

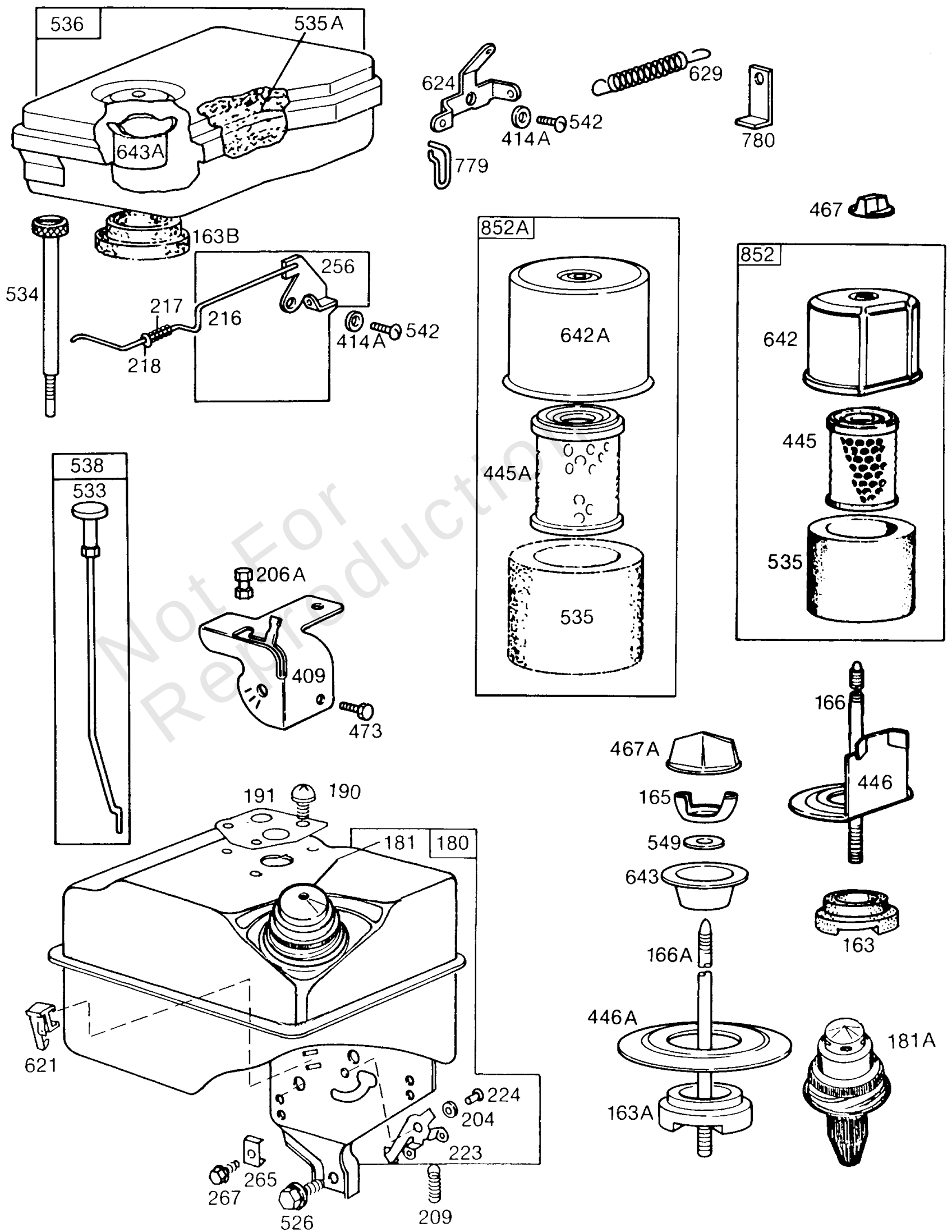


Parts Manual

Mfg. No: 131292-0117-01

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Not For
Reproduction

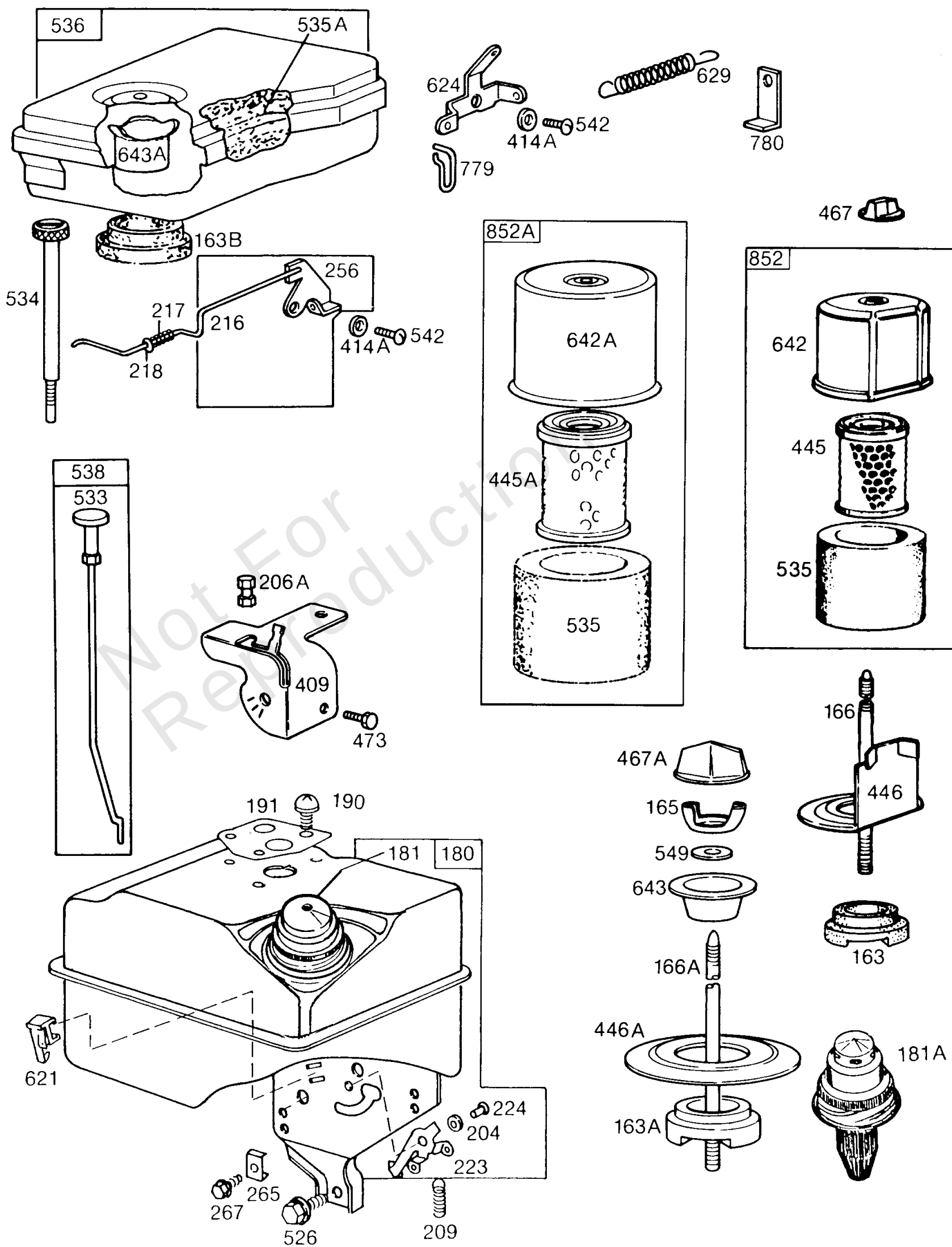


Air Cleaner Groups, Fuel Tank

REF NO	PART NO	QTY	DESCRIPTION
163B	27660		GASKET, Air Cleaner
163A	270488		GASKET, Air Cleaner -(Yellow)
163	271139		GASKET, Air Cleaner -(Above Spacer)
165	93856		NUT -(10-32)
166A	231176		STUD -(Air Cleaner) (3/16)
166	231315		STUD -(Pull Choke) -Used Before Code Date 84011100
166	231332		STUD -(Rotary Choke) -Used After Code Date 84011000
180	297600		TANK, Fuel -(3 Quart Tank)
180	397137		TANK, Fuel
181A	397567		CAP, Fuel Tank
181	394818		CAP, Fuel Tank
190	93440		SCREW
191	271592		GASKET, Fuel Tank -Included in Gasket Set-Part No. 397145 (Used with Rotary Choke Carburetors)
204	222962		BUSHING, Lever
206A	280012		NUT, Governor Adjusting
209	260695		SPRING, Governor
216	299859		LINK, Choke -Used Before Code Date 84011100
216	397709		CRANK, Bell -Used After Code Date 84011000
217	260189		SPRING, Friction -Used Before Code Date 84011100
217	261951		SPRING, Choke Return -Used After Code Date 84011100
218	221198		WASHER
223	221517		LEVER, Governor Control
224	93491		RIVET
256	299859		LINK, Choke -Used Before Code Date 84011100
256	397709		CRANK, Bell -Used After Code Date 84011000
265	221535		CLAMP, Casing -(Stamped Steel)
267	93496		SCREW -(10-32 X 5/8)
409	299837		CONTROL, Speed
414A	220982		WASHER
445A	392308		FILTER, A/C Cartridge
445	396424		FILTER, Pre Cleaner
446A	222844		BASE, Air Cleaner
446	395642		BASE, Air Cleaner
467A	212293		KNOB, Choke Shaft
467	212706		KNOB, Choke Shaft
473	93475		SCREW

Footnotes:

(Used with Pull Choke Carburetor-Ref. 90A)

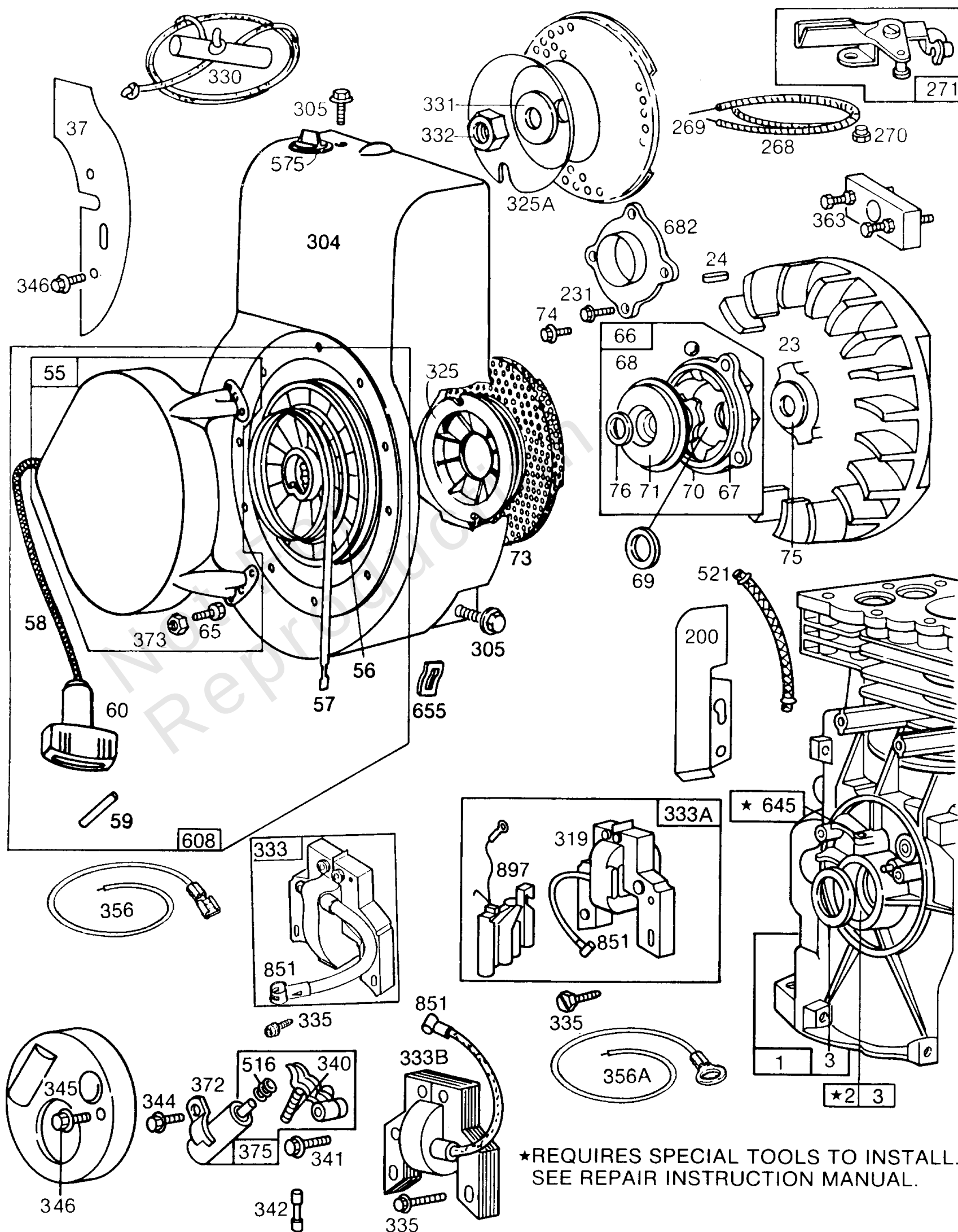


Air Cleaner Groups, Fuel Tank

REF NO	PART NO	QTY	DESCRIPTION
526	93343		SCREW -(Control Panel)
533	230149		NUT, Governor Adjusting -(5-44) Uses: 93384 Nut-Hex.
534	93322		SCREW -(1 15/16) -Used Before Code Date 84011100
534	94071		SCREW -Used After Code Date 84011000
535A	27987		FILTER, Air Cleaner Foam
535	271466		FILTER, Pre Cleaner
536	297036		CLEANER, Air -Used Before Code Date 84011100
536	397703		CLEANER, Air -Used After Code Date 84011000
538	299545		ROD, Control
542	93141		SCREW -(Diaphragm Cover)
549	271118		WASHER
621	297472		SWITCH, Stop
624	222476		CRANK, Bell
629	261094		SPRING, Throttle Return -(Throttle Return)
642A	222626		COVER, Air Cleaner
642	223306		COVER, Air Cleaner
643A	221321		CUP, Air Cleaner
643	222845		SUPPORT, Foam Element -(1/2 Deep)
779	390383		LINK, Bell Crank -(Includes Bell Crank)
780	223169		ANCHOR, Spring
852A	392368		CLEANER, Air
852	396397		CLEANER, Air

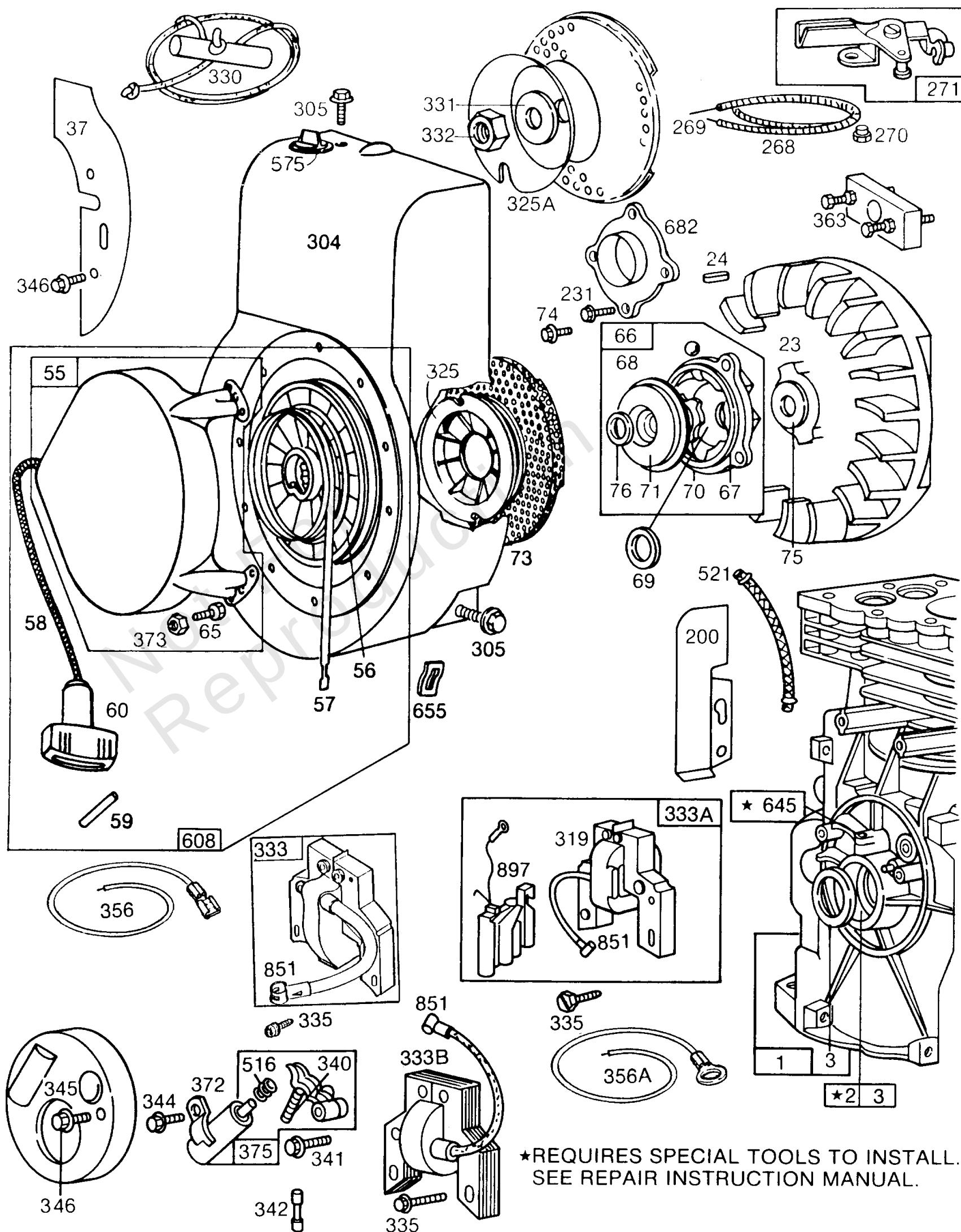
Footnotes:

(Used with Pull Choke Carburetor-Ref. 90A)



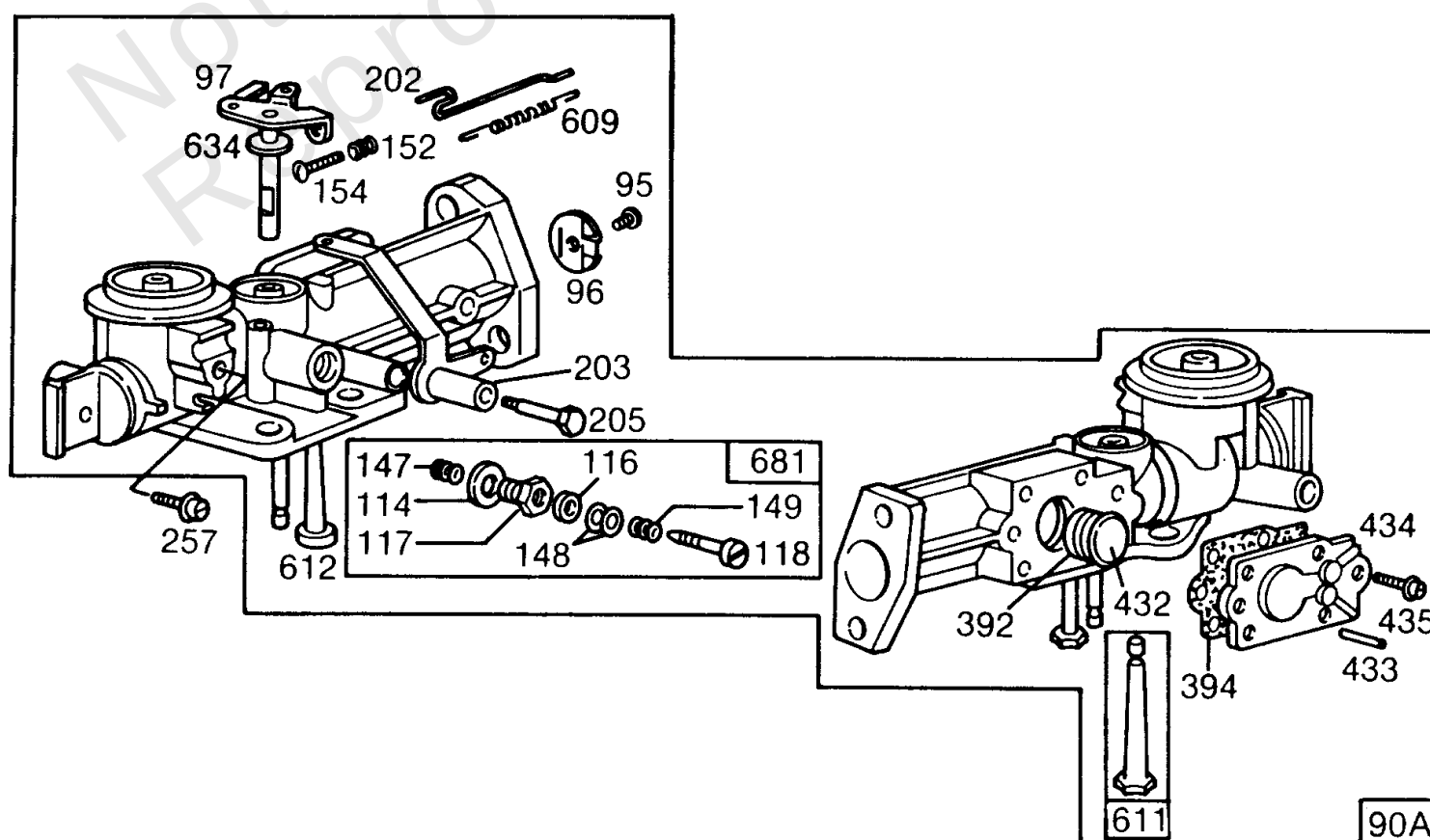
Blower Hsgs, Rewind,Elect.

REF NO	PART NO	QTY	DESCRIPTION
1	393839		CYLINDER ASSEMBLY
2	297565		KIT, Bushing/Seal
3	299819		SEAL, Oil -(Plain Bearing)
23	297229		FLYWHEEL
24	222698		KEY, Flywheel
24	61760		KEY, Flywheel -(Breaker Ignition)
37	222443		GUARD, Flywheel
55	299431		HOUSING, Rewind Starter
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	66884		ROPE, Starter -(Cut To Required Length) (use with Plastic Pulley) If longer rope is required, order rope No. 66894 and cut to length.
59	230228		PIN, Starter Grip
60	66728		GRIP, Starter Rope
65	93105		SCREW
66	298310		CLUTCH, Starter -(Rewind Starter)
67	212131		HOUSING, Clutch
68	63770		BALL, Clutch
69	66718		WASHER -(1-1/16 O.D. X 17/32 I.D.) (1 1/16 O.D. X 17/32 I.D.)
69	93676		WASHER -(Spring)
70	298436		RATCHET, Clutch
71	221653		WASHER
73	221923		SCREEN, Rotating
74	93490		SCREW -(Rotating Screen)
75	220865		WASHER -(Heavy Flywheel)
76	68238		SEAL, Ratchet
200	221480		GUIDE, Air
231	93064		SCREW
268	66986		CASING, Control Wire -(Cut To Required Length)
269	26099		WIRE, Control -(Cut To Required Length) If longer wire is needed, specify length in inches; if shorter wire is needed, order No. 26099 and cut to required length.
270	63426		NUT -(Control Wire Casing)
271	290568		LEVER, Control
304	299410		HOUSING, Blower
305	93158		SCREW -(1/4-20 X 5/8)
319	395490		ARMATURE, Magneto -(Less Trigger Coil)
325A	299421		PULLEY, Rope Starter -(With Screen)
325	280457		PULLEY, Rope Starter -Uses: 94062 Screw-Pulley Mounting
330	69932		GRIP, Starter Rope
331	220865		WASHER -(Heavy Flywheel)



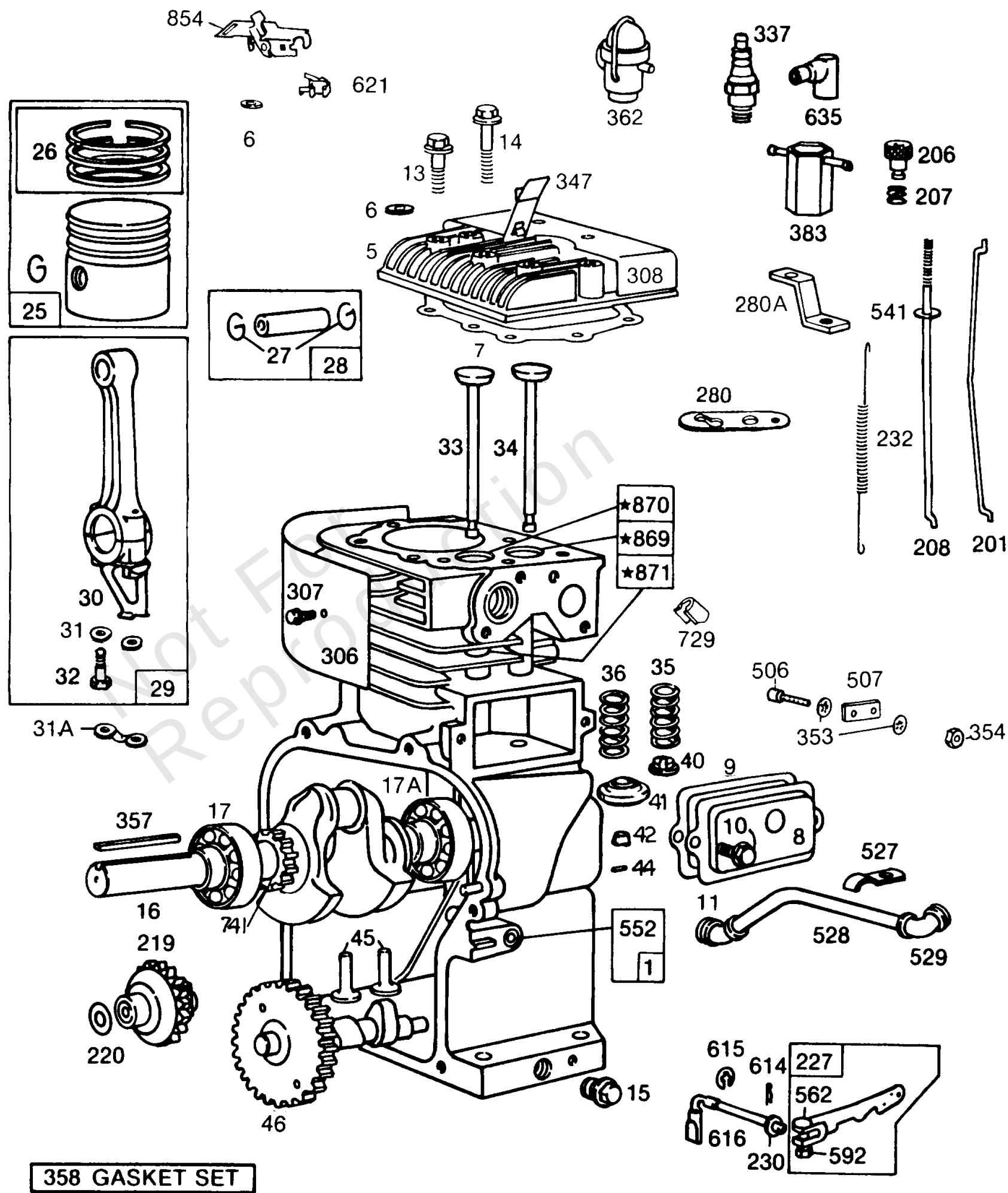
Blower Hsgs, Rewind,Elect.

REF NO	PART NO	QTY	DESCRIPTION
332	92284		NUT -(Flywheel)
333B	298316		ARMATURE, Magneto -(Points And Condenser)
333A	395491		ARMATURE, Magneto -(Magnetron Ignition)
333	397358		ARMATURE-MAGNETO
335	93414		SCREW
340	26018		SPRING, Breaker Arm
341	93381		SCREW
342	65704		PLUNGER, Breaker
344	93042		SCREW
345	220366		COVER, Breaker
346	93705		SCREW -(8-32 X 3/8)
356A	299500		WIRE, Stop -All Ground Wires Listed are Used with Armatures Refs. 333A and 333B Only. (Used with Armature Refs. 333A and 333B)
356	398808		WIRE, Stop -(Cut To Required Length)
363	19069		PULLER, Flywheel
372	220477		CLAMP
373	92987		STARTER, Rewind
375	294628		BREAKER, Ignition
375	299061		BREAKER, Ignition -Includes: 294628 Set 65704 Plunger 61760 Key-Flywheel (Conversion to MAGNETRON Ignition Order Part No. 394970.)
516	260374		SPRING, Condensor
521	298529		SHIELD, Protective
575	396691		SWITCH, Rotary -(Mechanical Governor)
608	390463		STARTER-REWIND
645	23513		BUSHING, Plunger -(Used only with Breaker Point Ignition)
655	222598		ANCHOR, Rewind Spring -(Stamped Rewind Housing)
682	211516		SHIELD, Starter
851	221798		TERMINAL, Spark Plug
897	394970		KIT, Magnetron Ignition



Carburetor Assemblies

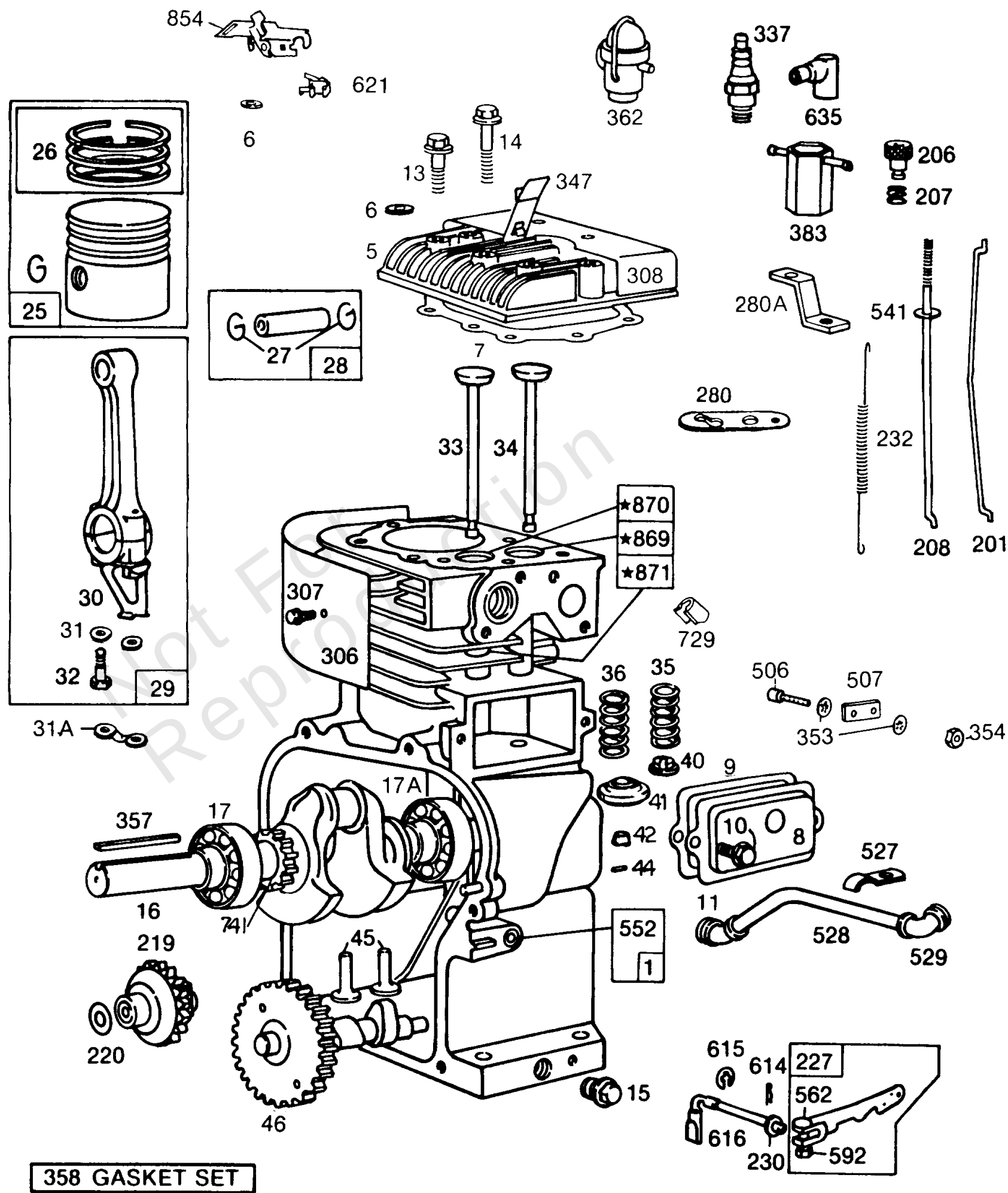
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52	27355		GASKET, Intake -(2) Included in Gasket Set-Part No. 397145
90A	299437		CARBURETOR
90	397135		CARBURETOR -(Rotary Choke)
95	93499		SCREW -(Throttle Valve)
96	211203		VALVE, THROTTLE
97	299212		SHAFT, Throttle
108	397134		KIT, Choke Shaft
110	221226		WASHER
111	94060		WASHER
112	93686		SCREW -(10-32 X 5/8)
114	66594		WASHER, Sealing -(Needle Valve)
116	65978		SEAL, O-Ring -(Needle Valve)
117	230590		NUT
118	23433		VALVE, Float Needle
124	93357		SCREW
127	22831		PLUG, Welch
147	230591		SEAT, Needle Valve
148	22235		WASHER
149	26336		SPRING, Needle Valve
152	260575		SPRING, Throttle Return
154	93527		SCREW -(5-40 X 5/8)
202	260678		LINK, Throttle -(Mechanical Governor)
203	393919		CRANK, Bell
205	93838		SCREW -(6-32)
257	93543		SCREW -(10-32 X 3/8)
392	260455		SPRING, Pump Diaphragm
394	270026		DIAPHRAGM, Carburetor
414	231325		SPACER -(Choke Lever)
432	221377		CAP, Spring
433	93265		PIN, Locating
434	210959		COVER, Diaphragm
435	93141		SCREW -(Diaphragm Cover)
609	260694		SPRING, Governor Link -(Mechanical Governor)
611	391813		TUBE-PICK UP -(2 And 3 Quart Tanks)
612	296811		TUBE, Pick Up
634A	270382		WASHER -(Foam)
634	270167		SEAL, Choke/Throttle Shaft -(Felt)
681	299060		VALVE, High Speed -(Threaded)
951	223286		LEVER, Choke



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

Cylinder,Cylinder Hd,Piston

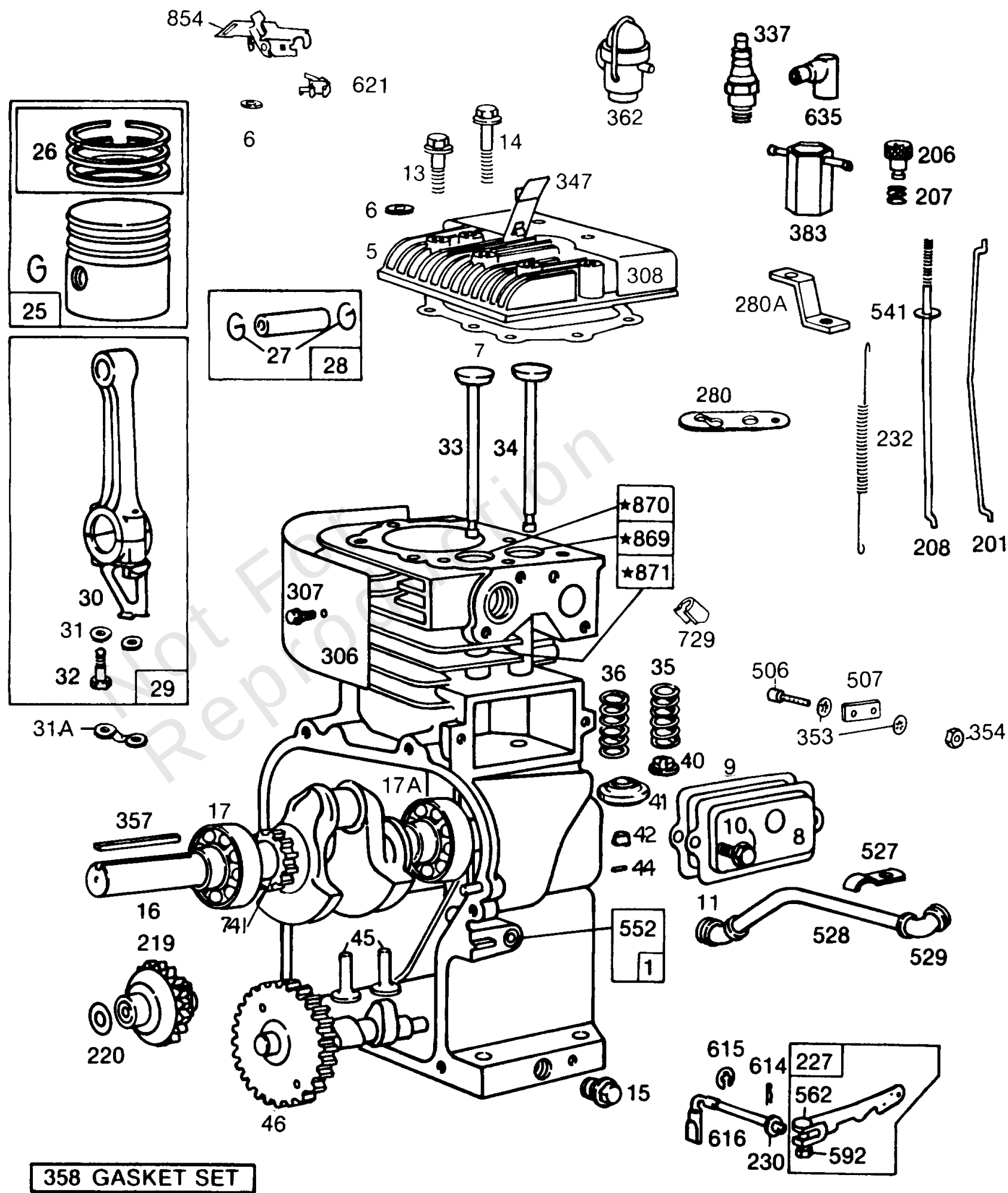
REF NO	PART NO	QTY	DESCRIPTION
1	393839		CYLINDER ASSEMBLY
5	211542		HEAD, Cylinder
6	22963		WASHER
7	270383		GASKET, Cylinder Head -Included in Gasket Set-Part No. 397145
8	294178		COVER, Breather Passage
9	27549		GASKET, Rocker Cover -Included in Gasket Set-Part No. 397145
10	93394		SCREW
11	66578		TUBE, Breather
13	93368		SCREW -(2 3/32)
13	93583		STUD -(Cylinder Head)
14	93369		SCREW -(2-15/32)(Cylinder Head)
14	93583		STUD -(Cylinder Head)
15	91249		PLUG, Oil Drain -(1/4 Square)
16	395525		CRANKSHAFT -To Replace Crankshaft Gear Pin, Order Part No. 230978
17A	99157		BEARING-BALL -(Magneto Side)
17	99158		BEARING-BALL
25	393819		PISTON ASSEMBLY -(Standard)
25	393820		PISTON ASSEMBLY -(.010 Oversize)
25	393821		PISTON ASSEMBLY -(.020)
25	393822		PISTON ASSEMBLY -(.030 Oversize)
26	299742		SET, Ring -Used Before Code Date 85042200
26	393835		SET, Ring -Used Before Code Date 85042200
26	393836		SET, Ring -(.010 Oversize) -Used Before Code Date 85042200
26	393837		SET, Ring -(.020 Oversize) -Used Before Code Date 85042200
26	393838		SET, Ring -(.030 Oversize) -Used Before Code Date 85042200
26	399014		SET, Ring -(.010 Oversize) -Used After Code Date 85042100
26	399015		SET, Ring -(.020 Oversize) -Used After Code Date 85042100
26	399016		SET, Ring -(.030 Oversize) -Used After Code Date 85042100
26	399067		SET, RING -Used After Code Date 85042100
27	26026		LOCK, Piston Pin
28	298908		PIN, Piston -(.005 Oversize)



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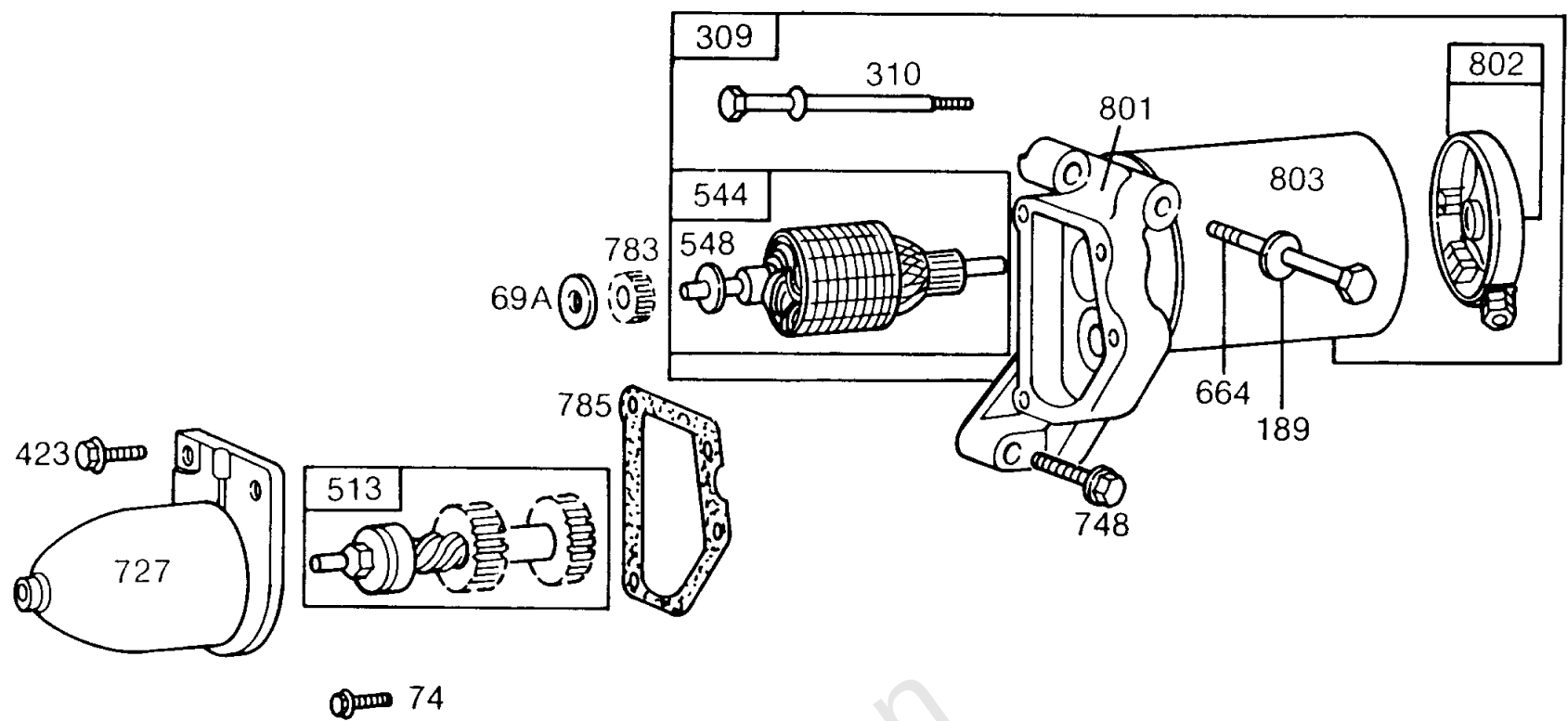
Cylinder,Cylinder Hd,Piston

REF NO	PART NO	QTY	DESCRIPTION
28	298909		PIN. Piston
29	299430		ROD, Connecting -For Connecting Rod with .020 undersize Crankpin Bore-Order No. 390459
30	221890		DIPPER, Connecting Rod
31A	221876		LOCK, Screw Head
31	222282		WASHER
32	92296		SCREW -(Connecting Rod)
33	260860		VALVE, Exhaust
34	261044		VALVE, Intake
35	260552		SPRING, Valve -(Exhaust)
36	26826		SPRING, VALVE -(Exhaust)
40	93312		RETAINER, Valve -(Valves With Groove In Stem)
41	292259		RETAINER, Valve -(Exhaust)
42	230127		RETAINER, Valve
44	230126		PIN, Retainer
45	260642		TAPPET, Valve
46	211284		CAMSHAFT
201	260661		LINK, Choke -Used Before Code Date 80052900
201	261558		LINK, Mechanical Governor -Used After Code Date 80052900
206	230149		NUT, Governor Adjusting -(5-44) -Used Before Code Date 84043000
206	231266		NUT, Governor Adjusting -(6-32) -Used After Code Date 8402900
207	26855		SPRING, Governor Link
208	230737		ROD, Governor Control -(5-44) (9-1/8) -Used Before Code Date 84043000
208	230946		ROD, Governor Control -(9-1/8) -Used After Code Date 84042900
208	261985		ROD, Governor Control -(6-32) -Used After Code Date 84042900
219	391737		GEAR, Governor
220	221551		WASHER -(Governor Lever)
227	393920		LEVER, Governor Control
230	222450		WASHER
232	260478		SPRING/LINK, Mechanical Governor
280A	221384		BRACKET, Rod
280	223236		BRACKET, Rod
306	221511		SHIELD, Cylinder
307	93042		SCREW
308	221512		COVER, Cylinder Head
337	293918		PLUG, Spark
337	29693		PLUG, Spark
337	298809		PLUG, Spark
337	392588		PLUG, Spark



Cylinder, Cylinder Hd, Piston

REF NO	PART NO	QTY	DESCRIPTION
347	220884		SWITCH, Stop
353	92791		WASHER
354	90576		NUT -(Ground Terminal)
357	91539		KEY, Drive Pulley -(3/16 Square)
358	397145		GASKET SET, Engine
362	291630		SHIELD, Spark Plug -(With Stop Switch)
383	89838		WRENCH, Spark Plug
506	90200		SCREW -(8-32 X 1/2)
507	66895		INSULATOR
527	221514		CLAMP, Tube -(Rotary Choke)
528	230722		TUBE, Breather -Used Before Code Date 84011100
528	231328		TUBE, Breather -Used After Code Date 84011000
528	231386		TUBE, Breather
529	67838		GROMMET
541	22398		WASHER
552	231079		BUSHING, Governor Crank -(1/4 I.D.)
562	92613		BOLT -(Governor Lever)
592	231082		NUT -(Governor Control)
614	93306		PIN, Cotter
615	93307		RETAINER, Governor Shaft
616	231077		CRANK, Governor -(1/4 Diameter)
621	297472		SWITCH, Stop
635	66538		BOOT, Spark Plug
729	93708		CLIP, Wire -(Used to retain Ground Wire lead to Cylinder Rib)
741	261696		GEAR, TIMING -(Plain Bearing)
741	261880		GEAR, Timing -(Ball Bearing)
854	392884		BRACKET, Stopswitch
869	211787		SEAT, Valve -(Intake)
870	211436		SEAT, Valve -(Exhaust)
871	262001		BUSHING-VALVE GUIDE -(Exhaust)
871	63709		BUSHING, Valve Guide -(Intake)



Subject	Ref. No. 309	Ref. No. 544	Ref. No. 803	Ref. No. 802	Ref. No. 513	Ref. No. 727	Flywheel Ring Gear Material
Starter Motor Mfr.	Motor	Armature Assembly	Housing Assembly	End Cap Assy. Commutator	Drive Assembly	Drive Housing	
American Bosch					390581	390543	Steel
12V	390551*	390467	390468	390465	397645**	394408	Aluminum

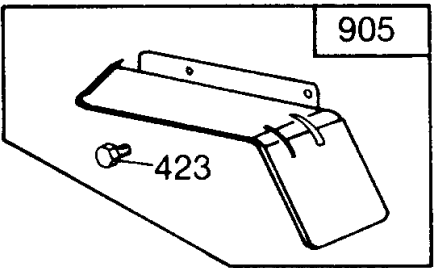
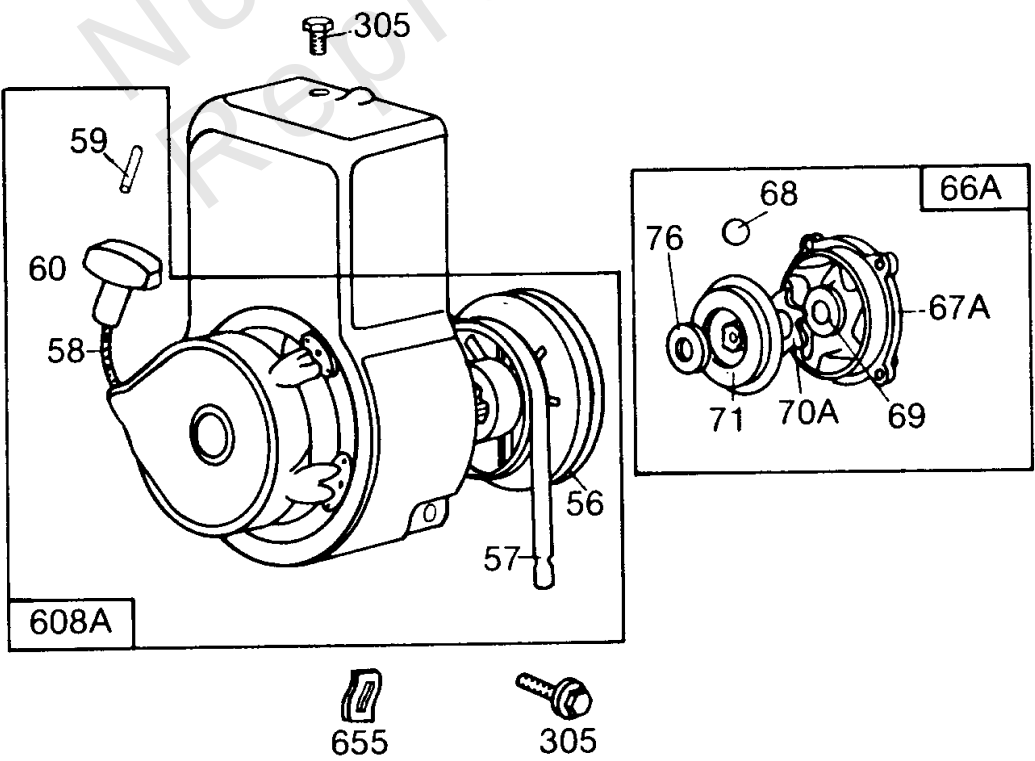
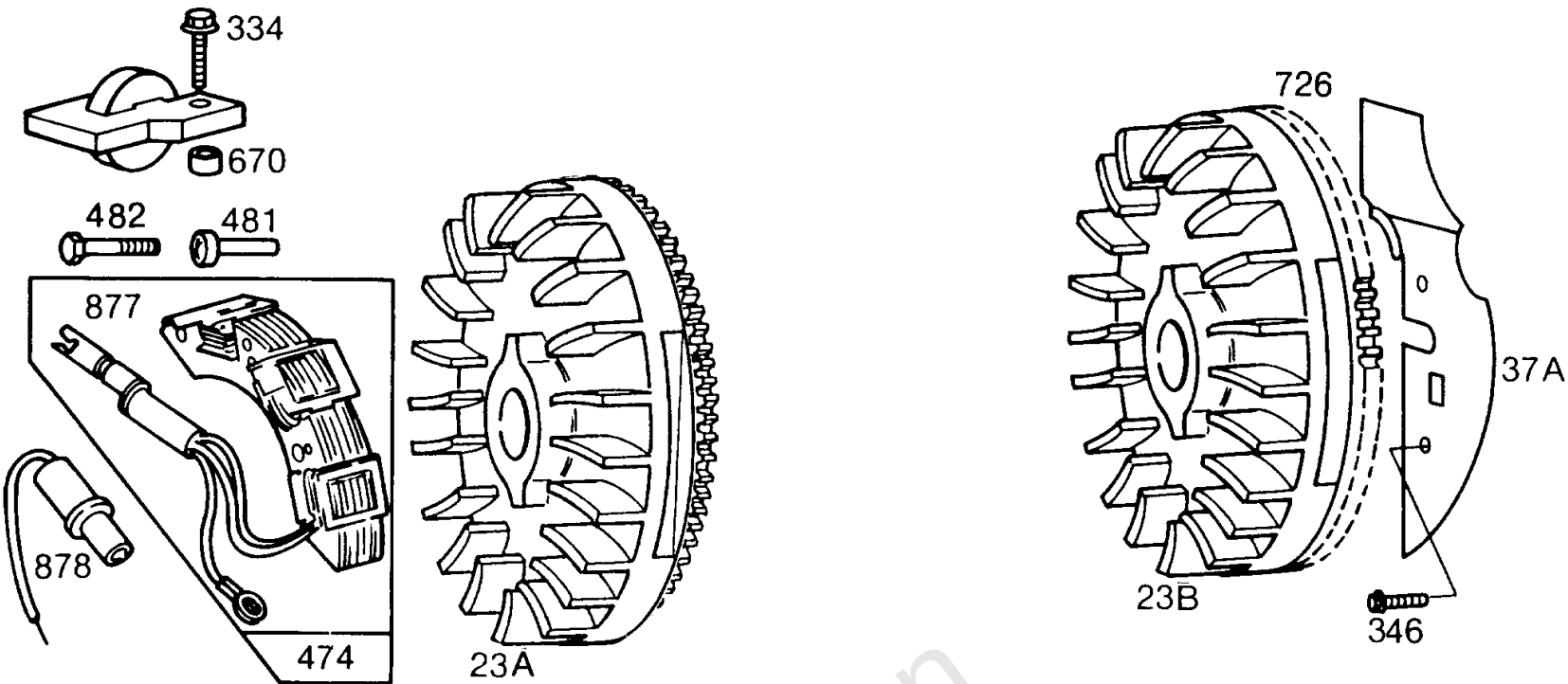
*Used #92813 Lockwasher and #231082 Hex Nut.

**Includes 280311 Starter Cover.

Ref. No. 423	Ref. No. 785	Ref. No. 783	Ref. No. 69	Ref. No. 310	Ref. No. 548	Ref. No. 664	Ref. No. 748	Ref. No. 801
Sem Screw 93654	Gasket 270718	Pinion 230972	Washer 93676	Motor Bolt 93648	Washer 93649	Mtg. Screw 93358	Mtg. Screw 93534	Mounting Head 390544

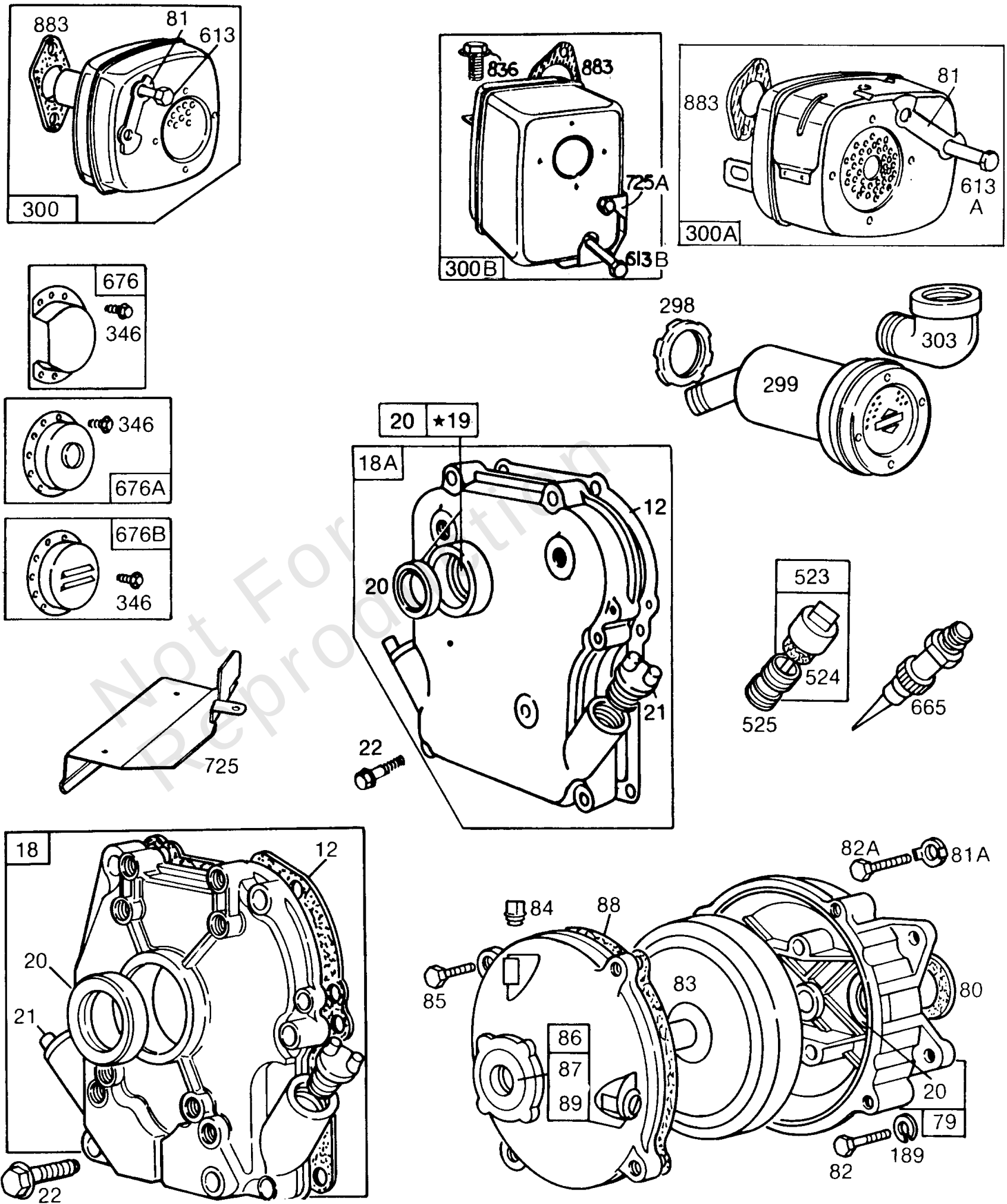
Electric Starter

REF NO	PART NO	QTY	DESCRIPTION
74	93490		SCREW -(Rotating Screen)
189	90366		WASHER
309	390551		MOTOR, Starter -(American Bosch 12V) Used #92813 Lockwasher and #231082 Hex. Nut.
310	93648		SCREW
423	93410		SCREW
423	93654		SCREW
513	390581		DRIVE, Starter
513	397645		CLUTCH, Drive -Includes 280311 Starter Cover
544	390467		ARMATURE, Starter -(American Bosch 12V)
548	93649		WASHER
664	93358		SCREW
727	390543		COVER, Starter Drive -(Metal Flywheel Ring Gear)
727	394408		COVER, Starter Drive
748	93534		SCREW
783	230972		GEAR, Pinion -Parts Common to the 12V and 110V Motors
785	270718		GASKET, Starter Cover
801	390544		CAP, Drive
802	390465		CAP, End -(American Bosch 12V)
803	390468		HOUSING, Starter -(American Bosch 12V)



Flywheels, Alternator, Rewind

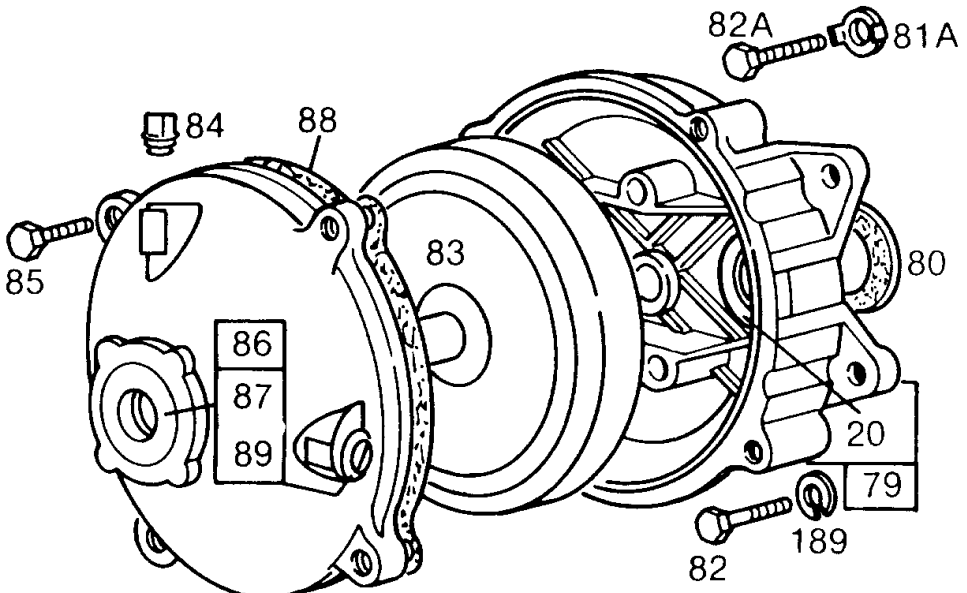
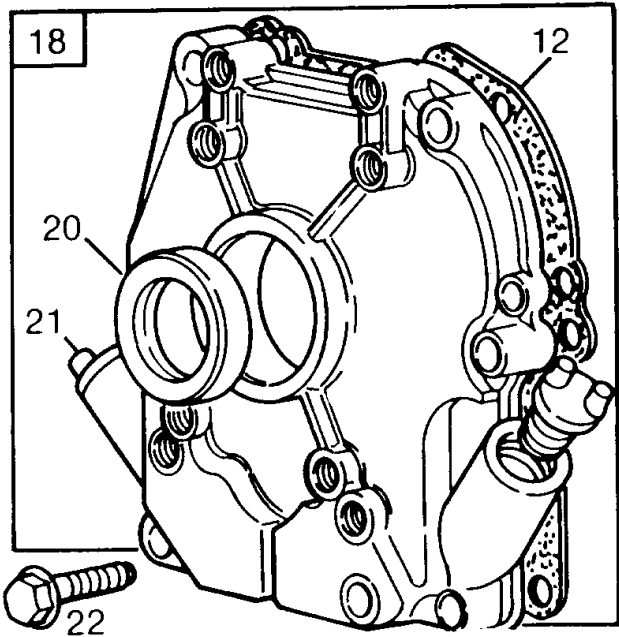
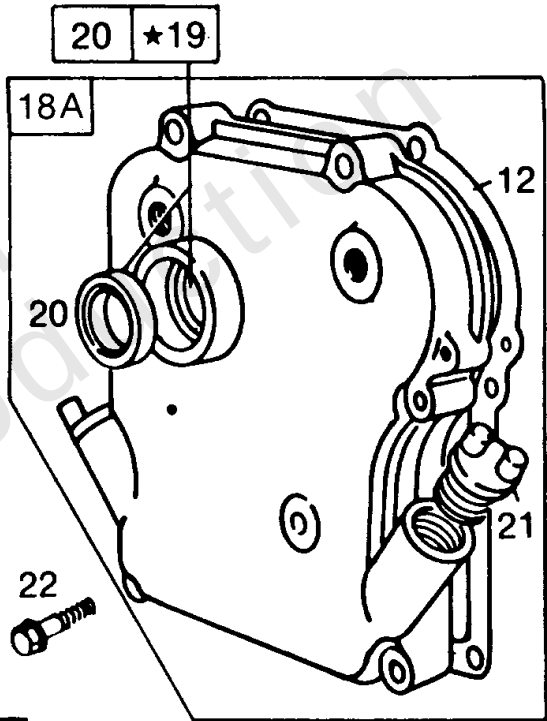
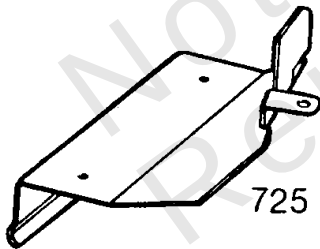
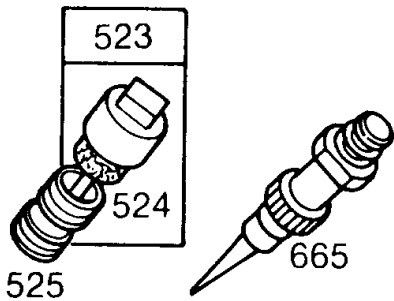
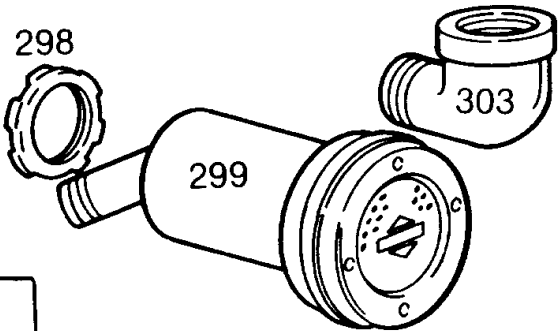
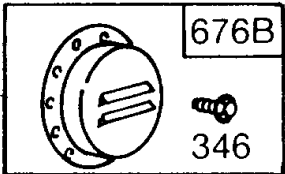
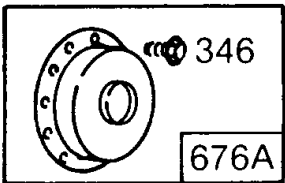
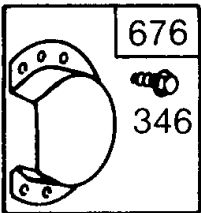
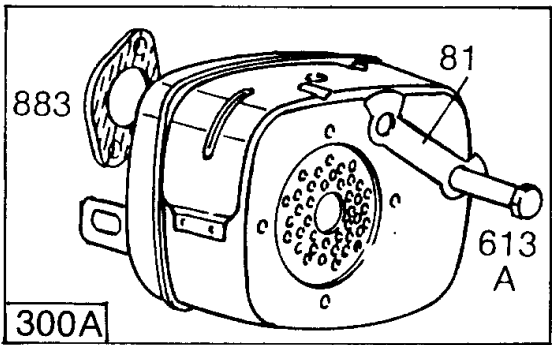
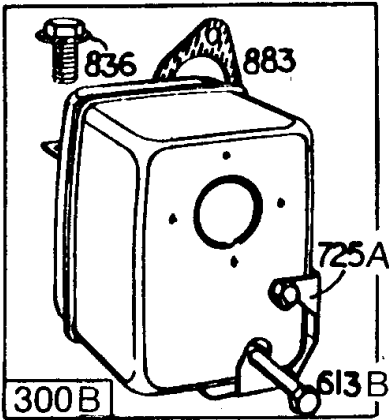
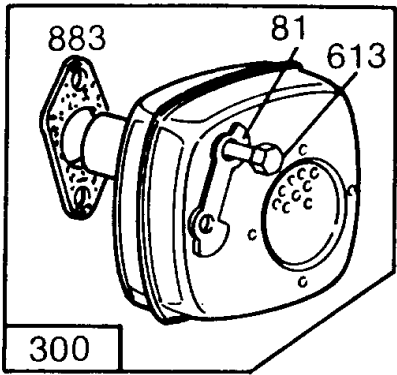
REF NO	PART NO	QTY	DESCRIPTION
23A	390509		FLYWHEEL -(Includes Steel Ring Gear)
23B	394424		FLYWHEEL -(Aluminum Ring Gear)
37A	222578		GUARD, Flywheel -(Electric Starter)
56	295871		PULLEY, Starter -(63 Rope) If longer rope is required, order rope No. 66894 and cut to length.
57	294303		SPRING, Rewind Starter
58	66884		ROPE, Starter -(Cut To Required Length) (use with Plastic Pulley) If longer rope is required, order rope No. 66894 and cut to length.
59	230228		PIN, Starter Grip
60	66728		GRIP, Starter Rope
66A	394558		CLUTCH, Starter -(engines w/Ring Gear on Flywheel equipped for Electric Start)
67A	394897		HOUSING, Clutch -For engines with Ring Gear on Flywheel equipped for or with Electric Motor.
68	63770		BALL, Clutch
69	66718		WASHER -(1-1/16 O.D. X 17/32 I.D.) (1 1/16 O.D. X 17/32 I.D.)
69	93676		WASHER -(Spring)
70A	298799		RATCHET, Clutch -(engine W/Ring Gear on FW equipped for Elec Start)
71	221653		WASHER
76	68238		SEAL, Ratchet
305	93158		SCREW -(1/4-20 X 5/8)
334	93613		SCREW -(Armature)
346	93705		SCREW -(8-32 X 3/8)
423	93410		SCREW
423	93654		SCREW
474	394173		ALTERNATOR
481	230970		BUSHING, Alternator
482	93639		SCREW
608A	297372		STARTER, Rewind -(10 O'clock)
655	222598		ANCHOR, Rewind Spring -(Stamped Rewind Housing)
670	261065		SPACER
726	397644		GEAR, Ring -(Aluminum)
877	393854		WIRE/CONNECTOR, Alternator
878	393422		WIRE ASSEMBLY -(Dc Only)
905	394510		SHIELD, Snow



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

Mufflers,Gear Case,Crankcase

REF NO	PART NO	QTY	DESCRIPTION
12	270080		GASKET, Crankcase -(.015) Included in Gasket Set-Part No. 397145
12	270125		GASKET, CRANKCASE -(.005) Included in Gasket Set-Part No. 397145
12	270126		GASKET-CRKCSE/009 -(.009) Included in Gasket Set-Part No. 397145
18A	298183		COVER, Crankcase
18	298204		COVER, Crankcase -(Ball Bearing)
19	267603		KIT, Bushing/Seal
20	391484		SEAL, Oil -(1/2 Auxiliary Drive Shaft)
21	66768		PLUG, Oil
22	93032		SCREW -(Fuel Tank) (Tank)
79	290779		CASE, Gear Reduction
80	27667		GASKET, Gear Case
81A	220234		LOCK, Muffler Screw
81	222263		LOCK, Muffler Screw -(3/8 Diameter Bolt Holes)
81	222929		LOCK, Muffler Screw -(1/4 Diameter)
82A	92279		SCREW -(5/16-24 X 1/2)
82	91541		SCREW -(5/16-24 X 7/8)
83	211293		SHAFT, Auxiliary Drive
84	92617		SCREW -(Gear Case)
85	92747		SCREW -(Used on Two Top Holes to Mount Cover)
86	291730		COVER, Gear
87	19011		SEAL, Oil
88	27313		GASKET, Gear Cover/Housing
89	93448		PLUG, Oil Drain -(Flush) (1/4-18 NPTF) (Flush) (1/4 18 NPTF)
189	90366		WASHER
298	261409		LOCKNUT -(Muffler and Elbow)
299	393368		MUFFLER -(20 Degree)
300A	391232		MUFFLER -Uses: 93415 Screw (Guard and Retainer Mounting) 93606 Screw (Guard to Muffler Mounting) 222379 Retainer-Muffler
300B	396001		MUFFLER -(Lo Tone)
300A	391313		MUFFLER
300	393615		MUFFLER -(Lo Tone)
346	93705		SCREW -(8-32 X 3/8)
523	297357		DIPSTICK/CAP ASSEMBLY
524	65304		SEAL, O-Ring -(Dipstick Cap)
525	91258		TUBE, Dipstick -(2 1/2) Uses: 394884 Adapter-Oil Filler Pipe
613A	93704		SCREW -(Muffler) -Used Before Code Date 82091300



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Mufflers, Gear Case, Crankcase

REF NO	PART NO	QTY	DESCRIPTION
613A	94042		SCREW -(Muffler) -Used After Code Date 82091400
613B	94054		SCREW -(Muffler)
613	93549		SCREW -(1/4-20)
613	93935		SCREW -(Muffler)
665	298858		MINDER, Oil
676A	395700		DEFLECTOR, Muffler -(Direct Outlet)
676B	393758		DEFLECTOR, Muffler -(Louvered Outlet)
676	222292		DEFLECTOR, Muffler -(Side Outlet)
725A	223303		SHIELD, Heat
725	223334		SHIELD, Heat
836	93559		SCREW -(Tank) (Fuel Tank)
883	270918		GASKET, Exhaust

Replacement Engine - US & Canada

REF NO	PART NO	QTY	DESCRIPTION
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Not For Reproduction

