\$1.50

THE ANIMAL RACING ENGINE

Illustrated Parts List Motorsports Model Series



124332

TYPE NUMBER 8002.

A WARNING:

- MODEL 124332–8002–01 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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BRIGGS & STRATTON

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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.

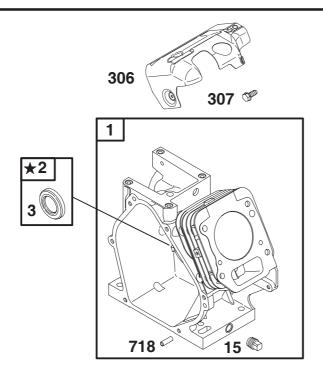
- ✓ PREVENT ACCIDENTAL STARTING by removing spark plug wire from spark plug when servicing engine or equipment. Disconnect negative wire from battery terminal if equipped with electric starting system.
- ✓ RĖMOVE blower housing periodically and clean engine. Keep cylinder fins and governor parts free 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.



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

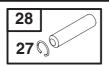


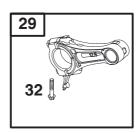
* REQUIRES SPECIAL TOOLS TO INSTALL. SEE REPAIR INSTRUCTION MANUAL.

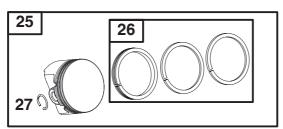
1019 LABEL KIT

REF. NO.	PART NO.	DESCRIPTION	REF. NO.	PART NO.	DESCRIPTION	REF. NO.	PART NO.	DESCRIPTION
1 2	555633	Cylinder Assembly Kit-Bushing/Seal (Magneto Side)		★555071 555583	Seal-Oil (Magneto Side) Plug-Oil Drain Shield-Cylinder	307 718 1019	699483 555579	Screw (Cylinder Shield) Pin–Locating Kit–Label

 $[\]star$ Included in Engine Gasket Set–Ref No. 358. Δ Included in Valve Gasket Set–Ref No. 1095.

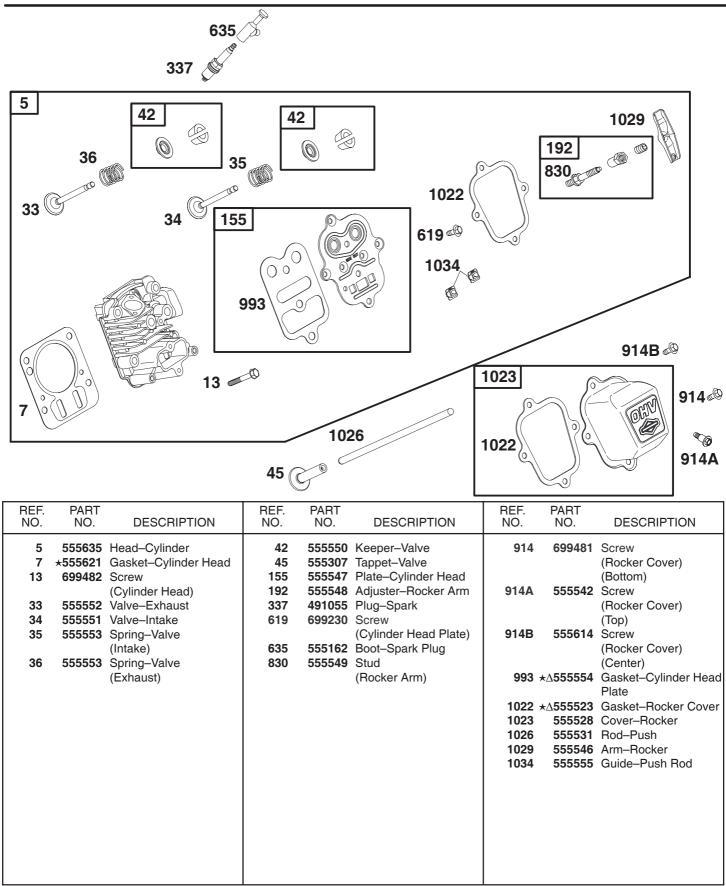






REF. NO.	PART NO.	DESCRIPTION	REF. NO.	PART NO.	DESCRIPTION	REF. NO.	PART NO.	DESCRIPTION
25		Piston Assembly (Standard) ——Note ——S55511 Piston Assembly (.010" Oversize) S55512 Piston Assembly (.020" Oversize) S55513 Piston Assembly (.030" Oversize)	26	555514	Ring Set (Standard) Note 555515 Ring Set (.010" Oversize) 555516 Ring Set (.020" Oversize) 555517 Ring Set (.030" Oversize)	27 28 29 32	555520 555626 555070	Lock-Piston Pin Pin-Piston Rod-Connecting Screw (Connecting Rod)

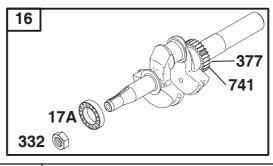
 $[\]star$ Included in Engine Gasket Set–Ref No. 358. Δ Included in Valve Gasket Set–Ref No. 1095.



[★] Included in Engine Gasket Set-Ref No. 358.

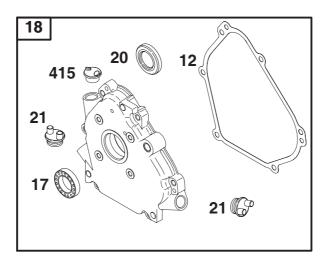
[∆] Included in Valve Gasket Set–Ref No. 1095.

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REF. NO.	PART NO.	DESCRIPTION	REF. NO.	PART NO.	DESCRIPTION	N	REF. NO.	PART NO.	DESCRIPTION
REF. NO. 16 17A 24	555622 555573	DESCRIPTION Crankshaft Bearing-Ball Key-Flywheel	REF. NO. 332	PART NO. 699359		N	REF. NO. 377 741	555049	DESCRIPTION Key-Woodruff Gear-Timing

 $[\]star$ Included in Engine Gasket Set–Ref No. 358. Δ Included in Valve Gasket Set–Ref No. 1095.



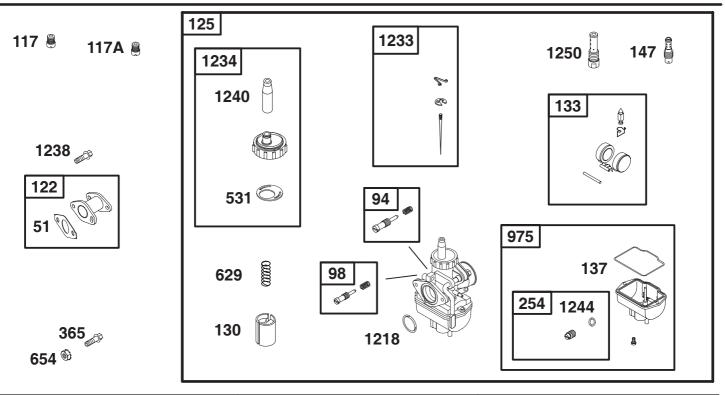
REF. NO.	PART NO.	DESCRIPTION	REF. NO.	PART NO.	DESCRIPTION	REF. NO.	PART NO.	DESCRIPTION
12 17 18	555527	Gasket-Crankcase Bearing-Ball Cover-Crankcase	20 21	*555529	Seal-Oil (PTO Side) Cap-Oil Fill	22	699478	Screw (Crankcase Cover/Sump)
10	333030	Oover-Orankoase	21	333037	- Cap-Oπ 1 III	415	555563	

 $[\]star$ Included in Engine Gasket Set–Ref No. 358. Δ Included in Valve Gasket Set–Ref No. 1095.



REF. NO.	PART NO.	DESCRIPTION	REF. NO.	PART NO.	DESCRIPTION	REF. NO.	PART NO.	DESCRIPTION
46 A6	NO.	Camshaft (Machined) Note 555584 Camshaft (Unmachined)	REF. NO.	PART NO.	DESCRIPTION	REF. NO.	PART NO.	DESCRIPTION
								L UC D (N 404

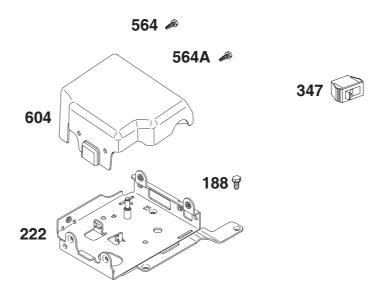
 $[\]star$ Included in Engine Gasket Set–Ref No. 358. Δ Included in Valve Gasket Set–Ref No. 1095.



REF. NO.	PART NO.	DESCRIPTION	REF. NO.	PART NO.	DESCRIPTION	REF. NO.	PART NO.	DESCRIPTION
51 ●, 94 98	555585	Gasket-Intake Kit-Idle Mixture Kit-Idle Speed	133 137 147	•555592	Float-Carburetor Gasket-Float Bowl Jet-Pilot	975 1218		Bowl-Float Seal-O Ring (Carburetor)
117	555536	Jet-Main (Gasoline)	254	555607 555544	Drain-Carburetor Bowl	1233 1234 1238		Jet-Needle Cap-Throttle Cable
117A	555537	(Contains 7 Different Sizes) Jet-Main	365		(Carburetor) (Carburetor to Spacer)			(Carburetor Spacer) (Spacer to Cylinder)
		(Alcohol) (Contains 8 Different Sizes)	531 629		Gasket-Throttle Cable Cap Spring-Throttle	1240 1244		Boot–Throttle Cable (Sold In Kit Only) Seal–O Ring
122 125		Spacer–Carburetor Carburetor	654	555541	Return	1250		(Sold In Kit Only) Tube–Emulsion
130	555590	Valve-Throttle			(Carburetor)			

 $[\]star$ Included in Engine Gasket Set–Ref No. 358. Δ Included in Valve Gasket Set–Ref No. 1095.

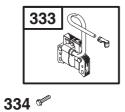
[•] Included in Carburetor Overhaul Kit-Ref No. 121.



REF. NO.	PART NO.	DESCRIPTION	REF. NO.	PART NO.	DESCRIPTION	REF. NO.	PART NO.	DESCRIPTION
REF. NO. 188 222 347	NO. 699479 699493		REF. NO. 564 564A	PART NO. 699491 699492	Screw (Control Cover)	REF. NO. 604	NO.	DESCRIPTION Cover–Control

 $[\]star$ Included in Engine Gasket Set–Ref No. 358. Δ Included in Valve Gasket Set–Ref No. 1095.

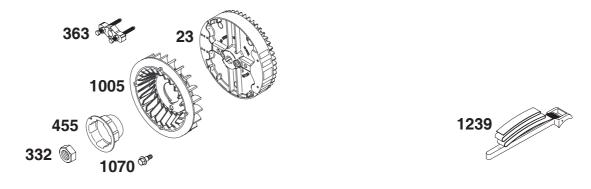






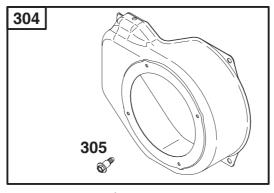
REF. NO.	PART NO.	DESCRIPTION	REF. NO.	PART NO.	DESCRIPTION	REF. NO.	PART NO.	DESCRIPTION
REF. NO. 333	NO.	DESCRIPTION Armature–Magneto	REF. NO. 334	PART NO. 699477		356 356A	NO. 555569	DESCRIPTION Wire—Stop Wire—Stop

 $[\]star$ Included in Engine Gasket Set–Ref No. 358. Δ Included in Valve Gasket Set–Ref No. 1095.



REF. NO.	PART NO.	DESCRIPTION	REF. NO.	PART NO.	DESCRIPTION	REF. NO.	PART NO.	DESCRIPTION
23 332	555625 699359	Flywheel Nut (Flywheel)	363 455 1005	555518	Puller–Flywheel Cup–Flywheel Fan–Flywheel	1070 1239	699201 19433	Screw (Flywheel Fan) Wrench-Flywheel

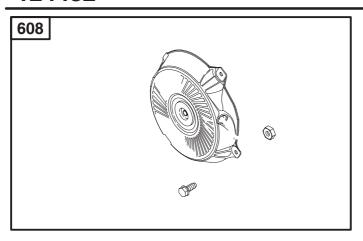
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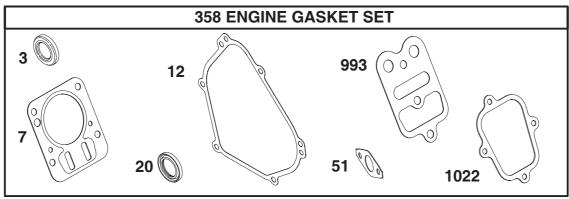
REF. NO.	PART NO.	DESCRIPTION	REF. NO.	PART NO.	DESCRIPTION	REF. NO.	PART NO.	DESCRIPTION
304	555623	Housing-Blower	305 305A	555629 557042	(Blower Housing)			

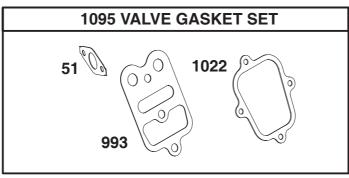
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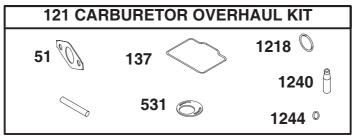


608 555576 Starter—Rewind	

 $[\]star$ Included in Engine Gasket Set–Ref No. 358. Δ Included in Valve Gasket Set–Ref No. 1095.







REF. PART NO. NO.	DESCRIPTION	REF. NO.	PART NO.	DESCRIPTION	REF. NO.	PART NO.	DESCRIPTION
3 ★555071	Seal-Oil (Magneto Side)	121	555605	Kit-Carburetor Overhaul	993	⋆ ∆555554	Gasket–Cylinder Head Plate
	, -	137 358 531	555631	Gasket–Float Bowl Gasket Set–Engine Gasket–Throttle Cable Cap	1022 1095 1218	555581	Gasket–Rocker Cover Gasket Set–Valve Seal–O Ring (Carburetor)
51 ∗•∆555609	•			Сар	1244		Boot-Throttle Cable (Sold In Kit Only) Seal-O Ring (Sold In Kit Only)

 $[\]star$ Included in Engine Gasket Set–Ref No. 358. Δ Included in Valve Gasket Set–Ref No. 1095.

