

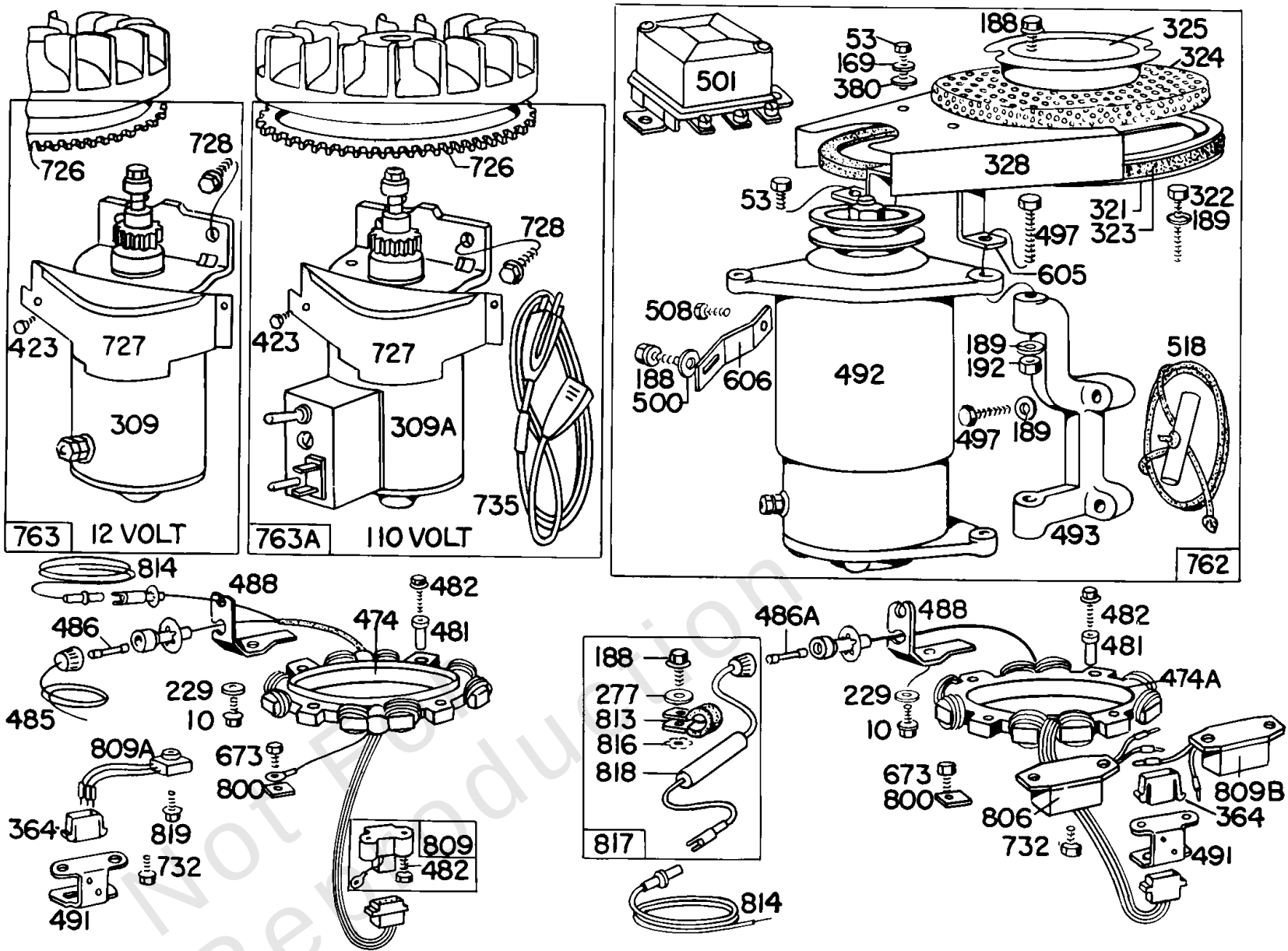


Parts Manual

Mfg. No: 146702-0634-99

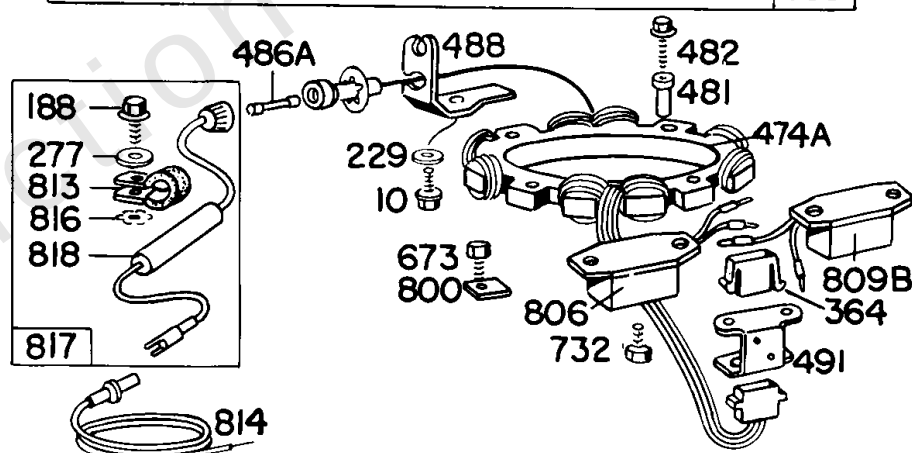
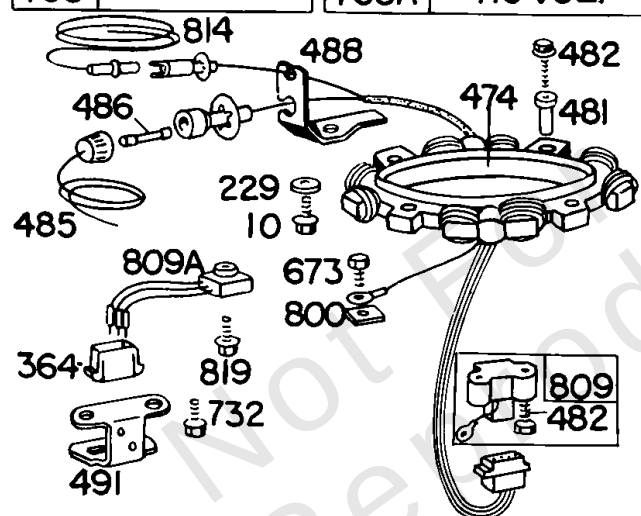
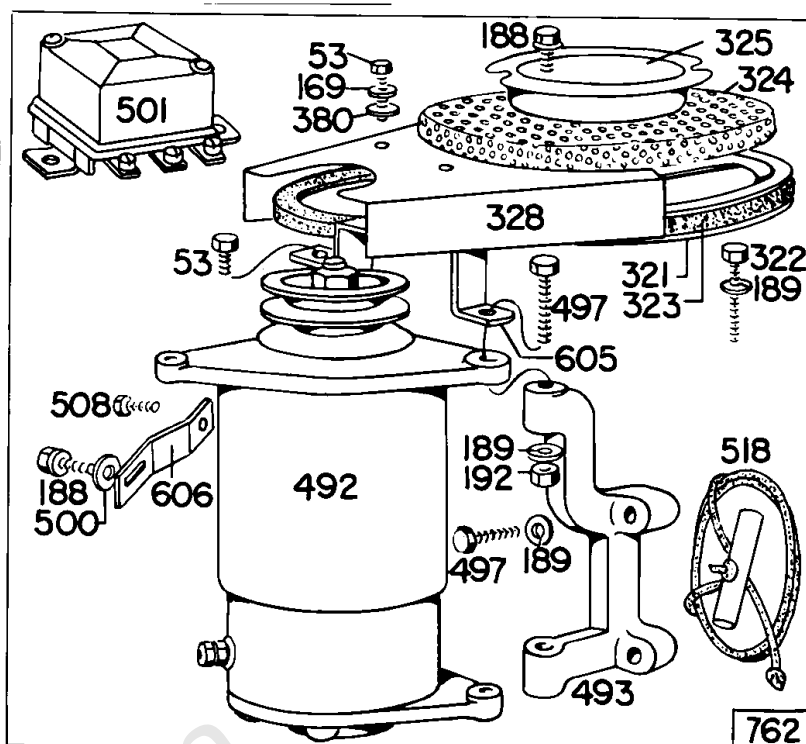
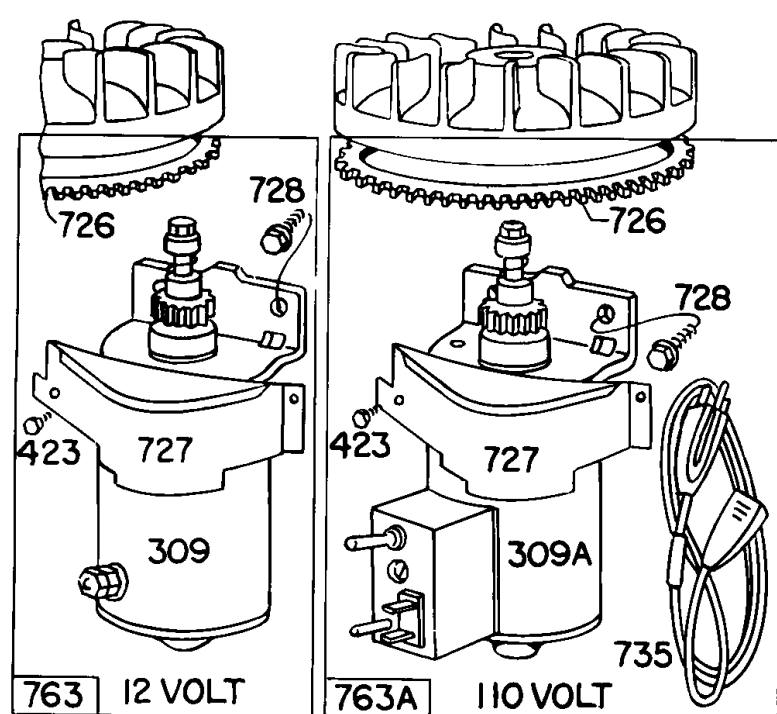
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Not For
Reproduction



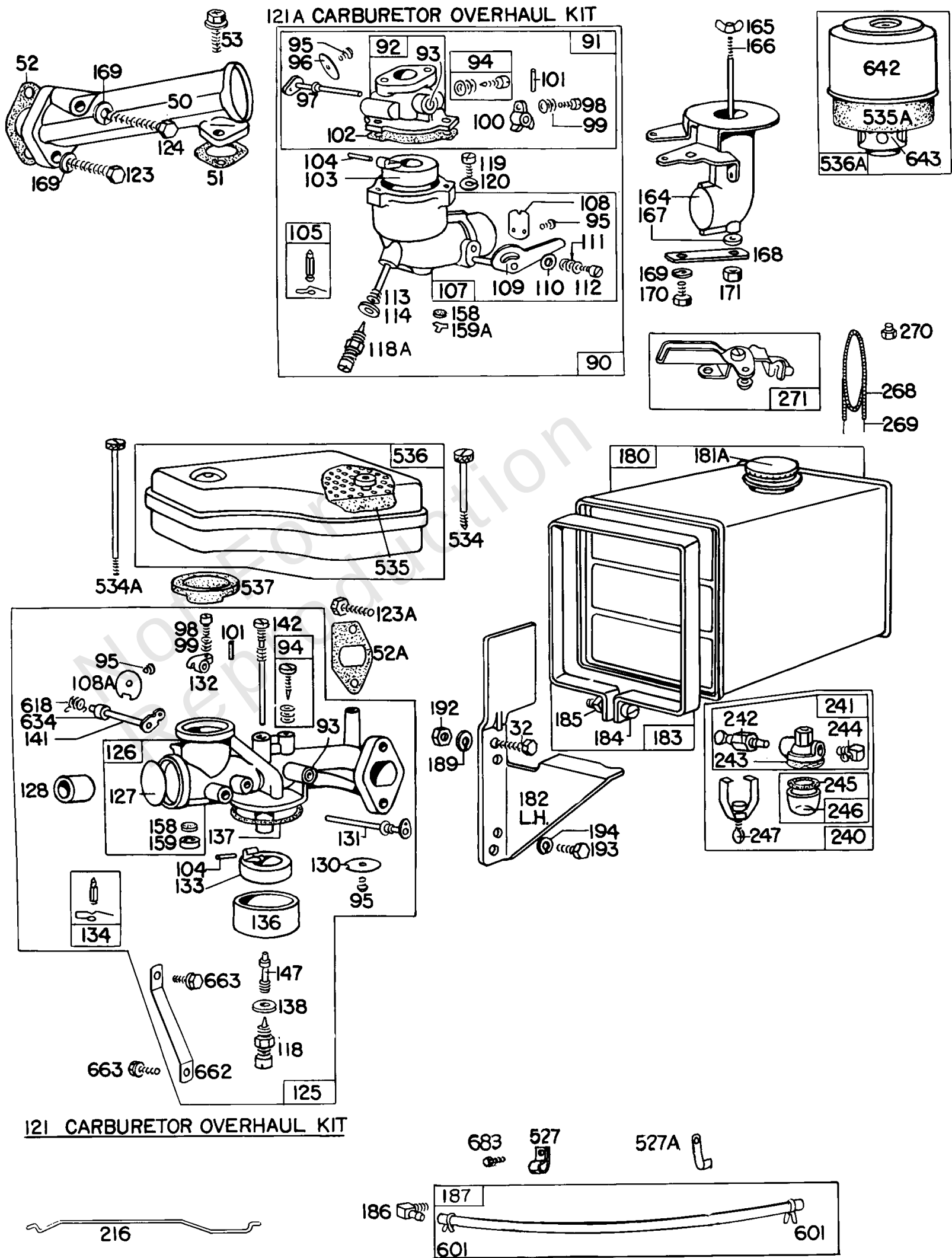
(3) Electric Starters, Elect.

REF NO	PART NO	QTY	DESCRIPTION
10	93536		SCREW
53	93128		SCREW
169	90832		SCREW -(Blower Housing)
188	93535		SCREW -(5/16-18 X 3/4)
189	90366		WASHER
192	91397		NUT -(5/16-18)
229	220680		WASHER
277	22776		WASHER
309A	299330		MOTOR, Starter -(Mitsubishi and American Bosch 12V)
309	299329		MOTOR, Starter -(Mitsubishi and American Bosch 110V)
309	299329		MOTOR, Starter -(Mitsubishi and American Bosch 110V) Uses #392247 Switch Shield Assembly
309	299330		MOTOR, Starter -(Mitsubishi and American Bosch 12V)
309	299556		MOTOR, Starter -(American Bosch 110V)
309	299764		MOTOR, Starter -(American Bosch 110V)
309	390307		MOTOR, Starter -(Bosch or Mitsubishi)
309	390838		MOTOR, Starter -(3 1/16 Housing)
321	210899		PULLEY, Starter
322	90931		SCREW
323	68588		BELT, Vee
324	221067		SCREEN, Rotating
325	299307		PULLEY, Rope Starter -(With Screen)
328	221447		GUARD, Belt
364	280081		WIRE/CONNECTOR, Alternator
380	62199		WASHER
423	93410		SCREW
474	391520		ALTERNATOR -(Diode Type)
481	230976		BUSHING, Alternator
482	93621		SCREW -(Tapping)
485	390888		CAP, Wire/Fuse
486	67125		FUSE -(7 1/2 Amp)
488	222211		BRACKET, Mounting
491	222115		BRACKET, Mounting
492	390555		MOTOR, Starter -(12v Delco-Remy #1101695 & Pulley #1949358) (12 volt) (Delco-Remy No. 1101695 and Pulley Delco-Remy No. 1949358)
493	211594		BRACKET, Starter Motor
497	91203		SCREW -(5/16-18 X 1-3/4)
500	91325		WASHER
501	295924		REGULATOR -(Flat Mount, Delco-remy)
508	93294		SCREW -(5/8)



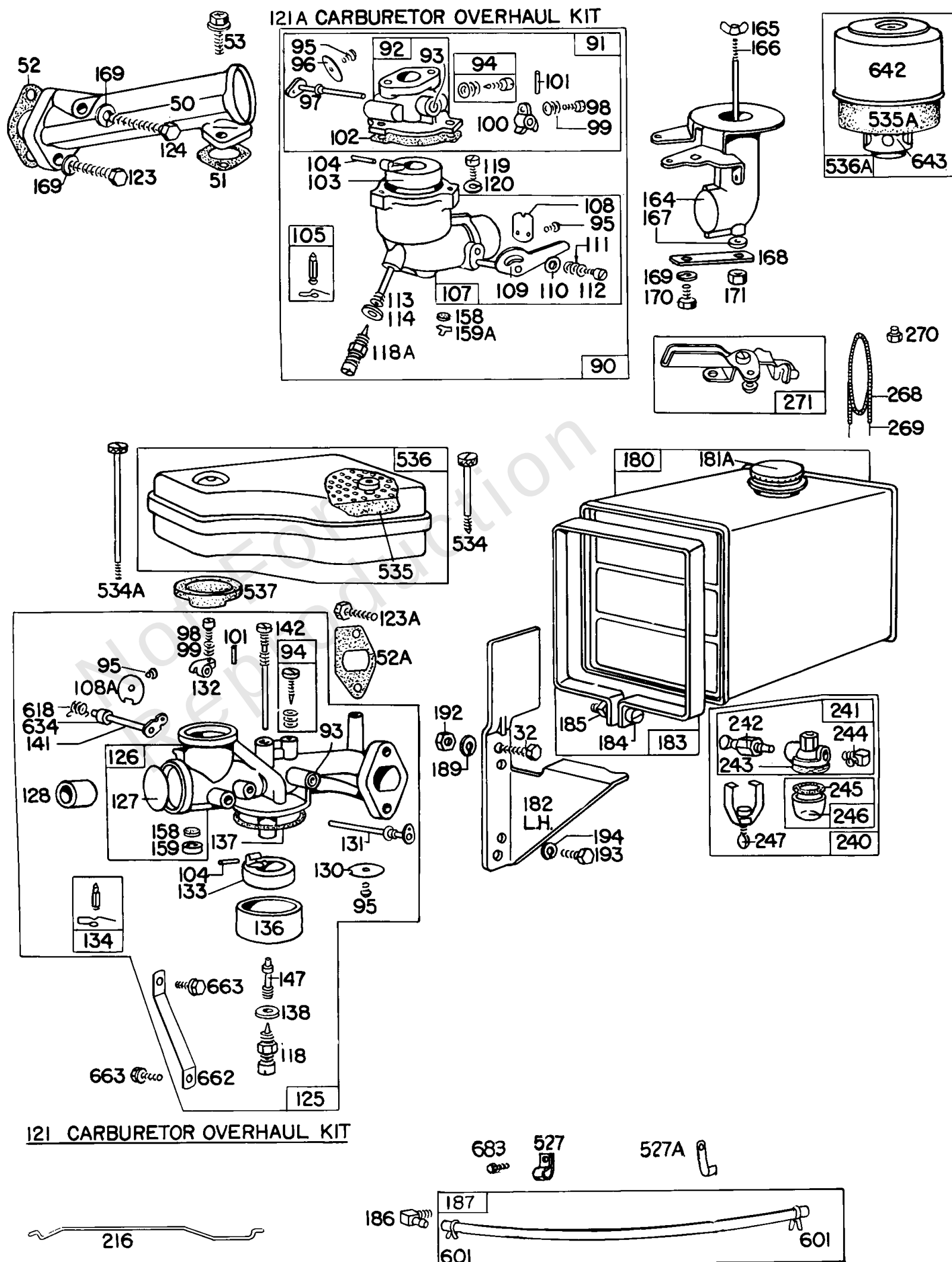
(3) Electric Starters, Elect.

REF NO	PART NO	QTY	DESCRIPTION
518	69932		GRIP, Starter Rope
605	298758		BRACKET, Mounting -(Upper)
606	221790		STRAP, Adjusting
673	93438		SCREW
726	299543		GEAR, Ring -(Steel) (Includes Mounting Hardware)
727	390233		COVER, Starter Drive
728	93523		SCREW -(5/16-18 X 11/16)
732	93490		SCREW -(Rotating Screen)
735	390748		CORD, Starter -(Canadian Use Only)
735	390966		CORD, Starter -(Includes Adaptor Plug)
762	296147		KIT, Electric Starter -(12 Volt) (High Position) Cannot be used on engines with Fuel Tank welded to Blower Housing.
763A	299914		KIT, Electric Starter -(110 Volt Gear Drive) Cannot be used on engines with Alternator or with Fuel Tank welded to Blower Housing.
763	391604		KIT, Electric Starter -(12 Volt Gear Drive) Cannot be used on engines with Fuel Tank welded to Blower Housing.
800	222212		RETAINER
806	390545		REGULATOR
809A	390692		RECTIFIER
809B	390546		RECTIFIER
809	390892		RECTIFIER
813	390611		CLAMP
814	390867		HARNESS, Alternator -(Ac Only)
816	93664		WASHER
817	390627		WIRE/CONNECTOR, Alternator -For Isolation Diode Kit for 7 Amp. Alternator-order No. 390607
818	390608		WIRE/CONNECTOR, Alternator
819	93680		SCREW



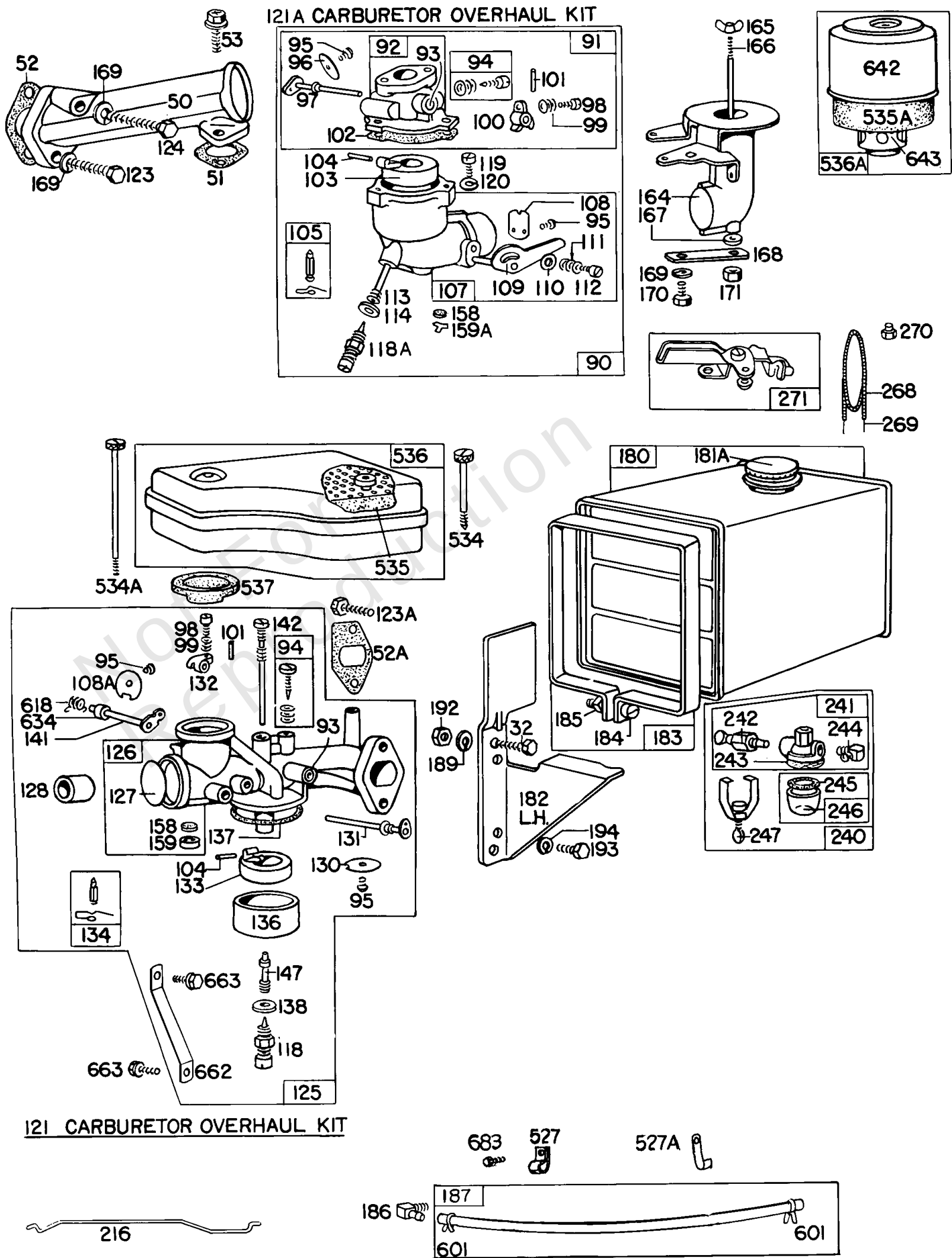
Carburetor, Fuel Parts, A/C

REF NO	PART NO	QTY	DESCRIPTION
32	92659		SCREW -(Connecting Rod)
50	295759		MANIFOLD, Intake
51	65647		GASKET, Intake -Included in Carburetor Overhaul Kit-Part No. 295938. Included in Gasket Set-Part No. 295970
52A	270538		GASKET, Intake -Included in Gasket Set-Part No. 295970
52	27828		GASKET, Intake -Included in Gasket Set-Part No. 295970
53	93128		SCREW
90	299159		CARBURETOR -(Choke-A-Matic)
91	298473		BODY, Upper Carburetor
92	299158		BODY, Upper Carburetor
93	23108		BUSHING, Throttle Shaft
94	292681		VALVE, Idle Mixture -Included in Carburetor Overhaul Kit-Part No. 295938. Included in Carburetor Overhaul Kit-Part No. 299852
95	93038		SCREW -(Throttle Valve)
96	221600		VALVE, Throttle
97	297845		SHAFT, Throttle
98	91920		SCREW -(8-32 X 5/8)
99	26157		SPRING, Compression
100	61967		STOP, Throttle
101	93043		PIN, Shaft
102	27918		GASKET, Carburetor Body -Included in Carburetor Overhaul Kit-Part No. 295938
103	99333		FLOAT, Carburetor
104	230896		PIN, Float Hinge -Included in Carburetor Overhaul Kit-Part No. 295938. Included in Carburetor Overhaul Kit-Part No. 299852
105	299096		KIT, Needle/Seat
107	299160		BODY, Lower Carburetor -(Choke-A-Matic)
108A	222010		VALVE, Choke
108	62872		VALVE, Choke
109	298944		SHAFT, Choke -(Choke-A-Matic)
110	62899		WASHER -(Thermostat)
111	26155		SPRING, Friction
112	23123		SCREW
113	390395		NOZZLE, Carburetor
114	68667		WASHER -(Viton Seat) Included in Carburetor Overhaul Kit-Part No. 295938
118A	99525		VALVE, High Speed -Included in Carburetor Overhaul Kit-Part No. 295938
118	391233		VALVE, Float Needle -Included in Carburetor Overhaul Kit-Part No. 299852
119	90746		SCREW -(10-32 X 5/8)
120	92290		WASHER
121A	295938		KIT, Carburetor Overhaul -Used only for Ref. No. 90 Carburetors



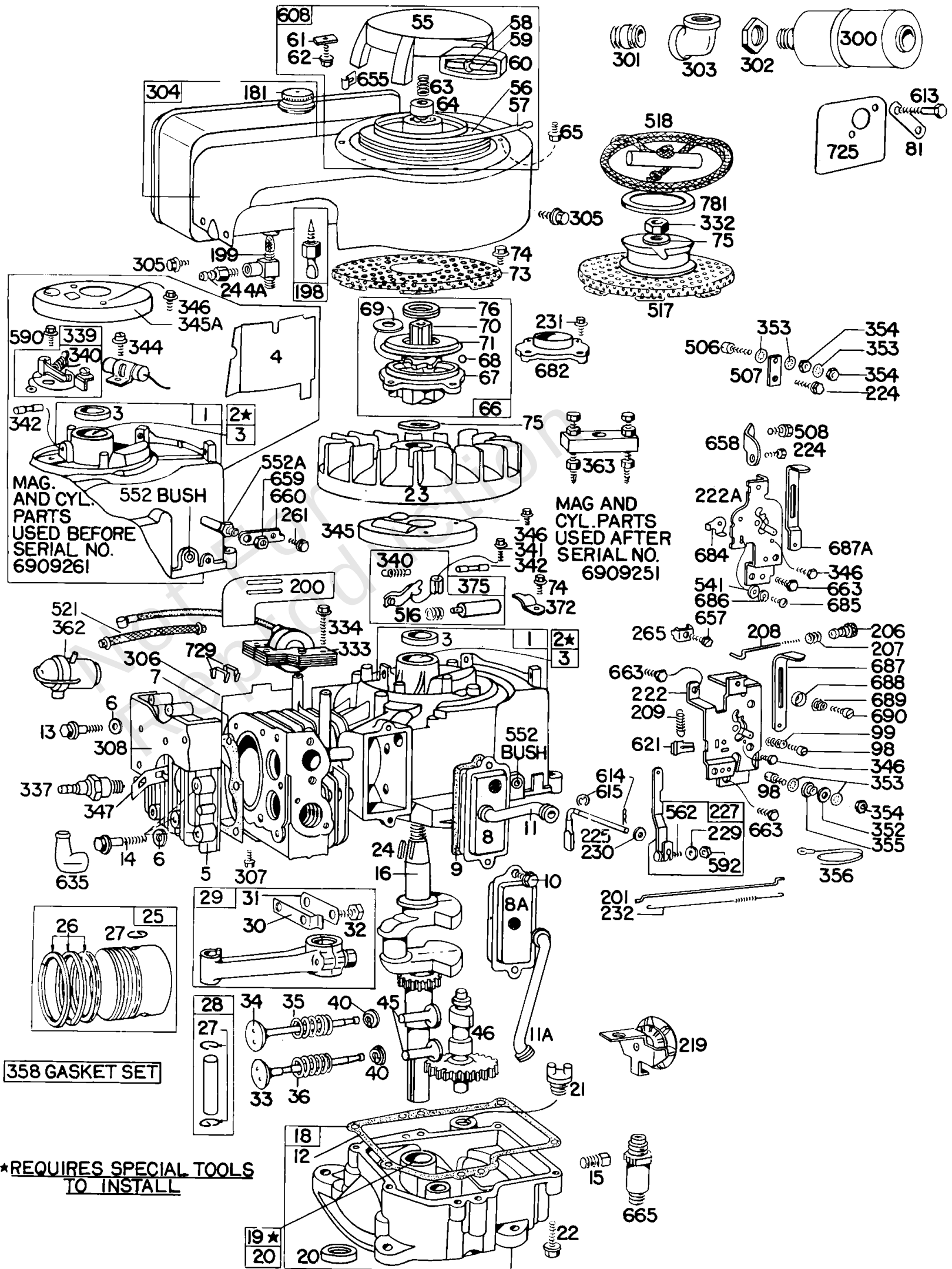
Carburetor, Fuel Parts, A/C

REF NO	PART NO	QTY	DESCRIPTION
121	299852		CARBURETOR -(Used only for Ref. No. 125 Carburetors)
123A	93357		SCREW
123	91456		SCREW
124	92636		SCREW -(1/4-20 X 2)
125	390411		CARBURETOR -(Manual Choke)
126	299851		BODY, Lower Carburetor
127	221997		PLUG, Welch -Included in Carburetor Overhaul Kit-Part No. 299852
128	211682		VENTURI, Carburetor
130	221986		VALVE, Throttle
131	299650		SHAFT, Throttle
132	211712		STOP, Throttle
133	299707		FLOAT, Carburetor
134	299096		KIT, Needle/Seat -Included in Carburetor Overhaul Kit-Part No. 299852
136	221995		BOWL, Float
137	270511		GASKET, Float Bowl -Included in Carburetor Overhaul Kit-Part No. 299852
138	222014		WASHER -(Float Bowl) Included in Carburetor Overhaul Kit-Part No. 299852
141	299647		SHAFT, Choke
142	299740		NOZZLE, Carburetor -Included in Carburetor Overhaul Kit-Part No. 299852
147	230932		SCREW -(Nozzle) Included in Carburetor Overhaul Kit-Part No. 299852
158	27590		PLUG, Carburetor Filter/Drain
159A	220521		RETAINER, Carburetor Drain
159	211954		RETAINER, Air Filter
164	298410		ELBOW, Intake
165	93456		NUT
166	230633		STUD -(Air Cleaner) (8 13/32)
167	65978		SEAL, O-Ring -(Needle Valve)
168	22832		STRAP/STUD, Air Cleaner Mounting
169	90832		SCREW -(Blower Housing)
170	91468		SCREW -(1/4-20 X 3/8)
171	92129		NUT -(1/4-28)
180	290816		TANK, Fuel -(4 Quart)
181A	69221		CAP, Fuel Tank -(1 3/4 O.D. Top)
182	221906		BRACKET, Fuel Tank
183	291367		STRAP, Fuel Tank -(4 Quart)
184	91257		SCREW -(1/4-20 X 1-1/2)
185	90970		NUT -(1/4-20)
186	67218		CONNECTOR, Hose
187	296004		LINE, Fuel -(Cut To Required Length)



Carburetor, Fuel Parts, A/C

REF NO	PART NO	QTY	DESCRIPTION
189	90366		WASHER
192	91397		NUT -(5/16-18)
193	90681		SCREW -(5/16-18 X 5/8)
194	90366		WASHER
216	260892		LINK, Choke
240	295984		CARBURETOR -(Flexible Line)
241	296005		COVER, Fuel Filter
242	295913		VALVE, Fuel Shut Off
243	22547		STRAINER, Fuel
244	230318		CONNECTOR, Hose
245	68477		GASKET, Fuel Bowl -Included in Gasket Set-Part No. 295970
246	298683		BOWL, Fuel Filter
247	99665		YOKE, Bowl
268	65616		CASING, Control Wire -(Cut To Required Length)
269	26633		WIRE, Control -(Cut To Required Length) If longer wire is required, specify length in inches; if shorter wire is needed, order No. 26633 and cut to required length.
270	63426		NUT -(Control Wire Casing)
271	290568		LEVER, Control
527A	221834		CLAMP, Tube
527	221428		CLAMP, Tube
534A	93323		SCREW -Used After Code Date 6909251
534	93330		SCREW -Used Before Code Date 6909261
534	93622		SCREW
535A	270209		FILTER, Air Cleaner Foam
535	270528		FILTER, A/C Cartridge
536A	298681		CLEANER, Air
536	299849		CLEANER, Air -Used Before Code Date 6909261
536	390379		CLEANER, Air -Used After Code Date 6909251
537	270539		GASKET, Air Cleaner -(Air Cleaner)
601	93053		CLAMP, Hose -(Green)
618	261116		SPRING, Choke Return
642	221634		COVER, Air Cleaner
643	280002		CUP, Air Cleaner
662	222027		BRACKET, Support
663	93572		SCREW -(10-32 X 3/8)
683	93067		SCREW -(3/8)



Cylinder,Sump,Control,Piston

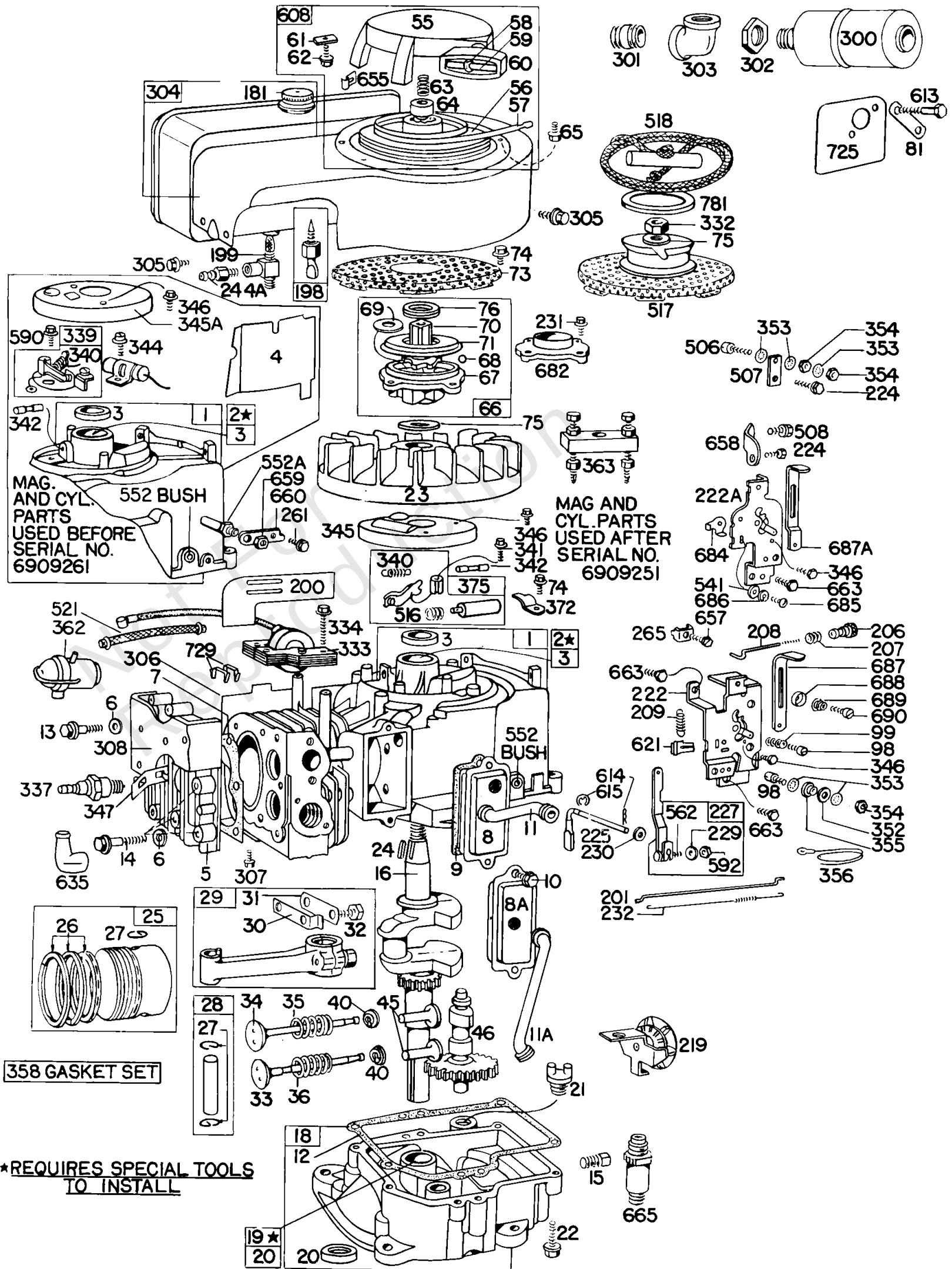
REF NO	PART NO	QTY	DESCRIPTION
1	299218		CYLINDER ASSEMBLY
2	295962		KIT, Bushing/Seal
3	294606		SEAL, Oil
4	221001		PLATE, Baffle
5	210578		HEAD, Cylinder
6	22963		WASHER
7	270340		GASKET, Cylinder Head -Included in Gasket Set-Part No. 295970
8A	294988		BREATHER ASSEMBLY
8	299848		BREATHER ASSEMBLY
9	27803		GASKET, Rocker Cover -Included in Gasket Set-Part No. 295970
10	93536		SCREW
11A	67068		TUBE, Breather -(Used with Metal Air Cleaner Pipe)
11	280005		TUBE, Breather
12	27750		GASKET, Crankcase -(1/64) Included in Gasket Set-Part No. 295970
12	27876		GASKET, Crankcase -(.005) Included in Gasket Set-Part No. 295970
12	27877		GASKET, Crankcase -(.009) Included in Gasket Set-Part No. 295970
13	93210		SCREW -(2-9/32)
14	93211		SCREW -(5/16-18 X 2-21/32)
14	93583		STUD -(Cylinder Head)
15	91084		PLUG, Oil Drain -(3/8)
16	260356		CRANKSHAFT
18	298616		SUMP, Engine
19	295963		KIT, Bushing/Seal
20	298423		SEAL, Oil
21	66768		PLUG, Oil
22	93585		SCREW -(Crankcase Cover)
23	298260		FLYWHEEL
24	61760		KEY, Flywheel -(Breaker Ignition)
25	297692		PISTON ASSEMBLY -(Standard)
25	297693		PISTON ASSEMBLY -(.010 Oversize)
25	297694		PISTON ASSEMBLY -(.020 Oversize)
25	297695		PISTON ASSEMBLY -(.030 Oversize)
26	297705		SET, Ring -(.010 Oversize)
26	297706		SET, Ring -(.020 Oversize)

Footnotes:

Uses: 26032 Ring

(For engine W/Ring Gear on FW equipped for Elec Start)

Valves with hole in stem except those with Rotocoil.



Cylinder,Sump,Control,Piston

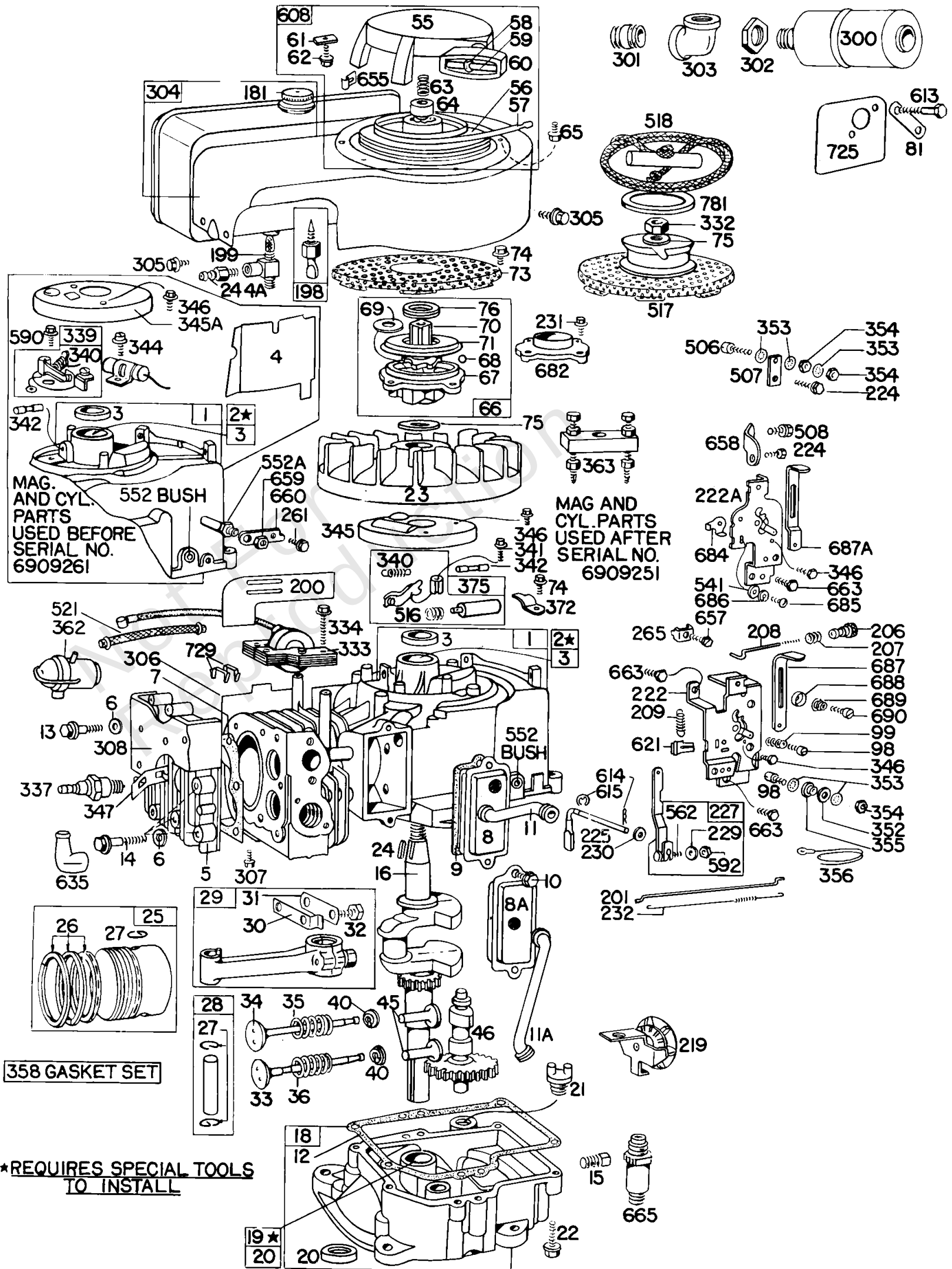
REF NO	PART NO	QTY	DESCRIPTION
26	297707		SET, Ring -(.030 Oversize)
26	297815		SET, Ring -(Standard)
26	298745		SET, Ring -(Standard)
27	68546		LOCK, Piston Pin
28	295840		PIN, Piston -(Standard)
28	295841		PIN, Piston -(.005 Oversize)
29	295839		ROD, Connecting -For Connecting Rod with .020 undersize Crankpin Bore-order No. 298788
30	221725		DIPPER, Connecting Rod
31	220811		LOCK, Rod Screw
32	92659		SCREW -(Connecting Rod)
33	299885		VALVE, Exhaust -(Grooved Stem-Includes Retainer) -Used After Code Date 6711030
34	261055		VALVE, Intake -Used After Code Date 6909251
34	299884		VALVE, Intake -(Grooved Stem-Includes Retainer) -Used Before Code Date 6909261
35	65906		SPRING, Valve -(Intake)
36	65906		SPRING, Valve -(Intake)
40	221596		RETAINER, Valve -(Valves With Groove In Stem) -Used After Code Date 6711030
40	230476		PIN, Retainer -Used Before Code Date 6711060
40	230477		RETAINER, Valve
40	230570		PIN, Retainer
40	292260		RETAINER, Valve -(Exhaust Valve) (Exhaust)
45	260933		TAPPET, Valve
46	210728		CAMSHAFT
55	295272		HOUSING, Rewind Starter -(Casting) (Metal Pulley)
56	295871		PULLEY, Starter -(63 Rope) If longer rope is required, order rope No. 66894 and cut to length.
57	294303		SPRING, Rewind Starter
58	66564		ROPE, Starter -(63 Rope) if longer rope is required, order No. 66574 and cut to length.
58	66884		ROPE, Starter -(Cut To Required Length) If longer rope is required, order No. 66894 and cut to length.
59	230228		PIN, Starter Grip
60	66728		GRIP, Starter Rope
61	68848		BUMPER, Starter Pulley
62	93254		SCREW -(Pulley)

Footnotes:

Uses: 26032 Ring

(For engine W/Ring Gear on FW equipped for Elec Start)

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Cylinder,Sump,Control,Piston

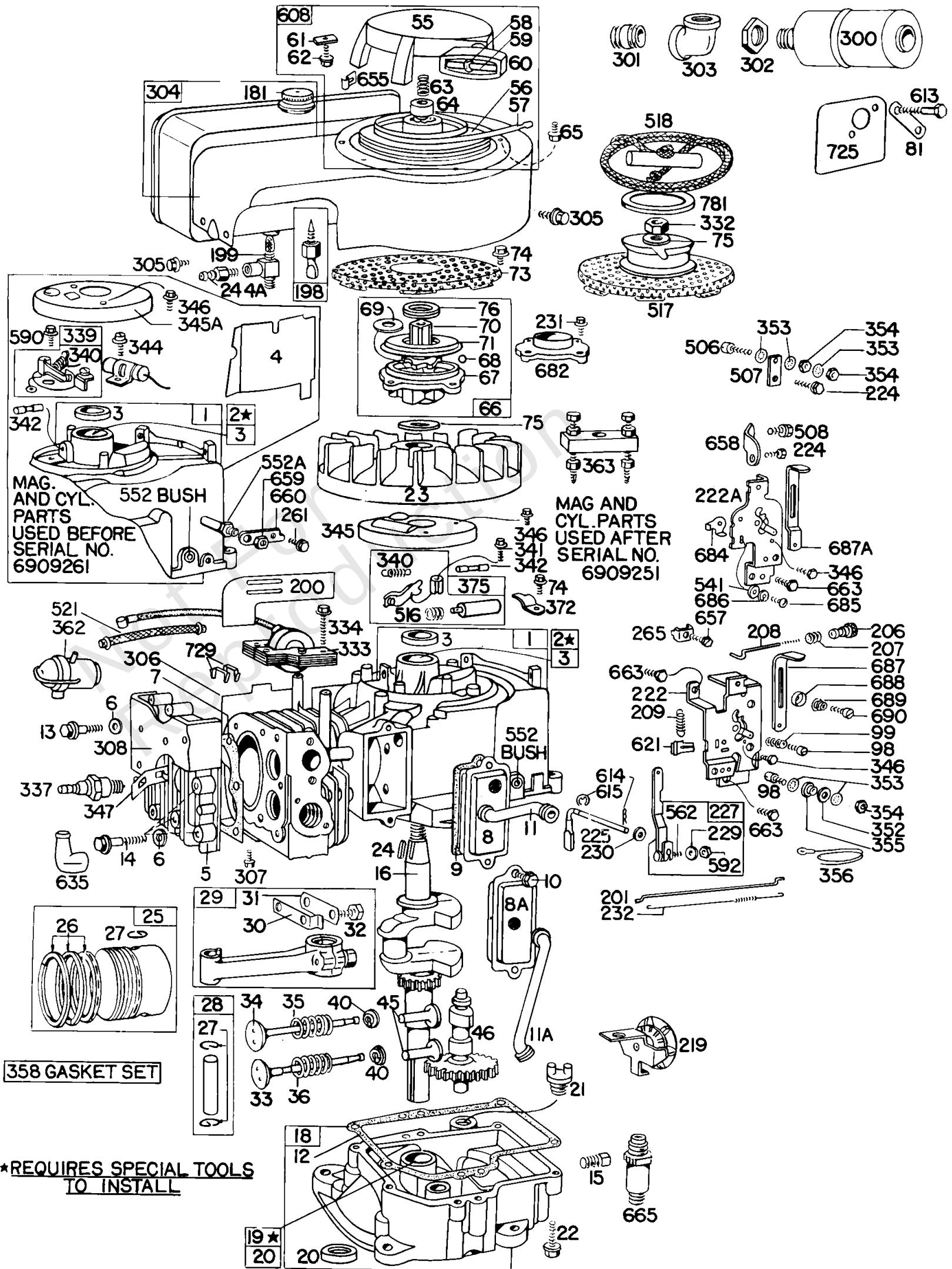
REF NO	PART NO	QTY	DESCRIPTION
63	260414		SPRING, Ratchet
64	230543		ADAPTER, Ratchet Spring
65	230796		NUT
65	92290		WASHER
65	93163		SCREW -Used Before Code Date 6905011
65	93420		SCREW -(3/4)
65	93572		SCREW -(10-32 X 3/8) -Used After Code Date 6904301
66	295684		CLUTCH, Starter -(Rewind Starter) -Used Before Code Date 6601181
66	298798		CLUTCH, Starter -(Rewind Starter) -Used After Code Date 6601171
67	210400		HOUSING, Clutch -Used Before Code Date 6601181
67	211383		HOUSING, Clutch -Used After Code Date 6601171
68	63770		BALL, Clutch
70	296916		RATCHET, Clutch -Used Before Code Date 6601181
70	298799		RATCHET, Clutch -Used After Code Date 6601171
71	221301		WASHER -Used Before Code Date 6601181
71	221653		WASHER -Used After Code Date 6601171
73	220823		SCREEN, Rotating -Used Before Code Date 6601181
73	221796		SCREEN, Rotating -Used After Code Date 6601171
74	93014		SCREW
74	93042		SCREW
74	93381		SCREW
75	220865		WASHER -(Heavy Flywheel)
76	68238		SEAL, Ratchet
81	222265		SCREW
98	91920		SCREW -(8-32 X 5/8)
99	26157		SPRING, Compression
181	293270		CAP, Fuel Tank
198	293934		VALVE, Fuel Shut Off
199	295896		OUTLET, Tank -(Includes Strainer)
200	221760		GUIDE, Air
201	260710		LINK, Choke
201	260971		LINK, Choke
206	230149		NUT, Governor Adjusting -(5-44)

Footnotes:

Uses: 26032 Ring

(For engine W/Ring Gear on FW equipped for Elec Start)

Valves with hole in stem except those with Rotocoil.



Cylinder,Sump,Control,Piston

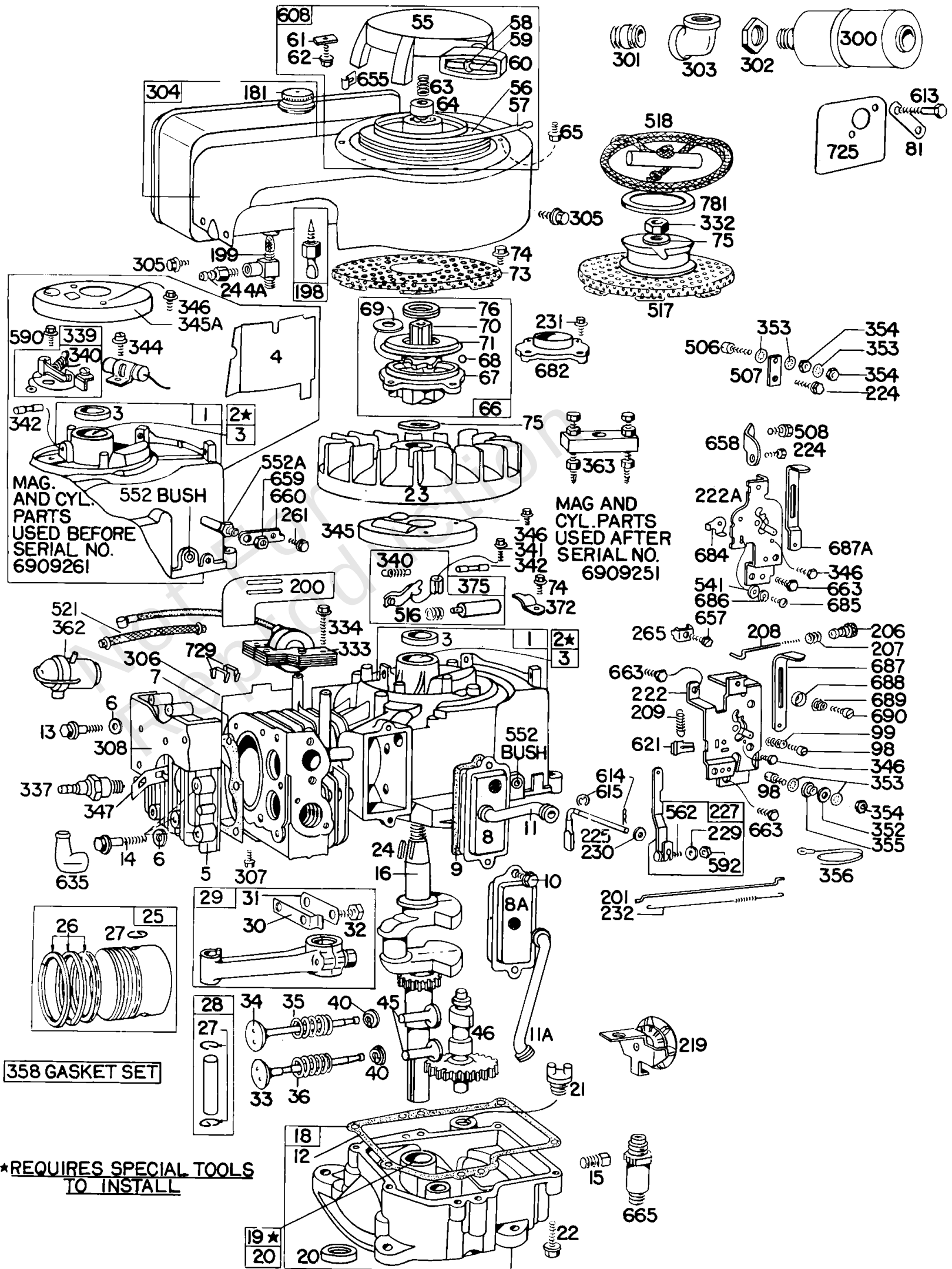
REF NO	PART NO	QTY	DESCRIPTION
207	26855		SPRING, Governor Link
208	230853		ROD, Governor Control
209	260723		SPRING, Governor
209	261129		SPRING, Governor
219	298614		SLINGER, Governor/Oil
222A	298998		BRACKET, Control
222	390661		BRACKET, Control
225	231071		SHAFT, Governor Gear -(3/16 Diameter)
227	298303		LEVER, Governor Control -(3/16 Diameter)
229	220680		WASHER
230	221559		WASHER -(3/16 I.D.)
231	93064		SCREW
232	260584		SPRING/LINK, Mechanical Governor
244A	230318		CONNECTOR, Hose
261	93105		SCREW
265	221535		CLAMP, Casing -(Stamped Steel)
300	294599		MUFFLER
301	91245		ELBOW, Exhaust
302	91242		LOCKNUT -(Muffler and Elbow)
303	91205		ELBOW, Exhaust -(90 Degree)
304	299853		HOUSING, Blower
305	93158		SCREW -(1/4-20 X 5/8)
306	221005		SHIELD, Cylinder
307	93163		SCREW
332	92284		NUT -(Flywheel)
333	298968		ARMATURE, Magneto -(Breaker Ignition)
334	93381		SCREW
337	29693		PLUG, Spark -Above Spark Plugs use Ignition Cable Terminal No. 221798
337	298809		PLUG, Spark
339	29667		BREAKER, Ignition
340	26018		SPRING, Breaker Arm
341	93381		SCREW
342	65704		PLUNGER, Breaker
344	93370		SCREW -(Condenser)
345A	221046		COVER, Breaker
345	222117		COVER, Breaker
346	93014		SCREW
347	220884		SWITCH, Stop
347	221808		SWITCH, Stop

Footnotes:

Uses: 26032 Ring

(For engine W/Ring Gear on FW equipped for Elec Start)

Valves with hole in stem except those with Rotocoil.



Cylinder,Sump,Control,Piston

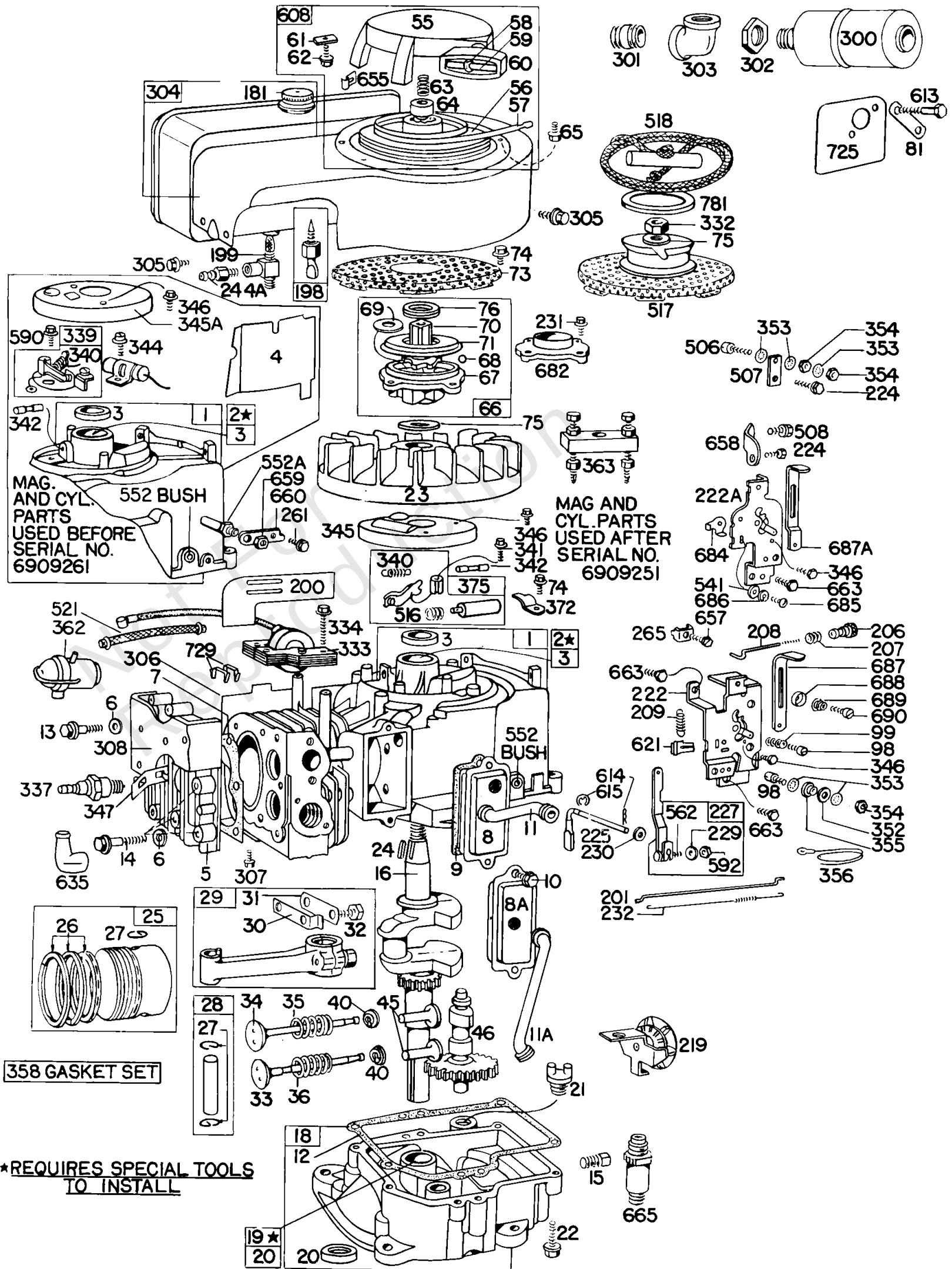
REF NO	PART NO	QTY	DESCRIPTION
352	66068		WASHER -(Fiber)
353	92791		WASHER
354	90576		NUT -(Ground Terminal)
355	66554		WASHER -(Insulating)
356	299500		WIRE, Stop -(Used with Armature Refs. 333A and 333B)
358	295970		GASKET SET, Engine
362	291630		SHIELD, Spark Plug -(With Stop Switch)
363	19165		PULLER, Flywheel
372	220477		CLAMP
375	294628		BREAKER, Ignition
375	299061		BREAKER, Ignition -Includes: 294628 Point Set 65704 Plunger 61760 Key-Flywheel
508	93294		SCREW -(5/8)
516	260374		SPRING, Condensor
517	295423		PULLEY, Rope Starter
518	69932		GRIP, Starter Rope
521	298529		SHIELD, Protective
541	22398		WASHER
552A	230761		BUSHING, Governor Crank -(Threaded)
552	230927		BUSHING, Governor Crank -(3/16 I.D.) (No Threads)
562	92613		BOLT -(Governor Lever)
590	93226		SCREW
592	90356		NUT -(10-24)
608	295001		STARTER, Rewind -For Starter Assembly with longer than standard rope order No. 298107
613	93549		SCREW -(1/4-20)
614	93306		PIN, Cotter
615	93307		RETAINER, Governor Shaft
621	297472		SWITCH, Stop
635	66538		BOOT, Spark Plug
655	221014		ANCHOR, Rewind Spring
657	93496		SCREW -(10-32 X 5/8)
658	221827		BRACKET, Support
659	93390		NUT -(Governor Shaft)
660	221577		BRACKET, Control
663	93572		SCREW -(10-32 X 3/8)
665	296768		MINDER, Oil
682	211516		SHIELD, Starter

Footnotes:

Uses: 26032 Ring

(For engine W/Ring Gear on FW equipped for Elec Start)

Valves with hole in stem except those with Rotocoil.



Cylinder,Sump,Control,Piston

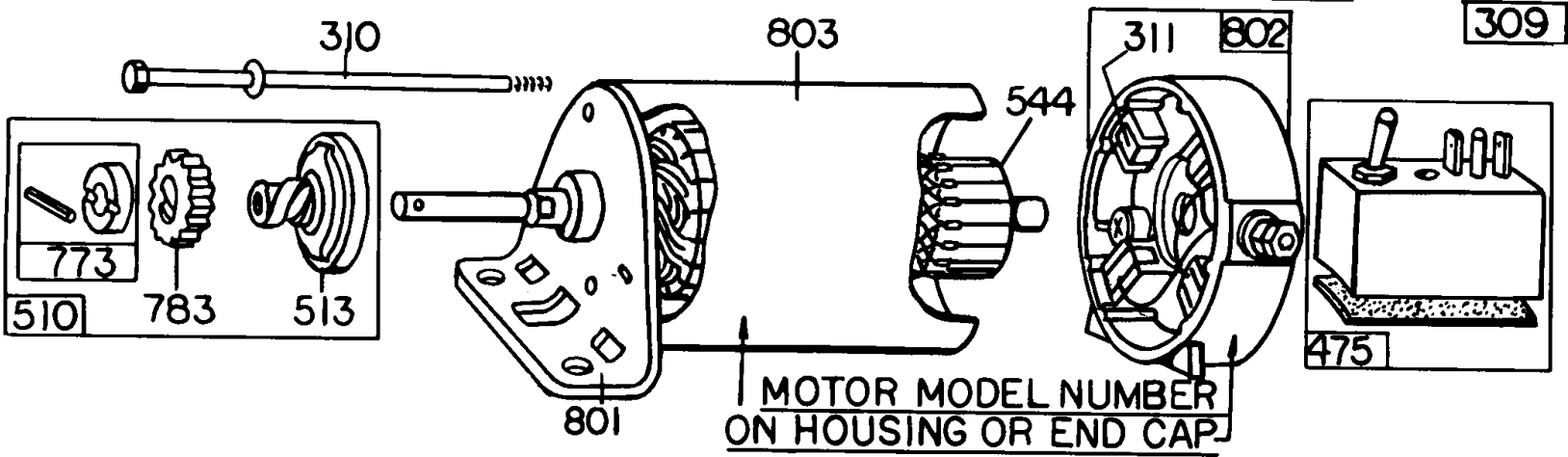
REF NO	PART NO	QTY	DESCRIPTION
682	211521		CLUTCH, Starter -Uses: 93381 Screw (4)
684	221781		LEVER, Control
685	93392		SCREW
686	91622		WASHER
687A	298957		SLIDE, Control
687	390690		SLIDE, Control
688	221766		SPRING, Friction
689	260847		SPRING, Friction
690	92484		SCREW
725	221885		SHIELD, Heat
729	221907		CLIP, Wire
781	280068		CAP, Starter Pulley

Not For
Reproduction

Footnotes:
Uses: 26032 Ring
(For engine W/Ring Gear on FW equipped for Elec Start)
Valves with hole in stem except those with Rotocoil.

INSTRUCTIONS

To determine the part number of a starter motor, or starter motor part, first identify the starter motor manufacturer and motor model number. See illustration for location. Next, use chart to select part number.



Subject		Ref. No. 309	Ref. No. 510	Ref. No. 801	Ref. No. 544	Ref. No. 803	Ref. No. 802	Ref. No. 311	Ref. No. 310	Ref. No. 475
Starter Motor Mfr. and Motor Model Number		Motor and Drive Assy.	Drive Assembly	End Cap Assy. Drive	Armature Assy.	Housing Assy.	End Cap Assy. Commutator*	Brush Assy.	Thru Bolt Assy.	Rectifier Assy.
American Bosch										
	12 V. SMH 12-A11	390307	390443	390444	390446	390447	390448	390449	390450	
	12 V. SME 12-A8	299330	390094	390092	390086	390097	390089		390080	
	12 V. 01965-23-MO-30-SM	390838	391461**	390444	391607	390447	390448	390449	390450	
	110 V. SME 110-C3	299329†	390094	390091	390088	390096	390098	390081	390080	390099
	110 V. SME 110-C6	299556	390094	390092	390088	390095	390098	390081	390080	390084
	110 V. SME 110-C8	299764	390094	390093	390088	390096	390098	390081	390080	390099
Mitsubishi										
	12 V. MMO-5ML	390307	299963	390454	390456	390452	390455	390990	299962	
	12 V. MMO-4FL	299330	299963	390454	390457	390453	390455	390990	299962	
	12 V. MOOIT02271	390838	391461**	391585	391584	390452	390455	390990	93771	
	110 V. J282188	299329	299963	299964	299968	299967	299965		299962	299966
Briggs & Stratton										
	12 V.	390838	391461**	392061	390837	390849	390846	391705	391706	

* Includes Brush Set

** Includes #391135 Clutch Assembly (Ref. No. 513)
#280104 Gear (Ref. No. 783)
#391462 Retainer and Pin (Ref. No. 773)

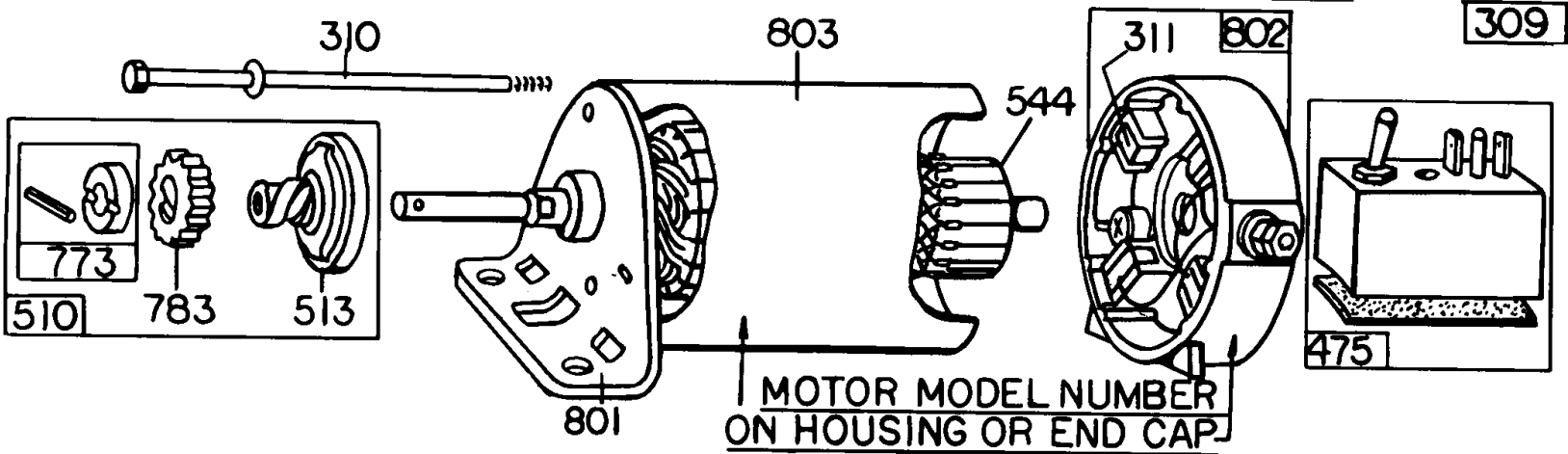
† Uses #392247 Switch Shield Assembly

Electric Starter and Chart

REF NO	PART NO	QTY	DESCRIPTION
309	299329		MOTOR, Starter -(Mitsubishi and American Bosch 110V)
309	299329		MOTOR, Starter -(Mitsubishi and American Bosch 110V) Uses #392247 Switch Shield Assembly
309	299330		MOTOR, Starter -(Mitsubishi and American Bosch 12V)
309	299556		MOTOR, Starter -(American Bosch 110V)
309	299764		MOTOR, Starter -(American Bosch 110V)
309	390307		MOTOR, Starter -(Bosch or Mitsubishi)
309	390838		MOTOR, Starter -(3 1/16 Housing)
310	299962		BOLT -(Mitsubishi Starters)
310	390080		SCREW -(American Bosch Starters)
310	390450		BOLT -(American Bosch 12V)
310	391706		SCREW -(3 1/16 Housing)
310	93771		BOLT -(Mitsubishi 12V)
311	390081		SET, Brush -(American Bosch 110V Starters)
311	390449		SET, Brush -(American Bosch 12V)
311	390990		SET, Brush -(Mitsubishi Starters)
311	391705		SET, Brush -(3 1/16 Housing)
475	299966		RECTIFIER -(Mitsubishi 110V)
475	390084		RECTIFIER -(American Bosch 110V)
475	390099		RECTIFIER -(American Bosch 110V)
510	299963		DRIVE, Starter -(Mitsubishi Starters)
510	390094		DRIVE, Starter -American Bosch 12V & 110V (SME 12-A8 & SME 110-C3, C6, or C8)
510	390443		DRIVE, Starter -(American Bosch 12V Or 110V)
510	391461		DRIVE, Starter -(3 1/2 Housing) Includes #391135 Clutch Assembly (Ref. No. 513) #280104 Gear (Ref. No. 783) #391462 Retainer and Pin (Ref. No. 773)
544	299968		ARMATURE, Starter
544	390086		ARMATURE, Starter
544	390088		ARMATURE, Starter -(American Bosch 110 V Starters)
544	390446		ARMATURE, Starter
544	390456		ARMATURE, Starter
544	390457		ARMATURE, Starter
544	390837		ARMATURE, Starter -(3 5/8 Housing)
544	391584		ARMATURE, Starter
544	391607		ARMATURE, Starter -(American Bosch 12V)

INSTRUCTIONS

To determine the part number of a starter motor, or starter motor part, first identify the starter motor manufacturer and motor model number. See illustration for location. Next, use chart to select part number.



Subject		Ref. No. 309	Ref. No. 510	Ref. No. 801	Ref. No. 544	Ref. No. 803	Ref. No. 802	Ref. No. 311	Ref. No. 310	Ref. No. 475
Starter Motor Mfr. and Motor Model Number		Motor and Drive Assy.	Drive Assembly	End Cap Assy. Drive	Armature Assy.	Housing Assy.	End Cap Assy. Commutator*	Brush Assy.	Thru Bolt Assy.	Rectifier Assy.
American Bosch										
	12 V. SMH 12-A11	390307	390443	390444	390446	390447	390448	390449	390450	
	12 V. SME 12-A8	299330	390094	390092	390086	390097	390089		390080	
	12 V. 01965-23-MO-30-SM	390838	391461**	390444	391607	390447	390448	390449	390450	
	110 V. SME 110-C3	299329†	390094	390091	390088	390096	390098	390081	390080	390099
Mitsubishi										
	12 V. MMO-5ML	390307	299963	390454	390456	390452	390455	390990	299962	
	12 V. MMO-4FL	299330	299963	390454	390457	390453	390455	390990	299962	
	12 V. MOOIT02271	390838	391461**	391585	391584	390452	390455	390990	93771	
	110 V. J282188	299329	299963	299964	299968	299967	299965		299962	299966
Briggs & Stratton										
	12 V.	390838	391461**	392061	390837	390849	390846	391705	391706	

* Includes Brush Set

** Includes #391135 Clutch Assembly (Ref. No. 513)
#280104 Gear (Ref. No. 783)
#391462 Retainer and Pin (Ref. No. 773)

† Uses #392247 Switch Shield Assembly

Electric Starter and Chart

REF NO	PART NO	QTY	DESCRIPTION
801	299964		CAP, Drive -(Mitsubishi 110V)
801	390091		CAP, Drive
801	390092		CAP, Drive -(American Bosch 12V Or 110V)
801	390093		CAP, Drive
801	390444		CAP, Drive -(American Bosch 12V)
801	390454		CAP, Drive -(Mitsubishi 12V)
801	391585		CAP, Drive -(Mitsubishi 12V)
801	392061		CAP, Drive -(3-1/16 or 3-3/4 Housing)
802	299965		CAP, End -(Mitsubishi 110V) Includes Brush Set
802	390089		CAP, End -(American Bosch 12V) Includes Brush Set
802	390098		CAP, End -Includes Brush Set (American Bosch 110 V Starters)
802	390448		CAP, End -(American Bosch 12V) Includes Brush Set
802	390455		CAP, End -Includes Brush Set (Mitsubishi 12Vstarters)
802	390846		CAP, End -(3 1/16 Housing) Includes Brush Set
803	299967		HOUSING, Starter
803	390095		HOUSING, Starter -(American Bosch 110V)
803	390096		HOUSING, Starter -(American Bosch 110V)
803	390097		HOUSING, Starter
803	390447		HOUSING, Starter -(American Bosch 12V)
803	390452		HOUSING, Starter -(Mitsubishi 12V)
803	390453		HOUSING, Starter -(Mitsubishi 12V)
803	390849		HOUSING, Starter -(3 1/16 Housing)

Replacement Engine - US & Canada

REF NO	PART NO	QTY	DESCRIPTION
	2158023015	1	Replacement Engine
	-----		Top No-Load Speed: 4000 -Trim: ALL
	-----		Service Note: If the replacement engine supersedes to or is a Model 210000 series engine, refer to the illustrations located after the conversion data for this model series. The overall dimensions which differ, are shown in the illustrations.
	-----		Service Note: If after making a visual inspection and it is determined the Model 210000 series engine cannot be used because of equipment interference, the original engine should be repaired with a short block and/or individual parts.

