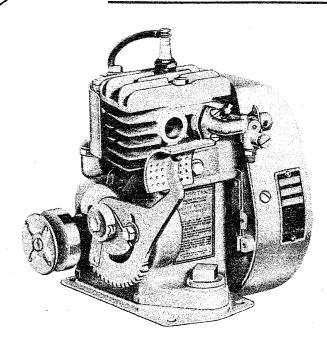
Operating Instructions

MODEL "WMB"

WASHING MACHINE MOTOR

Adjustment and Repair Information

Parts List



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Authorized Central Service Distributors

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 the "WMB" Motor. This book tells you how.

Each Briggs & Stratton 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 "STARTING AND OPERATING THE MODEL "WMB" MOTOR"
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.

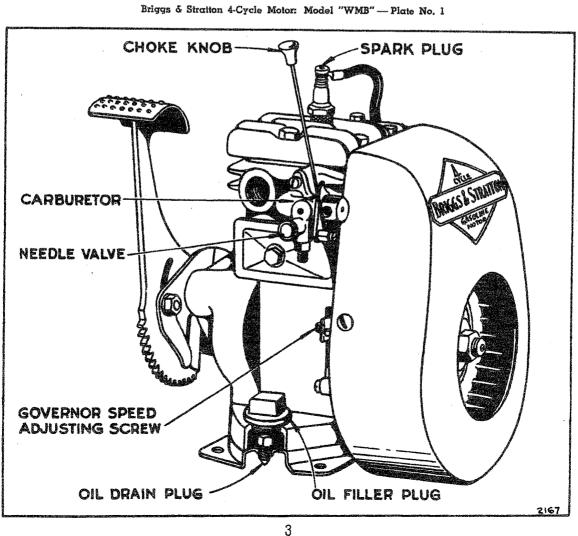
Starting the Model "WMB" Motor

	Paragraph
Before Starting the Motor	
How to Start	<i></i> 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. A HEAVIER OIL MUST NOT BE USED. Remove blue oil filler plug, slowly pour the oil directly on top of the oil drain plug so that the oil runs down the sides of the plug into the reservoir. This will prevent spilling. Crankcase holds $\frac{1}{3}$ pint. Fill the gas tank with a good, clean, third grade gasoline. Tank holds I quart. Do not mix oil and gasoline. See paragraphs 11 to 19.
- 2. HOW TO START. Pull up the carburetor choke knob. Step down quickly on starter pedal and repeat rapidly until motor fires. As the motor warms up, gradually adjust choke until motor operates smoothly. Operate carburetor choke the same as you operate the choke on your automobile. A hot motor does not require as much choking as a cold motor. See paragraph 20.
- 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. Pull the choke knob all the way out and hold until motor stops firing.

- Paragraph How to Stop..... General Data
- 5. GENERAL DATA. You will find your Briggs & Stratton 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.
- 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 on page 4. If you cannot easily remedy it, consult your dealer, or a nearby Briggs & Stratton Authorized Central Service Distributor. See page 15.

CAUTION: To Eliminate the Danger of Deadly Carbon Monoxide Gas, never operate the motor in any room without first installing the exhaust tube with the outlet outdoors at such a point that the poisonous gases will not be carried back into the room by air currents through windows or doors. For proper installation see paragraph 56.



Servicing Reference Chart

MOTOR FAILS TO START	MOTOR OVERHEATS Paragraph
Out of Gasoline	Out of Oil
	Oil Needs Changing 14-15
Out of Oil	Oil Too Heavy 14-15
Dirt or Gum in Fuel System	Carburetor Out of Adjustment
Incorrect Use of Choke	Poor Spark
Carburetor Out of Adjustment22 to 25	Carbon 53
Spark Plug Dirty	Overloaded 55-57
Ignition Cable Grounded	
Magneto	MOTOR LACKS POWER
Poor Compression41 to 49	Lack of Oil
Starter Clutch	Add or Change Oil
	Carburetor Out of Adjustment
MOTOR STOPS	Motor Not Up to Speed
	Poor Spark
Out of Gasoline	Poor Compression41 to 49
Out of Oil	Carbon 53
Dirt or Gum in Fuel System16 to 19	Muffler or Exhaust Hose Fitting Clogged
Motor Overheated	Exhaust Tubing 56
Motor Overloaded	Overloaded 55-57

Instructions for Adjustment and Repair

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Paragra	ıph	Paragraph
Operating Requirements	8	To Remove and Replace Magneto34
How a 4-Cycle Motor Works	10	Magneto Timing
Keep the Motor Clean		To Adjust and Clean Contact Points 36
Use the Right Kind of Oil		To Replace Condenser
		To Replace and Adjust Armature 39
Add Oil Regularly		Cylinder Head41
Change Oil Frequently		Compression
Use Clean Gasoline		Valve Adjustment 43
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	22	Oil Leaks
To Remove and Replace Carburetor		Carbon 53
To Remove and Replace Carburetor Throttle.	25	Air Cleaner
Governor—Correct Motor Speed	26	Muffler or Exhaust Hose Fitting
The Ignition System		Exhaust Tubing
To Check for Spark		Overload
Spark Plug Adjustment		Starter Pedal Adjustment
		Starter Clutch
Ignition Cable		Parts 60
To Remove and Replace Flywheel	3	raits

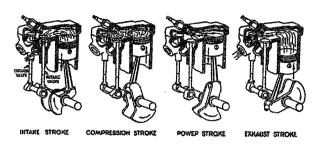
8. OPERATING REQUIREMENTS. A gasoline motor to operate properly must have all parts in correct adjustment to provide good ignition, carburetion, compression and cooling. And of equal importance, the oil and gasoline used must be **clean** and of the recommended grades. The following instructions fully 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.

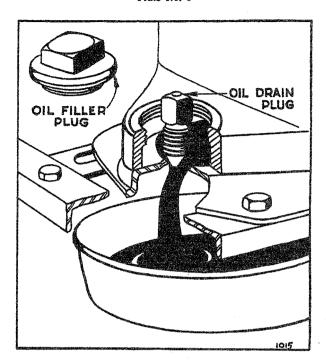
The 4-Stroke Cycle Plate No. 2



- 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.
- 12. USE THE RIGHT KIND OF OIL. Correct lubrication is important. We recommend the use of MOBILOIL "ARCTIC" or other high grade oil with similar characteristics having a low carbon residue and a body not heavier than S. A. E. No. 20. 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 efficient splash lubrication system. A dipper on the connecting rod dips into and throws oil to all moving parts. 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 approximately $\frac{1}{2}$ 3 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 blue oil filler plug and use special wrench furnished with your motor to unscrew oil drain plug located in base plate and remove it through oil filler opening. The old oil will drain straight down through this hole in the base plate into the pan or other receptacle you use. See plate No. 3. 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.

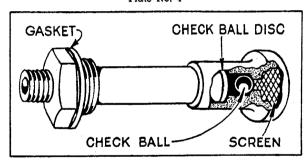
How to Drain Oil
Plate No. 3



- 16. USE CLEAN GASOLINE. A good, clean, third grade, fresh gasoline is recommended. Too high test gasoline may form vaporlock 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 brand 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. 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. 4. Check ball must close air passage when blowing through opposite end of pipe. When replacing gas pipe in tank,

be sure to place gasket between gas tank and gas pipe nut. IMPORTANT: If you find a gummy varnish-like substance, alcohol or acetone will dissolve it. See paragraphs 17 and 18,

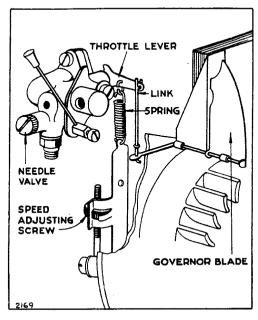
Gas Pipe Plate No. 4



- 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 part way down and then all the way down, or 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 on the Model "WMB" motor is of the suction type. The gasoline supply is regulated by a needle valve. The throttle is automatically controlled by the governor, see paragraph 26.
- 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 carburetor throttle 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 26.
- 24. TO REMOVE AND REPLACE CARBURETOR. Disconnect gasoline line from carburetor. Remove blower case. Remove valve

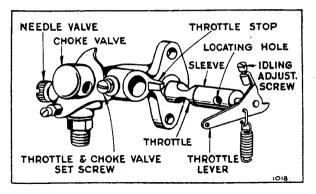
cover plate. Loosen two carburetor mounting screws. Carefully remove carburetor and, without stretching governor spring, unhook its lower end. Do not remove governor spring or link from throttle arm. Then unhook carburetor from the throttle link. To replace, reverse the operations as performed above. 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 No. 5. The throttle link must operate freely in the governor arm blade and the carburetor throttle arm.

Carburetor and Governor Hook-up Plate No. 5

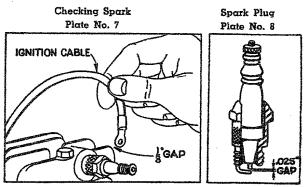


25. TO REMOVE AND REPLACE CARBURETOR THROTTLE. To clean the carburetor throttle, remove the carburetor as explained in the previous paragraph. To remove the throttle, loosen the set screw which holds the choke valve and carburetor throttle in place. The throttle is easily removed with the fingers. The throttle is part of an assembly consisting of the throttle, sleeve, throttle lever and governor spring. Clean in alcohol or acetone. Do not scrape. To reassemble, replace choke valve, insert throttle assembly into the carburetor body as far as it will go, lining up holes in sleeve with locating hole in body and with throttle stop between forked points of throttle lever. Push the sleeve of throttle in place by inserting a small tool between throttle lever and sleeve, so that set screw holes line up. Tighten set screw, being sure that choke valve friction spring, plain washer and lockwasher are in proper place.

Carburetor Throttle
Plate No. 6



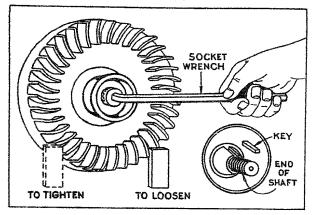
- 26. GOVERNOR CORRECT MOTOR SPEED. The speed of your Model "WMB" motor is automatically maintained under varying loads by a pneumatic governor. It is operated by the air current blown by the flywheel.
- 27. The governor was carefully adjusted at the factory to maintain normal speed under load. Do not re-adjust unless absolutely necessary. A sliding speed adjuster is located beneath carburetor. Moving the slide down increases motor speed, up decreases motor speed. Tap lightly to adjust. See plate No. 5. Recommended speed is from 2200 to 2400 RPM. The idling speed is set at 1100 RPM. On washing machine application, adjust motor speed to operate washing machine agitator at speed recommended by the manufacturer of your washer. To remove or replace governor parts, see paragraph 24.
- 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 1/8" 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. 7. (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 occasionally and points reset to .025". 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 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 thing. Always keep a new plug on hand. We recommend the use of Champion No. J8 or its exact equivalent.
- 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. 12.
- 32. TO REMOVE AND REPLACE FLYWHEEL. The flywheel is securely mounted to the crankshaft by means of a taper fit, a key, a LEFT hand nut and a spring washer. Remove the blower housing. Bolt or clamp motor to work bench. Place a wood block

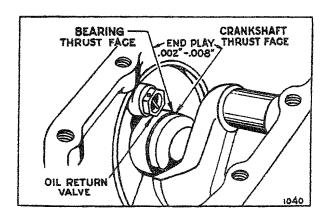
under flywheel fin on right side of flywheel or a small rod between fins, to hold it rigid and prevent turning as you loosen nut. See plate No. 9. Use large wrench, 10-inch or bigger. To start nut, to the RIGHT, tap end of wrench handle lightly with hammer. Tap carefully or a broken fin may result which 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.

Removing Flywheel Plate No. 9



- 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 cover plate from the valve chamber, remove carburetor, see paragraph 24, 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. 10. Use lockwashers under mounting screws.

Correct End Play Plate No. 10

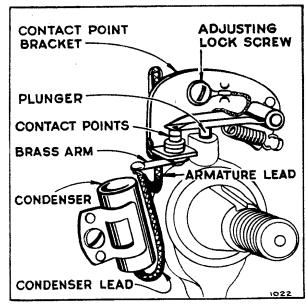


35. Magneto assembly is always correctly timed with the motor when the flywheel is assembled to the tapered crankshaft with a key and securely held in place with LEFT hand threaded nut.

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.

- 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 file contact points use fine sand paper or fine grit hone to clean points. 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.
- 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. 11. 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 does not deliver a satisfactory spark, we recommend sending the complete magneto and the flywheel to the nearest Briggs & Stratton Central Service Distributor, listed on page 15, for proper adjustment.

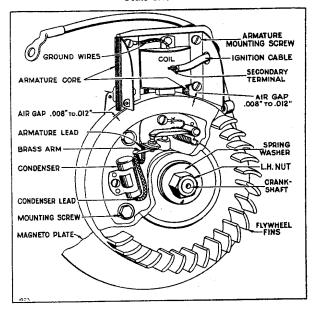
Contact Points and Condenser
Plate No. 11



- 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. 11 and 12. Replace mounting screws inserting loop of ground wires 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. 12.

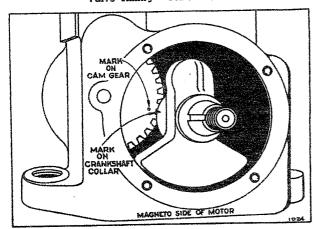
Complete Magneto Assembly Plate No. 12



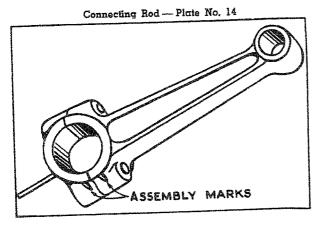
- 41. CYLINDER HEAD. The cylinder head is held on with six cap screws. When the cylinder head has been removed for the purpose of cleaning carbon or grinding valves, care should be used in replacing it. Use a new gasket if possible. Otherwise, clean the old one and coat both sides with cup grease. We 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.
- 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 .008" and on the intake valve .006" 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 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.

Valve Timing - Plate No. 13



- 47. PISTON. The piston in the Model "WMB" 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". 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 of cylinder be done by an Authorized Central Service Distributor or the factory.
- 49. PISTON RINGS. The piston rings when fitted in the cylinder should have a gap from .007" to .015". 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 in 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.



- 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 assembly marks on the lower bearing must be toward the magneto side. See plate No. 14. The assembly marks on cap and rod must be on the same side.
- 52. 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. 10.
- 53. 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.
- 54. AIR CLEANER. If an air cleaner is used it should be occasionally removed and cleaned by washing in kerosene, then dipped in oil to make it efficient in catching dust. Test to see if it is clogged by noting if motor performs better with it off. If clogged it should be replaced.
- 55. MUFFLER OR EXHAUST HOSE FITTING. After long periods of service it is possible that the muffler, exhaust hose fitting, or the exhaust tubing will become clogged and reduce motor power. To check the muffler run water into the open end. If full streams of water come out of the small holes at the opposite end it is O. K. If not, it should be replaced. Exhaust hose fitting is removed by unscrewing nut—holes should be fully open.
- 56. EXHAUST TUBING INSTALLATION. 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 part 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. To prevent poisonous exhaust gases escaping, when motor is to operate indoors, follow this correct assembly procedure: Place the exhaust fitting so that the outlet is directly over the cylinder head. Screw the locknut in place and tighten securely with a $\frac{15}{16}$ " open-end or crescent wrench. Slip the exhaust tube over the fitting and turn tubing to the right until its end fits tight against the shoulder of the exhaust fitting. See plate No. 15.

Plate No. 15

EXHAUST TUBE

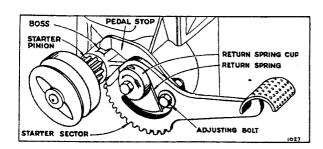
EXHAUST FITTING

CYLINDER HEAD

57. 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.

58. 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 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.

Starter Pedal Adjustment Plate No. 16



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

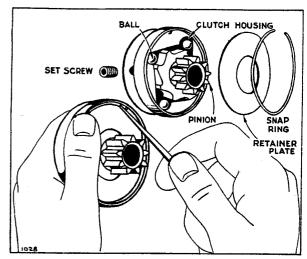
Loose set screw.

Worn clutch housing.

Worn or broken pinion.

First tighten the set screw to be sure clutch is tight on the crankshaft. Use $\frac{5}{16}$ " 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. 17, 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. 17



60. PARTS. All parts should be ordered from your dealer or the nearest Authorized Briggs & Stratton Service Distributor, listed on page 15.

Repair Parts

Paragraph	
Always Give Type, Model and Serial Number 62	
How to Make Out Parts Order	
Prices	

- **61.** 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.
- **62. 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.
- **63.** 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.
- **64. HOW TO MAKE OUT PARTS ORDERS.** Print your name and address plainly and correctly. Do not abbreviate name of town or state. Specify on the order how shipment to you is to be made. This will assist in giving prompt and efficient service.

											Page
Parts	List										11-13
Parts	Illustrations							,			14

- **65.** 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 to 13, and parts illustrations on page 14.
- **66.** After you have made out order, check back to see that you have followed all instructions and have accurately listed what you want.
- **67.** Shipments will be made C.O.D. or send remittance with order to cover parts and add what you think will be sufficient for 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.
- **68. PRICES.** All prices in this book are subject to change without notice. In case of change in prices, orders will be filled at current prices. All prices shown are F.O.B. Factory at Milwaukee, Wis., or nearest Authorized Central Service Distributor. Prices higher in Canada.

Model "WMB" Parts List

		AA SASSA	57		
PART NUMBE		PRICE EACH	PART NUMBE	R NAME E	RICE ACH
590E 19005 23068 23069 23131	Lockwasher	for .05 15 10 05 10		Piston Assembly — .020" Oversize	2.85
26021 26025 26026 26032 26033	Contact Bracket Spring Valve Spring Pedal Return Spring Piston Pin Lock Clutch Retainer Spring Governor Spring Crankshaft			Piston Assembly — .030" Oversize	2.85
	NOTE: No. 26163 used on type No. 95506.		29781	Piston — .010" Oversize	2.00
26163	Crankshaft	5.50	29782	Piston — .020" Oversize	2.00
29243	Gas Line — 10" long	25	29783	Piston — .030" Oversize	2.00
29411	Gas Line — 13" long	25	29786	Starter Sector	2.00
29544	Gas Line — 27" long	40 40	29788	Starter Pedal Assembly — right hand offset	3.25
29667	Breather Tube		29796	Carburetor Body	.65
	26018 Spring 29668 Arm		29799	Throttle Lever	.65
29669 29671 29673 29675 29693 29704	29669 Bracket Contact Brecker Arm Contact Bracket Armature Magneto Plate with Bearing. Crankshaft Bearings Spark Plug with Gasket Starter Pedal Cylinder Assembly Includes: 26021 Springs 29746 Cylinder 61703 Cam Gear 62534 Retainers 63782 Intake Valve 63785 Cam Shaft 63787 Retainer Pin 63788 Valve Tappet 63807 Exhaust Valve 68122 Cam Shaft Plug 69817 Oil Valve NOTE: No. 29849 used on type No. 95506. Piston Assembly — Standard Includes: 26026 Pin Lock 61732 Piston 61756 Compression Ring 61757 Oil Ring		29801 29804 29806 29807	NOTE: No. 61738 used on type No. 95506. Starter Pedal Assembly — left hand offset NOTE: No. 99101 used on type No. 95496. No. 99247 used on type No. 95486. Spark Plug Gasket	.25 3.25 .05
29741	NOTE: For Oversizes, see Nos. 29778 — .010", 29779 — .020", and 29780 — .030". Starter Clutch and Pulley	1.45	29821		1.75
	Includes: 26032 Spring 61700 Pulley 62538 Retainer 63770 Ball		29325	91199 Lockwasher All other parts same as No. 29800. Gasoline Tank	
00540	63794 Pinion 61758 Set Screw Pulley — 234" Dia	50	29826 29828	Carburetor Assembly	2.25
	NOTE: No. 29913 — 115" Dia. Cylinder with Bearing			Includes: 29851 Throttle Lever 29864 Connector	
29767	NOTE: No. 29847 used on type No. 95506.			29875 Body 61738 Choke Valve	
-	NOTE: No. 19005 — 9½" long. No. 29869 — 11½" long. No. 29876 — 15" long. No. 29909 — 9½" long. Piston Assembly — .010" Oversize			62651 Washer 62702 Choke Washer 63844 Needle Valve 63854 Retainer Screw 65787 Gasket 67617 Packing 91199 Lockwasher	
	26026 Pin Lock 29781 Piston 61768 Compression Ring 61771 Oil Ring		29830		. 3.25

29833	Cylinder Assembly	14.25	61760 61768 61769 61770 61771 61772 61773 61784	Scraper Compression Ring — .010" Oversize. Scraper Compression Ring — .020" Oversize. Scraper Compression Ring — .030" Oversize. Oil Ring — .010" Oversize. Oil Ring — .020" Oversize. Oil Ring — .030" Oversize. Pulley Clutch Housing.	.10 .25 .25 .25 .35 .35 .35
29835 29836	Magneto Flywheel		61944 62007 62498 62534 62536	Cylinder Head 2 for Gas Tank Clips 2 for Blower Housing Valve Spring Retainer 2 for Return Spring Cup	1.15 .05 1.00 .05
29847 29848 29849 29851 29853	Cylinder Cylinder Assembly Cylinder Assembly Throttle Lever Starter Clutch and Pulley Includes: 26032 Spring	14.75 17.00 .65	62538 62546 62577 62599 62600	Clutch Retainer Plate Valve Cover Flywheel Washer Spark Plug Wrench Starter Pedal Stop NOTE: No. 99247 used on type No. 95486.	.05 .10 .10 .10 .25
	61781 Housing 62538 Washer 63770 Ball 63794 Pinion 91758 Screw		62628 62631 62651	Choke Retainer Washer	.05 .45
29858 29859 29864 29865	Gasoline Line — 21" long. Gasoline Tank Gas Line Connector. Gasoline Tank Includes: 29825 Gas Tank 65294 Gas Pipe Washer 69221 Tank Cap 69243 Gas Pipe NOTE: No. 29870 used on type No. 95471.	.25	62693 62702 62703 62853 62893 62896 62904 62943 63058	Rope Starter Pulley (notched). Choke Valve Washer Oil Spray Shield. Cylinder Shield Throttle Link Speed Adjuster Base Plate Carrying Handle Gas Line Connector. NOTE: No. 29864 used on type No. 95506.	.45 .05 .10 .15 .05 .05 .40 .15
29869 29870	Choke Rod — 11%" long	.15 1.75	63770 63771 63772 63773 63782 63783	Steel Clutch Ball	.05 .10 .10 .20
29875 29876 29878 29879 29880 29881 29882	69243 Gas Pipe Carburetor Body Choke Rod — 15" long Starter Rope Starter Pedal — Gooseneck Starter Pedal — right hand offset Starter Pedal — left hand offset	3.25 1.25	63785 63787 63788 63794 63807 63810	Cam Shaft Valve Spring Retainer Pin. Valve Tappet Starter Pinion Exhaust Valve Needle Valve NOTE: No. 63844 used on type No. 95506.	.30 .05 .25 .65 .75
29885	Starter Clutch and Pulley		63816 63821 63844 63854 64409 64419 65294 65534	Piston Pin — .005" Oversize \$\frac{1}{16}\text{"}\$ Allen Set Screw Wrench Needle Valve Throttle Set Screw Gas Line — 23" long Gas Line — 9" long Gas Pipe Washer Filler Cap Gasket	.30 .20 .20 .05 .30 .25 .05
29887 29909 29913 37346 38852 61700 61703 61732	Gasoline Line — 16" long. Choke Rod — 9¼" long. Drive Pulley — magneto side. Rivet—⅓x¼—Tubular	.25 .15 .50 .05 .05 .60 2.25	65704 65725 65787 65905 65915 66432 67307	Contact Point Plunger Armature Lead Insulator. Fibre Connector Gasket 2 for Magneto Ground Wire—45" long. Magneto Ground Wire—49½" long. Washer Magneto Plate Gasket. NOTE: No. 67597 — .005" thick. No. 67607 — .009" thick.	.15 .05 .05 .25 .25 .05
61735 61738 61755 61756	Oil Filler Cap Choke Valve Exhaust Hose Fitting Scraper Compression Ring — Standard NOTE: For Oversizes, see Nos. 61768 — .010", 61769 — .020", and 61770 — .030".	.15 .15 .50 .25	67527 67537 67547 67597 67607 67617 68122	Valve Cover Gasket. Cylinder Head Gasket. Base Gasket Magneto Plate Gasket — .005" thick. Magneto Plate Gasket — .009" thick. Needle Valve Packing. Cam Shaft Plug.	.05 .10 .05 .05 .05 .05
61757	Oil Ring — Standard	.35	68287 68467 69221	Air Cleaner Gasket	.10 .05 .15

69243 69326 69335	Gas Pipe Gas Line — 22" long. Gasoline Line — 19" long. NOTE: For other lengths, specify: No. 29243 — 10" long. No. 29411 — 13" long. No. 29544 — 27" long. No. 29826 — 25½" long. No. 29858 — 21" long. No. 29887 — 16" long. No. 64409 — 23" long. No. 64419 — 9½" long. No. 69326 — 22" long. No. 69358 — 30" long. No. 69358 — 30" long. No. 99095 — 20" long.	.45 .30 .30	91707 91708 91711 91741 91752 91758 91790 91810 91811 91849 99082 99096 99101	Screw Flywheel Nut Cylinder Head Screw NOTE: No. 91203 used on type No. 95506. Cap Screw Screw—5—40x½" Fill. Hd. 2 for Set Screw—½" Holl. Hd. Air Cleaner Wing Nut. Muffler Elbow Muffler Elbow Locknut. Connecting Rod Bolt. Starter Pedal Gas Line—20" long. Starter Pedal Assembly Starter Pedal Assembly	.05 .05 .05 .05 .10 .05 .40 .05 .05 .30 3.25 3.25
69358 69817	Gasoline Line — 30" long	.50 .20	99106 99193	Air Cleaner Elbow	.50 .75
90066	Screw—8—32x1/4" Rd. Hd	.05 .05	99246	Starter Pedal AssemblyFoot Lever Stop	3.25 .30
90067 902 0 2	Screw— $8-32x\frac{5}{16}$ Rd. Hd 2 for Screw— $10-32x\frac{1}{2}$ Fill. Hd	.05	99247 99277	Connecting Rod	1.00
90364	Lockwasher— $\frac{11}{64}$ x $\frac{64}{64}$ x $\frac{32}{32}$ "	.05	99278	Governor Blade Assembly	.50
90528	Screw—1/4x28x3/4" Hex. Hd	.05	99282	Magneto Assembly	9.00
90699	Lockwasher— $\frac{1}{4}x\frac{5}{64}x\frac{1}{16}$ "	.05		NOTE: No. 99304 used on type No. 95501.	
90950	Cap Screw	.05		No. 99323 used on type No. 95466.	
91070	Lockwasher—No. 8 Shakeproof	.05 .05	99288	Ignition Cable	.15
91195 91199	Lockwasher	.05	99304	Magneto Assembly No GEOOF 45"	9.25
91203	Cylinder Head Screw	.10		NOTE: Same as No. 99282, with No. 65905 — 45" Ground Wire included.	
91324	Washer—1/4" Standard	.05			9,25
91359	Screw-10-32x34" Fill. Hd	.05	99323	Magneto Assembly	3,23
91398 91688	Screw—1/4x28x1/2" Hex. Hd	.05 .05		Ground Wire included.	

IMPORTANT

IMPORTANT

OS. A.E. No. 20 ENTLY

ALVACE No. 20 ENTLY

CHANGE OIL RECULARLY

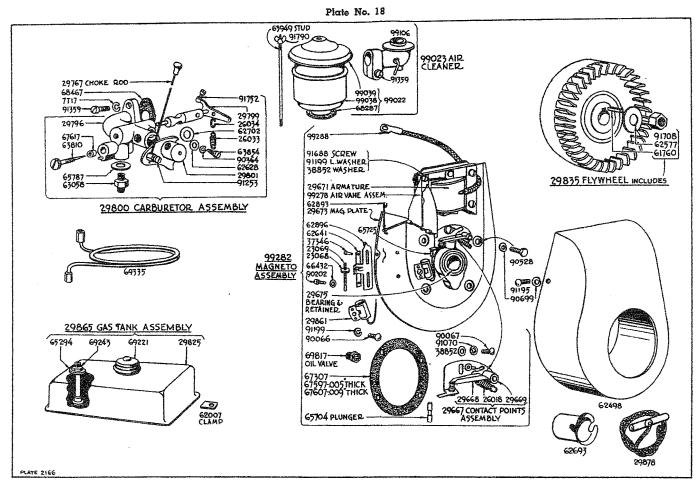
CHANGE OIL RECULARLY

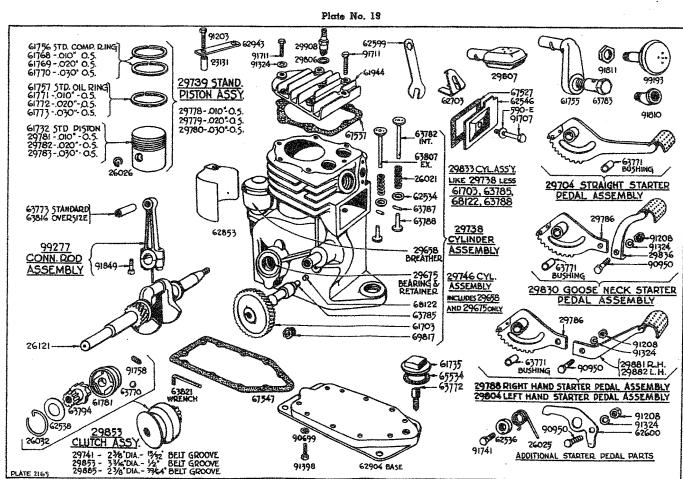
THE GUARANTEE—For One Year from purchase date, Briggs & Stratton Corporation will replace for the original purchaser, FREE OF CHARGE, any part or parts found, upon examination at our factory at Milwaukee, Wisconsin, or at any Authorized Central Service Distributor's place of business, to be defective under normal use and service, on account of defects in material or workmanship.

All transportation charges on part or parts submitted for replacement under this guarantee must be borne by purchaser.

WHAT THIS GUARANTEE DOES NOT INCLUDE — This guaranty does not cover the free replacement of parts inoperative because of wear occasioned by use. It does not cover the labor cost of replacing parts, neither is it effective if the motor has been the subject of misuse, negligence or accident, nor if it has been repaired or altered outside of our Milwaukee Factory or any Authorized Central Service Distributor in any way which, in our judgment, affects its condition or operation.

13





Nation-Wide Service Organization

To provide prompt and efficient service on Briggs & Stration 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 guarantee is the responsibility of the Authorized Service Organization until all the material involved and supporting facts are submitted to and approved by the factory.

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 experience 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.

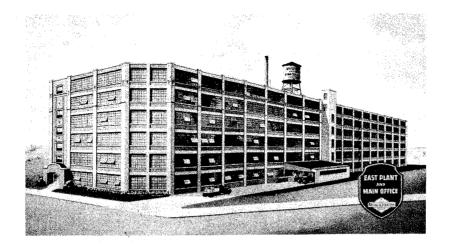
Authorized Central Service Distributors

STATE	CITY	NAME	LOCATION
		Birmingham Electric Battery Co	
Alabama	Phoenix	Motor Supply Co	Ave. B. at 23rd St.
California	Ing Species	Electric Equipment Company	313 N. Central Ave.
California	Son Francisco		1011 D. NODO DI,
Colorado	Danvar	Spitzer Electrical Company	JOU VOIL NESS AVE.
Florida	Inchenville		AG NV Dames C
Florida	Miemi	Electrical Equipment Co	40 W. Dedver Di.
Florida	Tompo	Spencer Auto Electric, Inc	COTILE Care
Georgia	Atlanta		477 Coming Ct W 187
Idaha	Boise	Bevens & Company	112 W 12th St
Illinois	Chicago	Mid-States Auto Electric Co	2446 Indiana Buo
Indiana	Indianapolis	Gulling Auto Electric Co	ASO W Capital Ave.
lowa	Des Moines	Magneto Carburetor & Electric Co., Inc.	1308 Grand Ava
Konsos	Wichita	The E. S. Cowie Electric Co	230 S. Topeka Ave
Kentucky	Lexington	Kentucky Ignition Co., Incorporated	Bose and Vine Sts
Louisiana	New Orleans	Suhren, Inc.	1319 St. Charles Ave.
Louisiana	Shreveport	Chain Battery & Automotive Supply, Inc.	Marshall at Cotion Sts.
Massachusetts	Boston		48-52 Cummington St.
Michigan	Detroit	Auto Electric & Service Corporation	90 Selden Ave.
		Reinhard Brothers Co., Inc	
Missouri	Kansas City	The E. S. Cowie Electric Co	1819 Wyandotte St.
Missouri	St. Louis,	Medart Auto Electric Co., Inc	3134 Washington Blvd.
Nebraska	Lincoln	Carl A. Anderson, Inc	1637 P Street
Nebraska	Omaha	Carl A. Anderson, Inc	16th and Jones St.
New York	Buffalo	The Battery & Starter Co., Inc	681 Main St.
		The Durham Co., Inc	
		The Durham Co., Inc	
		Carolina Rim & Wheel Co	
Norm Dakota	rargo	Reinhard Bros., Inc.	ius noberts bt.
		Tracey & Co., Inc.	
		Auto Equipment & Service Co., Inc	
		Pitt Auto Electric Company	
		Reinhard Brothers Co., Inc.	
		R. T. Clepp Company	
		The E. S. Cowie Electric Co	
		Beard & Stone Electric Co., Inc.	
		Motor Supply Co	
		Beard & Stone Electric Company, Inc.	
		S. X. Callahan	
		Motor Equipment Company	
		Sunset Electric Co	
Wisconsin	Milwaukee	Wisconsin Magneto Co	918 N. Broadway

DOMINION OF CANADA

Manitoba	Winnipeg	Beattle Auto E	lectric Limited	176 Fort St.
Ontario	Toronto-5	Auto Electric S	service Company	Limited 15 Breadalbane St.

BRIGGS & STRATTON CORP. MILWAUKEE, WIS., U. S. A.



WHERE BRIGGS AND STRATTON MOTORS ARE MADE

THESE 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.

