGINE INSTALLATION ENGINE OPERATION

In the USA and Canada, our 24 hour hotline is:

18002333723

Briggs & Stratton Corporation Milwaukee, Wisconsin 53201

www.briggsandstratton.com

Keep these instructions for future reference.



Before installing and operating this engine read and observe all warnings, cautions and nstructions on both sides of this sheet, on the engine, and in the operating & maintenance instructions.

NOTE: This sheet of instructions and safety information is not meant to cover all possible conditions and situations that may occur. Read entire Operating & Maintenance Instructions for this engine AND the instructions for the equipment this engine powers. Failure to follow instructions and safety information could result in serious injury or death.

The safety alert symbol is used to identify safety information about hazards that can result in personal injury.

A signal word (DANGER, WARNING, or CAUTION) is used with the alert symbol to indicate the likelihood and the potential severity of injury. In addition, a hazard symbol may be used to represent the type of hazard.



DANGER indicates a hazard which, if not avoided, will result in death or serious injury.



WARNING indicates a hazard which, if not avoided, could result in death or serious injury.



CAUTION indicates a hazard which, if not avoided, might result in minor or moderate injury.

CAUTION, when used without the alert symbol, indicates a situation that could result in damage to the engine.

HAZARD SYMBOLS AND MEANINGS Moving Parts Fire Explosion additiblita **Toxic Fumes** Hot Surface Kickback

(OVER)

ENGINE SELECTION



Failure to select the correct engine could result in fire or explosion.

 Some engines are unique and designed for specific applications or types of equipment. If this engine will be used to build new equipment, contact Briggs & Stratton to ensure that the engine is appropriate for the intended use.

Note: For all Go-karts use only a model 136200 series engine, which offers improved safety and performance.

 Replacement engines should be the same model as the original engine, or be the Briggs & Stratton designated replacement engine. Refer to the Operation & Maintenance Instructions for engine identification information.

Note: For all Go-karts use only a model 136200 series engine, which offers improved safety and performance.

 Do not use Briggs & Stratton engines on 3-wheel All-Terrain Vehicles (ATVs), motor bikes, air craft products, or vehicles intended for use in competitive events. Briggs & Stratton does not approve of or authorize such uses.

ENGINE INSTALLATION

- [1] Do not attempt to install this engine if you do not have the appropriate tools and knowledge of small engine installation procedures. Use only Briggs & Stratton parts. Contact your Authorized Service Dealer for assistance.
- [2] Do not modify the engine in any way without Briggs & Stratton factory approval. Any such modification is at the owner's sole risk
- [3] If the exhaust system on the old engine was supplied by the equipment manufacturer, you must transfer the exhaust system and related components (original muffler and related pipes, brackets, clamps, and shields) to the new engine. All components must be in good condition.



[5]

[6]

Install muffler (and muffler deflector if used) so outlet points away from operator, fuel tank, and equipment, and so muffler heat will not damage or deform engine and components.



Ensure all fuel lines and fittings are properly assembled and do not leak. Replacement parts must be the same model as the original.



Ensure all wiring, including safety switches and engine shut-off components are completely installed and functioning properly.

[7] Set engine speed to equipment manufacturer's specification. Refer to equipment manufacturer's manual. Do not tamper with governor springs, or other parts that will increase engine speed above specification.



All engine parts, including fuel cap, spark plug, muffler, air cleaner, and covers and guards for drive components (gears, belts, shafts, couplings, etc.) must be in place before attempting to start engine.



If engine is installed on walk behind lawn mower, all mower components, including cutting blade, must be correctly installed before attempting to start engine.



When working on the engine or equipment, remove spark plug wire from spark plug. For electric start, remove negative wire from battery.



Do not check for spark with spark plug removed. Use Briggs & Stratton spark tester #19368.

ENGINE OPERATION







When adding fuel:

Turn engine off and let engine cool at least 2 minutes before removing gas cap.

Fill fuel tank outdoors or in well-ventilated area. Fill tank to about 1 inch below lowest portion of neck to allow for fuel expansion.

Keep gasoline away from sparks, open flames, pilot lights, heat, and other ignition sources.





When starting engine:

Remove all external equipment/engine loads.

Wait until spilled fuel is evaporated. Start engine outdoors.

Pull cord slowly until resistance is felt, then pull rapidly.

If engine floods, set choke to OPEN/RUN, place throttle in FAST and crank until engine starts.





When operating equipment:

Do not tip engine or equipment at angle which causes gasoline to spill.

Run engine outdoors. Do not run in enclosed area, even if doors or windows are open.

Do not choke carburetor to stop engine.

Starting and Operating Instructions

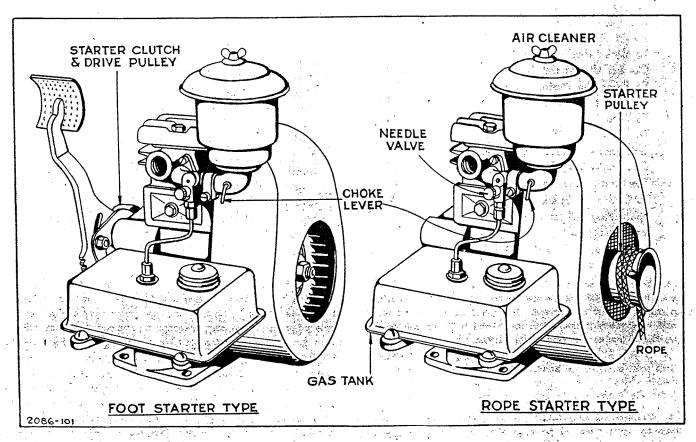
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Before Sta	arting the	Motor.				
How to S	tart		 			. 2
Failure of	Motor to	Start	 			. 3

- 1. BEFORE STARTING THE MOTOR. Fill the crankcase with MOBILOIL ARCTIC or any other high grade oil not heavier than S. A. E. No. 20 for operating motor in temperatures of 32° F. and above. When temperature is BELOW 32° F., use Mobiloil "Arctic Special" or other high grade oil not heavier than S. A. E. No. 10W, HEAVIER OILS MUST NOT BE USED. Remove blue oil filler plug. Fill oil reservoir by slowly pouring in oil at filler opening. CAUTION: BE SURE OIL RESERVOIR IS FULL TO POINT OF OVERFLOWING BEFORE REPLACING OIL FILLER CAP. Crankcase holds 1 pint. Fill air cleaner with oil of the same viscosity as used in the crankcase to the indicated oil level. See paragraph 55. Fill the gas tank with a good grade of clean regular gasoline. Tank holds 1 quart, Do not mix oil and gasoline. See paragraphs 11 to 19.
- 2. HOW TO START. Completely close the choke valve located on air cleaner elbow by turning choke lever clockwise to a horizontal position.
 - A. Foot Starter Type. Step down quickly on starter pedal to prime and start the motor. After motor starts gradually open the choke valve by moving choke lever counter clockwise or down until motor runs smoothly with choke valve wide open. Operate carburetor choke the same as you operate the choke on your automobile. If you wish to start the motor,

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How to	Stop						٠							٠			4	•	٠.		:4	• .	
General	Data										. :						٠		٠.		5	1	

- shortly after having stopped it by choking and while it is still warm, step down on starter pedal three or four times without choking. Then if it does not start, prime as explained above. A hot motor does not require as much priming as a cold one. See paragraph 20.
- B. Rope Starter Type. Slip the knotted end of the starter rope into the notch of the starter pulley and wind the rope around it. Pull the rope with a quick steady pull to prime and start the motor. See plate No. 1. Operate choke as explained under paragraph 2A.
- 3. FAILURE OF MOTOR TO START. If motor fails to start after a reasonable number of trials do not make any adjustments until you have studied the instructions referred to in the Servicing Reference Chart, on page 4.
- 4. HOW TO STOP. To stop models with a suction feed carburetor, as shown in plate No. 4, close choke valve in air cleaner elbow. To stop models with a gravity feed carburetor, as shown in plate No. 4B, press stop switch against spark plug.
- 5. GENERAL DATA. You will find your motor substantially built. It is made of high grade materials by skilled workmen, in a factory fully equipped with the most modern machinery. Before it was shipped, it received many tests and careful inspections.

Plate No. 1



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Servicing Reference Chart

	Paragraph		Paragraph ,
MOTOR FAILS TO START	San Sanga	MOTOR OVERHEATS	
Out of Gasoline	1-16	Out of Oil.	1-13-52
Out of Oil		Oil Needs Changing	
Dirt or Gum in Fuel System		Carburetor Out of Adjustment	
Incorrect Use of Choke		Poor Spark	
Carburetor Out of Adjustment		Carbon Overloaded	
Spark Plug Dirty		- Cronodada - Cronoda - Cronodada - Cronoda - Cronod	
Ignition Cable Grounded		MOTOR LACKS POWER	`
Poor Compression		Air Cleaner Clogged	
Starter Clutch		Lack of Oil	12 to 15
States States		Carburetor Out of Adjustment	
MOTOR STOPS		Motor Not Up to Speed	26-27
Out of Gasoline		Poor Spark	
Out of Oil		Corbon	
Dirt or Gum in Fuel System		Muffler Clogged	56
Motor Overheated		Exhaust Tubing Overloaded	
Motor Overloaded		Overloaded	

Instructions for Adjustment and Repair

Paragra	ph	Paragrap)h
Operating Requirements	8	To Remove and Replace Magneto Assembly 3	4
How a 4-Cycle Motor Works		Magneto Timing 3	35
Keep the Motor Clean		To Adjust and Clean Contact Points 3	6
Use the Right Kind of Oil		To Replace Condenser	
Add Oil Regularly		To Replace and Adjust Armature 3	
Change Oil Frequently		Cylinder Head 4	
Use Clean Gasoline		Compression	
Avoid Gummy Gasoline		Valve Adjustment	
To Clean the Fuel Lines		Piston	
Correct Use of the Choke		Piston Rings	
To Prime the Motor		Piston Pin	50 ·
To Adjust the Carburetor		Connecting Rod	
		Oil Pump	
To Remove and Replace Carburetor		Oil Leaks	
To Remove and Replace Carburetor Throttle		Carbon	
Governor—Correct Motor Speed		Air Cleaner	
Governor—Speed Adjustment		Muffler	
The Ignition System		Exhaust Tubing	5/
To Check for Spark		Overload	58
Spark Plug Adjustment	30	Starter Pedal Adjustment	59
Ignition Cable	31	Starter Clutch	60
To Remove and Replace Flywheel	32	Parts	61 -

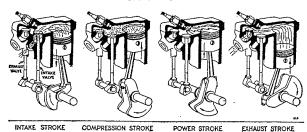
- 6. Your motor will give you better service if you do not tinker with it. This does not mean, however, that it does not require a certain amount of attention. Give it the right kind of fuel, oil, and care. Keep it clean both inside and out. You will be well repaid in trouble-free, satisfactory service.
- 7. If you should experience any difficulty, follow the instructions referred to in the Servicing Reference Chart above. If you cannot easily remedy it, consult your dealer or a nearby Briggs & Stratton Authorized Central Service Distributor, see page 19.
- 8. OPERATING REQUIREMENTS. A gasoline motor to operate properly must have all parts in correct adjustment to provide

good ignition, carburetion, compression and cooling. And of equal importance, the oil and gasoline used must be clean and of the recommended grades. The following instructions fully explain the simple adjustments and offer operating recommendations that will assure you complete satisfaction. We urge you to carefully observe them.

9. The reliability, economy, and ease of starting which characterize this motor are due in part to the fact that it is of the 4-stroke cycle design commonly called "4-cycle," the same design used in all automotive motors. As the name indicates there are four strokes to one complete power cycle.

10. HOW A 4-CYCLE MOTOR OPERATES. On the intake stroke the piston goes down, producing a vacuum in the cylinder, thereby drawing fuel up through the carburetor so that the space above the piston becomes filled with combustible gas. During this stroke the intake valve is open. Next the piston comes up on the compression stroke with both valves closed. At the top of the compression stroke a spark occurs at the spark plug, firing the highly compressed gas. This produces an explosion above the piston which forces it down on the power stroke. Both valves are closed. On the next upstroke of the piston, called the exhaust stroke, the exhaust valve is open, and the burned gases driven out. See plate No. 2.

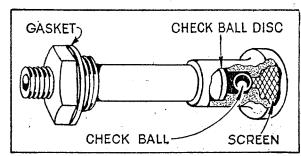
The 4-Stroke Cycle Plate No. 2



- 11. KEEP THE MOTOR CLEAN. It will pay you to keep your motor clean both inside and outside. See that no dirt or water enters motor when filling with oil or gasoline. As a precautionary measure always wipe off the gasoline cap and oil filler plug, as well as around them before refilling. Dirt in the motor or gasoline tank will cause trouble and even serious damage. Also be sure to remove any dirt or grass that may accumulate in flywheel housing or between cylinder fins.
- 12. USE THE RIGHT KIND OF OIL. Correct lubrication is important. We recommend the use of MOBILOIL "ARCTIC" S.A.E. No. 20 for operating this motor in temperatures of 32° F. and above. When temperature is BELOW 32° F., use Mobiloil "Arctic Special" S. A.E. No. 10W. Other high grade oil may be used providing it has similar characteristics and body. A heavier oil which might be satisfactory in a tractor or for lubricating farm machinery must NOT be used. Do not mix oil with the gasoline. This 4-cycle motor is provided with an independent efficient pump lubrication system. There are no external parts which require separate oiling.
- 13. ADD OIL REGULARLY. A motor which is run without oil will be ruined within a few minutes. To avoid the possibility of such an occurrence and the resulting expense, always fill the oil reservoir at the blue plug to the top of the filler plug opening after each five hours of motor operation. Capacity of oil reservoir is 1 pint.
- 14. CHANGE OIL FREQUENTLY. After every twenty-five hours of motor operation, the oil should be completely drained from the crankcase. Do not remove motor from its mounting base. Remove the drain plug located in either end of base. We do not recommend flushing out with kerosene. Replace the drain plug, refill with fresh oil and replace the blue filler plug.
- 15. In the normal running of any motor, small particles of metal from the cylinder walls, pistons and bearings will gradually work into the oil. Dust particles from the air also get into the oil. Sludge, a gummy mass, forms which clogs up the oil passages. If the oil is not changed regularly, these foreign particles cause increased friction and a grinding action which shortens the life of the motor. Fresh oil also assists in cooling, for old oil gradually becomes thick and loses its cooling as well as its lubricating qualities.
- 16. USE CLEAN GASOLINE. A good grade of clean, fresh, regular gasoline is recommended. Too high test gasoline may form vapor-lock in gas line when motor gets hot. This interrupts the

- flow of gasoline and causes motor to stop. Be sure that the small vent hole in the gasoline tank cap is not clogged up, for air must enter the tank to allow the gasoline to flow to the carburetor. Test by blowing through top of cap.
- 17. AVOID GUMMY GASOLINE. If you experience trouble with a gummy, sticky substance with a peculiar sharp obnoxious smell, change to another grade of gasoline. This gum comes from the gasoline and clogs carburetor, gas line, gasoline tank, check valve, etc. You can check your gasoline by evaporating a half pint in an open dish. If a quantity of gum remains, try another kind that is clean and fresh.
- 18. You can avoid most trouble from gum if you will keep the tank full when you are not using the motor. If you use it only occasionally, drain tank completely and refill when motor is used again. The reason for this is that evaporation of stale gasoline causes most gum deposits.
- 19. TO CLEAN THE FUEL LINES. Disconnect the gasoline line at the carburetor and also at the gas tank. Blow through the gas line to clear on models with suction feed carburetors. Remove the gas tank feed pipe which is screwed into the gas tank proper. At its base you will find a screen which may be clogged. To determine whether this pipe itself is clear, blow through the pipe from the screen end. There is a check ball in the base of this pipe which must be free. See plate No. 3. Check ball must close air passage when blowing through opposite end of pipe When replacing gas pipe in tank, be sure to place gasket be tween gas tank and gas pipe nut. On models with gravity feed carburetors, clean out the gasoline filter bowl and screen. Also see that gasket is not torn. IMPORTANT: If you find a gummy varnish-like substance, alcohol or acetone will dissolve it. See paragraphs 17 and 18.

Gas Pipe Plate No. 3



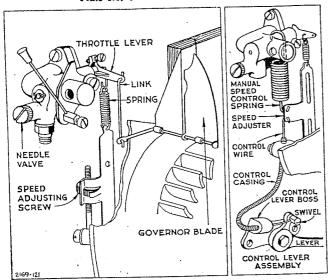
- 20. CORRECT USE OF THE CHOKE. The correct carburetor setting (see paragraph 23) gives the motor the best mixture to run on when it is hot. For starting, it is necessary to choke the carburetor to get a rich mixture, because cold gasoline does not vaporize readily. A warm or hot motor requires very little choking. Until you become familiar with your motor, however, you may make the mistake of not choking the carburetor enough or you may choke it too much. If motor fails to start after cranking three or four times with the choke up, or closed, try cranking two or three times with the choke partly closed and then all the way open. Use motor choke the same as you use an automobile choke.
- 21. TO PRIME THE MOTOR. The motor may fail to start for the reason that either the carburetor is incorrectly adjusted or dirty, or the fuel line or gas pipe check valve in the gasoline tank is dirty or clogged, or you are out of gasoline. To determine the cause, prime the motor by removing the spark plug and pour a half teaspoonful of gasoline into the spark plug and pour a half teaspoonful of gasoline into the spark plug opening. Replace the spark plug and crank the motor. If it fires for three or four revolutions and stops, the difficulty is definitely in the fuel system. See paragraphs 19, 22 to 25. If motor will not fire at all, check the ignition system, see paragraphs 28 to 40; also compression, paragraphs 42 to 49.

- 22. TO ADJUST THE CARBURETOR. The carburetor shown in plate No. 4 is a suction type feed and that in plate No. 4-B is a gravity type feed. The gasoline supply with both types of carburetors is regulated by a needle valve. At any set speed the throttle is automatically controlled by the governor. For speed adjustments see paragraphs 26 and 27 Å and B.
- 23. To adjust the carburetor, completely close needle valve by turning to right or clock-wise as far as possible. Do not screw up too tight or use force when closing needle valve, or the seat, or taper of needle valve may be damaged. From closed position, open needle valve one complete turn. After the motor has been started and warmed up with the choke wide open, make final adjustment by turning the needle valve to the point at which motor operates most smoothly with full load. This setting will also take care of starting with use of the choke. When starting cold motor, if it is necessary to keep choke partially closed several minutes before motor runs smoothly, carburetor setting is too lean and needle valve should be opened a notch or two—turn to left. If the carburetor throttle on motors with the suction type

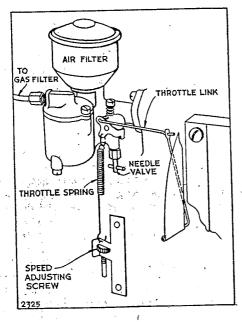
Carburetor and Governor Hook-up
Fixed Speed Control
Plate No. 4

Carburetor and Governor Hook-up

Manual Speed Control
Plate No. 4-A



Gravity Type Carburetor Plate No. 4-B



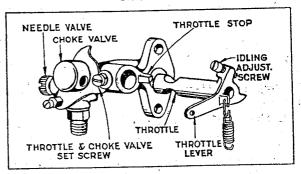
feed acts sluggish or motor does not govern smoothly, it is usually caused by a dirty or gummy throttle. See paragraph 25. For governor adjustments see paragraph 27 A and B.

24. A. TO REMOVE AND REPLACE CARBURETOR. To remove suction feed carburetor disconnect gasoline line from carburetor. Remove blower case. Remove valve cover plate. Loosen two carburetor mounting screws. Carefully remove carburetor and, without stretching governor spring, unhook its lower end. Do not remove governor spring or link from throttle lever. Then unhook carburetor from the throttle link. To remove gravity feed carburetor, close shut-off valve at gas filter and disconnect gasoline line. Remove blower housing with tank attached. Remove air cleaner from carburetor. Unhook governor spring at lower end. Remove two carburetor mounting screws. Hold carburetor in left hand and with right hand bring governor link toward you. Tip carburetor up slightly and unhook governor link from throttle lever. Do not remove governor spring link from throttle lever. To replace, reverse the operations as performed above.

CAUTION: Be sure to replace the carburetor gasket. In replacing the throttle link be sure that the upper or hooked end is away from the carburetor. See plate Nos. 4 and 4 B. The throttle link must operate freely in the governor arm blade and carburetor throttle lever.

- B. Manual Speed Control. Unhook manual speed control spring from carburetor body. See plate No. 4-A. All other operations same as paragraph 24-A.
- 25. TO REMOVE AND REPLACE CARBURETOR THROTTLE. To clean the carburetor throttle in suction feed type, remove the carburetor as explained in the previous paragraph. Then remove throttle cotter pin and washer and slip throttle from body. Clean in alcohol or acetone. Do not scrape.

Carburetor Throttle

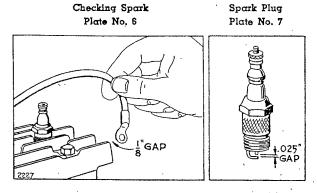


26. GOVERNOR—CORRECT MOTOR SPEED. The speed of your motor at any set speed is automatically maintained under varying loads by a pneumatic governor. It is operated by the air current blown by the flywheel. The governor was carefully adjusted at the factory to maintain normal speed under load. Do not re-adjust unless absolutely necessary. Recommended speed is from 2500 to 2900 R.P.M.

27. GOVERNOR SPEED ADJUSTMENT.

- A. Fixed Speed Control. A speed adjuster is located beneath carburetor on magneto plate. To increase motor speed, turn speed adjusting nut counter clockwise. To decrease speed, turn speed adjusting nut clockwise. See plate No. 4. To remove governor parts, see paragraph 24-A.
- B. Manual Speed Control. To increase motor speed pull lever so that swivel moves away from control lever boss. To decrease speed push lever so that swivel moves toward control lever boss. See plate No. 4-A. To remove or replace governor parts, see paragraph 24-B.

- 28. THE IGNITION SYSTEM. The spark is produced by a high tension magneto consisting of armature, condenser, contact points and rotating magnets cast in the flywheel. This is a simple self-contained system which is very reliable. It also does away with batteries. The ignition current is sent into the motor cylinder through the ignition cable and spark plug. The magneto itself as well as the cable and spark plug must all be in proper condition and adjustment to insure a good hot spark.
- 29. TO CHECK FOR SPARK. To prove that a satisfactory spark is being delivered by the magneto, remove the ignition cable from the plug. Hold ignition cable terminal about 1/5" from any metal part of the cylinder head (keep hand on insulated part of the cable to avoid a shock). Turn motor with starter, and if the spark jumps this gap the entire ignition system, with the exception of the spark plug, is O.K. See plate No. 6. To check spark plug see paragraph 30.) If no spark, check cable, see paragraph 31, and refer to magneto adjustments paragraphs 32 to 40.



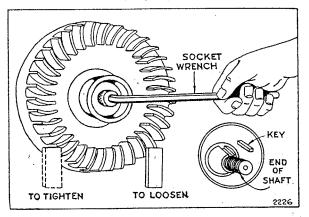
30. SPARK PLUG ADJUSTMENT. Spark plugs should be cleaned and points reset to .025" after each 100 hours of operation. See plate No. 7. Points burn away in service. The porcelain is to prevent the spark from jumping anywhere except at the gap, and if cracked or broken it will prevent the plug firing. Water on the outside of the spark plug may permit the high voltage current to leak over the surface of the porcelain. Dirt or carbon on it will do the same "hing. The spark plug can be cleaned by washing off the carbon with gasoline or kitchen scouring powder. Points should be scraped or sandpapered. See plate No. 7. Always keep a new plug on hand. We recommend the use of Champion 18 or its exact equivalent.

When reassembling spark plug to cylinder head put a little graphite grease on threads. Do not get grease on points.

- 31. IGNITION CABLE. Insulation must not be broken or soaked with oil or water or grounded in any way where it touches the motor, or it will interfere with good ignition. To check cable all the way to magneto it is necessary to remove blower case. Ignition cable should be securely wound to the secondary terminal loop of the coil. See plate No. 11.
- 32. TO REMOVE AND REPLACE FLYWHEEL. The flywheel is securely mounted to the crankshaft by means of a taper fit, a key and a left-hand nut and spring washer.
 - A. Rope Starter Motors. Remove the blower housing. Bolt or clamp motor to work bench. Place a wood block under flywheel fin on right side of flywheel or a small rod between fins to hold it rigid and prevent turning as you loosen nut. See plate No. 8. Use large wrench, 10 inch or bigger. To start nut to the RIGHT, tap end of wrench handle lightly with hammer. Tap carefully or a broken fin may result, which will throw flywheel out of balance. After nut is removed, loosen flywheel by placing the wood block against end of crankshaft and striking with a hammer. Pull off flywheel.

- B. Hand Lever and Foot Starter Motors. On models with starter on blower housing side of motor, remove starter assembly, loosen set screw and slip clutch housing from shaft, remove blower housing and proceed to remove flywheel as in "A." See plate No. 8.
- 33. To reassemble, locate flywheel on crankshaft with key and install spring washer with the hollow or concave side next to the flywheel. Turn nut to LEFT until tight. Then use block under fin on left side of flywheel or rod between fins to hold flywheel rigid and draw nut up very tight by tapping wrench handle with hammer.
- 34. TO REMOVE AND REPLACE MAGNETO ASSEMBLY. After removing the flywheel as explained in paragraph 32, remove contact point dust cover held in place by two mounting screws.

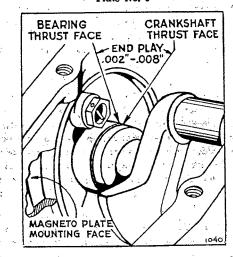
Removing Flywheel Plate No. 8



Remove valve cover plate, remove carburetor, see paragraph 24 A and B. Unhook governor spring, detach the ignition cable from spark plug and unscrew the four magneto plate mounting screws. To replace, use same gasket between the plate and crankcase, or if damaged, a new gasket, see part numbers 67307, 67597, 67607 of proper thickness to get correct end play of .002" to .008" between magneto bearing and crankshaft thrust faces, as shown in plate No. 9. Use lockwashers under mounting screws.

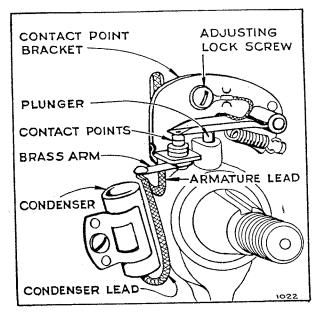
35. MAGNETO TIMING. Magneto assembly is always correctly timed with the motor when the flywheel is assembled to the tapered crankshaft with a key and securely held in place with LEFT hand threaded nut. Do not attempt to change the timing by relocating any parts or filing crankshaft timing flat. Always use soft key part No. 61760—if steel key is used and flywheel becomes loose, it will damage the keyway in the crankshaft.

Correct End Play
Plate No. 9



36. TO ADJUST AND CLEAN CONTACT POINTS. Remove blower housing and flywheel. Turn crankshaft by hand to see if contact points open and close properly. Points must be clean and line up squarely to make good electrical contact. Do not use a steel file on contact points—use a carborundum contact point file. Adjust gap to .020" by loosening the adjusting lock screw and moving contact point bracket up or down. When proper gap is obtained tighten lock screw securely. If either or both points become badly pitted or burned and need replacement, always order complete assembly Part No. 29667.

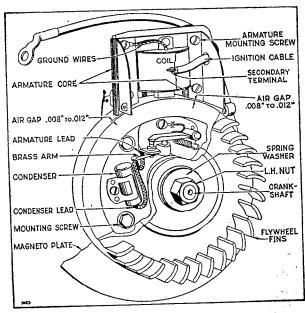
Contact Points and Condenser Plate No. 10



- 37. TO REPLACE CONDENSER. A leaky or weak condenser may cause the motor to start hard, to sputter or misfire under load. If motor misfires after checking gasoline line, carburetor, spark plug, cable and contact points, install a new condenser. Both the condenser lead and armature lead must be soldered to bross arm, see plate No. 10. Be sure to push condenser lead down between condenser and hub of magneto plate so it cannot rub against flywheel.
- 38. If after new condenser has been installed the ignition system still does not deliver a satisfactory spark, we recommend sending the complete magneto unit including flywheel to the nearest Briggs & Stratton Service Distributor for proper adjustment.
- 39. TO REPLACE AND ADJUST ARMATURE. Remove primary armature lead wire of coil from brass arm on contact bracket. Remove high tension ignition cable from secondary terminal loop in coil. Unscrew four armature mounting screws. After installing new armature be sure that condenser lead wire and armature lead wire from coil are soldered to brass arm on contact bracket. See plates Nos. 10 and 11. Replace mounting screws, inserting loop of ground wire under screw and draw screws up tight.
- 40. Air gap of .008" to .012" must be maintained between armature core ends and flywheel. Gap must only be sufficient to prevent rubbing, but not over .012", or poor ignition will result. To adjust gap to proper clearance, loosen the four armature mounting screws, slide armature assembly up and place correct feeler gauge or 3 thicknesses of newspaper between rim of flywheel and armature core ends. Lower armature assembly until core ends rest on gauge or paper and tighten mounting screws securely. See plate No. 11.
- 41. CYLINDER HEAD. The cylinder head is held on with six cap screws. When the cylinder head has been removed for the

purpose of cleaning carbon or grinding valves, care should be used in replacing it. Use a new gasket if possible. Otherwise clean the old one and coat both sides with cup grease. We do not recommend the use of shellac on cylinder head gaskets. Tighten each cap screw a little at a time so that the cylinder head is pulled down evenly. Screws need be only moderately tight.

Complete Magneto Assembly
Plate No. 11



- 42. COMPRESSION. Proper compression is obtained when valves seat properly, gaskets do not leak and piston and rings are properly fitted. When tuning up a motor, it is always well to check compression. This is done by turning the motor over slowly. If a point of resistance is offered every other revolution, compression should be satisfactory. If motor turns over without compression resistance for a full cycle, a worn piston, piston rings, cylinder wall, or leaky valves or leaky gaskets are present. See that spark plug has a gasket under it and is drawn up tight. Also check cylinder head gasket and tighten cylinder head bolts.
- 43. VALVE ADJUSTMENT. To check valve clearance remove valve cover plate on cylinder below carburetor. The correct clearance on the exhaust valve is .014" to .016" and on the intake valve .005" to .007" when the motor is cold. Tappet clearance is adjusted by grinding required amount from the end of valve stem. End of stem must be square with the stem proper.
- 44. To remove the valves, remove cylinder head and, if not dismantled, drain oil from crankcase. Invert cylinder. Compress the

Valve Timing — Plate No. 12

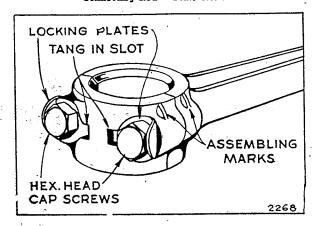
MARK
CAM GEAR
ON
CRANKSHAFT
COLLAR
O
MAGNETO SIDE OF MOTOR

Bright 18

valve spring with a screw driver and pull out valve retainer pin with long nose pliers. Tilt cylinder back far enough to allow valve to drop, permitting its stem to clear the spring. Pry the spring out with screw driver. To replace, reverse the operations as performed above.

- 45. To reseat valves, grind in same manner as automobile valves. If valves stick they may be coated with gum or carbon. To remove gum use alcohol or acetone. Clean valve stems thoroughly with wire brush or emery cloth. Also scrape all carbon from valve ports.
- 46. The timing of the valves is taken care of by the meshing of the cam gear with the gear on the crankshaft. These gears are properly meshed when the mark on the cam shaft gear is in line with the mark on the crankshaft collar.
- 47. PISTON. The piston in this motor is made of a special aluminum alloy which is very light in weight. The clearance between the piston and cylinder wall is .005" to 0065". The top and second lands of the piston are smaller than the skirt to allow for greater expansion at the piston head. This clearance is to compensate for the expansion of aluminum when hot. When piston is removed be sure to clean carbon from head of piston and ring grooves. If piston is out of round or scored it should be replaced.
- 48. When fitting a new piston in the motor, assemble it with the free side pin hole (indicated with an "X" on boss) toward the magneto side. If an oversize piston is necessary, we recommend that reboring be done by an Authorized Central Service Distributor listed on page 19.
- 49. PISTON RINGS. The piston rings when fitted in the cylinder should have a gap from .007" to .017". The rings should be fitted in the cylinder below the piston ring travel. Before assembling new rings to piston be sure that piston ring grooves are thoroughly cleaned, and rings fit free in the grooves.
- 50. PISTON PIN. The piston pin is a free fit on one side of the piston and a tight fit in the other. To remove this pin without special equipment it is advisable to heat the piston in boiling water which causes the aluminum to expand. Cut a wooden pin a little smaller than the size of the piston pin and use this and a hammer to drive the pin out. Drive the pin out through the free fit hole. This hole is toward the magneto side and is indicated with an "X" on the pin hole boss. You should, of course, drive the pin out while the piston is still hot. To easily replace the pin, the piston should be heated. In later model motors the piston pin is a slip fit in the piston. To remove it from the piston first remove the lock rings, then slip pin out of piston.
- 51. CONNECTING ROD. The connecting rod is also made of a special aluminum alloy which combines strength with light weight. When assembling connecting rod to crankshaft, the as-

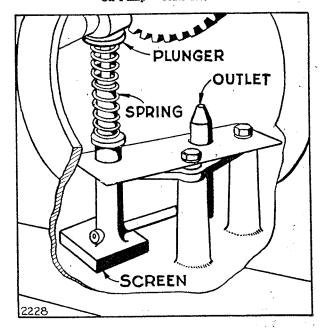
Connecting Rod - Plate No. 13



sembly marks on the lower bearing must be toward the magneto side. The assembly marks on cap and rod must be on the same side. On motors after serial No. 108719, place locking plate tang in slot and bend locking plates against hexagon head. See plate No. 13.

52. OIL PUMP. The oil pump is assembled to the base. An inoperative pump will result in insufficient lubrication which may score the cylinder and piston assembly. To check oil pump, remove from base. Place pump in α pan of oil about ½" deep. Work plunger up and down. If oil is sprayed out, oil pump is in good working condition. If clogged, submerge complete unit in gasoline or kerosene for three or four hours to loosen accumulated sludge or gum. If still inoperative it should be replaced. In assembling, be sure that spring and plunger are in place.

Oil Pump --- Plate No. 14

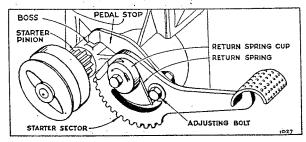


- 53. OIL LEAKS. If oil leaks from either end of crankshaft, remove base plate from motor. Oil return valves are screwed into crank case and magneto back plate at base of main bearings. Remove oil return valve and clean or flush with gasoline and blow out any dirt lodged under the small disc. See plate No. 9.
- 54. CARBON. Excessive carbon is caused by improper grade of oil—too much oil, usually the result of piston rings not seating properly or sticking—carburetor set too rich—or long service. An unusual amount of carbon is noticeable by motor knocking or loss of power. Occasionally remove carbon from piston head, cylinder head and top of cylinder bore.
- 55. AIR CLEANER. The air cleaner is to protect the motor from dust and dirt. No motor can stand up under the grinding action that takes place when dust and dirt particles are drawn into the motor through the carburetor. Air cleaners should be cleaned occasionally as follows:
 - OIL BATH TYPE. Wash the outside of the filter element with a rag or brush dipped in gasoline or kerosene. Do not submerge. Then clean the bowl by submerging it in gasoline or kerosene. Fill cleaner with oil of the same viscosity as used in the crankcase up to the level marked on cleaner. See Instructions on air cleaner label.

MOSS TYPE. To clean this type of air cleaner, remove it from carburetor. Remove moss from cleaner and wash in gasoline or kerosene.

- 56. MUFFLER. After long periods of service it is possible that the muffler will become clogged to the point where it will affect the motor's power. To check the muffler unscrew it from the motor and run water into the open end of the muffler. If full streams of water come out of the 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.
- 57. EXHAUST TUBING. A certain amount of water forms inside of the exhaust tube after it cools off due to condensation. After motor is stopped, place exhaust tube so that water from condensation cannot drain into exhaust port of motor to corrode the mechanical parts and eventually result in trouble. If exhaust pipe is too long, or clogged, back pressure will reduce motor power.
- 58. OVERLOAD. Always be sure that the machine the motor is operating is well lubricated and running freely. If it is not, it may cause the motor to become overloaded, resulting in it overheating, losing power, or even stopping entirely.
- 59. STARTER PEDAL ADJUSTMENT. The starter pedal is made in two parts, the pedal proper and pedal stop, held together with the adjusting bolt. To adjust, loosen the bolt and set pedal to destred position. Adjust the pedal to get the longest possible stroke without striking any part of the machine. The first tooth on the starter sector must clear the teeth of the starter pinion. Should the starter pedal return spring loosen or lose its tension, loosen the bolt which holds the return spring cup. 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

Starter Pedal Adjustment Plate No. 15

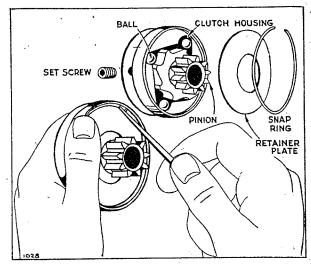


the bolt. Too much tension may cause spring to break. Be sure the spring is in the proper position with the long end below the pedal adjusting bolt and the hooked end in the slot of the cup.

50. STARTER CLUTCH. If the starter clutch slips or falls to turn the motor, 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.

First tighten the set screw to be sure clutch is tight on the crankshaft. Use $\frac{1}{16}$ " Allen hexagon set-screw wrench. If the clutch still slips, loosen set screw and remove clutch from the shaft. Pry out the snap spring with a sharp tool, holding the clutch in the position shown in plate No. 16, as a caution against the spring jumping out. Check the parts carefully for wear or damage and replace those necessary. 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. 16



61. PARTS. All parts should be ordered from your dealer or nearest Briggs & Stratton Service Distributor, listed on page 19.

Repair Parts

Paragra	ph
Always Give Type, Model and Serial Number	63
How to Make Out Parts Order	65
Prices	

- **62.** To assure continued satisfactory performance, do not attempt to use substitute repair parts when overhauling or repairing the Briggs & Stratton Motor. Insist that all repair parts be original Briggs & Stratton parts.
- 63. ALWAYS GIVE TYPE, MODEL AND SERIAL NUMBERS. Briggs & Stratton motors are identified by a type number, model letter and a serial number. This information is stamped on a metal plate attached to the blower housing.
- **64.** When writing to the factory or to a Central Service Distributor for service information, or when ordering new parts, be sure to specify the type number, the model, and the serial number of the motor to be serviced. This will assure prompt and efficient service without unnecessary correspondence.
- 65. HOW TO MAKE OUT PARTS ORDERS. Print your name and address plainly and correctly. Do not abbreviate name of

													Pa	ge
Parts	List				 						l	t	Ó	16
Parts	Illustrations						٠.	ď				٠. ا	7-	18

town or state. Specify on the order how shipment to you is to be made. This will assist in giving prompt and efficient service.

- 66. Give part number and name of parts wanted. (Do not use number cast on parts.) You will find the part number, names and prices on pages 11 through 16, and parts illustrations on pages 17 and 18
- 67. After you have made out order, check back to see that you have followed all instructions and have accurately listed what you want.
- 68. Shipments will be made C.O.D. or send remittance with order to cover parts and add what you think will be sufficient tor postage. Send postal or express money order, bank draft or certified check for this amount. Do not send currency in a letter. It is not safe.
- 69. PRICES. The nearest member of our service organization will be glad to give you prices on the parts you need on request.

TO FIND THE CORRECT NUMBER OF THE PART YOU NEED

- Make a note of your motor TYPE NUMBER (Not the Serial Number) that appears on the metal nameplate attached to motor blower housing.
- Refer to pages illustrating parts and locate the Master Part Number by comparing your old part with the illustrations. Assemblies include all part numbers bracketed in illustrations. All parts shown in assembly brackets on which part numbers are given can be purchased separately.
- After the Master Part Number has been identified, refer
 to the following Parts Lists where these Master Part
 Numbers are listed in numerical order.

The Master Part is used on all types of motors except those types listed under "Note."

- 4. 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.
- If two or more parts are bracketed () under "Note,"
 they are used to replace the Master Part on the type
 numbers shown.
- If your motor Type Number does not appear after any part number listed under "Note," order the Master Part Number.
- When ordering parts—or writing for service information
 —always specify the MODEL LETTER—TYPE NUMBER
 —and SERIAL NUMBER of your motor.

Parts List

Models "WI"-"WIBP"-"WR"

MASTI PART	.	SHIPPING WEIGHT		STER IRT	SHIPPING WEIGHT
NUMB	ER NAME	Lbs. Oz.	NUN	MBER NAME	Lbs. Oz.
21283	Ring - Piston, Compression, Top-	-	2283	4 Washer Control Lever	1
	Standard	1	2285		
21310	Body—Breather		2285		
	Used on engines with insid	le	2287		
0.7.077.0	breathers.		2301		
21376	Ring — Piston, Compression, Top-		2305		
21377	.010" O.S			Note: No. 91539 Key $-\frac{3}{16}$ " Squa	
41077	.020" O.S			Used on type Nos. 95838,	95845
21378	Ring - Piston, Compression, Top-			95860, 96815, 96818, 96824.	00010,
	.030" O.S	1	2306		1
21416	Bracket — Fuel Tank (Replaced b	У	2306	2 Bushing—Intermediate Gear	2
07.401	No. 22854)		2306		
21461	Bracket — Fuel Tank (Replaced h	Y	2306		
02013	No. 22854)	0	2307		
22020	Cover—Valve		2307	77 Pinion—Starter	4
22025	Washer—Throttle Shaft		2310		
22049	Plate—Oil Baffle		2318	Retainer—Valve Spring	1
22078	Brace—Carburetor		2318		
22073	Lock—Connecting Rod Screw		2321	15 Spacer—Baffle Plate	1
22206	Shield—Cylinder		2325	51 Stud—Carburetor Bowl	1
22216	Cover—Breather Valve		2344	13 Pin—Dowel	l
LAAIO	Used on engines with inside		. 2344	14 Stud-Valve Cover	1
	breathers.			Used on engines with	inside
22217		1		breathers.	
	Used on engines with insid			Note: No. 91707 Screw—Valve	
	breathers.			Used on engines with c breathers.	บนเราตอ
	Note: No. 62703 Shield—Oil Spray.		2357		1
	Used on engines with outside	de	2358		
22238	breathers.	,	2369		
22243	Washer—Cylinder Mounting			Used with %" dia. shut-off	
22247	Washer—Cylinder Mounting Bushing—Cylinder	1 3		Note: No. 23346 Nut - Fuel S	hut-off
	Note: Used on power Take-off side			Lever	1
	Model "WR" engines.	OI .		Used with $\frac{3}{16}$ " dia. shut-off	lever.
22353	Washer-Valve Cover	1	2391		
22368	Washer—Control Lever		2602	1	
22372	Clamp—Casing	. 1	. 260	25, Spring—Pedal Return	
4.5	Note: No. 22054 Clamp—Casing	1		Note: No. 26510 Spring—Lever	
400	Used on type Nos. 25151, 2515	3,	260	Used on type No. 96947. 26 Lock—Piston Pin	
	000 17, 00070, 00070, 00000, 000	,	260		
	95974, 96820, 96834, 96835, 9683	36,		34 Link—Governor Spring	• • • • • • •
00547	96854, 96917, 96933.			Note: No. 26117 Link - Go	
22547	Tibolangua 110			Spring	1
	Note: For Screen with round he			Used on type Nos. 95965,	95971,
22725	order No. 62876			95981, 96928, 96930, 96940.	•
. 44/43	Washer-Control Lever	1	260	35 Spring—Stop Pin	1

MAST		HIPI	PING	MAST	ER	SHIP	PING
PAR' NUMB	TT	WEI		PAR'	T		GHT
26050	Wire—Control—761/4" Long	Lbs.		NUMB		Lbs.	Oz.
	Note: If longer wire is needed, specify		0.	2/323	Gasket—Breather Body	• ••	1
	length in inches, if shorter wire	,		29671	Point Assembly—Contact		2
	is needed, order No. 26050 and	L		29693	Plug—Spark (with Gasket)		6
26121	cut to required length. Crankshaft	3	•	29739	Piston Assembly—Standard		8
	Note: No. 26115 Crankshaft	3		29767	Rod—Chcke		1
	Used on type No. 95833.			29778	Piston Assembly—.010" Oversize		8
	No. 26127 Crankshaft		••	29779	Piston Assembly—.020" Oversize		8
	Used on type Nos. 25175, 25177. No. 26135 Crankshaft	3		29780	Piston Assembly—.030" Oversize		8
	Used on type Nos. 95805, 95820		••	29786 29796	Sector Assembly—Starter		14
	95823, 95827, 95861, 95886, 95887			29801			5
	96807, 96810, 96825, 96841, 96842			29806			2 1
	No. 26146 Crankshaft Used on type Nos. 25200, 25225	3		29821			8.
	25227.			,	Note: No. 29800 Carburetor Assemble		8
	No. 26150 Crankshaft	3			Used on type Nos. 95950, 96918		
	Used on type Nos. 25325, 25382, 95924, 95938, 95943, 95944, 95945				No. 99778 Carburetor Assembly	٠	8
	95946, 95947, 95949, 95952, 95955			29829	Used on type No. 95948. Housing—Blower	2	
	95957, 95959, 95960, 95968, 95974			20020	Note: No. 99426 Housing Blower		
	95980, 96902, 96903, 96906, 96907		•		Used on type Nos. 95965, 95971		••
	96912, 96914, 96916, 96917, 96920, 96922, 96924, 96925, 96929, 96933				95981, 96928, 96930, 96940, 96946		
	96939, 96948.			20025	96947.		
	No. 26177 Crankshaft		••	29835 29861	Flywheel—Magneto		2
	Used on type Nos. 95825, 95831, No. 26205 Crankshaft			29863	Outlet Assembly—Fuel Tank		2
	Used on type Nos. 95838, 95845,	٥	-	29870	Tank Assembly—Fuel	. 1	8
	95854, 95860, 95871, 95877, 96815,				Note: No. 29034 Tank Assembly—Fue		8
	96818, 96824, 96831.	_			No. 62965 Strap—Tank (2)		3,
	No. 26310 Crankshaft	3	••		No. 90321 Nut—Square—10-32 (4 No. 90083 Screw—Machine, Ro		1
	96923, 96927.			Ì	Hd.—10-32x%" (2)		1
	No. 26395 Crankshaft	3			No. 91366 Screw—Machine, Ro		
	Used on type Nos. 95972, 95973, 96931, 96932.			İ	Hd.—10-32x%8" (2)		1
	No. 99312 Crankshaft	.3	•		No. 92290 Lockwasher — No 10x 1/6 x 3/4" (4)		1
	Used on type Nos. 25100, 25103,				No. 67072 Washer (2)		1
	25104, 25105, 25106, 25107, 25108, 25109.			İ	Used to mount No. 29034 Fue		
	No. 99348 Crankshaft	3	••		Tank on type Nos. 95965, 95971		
	Used on type Nos. 25125, 25127,				95981, 96928, 96930, 96940, 96946 96947.	,	
	25128, 25129, 25130, 25131, 25150, 25151, 25153, 25154, 25155, 25156.				No. 29865 Tank—Fuel	. 1	8
26152	Spring—Pedal and Lever Return		1		Used on type No. 25104.		
26172	Spring—Pump Plunger		1	29878	Rope—Starter		8
26267	Spring—Control Wire Return		1	38852 61703	Washer—Armature		1 8
26328	Spring—Governor	••	1	1	Ring—Piston, Compression, Center—		U
	Note: No. 26111 Spring—Governor Used on type Nos. 95965, 95971,	•-	1		Standard		1
	95981, 96928, 96930, 96940, 96946,				Ring—Piston, Oil—Standard		1
26220	96947.		_		Ring—Piston, Compression, Center—		1
26330	Spring—Breather Retainer		1 .		.010" O.S		1
	breathers.			61769	Ring—Piston, Compression, Center—		,
26398	Link—Throttle		1	61770	.020" O.S		1
	Note: No. 62893 Link—Throttle Used on engines before Serial	••	1		.030" O.S		1
	No. 348424.				Ring—Piston, Oil—.010" O.S		1
	No. 26116 Throttle—Link		1	61772	Ring—Piston, Oil—.020" O.S Ring—Piston, Oil—.030" O.S		l l
	Used on type Nos. 95965, 95971, 95981, 96928, 96930, 96940, 96946,		•		Bracket—Fuel Tank (Replaced by No		
	96947.				22858)		
26478	Spring—Exhaust Valve		1	,	Note: Used on carburetor side of en gines equipped with base using		
26657 27043	Spring—Throttle Adjustment		1		eight mounting screws for mount		
2.010	Note: Used on all engines equipped		1		ing to cylinder.		
	with locating dowel pins for	1			No. 61881 Bracket—Fuel Tank.		
,	mounting cylinder to base. On				Used on type Nos. 95809, 95810 95818, 95826, 95839, 95846, 95878		
	engines using eight screws for mounting cylinder to base see				95948, 95954.		
	Part No. 68337 Gasket.	*	1	61944	Head—Cylinder		
27110	Gasket—Gear Cover—.010" Thick	•	1		Note: No. 21097 Head—Cylinder		
27111 27145	Gasket—Gear Cover—.005" Thick Packing—Fuel Shut-off Lever	•• *	1	1	Used on type Nos. 95841, 96816 No. 21340 Head—Cylinder		
	Used with %" dia. shut-off lever.	**	*		Used on type Nos. 95965, 95971		
	Note: No. 27019 Packing—Fuel Shut-		•		95981, 96928, 96930, 96940, 96946		
	off Lever	-	1	61947	96947. Housing Starter Clutch		1
	16 and stideout level.		-	(0134/	Housing—Starter Clutch	•-	1

MAST PAR			IPPII			PPING
NUME			EIGI s. C			IGHT
	Housing—Starter Clutch				NUMBER NAME Lbs	s. Oz.
	Note: No. 21335 Housing — Start	• •	1	••	63794 Pinion—Starter	4
	Clutch	er	-1	<i>A</i>	63807 Valve—Exhaust	. 2
	Used on type Nos. 95965, 9692	α	. 1	· ·	63810 Valve—Needle	1
	96946, 96947.	٠,			63821 Wrench—Scaket Head Screw—5"	
	No. 21417 Housing - Start	er			63949 Stud—Air Cleaner	1
	Clutch		1	4	63965 Plunger—Oil Pump	1
	Used on type Nos. 95971, 9693				65294 Washer—Fuel Tank Outlet	1
	No. 21475 Housing — Start	er			65304 Washer—Filler Cap	1 1
	Clutch	· · ·	1	4	65534 Gasket—Filler Cap	1
	No. 61700 Housing — Start	or			65616 Casing—Control Wire 72" Long	8
	Clutch		1		Note: If longer casing is needed,	•
	Used on type No. 95948.				specify length in inches; if	
	No. 61781 Housing — Start			•	shorter casing is needed, order	
	Clutch		l.		No. 65616 and cut to required	
	Used on type Nos. 95905, 9595	6,			length. 65664 Washer—Ploat Valve Seat	,
	96921. No. 61806 Housing — Start				65704 Plunger—Contact Point	1
	Clutch	er . 1	1		65787 Gasket—Fuel Pipe Connector	1
	Used on type No. 95935.			-	65794 Insulator—Armature	1
	No. 61937 Housing — Starte	ər			65968 Disc—Breather Valve	î
	Clutch	. 1	١.	_	Used on engines with inside	-
	Used on type Nos. 95919, 9593	9,			breathers.	
62007	96911.				66114 Washer—Cylinder Mounting	1
02007	Clamp—Fuel Tank	• -	.]		66186 Spring—Throttle Adjusting	1
	Note: No. 62965 Strap—Fuel Tank Used on type Nos. 95965, 9597	• -	. 3	3	66416 Casing—Control Wire—934" Long	8
	95981, 96928, 96930, 96940, 9694				Note: If longer casing is needed,	
	96947.	٠,	5		specify length in inches; if	
	No. 90321 Nut-Square-10-32 (4)	. 1		shorter casing is needed, order No. 66416 and cut to required	
	No. 90083 Screw—Machine, Ro	ŀ.			length.	
	Hd.—10-32x%" (2)		. 1		66432 Washer—Speed Adjuster and Control	
	No. 91366 Screw—Machine, Ro	ł.			Casing	1
	Hd.—10-32x78" (2)	•	. 1		67307 Gasket—Magneto Plate—.015" Thick	1
	No. 92290 Lockwasher — No. $10x_{16}^{L}x_{64}^{3}$ " (4)	٥.	. 1		67316 Spring—Governor 67527 Gasket—Valve Cover	2
	No. 67072 Washer (2)		. 1		67527 Gasket—Valve Cover	1 1
	Used to mount No. 62965 Fue		. 1		67597 Gasket—Magneto Plate—.005" Thick.	i
	Tank Strap on blower housin				67607 Gasket—Magneto Plate—.009" Thick	î
	on type Ncs. 95965, 95971, 9598	l,			67617 Packing—Needle Valve	1
COEOC	96928, 96930, 96940, 96946, 9694	7.			68122 Plug—Cam Shaft	1
62536 62538	Cup—Starter Return Spring	•	. 1		68337 Gasket—Engine Base	1
62577	Washer Elevebral	•			Note: Used on all engines equipped with base using eight screws for	
02077	Washer—Flywheel	•	. 1		mounting to cylinder. On en-	
	Used on engines with foot of	·	. 1		gines equipped with locating	
	hand lever starters on blowe	r			dowel pins for mounting cylinder	
	housing side.				to base see Part No. 27043 Gasket.	
62600	Stop—Starter Pedal	٠	6		68397 Cork	1
62641	Plate—Speed Adjuster Retainer	• •	ļ		68437 Packing—Needle Valve	î
	Note: No. 62575 Spring—Speed Ac		,		68467 Gasket—Carburetor Mounting	ī
	juster	•	1		68477 Gasket—Fuel Filter Bowl	1
62651	Washer-Carburetor		1		68487 Bowl—Fuel Filter	2
	Note: No. 62628 Washer—Carbureto	r	1		68537 Gasket—Gear Cover	1
	Used on type No. 95948.				68957 Gasket—Air Cleaner Mounting	1
62693	Pulley—Rope Starter		12		Note: No. 68287 Gasket—Air Cleaner	_
62702	Washer—Choke Valve	٠	1		Mounting	1
62812	Bracket—Control Wire Casing	•	1		Used on engines before serial No. 81165.	-
62835 62842	Cover—Dust	٠	8		69149 Float—Carburetor	4
62891	Spacer—Dust Cover	•	1		69221 Cap—Fuel Tank	
62899	Washer—Needle Valve Packing	•	4 1		Note: No. 69961 Cap—Fuel Tank	
62966	Switch Stop		î		Used on type Nos. 95965, 95971,	
63058	Connector—Fuel Pipe		1		95981, 96928, 96930, 96940, 96946,	
	Note: No. 66111 Connector—Fuel Pipe	∍	1		96947.	
2	Used on type Nos. 95965, 95971	,			69345 Cap—Oil Filler	4
	95981, 96928, 96930, 96940, 96946 96947.	,			89282 Carburetor Assembly	
63136	Pin—Needle Valve Stop	, .	,		Note: No. 89443 Starter Assembly—	,
63426	Locknut—Control Wire Casing		1		Hand 3	() .
63699	Seat—Float Valve		î		Used on type Nos. 95967, 95970,	inti afkij t
63770	Ball-Clutch		ĩ		95975, 96934, 96945.	
63771	Bushing—Starter Sector		1		No. 89485 Starter Assembly —	/H.
63782 63785	Valve—Intake Shaft—Cam	·	2		Hand 3	
63788	Tappet—Valve		3 1		Used on type Nos. 95971, 96930.	
			1		(See Next Page)	

No. 9840 Storter Asiembly List Or.	MAST PAR NUMB	T	SHIPPING	ł	1	MASTI PART			SHIPPII WEIGH	
Used on type No. \$9552, \$5531, \$5511, \$5516, \$5316, \$5531, \$5516, \$5531, \$5516, \$5531, \$5516, \$5531, \$5516, \$5531, \$5516, \$5531, \$5516, \$5531, \$5516, \$5531, \$5516, \$5531, \$5516, \$5531, \$5516, \$5531, \$5516, \$5531, \$5516, \$5531, \$553	MODIL				.]		ER	NAME	Lbs. C	z.
Used on type Nos. 95855, 95933, 15357, 85851, 95851, 95851, 95851, 95852, 95853, 95857, 95853, 95857, 95853, 95857, 95853, 95857, 95853, 95857, 95853, 95857, 95853, 95857, 95853, 95857, 95853, 95857, 95853, 95857, 95853, 95857, 95853, 95857, 95854, 95851, 95852, 95853, 95857, 95853, 95857, 95853, 95857, 95853, 95857, 95853, 95857, 95853, 95857, 95853, 95857, 95853, 95857, 95853, 95857, 95853, 95857, 95853, 95857, 95853, 95857, 95853, 95857, 95853, 95857, 95853, 95857, 958						89599	Blade Assembly	—Governor	•••	2
\$5534, 9566, 9564, 9564, 9565, 9577, 95650, 9565, 95650, 95650, 95650, 9567, 95650, 9567, 95650, 9567, 95650, 9567, 95650, 9567, 95650, 9567, 95650, 9567, 95650, 9567, 95650, 9567, 95670, 9567, 95670, 9567				•			Note: No. 62598	3 Plate Baitle	• • • • • • • • • • • •	1
Section Sect		95934, 95936, 95942, 95954, 9596	1:		. [137, _{e 20}	200
\$6935, \$6915, \$6927, \$6939, \$6930, \$6924, \$6934,		95966, 95969, 95978, 95979, 9690	1,		1				•	
Section Sect		96905, 96915, 96926, 96937, 9693			1					2.
Section	00000		_							
### Note: On engines equipped with base witing skipt scrows for mounting to cylinder and not otherwise his provided in the otherwise his provided in the control of the con										
Note: On encines equipped with hose users in mounting to cylinder and not otherwise listed in the "Note" user No. 2016 (Cylinder and not otherwise listed in the "Note" user No. 2016 (Cylinder and not otherwise listed in the "Note" user No. 2016 (Cylinder and not otherwise listed in the "Note" user No. 2016 (Cylinder to base and not otherwise listed in this "Note" user No. 2016 (Cylinder to base and not otherwise listed in this "Note" user No. 2016 (Cylinder to base and not otherwise listed in this "Note" user No. 2016 (Cylinder and Megnator. 13 No. 2016 (Cylinder and Megnator. 14 No. 2016 (Cylinder and Megnator. 15 No. 2016 (Cylinder and Megnator. 15 No. 2016 (Cylinder and Megnator. 16 No. 2016 (Cylinder and Megnator. 17 No. 2016 (Cylinder. 18 No. 2016 (Cylinder. 19 No. 2016) (Cylinder.					ŀ	89860				1
using othit acrews for mounting to cylinder and not otherwise library in this "Kote" user No. 28468 Silney—Oll Relation: 1 Used on engines before Serial No. 508000. No. 28746 Cylinder. 12 Used on engines before Serial No. 508000. No. 28746 Cylinder. 12 Used on engines before Serial No. 508000. Septiment of the serial part of mounting cylinder to bese and not etherwise listed in this "Note" user No. 28408 Cylinder. 12 Used on type No. 25330. No. 2808 Cylinder. 13 Used on type No. 25330. No. 28080 Cylinder. 13 Used on type No. 25808, 58856, 58808, 58807, 98811, 58818, 58815. No. 28081 Septiment Serial No. 2808. No. 28081 Cylinder. 2009. No. 28081, 58838, 58843, 58859, 58854, 58	•••							ngines after Serial	No.	
Used on enqines before Serial No. 38900. S9877—Bushing—Cylinder or Margneto Lose on engines fire Serial No. 38900. S9877—Bushing—Cylinder or Margneto Lose on engines fire Serial No. 38900. S9877—Bushing—Cylinder or Margneto Lose on engines fire Serial No. 38900 Cylinder to bease on not etherwise listed in this "Note" use: No. 8822 Cylinder. 13 Used on type Nos. 39589, 59582. No. 38937 Cylinder. 13 Used on type Nos. 39589, 59582. No. 38937 Cylinder. 13 Used on type Nos. 39589, 59582. No. 38937 Cylinder. 13 Used on type Nos. 39589, 58918. S9806, 58909, 58911, 68918. S9806, 58909, 58911, 58919. S9806, 58909, 58911, 58919. S9806, 58909, 58911, 58919. S9806, 58909, 5890		 using eight screws for mounting 	na					Rina—Oil Retains	r	1
18cod in this "Note" use: No. 23746 Cylinder. 13 15 15 15 15 15 15 15		to cylinder and not otherwi	S e							•
No. 29746 Cylinder 13		listed in this "Note" use: N	0.							
Che engines equipped with locating dowel pins for mounting cylinder to brase and not other who. 83220 pints for mounting cylinder to brase and not other who. 83220 pints for mounting cylinder to brase and not other who. 83220 pints for mounting cylinder to brase. No. 83939 Cylinder. 12 Used on type No. 25130. 13 Used on type No. 25130. 13 Used on type Nos. 35948, 58586, 58686, 58680, 58681, 58611,			10			89 677 —	-Bushing-Cylind	ler or Magneto		4
ing dowel pins for mounting cylinder to bease and not other wire listed in this "Note" use: No. 89322 Cylinder. No. 89393 Cylinder.								ngines after Serial	No.	
cylinder to brase and not other wise listed in this "Note" use: No. 89322 Cylinder. No. 89322 Cylinder. No. 89393 Cylinder. 13 Used on type Nos. 95959, 95962. No. 89394 Cylinder. 14 Used on type Nos. 95959, 95962. No. 89395 Cylinder. 15 Used on type Nos. 9594, 95886, 95824, 95830, 95831, 95821, 95832, 95821, 95832, 95821, 95832,								No occo coal C	. 1	
Mo. 89032 Cythinders 13					-					
West of Power Take-off side of Model, "Wife "engines."			e:		ļ			-		2
Used on type Nos. 98958, 95962, No. 98940 Bushing—Oylinder. 3 Used on type No. 25130. No. 98060 Cylinder. 13 Used on type Nos. 95808, 95801, 96805, 96801, 9		No. 89322 Cylinder.	10							
Used on type No. 25130. 13	•	Used on type Nog 95059 0506	. 13							
Used on type No. 25130. No. 38908 Cylinder. 13		No. 89597 Cylinder	4.							3
No. 89608 Cylinder 13									ilai	
Used on type Nos. 95884, 95896, 96803, 96807, 96811, 96812, 96813, 96821, 96823, 96827, 96823, 96827, No. 99138 Bearing—Boil. 4 No. 99136 Seal—Coil. 3 Used on type Nos. 95804, 96825, 96827, No. 99138 Cylinder. 13 Used on type Nos. 95804, 95803, 95824, 95831, 95821, 9			.: 13	•					Oil	
Second S							Retainer.			
Used on Prew Nos. 96932, 96927, 13 Used on Prew Nos. 96932, 96927, 15 No. 99090 Cylinder. 13 Used on type Nos. 95804, 95806, 95814, 95892, 95825, 95829, 95813, 95839, 395845, 95850, 95864, 95871, 95837, 95837, 95837, 95837, 95837, 95837, 95837, 95837, 95837, 95837, 95837, 95837, 95837, 95837, 95837, 95837, 95837, 25102, 25105, 25104, 25105, 25106, 25100, 25100, 25		96806, 96807, 96811, 96815, 9681	8,		1					
Used on type Nos. 95923, 95927, No. 93930 Cylinder. 13 13 13 13 14 15 15 15 15 15 15 15							and the same of th	• .		3
Second Second					-					
Used on type Nos. 95804, 95805, 95813, 95813, 95821, 95825, 95825, 95828, 95831, 95832, 95825, 95825, 95838, 95835, 95830, 95845, 95830, 95845, 95830, 95845, 95830, 95845, 95830, 95845, 95830, 95845, 95830, 95845, 95830, 95845, 95830, 95845, 95830, 95818, No. 93811 Cylinder									.00,	
Soil 9582 9582 95825 95824 9583 9583 95836 95854 9584 9586 95864 9587 95878 No. 99816 70 10 Used on type Nos. 25100 25103 25104 25105 25105 25105 25100 25105 25105 25105 25100 25105 25105 25105 25100 25105 25105 25107 25100 25105 25105 25107 25100 25105 25107 25107 25200 25225 25226 25227 95833 89346 Filter Assembly—Fuel					***	89966			1	6
1		95813, 95821, 95823, 95825, 9582	9,							6
No. 93311 Cylinder 13			4,		-					•
Used on type Nos. 25100, 25108, 25107, 25108, 25107, 25108, 25107, 25108, 25107, 25108, 25107, 25108, 25107, 25108, 25150, 25151, 25154, 25155, 25156. No. 93750 Cylinder			10							3
25104, 25105, 25107, 25108, 25129, 25129, 25129, 25150, 25151, 25154, 25155, 25129, 25129, 25150, 25151, 25154, 25155, 25158, 25129, 25150, 25151, 25154, 25155, 25156, 25157, 25177, 25200, 25225, 25226, 25227, 95833. 90087 Screw—Machine—Rd. Hd.—10-32x½" 1 183447 Cover—Fuel Filter				•						
251109, 25127, 25128, 25127, 25128, 25129, 25150. 25150, 251512, 25154, 25152, 25152, 25152, 25152, 25152, 25152, 25152, 25152, 25152, 25152, 25177, 25177, 25200, 25225, 25226, 25227, 95333. 10 9031 Screw—Machine—Rd. Hd.—9.32x½" . 1 90381 Screw—Machine—Rd. Hd.—10.32x½" . 1 90384 Cover—Fuel Filter . 2 90355 Nut—Hex.—10.32 . 1 90313 Nut—Hex.—8.32		25104, 25105, 25106, 25107, 2510	s, 8.					-,,,		
25150, 25151, 25154, 25155, 25156. No. 93705 Cylinder 13 Used on type Nos. 25175, 25177, 25200, 25225, 25227, 25233. 9038 Screw—Machine—Rd. Hd.—10-32x½" 1 90381 Screw—Machine—Fill. Hd.—10-32x½" 1 90387 Nut—Hex.—8-32 1 90387 Nut—Hex.—10-32 1 90		25109, 25125, 25127, 25128, 2512	9,			90066	Screw—Machine	Rd. Hd8-32x1/	4"• :	l
Used on type Nos. 25175, 25177, 25200, 25225, 25226, 25227, 95833. 90335 Nut—Hex.—8-32 1 1 1 1 1 1 1 1 1		25150, 25151, 25154, 25155, 2515	6.		Ì			•		
### 10 ###					ļ					
### 10 10 10 10 10 10 10 1		25200, 25225, 25226, 25277, 9589	/, 2							1
### 19347 Cover—Fuel Filter	89346	Filter Assembly—Fuel	10		1					1
### 1936 Base—Engine 6 9036 Lockwasher—\frac{1}{15}x\frac{1}{1	89347	Cover—Fuel Filter	2							ĩ
nipple opposite carburetor, uses locating dowel pins for mounting cylinder to base. Note: No. 89362 Base—Engine 6 (Dim. "A" — 5\%".) Oil filler nipple opposite carburetor, uses locating dowel pins for mounting cylinder to base. No. 89407 Base—Engine 6 (Dim. "A" — 5\%".) Oil filler nipple under carburetor, uses locating dowel pins for mounting cylinder to base. No. 89408 Base—Engine 6 (Dim. "A" — 5\%".) Oil filler nipple opposite carburetor, uses locating dowel pins for mounting cylinder to base. No. 89408 Base—Engine 8 (Dim. "A" — 5\%".) Oil filler nipple opposite carburetor, magneto side starter mounting lugs, uses locating dowel pins for mounting cylinder to base. No. 89408 Base—Engine 8 (Dim. "A" — 5\%".) Oil filler nipple opposite carburetor, magneto side starter mounting lugs, uses locating dowel pins for mounting cylinder to base. No. 89408 Base—Engine 8 (Dim. "A" — 5\%".) Oil filler nipple opposite carburetor, magneto side starter mounting lugs, uses locating dowel pins for mounting cylinder to base. No. 89408 Base—Engine 8 (Dim. "A" — 5\%".) Oil filler nipple opposite carburetor, magneto side starter mounting lugs, uses locating dowel pins for mounting cylinder to base. No. 89408 Base—Engine 8 (Dim. "A" — 5\%".) Oil filler nipple opposite carburetor, magneto side starter mounting lugs, uses locating dowel pins for mounting cylinder to base. For bases using eight screws for mounting to cylinder see Master part No. 99739 and "Notes" Note: No. 9364, 95950. Screw—Machine, Rd. Hd.—8-32x15" 1 Note: No. 9018 Lockwasher—No. 80847. 1	89409	Base-Engine	. 6							
locating dowel pins for mounting cylinder to base. Note: No. 89362 Base—Engine 6 (Dim. "A" — 5½") Oil filler nipple opposite carburetor, uses locating dowel pins for mounting cylinder to base. No. 89407 Base—Engine 6 (Dim. "A" — 5½") Oil filler nipple under carburetor, uses locating dowel pins for mounting cylinder to base. No. 89408 Base—Engine 6 (Dim. "A" — 5½") Oil filler nipple under carburetor, uses locating dowel pins for mounting cylinder to base. No. 89408 Base—Engine 8 (Dim. "A" — 5½") Oil filler nipple opposite carburetor, magneto side starter mounting lugs, uses locating dowel pins for mounting cylinder to base. No. 89436 Base—Engine 8 (Dim. "A" — 5½") Oil filler nipple opposite carburetor, magneto side starter mounting lugs, uses locating dowel pins for mounting cylinder to base. No. 89436 Base—Engine 8 (Dim. "A" — 3½") Oil filler nipple opposite carburetor, magneto side starter mounting lugs, uses locating dowel pins for mounting cylinder to base. No. 89436 Base—Engine 8 (Dim. "A" — 3½") Oil filler nipple opposite carburetor, magneto side starter mounting lugs, uses locating dowel pins for mounting cylinder to base. For bases using eight screws for mounting to cylinder see Master part No. 99739 and "Notes" 1 Used on type No. 96947. 90731 Pin—Cotter—½x1¼" 1 90781 Screw—Machine—Fill Hd.—8-324x½" 1 90847 Nut—Hex.—½x28x½" 1 90847 Nut—Hex.—½x28x½" 1 90847 Nut—Hex.—¼x3xx½" 1 1 Used on engines with inside breathers. 90916 Screw—Machine, Rd. Hd.—¼-20x½" 1 Note: No. 99932 Lockwasher— 1 No. 99932 Lockwasher— 1 No. 99932 Lockwasher— 1 Used on type No. 96947. 1 Used on onthe dowell pins for nounting to cylinder see Master see		(Dim. "A" — 31/8".) Oil fill	er			90367				1
Used on carburetor on type Nos. 95948, 95950. (Dim. "A" — 5¼".) Oil filler nipple opposite carburetor, uses locating dowel pins for mounting cylinder to base. No. 89407 Base—Engine		nipple opposite carburetor, us	es .	4	-					
Note: No. 89362 Base—Engine			ıg							1
(Dim. "A" — 5\%".) Oil filler nipple opposite carburetor, uses locating dowel pins for mounting cylinder to base. No. 89407 Base—Engine. 6 (Dim. "A" — 5\%".) Oil filler nipple under carburetor, uses locating dowel pins for mounting cylinder to base. No. 89408 Base—Engine. 8 (Dim. "A" — 5\%".) Oil filler nipple opposite carburetor, magneto side starter mounting lugs, uses locating dowel pins for mounting cylinder to base. No. 89436 Base—Engine. 8 (Dim. "A" — 3\%".) Oil filler nipple opposite carburetor, magneto side starter mounting lugs, uses locating dowel pins for mounting cylinder to base. No. 99436 Base—Engine. 8 (Dim. "A" — 3\%".) Oil filler nipple opposite carburetor, magneto side starter mounting lugs, uses locating dowel pins for mounting cylinder to base. No. 99436 Base—Engine. 8 (Dim. "A" — 3\%".) Oil filler nipple opposite carburetor, magneto side starter mounting lugs, uses locating dowel pins for mounting cylinder to base. For bases using eight screws for mounting to cylinder see Master part No. 99739 and "Notes" Screw—Magneto Mounting Notes S2134 Screw — Magneto Mounting 1 lase wounting cylinder to base. 90733 Pin—Cotter—\%x1\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		Note: No. 89362 Base—Engine	. 6		l				105.	
nipple opposite carburetor, uses locating dowel pins for mounting cylinder to base. No. 89407 Base—Engine		(Dim. "A" — 51/8".) Oil fill	er		1	90528				ľ
Used on type No. 96947. No. 89407 Base—Engine		nipple opposite carburetor, us	∋s				Note: No. 9213	4 Screw — Magr	eto	
No. 89407 Base—Engine		cylinder to base	ig						* * * *	1
(Dim. "A" — 51/8".) Oil filler nipple under carburetor, uses locating dowel pins for mounting cylinder to base. No. 89408 Base—Engine			6		j	00722			•	1
nipple under carburetor, uses locating dowel pins for mounting cylinder to base. No. 89408 Base—Engine		(Dim. "A" — 51/8".) Oil fill	er		1					1
cylinder to base. No. 89408 Base—Engine 8 (Dim. "A"—5½".) Oil filler nipple opposite carburetor, magneto side starter mounting lugs, uses locating dowel pins for mounting cylinder to base. No. 89436 Base—Engine 8 (Dim. "A"—3½".) Oil filler nipple opposite carburetor, magneto side starter mounting lugs, uses locating dowel pins for nipple opposite carburetor, magneto side starter mounting lugs, uses locating dowel pins for mounting cylinder to base. For bases using eight screws for mounting to cylinder see Master Part No. 99739 and "Notes" 90847 Nut—Hex.—¼-28 1 Used on engines with inside breathers. 90916 Screw—Machine, Rd. Hd.—¼-20x½" 1 Note: No. 90916 Screw—Machine, Rd. Hd.—¼-20x½" 1 Note: Note: No. 90916 Screw—Machine, Rd. Hd.—¼-20x½" 1 Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note		nipple under carburetor, uses l	0-							1
Used on engines with inside breathers. (Dim. "A"—5½") Oil filler nipple opposite carburetor, magneto side starter mounting lugs, uses locating dowel pins for mounting cylinder to base. No. 89408 Base—Engine 8 (Dim. "A"—3½") Oil filler nipple opposite carburetor, magneto side starter mounting lugs, uses locating dowel pins for mounting cylinder to base. No. 89408 Base—Engine 8 (Dim. "A"—3½") Oil filler nipple opposite carburetor, magneto side starter mounting lugs, uses locating dowel pins for mounting cylinder to base. For bases using eight screws for mounting to cylinder see Master Part No. 99739 and "Notes" Used on engines with inside breathers. Screw—Machine, Rd. Hd.—¼-20x½" 1 Note: No. 90916 Screw—Machine, Rd. Hd.—¼-20x½" 1 Note: No. 90916 Screw—Machine, Rd. Hd.—¼-20x½" 1 Note: No. 90932 Lockwasher— 1 Used to mount Blower Housing to Cylinder Head on type Nos. 95965, 95971, 95981, 96928, 96930, 96940, 96940, 96946, 96947 1 90916 Screw—Machine, Rd. Hd.—¼-20x½" 1 Note: No. 90932 Lockwasher— 1 Used to mount Blower Housing to Cylinder Head on type Nos. 95965, 95971, 95981, 96928, 96930, 96940, 96946, 96947 1 90916 Screw—Machine, Rd. Hd.—¼-20x½" 1 Note: No. 90932 Lockwasher— 1 Used to mount Blower Housing to Cylinder Head on type Nos. 95965, 95971, 95981, 96928, 96930, 96940, 96940, 96946, 96947 1 90916 Screw—Machine, Rd. Hd.—¼-20x½" 1 Note: No. 90932 Lockwasher— 1 Used to mount Blower Housing to Cylinder Head on type Nos. 95965, 95971, 95981, 96928, 96930, 96940, 96940, 96946, 96947 1 90916 Screw—Machine, Rd. Hd.—¼-20x½" 1 Note: No. 90932 Lockwasher— 1 Used to mount Blower Housing to Cylinder Head on type Nos. 95965, 95971, 95981, 96928, 96930, 95965, 95971, 95981, 96928, 96930, 95965, 95971, 95981, 96928, 96930, 95965, 95971, 95981, 96928, 96930, 95965, 95971, 95981, 96928, 96930, 95965, 95971, 95981, 96928, 96930, 95965, 95971, 95981, 96928, 96930, 95965, 95971, 95981, 96928, 96930, 95965, 95971, 95981, 96928, 96930, 95965, 95971, 95981, 96928, 9			ng							ì
(Dim. "A"—51%".) Oil filler nipple opposite carburetor, magnetos side starter mounting lugs, uses locating dowel pins for mounting cylinder to base. No. 39436 Base—Engine			ρ				Used on	engines with ins	ide -	
nipple opposite carburetor, magneto side starter mounting lugs, uses locating dowel pins for mounting explined root base. No. 39436 Base—Engine		(Dim. "A" — 51/8".) Oil fill	er o				breathers.			
uses locating dowel pins for mounting cylinder to base. Hd.—¼-20x½" 1 No. 89436 Base—Engine		nipple opposite carburetor, ma	q-		1	90916				1
mounting cylinder to base. No. 89436 Base—Engine		neto side starter mounting luc	s,							1
No. 89436 Base—Engine 8 (Dim. "A"—31/4".) Oil filler nipple opposite carburetor, magneto side starter mounting lugs, uses locating dowel pins for mounting cylinder to base. For bases using eight screws for mounting to cylinder see Master part No. 99739 and "Notes" 1 Used to mount Blower Housing to Cylinder Head on type Nos. 95965, 95971, 95981, 96928, 96930, 96940, 96946, 96947, 95981, 96928, 96930, 96940, 96946, 96947. 1 Used to mount Blower Housing to Cylinder Head on type Nos. 95965, 95971, 95981, 96928, 96930, 96940, 96946, 96947, 96946, 96947. 1 Used to mount Blower Housing to Cylinder Head on type Nos. 95965, 95971, 95981, 96928, 96930, 96940, 96946, 96947, 96946, 96947. 1 Used to mount Blower Housing to Cylinder Head on type Nos. 95965, 95971, 95981, 96928, 96930, 96940, 96946, 96947, 96946, 96947. 2 Screw—Cap, Hex. Hd.—16-24x3/4"		mounting cylinder to been	or ,						• • • ••	1
(Dim. "A"—3½".) Oil filler nipple opposite carburetor, magneto side starter mounting lugs, uses locating dowel pins for mounting cylinder to base. For bases using eight screws for mounting to cylinder see Master Part No. 99739 and "Notes" Used to mount Blower Housing to Cylinder Head on type Nos. 95965, 95971, 95981, 96928, 96930, 96940, 96946, 96947. Screw—Cap, Hex. Hd.—16-24x¾"		No. 89436 Base—Engine	8							1
nipple opposite carburetor, magneto side starter mounting lugs, uses locating dowel pins for mounting cylinder to base. For bases using eight screws for mounting to cylinder see Master Part No. 99739 and "Notes" to Cylinder Head on type Nos. 95965, 95971, 95981, 96928, 96930, 96940, 96946, 96947. 90950 Screw—Cap, Hex. Hd.—16-24x¾"		(Dim. "A" \longrightarrow 31/8".) Oil fill	er	ì		•				
uses locating dowel pins for mounting cylinder to base. 96940, 96946, 96947. For bases using eight screws for mounting to cylinder see Master 91070 Part No. 99739 and "Notes" 91084 Plug—Pipe—36" 1 91208 Nut—Hex.—36-24 1 1		nipple opposite carburetor, mo	a-				to Cylinde	r Head on type 1	los.	, ,;
mounting cylinder to base. For bases using eight screws for mounting to cylinder see Master Part No. 99739 and "Notes" 99950 Screw—Cap, Hex. Hd.——16-24x¾"		neto side starter mounting luc	s,				95965, 9597	/1,95981,96928,969	J3U, 🦠	
For bases using eight screws for mounting to cylinder see Master 91070 Lockwasher—Shakeproof No. 1208 1 Part No. 99739 and "Notes" 91208 Nut—Hex.—16-24 1		mounting cylinder to have	or			90950				1
mounting to cylinder see Master 91084 Plug—Pipe—36" 1 Part No. 99739 and "Notes" 91208 Nut—Hex.—16-24 1		For bases using eight screws f	or .							1
Part No. 99/39 and "Notes" 91208 Nut—Hex.—1-1-24		mounting to cylinder see Mast	er							1
under II. 91237 Lockwasher 1/4 v 3 v 3"			s"				Nut—Hex.— $\frac{5}{16}$ -2	4	,	1
Local delice - /4x32x64		noted under II.			ŀ	91237	Lockwasher—1/4	X32X24	•••	1

MAST: PAR		SHIPPING WEIGHT	MAST		SHIPPING
NUMB	ER NAME	Lbs. Oz.	NUMB		WEIGHT Lbs. Oz.
91253	Screw-Machine, Fill. Hd6-32x16	" . 1	91901	Screw—Cap Hex Hd.—7-20x11	6" . 1
91321	Screw-Machine, Rd. Hd14-20x%	" 1	92000	Screw-Cap, Hex. Hd1/4-28x11	4" 1
	Washer—1/4" Standard	1		Note: No. 31183 Screw — Cap.	Hex.
91359	Screw—Machine, Fill Hd.—10-32x34"	"· 1		Hd.—¼-28x%"	, 1 <
	Note: No. 62890 Washer—Carb. Mt. Note: No. 92013 Screw — Machin	g		Used on engines before S No. 49477.	eriai ,
	Fill. Hd.—10-32x116"		92067	Nut—Wing	1
	Used on type Nos. 95965, 9597	1,	92129	Nut—Hex.—14-28	
	95981, 96928, 96930, 96940, 9694	16,	92227	Lockwasher—Shakeproof No. 112	
91401	96947. Screw—Machine, Fill. Hd.—8-32x1/4"	" 1	92235 92236	Screw—Cylinder Mounting	
91413	Pin—Cotter—½x1"		92236	Screw—Cylinder Mounting Note: No. 92249 Screw — Cap.	
91419	Screw—Cap, Hex. Hd.—1/4-20x5/8"			Hd.—%-24x2½"	
	Used to mount oil pump to bas			Used on earlier models of	
	on engines equipped with loca	at-		Nos. 25130, 95872, 95883, 9	
	ing dowel pins for mounting	ng		95970, 95975, 95978, 95979, 9	
91488	cylinder to base. Plug—Pipe—1/8"	1	92285 92287	Pin—Cotter—No. 18x¼″	
•	Note: No. 90878 Plug—Pipe—1/4"		92290	Screw—Machine, Rd. Hd.— $10-32x$ Lockwasher—No. $10x\frac{1}{16}x\frac{3}{64}$ "	
	Used on engines with 1/4" pig		92305	Washer—Control Lever	
	tapped oil drain hole in bas		92306	Screw—Cap, Hex. Hd.—1/4-20x5/8"	
91541	Screw—Cap, Hex. Hd.—5-24x%"			No. 90802 Screw — Cap,	Hex.
91635	Connector—Fuel Filter	·· l		Note: \ Hd.—\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	
91636	Screw—Set, Socket Head, Cup Poi $\frac{5}{16}$ -24x%"	nt		(No. 92278 Nut—Hex.—1/4-2 Used to mount control leve	
	Note: No. 91758 Screw — Set, Sock	1		lever base on type Nos. 9	
	Head, Cone Point $\frac{5}{16}$ -24x $\frac{1}{2}$ ".			96808.	
	Used on type Nos. 95804, 9581	0.	92324 92427	Rivet—Tubular—1/8x372"	
	95821, 95822, 95836, 96806, 9681	1,	92604		
91700	96814.	1		Note: No. 91849 Screw-Conne	
91708	Nut—Hex.—1/4-20 Nut—Flywheel	·· 1 ·· 1		Rod	
	Note: No. 91900 Nut—Flywheel	1		Used on engines before S No. 108719.	etiai
	Used on engines with foot		92634	Screw-Machine, Rd. Hd5-40x5	/8." 1
	hand lever starter on blow	er	99023	Cleaner Assembly—Air	1 8
91711	housing side. Screw—Cylinder Head	1	ĺ	Note: No. 89281 Cleaner—Air	
V1 /11	No. 63337 Spacer		1	Used on type Nos. 95965, 9- 95981, 96928, 96930, 96940, 9	
	Note: No. 68873 Spacer	1		96947.	
	[No. 91203 Screw—Cylinder H	id 1	99098	Wire—Choke Control	
	Used to mount cylinder head o			Note: No. 29228 Wire—Choke Co Used on type Nos. 95814, 9	
	blower housing side on typ Nos. 25151, 25153, 95847, 9594		1	95852, 95866, 95872, 95883, 9	
	95974, 96820, 96917, 96933.	,	1	95969, 95978.	`
	No. 91386 Screw—Cylinder Hed	ad l		No. 99643 Wire—Choke Co	
	Used on type Nos. 95967, 9597	' 0,	99099	Used on type Nos. 95821, 9 Pipe—Fuel—1/8" Dia. x 5" Long.	
91741	95975, 96934, 96945. Screw—Pedal Return Spring Cup	1		Note: No. 69002 Pipe—Fuel— $\frac{3}{16}$ "	Dia.
91753	Screw—Machine, Fill. Hd.—8-32x1".	1		x 4 1 Cong	
91758	Screw—Set, Socket Hd. $\frac{5}{16}$ -24x $\frac{1}{2}$ ".	î		Used on type Nos. 95965, 93 95981, 96928, 96930, 96940, 9	
91787	Screw—Cap, Hex. Hd.—1/4-28x2"	1		96947.	30 10,
91796	Screw—Cap, Hex. Hd.—5-24x13/4"	·· 1		For other lengths of 1/8"	dia.
	Note: $\begin{cases} No. & 91207 \text{ Screw} - \text{Cap, He} \\ \text{Hd.} -\frac{5}{16} - 24x2'' \end{cases}$	ex.		Fuel Pipes specify:	Υ 4
	No. 62266 Washer	1 1		No. 29243 Pipe—Fuel—10" No. 29411 Pipe—Fuel—13"	
	Used on top two holes in geo			No. 29826 Pipe — Fuel — 2	
	case on type No. 25153.			Long	
91805	Screw—Cap, Hex. Hd .— $\frac{7}{16}$ - $20x1''$			No. 29858 Pipe—Fuel—21"	
91807 91808	Screw—Machine, Rd. Hd.—1/4-20x3/4"	″· - 1		No. 29919 Pipe—Fuel—18"	
91810	Lockwasher $-\frac{7}{16}x_35_2x^{1/8}''$ Elbow—Exhaust	· · · · 6		No. 64419 Pipe—Fuel—9" L No. 64499 Pipe—Fuel—12"	
	No. 61755 Elbow—Exhaust			No. 69324 Pipe—Fuel—6" L	
	Note: No. 63783 Fitting—Exhaust E	El-		No. 69339 Pipe—Fuel—14"	_
	l bow	2	1	No. 69357 Pipe—Fuel—40"	
	Used on type Nos. 95948, 9595	50,		No. 69404 Pipe—Fuel—16"	
,	96918. No. 91812 Elbow—Exhaust	6 .	00100	No. 99095 Pipe—Fuel—20"	
	Used on type Nos. 95809, 9582		99103	Pedal—Foot Starter Note: No. 29704 Pedal—Foot Star	
	95853, 96808, 96813, 96847, 9685	3,		Used on type Nos. 95909, 9	
	96941.	. 12		No. 29879 Pedal—Foot Star	ter. 1
	No. 91960 Elbow—Exhaust No. 91258 Nipple—Exhaust	· · . 6 · · . 3		Used on type Nos. 95950, 9	
	Used on type Nos. 95933, 9597	9,		No. 29882 Pedal—Foot Star Used on type No. 95939.	(GI.) I. j
. 01017	96938.			No. 29921 Pedal—Foot Star	ter. 1
91811 91833	Locknut—Exhaust Elbow	2		Used on type No. 95912.	
91846	Screw—Machine, Fill. Hd.—8-32x¾"	·· 1 "· 1	-	No. 99666 Pedal—Fcot Star Used on type No. 95948.	ter. I
			'		!

Before ordering parts, read instructions top page 11.

PART NUMBER NAME Lbs. Oz. 99104 Starter Assembly—Foot 3 Note: No. 29804 Starter Assembly— Foot 3 Used on type No. 95939. PART NUMBER NAME No. 99743 Base—Engir Square mounting lugs nipple on magneto s neto side starter mounting	L	EIG	_
99104 Starter Assembly—Foot			Oz.
Note: No. 29804 Starter Assembly— Foot	1e		
Used on type No. 95939. neto side starter mou			• *
		, r	; No. 11
No. 29809 Starter Assembly—Foot 3 with eight holes for m			
Used on type Nos. 95909, 95922. cylinder.	ouning to		
No. 29880 Starter Assembly—Foot 3 . 99764 Support Assembly—Foot Pe			6
Used on type Nos. 95950, 96918. No. 29920 Starter Assembly—Foot 3 99765 Lever and Support Assemble 99874 Adjuster—Speed			ï
Used on type No. 95912. 99955 Pump Assembly—Oil		<u></u>	
No. 93660 Starter Assembly—Foot 3 290059 Lever—Fuel Shut-off, %"	Dia. "T"		
Used on type No. 95948. Shaped			2
99106 Elbow—Air Cleaner 6 Note: No. 23347 Lever—Fu 99165 Valve—Needle 3 3 3 3 16" Dia. "I" Shaped			2
99272 Clutch Assembly—Starter		1	
99288 Cable—Ignition			^
99291 Breather, Outside		••	8
Used on earlier model "WR" on type Nos. 95907, 95			
engines. 96915.			
99306 Pedal—Starter 1 No. 63991 Pulley—Dri 99307 Starter Assembly—Foot 3 2" Dia.		1	
99307 Starter Assembly—Foot 3 2" Dia		1	
Note: No. 89123 Gear—Intermediate 1 95836, 96814.			
Used on type Nos. 25105, 25127, No. 99079 Pulley—Dri		,	
25128, 25154, 25155. 23%" Dia		ī	
Note: No. 89121 Drive Shaft Assembly 2 95864, 95882, 95884, 968			
Used on type Nos. 25105, 25127, 96839.			
25128, 25154, 25155.			4 2
No. 89174 Drive Shaft Assembly 2 2 290548 Breather Assembly Used on type Nos. 25129, 25130, 290568 Lever Assembly — Control		••	2
25153. Steel)			4
99317 Seal—Oil		1	
99320 Control Assembly—Throttle 6 Control Control 99339 Starter Assembly—Hand 3 Used on type Nos. 958		1	
99349 Cluich Assembly—Starter 1 No. 89583 Lever A.			
Note: No. 29741 Clutch Assembly— Control (Cast Iron).		1	••
Starter			1
No. 29853 Clutch Assembly — Includes: No. 92289		•	-
Starter 1 (Clamp (2)			1
Used on type Nos. 95905, 95956, 290584 Base—Control Lever (Stamp 96921. Note: No. 21441 Base—Control Lever (Stamp Note: No. 21441 Base (Stamp			2 6
96921. Note: No. 21441 Base—Con No. 29951 Clutch Assembly — Used on type Nos. 956		••	Ü
Starter 1 No. 65631 Base—Cont	rol Lever.	••	6
Used on type No. 95935. No. 89275 Clutch Assembly — Used on type Nos. 958 290642 Lever—Control (Stamped S			2
No. 89275 Clutch Assembly — 290642 Lever—Control (Stamped S 290792 Starter 1 290792 Plate — Magneto		2	
Used on type Nos. 95965, 96928, Note: No. 290869 Plate—Mo			
96946, 96947. Used on type Nos. 25			
No. 89476 Clutch Assembly — 95901, 95938, 95940, 959 Starter			
Used on type Nos. 95971, 96930. 96804, 96808, 96847, 96			
No. 89665 Clutch Assembly — 96928,96930, 96931, 969	39, 96940,		
Starter		6	
No. 99226 Clutch Assembly — Note: No. 290772 Magneto			••
Starter 1 Used on type Nos. 95:			
Used on type Nos. 95919, 95939, 96928, 96940, 96946, 96 96911.			1
99588 Lever Assembly—Throttle 2 Includes: No. 66115 V			1
99630 Cleaner—Air			1
99632 Tooth Assembly—Spring 1 No. 290894 Magneto A 99640 Rod Assembly—Connecting 8 Used on type Nos. 95		6	
99665 Yoke—Fuel Filter 2 Used on type Nos. 95			1
99739 Base—Engine 6 Includes: \ No. 66195 V			
Square mounting lugs, oil filler [Ground .			Ï
nipple on power take-off side, with eight holes for mounting No. 290895 Magneto A Used on type Nos. 25		b	
to cylinder. 95901, 95938, 95940, 95			
Note: No. 99736 Base—Engine 8 95972, 95980, 96804, 96			
Square mounting lugs, magneto 96914,96925,96931,96 side starter mounting lugs, with Includes: No. 66155 V			
side starter mounting lugs, with Includes: No. 66155 V eight holes for mounting to cyl-			1
inder. No. 290896 Magneto A	ssembly	6	
No. 99740 Base—Engine 8	830, 95837,		
Square mounting lugs, oil filler 95841,96816. nipple on magneto side, with 290918 Lever Assembly—Control		٠,	3
eight holes for mounting to cyl- 290980 Pin Assembly—Piston—Star	ndard		2
inder. 290981 Pin Assembly—Piston—.005	5" O.S		2

Before ordering parts, read instructions top page 11.

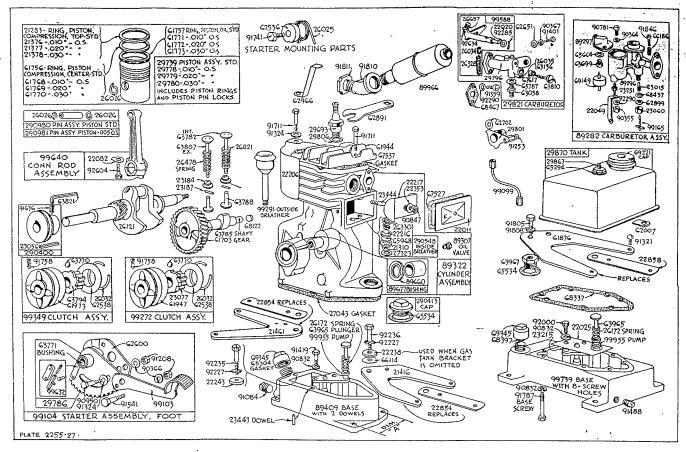
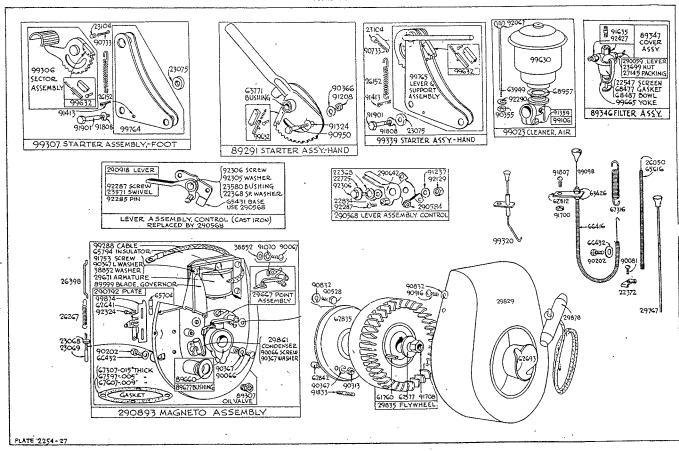
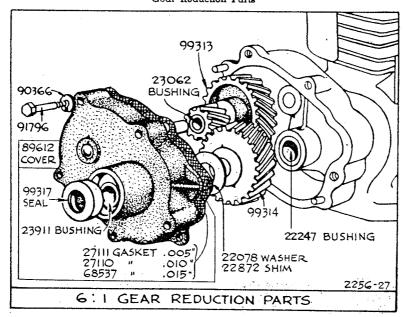


Plate No. 18



ASSEMBLIES INCLUDE ALL PARTS SHOWN IN BRACKETS

Plate No. 19 Gear Reduction Parts



ABOVE PARTS LISTED ON PAGE 11 THROUGH 16

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To provide prompt and efficient service on Briggs & Stratton motors, Authorized Central Service Distributors and Motor Service Stations are located in the principal cities of the United States and Canada.

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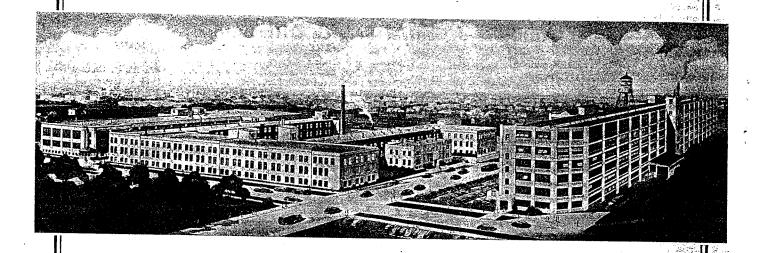
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