RAPTOR II RACING ENGINES

Illustrated Parts List Motorsports Model Series



135230

TYPE NUMBER 7014.

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WARNING:



- MODEL 135230-7014-01 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. Assemblles 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. 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.

The Briggs & Stratton engine you bought 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, you should carefully read and understand the operating instructions of the equipment on which your engine is placed before you 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. FOR THAT REASON, BRIGGS & STRATTON ENGINES ARE NOT AUTHORIZED FOR ANY OF THESE AP-PLICATIONS. Failure to follow this warning could result in death, serious injury (including paralysis) or property damage.



WARNING

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

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 remove fuel tank cap nor fill fuel tank while engine is hot or running. (Allow engine to cool 2 minutes before refueling.)

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

DO NOT transport engine with fuel in tank or with fuel shut-off valve open.

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

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

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. (Use correct tools to service engine.)

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, if necessary, replace with correct deflector.)

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. Spark arrester must be maintained in effective working order by 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).

WARNING

PREVENT ACCIDENTAL STARTING by removing spark plug wire when servicing engine or equipment. Disconnect negative wire from battery terminal If equipped with electric starting system.

KEEP cylinder fins and governor parts free of dirt, grass and other debris which can affect engine speed.

PULL starter cord slowly until resistance is felt. Then pull cord rapidly to avoid kickback and prevent hand or arm infury.

USE fresh gasoline. Stale fuel can gum carburetor and cause leakage.

CHECK fuel lines and fittings frequently for cracks or leaks. Replace if required.

4 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.

International **Symbols**



Safety Alert



Read Owner's Manual

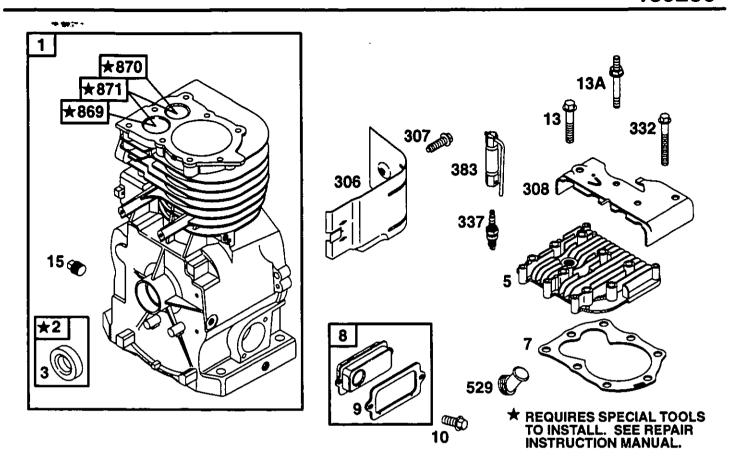








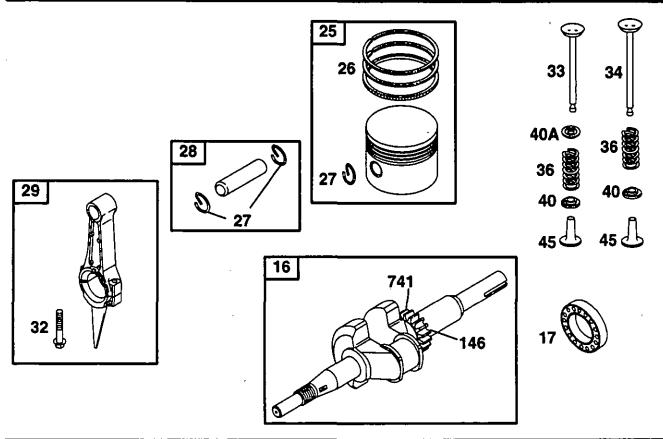




REF. NO.	PART NO.	DESCRIPTION	REF. NO.	PART NO.	DESCRIPTION	REF. NO.	PART NO.	DESCRIPTION
1 2 3 5 7 8 9 10 13 13A 15 306	555206 555140 *555071 555199 *555187 555073 *555036 555043 555041 555082 555079	Cylinder Assembly Bushing	307 308 332 337 383 529 869 870	555046 555056 555045 555132 89838 555074 555136	Screw-Hex. Cover-Cylinder Head	871		Bushing-Guide Exhaust Valve) (Sintered Bronze) OR 555158 Bushing- Guide Exhaust Valve) (Sintered Iron) Note 555139 Bushing- Guide (Intake Valve)

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

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

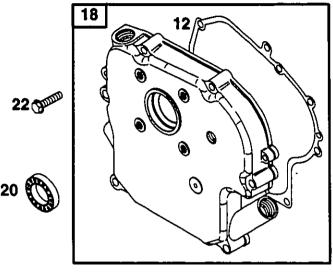


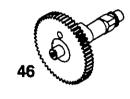
REF. NO.	PART NO.	DESCRIPTION	REF. NO.	PART NO.	DESCRIPTION	REF. NO.	PART NO.	DESCRIPTION
16 17 25	555050	Crankshaft Bearing-Ball Piston Assembly Note 555093 Piston Assy. (.010" O.S.)	27 28		Lock-Piston Pin Pin-Piston (Standard) Note 555059 Pin-Piston (.005" O.S.)	45 146 741	555049	Tappet-Valve Key-Woodruff Gear-Timing (Tempered)
26	555088	555094 Piston Assy. (.020" O.S.) 555095 Piston Assy. (.030" O.S.) Ring Set (Standard)	29	555207	(Standard) Note 555208 Rod Connecting (.020" Undersize)	,		
		Note ————————————————————————————————————	32 33 34 36 40 40A	555077 555062 555076 555039	Screw-Connecting Rod Valve-Exhaust Valve-Intake Spring-Valve Retainer-Valve Retainer-Valve			

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

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







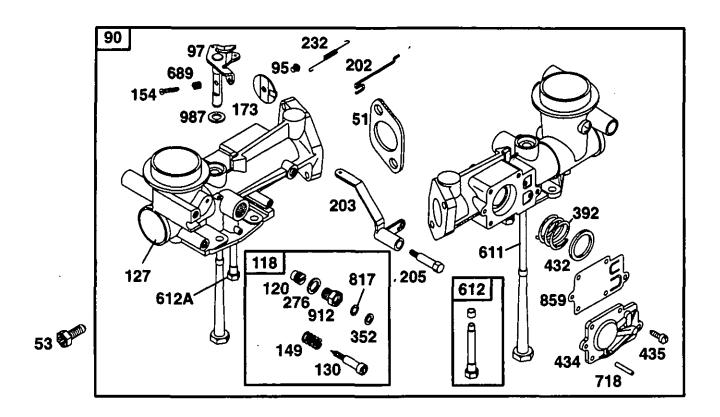
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* REQUIRES SPECIAL TOOLS TO INSTALL. SEE REPAIR INSTRUCTION MANUAL.

1	REF.	PART NO	DESCRIPTION	REF.	PART	DESCRIPTION	REF.	PART	DESCRIPTION
	NO.	NO.	DESCRIPTION Gasket-Crankcase (.015" Thick, Std.) Note *555064 Gasket- Crankase (.005" Thick) *555065 Gasket- Crankcase (.009" Thick)	REF. NO. 18 20 21 21A 22	NO. 555209 *555087 555037 555138	DESCRIPTION Cover—Crankcase Seal—Oil Plug—Oil Fill Plug—Oil Fill Screw—Hex.	NO. 46	NO. 555052	DESCRIPTION Gear-Cam (Machined Lobes) Note 555000 Gear-Cam (Unmachined Lobes) Ring-Oil Retainer

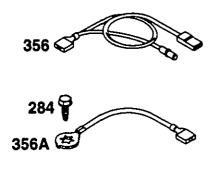
[★] Included in Gasket Set-Part No. 555210.

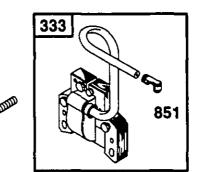
[•] Included in Carburetor Kit-Part No. 555130.



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

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

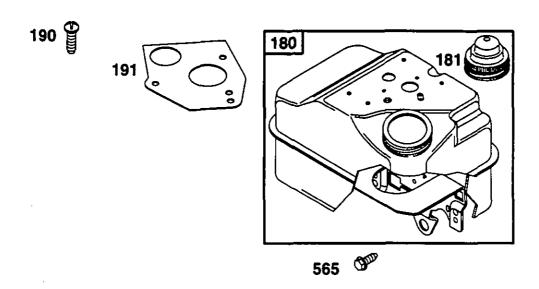




REF. NO.	PART NO.	DESCRIPTION	REF. NO.	PART NO.	DESCRIPTION	REF. NO.	PART NO.	DESCRIPTION
284 333 335	555075	Screw-Self Tap Armature-Magneto Screw-Hex.	356	555086	Wire-Stop (Armature to Switch)	356A		Wire-Stop (Stop Switch to Ground)
						851	555072	Terminal-Cable
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[★] Included in Gasket Set-Part No. 555210.

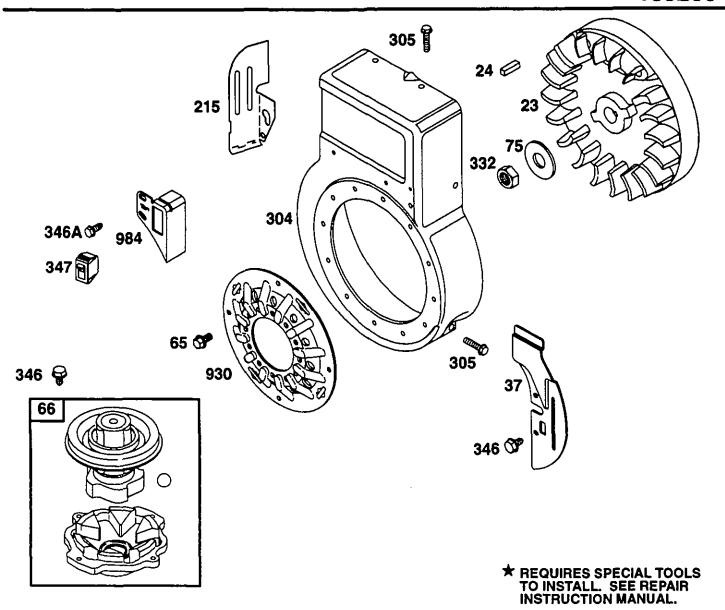
[•] Included in Carburetor Kit-Part No. 555130.



REF. NO.	PART NO.	DESCRIPTION	REF. NO.	PART NO.	DESCRIPTION	REF. NO.	PART NO.	DESCRIPTION
180 181		Tank-Fuel Cap-Fuel Tank	190 191		Screw-Torx® Gasket-Tank Mtg.	565	555044	Screw-Hex.
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[★] Included in Gasket Set-Part No. 555210.

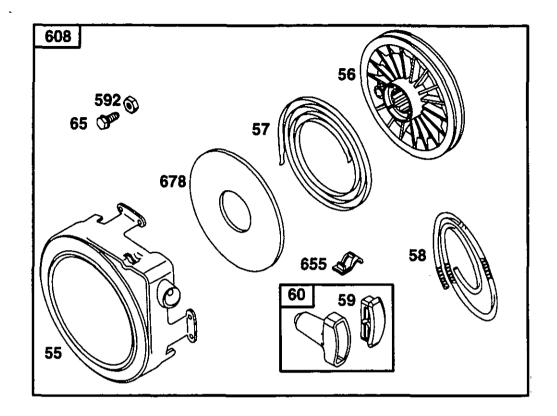
[•] Included in Carburetor Kit-Part No. 555130.



REF. PART NO. NO. DESCRIPTION REF. PART NO. NO. DESCRIPTION NO. NO. DESCRIPTION NO. NO.	DESCRIPTION
24 555054 Key-Flywheel 304 555190 Housing-Blower 347 555098 37 555053 Guard-Flywheel 305 555051 Screw-Hex. 930 555032	Screw-Hex. Switch-Stop Guard-Finger Bracket-Indicator Light

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

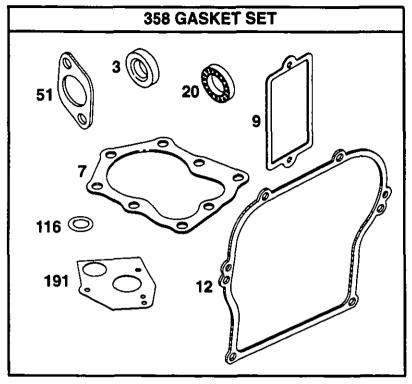
[•] Included in Carburetor Kit-Part No. 555130.

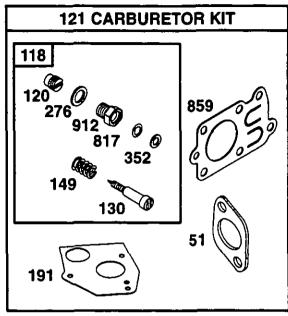


	REF. NO.	PART NO.	DESCRIPTION	REF. NO.	PART NO.	DESCRIPTION	REF. NO.	PART NO.	DESCRIPTION
	55	555222	Housing-Rewind Starter	58	555221	Rope-Starter (63" Long)	592 608		Nut-Hex. Starter-Rewind
	56		Pulley-Starter	59		Insert-Grip	655	555223	Anchor-Spring
	57	555226	Spring-Rewind Starter	60 65		Grip-Starter Rope Screw-Hex.	678	555225	Spacer-Rewind
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[★] 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.) Note *555064 Gasket- Crankcase (.005" Thick) *555065 Gasket- Crankcase (.009" Thick)	20 51 116 118 121 120 130 149	*•555078 *555135 •555127 555130 •555114 •555124	Seal-Oil Gasket-Intake Elbow Ring-Oil Retainer Valve-Needle Kit Carburetor Kit Seat-Needle Valve Valve-Idle Adjustment Spring-Needle Valve	191 276 352 358 817 859 912	•555106 •555125 555210 •555122 •555119	Gasket-Tank Mtg. Washer-Seal Washer-Needle Valve Gasket Set O-Ring Seal Diaphragm- Pump Nut-Needle Valve

^{*} Included in Gasket Set-Part No. 555210.

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

