IMPORTANT

ALWAYS USE OIL

ALWAYS USE OIL

GOOD, E. NO. 20

S. A. E. NO. 10W

FOR TEMPERATURE, NO. UENTLY

ADD OIL REGULARLY

CHANGE OIL REGULARLY

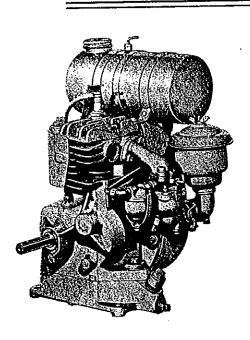
Operating Instructions

Adjustment and Repair Information • Parts List

# MODELS

"N"—"NP"—"NR"
TYPE NUMBERS FROM 205000 TO 205499





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

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

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

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

DO NOT START THIS MOTOR UNTIL YOU HAVE READ CAREFULLY THE "STARTING AND OPERATING INSTRUCTIONS" ON PAGE 2



# IMPORTANT SAFETY INFORMATION AND

# **INSTRUCTIONS FOR ENGINE SELECTION ENGINE INSTALLATION ENGINE OPERATION**

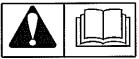
In the USA and Canada, our 24 hour hoiline is:

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.

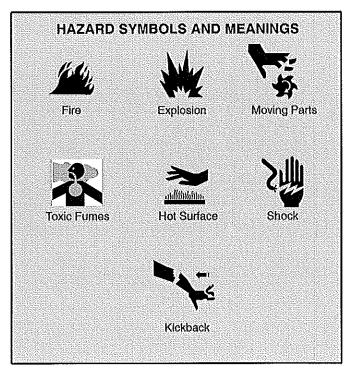


WARNING indicates a hazard which, if not avoided, could result in death or serious injury.



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.



(OVER)

### **ENGINE SELECTION**



 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

[5]

[6]

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

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.

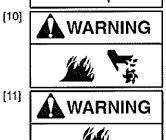
[8] WARNING

[9]

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.

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.



# WARNING When starting engine:

Remove all external equipment/engine loads.

Wait until spilled fuel is evaporated. Start engine outdoors.

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

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





#### When operating equipment:

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

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

Do not choke carburetor to stop engine.

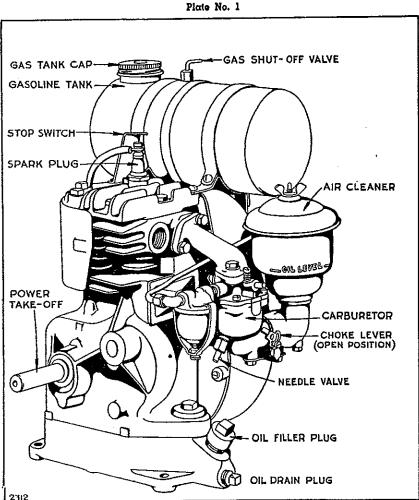
# Starting and Operating Instructions

Paragraph	Paragraph
Before Starting the Motor	How to Stop

- 1. BEFORE STARTING THE MOTOR. Fill the crankcase with Mobileil "Arctic" or any other high grade oil not heavier than S. A. E. No. 28 for operating motor in temperatures of 32° F. and above. For temperatures below 32° F. use Mobiloil No. 10 W or other high grade oil not heavier than S. A. E. No. 10 W.
- A HEAVIER OIL MUST NOT BE USED. The oil filler plug is painted blue and is located on top of motor base. With the motor level remove filler plug and pour oil in opening until it rises to the level of the filler plug opening. Crankcase holds l pint. Fill air cleaner with oil of the same viscosity as used in the crankcase to the indicated oil level. See paragraph 57. Fill the gas tank with a good grade of clean, fresh gasoline. Tank holds two quarts. Do not mix oil and gasoline. See paragraphs
- 2. HOW TO START. Open gas shut-off valve on top of gasoline tank, turn valve to left. Completely close carburetor choke by turning lever in a clockwise direction.
- (A) ROPE STARTER. Wind the starting rope clockwise around the starter pulley, with knot in the pulley notch. Pull the rope with a quick steady pull to spin the magneto flywheel and prime the motor. After motor has been primed, open choke about half-

way to start. As motor warms up, gradually open choke valve until motor operates smoothly with the choke wide open. Operate the choke the same as you would on an automobile. (A warm motor does not require as much choking as a cold motor.) See paragraph 21.

- (B) FOOT OR HAND LEVER STARTER. Step down on pedal or pull hand lever quickly with choke closed to prime the motor. Then operate choke as in paragraph 2A.
- 3. FAILURE OF MOTOR TO START. COLD WEATHER causes the oil in crankcase to become thick and the gasoline less volatile. Should you experience trouble in starting, we suggest that you give your motor a little extra priming. Also be sure that the spark plug points are clean and the gap set at .025". See plate No. 5. 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 3.
- 4. HOW TO STOP. Press the stop switch mounted on the cylinder head against the end of the spark plug. Hold it until motor stops firing. This will ground the spark. To stop models equipped with ignition shielding, push the red stop pin, located on the blower case below gasoline tank.



# Servicing Reference Chart

MOTOR FAILS TO START	MOTOR OVERHEATS
Paragrap	
Out of Gasoline	8 Out of Oil13-54-55
Out of Oil1-13-54-5	5 Oil Needs Changing 14-15
Dirt or Gum in Fuel System16 to 1	
•	Carburetor Out of Adjustment
Corburetor Out of Adjustment22 to 2	
Spark Plug Dirty	Carbon 56
4 1.1 m 24 m	Muffler Clogged 58
Magneto33 to 4	" Overtooded
	· · · · · · · · · · · · · · · · · · ·
Poor Compression	MOTOR EACKS FOWER
Air Cleaner Clogged	7 Lack of Oil1-13-54-55
	Add or Change Oil13 to 15
MOTOR STOPS	Corburelor Out of Adjustment
Out of Gasoline 1-1	Motor Not Up to Speed22 to 28
Out of Oil	Poor Spark
Dirt or Gum in Fuel System	Poor Compression42 to 51
Motor Overheated	2m Oleaner Ologgen 57
Air Cleaner Clogged	7 Muffler Clogged 58
Motor Overloaded 5	9 Overloaded

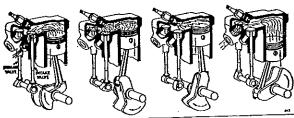
# Instructions for Adjustment and Repair

Paragra	aph	Paragra	aph
Operating Requirements	8	To Remove and Replace Magneto Assembly	
How a 4-Cycle Motor Operates	10 .	Magneto Timing	36
Keep the Motor Clean	11	To Adjust and Clean Contact Points	37
Use the Right Kind of Oil	12	To Replace Condenser	38
Add Oil Regularly	13	To Replace and Adjust Armature	40
Change Oil Frequently	14	Cylinder Head	42
Use Clean Gasoline	16	Compression	43
Avoid Gummy Gasoline	17	Yalve Adjustment	44
To Clean the Fuel Lines	19	Crankshaft	48
Correct Use of the Choke	20	Piston	49
To Prime the Motor	21	Piston Rings	51
To Adjust the Carburetor	22	Piston Pin	52
To Remove and Replace Carburetor	25	Connecting Rod	53
To Clean Carburetor	24	Oil Pumps	54
Governor—Correct Motor Speed	27	Oil Leaks	55
Governor Speed Adjustment	20	Carbon	56
The Ignition System	20	Air Cleaner	57
The Ignition System	29	Muffler	58
To Check for Spark	30	Overload	59
Spark Plug Adjustment	31	Starter Pedal	60
Ignition Cable	32	Starter Clutch	60
To Remove and Replace Flywheel	33	Parts	42

- 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.
- 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 recommended grades. The following instructions fully explain the simple adjustments and offer operating recommendations that will assure you of 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.

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



POWER STROKE

INTAKE STROKE

COMPRESSION STROKE

EXHAUST STROKE

- 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 the flywheel housing or between cylinder fins.
- 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 for operating motor in temperature of 32° F. and above. For temperatures below 32° F. use Mobiloil "Arctic Special" or other high grade oil not heavier than S.A.E. No. 10W. 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 which forces a stream of oil to all moving parts of the motor. 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 yellow oil drain plug, located at either end of motor base, and let the oil flow into a pan or other receptacle you use. 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. If the oil is not changed regularly these foreign particles cause

- increased friction and a grinding action which shortens the life of the motor. Sludge, a gummy mass, forms which clogs up the oil passages. 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 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. See paragraph 18.
- 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, 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. Close the gas shut-off valve on top of gas tank, turn valve to right. Disconnect gas line at gas filter and also at the gas tank. Blow through the gas line to alear it. To clean the gas filter, loosen thumb screw below gas filter bowl. Remove and clean filter bowl and screen. Blow through the gas passage in the cover. Open shut-off valve to see if gasoline flows freely from the tank. IMPORTANT: If you find a gummy, varnish-like substance use alcohol or acetone to dissolve it. See paragraphs 17 and 18.
- 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 α 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 falls to start after cranking three or four times with the choke 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 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 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 26. If motor will not fire at all, check the ignition system, see paragraphs 29 to 41, also compression, paragraphs 42 to 51.
- 22: TO ADJUST THE CARBURETOR. The carburetor on this motor is of the gravity type. The gasoline supply is regulated by a needle valve. The throttle is automatically controlled by the governor, see paragraphs 27 and 28.
- 23. To adjust the carburetor, completely close needle valve by turning to right or clockwise as far as possible. Do not screw up

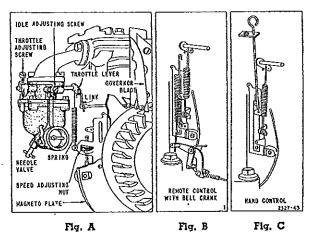
too tight or use force when closing needle valve, or needle valve may be damaged. From closed position, open needle valve one-half to three-quarter turn. After the motor has been started and warmed up make final adjustment with the choke wide open by turning the needle valve to the point at which motor 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. For governor adjustments see paragraphs 27 and 28.

23A. The idle adjustment screw setting is about a half to three quarters of a turn open. Do not force screw against seat or you will damage both. See plate No. 3, Fig. A.

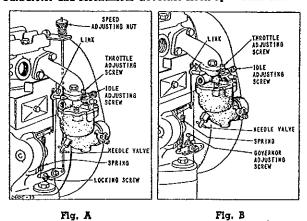
24. The throttle lever adjusting screw is set at the factory to permit an idling speed of about 1600 R.P.M. We do not recommend adjusting the throttle to bring the speed lower. If you want to idle the motor at a higher speed than 1600 R.P.M. turn the throttle lever adjusting screw to the right or in a clockwise direction.

25. TO REMOVE AND REPLACE CARBURETOR. Close shut-off valve on top of gas tank, disconnect gasoline line from gas filter. Remove air-cleaner and elbow, unhook throttle and control return spring, loosen carburetor and unhook throttle link. To replace, reverse the operations as performed above.

#### Carburetor and Air Vane Governor Hook-Up -- Plate No. 3

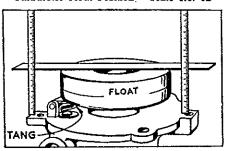


#### Carburetor and Mechanical Governor Hook-Up -- Plate No. 3A



26. TO CLEAN CARBURETOR. Remove it from the motor as explained in the previous paragraph. Remove gas line connector elbow. To disassemble carburetor, FIRST remove needle valve, stuffing box nut, packing nut gland and nozzle. Then remove

#### Carburetor Float Position - Plate No. 3B



screws and lockwashers from the upper carburetor body. CAU-TION: The upper and lower bodies are interlocked by the nozzle and failure to disassemble in above order will result in damaged parts. To check inlet valve and seat, pull out brass pin holding carburetor float. A worn or dirty inlet valve and seat or incorrect float level will cause carburetor to leak. In reassembling, float should be in a horizontal position when it closes inlet valve and seat. To check float, invert upper carburetor body and place a scale or a flat straight piece of steel across carburetor float and see that distance from top of float to carburetor body flange is equal at both sides of float. See plate No. 3B. The float hinge tang can be bent to attain proper position of float, If any parts are gummy, clean them in alcohol or acetone. Blow through all passages and openings. Do not use wire to clean out small holes. Replace worn or damaged parts.

27. GOVERNOR — CORRECT MOTOR SPEED. The speed of this motor is automatically maintained under varying loads by a built-in governor. It was carefully adjusted at the factory and should not be re-adjusted unless absolutely necessary. Recommended operating speed is 2600 to 3600 R.P.M. As different types of equipment require various operating speeds for the greatest efficiency, it is suggested that you follow the recommendations of the manufacturer of the complete unit which the motor powers.

28. GOVERNOR SPEED ADJUSTMENT. Two distinctly different types of governors are used on different types of motors:

- Air vane governor, which operates by the air current blown by the flywheel. (See plate No. 3.)
- Mechanical governor, which is built into crankcase and is gear driven off of cam gear. (See plate No. 3A.)

To adjust, proceed as follows:

#### (a) Air Vane Type:

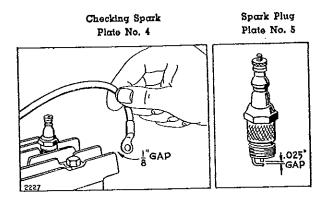
- Fixed Speed Control. (See plate No. 3, Fig. A.) A speed adjuster is located beneath carburetor on magneto plate. To increase motor speed turn speed adjusting thumb nut down. To decrease speed turn thumb nut up.
- Manual Speed Control. (See plate No. 3, Fig. B.) To increase motor speed pull lever so that swivel moves away from control lever boss. To decrease speed push lever so that swivel moves toward control lever boss.

Some models are equipped with a hand governor control. To increase motor speed pull up on knob, to decrease speed push knob down. See insert in plate No. 3, Fig. C.

(b) Mechanical Type. Two types of speed adjustment devices are used:

- Speed adjustment nut located on end of control rod which extends above cylinder. (See plate No. 3A, Fig. A.) To increase speed, turn speed adjustment nut down. To reduce speed, turn speed adjustment nut up.
- Speed adjustment screw located below carburetor. (See plate 3A, Fig. B.) To increase speed, loosen lock nut and turn governor adjusting screw down. To reduce speed, turn screw up. Tighten lock nut.

- 29. THE IGNITION SYSTEM. The spark is produced by a high tension magneto consisting of armature, condenser, contact points and rotating magnets cast in a 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.
- 30. 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. 4. (To check spark plug see paragraph 31.) If no spark, check cable, see paragraph 32, and refer to magneto adjustments paragraphs 33 to 41.

- 31. SPARK PLUG ADJUSTMENT. Spark plugs should be cleaned and points reset to .025" after each 100 hours of operation. See plate No. 5. 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 thing. The spark plug can be cleaned by washing off the carbon with gasoline or kitchen scouring powder. Points should be scraped or sand-papered. See plate No. 5. Always keep a new plug on hand. We recommend the use of Champion No. 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.
- 32. 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. 9.
- 33. 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 spring washer, or a threaded clutch housing and locking plate.
- 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 Fig. 1, Plate No. 6. 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 re-

- moved, 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 die cast clutch housing and starter pinion on side toward 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 Fig. 2, Plate No. 6.

  On models with cast iron clutch housing and starter pinion away from motor, remove starter assembly and blower housing. Bend locking tang out of clutch housing recess with screw driver. To remove clutch housing tap to right with a punch and hammer; then proceed to remove flywheel as in "A." See Fig. 3, Plate No. 6.
- 34. 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 or clutch housing very tight by tapping with hammer.

#### Removing Flywheel Plate No. 6

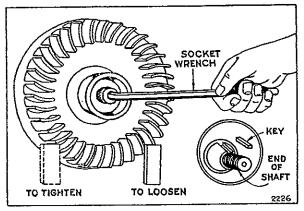


Fig. 1

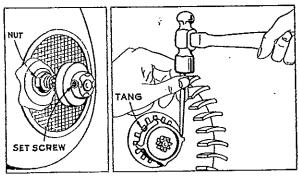
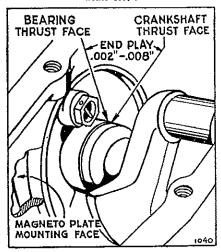


Fig. 2 Fig. 3

35. TO REMOVE AND REPLACE MAGNETO ASSEMBLY. After removing the flywheel as explained in paragraph 33, remove magneto point dust cover. If carburetor has not been removed, it is not necessary to do so. Remove governor air vane from armature. Unhook governor spring from speed adjusting slide plate. Detach ignition cable from spark plug. Remove four magneto plate mounting screws. To replace, use same gasket between plate and crankcase, or if damaged, a new gasket, see part number 67307, 67597, 67607 for proper thickness to get correct end play of .002" to .008" between magneto bearing and crankshaft thrust faces, as shown in plate No. 7. Use lockwashers under mounting screws.

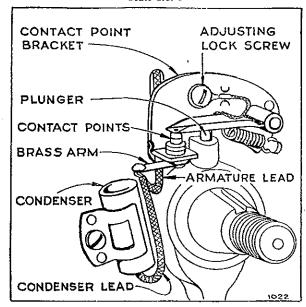
36. MAGNETO TIMING. The magneto assembly is always correctly timed with the motor when the flywheel is assembled to the tapered crankshaft with a key and securely held in place with left hand threaded nut or cast iron clutch housing. Do not attempt to change the timing by relocating any parts or filing 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. 7



37. TO ADJUST AND CLEAN CONTACT POINTS. Remove blower housing, flywheel and magneto point dust cover. 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 adjust-

Contact Points and Condenser
Plate No. 8



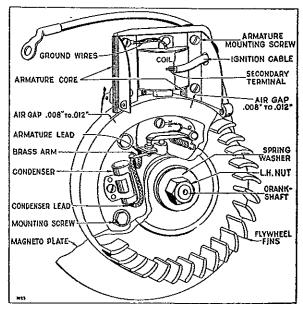
ing lock screw and moving contact point bracket up or down. When proper gap is obtained tighten lock screw securely. If either or both points become badly pitted or burned and need replacement, always order complete assembly Part No. 29667.

38. TO REPLACE CONDENSER. A leaky or weak condenser may cause the motor to start hard, to sputter or missire under

load. If motor misfires after checking gasoline line, carburetor, spark piug, cable and contact points, install a new concenser. Both the condenser lead and armature lead must be soldered to brass arm, see plate No. 8. Be sure to push condenser lead down between condenser and hub of magneto plate so it cannot rub against flywheel.

- 39. 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 Authorized Central Service Distributor listed on page 19.
- 40. 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. 8 and 9. Replace mounting screws, inserting loop of ground wires under screw and draw screws up tight.
- 41. 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 three 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. 9,
- 42. 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 aup grease. We do not recommend the use of sheliac on cylinder head gaskets.

Complete Magneto Assembly
Plate No. 9



Tighten each cap screw a little at a time so that the cylinder head is pulled down evenly. Screws need be only moderately tight.

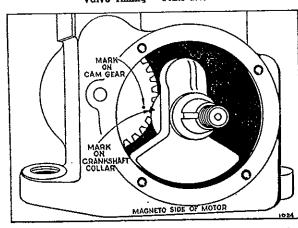
43. COMPRESSION. Proper compression is obtained when valves seat properly, gaskets do not leak, and piston and rings are properly fitted. When tuning up a motor, it is always well to

check compression. This is done by turning the motor over quickly by hand. If turned slowly sticky valves may not be detected. 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, it is possible that a worn piston or piston rings, 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.

44. VALVE ADJUSTMENT. To check valve clearance remove valve cover plate. The correct clearance on the exhaust valve is .015", and on the intake valve .008" when motor is cold. Tappet clearance is adjusted by grinding required amount from end of valve stem. End of stem must be square with stem proper.

45. To remove valves, remove cylinder head, and if not dismantled, drain oil from crankcase. Invert cylinder. Compress the spring with a screw driver and pull out valve retainer pin with

Valve Timing - Plate No. 10



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.

- 46. To resect valves, grind in the 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.
- 47. The timing of the valves is taken care of by the meshing of the cam shaft 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. See plate No. 10.
- 48. CRANKSHAFT. To remove crankshaft, FIRST remove magneto plate from motor and connecting rod from crankshaft. Then carefully slip crankshaft out toward magneto side of motor. To reassemble, reverse the operation.
- 49. PISTON. The piston in this motor is made of a special aluminum alloy which is very light in weight. The alectronice between the piston and cylinder wall is .0045" to .0065". The lands of the piston are smaller than the skirt to allow for greater expansion at the piston head. This alectronice is to compensate for the expansion of aluminum when hot. When piston is removed be sure to alean carbon from head of piston and ring grooves. The top groove of the piston does not have a piston ring. It is a "Heat Insulating Groove." If piston is out of round or scored it should be replaced.
- 50. If an oversize piston is necessary, we recommend that reboring of cylinder be done by an Authorized Central Service Distributor or the factory.

- 51. PISTON RINGS. The piston rings when titted in the cylinder should have a gap of .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 move in grooves freely.
- 52. PISTON PIN. The piston pin is a slip fit in the piston. To remove it from the piston, first remove lock rings, then slip pin out of piston.
- 53. 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 cam gear clearance flat must be toward the magneto side. See plate No. 11, Fig. 1. The assembly marks on cap and rod must be opposite clearance flat as shown in Fig. 1. It is equipped with locking plates. The tang of this plate must fit in slot and the plate bent against the hexagon head of the cap screws. See Fig. 2.

Connecting Rod — Plate No. 11
Fig. 1

CLEARANCE FLAT

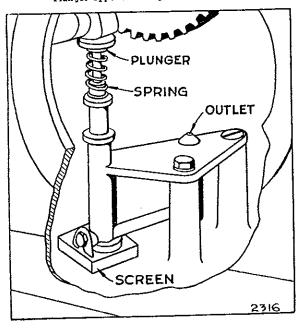
TANG
IN SLOT

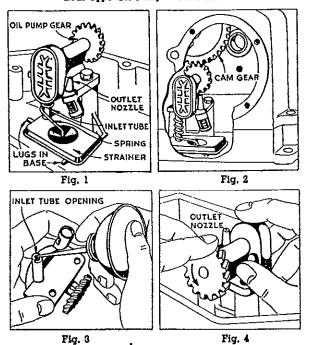
ASSEMBLING MARKS

LOCKING PLATES

- .54. OIL PUMPS. Oil pumps are of two types, "Plunger" and "Gear." Both types are assembled to the base. An inoperative pump will result in insufficient lubrication which may score the cylinder and piston assembly. Test pumps as follows:
- "A" Plunger Type. Remove from base. Place pump in a pan of oil about 1/2-inch 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.

Plunger Type Oli Pump - Plate No. 12





"B" Gear Type. (See Plate No. 12A.) Remove pump from base. Slip strainer and spring from inlet tube. Clean strainer in gasoline or kerosene to remove accumulated sludge and gum. To test the pump hold it with end of inlet tube submerged in oil and spin the gear with fingers in a counterclockwise direction. If oil is sprayed from outlet nozzle, the pump is in good working order. If it fails to function, submerge pump in kerosene for three or four hours to loosen any gum or sludge which may have accumulated inside the pump.

A pump that has been washed or scaked in kerosene must first be primed or lubricated before it is operated again so that it will start pumping the instant the gear begins to turn. This is done by running oil into inlet tube opening. A DRY pump will not function immediately. An inoperative pump must be replaced. CAUTION: Do NOT apply compressed air to this pump at any time nor should any attempt be made to disassemble it. When assembling pump to base be sure that strainer is resting on lugs in bottom of base and the hold down spring is in place. When assembling base to cylinder be sure that gear teeth of pump are properly meshed with cam gear teeth. See plate No. 12A, Figs. 1 to 4.

- 55. OIL LEAKS. If oil leaks from either end of crankshaft main bearings, remove base from motor. Oil return valves are screwed into crankcase and magneto back plate below main bearings. Remove oil return valve and clean or flush with gasoline and blow out any dirt ladged under the small disc. Replace if necessary. See plate No. 7.
- 58. 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 valves, valve ports, piston head, piston rings and ring grooves, cylinder head and top of cylinder bore.
- 57. 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. Clean the air cleaner occasionally

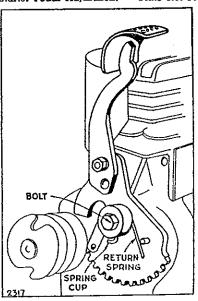
by removing it and washing in kerosene. Test it to see if it is clogged by blowing through it or noting if motor performs better with it off. If clogged it should be replaced. Keep the oil level up to the beading. See instructions on air cleaner label.

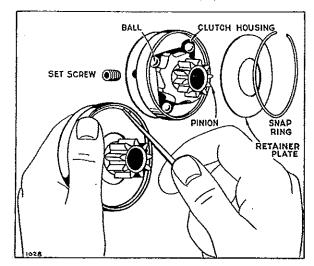
- 58. MUFFLER. After long periods of service it is possible that the muffler will become clogged to the point where it will affect the motor's power. To check the muffler unscrew it from the motor and run water into the open end of the muffler. If full streams of water come out of the small holes at 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.
- 59. 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.
- 60. STARTER PEDAL ADJUSTMENT. Should the starter pedal return spring, on motors with the starter on the power takeoff side, loosen or lose its tension, loosen the bolt which holds the return spring cup. See plate No. 13. 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.
- 61. 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 crank-shaft. 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. 14, as a precaution 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 Pedal Adjustment - Plate No. 13





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

# Repair Parts

Pararaph	Page
Always Give Type, Model and Serial Number 64 How to Make Out Parts Orders 66	How to Find Correct Part Number 11
How to Make Out Parts Orders 66	Parts List
	Parts Illustrations

- **63.** To assure continued satisfactory performance, do not attempt to use substitute repair parts when overhauling or repairing the Briggs & Stration Motor. Insist that all repair parts be original Briggs & Stration parts.
- 64. 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.
- 65. 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.
- 66. 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.

- 67. Give part numbers and name of parts wanted. (Do not use number cast on parts.) You will find the part numbers, names and prices on pages 11-16, and parts illustrations on pages 17-18.
- 68. After you have made out order, check back to see that you have followed all instructions and have accurately listed what you want.
- 69. 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.

Briggs & Stratton Gasoline Motors are precision built and require original Briggs & Stratton replacement parts in order to obtain satisfactory results. Service that is not reliable or continous becomes expensive at any price.

Users will find that the prices paid for **original** repair parts are well worth the investment when the service delivered is compared with that afforded by substitute parts. **Original** Briggs & Stratton repair parts can be obtained through all Authorized Central Service Distributors listed on page 19.

### 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 illustration. 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 List 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 paris or writing for service information always specify the MODEL LETTER TYPE NUMBER and SERIAL NUMBER of your motor.

### Parts List

MODELS "N" -- "NP" -- "NR"

MASTE	**	HPPING /EIGHT	MASTER PART	•	SHIPPING WEIGHT
NUMBE		bs. Oz.	NUMBER	NAME	Lbs. Oz.
21090	Note: No. 21458 Plate—Generator End. Used on type No. 205282.	1	22182 W	acket—Control Rod	1
21110 21129	Venturi—Carburetor	1 6 6	22217 Sh 22221 Co 22233 Plo 22238 W	over—Breather  nield—Oil Spray  over—Valve  ate—Spark Plug Shield Support  asher—Cylinder Mounting	1 6 1
	No. 90193 Screw — Machine, Fill, Hd. — 6-32x36"	1	22247 Bu 22252 W 22279 Br	asher—Cylinder Mounting ushing—Cylinder asher—Thrust (.065" Thick) ace—Air Cleaner Elbowace—Bell Crank	2 1
21174	Elbow—Air Cleaner	12 12	22353 W 22368 W	asher—Valve Cover  'asher—Control Lever  'asher—Thrust (.075" Thick)	1
21283	Ring—Piston, Compression, Top—Standard	1	<b>22508</b> Bu <b>22520</b> Cu	ıshing—Gear Case up—Gear Case	2
21362	Head—Cylinder	2 2	22725 W 22834 W	op—Speed Adjusting	1
	No. 21400 Head—Cylinder Used on type Nos. 205105, 205161, 205166, 205182, 205183, 205306, 205314.		23068 No 23069 Sc	ushing—Intermediate Gear ut—Speed Adjusting zew—Speed Adjusting pacer—Foot Pedal Support	1
21376	Ring — Pision, Compression, Top — .010" O.S	1		nion—Starterote: No. 63794 Pinion—Starter	
21377	Ring — Piston, Compression, Top — .020" O.S	1		Used on type Nos. 205082, 20508 205108, 205125, 205269,	34,
21378 21453	Ring — Piston, Compression, Top — .030" O.S Lever—Hand Starter Note: No. 21373 Lever—Hand Starter Used on engines before Serial No. 23482 replaced by No. 89600	1	23114 Pi 23125 Pi 23184 Re	pacer—Foot Pedal Support in—Float Hinge in—Throitle Stop stainer—Valve Spring in—Valve Spring Retainer	1
21737	Starter Assembly. Elbow—Air Cleaner	12 6	23222 No 23227 No	ozzle—Carburetor ut—Needle Valve Packing	1
21752 22031 22032 22036	Elbow—Carburetor Intake  Lock—Clutch Housing  Washer—Needle Valve Packing  Valve—Throitle	2 1 1	<b>23230</b> Bu <b>23250</b> St	alve—Idle Adjustingushing—Throttle Shafttud—Starter Mountingcrew—Choke Lever	1
22050 22062 22082	Valve—Choke	1	23277 Ke 23292 Bo	ey—Drive Pulleyolt—Air Cleanerote: No. 23334 Stud—Air Cleaner	1 2
22084 22125	Brace—Air Cleaner Elbow  Brace—Air Cleaner Elbow	1		No. 90355 Nut—Hex.—10-32 (See following page)	1

MASTE	••	PPING EIGHT	MASTEI PART	R .	SHIPPING WEIGHT
PART NUMBE		s. Oz.	NUMBE	R NAME	Lbs. Oz.
MOMPE	No. 92290 Lockwasher - No. 10x-	-,		205143, 205145, 205146,	205154,
	16%84"	1		205156, 205162, 205186,	205190.
	Used on type Nos. 205062, 205063,			No. 26353 Crankshaft	
	205071, 205104, 205111, 205164,			Used on type Nos. 205065 205117, 205170, 205258.	
	205275.  No. 23711 Stud—Air Cleaner	3		No. 26357 Crankshaft	
	No. 92290 Lockwasher-No. 10x-	-		Used on type No. 205054.	
	16×64"	1		No. 26359 Crankshaft	3
	No. 90355 Nut—Hex.—10-32	1		Used on type Nos. 205084	, 205108,
	Used on type No. 205291.			205125, 205269. No. 26362 Crankshaft	3
	No. 290039 Stud—Air Cleaner Used on type No. 205274.	4		Used on type Nos. 205092	
23329	Bushing—Starter Support	2		205182, 205282, 205306	
23386	Valve—Intake	2		205314, 205315.	
23388	Pinion—Starter	4		No. 26378 Crankshaft	
23443	Pin—Dowel	1		Used on type Nos. 205075 205079, 205088, 205105	
23444 23468	Stud—Valve Cover	î		205115, 205118, 205119	
23571	Swivel-Control Lever	1		205128, 205133, 205140	, 205147,
23580	Bushing—Control Lever	1		205150, 205152, 205153	, 205165,
23663	Valve—Exhaust	2 6		205169, 205180, 205181 205185, 205254.	, 203104,
23681 23692	Pinion—Drive	ĭ		No. 26382 Crankshaft	3
23729	Lever—Fuel Shut-off	3	•	Used on type Nos. 205086	
23911	BushingGear Cover	2 1		No. 26383 Crankshaft	
26021 26025	Spring—Intake Valve	1		Used on type Nos. 205094 205171, 205272, 205313	
26026	Lock—Piston Pin	1		No. 26492 Crankshaft	
26032	Spring—Clutch Relainer	1		Used on type Nos. 205192	
26048	Casing—Control Wire—38" long	8		No. 23158 Sleeve-	
	Note: If a longer casing is needed, spec- ify in inches; if a shorter casing			Uses:{ <b>No. 23666</b> Locknu <b>(No. 62980</b> Washer-	
	is needed order No. 26048 and			No. 26499 Crankshaft	
	cut to required length.			Used on type Nos. 205276	
26152	Spring—Pedal and Lever Return	1		205280, 205291.	
26157	Spring—Idler Valve and Throttle Adj	1 1	26374	Link—Throttle	
26172 26178	Spring—Pump Plunger Spring—Pedal Reiurn	î	26391	Link—Throttle	
26228	Spring—Choke Lever Return	1	26393 26404	Spring—Governor	
26229	Spring—Choke Lever	1	26478	Spring—Exhaust Valve	
26267	Spring—Control Wire Return	ì	26483	Spring-Stop Switch Push Rod.	1
	Note: No. 26358 Spring Control Wire	1	26485	Spring—Oil Pump	
	Return	1		Used on engines beginning	with type
	where spring is hooked through		27043	No. 205250. Gasket—Engine Base	1
	hole in magneto plate.	0	27045	Gasket—Intake Elbow Mounting	_
26269	Spring—Starter Pedal Return	2 1	27108	Washer-Starter Lever	
26330 26351	Spring—Breather Retainer	3	27110	Gasket-Gear Cover (.010" Thi	ck) l
	Note: No. 26316 Crankshaft	3	27111	Gasket-Gear Cover (.005" Thi	
	Used on type Nos. 205052, 205053,		27138	Gasket—Gear Case Cover	
	205085, 205101, 205107, 205124, 205168, 205172, 205175, 205177,		27139	Gasket—Gear Case Mounting. Gasket—Breather Body	
	205178, 205179, 205252, 205279,		27323 29226	Cup—Oil	
•	205294, 205308.	^	29667	Point Assembly-Contact	2
	No. 26324 Crankhsaft	3	29671	Armature-Magneto	2
	205059, 205062, 205071, 205077,		29693	Plug—Spark (with Gasket)	
	205081, 205083, 205089, 205098,		29806 29835	Gasket—Spark Plug	
	205102, 205104, 205110, 205116,		29861	Condenser	2
	205134, 205135, 205148, 205151, 205157, 205158, 205163, 205164,		29878	Rope—Starter	6
	205167, 205191, 205194, 205264,		38852	Washer—Armature Spring—Spark Plug Shield	
	205265, 205283, 205287, 205297,		46133 61703		
	205298, 205299, 205300, 205309, 205311.		61756	Ring—Pision, Compression, Cer	iter-Stomd-
	No. 26329 Crankshaft	3	даявя	ard	1
	Used on type Nos. 205064, 205067,		61757 61760		
	205078, 205095, 205136, 205159, 205193, 205257, 205273, 205284,		55,00	Note: No. 21103 Key-Flywhe	eel 1
	205288, 205296, 205304, 205318.			Used on type No. 20508	4,
	No. 26343 Crankshait	3	61768	Ring — Pision, Compression, .010" O.S	
	Used on type Nos. 205063, 205275. No. 26352 Crankshaft		61769		Center —
	Used on type Nos. 205057, 205058,			.020" O.S	1
	205061, 205072, 205073, 205080,		61770	Ring — Piston, Compression, .030 O.S	
	205082, 205096, 205097, 205122, 205129, 205130, 205132, 205137,		61771	Ring—Piston, Oil—.010" O.S	
	200129, 200100, 200102, 200107,			uttaur ten mess 11	

MASTI PART	7177	PPING	Masti Pari	[	SHIPPING WEIGHT
NUMB		s, Oz.	NUMBI		Lbs. Ox.
61772	Bing-Piston, Oil-,020" O.S	1	69221		
61773	Ring—Piston, Oil—.030" O.S	1		Note: No. 29860 Cap—Fuel Tank (Red Used on type No. 205137.	, 2
61947	Housing—Starter Clutch	10		No. 69961 Cap—Fuel Tank	2
	Note: No. 21100 Housing—Starter Clutch	14		Used on type Nos. 205090, 2050	)99,
	Used on type Nos. 205082, 205084, 205108, 205125, 205269.			205128, 205181, 205182, 205	
61967	Stop—Throttle	1		205192, 205269, 205273, 2053 205294, 205303, 205306.	soo,
62473	Shim—.005" thick	ı		No. 89988 Cap-Fuel Tank	2
62474	Shim010" thick	1		Used on type Nos. 205274, 205	291.
62536	Cup—Starter Return Spring	1	69345	Cap-Oil Filler	2
62538	Washer-Clutch Retainer	2	89002	Pulley Assembly—Automatic Drive.	2
62552	Bushing—Cylinder	2	89115 89127	Rod-Connecting	
62577	Washer-Flywheel	l I	00147	Note: No. 89706 Clutch Assembly	
	Note: No. 62903 Washer—Flywheel Used on engines with foot or hand	1		Starter	
	lever starters on magneto side.			Used on type No. 205177.	
62693	Pulley—Rope Starter	6		No. 89739 Clutch Assembly Starter	
62835	Cover—Dust	8		Used on type Nos, 205179, 205	
62842	Spacer—Dust Cover	1	89128	Pump Assembly—Oil (Plunger Type)	
62851	Strap—Fuel Tank	3 2		Used on engines before type	No.
	Note: No. 62965 Strap—Fuel Tank	L	89190	205250. Pipe—Fuel—13" long	3
	Used on type Nos. 205090, 205099, 205128, 205181, 205182, 205185,		00100	Note: For other lengths specify:	
	205273, 205285, 205288, 205294,			No. 69419 Pipe—Fuel—13" lor	ıg 3
	205303, 205306.	,		Used on type No. 205269. No. 89503 Pipe—Fuel—11 72"	long 3
62876	Screen—Fuel Filter	1 4		Used on type Nos. 205158, 205	179,
62891 62966	Wrench—Spark Plug and Filler Cap Switch—Stop	2		205279, 205287.	
63426	Locknut—Control Wire Casing	1		No. 89520 Pipe—Fuel—1234"	long 3
63770	Ball—Clutch	1		Used on type Nos. 205090, 205 205128, 205181, 205182, 205	1185.
63771	Bushing—Starter Sector	1		205190, 205192, 205273, 205	
63785	Shaft—Cam	3		205294, 205303, 205306.	,
63788	Tappet—Valve	1		The following Fuel Pipes Connections used to mount	
63965	Plunger—Oil Pump Plunger—Contact Point	î		99510 Combination Tank	
65704 65794		ī		type No. 205137:	
65968	Disc-Breather Valve	1		No. 89615 Valve—Shut-off.	
66111	Elbow—Fuel Pipe	1		No. 89226 Pipe — Fuel — 1	
	Note: No. 92291 Nut—Tubing No. 23572 Sleeve—Tubing	1		No. 99509 Pipe - Fuel -	41/2"
	Used with elbow on type No.	-		long ,	
	205318.			No. 99511 Tee No. 290160 PipeFuel9" lo	
66114	Washer—Cylinder Mounting	1 1		Used on type No. 205270.	3
66154 66164		î		No. 290161 Pipe—Fuel—13" 1	ong. 3
66432		_	20241	Used on type No. 205274.	6
	Fuel Tank Strap	1	89241 89274	Blade—Governor	
	Note: No. 67072 Washer — Fuel Tank	1	, , , , , , , , , , , , , , , , , , ,	Note: No. 89330 Shaft Assembly—	Orive 3 8
	Used on type Nos. 205090, 205099,	-		Used on type Nos. 205062, 20	5164,
	205128, 205181, 205182, 205185,			205297. No. 89441 Shaft Assembly—1	Drive 3 8
	205190, 205273, 205285, 205288,			Used on type Nos. 205096, 20	
67016	205292, 205294, 205303, 205306. Wire—Control—42" long	2		205098, 205104, 205129, 20	5130,
0,010	Note: If longer wire is needed, specify		0000	205134, 205135, 205146, 20	
	length in inches; if shorter wire		89280	Note: No. 89393 Cylinder	14
	is needed order No. 67016 and			Used on type Nos. 205055, 20	5056,
67307	cut to required length.  Gasket—Magneto Plate—.015" thick	1		205057, 205058, 205059, 20	
67527		1		205062, 205071, 205072, 20 205077, 205080, 205081, 20	
67537	Gasket—Cylinder Head	1		205083, 205089, 205096, 20	
67597	Gasket—Magneto Plate—.005" thick	1		205098, 205102, 205104, 20	5110,
67607		1		205116, 205122, 205129, 20 205132, 205134, 205135, 20	
68122		1		205132, 205134, 205135, 20 205143, 205145, 205146, 20	5148,
68477 68487		2		205151, 205154, 205156, 20	5157,
68507		ĩ		205158, 205162, 205163, 20	
68537		1		205167, 205186, 205190, 20 205194, 205264, 205265, 20	
68857	Gasket—Carburetor Body	I		205287, 205297, 205298, 20	
68877		1		205300, 205309, 205311.	
68887		1		No. 89401 Cylinder	
68893		1		Used on type Nos. 205063, 20 205065, 205066, 205067, 20	
68957 68987		î		(See following page)	•
5550			and the second second		

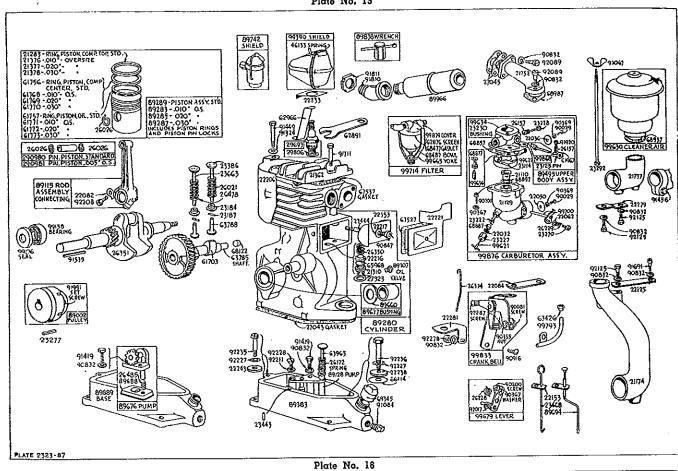
36400		un filia	35700	an	Altennista
MAST. PAR		ipping Eight	MAST PAR		SHIPPING WEIGHT
NUMB		s. Oz.	NUME		Lbs. Or.
	205084, 205086, 205092, 205094,			No. 89447 Housing-Blower	
	205095, 205108, 205117, 205125,			Used on type Nos. 205090, 2050	99,
	205136, 205141, 205144, 205159,			205128, 205149, 205174, 2051	
	205166, 205170, 205171, 205182, 205193, 205257, 205258, 205269,			205182, 205185, 205190, 2051	
	205272, 205273, 205275, 205282,			205198, 205273, 205285, 2052 205303, 205306.	74,
	205284, 205288, 205296, 205304,			No. 290167 Housing—Blower	2
	205306, 205310, 205313, 205314,			Used on type Nos. 205284, 2053	
	205315, 205317, 205318.		89495	Body Assembly-Upper Carburetor	. 4
	No. 89465 Cylinder	14		Note: No. 89735 Body Assembly—Upp	
	Used on type No. 205111.			Carburetor	
	No. 89913 Cylinder	14		Used on Engines before Serial 1 79294.	10.
	Used on type Nos. 205192, 205303. [No. 91648 Screw—Cap,		89600	Starter Assembly—Hand	3
	Includes: Hex. Hd.— $\frac{1}{18}$ -24x $\frac{1}{2}$ ".	1	89611	Sector Assembly—Starter	
	No. 91865 Lockwasher	i		Note: No. 89363 Sector Assembly	
	No. 89975 Cylinder	14		Used on engines with Hand Lev	er
	Used on type Nos. 205270, 205274,			Starters before Serial No. 234	
	205280, 205291.	_	89613		
89283	Piston Assembly—.010" O.S	8		Note: No. 89670 Cover Assembly—Ge Used on type Nos. 205062, 2051	or 38
89285	Piston Assembly—.020" O.S	8		205297.	7-1
89287 89289	Piston Assembly—.030" O.S	8	89615		3
89298	Gear—Intermediate	8 1	89660	Seal-Oil	
00200	Note: No. 89442 Gear—Intermediate	1		Used on engines after Serial No. 2000	
	Used on type Nos. 205096, 205097,	•		Note: No. 23495 Ring—Oil Retainer.	_
	205098, 205104, 205129, 205130,			Used on engines before Serial I	io.
	205134, 205135, 205146, 205190.		00070	20000.	8
89307	Valve—Oil Return	ì	89676	Pump—Oil (Gear Type)	
89363	Sector Assembly—Starter	14		No. 205250.	
	Note: No. 89611 Sector Assembly —	1.4	89677		3
	Starter No. 205177	14		Includes: No. 89660 Seal—Oil.	
89365	Used on type No. 205177. Starter Assembly—Foot	3		Used on engines after Serial No. 2000	_
89383	Base—Engine (Cast Iron)	6		Note: No. 89340 Bushing—Crankshaf	
	Note: No. 89362 Base—Engine (Cast Iron)			Includes: No. 23495 Ring—Oil 1 tainer.	16-
	Used on type Nos. 205055, 205067,	- ·		Used on engines before Serial 1	lo.
	205071, 205077, 205083, 205103,			20000.	
	205104, 205110, 205124, 205151,			No. 99158 Bearing—Ball	
	205167, No. 99402 Page Fraince/Cast Ivan	e		No. 99176 Seal—Oil	
	No. 89402 Base—Engine (Cast Iron) Used no type Nos. 205057, 205058,	0		Used on all engines with Bearing Drive Side Bearing :	
	205065, 205066, 205075, 205076,			otherwise listed in this note.	101
	205084, 205088, 205096, 205097,			No. 99440 Seal-Oil	6
	205106, 205117, 205128, 205133,			Used on type No. 205192, 2053	
	205137, 205140, 205145, 205150,		89694		
	205156, 205165, 205170, 205181, 205184, 205185, 205186, 205190.			Note: No. 29876 Rod Assembly—Chol	e. l
	No. 89407 Base—Engine (Cast Iron)	6		Used on type No. 205269.	1
	Used on type Nos. 205062, 205070,			No. 69452 Wire—Choke Used on type No. 205150.	••
	205081, 205091, 205095, 205109,		89688		1
	205111, 205113, 205116, 205120,			Used on engines beginning with ty	
	205126, 205127, 205135, 205136, 205148.			No. 205250.	•
	No. 89408 Base—Engine (Cast Iron)	6	89742	Shield—Spark Plug	
	Used on type Nos. 205061, 205072,		89838 89889	Wrench—Spark Plug	
	205073, 205079, 205080, 205086,		*****	Note: No. 89879 Base-Engine (Cast In	
	205108, 205115, 205130, 205132, 205143, 205146, 205147, 205152,			Used on type Nos. 205268, 2052	
	205169, 205193.			205287, 205292, 205300, 2053	12,
	No. 89409 Base—Engine (Cast Iron)	6		205317. <b>No. 89881</b> Base—Engine (Cast In	on) 6
	Used on type Nos. 205085, 205087,			Used on type Nos. 205254, 2052	
	205158, 205159, 205163, 205172,			No. 89885 Base—Engine (Cast In	
	205174, 205177, 205189.	^		Used on type No. 205277.	
	No. 89436 Base—Engine (Cast Iron) Used on type Nos. 205082, 205123,	D		No. 89887 Base—Engine (Cast Iro	on) 8
	205125, 205144, 205153, 205154.			Used on type No. 205309. No. 89891 Base—Engine (Cast In	on) 8
	No. 89451 Base—Engine (Cast Iron)	6		Used on type Nos. 205269, 2053	*
	Used on type Nos. 205105, 205118,		89966	Muffler	18
	205119, 205122, 205129, 205162,			Note: No. 89945 Muffler	
89386	205180.	a		Used on type Nos. 205273, 20528	
00000	Housing—Blower	2 2		No. 99866 Muffler	., . 0
	Used on type Nos. 205084, 205108,	_	89970	Case Assembly—Gear	12
	205125, 205269, 205270, 205274,		89976	Seal-Oil	8
	205319.		90029	Screw—Machine, Rd. Hd.—4-36x¼"	1
	Potens musi				

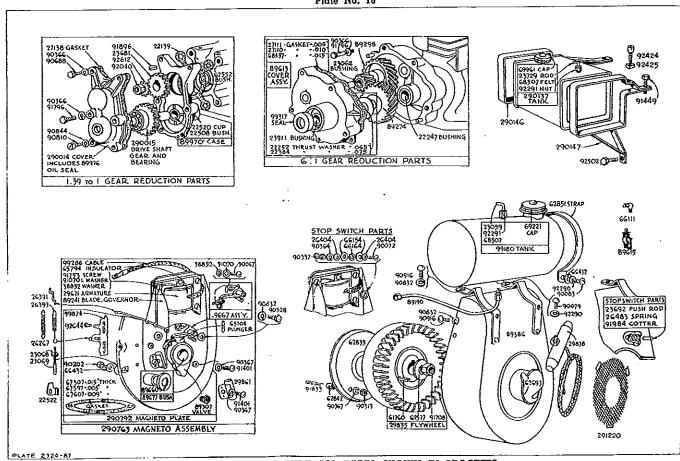
MASTE	P.A.	SHIPPING	MASTE		SHIPP	
PART		WEIGHT Lbs. Oz.	PART NUMBE		WEIG	_
NUMBE 90066	Screw—Machine, Rd. Hd.—8-32x¼"		1,01,101	No. 91812 Elbow—Muffler		3
90067 90072	Screw—Machine, Rd. Hd.—8-32x%" Screw—Machine, Rd. Hd.—8-32x%"	l 1		Used on type Nos. 205055, 20507 205111, 205163, 205274.		
90079	Screw-Machine, Rd. Hd10-32x3/8"	1	91811	Locknut—Muffler Elbow		2
	Note: No. 91366 Screw — Machine, R		91833 91896	Stud-Dust Cover		l l
	Hd.—10-32x%"		91901	Screw—Cap, Hex. Hd.—16-20x1 1/2"	•	ī
	Used on type Nos, 205090, 20509		91920	Screw-Machine, Fill. Hd.—8-32x56"	•	1
	205128, 205181, 205182, 20518		91984 91991	Pin—Cotter—1ex1/2"		1
	205190, 205192, 205273, 20528 205288, 205294, 205303, 20530		92017	Screw—Set	· • .	î
90081	Screw—Machine, Rd. Hd.—10-32x1/2"		92040	Nut-Jam		3
	Screw-Machine, Rd. Hd10-32x56".		92051	Nut-Castle-1v-20		l l
	Note: No. 90321 Nut-Square-10-32		92054 92067	Nut-Starter Pedal		ì
	Used with above Screw on tyr Nos. 205090, 205099, 20512		92089	Screw-Machine, Fill, Hd14-20x34"		1
	205181, 205182, 205185, 20519		92125	Screw—Cap, Hex. Hd.—1/4-20x1/2"		1
	205192, 205273, 205285, 20528	38,		Note: No. 91422 Screw—Cap. Hex. H — 1/4-20x5/8"	α.	1
00000	205294, 205303, 205306. Screw—Machine, Fill, Hd.—8-32x½"	1		Used on type Nos. 205062, 20516	4.	-
90200 90202	Screw—Machine, Fill. Hd.—10-32x1/2".	∷ î	92129	Nut—Hex.—1/4-28		1
90313	Nut—Hex.—8-32	1	92208	Screw—Connecting Rod		1 1
90337	Nut—Hex., Brass—8-32		92211 92227	Lockwasher (Shakeproof No. 1514) Lockwasher (Shakeproof No. 1120)		i
90355 90364	Nut—Hex.—10-32 Lockwasher—No. 8x24x32"		92228	Screw—Cap, Flat Head—14-20x38"	• •	1
90366	Lockwasher—rex/sxia"	1	92235	Screw—Cylinder Mounting		1
90367	Lockwasher—No. 8x5xx32"	l	92236 92278	Screw—Cylinder Mounting Nut—Hex.—1/4-20		î
90369 90528	Lockwasher—No. $4x_{3}^{2}x_{32}^{2}$ "		92285	Pin—Cotter—No, 18x¼"		1
90686	Screw Cap, Hex. Hd3/8-24x1"	1	92287	Screw-Machine, Rd. Hd.—10-32x1/4".	• •	1
	Note: No. 91541 Screw—Cap, Hex. H		92290 92291	Lockwasher—No. $10x_1 x_2 x_3 \dots$ Nut—Shut-off Valve, Packing		ì
	$-\frac{5}{16}$ x24x%"		92292	Nut—Hex.—%-24		1
	gines before Serial No. 23482			Note: No. 91208 Nut—Hex. 18-24		1
90688	Screw—Cap, Hex. Hd.—5-24x11/4"	1		Used on Hand Lever Starter e gines before Serial No. 23482		
90810 90832	Screw—Machine, Fill, Hd.—14-20x34". Lockwasher—14x32x54"	1	92305	Washer—Control Lever (16" Thick)		1
90844	Lockwasher—¼xiexie"	i, i	92306	Screw—Cap, Hex. Hd.—1/4-28x5/8"	••	1
90847	Nut—Hex.—14-28	1		No. 90802 Screw-Cap, Hex. H		
90849 90916	Pin—Cotter—32x3/4"	1		Note: \\\\ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		1 1
******	Note: No. 91691 Screw-Machine, F.			Used to mount control lever		-
	Hd.—¼-20x%"			lever base on type Nos. 20507		
	For Blower Housing on type N 205291.	10.	92424	205083, 205104, 205151.		1
90950	Screw—Cap, Hex. Hd.—16-24x3/4"	1	92425	Screw—Machine, Fill, Hd.—¼-20x1½" Nut—Square—¼-20		i
91070	Lockwasher (Shakeproof) No. 1208 Plug—Pipe—%"	1	92502	Screw-Cap, Hex. Hd 18-24x1 18"		1
91084	Note: No. 90878 Plug—Pipe, 1/4"		92612	Lockwasher (Shakeproof No. 1228)		1
	Used on engines equipped wa	ith	92644	Rivet—Tubular—Vex 16"		1
	bases which have ¼" pi threaded oil drain hole,	pe		Note: No. 62575 Spring—Speed Adjust Used on type No. 205063.	.01	•
91208	Nut—Hex.—15-24	1	92646	Pin-Cotter-1/2x11/2" long	• •	1
91237	Lockwasher-4x32x44"	1	99082	Pedal—Foot Starter		٥
91324 91401	Washer—¼" Standard Screw—Machine, Fill, Hd,—8-32x¼"		99158	Bearing—Ball	••	8 8
91413	Pin—Cotter—Vex1"	1		Used on type Nos. 205270, 20527		•
91419	Screw—Cap, Hex. Hd.—1/4-20x1/8"	1		205280.		D
91449 91456	Screw—Cap, Hex. Hd.—\frac{5}{6}-18x1\sqrt{s}" Screw—Cap, Hex. Hd.—\frac{1}{4}-20x1"		99176	Seal—Oil		6 6
91539	Key—ra" Sq	1		Used on type Nos. 205192, 20530		٧
91541	Screw—Cap, Hex. Hd.—15-24x%"	1	99180	Tank Assembly—Fuel	3	
91691 91708	ScrewMachine, Fill, Hd1/4-20x%". NutFlywheel Mounting			Note: No. 29034 Tank—Fuel (I Gallon)		
92.00	Note: No. 91900 Nut-Flywheel Mou			Used on type Nos. 205090, 20509 205128, 205181, 205182, 20518		
	ing	1		205190, 205192, 205269, 2052	/3,	
	Used on engines with foot or har lever starters on magneto side			205285, 205294, 205303, 20530		
91711	Screw—Cylinder Head (Short)	_		No. 89987 Tank—Fuel Used on type Nos. 205274, 20529	3 11.	
91741	Screw—Pedal Return Spring Cup	1		No. 99510 Tank—Combination Fu	el 3	
91753	Screw—Machine, Fill, Hd.—8-32x1/4"		****	Used on type No. 205137.		
91758 91796	Screw—Set, Sock. Hd.—fg-24x1/2" Screw—Cap, Hex. Hd.—fg-24x11/4"		99243 99272	Handle—Carrying  Clutch Assembly—Starter		
91808	Lockwasher— $\frac{7}{16}$ x $\frac{9}{12}$ x $\frac{1}{9}$ e"	1	22414	Note: No. 99615 Clutch Assembly	'	
91810	Elbow—Muffler	,,, 3		Starter	., 1	
	Note: No. 91523 Nipple—Exhaust	2		Used on type Nos. 205082, 20508 205108, 205125, 205269.	4,	
	Used on type No. 205269.		1 - 2 m - 2 d	estions ton nose 11		

MASTE PART		HPP VEIG		MASTER PART	;		PPING
NUMBE		bs.	_	NUMBER	NAME		. Oz.
99288	Cable—Ignition		2		No. 290062 Control Assembly -	_	
33400	Note: No. 89805 Cable—Ignition		3		Throttle		
	Used on type Nos. 205179, 205279.		•		Used on type No. 205269.		
	No. 99391 Cable—Ignition		3	290584 Base	-Control Lever (Stamped Steel)		2
	Used on type Nos. 205105, 205161,			Note:	No. 65631 Base—Control Lever		4
	205166, 205182, 205183, 205284,				Used on type Nos. 205071, 20508	3,	
	205306, 205310, 205314.				205104, 205151.		_
99306	Pedal & Sector—Foot Starter	1			-Control (Stamped Steel)		2
99307	Starter Assembly—Foot	3		•	olo Assembly		6
99317	Seal—Oil	3	6	Note:	No. 290764 Magneto Assembly		ő
99339 99390	Starter Assembly—Hand Lever	S	6		Used on type Nos. 205118, 20512 205129, 205134, 205135, 20513		
99621	Shield—Spark Piug		3		205150, 205155, 205165, 20516	8.	
99622	Float—Carburetor		2		205191, 205269, 205289, 20529		
99630	Cleaner Assembly—Air	1			205308, 205320.	•	
	Note: No. 89376 Cleaner Assembly-Air	1			(No. 42215 Connector.		1
	Used on type Nos. 205079, 205153.				Includes: No. 66104 Insulator		1
	No. 89980 Cleaner Assembly—Air	1			(No. 66205 Wire—Groun		1
	Used on type Nos. 205274, 205291.		,		No. 290765 Magneto Assembly.		ь
99632	Tooth Assembly—Spring		1 4		Used on type Nos. 205179, 20527		^
99634	Body—Upper Carburetor		ì		No. 290766 Magneto Assembly		6
99636 99665	Valve and Seat—Fuel Inlet Yoke—Fuel Filter		ż		Used on type Nos. 205192, 20530		g.
99679	Lever Assembly—Choke		2		No. 290767 Magneto Assembly. (Shielded Ignition)	• •	6
99686	Sector Assembly—Starter		14		Includes: No. 290020 Wire—Grn	d.	1
99700	Shaft and Lever—Choke		2		Used on type Nos. 205284, 20531		
	Note: No. 23252 Shaft—Choke		1		No. 290877 Magneto Assembly.		6
	Used on type Nos. 205108, 205125,				(Shielded Ignition)		
00714	205150, 205170, 205177, 205269.		10		Used on type Nos, 205105, 20516		
99714	Filter Assembly—Fuel		10		205166, 205182, 205183, 20530	10,	
	Used on type No. 205274.				205314.		6
99763	Support Assembly—Foot Lever	2			No. 290878 Magneto Assembly. Used on type Nos. 205123, 20518		6
99764	Support Assembly—Foot Lever	. 2	_		205292.	,	
99793	Tube—Control Casing		2		No. 42215 Connector.		1
99833 99858	Crank Assembly—Bell		2 14		Includes: No. 66104 Insulator	••	1
99868	Sector Assembly—Starter		8	•	(No. 66205 Wire—Groun		_ 1
99865	Support Assembly—Foot Lever	•	8		No. 290879 Magneto Assembly.	• •	ь
99868	Shaft and Lever—Throitle		1		Used on type No. 205084. [No. 42215 Connector.		1
	Note: No. 89736 Shaft and Lever-	•			Includes: No. 62598 Baffle		ī
	Throttle		1		No. 66155 Wire—Groun		1
	Used on engines before Serial No	•		290792 Plate-	-Magneto		2
99874	79294. Adjuster—Speed		1		No. 290351 Plate-Magneto		2
99876	Carburetor Assembly		•		Used on type Nos. 205192, 20530		
000.0	Note: No. 89734 Corburetor Assembly.				No. 290869 Plate—Magneto	• •	2
	Used on engines before Serial No				Used on type Nos. 205084, 20511		
	79294.				205120, 205123, 205129, 20513		
	No. 89507 Carburetor Assembly.	1			205135, 205137, 205150, 20515		
	Used on type Nos. 205108, 205125 205150, 205170, 205177, 205269	•			205165, 205168, 205189, 20519 205269, 205289, 205292, 20529	95.	
99879			3		205308, 205320.	1	
000,0	Note: No. 290094 Cover Assembly—Fue		-	290918 Lever	Assembly—Control		3
	Filter		3		ssembly-Piston (Standard)		2
	Used on type No. 205274.	_			ssembly—Piston (.005" O.S.)		2
99896			0		ng—Starter Clutch		10
	Cover Assembly—Gear Case		3		No. 21500 Housing-Clutch Start		3
200122	Shafi Assembly—Drive	. 1	13		Used on type No. 205177.		
	Bracket—Fuel Tank Mounting, L.H		8		No. 21517 Housing—Starter Club		3
	Bracket-Fuel Tank Mounting, R.H		8		Used on type Nos. 205179, 20527		_
	Lever Assembly—Control (Stamped Steel		4		n—Blower Housing		2
	Note: No. 29035 Lever Assembly—Con		_	Note:	No. 291430 Screen—Blower Hou		•
	trol		8		ing (Full Screen)		2
	Used on type Nos. 205071, 205083	•			Used on engines without starte on magneto side.	113	
	205104, 205151.				ou magneto stae.		

Before ordering parts, read instructions top page 11

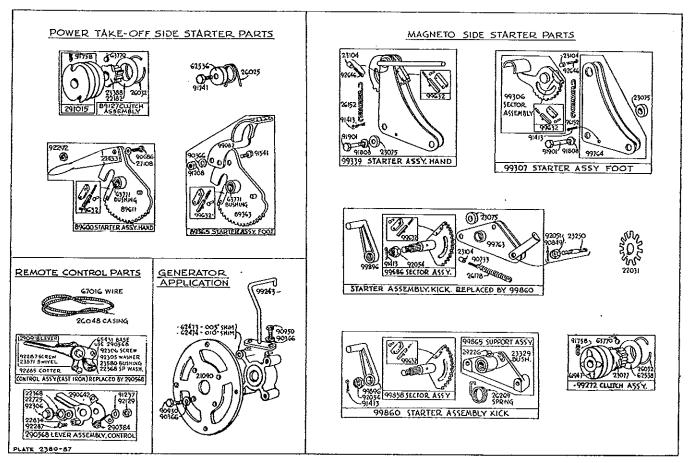
Plate No. 15





ASSEMBLIES INCLUDE ALL PARTS SHOWN IN BRACKETS ABOVE PARTS LISTED ON PAGE 11 THROUGH 16

Plate No. 17



ASSEMBLIES INCLUDE ALL PARTS SHOWN IN BRACKETS ABOVE PARTS LISTED ON PAGE 11 THROUGH 16

THE GUARANTEE—For Ninety Days 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 the purchaser.

WHAT THIS GUARANTEE DOES NOT INCLUDE—This guarantee 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.

# 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 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.

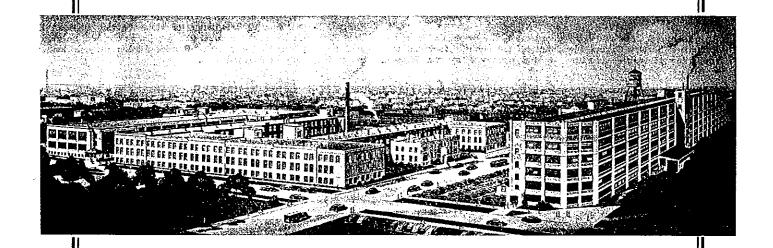
### Authorized Central Service Distributors

	COUNTY	NAME	LOCATION
STATE	CITY		
Alabama	Birmingham 3	Birmingham Electric Battery Co	ARCAIA N Control Ave
Arizona	Phoenix 15	Electric Equipment Co	1611 S. Hope St.
California	Los Angeles 13	Frank Edwards Co., Automotive Service Div	202.4 Sivih St.
California	Denver 1	Spitzer Electric Co	43 W 9th Ave.
	Terelegopyello 1	Spencer Electric. Inc	AN W. Regyar St.
	Micmi 49	. Electric Equipment Co	1415 N. W. ZISI 10HQC0
	Temps 1	Spencer Auto Electric, Inc	RD7-11 E. COSS St.
	Kilomia 2	Auto Electric & Middleto Co	477 Shring St., IV. VV.
best .	Chiaggo 16	Mid-States Auto Liectric Co	1905 S. Michigan Ave.
	(ndiananolle 4	. Guilling Abio Electric Co	459 N. CODIOLAVE
-	Dog Moineg 9	. Magneto Carbureior & Electric Co., Mc	1308 Grand Ave.
	Wichite 9	.The E. S. Cowie Electric Co	23U S. TODOKO AVE.
	Lavington 34	Kentucky Ignilion Co., Inc.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Rose and Vine 518.
	Levieville 7	. Kentucky ignilion Co., Inc.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	737 S. 3rd St.
• • • • • • • • • • • • • • • • • • • •	Nour Orleans 1	. A. C. Subren Co	4K40 S. COMOLION AVE.
	Chronori	.Chain Railery & Automotive Supply, Inc.,,,,,,,	Spring at Fannin 5t.
	Design C/	. W. I. Connell Co	210 Needham St.
*** 11	Dolrott 38	. Anto Electric & Service Corp	INDU WOODIOW WILSON MYO.
Minnesota	Minneapolis 16	Reinhard Brothers Co., Inc.	43UI HIGHWAY /
Missouri	.Kansas City 8	. The E. S. Cowie Electric Co	1819 Wydiidolle St.
Missouri	St. Louis 3	Medart Auto Electric Co., Inc.	3134 Washington Dive.
Montana	Billings	Original Equipment, Inc	12th and Janes St
Nebraska	. Omana Z	Spitzer Electrical Co. of New Mexico	2rd and Mountain Rd.
New Mexico		The Battery & Starter Co., Inc.	2505 Main St.
New York	Name Waste 10	The Durham Co., Inc.	. 606 W. 49th St.
New York	Carrier A	F. A. Crossman, Inc.	943 W. Genesee St.
New York	Charlette 1	. Automotive Electric Associates, Inc.	306-14 N. Graham St.
Mr. al. Dudantas	Faran	Reinhord Bros. Co., Inc.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	301 N. Pacilic Ave.
Ol-1-	Cincinnati 2	.Gardner. Inc.	. 1847 Reading Road
OLG.	Claveland 15	Electric Power & Maintenance Co	Prospect at E. Jun
Olde	Tolodo 2	Electric Power & Maintenance Co	. 26.30 Seventeenth St.
Ot to be seen	Oklahoma Cliv 2	American Electric Ignition Co	. 124 N. W. 8th St.
A	Dariland Q	Tracev & Co., Inc.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	. N. W. 10th and Glisan
D	Dhlladalphia 30	Auto Equipment & Service Co., Inc.,	. 1522-24 Foirmount Ave.
D	Dillahurah 24	Pitt Auto Electric Company	. 5135 Baum Biva.
m	Knovella 7	R. T. Clapp Company	. 2016 Magnolla Ave. N. E.
M	Momnhis 4	Automotive Electric Service Co	.982 Linden Ave.
Texas	Amarillo	Beard & Stone Electric Company, Inc	.700 E. 10th St.
Texas	, .Dallas 1	Beard & Stone Electric Company, Inc	, 3909 Live Oak St.
Texas	. El Paso	. Motor Supply Co	308 Chinuanua Si.
Τοχας	Housion 1	Beard & Stone Electric Company, Inc.	APE W Flores St
Texas	San Anionio 6	.S. X. Callahan	tel C Ciato Ci
Utah		Frank Edwards Co., Motor Equipment Div	2912 W. Leigh St.
Virginia		Charles Stewart, Inc.	1741 First Ave. South
Washington	beaule 4	Sunset Electric Co	N. 703 Division St.
Washington	Milwanhos 2	Wisconsin Magneto Co	918 N. Broadway
Wisconsin		, maconam magneto vol	
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#### DOMINION OF CANADA

British Columbia	Vancouver	Auto Electric	Service (Pacific)	Ltd 1025 Howe St.
Manitoha		Auto Electric	Service (Western	n) Ltd Dis
Ontario	Toronio 5	Avio Electric	Service Compar	y, Limited1009 Bay St.

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