Illustrated Parts List Motorsports Model Series



133230

TYPE NUMBER 8014.

A WARNING:

- MODEL 133230–8014–01 IS A RACING ENGINE
- SPECIAL SKILLS AND KNOWLEDGE ARE REQUIRED TO PREPARE THE ENGINES FOR COMPETITIVE USE. IF YOU ARE NOT FAMILIAR WITH THE PROPER TECHNIQUES AND PROCEDURES, HAVE QUALIFIED INDIVIDUALS DO THE WORK FOR YOU
- THE ENGINES DO NOT HAVE GOVERNORS. ANY THROTTLE MECHANISM MUST HAVE A RETURN-TO-IDLE SPRING SO THE ENGINE WILL RETURN TO IDLE SPEED WHEN THE THROTTLE PEDAL IS RELEASED

FAILURE TO FOLLOW THESE WARNINGS COULD RESULT IN SERIOUS PERSONAL INJURY OR DEATH

TO FIND THE CORRECT NUMBER OF THE PART YOU NEED: FOLLOW THE INSTRUCTIONS ON THE REVERSE SIDE

- A. Refer to Engine Model, Type and Code Number that is stamped on the blower housing of engine. Engine type numbers such as 0123 01 are listed only as 0123 in most instances. The two digits (01 or 02, etc.) to the right of the space may be required for more accurate parts identification in some instances. Select the Illustrated Parts List covering the correct Model Series and Type Number.
- B. Refer to the Illustrations and compare the original part with Illustration. The number next to the illustration is the Reference Number. Assemblies include all parts shown in frames. All parts shown in assembly frames having individual reference numbers can be purchased separately.
- C. After the Reference Number has been identified, refer to the Numerical text, where Reference and Primary Part Number are listed. THE PRIMARY PART IS USED ON ALL TYPE NUMBERS EXCEPT THOSE TYPE NUMBERS UNDER "NOTE."
- D. If a "Note" appears below the Primary Part Number, it means that this part differs from the Primary Part for certain types. If your Type number is listed under "Note," order the part referred to at the "Note."
- E. If your Engine Type Number does not appear after any part number listed under "Note," use the Primary Part Number.
- F. For Engine Type Numbers not covered by this book, check other Parts Lists having the same engine model or contact your source of supply.

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In the Interest of Safety



This safety alert symbol indicates that this message involves personal safety. The words "danger", "warning" and "caution" indicate degree of hazard. Death, personal injury and/or property damage may occur unless instructions are followed carefully.



You are not ready to operate this engine if you have not read and understood the following safety items. Read the entire owner's manual and the operating instructions of the equipment this engine powers.

The Briggs & Stratton engine is made of the finest material in a state-of-the-art manufacturing facility. Please understand that Briggs & Stratton sells engines to original equipment manufacturers. It also sells to others in the distribution chain who may sell to the ultimate consumer, an equipment manufacturer, another distributor or a dealer. As a result, Briggs & Stratton does not necessarily know the application on which the engine will be placed. For that reason, carefully read and understand the operating instructions of the equipment before you repair or operate it.

You should also understand that there are equipment applications for which Briggs & Stratton does not approve the use of its engines. Briggs & Stratton engines are not to be used on vehicles with less than 4 wheels. They include motor bikes, aircraft products and All Terrain Vehicles. Moreover, Briggs & Stratton does not approve of its engines being used in competitive events. FOR THAT REASON, BRIGGS & STRATTON ENGINES ARE NOT AUTHORIZED FOR ANY OF THESE APPLICATIONS. Failure to follow this warning could result in death, serious injury (including paralysis) or property damage.



DO NOT run engine in an enclosed area. (Exhaust gases contain carbon monoxide, an odorless and deadly poison.)

DO NOT remove fuel tank cap nor fill fuel tank while engine is hot or running. DO NOT refuel indoors or in an unventilated area. (Allow engine to cool 2 minutes before refueling.)

DO NOT place hands or feet near moving or rotating parts.

DO NOT store, spill, or use gasoline near an open flame, nor near an appliance like a stove, furnace, or water heater that uses a pilot light or can create a spark.

DO NOT refuel indoors or in an unventilated area.

DO NOT operate or tip engine/equipment at such a severe angle that causes gasoline spillage.

DO NOT operate engine if gasoline is spilled or when smell of gasoline is present or other explosive conditions exist. (Move equipment away from spill and avoid any ignition until gasoline has evaporated.)

DO NOT transport engine with fuel in tank or fuel shutoff valve open.

DO NOT choke carburetor to stop engine, especially in an enclosed vehicle. (Whenever possible, gradually reduce engine speed before stopping.)

DO NOT tamper with governor springs, links or other parts to increase engine speed. (Run engine at speed set for equipment manufacturer.)

DO NOT check for spark with spark plug removed. (Use an approved tester.)

DO NOT run engine without blower housing or other safety shields removed when doing repairs.

DO NOT crank engine with spark plug removed. (If engine is flooded, place throttle in FAST and crank until engine starts.)

DO NOT strike flywheel with a hammer or hard object as this may cause flywheel to shatter in operation. (To remove flywheel, use Briggs & Stratton approved tools and procedures only.)

DO NOT operate engine without a muffler. (Inspect periodically and replace if worn or leaking. If engine is equipped with muffler deflector, inspect periodically and replace if necessary. Replacement parts must be same as on original equipment.)

DO NOT operate engine with an accumulation of grass, leaves or other combustible material in muffler area.

DO NOT use this engine on any forest covered, brush covered, or grass covered unimproved land unless a spark arrester is installed on muffler. The spark arrester must be maintained in working order by the owner and/or operator. In the State of California the above is required by law (Section 4442 of the California Public Resources Code). Other states may have similar laws. Federal laws apply on federal lands.

DO NOT touch hot muffler, cylinder, or fins which can cause burns.

DO NOT start engine with air cleaner or air cleaner cover removed (or cover over carburetor air intake, if Sno/Gard engine).

DO NOT attempt to start engine with cutting blade loose or removed. (Blade must be tight, otherwise a kickback may occur.)



✓ Prior to work, read and understand the section(s) of this manual that pertain to the job. Follow all safety warnings.
✓ PULL starter cord <u>slowly</u> until resistance is felt. Then pull cord rapidly to avoid kickback and prevent hand or arm injury.
✓ WEAR suitable eye protection (safety glasses, goggles or face shield when performing repair procedures.

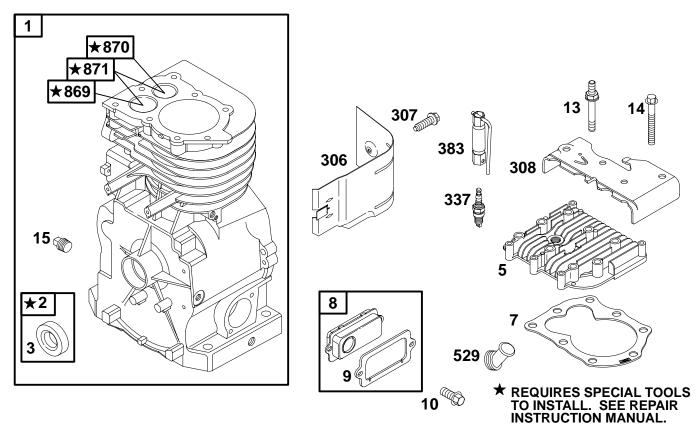
- PREVENT ACCIDENTAL STARTING by removing spark plug wire from spark plug when servicing engine or equipment. Disconnect negative wire from battery terminal if equipped with electric starting system.
- ✓ RÉMÓVE blower housing periodically and clean engine. Keep cylinder fins and governor parts free of dirt, grass and other debris which can affect engine speed.
- USE fresh gasoline. Stale fuel can gum carburetor and cause leakage.
- CHECK fuel lines and fittings frequently for cracks or leaks. Replace if necessary.

USE ONLY Genuine Briggs & Stratton Parts or their equivalent. The use of replacement parts which are not of equivalent quality may damage the engine.





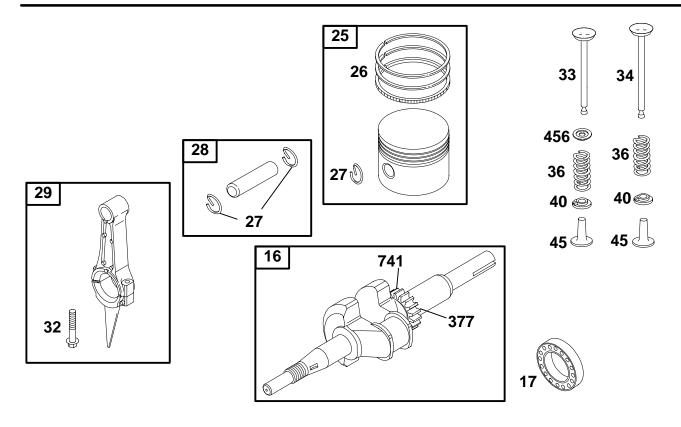
The engine exhaust from this product contains chemicals known to the State of California to cause cancer, birth defects, or other reproductive harm.



REF. NO.	PART NO.	DESCRIPTION	REF. NO.	PART NO.	DESCRIPTION	REF. NO.	PART NO.	DESCRIPTION
1 2 3 5 7 8 9 10 13 14 15	555140 *555071 555257 *555187 555073 *555036 555043 555082 555045	Head–Cylinder Gasket–Cylinder Head Breather Assembly Gasket–Breather	306 307 308 337 383 529 869 870	555046 555056 555132 89838 555074 555136	Shield-Cylinder Screw (Cylinder Shield) Cover-Cylinder Head Plug-Spark Wrench-Spark Plug Grommet Seat-Intake Valve Seat-Exhaust Valve	871	555214	Bushing-Guide Exhaust Valve) (Sintered Bronze) OR 555158 Bushing- Guide Exhaust Valve) (Sintered Iron)

[★] Included in Gasket Set-Part No. 555210.

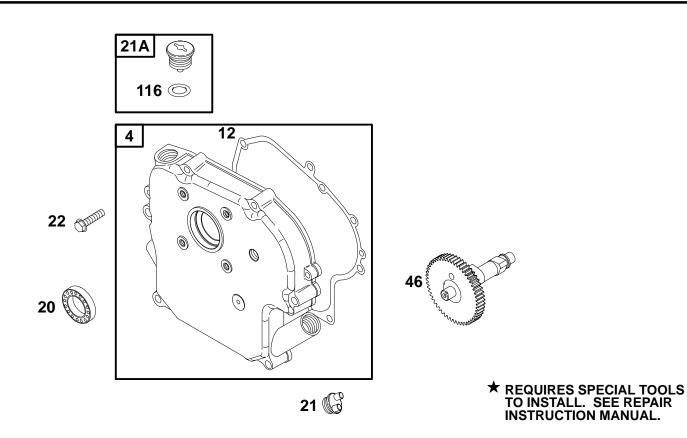
[•] Included in Carburetor Kit-Part No. 555130.



REF. NO.	PART NO.	DESCRIPTION	REF. NO.	PART NO.	DESCRIPTION	REF. NO.	PART NO.	DESCRIPTION
16 17 25	555050	Crankshaft Bearing–Ball Piston Assembly ——— Note ———	27 28		Lock–Piston Pin Pin–Piston (Standard) ——— Note	40 45 377 456	555061 555049	Retainer–Spring Tappet–Valve Key–Woodruff Retainer–Spring
26	555088	555093 Piston Assy. (.010" O.S.) 555094 Piston Assy. (.020" O.S.) 555095 Piston Assy. (.030" O.S.) Ring Set	29	555207	555059 Pin–Piston (.005" O.S.) Rod–Connecting (Standard) — Note 555208 Rod– Connecting	741		Gear-Timing (Tempered)
		(Standard) Note 555089 Ring Set (.010" O.S.) 555090 Ring Set (.020" O.S.) 555091 Ring Set (.030" O.S.)	32 33 34 36	555077 555062	(.020" Undersize) Screw–Connecting Rod Valve–Exhaust Valve–Intake Spring–Valve			

[★] Included in Gasket Set-Part No. 555210.

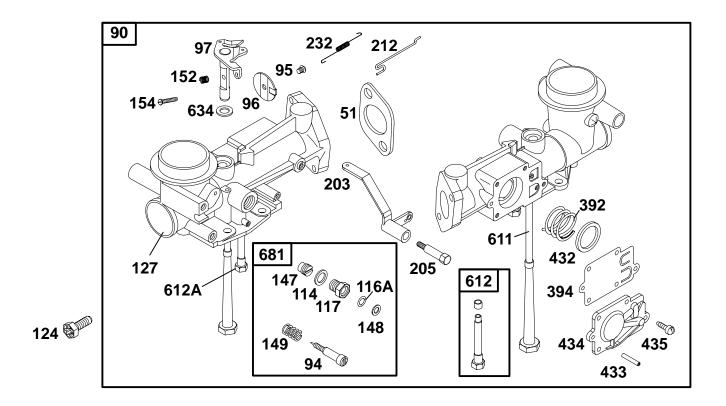
[•] Included in Carburetor Kit-Part No. 555130.



REF. NO.	PART NO.	DESCRIPTION	REF. NO.	PART NO.	DESCRIPTION	REF. NO.	PART NO.	DESCRIPTION
NO. 4	NO. 555209	DESCRIPTION Cover—Crankcase Gasket—Crankcase (.015" Thick, Std.) *555064 Gasket— Crkcse. (.005" Thick) *555065 Gasket— Crkcse. (.009" Thick)		NO. *555087 555037 555138		NO. 46	NO. 555052	Gear–Cam (Machined Lobes) — Note 555000 Gear–Cam (Unmachined Lobes) Ring–Oil Retainer

[★] Included in Gasket Set-Part No. 555210.

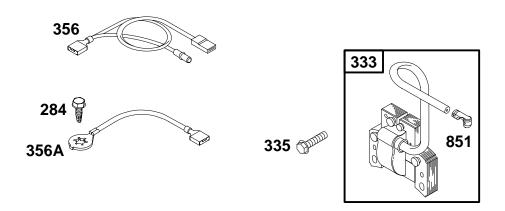
[•] Included in Carburetor Kit-Part No. 555130.



REF. NO.		DESCRIPTION	REF. NO.	PART NO.	DESCRIPTION	REF. NO.	PART NO.	DESCRIPTION
	*•555078 555129 •555124 555232 555109 555100 •555106 •555122 •555126	Gasket–Intake Elbow Carburetor Valve–Idle Adjustment Screw–Hex. Valve–Throttle Shaft–Throttle Gasket–Valve Packing–Valve Nut–Needle Valve Screw–Carburetor Mounting	127 147 148 149 152 154 203 205 212 232 392	555105 •555114 •555125 •555123 555101 555102 555104 555110 555116 555117	Plug-Welch Seat-Needle Valve Washer-Needle Valve Spring-Needle Valve Spring-Adjustment Screw-Round Head Crank-Bell Screw-Shoulder Link-Throttle Spring-Link Spring-Diaphragm	394 432 433 434 435 611 612 612A 634 681	•555119 555113 555108 555112 555107 555103 555128 555120 555118	Diaphragm— Carburetor Cap—Spring Pin—Roll Cover—Diaphragm Screw—Hex. Tube—Pick-up Tube—Pick-up Washer—Shaft Valve—Needle Kit

[★] Included in Gasket Set-Part No. 555210.

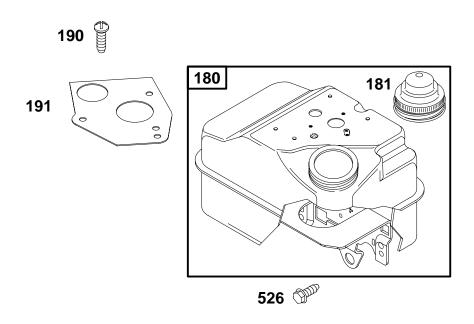
[•] Included in Carburetor Kit-Part No. 555130.



REF. NO.	PART NO.	DESCRIPTION	REF. NO.	PART NO.	DESCRIPTION	REF. NO.	PART NO.	DESCRIPTION
284 333 335	555080 555075	DESCRIPTION Screw–Hex. Armature–Magneto Screw–Hex.	356	NO.	DESCRIPTION Wire-Stop (Armature to Switch)	356A 851	NO. 555099	DESCRIPTION Wire—Stop (Stop Switch to Ground) Terminal—Cable

[★] Included in Gasket Set-Part No. 555210.

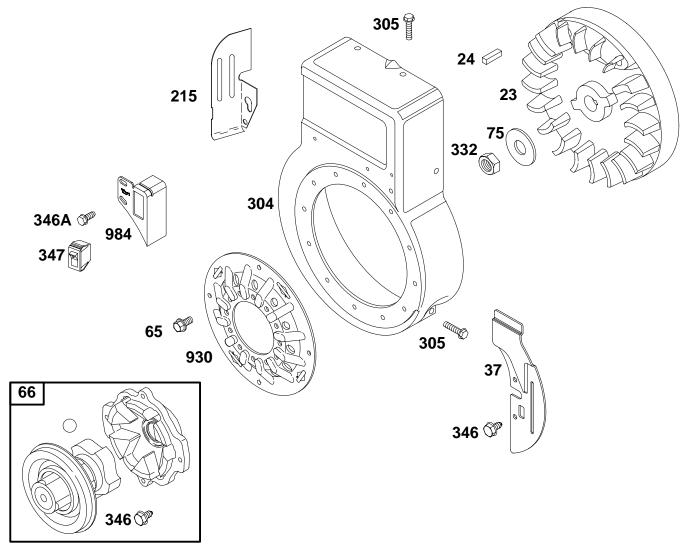
[•] Included in Carburetor Kit-Part No. 555130.



REF. NO.	PART NO.	DESCRIPTION	REF. NO.	PART NO.	DESCRIPTION	REF. NO.	PART NO.	DESCRIPTION
180 181	555192	Tank-Fuel Cap-Fuel Tank	190	555048	Screw-Hex. Gasket-Tank Mtg.	526		Screw-Hex.

[★] Included in Gasket Set-Part No. 555210.

[•] Included in Carburetor Kit-Part No. 555130.

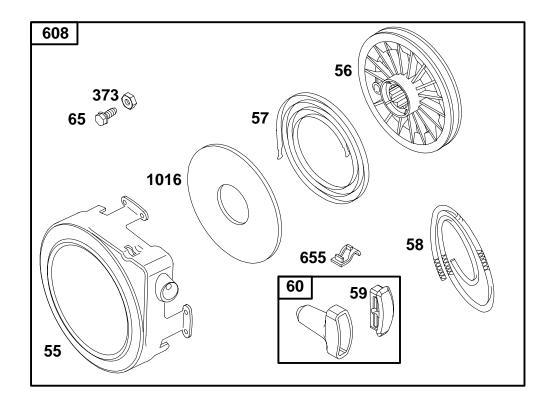


★ REQUIRES SPECIAL TOOLS TO INSTALL. SEE REPAIR INSTRUCTION MANUAL.

REF. NO.	PART NO.	DESCRIPTION	REF. NO.	PART NO.	DESCRIPTION	REF. NO.	PART NO.	DESCRIPTION
23 24 37 65 66 75	555054 555053 555211 555171	Flywheel Key-Flywheel Guard-Flywheel Screw-Torx® Clutch-Starter Washer-Flywheel	215 304 305 332 346	555256 555051 555038	Guide-Air Housing-Blower Screw-Hex. Nut-Hex. Screw-Hex.	346A 347 930 984	555098 555255	Screw–Hex. Switch–Stop Guard–Finger Bracket–Indicator Light

[★] Included in Gasket Set-Part No. 555210.

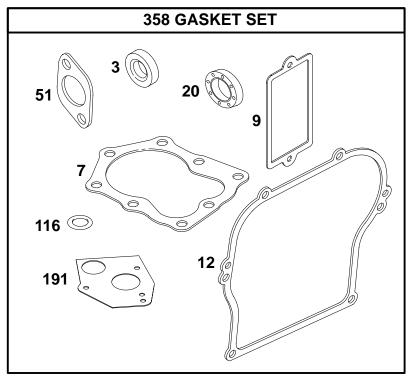
[•] Included in Carburetor Kit-Part No. 555130.

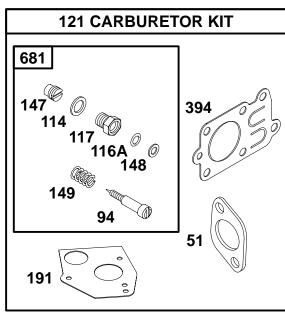


REF. NO.	PART NO.	DESCRIPTION	REF. NO.	PART NO.	DESCRIPTION	REF. NO.	PART NO.	DESCRIPTION
	NO. 555222 555224	DESCRIPTION Housing-Rewind Starter Pulley-Starter Spring-Rewind Starter		NO. 555221 555227 555228	Rope–Starter (63" Long)		NO. 555230 555165 555223	Nut-Hex. Starter-Rewind Anchor-Spring Spacer-Rewind

[★] Included in Gasket Set-Part No. 555210.

[•] Included in Carburetor Kit-Part No. 555130.





REF. NO.	PART NO.	DESCRIPTION	REF. NO.	PART NO.	DESCRIPTION	REF. NO.	PART NO.	DESCRIPTION
3 7 9 12	★555036	Seal-Oil Gasket-Cylinder Head Gasket-Breather Gasket-Crankcase (.015" Thick, Std.) *555064 Gasket- Crankcase (.005" Thick) *555065 Gasket- Crankcase (.009" Thick)	_	•555124 •555106 *555135 •555122 •555126 555130 •555114	Seal-Oil Gasket-Intake Elbow Valve-Idle Adjustment Gasket-Valve Ring-Oil Retainer Packing Valve Nut-Needle Valve Carburetor Kit Seat-Needle Valve Washer-Needle Valve	191 358	*●555084 555210 ●555119	Spring-Needle Valve Gasket-Tank Mtg. Gasket Set Diaphragm- Carburetor Valve-Needle Kit

[★] Included in Gasket Set-Part No. 555210.

[•] Included in Carburetor Kit-Part No. 555130.