

**93500 to 93599**

# Illustrated Parts List

**Model Series**

**93500 to 93599**

## COMPLIANCE/NON-COMPLIANCE

TYPE NUMBERS  
5107 through 5119  
5130 through 5220

### TO FIND

**THE CORRECT NUMBER OF THE PART YOU NEED:**

**FOLLOW THE INSTRUCTIONS BELOW**

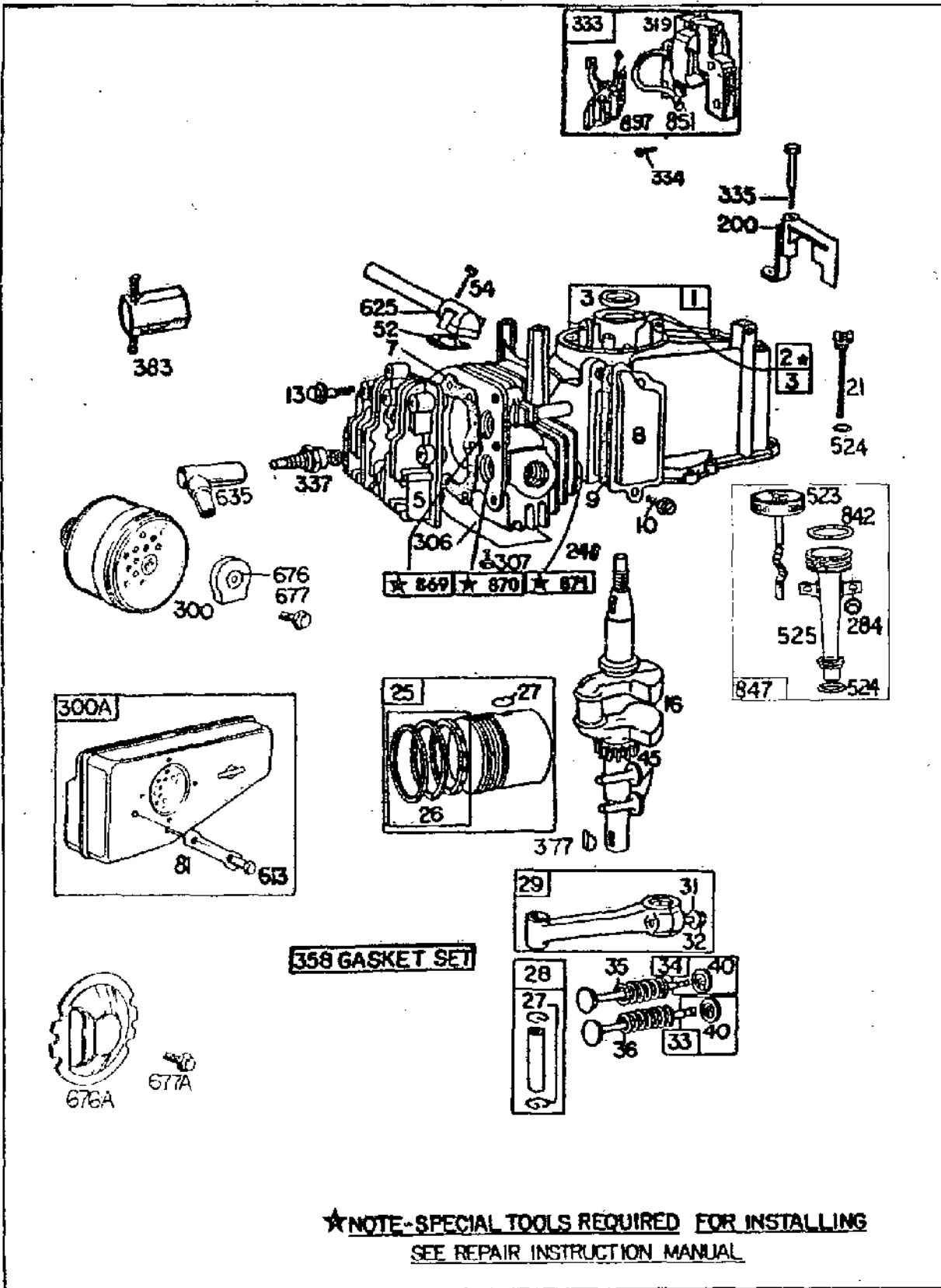
- A. Refer to Engine Model, Type and Code Number that is stamped on the blower housing of engine. Engine type numbers such as 012301 are listed herein only as 0123. The two digits (01 or 02, etc.) to the right of the space are not needed for parts identification. Then use the Illustrated Parts List covering the Model Series.
- B. Refer to Illustrated Parts section and compare the old part with illustration. The number on the illustration is the Reference Number. Assemblies include all parts shown in frames. All parts shown in assembly frames on which individual reference numbers are given can be purchased separately.
- C. After the Reference Number has been identified, refer to the Numerical Parts List, where Reference and Master Part Number are listed. **THE MASTER PART IS USED ON ALL TYPE NUMBERS EXCEPT THOSE TYPE NUMBERS UNDER "NOTE"**.
- D. If a "Note" appears below the Master Part Number, this means that this part differs from the Master Part for certain types. If the Type number is listed under "Note", order the part referred to.
- E. If the Engine Type Number does not appear after any part number listed under "Note", use the Master Part Number.
- F. For Type Numbers higher than those covered by this book, please refer to the factory if you are unable to identify the part by comparison.

PRINTED IN U.S.A.



COPYRIGHT©

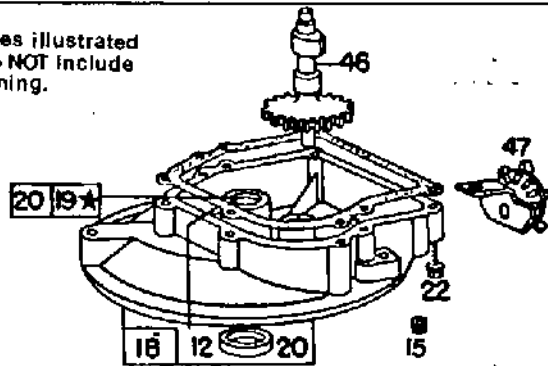
# 93500 to 93599



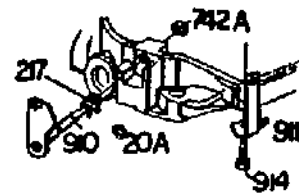
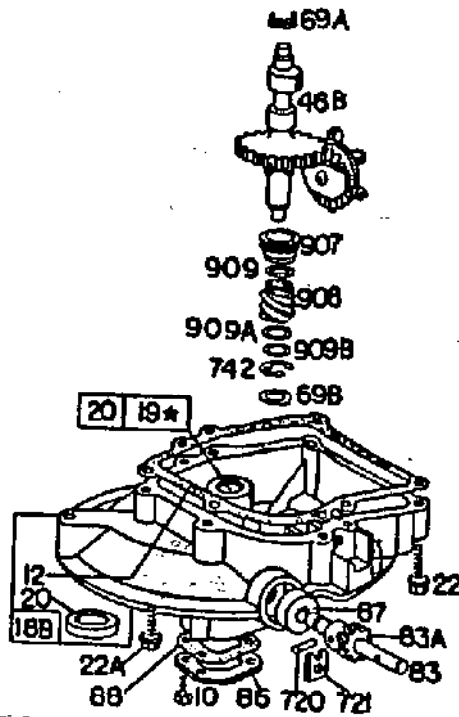
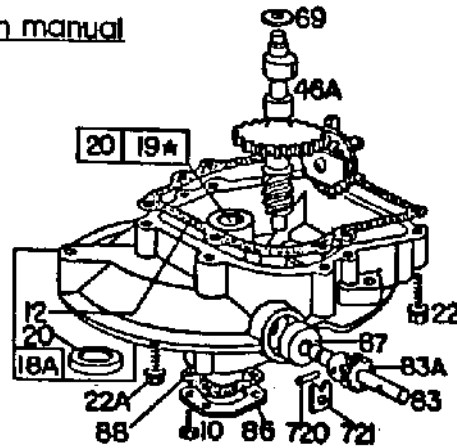
935-5000-1-52

Assemblies include all parts shown in frames.

Sump assemblies illustrated on this page do NOT include an oil filler opening.



★ Special tools required to install.  
See repair instruction manual

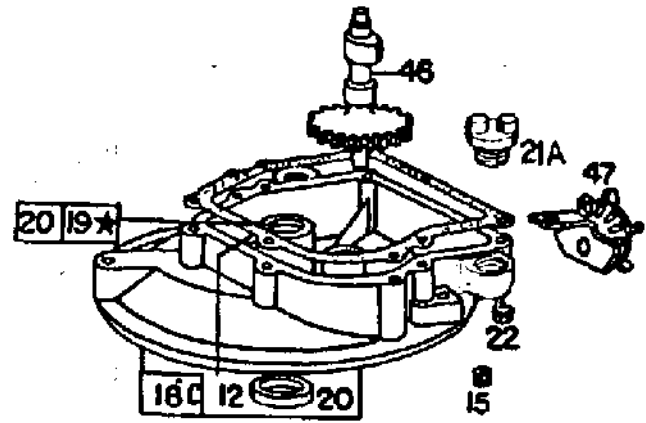
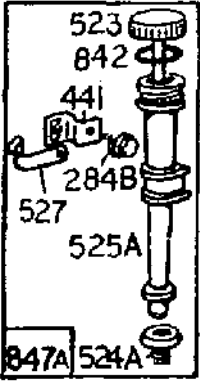


935-5000-2-52

Assemblies include all parts shown in frames.

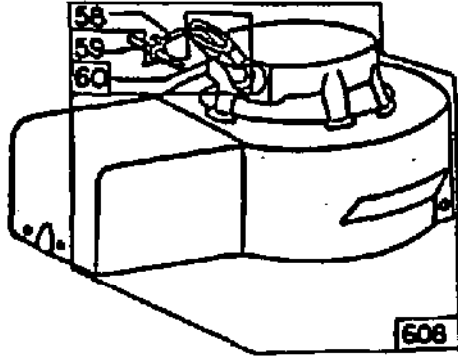
# 93500 to 93599

Sump assembly illustrated on this page includes an oil filler opening.



★NOTE-SPECIAL TOOLS REQUIRED FOR INSTALLING

935-5000-3-52 SEE REPAIR INSTRUCTION MANUAL



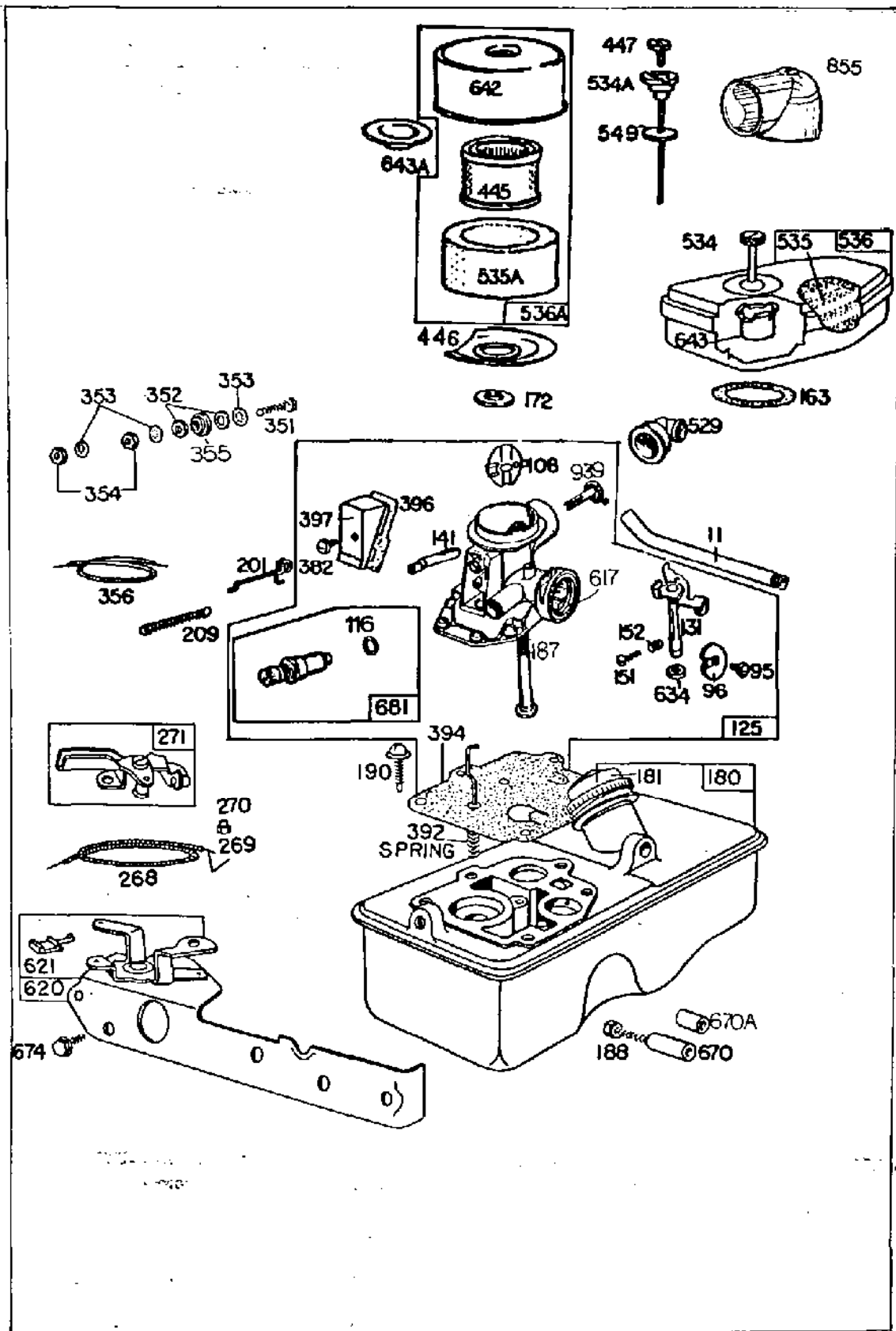
This Chart Applies to Engines That Were Originally Equipped With Rewind Starters.

o'clock position	REWIND STARTER WITH BAND BRAKE	REWIND STARTER WITHOUT BAND BRAKE	ELECTRIC STARTER WITH BAND BRAKE	ELECTRIC STARTER WITHOUT BAND BRAKE
1:30	—	395240 (48)	395311	—
6	—	—	395231	—
9	394928	—	—	—
12	395576	—	—	—

935-5000-7-52 (48) Designates Rope Length of 48-5/8"

Assemblies include all parts shown in frames.

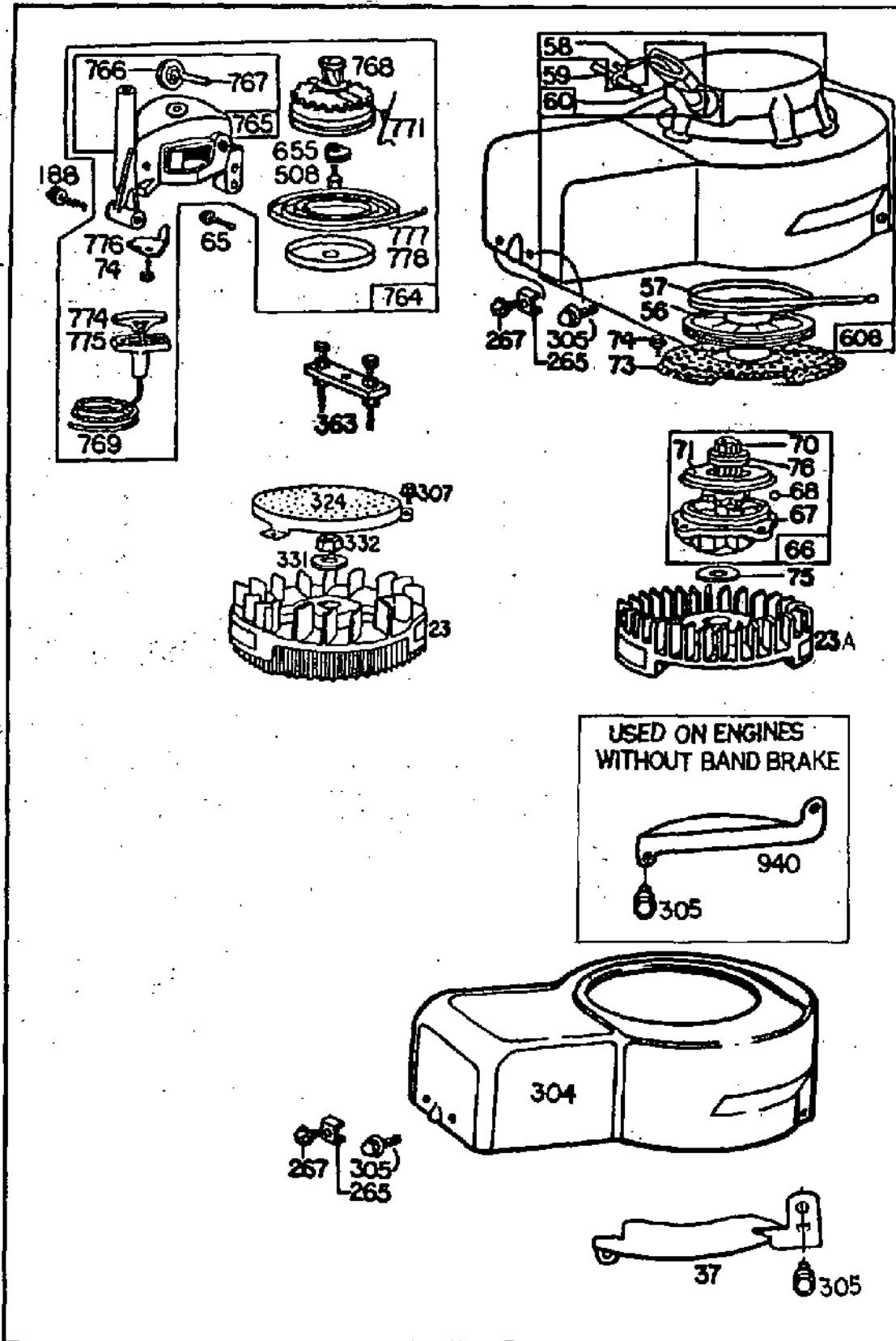
93500 to 93599



935-5000-4-52

Assemblies include all parts shown in frames.

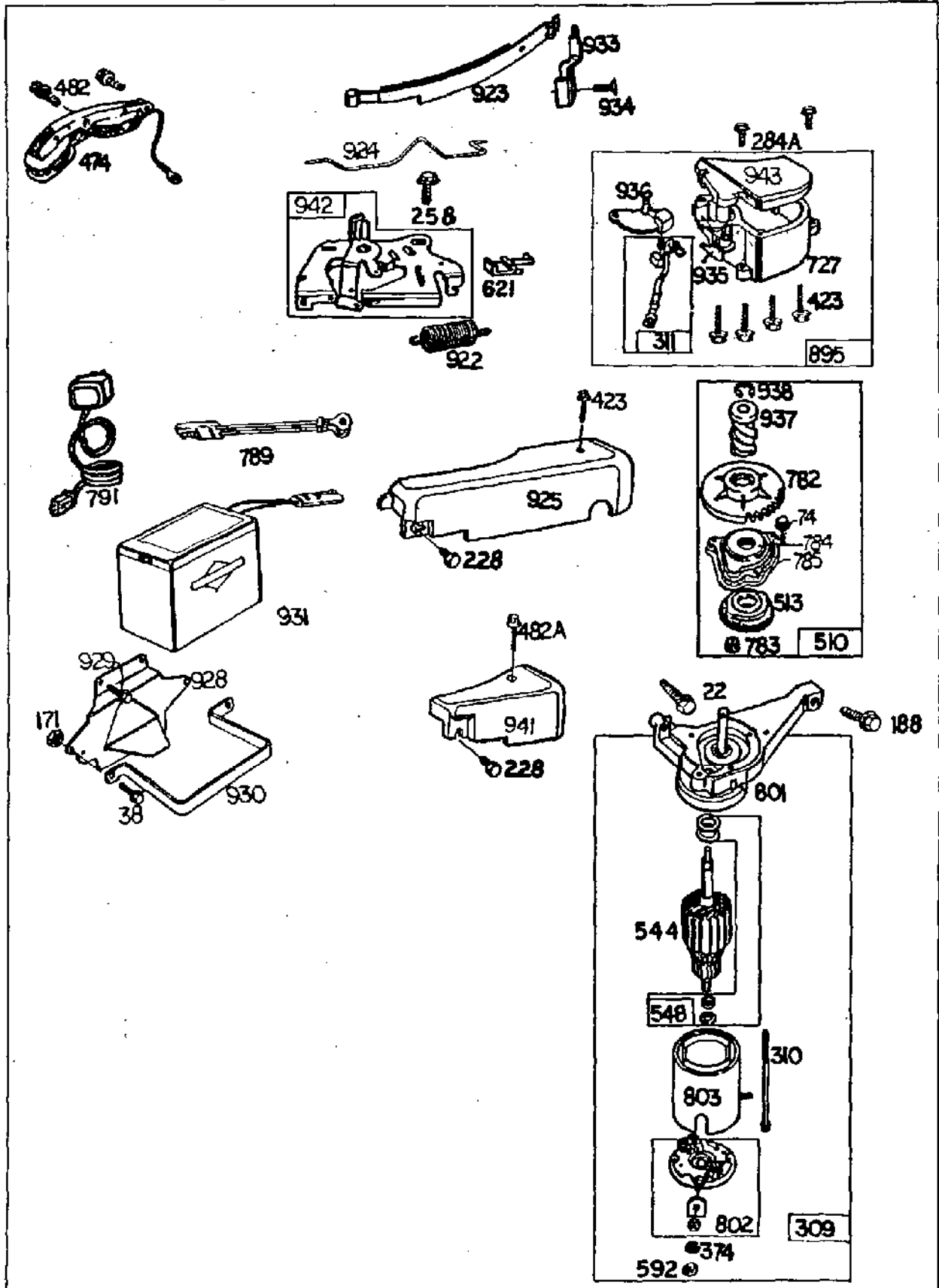
# 93500 to 93599



935-5000-5-52

Assemblies include all parts shown in frames.

93500 to 93599



935-5000-6-52

Assemblies include all parts shown in frames.

# 93500 to 93599

REF. NO.	PART NO.	DESCRIPTION	REF. NO.	PART NO.	DESCRIPTION	REF. NO.	PART NO.	DESCRIPTION
1	395373	Cylinder Assembly.		260911	Crankshaft	21A	66768	Plug—Oil Filler
2	293708	Bushing—Cylinder		Used on Type Nos.				(Used with Engine
	<b>Note:</b>	Requires special tools		5108, 5110, 5115,				Bases Which Have
		for installation		5116, 5117, 5118,				An Oil Fill Boss)
3	299819	Seal—Oil		5119, 5141, 5153,		22	93032	Screw—Sump
5	211479	Head—Cylinder		5154, 5157, 5160,		22A	93415	Screw—Sump Mtg. Sump
7	*270341	Gasket—Cylinder Head		5163, 5169, 5174,				(One used in Auxiliary
8	298383	Breather—Valve		5175, 5176, 5177,				Drive Gear Sump) on
		Chamber		5179, 5195, 5204,				Model 93580 to 93599
9	*270239	Gasket—Valve Cover		5205, 5209, 5214,				Series.
10	93394	Screw—Breather and		5219, 5220.			<b>Note:</b>	Use 93032 Screw in
		P.T.O. Gear Sump		260912 Crankshaft				the other (5) Sump
		Cover Mtg. Sem		Used on Type Nos.				Mounting Holes.
		(Ref. No. 86)		5149, 5181, 5201,				Use (4) 93032 Screws
11	231272	Tube—Breather		5206.				with (1) Ref. 914 Screw
12	*270833	Gasket—Crankcase—		261293 Crankshaft		23	395578	Flywheel—Magneto
		.015" thick (Standard)		Used on Type No.				<b>Note:</b> 394848 Flywheel—
	*270895	Gasket—Crankcase—		5142.				Magneto
		.005" thick		261417 Crankshaft				Used on Type No.
	*270896	Gasket—Crankcase—		Used on Type No.				5109.
		.009" thick		5213.				394032 Flywheel—
13	93111	Screw—Cylinder Head		<b>The Following</b>				Magneto
		(1-15/16" long)		<b>Engine Bases</b>				(Vert. Pull Only)
15	93418	Plug—Oil Drain		<b>Do Not Have An</b>				Used on Type Nos.
		(Socket Head)		<b>Oil Filler Boss</b>				5136, 5144.
18	260124	Crankshaft	18	395384	Sump—Oil			394066 Flywheel—
	<b>Note:</b>	260096 Crankshaft		<b>Note:</b>	395385 Sump—Oil			Magneto (Heavy)
		Used on Type Nos.			Used on Type Nos.			Used on Type Nos.
		5112, 5130, 5133,			5130, 5131, 5138,			5130, 5131, 5137,
		5137, 5138, 5139,			5140, 5150, 5151,			5138, 5140, 5150,
		5140, 5144, 5145,			5170, 5173.			5151, 5170, 5171,
		5147, 5155, 5158,		18A	395390	Sump—Oil		5172, 5173, 5174,
		5170, 5171, 5172,			Used on Model 93580			5175, 5176, 5177.
		5173, 5184, 5185,			to 93589 Series.			23A
		5193, 5197, 5199,			<b>Note:</b> 395391 Sump—Oil			395853 Flywheel—Magneto
		5200, 5207.			Used on Type Nos.			24
		260097 Crankshaft			5174, 5177.			222698 Key—Flywheel
		Used on Type Nos.			18B	395392	Sump—Oil	25
		5113, 5169.			(For Clutch)			298904 Piston Assy.—Standard
		260098 Crankshaft			<b>The Following</b>			298905 Piston Assy.—
		Used on Type Nos.			<b>Engine Base</b>			.010" O.S.
		5114, 5131, 5135,			<b>Has An Oil</b>			298906 Piston Assy.—
		5136, 5146, 5164,			<b>Filler Boss</b>			.020" O.S.
		5192, 5216.			18C	394157	Sump—Oil	298907 Piston Assy.—
		260370 Crankshaft			19	293709	Bushing—Oil Sump	.030" O.S.
		Used on Type Nos.			<b>Note:</b>			<b>PISTON RING SETS:</b>
		5167, 5168.			Requires Special Tool			<b>Note:</b> For Chrome Piston
		260319 Crankshaft			for Installation			Ring Set—Standard
		Used on Type Nos.			20	391483	Seal—Oil	Size—Order Part No.
		5150, 5151.			20A	280266	Seal—Oil	299742.
					21	280381	Gage—Oil Plug	26
								298982 Ring Set—Standard
								Piston
								298983 Ring Set—.010" O.S.
								Piston

\*Included in Gasket Set—  
Part No. 298989.



## 93500 to 93599

REF. NO.	PART NO.	DESCRIPTION	REF. NO.	PART NO.	DESCRIPTION	REF. NO.	PART NO.	DESCRIPTION
	298984	Ring Set—.020" O.S. Piston	46A	398197	Cam Gear, Worm and Oil Slinger Assembly	71	221653	Washer—Clutch Retainer
	298985	Ring Set—.030" O.S. Piston		<b>Note:</b> 395317	Cam Gear Worm and Oil Slinger Assy. (Counterclockwise) Used on Type Nos. 5110, 5116, 5141, 5154, 5157, 5160, 5169, 5174, 5175, 5176, 5177, 5179, 5195, 5201, 5204, 5205, 5206, 5220.	73	221661	Screen—Starter Pulley
27	26026	Lock—Piston Pin				74	†93490	Screw—Sem
28	298909	Pin Assembly—Piston—Standard				75	223047	Washer—Spring
	298908	Pin Assembly—Piston—.005" O.S.					<b>Note:</b> 220865	Washer—Spring Used with Heavy Flywheel
29	294201	Rod Assy.—Connecting				76	68238	Washer—Ratchet Sealing
	<b>Note:</b>	For Connecting Rod with .020" Undersize Crankpin Bore—Order No. 296079.	46B	395334	Cam Gear and Oil Slinger Assembly (For Clutch)	81	223256	Lock—Muffler Screw
31	222282	Washer—Conn. Rod (One for Each Screw)	47	294652	Oil Slinger Gear and Bracket	83	230831	Shaft—Drive
32	92296	Screw—Connecting Rod	52	*270345	Gasket—Intake Elbow		<b>Note:</b> 230921	Shaft—Drive Used on Type Nos. 5154.
33	296676	Valve—Exhaust	54	93485	Screw—Intake Elbow Mounting		230948	Shaft—Drive Used on Type Nos. 5169, 5181, 5206.
	<b>Note:</b>	260442 Valve—Exhaust Used on Type No. 5180.	56	280117	Pulley—Rewind Starter		230952	Shaft—Drive Used on Type Nos. 5141, 5160, 5204, 5209.
		260443 Valve—Exhaust Used on Type No. 5156.	57	294303	Spring—Rewind Starter		231213	Shaft—Drive Used on Type Nos. 5163, 5214.
34	296677	Valve—Intake		<b>Note:</b>	If longer rope is needed, Order No. 280399 (99") and cut to required length. Order 66734 for 48-5/8" rope.	83A	231278	Gear—Drive
35	280552	Spring—Intake Valve	59	230228	Pin—Starter Rope		<b>Note:</b> 231279	Gear—Drive Used on Type Nos. 5110, 5116, 5117, 5119, 5141, 5149, 5154, 5157, 5160, 5169, 5174, 5175, 5176, 5177, 5179, 5195, 5201, 5204, 5205, 5206, 5209, 5220.
36	26478	Spring—Exhaust Valve	60	393152	Grip—Starter Rope	86	221780	Cover—Sump
	<b>Note:</b>	26826 Spring—Exhaust Valve Used on Type Nos. 5156, 5180.	65	93587	Screw—Vertical Pull Starter Mounting	87	391484	Seal—Oil
37	223150	Guard—Flywheel	66	394558	Clutch Assy.—Rewind Starter	88	*270328	Gasket—Sump Cover
38	93777	Screw—Battery Bracket	67	394897	Housing—Starter Clutch	95	93499	Screw—Throttle Valve Mounting Sem
40	93312	Retainer—Valve Spring Used with valves with groove in stem.	68	63770	Ball—Clutch	96	211203	Valve—Throttle
	<b>Note:</b>	292259 Rotocap—Exhaust Valve	69	66718	Washer—Thrust	108	280370	Valve—Choke
		230126 Pin—Exhaust Valve Rotocap Retainer		<b>Note:</b>	68938 Washer—Thrust (13/16" O.D. x 17/32" I.D.) Used on counterclockwise rotation Auxiliary Drive P.T.O. Camshaft and is located next to the Worm Gear.	116	280203	Seal—O-Ring
		230127 Retainer—Exhaust Valve Rotocap Used on Type Nos. 5156, 5180.				125	395375	Carburetor Assembly
45	230173	Tappet—Valve	69A	223225	Washer—Clip	131	394588	Shaft and Lever Throttle
46	394800	Gear—Cam	69B	223228	Washer—Thrust	141	68908	Shaft—Choke
			70	298436	Ratchet—Rewind and Wind-up Starter	151	93524	Screw—Machine, Rd. Hd.—5-40 x 1/2"
						152	260746	Spring—Throttle Adj.

\*Included in Gasket Set—Part No. 298989.

†Included in Starter Drive Kit—Part No. 395727.

# 93500 to 93599

REF. NO.	PART NO.	DESCRIPTION	REF. NO.	PART NO.	DESCRIPTION	REF. NO.	PART NO.	DESCRIPTION
163	271139	Gasket—Air Cleaner Mounting		261060	Spring—Governor	270	63426	Locknut—Control Wire Casing
171	93203	Nut—5/16-18			For 3100 to 3300 RPM	271	290568	Lever Assy.—Control
172	271077	Gasket—Air Cleaner			Top Speed Set—No Load	284	93984	Screw—Clamp Mtg.
180	393113	Tank Assembly—Fuel			Used on Type Nos. 5143, 5144, 5150, 5151, 5155, 5167, 5193, 5196, 5201, 5202, 5207, 5211.	284A	93892	Screw—Cover To Starter Motor
181	298425	Cap—Fuel Tank			261105 Spring—Governor	284B	93572	Screw—Clamp Mtg.
187	393001	Pipe—Fuel			For 3000 to 3200 RPM	300	298830	Muffler—Exhaust
188	93585	Screw—Fuel Tank and Starter Mounting			Used on Type Nos. 5132, 5133, 5145, 5146, 5149, 5152, 5153, 5179, 5181, 5182, 5184, 5194, 5205, 5206, 5217, 5218, 5219, 5220.		Note:	394569 Muffler—Exhaust
190	93440	Screw—Fuel Tank Mounting Sem			261106 Spring—Governor			Used on Type Nos. 5130, 5131, 5142, 5143, 5144, 5156, 5162, 5163, 5167, 5168, 5180, 5188, 5200, 5211, 5212, 5213, 5214.
200	68388	Blade—Governor			For 2800 to 3000 RPM	300A	394644	Muffler—Exhaust
201	261027	Link—Governor			Used on Type Nos. 5139, 5140, 5141, 5165, 5169, 5204.		Note:	393400 Muffler—Exhaust
209	260875	Spring—Governor For 3400 to 3600 RPM Top Speed Set—No Load			261419 Spring—Governor			Used on Type No. 5185.
		Note: 260876 Spring—Governor (For 3900 to 4100 RPM Top Speed Set—No Load) Used on Type No. 5200.			For 2500 to 2700 RPM	304		Housing—Blower
		260877 Spring—Governor (For 3200 to 3400 RPM Top Speed Set—No Load) Used on Type Nos. 5156, 5180, 5185, 5190, 5212.			Used on Type Nos. 5142, 5213.			For Blower Housing With Rewind Starter, See Ref. No. 608.
		261034 Spring—Governor For 2900 to 3100 RPM Top Speed Set—No Load	217	261520	Spring—Return (Clutch Lever)			Note: 223132 Housing—Blower
		Used on Type Nos. 5130, 5131, 5134, 5135, 5136, 5137, 5138, 5154, 5157, 5158, 5159, 5160, 5162, 5163, 5166, 5170, 5171, 5172, 5173, 5174, 5175, 5176, 5177, 5192, 5209, 5214, 5215, 5216.	228	93490	Screw—Hex. Hd.			Used on Model 93507, and 93587 Series, and Type No. 5109.
			258	94018	Screw—Sem			223168 Housing—Blower
			265	22372	Clamp—Casing			Used on Type Nos. 5130, 5131, 5136, 5137, 5138, 5150, 5172, 5173, 5176, 5177.
			267	93469	Screw—Clamp Mtg.			394249 Housing—Blower
			268	66986	Casing—Control Wire—48" long			Used on Type No. 5144.
					Note: If longer casing is needed, specify length in inches; if a shorter casing is needed, Order No. 66986 and cut to required length.	305	93559	Screw—Blower Housing Mounting Sem
			269	26099	Wire—Control, 54" long	306	221805	Shield—Cylinder
					Note: If longer wire is needed, specify length in inches; if shorter wire is needed, Order No. 26099 and cut to required length.	307	93490	Screw—Cylinder Shield and Rotating Screen Mounting Sem
						309	395852	Motor—Starter (6 Volt)
							Note:	396384 Motor—Starter (6 Volt)
								Used before Code No. 82040100.
						310	94051	Bolt—Starter Motor
						311	395728	Brush Kit—Starter Motor

# 93500 to 93599

REF. NO.	PART NO.	DESCRIPTION	REF. NO.	PART NO.	DESCRIPTION	REF. NO.	PART NO.	DESCRIPTION
319	395488	Armature Assy. (Less Trigger Coil)	446	222844	Base—Air Cleaner	670	94038	Spacer—Fuel Tank (23/32" long) (Used with Band Brake)
324	223006	Screen—Rotating	447	93817	Screw—Cover Mtg.			
331	223047	Washer—Flywheel <b>Note:</b> 220865 Washer— Flywheel Used with Heavy Flywheel.	474	394529	Stator—Alternator	670A	94047	Spacer—Fuel Tank (13/16" Long)
332	92284	Nut—Flywheel	482	94016	Screw—Hex. Hd.	674	93158	Screw—Tank to Bracket
333	395489	Armature—Magneto	482A	93621	Screw—Hex. Hd.	676	393755	Deflector—Muffler (Side Outlet) <b>Note:</b> 393760 Deflector— Exhaust <b>Uses:</b> 93705 Screw—Muffler Used on Type Nos. 5142, 5143, 5144, 5156, 5168, 5200, 5202, 5211, 5212.
334	93381	Screw—Armature Mounting Sem	508	93158	Screw—Sem	676A	393756	Deflector—Exhaust (Side Outlet)
335	93435	Screw—Armature and Governor Blade Mounting Sem	510	395727	Drive Kit— Starter	677	93606	Screw—Muffler Deflector
337	298809	Plug—Spark 1-1/2" High— (37-42 MM) <b>Note:</b> 293918 Plug—Spark 1-1/2" High— (37 MM) (Resistor Type)	513	†394815	Clutch Assembly— Electric Starter	677A	93705	Screw—Muffler Deflector
351	93735	Screw—Terminal	523	396372	Cap with Dipstick— Oil Filler	681	395508	Needle Valve Kit
352	66068	Washer—Insulating	524	271485	Seal—Filler Tube	720	93474	Pin—Gear to Shaft
353	92791	Washer—Lock— Shakeproof (3)	524A	68838	Seal—Filler Tube	721	221779	Stop—Drive Shaft
354	90576	Nut—Hex.—8-32 (2)	525	280382	Tube—Oil Filler	722	280336	Base—Electric Starter Cover
355	66554	Collar—Insulating	525A	280131	Tube—Oil Filler	742	93525	Ring—Retaining
356	395558	Wire—Ground <b>Note:</b> 298581 Wire—Ground Used on Type No. 5144. 394826 Wire—Ground Used on Type No. 5166.	527	222548	Clamp—Oil Filler Tube	742A	93925	Ring—Retaining (Clutch Lever)
358	298989	Gasket Set	529	280368	Grommet—Breather	764	395853	Starter Assembly— Side Pull Used on Type No. 5109. <b>Note:</b> 396082 Starter Assy.— Vertical Pull Used on Type Nos. 5130, 5131, 5136, 5137, 5138, 5150, 5172, 5173, 5176, 5177.
363	19069	Puller—Flywheel (Optional Accessory)	534	93865	Screw—Air Cleaner <b>Note:</b> 93374 Screw—Air Cleaner Used on Type No. 5197.	765	395729	Housing—Side Pull Starter Used on Type No. 5109. <b>Note:</b> 299947 Housing— Vertical Pull Starter Used on Type Nos. 5130, 5131, 5136, 5137, 5138, 5150, 5172, 5173, 5176, 5177.
374	92813	Washer—Lock— Shakeproof	534A	94005	Screw—Air Cleaner (Internal)			
377	93065	Key—Woodruff No. 6	535	270579	Element—Air Cleaner			
382	93864	Screw—Choke Link Cover	535A	271466	Element—Air Cleaner			
383	89838	Wrench—Spark Plug	536	390055	Cleaner Assembly—Air			
392	261016	Spring—Diaphragm	536A	392368	Cleaner Assy.—Air			
394	299637	Diaphragm—Carburetor	544	396058	Armature—Starter			
396	270571	Gasket—Choke Link Cover	548	396067	Washer Set—Starter Motor			
397	211678	Cover—Choke Link	549	270978	Washer (Below Internal Screw Head)			
423	94026	Screw—Hex. Hd.	592	231082	Nut—Hex.—10-24			
441	222530	Bracket—Oil Fill Tube	608		Starter Assy.—Rewind <b>See Chart on Page 4.</b>			
445	392308	Cartridge—Air Cleaner	613	93935	Screw—Muffler Mtg.			
			617	270344	Seal—Intake Tube			
			620	299974	Plate—Carburetor Control			
			621	297472	Switch—Stop			
			625	298775	Tube—Fuel Intake			
			634	270167	Washer—Throttle Shaft (Felt)			
			635	66538	Elbow—Spark Plug			
			642	222626	Cover—Air Cleaner			
			643	280374	Cup—Air Cleaner			
			643A	222594	Cup—Air Cleaner			
			655	222057	Anchor—Spring			

# 93500 to 93599

REF. NO.	PART NO.	DESCRIPTION	REF. NO.	PART NO.	DESCRIPTION	REF. NO.	PART NO.	DESCRIPTION
766	280022	Pulley—Rope (Small)	785	†271457	Gasket—Electric Starter Clutch Gear Cover	908	231220	Gear—Worm
767	231048	Pin—Small Rope Pulley					Note: 231219	Gear—Worm
768	395870	Pulley and Gear Assy. Used on Type No. 5109.						Used on Type Nos. 5117, 5119, 5149, 5209.
	Note: 299948	Pulley and Gear Assembly Used on Type Nos. 5130, 5131, 5136, 5137, 5138, 5150, 5172, 5173, 5176, 5177.	789	395624	Harness Assembly—Wiring (4-1/2" long)	909	271417	Washer—Thrust
				Note: 395602	Harness Assy.—Wiring (14" long) (for Remote Mount Battery)	909A	271418	Washer—Thrust
						909B	271312	Washer—Thrust
769	65904	Rope—Vertical Pull Starter (79" long)	791	395569	Charger—Battery (120 volt)	910	394051	Lever Assy.—Clutch
	Note:	If longer rope is required, Order No. 280399 (99") and cut to required length. Order 66734 for 48-5/8" rope.		Note: 395585	Charger—Battery (240 volt)	911	223009	Control Bracket—Clutch
			801	395851	Motor Output End Cover and Mounting Bracket	914	93970	Screw—Bracket Mtg. Sem
				Note: 396387	Motor Output End Cover and Mounting Bracket Used before Code No. 82040100.	922	261647	Spring—Band Brake
771	299961	Clip—Vertical Pull Starter				923	394867	Brake Assembly—Band
774	280121	Insert—Starter Handle	802	396061	Cap Assembly—End	924	261881	Link—Starter Switch
775	280036	Grip—Starter Rope	803	396059	Housing—Starter	925	280363	Cover—Linkage
776	222049	Guide—Rope	842	270920	Seal—Oil Filler Cap	928	223162	Bracket—Battery
777	390066	Spring—Vertical Pull Starter	847	395869	Fill Group—Oil	929	93980	Screw—Sem.
778	280021	Cover—Vertical Pull Starter Cover	847A	392055	Fill Group—Oil	930	223161	Bracket Support—Battery
782	†280038	Gear—Electric Starter Spur	851	221798	Terminal—Ignition Cable	931	395559	Battery—6 Volt
783	†261606	Gear—Electric Starter Pinion	855	211982	Elbow—Air Cleaner Adaptor	933	223187	Pivot—Band Brake
784	†223132	Cover—Electric Starter Clutch Gear	869	210879	Seat—Intake Valve (Standard)	934	94037	Screw—Band Brake Pivot
			870	211291	Seat—Exhaust Valve (Standard)	935	223128	Terminal—Switch
			871	63709	Guide—Exhaust Valve	936	280338	Actuator—Switch
			895	394767	Switch and Cover Assembly—Starter	937	†280366	Spline—Starter
			897	394970	Trigger Coil	938	†93941	Ring—Retaining
			907	394871	Sleeve Assy.—Clutch	939	394929	Shaft Assembly—Choke
						940	222403	Guard—Flywheel
						941	280395	Cover—Linkage
						942	395393	Plate—Band Brake Control
						943	280322	Top—Electric Starter Cover