IMPORTANT USE OIL ALWAYSEAN 20 32 F. GOS. A. S. OIL PREPLEDILARLY FOR TOUSE SOLL FRE PLECULARLY

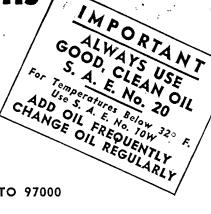
Operating Instructions,

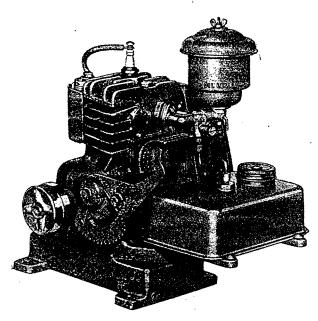
Adjustment and Repair Information • Parts List

MODELS

"WI"—"WIBP"—"WR"

TYPE NUMBERS FROM 25100 TO 25400 AND 95800 TO 97000





INDEX

I	Page
Starting the Motor	3,
Servicing Reference Chart	4.
Instructions for Adjustment and Repair	4
Repair Parts	10
Parts List, Models "WI," "WIBP," and "WR"11 t	o 16
Illustrated Parts	17-18
Guarantee	17
Nation-Wide Service Organization	19
Authorized Central Service Distributors	19

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 instructions 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 Hot Surface Toxic Fumes **Kickback**

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.

[4] WARNING

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.

[5] WARNING

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.

[10] WARNING

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.



WARNING

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

0	•		4 · 4	Pa	ragre	ph
Before Sta	arting the	Motor.				
How to S	tart		 			. 2
Failure of	Motor to	Start	 			. 3

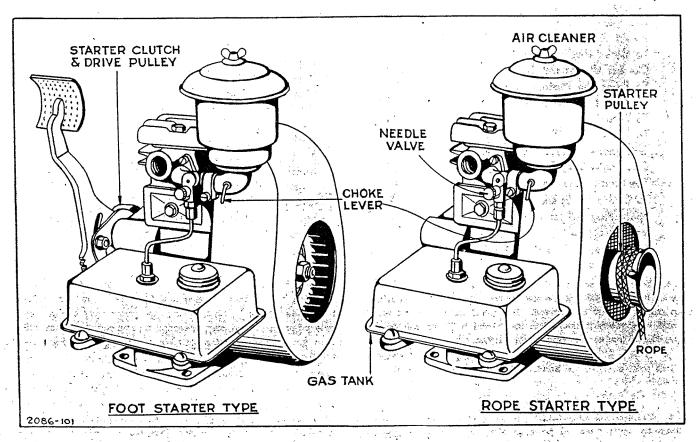
- 1. BEFORE STARTING THE MOTOR. Fill the crankcase with MOBILOIL ARCTIC or any other high grade oil not heavier than S. A. E. No. 20 for operating motor in temperatures of 32° F. and above. When temperature is BELOW 32° F., use Mobiloil "Arctic Special" or other high grade oil not heavier than S. A. 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.							•				•			•			4					4	•
General	Data									,											• 1		5	

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



Servicing Reference Chart

	Paragraph		Paragraph
MOTOR FAILS TO START	and the state of t	MOTOR OVERHEATS	
Out of Gasoline	* / ·	Out of Oil	1-13-52
		Oil Needs Changing	
Out of Oil		Oil Too Heavy	12 to 15
Dirt or Gum in Fuel System	16 to 19	Carburetor Out of Adjustment	
Incorrect Use of Choke	20	Poor Spark	28 to 40
Carburetor Out of Adjustment		Carbon	
Spark Plug Dirty		Overloaded	58
Ignition Cable Grounded	31		
Magneto		MOTOR LACKS POWER	`
Magneto	41 to 49	Air Cleaner Clogged	
Poor Compression		Lack of Oil	1-13-52
Starter Clutch	60	Add or Change Oil	12 to 15
'		Carburetor Out of Adjustment	
MOTOR STOPS		Motor Not Up to Speed	26-27
Out of Gasoline	1-16	Poor Spark	
Out of Oil		Poor Compression	
		Corbon	
Dirt or Gum in Fuel System		Muffler Clogged	
Motor Overheated	13-52-54-58	Exhaust Tubing	
Motor Overloaded		Overloaded	58

Instructions for Adjustment and Repair

Paragra	ph	Paragra Paragra	ph
Operating Requirements	• _	To Remove and Replace Magneto Assembly	34
How a 4-Cycle Motor Works		Magneto Timing	35
Keep the Motor Clean		To Adjust and Clean Contact Points	36
Use the Right Kind of Oil		To Replace Condenser	
Add Oil Regularly		To Replace and Adjust Armature	39
Change Oil Frequently		Cylinder Head	
		Compression	
Use Clean Gasoline		Valve Adjustment	
Avoid Gummy Gasoline		Piston	
To Clean the Fuel Lines		Piston Rings	
Correct Use of the Choke		Piston Pin	
To Prime the Motor		Connecting Rod	51
To Adjust the Carburetor		Oil Pump	
To Remove and Replace Carburetor	24	Oil Leaks	
To Remove and Replace Carburetor Throttle	25	Carbon	
Governor—Correct Motor Speed	26	Air Cleaner	
Governor—Speed Adjustment	27	Muffler	
The Ignition System		Exhaust Tubing	
To Check for Spark		Overload	
Spark Plug Adjustment		Starter Pedal Adjustment	
Ignition Cable		Starter Clutch	
To Remove and Replace Flywheel		Parts	
to Remove and Replace Flywheel	JL	t with the state of the state o	-

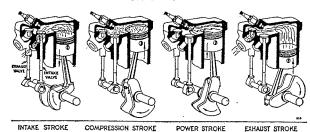
- 8. Your motor will give you better service if you do not tinker with it. This does not mean, however, that it does not require a certain amount of attention. Give it the right kind of fuel, oil, and care. Keep it clean both inside and out. You will be well repaid in trouble-free, satisfactory service.
- 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

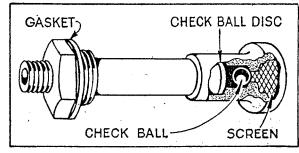


- 11. KEEP THE MOTOR CLEAN. It will pay you to keep your motor clean both inside and outside. See that no dirt or water enters motor when filling with oil or gasoline. As a precautionary measure always wipe off the gasoline cap and oil filler plug, as well as around them before refilling. Dirt in the 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

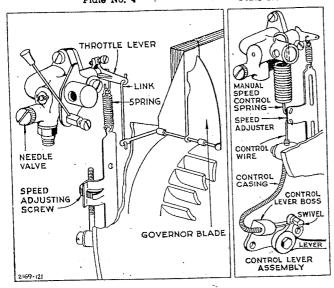


- 20. CORRECT USE OF THE CHOKE. The correct carburetor setting (see paragraph 23) gives the motor the best mixture to run on when it is hot. For starting, it is necessary to choke the carburetor to get a rich mixture, because cold gasoline does not vaporize readily. A warm or hot motor requires very 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 and pour 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.

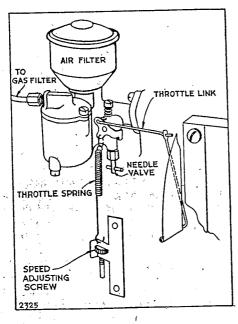
- 22. TO ADJUST THE CARBURETOR. The carburetor shown in plate No. 4 is a suction type feed and that in plate No. 4-B is a gravity type feed. The gasoline supply with both types of carburetors is regulated by a needle valve. At any set speed the throttle is automatically controlled by the governor. For 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

Manual Speed Control
Plate No. 4-A



Gravity Type Carburetor Plate No. 4-B



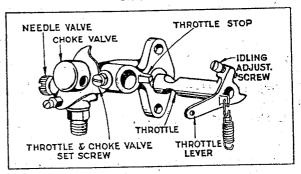
feed acts sluggish or motor does not govern smoothly, it is usually caused by a dirty or gummy throttle. See paragraph 25 For governor adjustments see paragraph 27 A and B.

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 siretching 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
Plate No. 5

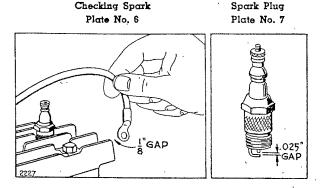


26. GOVERNOR—CORRECT MOTOR SPEED. The speed of your motor at any set speed is automatically maintained under varying loads by a pneumatic governor. It is operated by the air current blown by the flywheel. The governor was carefully adjusted at the factory to maintain normal speed under load. Do not re-adjust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



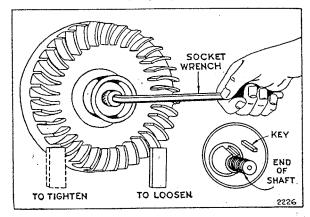
30. SPARK PLUG ADJUSTMENT. Spark plugs should be cleaned and points reset to .025" after each 100 hours of operation. See plate No. 7. Points burn away in service. The porcelain is to prevent the spark from jumping anywhere except at the gap, and if cracked or broken it will prevent the plug firing. 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.

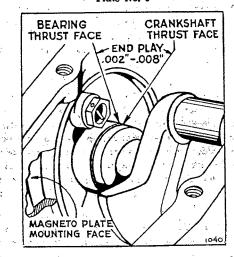
Removing Flywheel Plate No. 8



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.

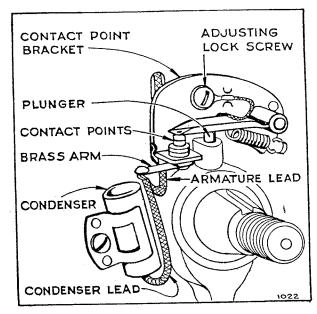
35. MAGNETO TIMING. Magneto assembly is always correctly timed with the motor when the flywheel is assembled to the tapered crankshaft with a key and securely held in place with LEFT hand threaded nut. Do not attempt to change the timing by relocating any parts or filing crankshaft timing flat. Always 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.

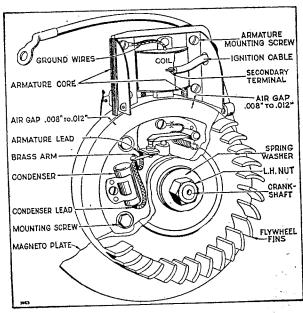
Contact Points and Condenser Plate No. 10



- 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 brass 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



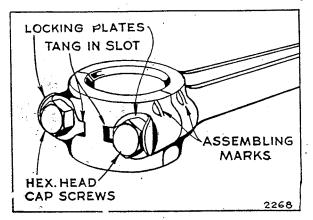
- 42. COMPRESSION. Proper compression is obtained when valves seat properly, gaskets do not leak and piston and rings are properly fitted. When tuning up a motor, it is always well to check compression. This is done by turning the motor over slowly. If a point of resistance is offered every other revolution, 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

MARK
ON
CAM GEAR
ON
CRANKSHAFT
COLLAR
ON
MAGNETO SIDE OF MOTOR

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-

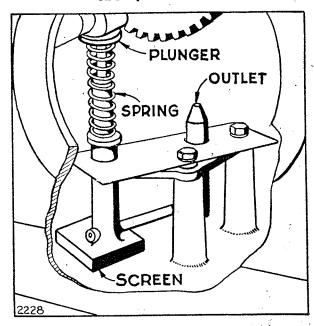
Connecting Rod — Plate No. 13



sembly marks on the lower bearing must be toward the mugneto 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:
 - OII. 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.

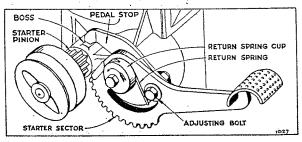
58. MUFFLER. After long periods of service it is possible that the muffler will become clogged to the point where it will affect the motor's power. To check the muffler unscrew it from the motor and run water into the open end of the muffler. If full streams of water come out of the small holes at the 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 desired 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

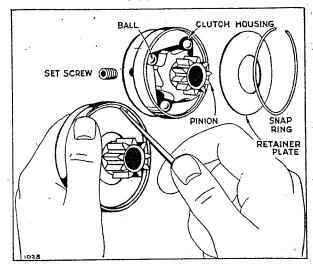


the bolt. Too much tension may cause spring to break. Be sure the spring is in the proper position with the long end below the pedal adjusting bolt and the hooked end in the slot of the cup.

60. 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

										ıge
Parts	List			. :	٠.	 	 	.11	to	16
Parts	Illustrations		: -			 	 	• • •	. 17	-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

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"

MASTE PART	• • • • • • • • • • • • • • • • • • •	SHIPPING WEIGHT	MASTI PART		SHIPPING WEIGHT
NUMBE	R NAME	Lbs. Oz.	NUMBI	er name	Lbs. Oz.
21283	Ring - Piston, Compression, Top-	_	22834	Washer Control Lever	1
	Standard		22854	Bracket—Fuel Tank	10
21310	Body—Breather		22858	Bracket—Fuel Tank	
	Used on engines with insid	ie	22872	Shim—.010" Thick	
01070	breathers.		23015	NozzleCarburetor	
21376	Ring — Piston, Compression, Top-		23056		
21377	.010" O.S	1		Note: No. 91539 Key $-\frac{3}{16}$ " Square	
210//	.020" O.S			Used on type Nos. 95838, 958	
21378	Ring — Piston, Compression, Top-			95860, 96815, 96818, 96824.	740,
	.030" O.S		23060	Nut-Needle Valve Packing	1
21416	Bracket - Fuel Tank (Replaced h		23062	Bushing—Intermediate Gear	
	No. 22854)		23068	Nut—Speed Adjusting	
21461	Bracket — Fuel Tank (Replaced 1	ΣY	23069	Screw—Speed Adjusting	
	No. 22854)		23075	Spacer—Foot Pedal Support	
22011	Cover—Valve	6)	23077	Pinion—Starter	
22020	Washer—Throttle Shaft		23104	Spacer—Foot Pedal Support	
22025	Plate—Oil Baffle		23184	Retainer—Valve Spring	
22049	Brace—Carburetor		23187		
22078	Washer—Thrust—.065" Thick	1	23215		
22982	Lock—Connecting Rod Screw	1	23251	Spacer—Baffle Plate	
22206	Shield—Cylinder	6	23443	Stud—Carburetor Bowl	
22216	Cover-Breather Valve	1	23444	Pin—Dowel	
	Used on engines with inside	de '	23444	Stud-Valve Cover	
	breathers.			breathers.	arde
22217	Shield—Oil Spray	: 1	į.	Note: No. 91707 Screw—Valve Co	over 1
	Used on engines with inside	de		Used on engines with out	
	breathers.	1		breathers.	
	Note: No. 62703 Shield—Oil Spray. Used on engines with outside		23571	Swivel—Control Lever	1
	breathers.	ue .	23580		
22238	Washer—Cylinder Mounting	·· 1	23699		
22243	Washer—Cylinder Mounting	1		Used with 3/8" dia. shut-off le	ver.
22247	Bushing—Cylinder			Note: No. 23346 Nut - Fuel Shu	
	Note: Used on power Take-off side		1	Lever	1
	Model "WR" engines.	01		Used with $\frac{3}{16}$ " dia. shut-off le	
22353	Washer-Valve Cover	1	23911		
22368	Washer—Control Lever		26021	Spring—Intake Valve	
22372	Clamp—Casing	. i	26025	Spring—Pedal Return	
7.5	Note: No. 22054 Clamp—Casing	1		Note: No. 26510 Spring—Lever Re	lurn l
ta's a	Used on type Nos 25151 2515	3		Used on type No. 96947.	. ,
100	Used on type Nos. 25151, 2515 95847, 95876, 95879, 95880, 959	19.		Lock—Piston Pin	
	95974, 96820, 96834, 96835, 9683		26032		
	96854, 96917, 96933.	6	26034	Link—Governor Spring Note: No. 26117 Link — Governor	
22547	Screen—Fuel Filter (Rectangular Ho	le) 1		Spring	
	Note: For Screen with round ho	ole		Used on type Nos. 95965, 95	
	order No. 62876	1		95981, 96928, 96930, 96940.	•
22725	Washer-Control Lever	1 .	26035	Spring—Stop Pin	3

MAST		SHIPPING		MAST	TER	SH	IPPI	NG
PAR' NUMB		WEIGHT	`	PAR			EIGI	
26050	Wire—Control—761/4" Long	Lbs. Oz.		NUMB			s. C	
	Note: If longer wire is needed, specify	· 0		27323	Gasket—Breather Body Point Assembly—Contact	• •		1
	length in inches, if shorter wire	9		29671	Armature—Magneto			2
	is needed, order No. 26050 and cut to required length.	i		29693				6
26121	Crankshaft	. 3		29739	Piston Assembly—Standard			8
	Note: No. 26115 Crankshaft	. 3		29767	Rod—Choke			1
	Used on type No. 95833. No. 26127 Crankshaft	0		29778				8
	Used on type Nos. 25175, 25177	• 3		29779 29780	indicate interest to a company			8
	No. 26135 Crankshaft	. 3		29786	Sector Assembly—Starter			8 4
	Used on type Nos. 95805, 95820	,		29796	Body—Carburetor			5
	95823, 95827, 95861, 95886, 95887 96807, 96810, 96825, 96841, 96842			29801	Valve—Carburetor Choke			2
	No. 26146 Crankshaft	. 3		29806	Gasket—Spark Plug			1
	Used on type Nos. 25200, 25225	,		29821	Carburetor Assembly			8,
	25227. No. 26150 Crankshaft	3	and the same of th		Note: No. 29800 Carburetor Assemb	-	{	8
	Used on type Nos. 25325, 25382	,			Used on type Nos. 95950, 9691 No. 99778 Carburetor Assembly			8
	95924, 95938, 95943, 95944, 95945	,			Used on type No. 95948.	•		
	95946, 95947, 95949, 95952, 95955 95957, 95959, 95960, 95968, 95974	,		29829	Housing—Blower			. .
	95980, 96902, 96903, 96906, 96907				Note: No. 99426 Housing Blower		2.	
	96912, 96914, 96916, 96917, 96920	,			Used on type Nos. 95965, 9597 95981, 96928, 96930, 96940, 9694			
	96922, 96924, 96925, 96929, 96933 96939, 96948.				96947.	Ο,		
	No. 26177 Crankshaft	. 3		29835	Flywheel-Magneto			
	Used on type Nos. 95825, 95831			29861 29863	Condenser			2 2
	No. 26205 Crankshaft			29870	Tank Assembly—Fuel			8
	Used on type Nos. 95838, 95845 95854, 95860, 95871, 95877, 96815				Note: No. 29034 Tank Assembly—Fu			В
	96818, 96824, 96831.				No. 62965 Strap—Tank (2)			3,
	No. 26310 Crankshaft	. 3			No. 90321 Nut—Square—10-32 (. !	1
	Used on type Nos. 95958, 95962 96923, 96927.	r			No. 90083 Screw—Machine, R Hd.—10-32x5%" (2)		7	1
	No. 26395 Crankshaft	. 3			No. 91366 Screw-Machine, R	d.		
	Used on type Nos. 95972, 95973	ı	ŀ		Hd.—10-32x%a" (2)		. 1	1
	96931, 96932. No. 99312 Crankshaft	. 3	-		No. 92290 Lockwasher — N		1	,
	Used on type Nos. 25100, 25103	,			$10x_{\overline{16}}^{1}x_{\overline{64}}^{3}$ (4)			
	25104, 25105, 25106, 25107, 25108	,			Used to mount No. 29034 Fu			
	25109. No. 99348 Crankshaft	9			Tank on type Nos. 95965, 9597			
	Used on type Nos. 25125, 25127	,			95981, 96928, 96930, 96940, 9694 96947.	6,		
	25128, 25129, 25130, 25131, 25150	,			No. 29865 Tank—Fuel	. 1	1 8	₹
26152	25151, 25153, 25154, 25155, 25156 Spring—Pedal and Lever Return				Used on type No. 25104.			
26172	Spring—Pump Plunger		3	29878	Rope—Starter			3
26267	Spring—Control Wire Return			38852	Washer—Armature			
26328	Spring—Governor			61703 61756	Gear—Cam		1 8	ś
	Note: No. 26111 Spring—Governor			01700	Siandard		. 1	L
	Used on type Nos. 95965, 95971 95981, 96928, 96930, 96940, 96946				Ring—Piston, Oil—Standard			
	96947.		ĺ		Key—Flywheel		. 1	I
26330	Spring—Breather Retainer	1		017.00	Ring—Piston, Compression, Center- .010" O.S		.)	Ł
	Used on engines with inside breathers.	•		61769	Ring-Piston, Compression, Center-	_		
26398	Link—Throttle	1	•	61770	.020" O.S		. 1	Ĺ
	Note: No. 62893 Link—Throttle	1		01	.030" O.S		. 1	l
	Used on engines before Serial No. 348424.				Ring—Piston, Oil—.010" O.S		. 1	
	No. 26116 Throttle—Link	1	1		Ring—Piston, Oil—.020" O.S Ring—Piston, Oil—.030" O.S			
	Used on type Nos. 95965, 95971,	,			Bracket—Fuel Tank (Replaced by N			
	95981, 96928, 96930, 96940, 96946, 96947.	,			22858)			
26478	Spring—Exhaust Valve	1		,	Note: Used on carburetor side of en			
26657 27043	Spring—Throttle Adjustment	1			gines equipped with base usin eight mounting screws for moun	-		
27043	Gasket—Engine Base		ļ		ing to cylinder.			
	with locating dowel pins for		j.		No. 61881 Bracket—Fuel Tank		2	•
•	mounting cylinder to base. On		:	*	Used on type Nos. 95809, 9581			
	engines using eight screws for mounting cylinder to base see				95818, 95826, 95839, 95846, 9587 95948, 95954.			
	Part No. 68337 Gasket.			61944	Head—Cylinder	. 2	2 .	-
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, 9681)	
	Used with %" dia. shut-off lever.				No. 21340 Head—Cylinder Used on type Nos. 95965, 9597			•
	Note: No. 27019 Packing—Fuel Shut-		-		95981, 96928, 96930, 96940, 9694			
	off Lever	- 1		61947	96947. Housing—Starter Clutch		. 1	ı
	10 mm on 10 to 101		۔ ا	ATA.#1	, orange of the control of the contr	• •	. 1	

MASI PAR	<u>T</u>	V	VEIC		MASTER PART	SHIPPING WEIGHT
NUME			.bs.	Oz.	NUMBER NAME	I.bg Ωσ
61973	Clatter Clatter tricing		.1	••	63794 Pinion—Starter	Control of the state of the sta
	Note: No. 21335 Housing - Sto	rrter			63807 Valve—Exhaust	
	Clutch			14	63810 Valve—Needle	
	Used on type Nos. 95965, 96				62021 Warner Control II 1 C	
	96946, 96947.	,			63821 Wrench—Scoket Head Scre	$w_{\frac{-5}{16}}^{0}$ 2
	No. 21417 Housing - Sto	rrtor			63949 Stud—Air Cleaner	
	Clutch			14	63965 Plunger—Oil Pump	
	Used on type Nos. 95971, 96	930	•	1.1	63967 Plug—Tank Bracket	
	No. 21475 Housing — Sto				65294 Washer—Fuel Tank Outlet.	
	Clutch			14	65304 Washer—Filler Cap	
	Used on type Nos. 95981, 96	9 <u>4</u> 0		17	65534 Gasket—Filler Cap	
	No. 61700 Housing — Sto				65616 Casing—Control Wire 72" L	
	Clutch		1		Note: If longer casing is	
	Used on type No. 95948.	• • • •	1	••	specify length in	
	No. 61781 Housing — Sto	4			shorter casing is need	
	Clutch Housing — Sic	rrer	1		No. 65616 and cut to	
	Clutch		1	••	length.	, rodanoa
	96921.	300,			65664 Washer—Float Valve Seat.	
	No. 61806 Housing - Sto	crton			65704 Plunger—Contact Point	
	Clutch	iriei	1		65787 Gasket—Fuel Pipe Connecto	
	Used on type No. 95935.	• • •	1	•-	65794 Insulator—Armature	
	No. 61937 Housing — Sto					
	Clutch		1			
	Used on type Nos. 95919, 95	939	1		Used on engines w	in inside
	96911.	000,			breathers.	
62007	Clamp—Fuel Tank			1	66114 Washer—Cylinder Mounting	· · · · · · · · · · · · · · · · · · ·
	Note: No. 62965 Strap-Fuel Tank			3	66186 Spring—Throttle Adjusting .	
	Used on type Nos. 95965, 95		••	3	66416 Casing—Control Wire—934'	
	95981, 96928, 96930, 96940, 96	946			Note: If longer casing is	
	96947.	,	5		specify length in i	
	No. 90321 Nut-Square-10-33	2 (4)	•	1	shorter casing is need	
	No. 90083 Screw—Machine,	D.7		1	No. 66416 and cut to	required
	Hd.—10-32x5/8" (2)	II.		1	length. 66432 Washer—Speed Adjuster ar	10 . 1
	No. 91366 Screw-Machine,	Rd	••	•		
	Hd.—10-32x78" (2)	na.		l	Casing	
	No. 92290 Lockwasher —			•	67307 Gasket—Magneto Plate—.01 67316 Spring—Governor	5" Thick 1
	$10x_{16}^{1}x_{64}^{3}$ " (4)			1	67527 Gasket—Valve Cover	······· _ 2 ····· _ 1
	No. 67072 Washer (2)		••	1	67537 Gasket—Cylinder Head	
	Used to mount No. 62965 F			1	67597 Gasket—Magneto Plate—.00	
	Tank Strap on blower hous	ing			67607 Gasket—Magneto Plate—.00	
	on type Ncs. 95965, 95971, 959	181			67617 Packing—Needle Valve	
	96928, 96930, 96940, 96946, 969	147.			68122 Plug—Cam Shaft	1
62536	Cup—Starter Return Spring			1	68337 Gasket—Engine Base	
62538	Washer-Clutch Retainer		••	ì	Note: Used on all engines	
62577	Washer—Flywheel	• • •		1	with base using eight s	
	Note: No. 62903 Washer—Flywhee			1	mounting to cylinder.	On en-
	Used on engines with foot			1	gines equipped with	locating
	hand lever starters on blow	ATOT			dowel pins for mounting	g cylinder
	housing side.				to base see Part N	o. 27043
62600	Stop-Starter Pedal			6	Gasket.	
62641	Plate—Speed Adjuster Retainer	• • •		ì	68397 Cork	
	Note: No. 62575 Spring—Speed	Ād-		7	68437 Packing—Needle Valve	
	juster			1	68467 Gasket—Carburetor Mounting	
	Used on type No. 25104.			_	68477 Gasket—Fuel Filter Bowl	
62651	Washer-Carburetor	• • • .		1	68487 Bowl—Fuel Filter	
	Note: No. 62628 Washer-Carbure	etor .		1	68537 Gasket—Gear Cover	
	Used on type No. 95948.			_	68957 Gasket—Air Cleaner Mount	ing 1
62693	Pulley—Rope Starter		ī	2	Note: No. 68287 Gasket—Ai	r Cleaner
62702	Washer—Choke Valve			1	Mounting	1
62812	Bracket—Control Wire Casing	• • • •	••	1	Used on engines before	
62835	Cover—Dust	• • • •			No. 81165.	1.0
62842	Spacer—Dust Cover	• • • •		8 1	69149 Float—Carburetor	4
62891	Wrench—Spark Plug		••	4	69221 Cap—Fuel Tank	2
62899	Washer-Needle Valve Packing			ì	Note: No. 69961 Cap—Fuel	Tank 2
62966	Switch Stop			î	Used on type Nos. 9596	35, 95971,
63058	Connector—Fuel Pipe			î	95981, 96928, 96930, 9694	
	Note: No. 66111 Connector—Fuel P.	ipe .		1	96947.	
2	Used on type Nos. 95965, 959	7Ì.			69345 Cap—Oil Filler	
	95981, 96928, 96930, 96940, 969	46,			89282 Carburetor Assembly	
	96947.				89291 Starter Assembly—Hand	
63136	Pin—Needle Valve Stop	' .		1	Note: No. 89443 Starter As	
63426	Locknut—Control Wire Casing			ī	Hand	- 1 6 1 A
63699	Seat—Float Valve			1	Used on type Nos. 9596	
63770	Ball—Clutch		_	1	95975, 96934, 96945.	5 . 5
63771	Bushing—Starter Sector		-	1	No. 89485 Starter Ass	
63782 63785	Valve—Intake	•••	-	2	Hand	
63788	Shaft—Cam	•• -	-	3	Used on type Nos. 9597	
20,00	Tappet—Valve	•••	-	1	(See Next F	'age)

MASTI				PING IGHT			MASTI PART			SHIPPIN	
NUMB	ER	. NAME		Oz.			NUMB		NAME	WEIGHT Lbs. Oz	
		No. 99430 Starter Assembly				.	89599		ably—Governor		
		Hand			•			Note: No. 62	598 Plate Baffle	1	
		Used on type Nos. 95853, 959	33,`						n type Nos. 95830, 95		
		95934, 95936, 95942, 95954, 959 95966, 95969, 95978, 95979, 969)1,)1			ŀ		95841,9		,	
		96905, 96915, 96926, 96937, 969							159 Blade Assemb		
	_	96941, 96944.							n type Nos. 95965, 95		
89296		—Carburetor		6					6928, 96930, 96940.	,	
89297		er—Carburetor		2			89612	Cover Assem	ıbly—Gear Case	3	
89307 89322		e—Oil Return		1			89660		• • • • • • • • • • • • • • • • • • •		
00022		nder : On engines equipped with bo		**					n engines after Seria	l No.	
		using eight screws for mounti	na					308000.	495 Ring—Oil Retain	ner 1	
		to cylinder and not otherw	se						n engines before S		
		listed in this "Note" use: 1	lo.					No. 308	1000.		
		29746 Cylinder. No. 29746 Cylinder	10				89 677 –	-Bushing-Cy	linder or Magneto	4	
		On engines equipped with loc		••					n engines after Serial	No.	
		ing dowel pins for mounti						308000. Include:	s: No. 89660 Seal—	Ofl.	
		cylinder to base and not oth	∋r-						2247 Bushing — Cyli		
		wise listed in this "Note" us No. 89322 Cylinder.	e:			{		and Ma	gneto	2	
		No. 89089 Cylinder	13						n Power Take-off sid	le of .	
		Used on type Nos. 95958, 9596							"WR" engines. 40 Bushing—Cylinde	er 3	
		No. 89597 Cylinder							n engines before S		
		Used on type No. 25130.			,			No. 308	000.		
		No. 89608 Cylinder	.: 13					Includes Retaine	s: No. 23495 Ring —	– Oil	
		Used on type Nos. 95884, 9588 96806, 96807, 96811, 96815, 968							58 Bearing—Ball	4	
		96824, 96831, 96839, 96841, 968	55.						76 Seal-Oil		
		No. 89648 Cylinder	1,3					Used or	n Power Take-off side	e on	
		Used on type Nos. 96923, 9692				.			os. 25175, 25177, 25	5200,	
		No. 99090 Cylinder Used on type Nos. 95804, 9580					89966		5226, 25227, 95833.	1 6	
		95813, 95821, 95823, 95825, 9582	.5, 29.						807 Muffler		
		95831, 95838, 95845, 95850, 958	4,			1			1 type Nos. 95950, 96		
		95860, 95864, 95871, 95878.	10						66 Muffler		
		No. 99311 Cylinder Used on type Nos. 25100, 2510			•				ı type Nos. 95809, 95 5976, 95977, 96808, 96		
		25104, 25105, 25106, 25107, 2510	18.					96936.			
		25109, 25125, 25127, 25128, 2512	29,			-	90066		ine—Rd. Hd.—8-32x		
		25150, 25151, 25154, 25155, 2515				1	90067 90081		ineRd. Hd8-32x		
		No. 99750 Cylinder Used on type Nos. 25175, 251		••		-	90202		ine—Rd. Hd.—10-32: ine—Fill. Hd.—10-32:		
		25200, 25225, 25226, 25227, 958	33.				90313		-32		
89346	Filte	r Assembly—Fuel		10			90355	Nut—Hex.—1	0-32	1	
89347 89409	Cove	er—Fuel Filter	• • •	2					-No. $8x_{1}^{3}x_{2}^{2}$ "		
03403	Dase	—Engine (Dim. "A" — 31/8".) Oil fil	6	'			90366	Lockwasher—	$\frac{5}{16}$ x $\frac{1}{8}$ x $\frac{1}{16}$ "	l	
		nipple opposite carburetor, us	es es				30307		-No. 8x54x32" 0364 Lockwasher –		
		locating dowel pins for mounti	ng					8x ₆ ⁴ x ₃ ²		1	
	Noto	cylinder to base.	^						a carburetor on type	Nos.	
	11010	: No. 89362 Base—Engine (Dim. "A"—51/8".) Oil fil	or o				90528	95948, 1		1-	
		nipple opposite carburetor, us	es			,	30020		neto Mounting 2134 Screw — Mag		
		locating dowel pins for mounti	ng						g		•
		No. 89407 Base—Engine							n type No. 96947.		
		(Dim. "A" — 51/8".) Oil fil	er o				90733 90781		-½x1¼"		
		nipple under carburetor, uses	lo-						nine—Fill. Hd.—8-32x -½x332x54"		
		cating dowel pins for mounti cylinder to base.	ng						4-28		
		No. 89408 Base—Engine	Я						on engines with in		-
		(Dim. "A" $5\frac{1}{8}$ ".) Oil fil	er.	••				breathe			
		nipple opposite carburetor, mo	tg-			ĺ	90916		nine, Rd. Hd.—1/4-20x		
		neto side starter mounting lucuses locating dowel pins	js,						916 Screw—Machine -20x½"		
		mounting cylinder to base.	•					No. 908	32 Lockwasher—	* .	
		No. 89436 Base—Engine	8		` .		_		X64"		
		(Dim. "A" $-3\frac{1}{8}$ ".) Oil fill nipple opposite carburetor, mo	er		•		•		o mount Blower Hou nder Head on type		
		neto side starter mounting luc	ıs,					95965, 9	5971, 95981, 96928, 96	3930,	٦.
		uses locating dowel pins	or					96940, 9	6946, 96947.	* ; * ;	٠.
		mounting cylinder to base. For bases using eight screws	or				90950		Hex. Hd.—5-24x¾"		
		mounting to cylinder see Mas	er						-Shakeproof No. 120 3%"		
		Part No. 99739 and "Note	s"				91208	NutHexī	⁵ ₆ -24	1	
		listed under it.				l	91237	Lockwasher	-1/4x32x64"		

MASTI		SHIPE			MASTI	ER	S	HIPI	PING
PART NUMB		WEIO			PART				GHT
91253	Screw—Machine, Fill. Hd.—6-32x16"			.	91901	ER NAME Screw—Cap, Hex. Hd. $\frac{7}{16}$ -20x1 $\frac{1}{2}$			Oz.
91321	Screw-Machine, Rd. Hd1/4-20x3/8"		1	er i	92000	Screw—Cap, Hex. Hd.—1/4-28x11/	" ¹ -ij	18	8
91324	Washer—1/4" Standard	• ••	1	~ 7		Note: No. 91183 Screw - Cap,	Hex.		
91359			1			Hd.—1/4-28x%"			, 1 -
	No. 62890 Washer—Carb. Mtg					Used on engines before Se No. 49477.	erial		1
	Note: No. 92013 Screw — Machine Fill. Hd.—10-32x11/1"				92067	Nut—Wing			1
	Used on type Nos. 95965, 95971				92129	Nut—Hex.—1/4-28			ī
	95981, 96928, 96930, 96940, 96946	,			92227				1
91401	96947.		,		92235				1
91413	Screw—Machine, Fill. Hd.—8-32x1/4" Pin—Cotter—1/2x1"		1		92236	Screw—Cylinder Mounting			1
91419			1			Note: No. 92249 Screw — Cap, 1 Hd.—36-24x2½"	iex.		1
	Used to mount oil pump to base		•	b.		Used on earlier models of			•
	on engines equipped with loca	-				Nos. 25130, 95872, 95883, 95	969,		
	ing dowel pins for mounting	1			02205	95970, 95975, 95978, 95979, 96			,
91488	cylinder to base. Plug—Pipe—1/8"		1		92285	Pin—Cotter—No. 18x¼" Screw—Machine, Rd. Hd.—10-32x			1
	Note: No. 90878 Plug—Pipe—1/4"		ì		92290	Lockwasher—No. $10x_{16}^{1}x_{34}^{3}$ "			1
	Used on engines with 1/4" pipe				92305	Washer—Control Lever			ī
015/1	tapped oil drain hole in base				92306	Screw—Cap, Hex. Hd.—1/4-20x5/8"			1
91541 91635	Screw—Cap, Hex. Hd.—5-24x%"	·	_			No. 90802 Screw — Cap, 1			1
91636	Connector—Fuel Filter Screw—Set, Socket Head, Cup Point		1			Note: Hd.—1/4-20x1 1/2" No. 92278 Nut—Hex.—1/4-20			1
	$-\frac{5}{16}\cdot24x\%''$		1			Used to mount control leve		••	-
	Note: No. 91758 Screw - Set, Socke	t	-			lever base on type Nos. 95	908,		
	Head, Cone Point $\frac{5}{16}$ $\frac{24x}{2}$		1		92324	96808. Rivet—Tubular—1/8x32"			-1
	Used on type Nos. 95804, 95810		ř		92427				î
	95821, 95822, 95836, 96806, 96811 96814.	,			92604				1
91700	Nut—Hex.—1/4-20		1			Note: No. 91849 Screw—Connec			1
91708	Nut—Flywheel		1			Used on engines before Se		••	1
	Note: No. 91900 Nut—Flywheel	·	1			No. 108719.			
	Used on engines with foot on hand lever starter on blowe				92634	Screw—Machine, Rd. Hd.—5-40x%			1
	housing side.	L			99023	Cleaner Assembly—Air Note: No. 89281 Cleaner—Air			·8 ·5
91711	Screw—Cylinder Head		1			Used on type Nos. 95965, 95		••	
	No. 63337 Spacer		1			95981, 96928, 96930, 96940, 96	946,		
	Note: No. 68873 Spacer		1		99098	96947. Wire—Choke Control			6
	Used to mount cylinder head or		,1		00000	Note: No. 29228 Wire—Choke Co			6
	blower housing side on typ					Used on type Nos. 95814, 95	850,		
	Nos. 25151, 25153, 95847, 95949	,				95852, 95866, 95872, 95883, 95 95969, 95978.	912,		
	95974, 96820, 96917, 96933. No. 91386 Screw—Cylinder Hea	J	1			No. 99643 Wire—Choke Co.	ntrol		6
	Used on type Nos. 95967, 95970		1			Used on type Nos. 95821, 96	811.		
	95975, 96934, 96945.	•			99099				4
91741	Screw—Pedal Return Spring Cup		1	4		Note: No. 69002 Pipe—Fuel— $\frac{3}{16}$ " x $4\frac{1}{16}$ " Long	Dia.	-	3
91753 91758	Screw—Machine, Fill. Hd.—8-32x1".		1			Used on type Nos. 95965, 95	971,		
91787	Screw—Set, Socket Hd.—\frac{5}{16}-24x1/2" Screw—Cap, Hex. Hd.—1/4-28x2"		1 1			95981, 96928, 96930, 96940, 96	946,		
91796			1			96947. For other lengths of 1/8"	dia		
	No. 91207 Screw — Cap, Hex		-			Fuel Pipes specify:	u.u.		
	Note: $\left\{\begin{array}{c} Hd\frac{5}{16} \cdot 24x2'' \\ N - 6000 \end{array}\right\}$		1			No. 29243 Pipe—Fuel—10" I			4
	Used on top two holes in gea		1			No. 29411 Pipe—Fuel—13" I		••	4
	case on type No. 25153.	r				No. 29826 Pipe — Fuel — 28		,	6
91805	Screw—Cap, Hex. Hd .— $\frac{7}{16}$ -20x1"		1			No. 29858 Pipe—Fuel—21" I			6
91807	Screw—Machine, Rd. Hd.—1/4-20x3/4"		1			No. 29919 Pipe—Fuel—18" I	ong		4
91808	Lockwasher $-\frac{7}{16}x_{32}x_{3}$	•	1	·		No. 64419 Pipe—Fuel—9" Lo			- 4
91810	Elbow—Exhaust		6			No. 64499 Pipe—Fuel—12" I No. 69324 Pipe—Fuel—6" Lo	_		4 4
	Note: No. 63783 Fitting—Exhaust E.	·	6			No. 69339 Pipe—Fuel—14" I			4
	bow		2			No. 69357 Pipe—Fuel—40" I			6
	Used on type Nos. 95948, 95950	,				No. 69404 Pipe—Fuel—16" I	ong		4
•	96918. No. 91812 Elbow—Exhaust		6		00100	No. 99095 Pipe—Fuel—20" I		_	4
	Used on type Nos. 95809, 95828		·		99103	Pedal—Foot Starter Note: No. 29704 Pedal—Foot Start		1	
	95853, 96808, 96813, 96847, 96853					Used on type Nos. 95909, 95			•
	96941.	* 1	_			No. 29879 Pedal—Foot Start	er	1 .	• • • • • • • • • • • • • • • • • • •
	No. 91960 Elbow—Exhaust No. 91258 Nipple—Exhaust		6			Used on type Nos. 95950, 96		3	4.00
	Used on type Nos. 95933, 95979	,	J/			No. 29882 Pedal—Foot Start Used on type No. 95939.	G1	٠.	·
91811	96938.		^			No. 29921 Pedal—Foot Start	er	1	4
91833	Locknut—Exhaust Elbow	• •- ′	2 1			Used on type No. 95912.	or.	7	
91846	Screw—Machine, Fill. Hd.—8-32x34"		ĺ		1	No. 99666 Pedal—Fcot Start Used on type No. 95948.	J1		
						· ·		ť	

MASTI		SHIPPING	MASTER			PING
NUMB		WEIGHT Lbs. Oz.	PART NUMBER	NAME	WEI	Oz.
99104	Starter Assembly—Foot	· · · · · · · · · · · · · · · · · · ·		No. 99743 Base—Engine		
	Note: No. 29804 Starter Assembly -		. ,	Square mounting lugs, oil fille		7.
	Foot			nipple on magneto side, mag		1.34
	Used on type No. 95939. No. 29809 Starter Assembly—Fo	ot 3		neto side starter mounting lugs with eight holes for mounting to		
	Used on type Nos. 95909, 9592			cylinder.	•	
	No. 29880 Starter Assembly—For	ot 3		oort Assembly—Foot Pedal		6
	Used on type Nos. 95950, 9691 No. 29920 Starter Assembly—Fo			r and Support Assembly—Hand .ster—Speed		ï
	Used on type No. 95912.	or o	99955 Pum	p Assembly—Oil	. 1	-
	No. 99660 Starter Assembly—Fo	ot 3	290059 Leve	r—Fuel Shut-off, ¾" Dia. "T	"	•
99106	Used on type No. 95948. Elbow—Air Cleaner	6	Note	ShapedFuel Shut-of		2
99165	Valve—Needle	3	11016	3" Dia. "L" Shaped		2
99272	Clutch Assembly—Starter	. 1		ey-Drive, V-Belt, 2" Dia	. 1	••
99288 99291	Cable—Ignition		Note	: No. 29913 Pulley—Drive, V-Bel land		8
00201	Note: No. 99597 Breather—Outside.			Mounted on blower housing sid		U
	Used on earlier model "WF			on type Nos. 95907, 95917, 95942		
99306	engines. Pedal—Starter	1		96915. No. 63991 Pulley—Drive, V-Bel	+	
99307	Starter Assembly—Foot			2" Dia		
99313	Gear-Intermediate			Used on type Nos. 95810, 95822	2,	
	Note: No. 89123 Gear—Intermediate Used on type Nos. 25105, 2512			95836, 96814. No. 99079 Pulley—Drive, V-Bel	+	
	25128, 25154, 25155.			2%" Dia		••
99314	Drive Shaft Assembly	2		Used on type Nos. 95804, 95821	.,	
	Note: No. 89121 Drive Shaft Assembly			95864, 95882, 9588 4, 9 6806, 96811 96839.	,	
	Used on type Nos. 25105, 2512 25128, 25154, 25155.	<i>'</i> ,	290413 Cap-	—Oil Filler		4
	No. 89174 Drive Shaft Assemb		290548 Brea	ther Assembly	•	2
	Used on type Nos. 25129, 2513 25153.	0,	290568 Leve	r Assembly — Control (Stampe Steel)		4
99317	Seal—Oil	4	Note	: No. 29035 Lever Assembly -		
99320	Control Assembly—Throttle	6		Control		
99339 99349	Starter Assembly—Hand	3		Used on type Nos. 95809, 96808 No. 89583 Lever Assembly -		
33010	Clutch Assembly—Starter Note: No. 29741 Clutch Assembly-			Control (Cast Iron)		
	Starter			Used on type Nos. 95841, 96816		,
	Used on type No. 95948.			No. 92282 Screw Includes: No. 92289 Screw -		1
	No. 29853 Clutch Assembly - Starter			Clamp (2)		1
	Used on type Nos. 95905, 9595	6,		—Control Lever (Stamped Steel)		2 6
	96921. No. 29951 Clutch Assembly -	_	Note	: No. 21441 Base—Control Leve Used on type Nos. 95841, 96816		U
	Starter			No. 65631 Base—Control Lever	•	6
	Used on type No. 95935.		290642 Terre	Used on type Nos. 95809, 96808 Control (Stamped Steel)		2
	No. 89275 Clutch Assembly - Starter			Magneto		
	Used on type Nos. 95965, 9692		Note	: No. 290869 Plate—Magneto		••
	96946, 96947. No. 89476 Clutch Assembly -			Used on type Nos. 25128, 95801 95901, 95938, 95940, 95946, 95960	l,	
	Starter	2		95965, 95971, 95972, 95980, 95981		
	Used on type Nos. 95971, 9693	0.		96804, 96808, 96847, 96914, 96925	5,	
	No. 89665 Clutch Assembly - Starter			96928,96930, 96931, 96939, 96940 96946, 96947.	J,	
	Used on type Nos. 95981, 9694		290893 Mag	neto Assembly	. 6	
	No. 99226 Clutch Assembly -	*** ** *		: No. 290772 Magneto Assembly		
	Starter			Used on type Nos. 95965, 95983	l, .	
	96911.	3,		96928, 96940, 96946, 96947. No. 42215 Connector.	•	1
99588	Lever Assembly—Throttle	2		Includes: No. 66115 Wire —		
99630 99632	Cleaner—Air Tooth Assembly—Spring			Ground		1
99640	Rod Assembly—Connecting	8	*	No. 290894 Magneto Assembly. Used on type Nos. 95971, 96930		••
99665	Ycke—Fuel Filter	2		No. 42215 Connector.		1
99739	Base—Engine			Includes: No. 66195 Wire —		, ₁
	nipple on power take-off sid	e,		Wo. 290895 Magneto Assembly.		
	with eight holes for mountir	ng		Used cn type Nos. 25128, 9580	1,	
	to cylinder. Note: No. 99736 Base—Engine	8		95901, 95938, 95940, 95946, 9596 95972, 95980, 96804, 96808, 9684		
	Square mounting lugs, magne	to		96914, 96925, 96931, 96939.	′ ′	
	side starter mounting lugs, wi	th		Includes: No. 66155 Wire —		2
	eight holes for mounting to cy inder.	1.34		Ground No. 290896 Magneto Assembly		1
	No. 99740 Base—Engine	. 8 .		Used on type Nos. 95830, 9583		. **
	Square mounting lugs, oil fill	er		95841, 96816.		_
	nipple on magneto side, wi eight holes for mounting to cy	ın zl-		er Assembly—Control Assembly—Piston—Standard		3 2
	inder.	(* · .		Assembly—Piston—Standard Assembly—Piston—.005" O.S		2

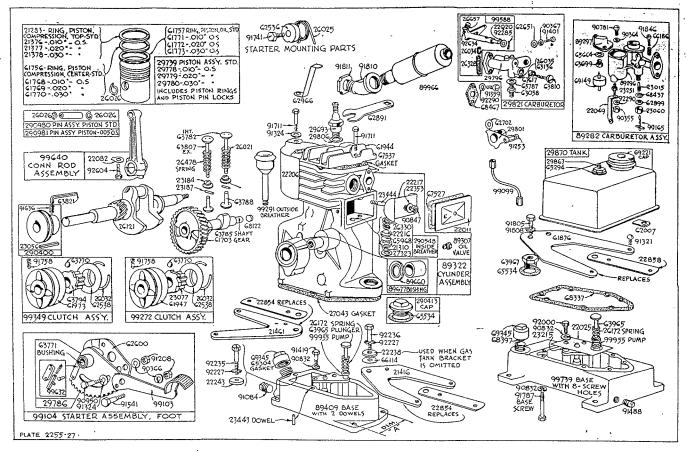
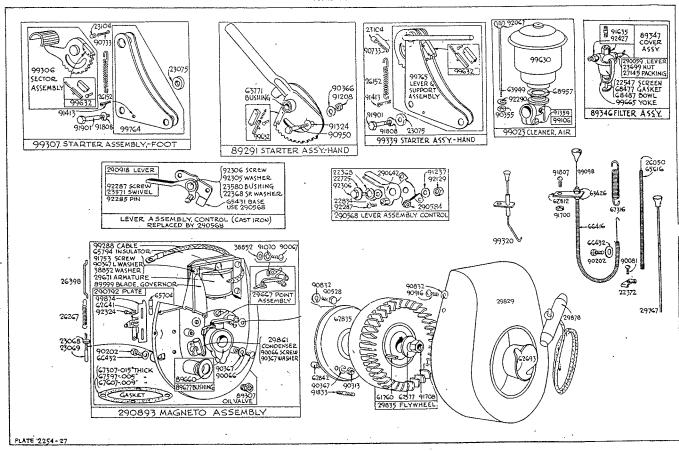
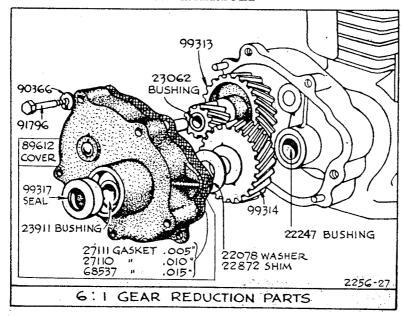


Plate No. 18



ASSEMBLIES INCLUDE ALL PARTS SHOWN IN BRACKETS

Plate No. 19 Gear Reduction Parts



ABOVE PARTS LISTED ON PAGE 11 THROUGH 16

NATION-WIDE SERVICE ORGANIZATION

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.

Each Authorized Service Organization carries a complete stock of original Briggs & Stratton repair parts. Each is equipped with special factory service tools and factory-trained mechanics, assuring expert repair service on all Briggs & Stratton motors.

All Authorized Service Organizations are instructed by the factory to replace free of charge all parts found to be defective in either material or workmanship, according to the conditions of the Briggs & Stratton Guarantee.

All gratis work done under the warranty is the responsibility of the Authorized Service Organization until all the material involved and supporting facts are submitted to and approved by the factory.

CTRTT

In a difference of opinion regarding a Service Organization's decision, their terms should be accepted and, either through them or direct, have all materials and supporting facts submitted to the factory for review.

Genuine Briggs & Stratton service will assure continuous motor satisfaction. Our long experieence in motor maintenance prompts us to urge that all service work be done by an Authorized Service Organization or at our factory. Mechanics unfamiliar with Briggs & Stratton products, or without proper tools, should not be permitted to make major repairs.

Parts and repair work are F. O. B. Factory or any Authorized Briggs & Stratton Central Service Distributor, or Motor Service Station. The Central Service Distributor nearest you (see list below) will be glad to give you the name of our Motor Service Station in your locality. Space does not permit listing here.

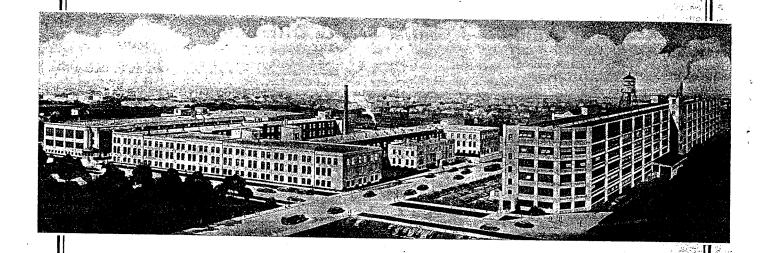
Authorized Central Service Distributors

STATE	CITY	dending service Distillontols	
Alahama	District A	NAME	LOCATION
Arizona	Birmingham 3	Birmingham Electric Battery Co	Ave. B. at 23rd St
indiana	Indianapolis 1	Gulling Auto Electric Co	450 N Conitol Ave.
North Dakota	.Fargo	Reinhard Brothers, Inc.	201 N. Dester F.
Texas	. Dallas 1	Beard & Stone Electric Co., Inc.	2000 Time Out Ct
Texas	. Houston 1	Beard & Stone Electric Company, Inc.	Milam at Polls Ass
Washington	.Spokane	Sunset Electric Co. Sunset Electric Co.	N 703 Division Co
Wisconsin	. Milwaukee 2		919 N Pro-June
		DOMINION OF CANADA	.oro M. proddwdy
Manitoba	Winninger	The serve was a way on the server of	380 H
Ontario	.Toronto-5	Auto Electric Limited	.176 Fort St.
•		Line Decitic Betwice Company Limited	. 1009-27 Bay St.

Only Authorized Service Organizations
Display this Sign —



Your Assurance of Efficient Briggs & Stratton Service



WHERE BRIGGS AND STRATTON MOTORS ARE MADE

HESE large and modern factory buildings, located in Milwaukee, Wisconsin, are complete with all modern equipment and machinery for precision construction, economical production, rigid inspection and thorough testing of Briggs & Stratton 4-cycle gasoline motors.

Briggs & Stratton Corp. produces more small 4-cycle air-cooled gasoline motors than any other manufacturer in the world.

BRIGGS & STRATTON CORP., MILWAUKEE 1, WIS.

