

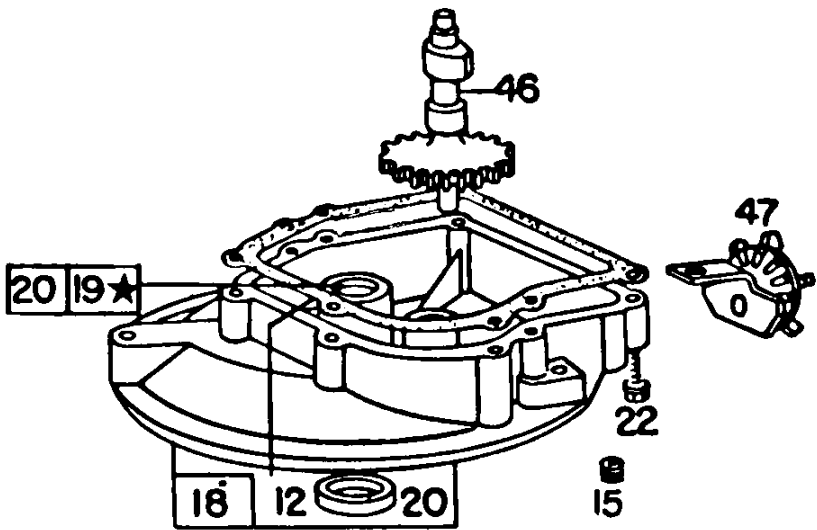


Parts Manual

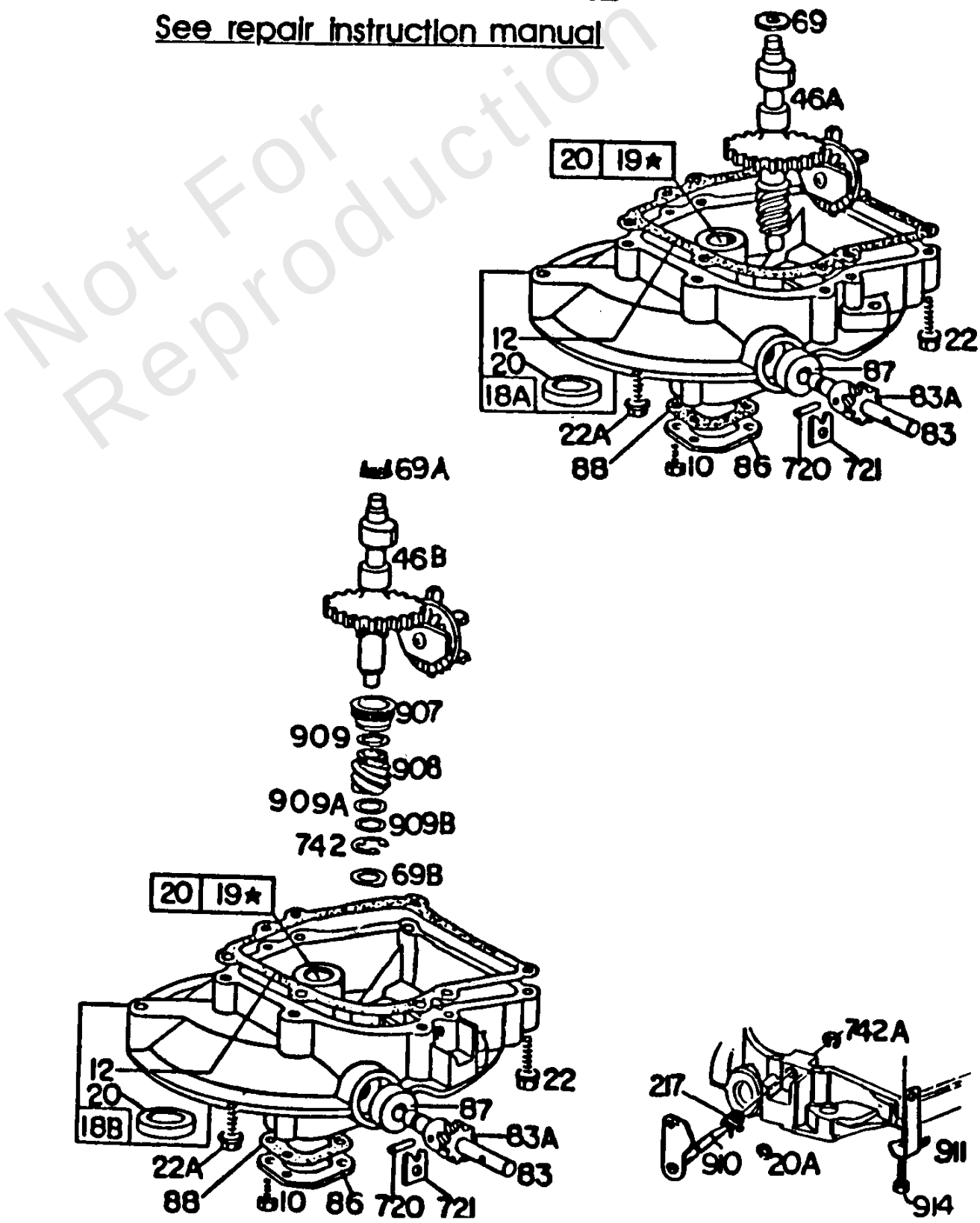
Mfg. No: 093507-5183-99

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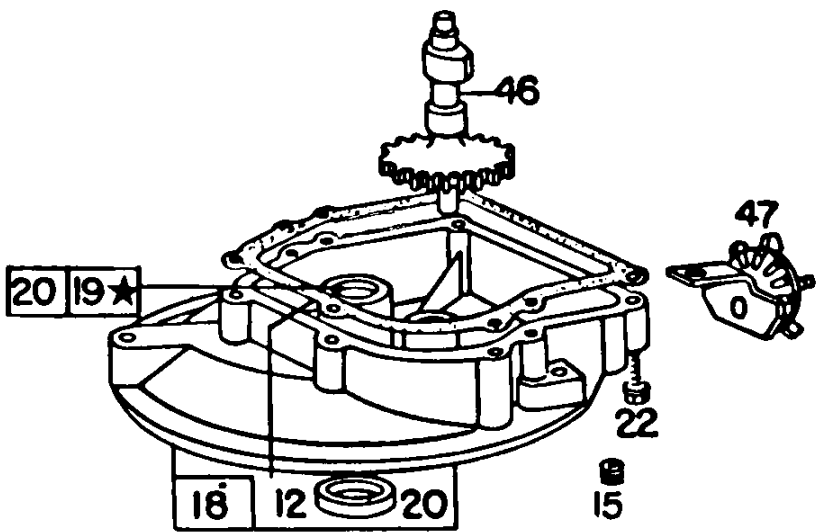


★ Special tools required to install.
See repair instruction manual

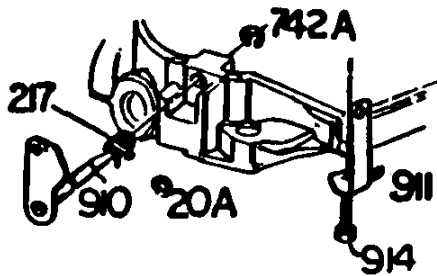
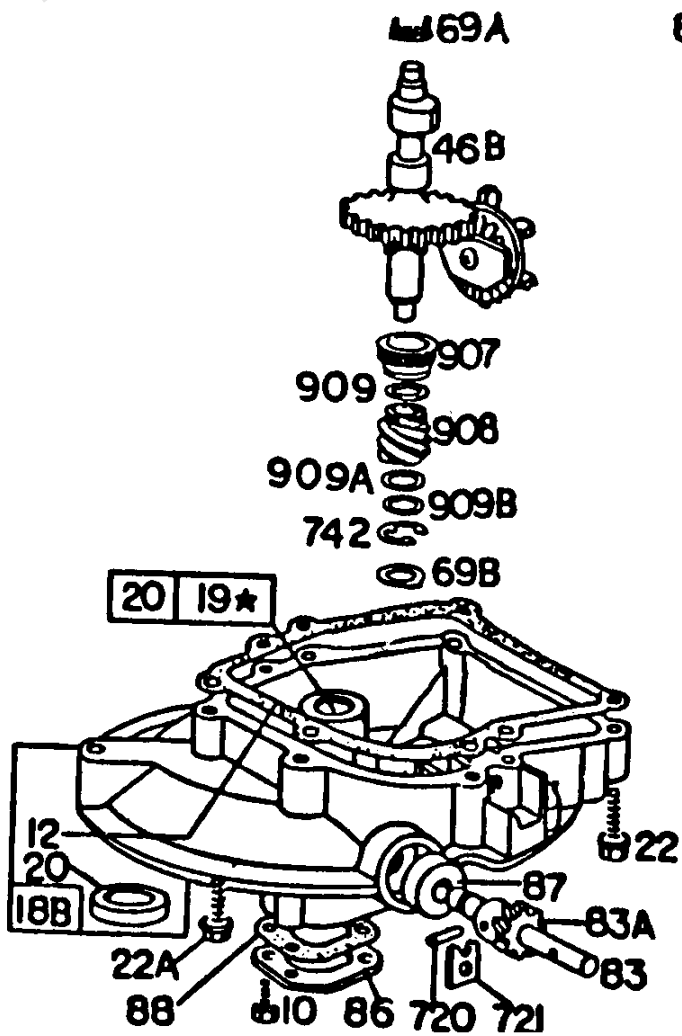
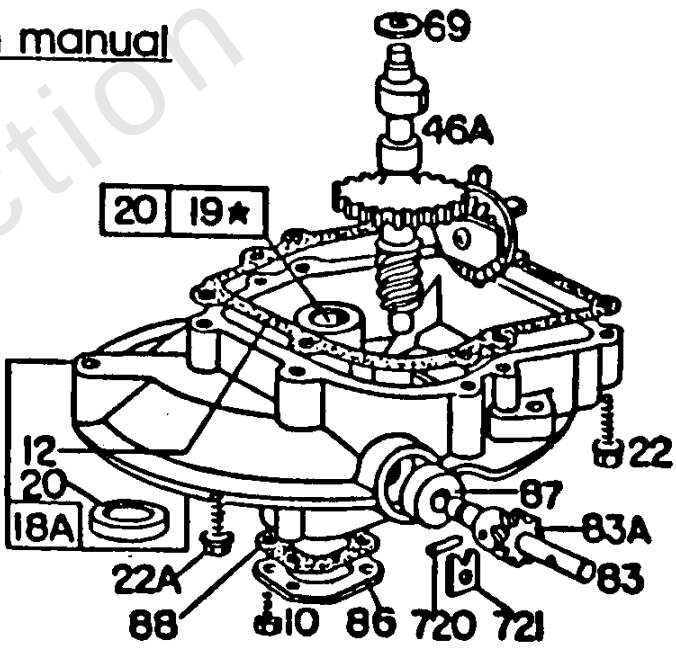


(2)Sump Bases & Right Angle Dr

REF NO	PART NO	QTY	DESCRIPTION
10	93394		SCREW
12	270833		GASKET, Crankcase -(.015) Included in Gasket Set-Part No. 298989
12	270895		GASKET, Crankcase -(.005) Included in Gasket Set-Part No. 298989
12	270896		GASKET, Crankcase -(.009) Included in Gasket Set-Part No. 298989
15	93418		PLUG, Oil Drain -(Flush)
18B	395392		SUMP, Engine -(Clutch)
18	395384		SUMP, Engine
19	293709		KIT, Bushing/Seal -(PTO Side)
20A	280266		SEAL, Oil
20	391483		SEAL, Oil -(PTO Side)
22	93032		SCREW -(Fuel Tank) (Tank)
46A	396197		CAMSHAFT -(Clockwise)
46B	395334		CAMSHAFT -(Clutch)
46	394800		CAMSHAFT -(Metal)
47	294652		SLINGER, Governor/Oil
69B	223228		WASHER, Thrust
69A	223225		WASHER
69	66718		WASHER -(1-1/16 O.D. X 17/32 I.D.) (1 1/16 O.D. X 17/32 I.D.)
69	68938		WASHER -Used on counterclockwise rotation Auxiliary Drive P.T.O. Camshaft and is located next to the Worm Gear. (13/16 ODx17/32 ID) Use on Aux Drive PTO.Cam
83A	231278		GEAR, Drive -(Clockwise)
83	230831		SHAFT, Auxiliary Drive
86	221780		COVER, Drive Gear
87	391484		SEAL, Oil -(1/2 Auxiliary Drive Shaft)
88	270328		GASKET, Drive Gear Cover -Included in Gasket Set-Part No. 298989
217	261520		SPRING, Return -(Clutch Lever)
720	93474		PIN, Shaft
721	221779		STOP, Shaft
742A	93925		RETAINER -(Clutch Lever)
742	93525		RETAINER, E Ring
907	394871		SLEEVE, Clutch
908	231220		GEAR, Worm
909A	271418		WASHER, Thrust
909B	271312		WASHER, Thrust
909	271417		WASHER, Thrust
910	394051		LEVER, Control -(Clutch)
911	223009		BRACKET, Clutch



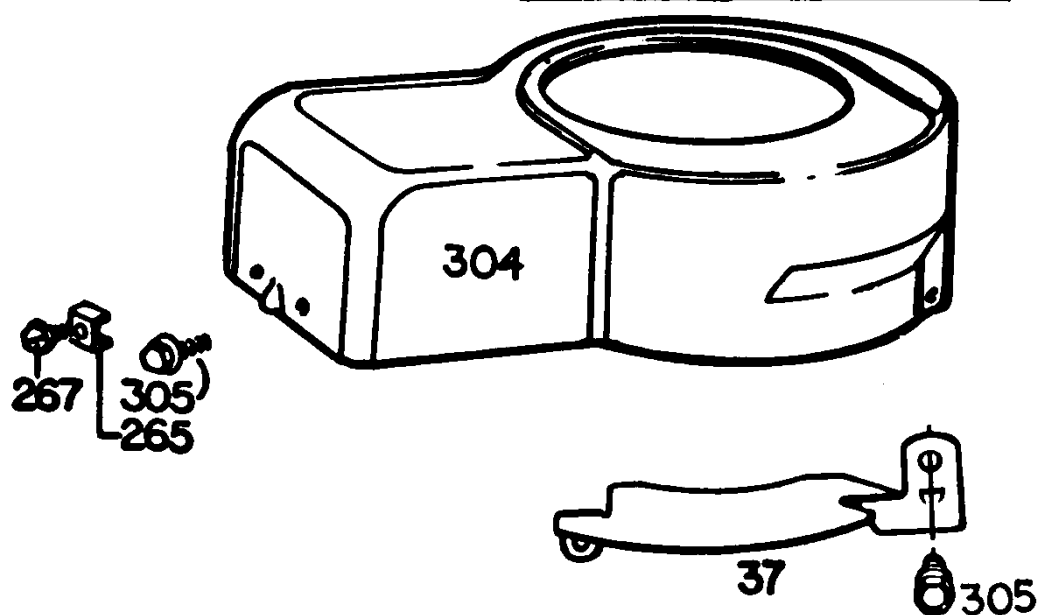
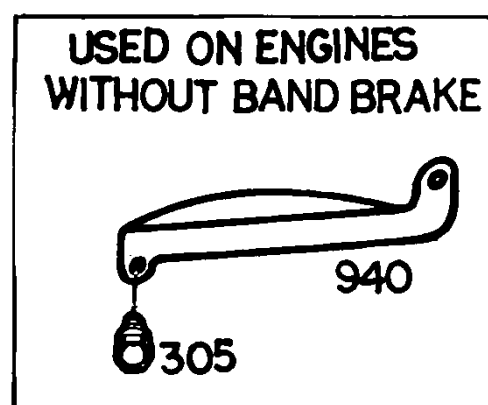
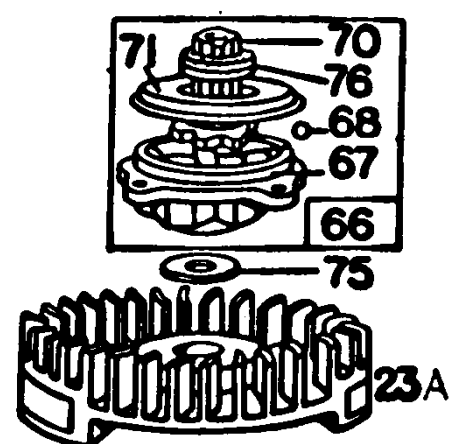
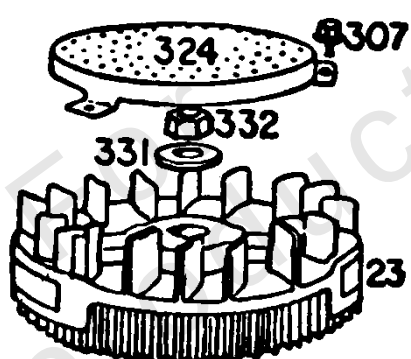
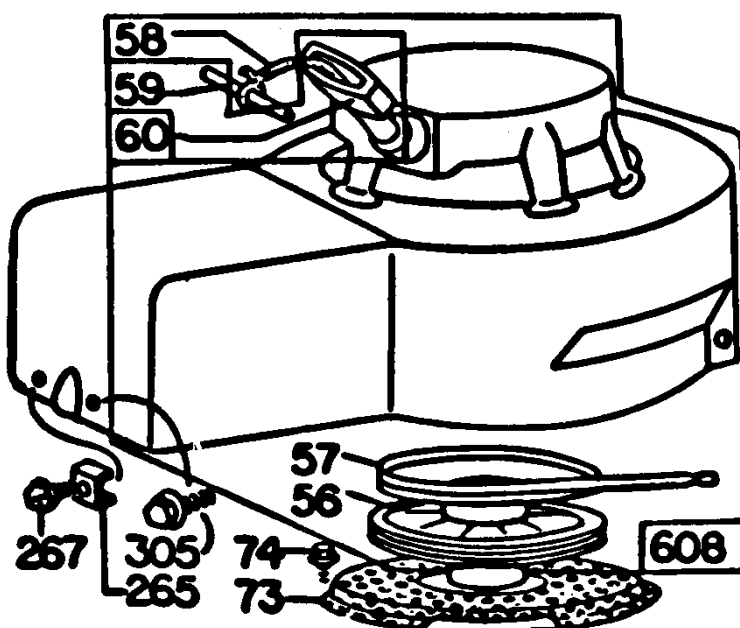
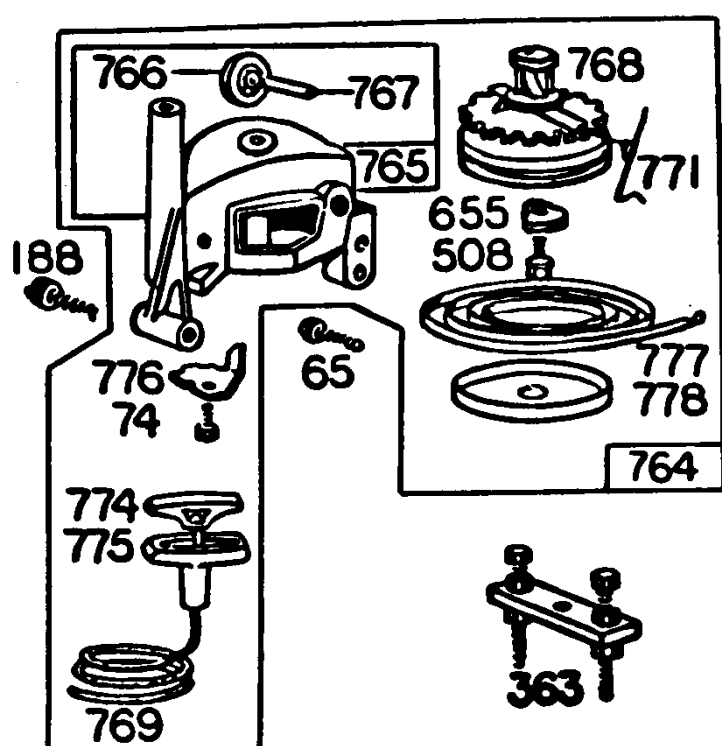
★ Special tools required to install.
See repair instruction manual



(2)Sump Bases & Right Angle Dr

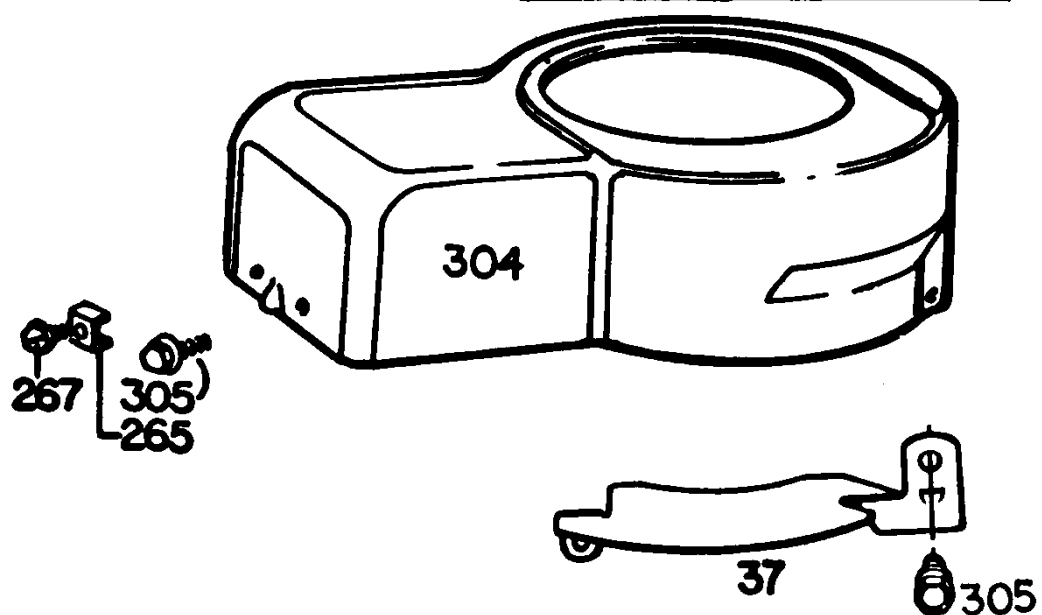
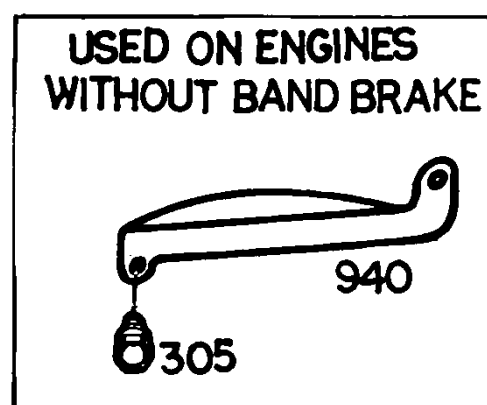
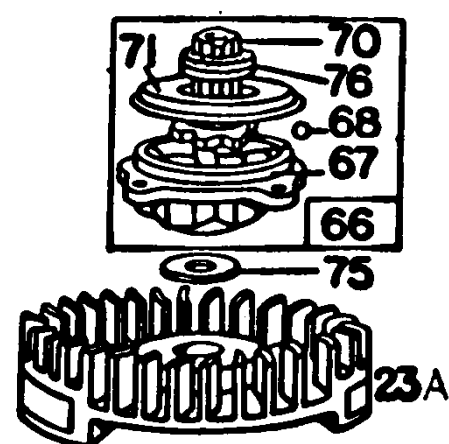
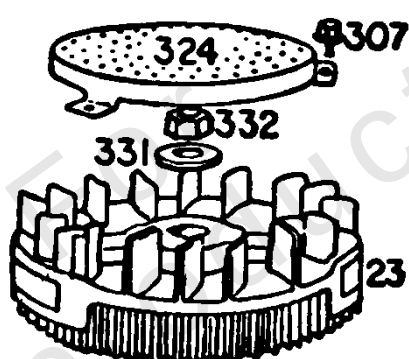
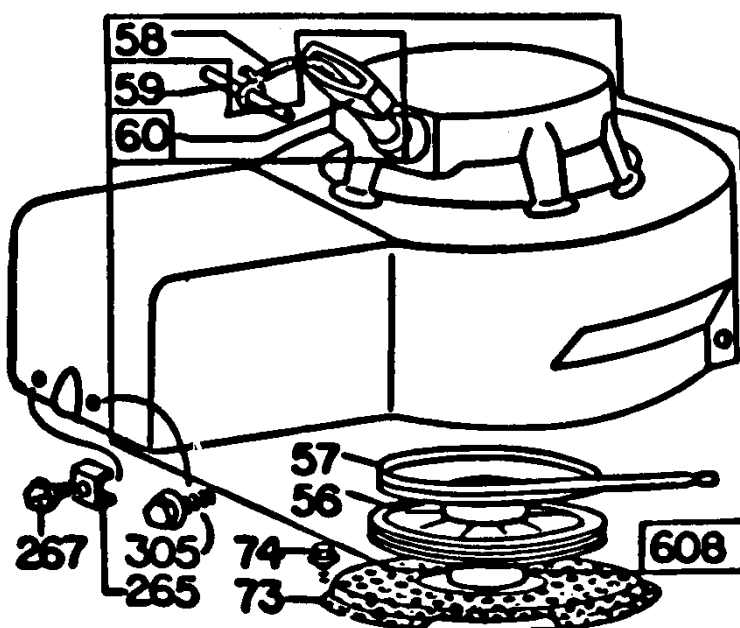
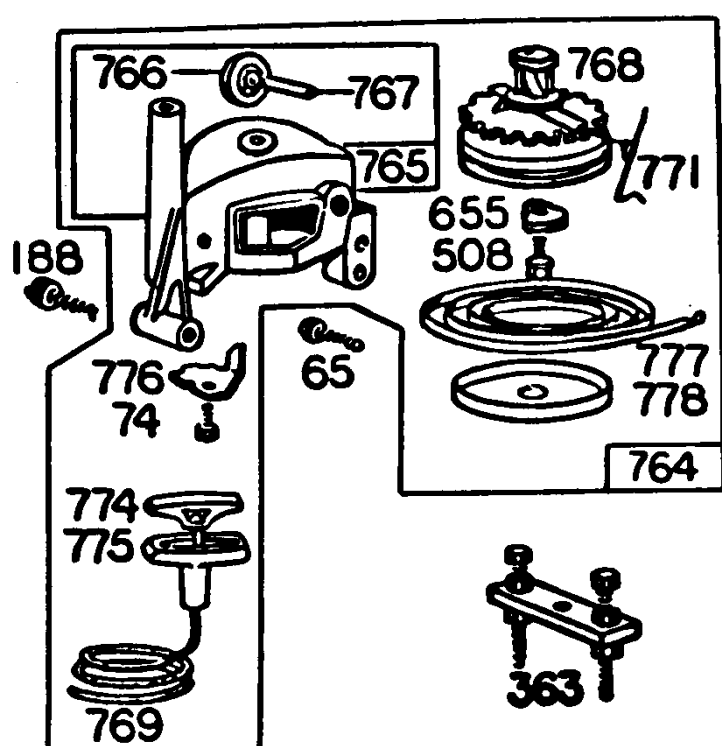
REF NO	PART NO	QTY	DESCRIPTION
914	93970		SCREW

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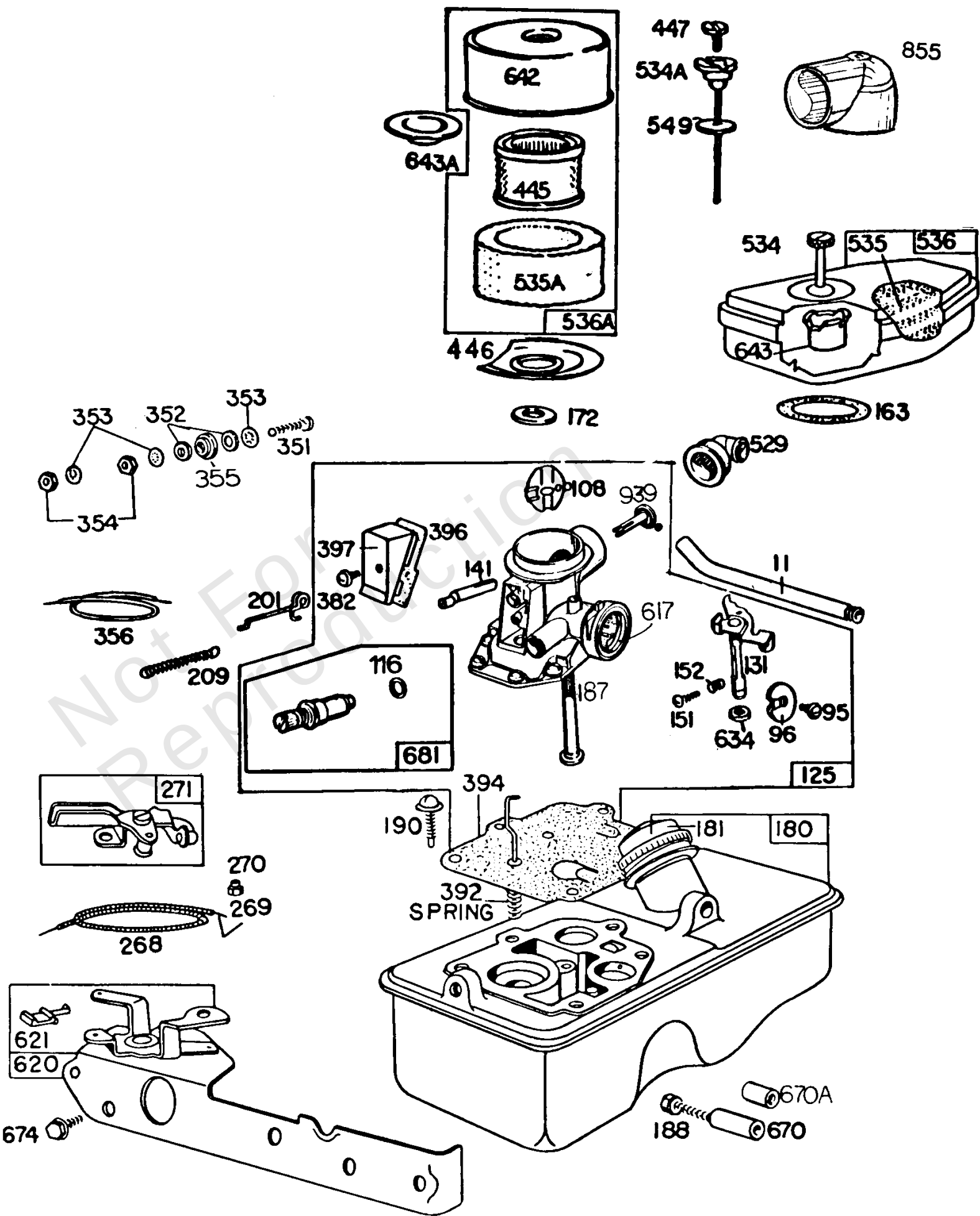
Blower Hsgs, Vertical Pull

REF NO	PART NO	QTY	DESCRIPTION
23A	395653		FLYWHEEL
23	395578		FLYWHEEL
37	223150		GUARD, Flywheel -(Muffler Side)
56	280117		PULLEY, Rope Starter
57	294303		SPRING, Rewind Starter
58	280406		ROPE, Starter -(Cut To Required Length) If longer rope is needed, Order No. 280399 (99) and cut to required length. Order 66734 for 48-5/8 rope.
59	230228		PIN, Starter Grip
60	393152		GRIP-STARTER ROPE
65	93587		SCREW -(1/4-20 X 1)
66	394558		CLUTCH, Starter -(engines w/Ring Gear on Flywheel equipped for Electric Start)
67	394897		HOUSING, Clutch
68	63770		BALL, Clutch
70	298436		RATCHET, Clutch
71	221653		WASHER
73	221661		SCREEN, Rotating -(Rewind Starter)
74	93490		SCREW -Included in Starter Drive Kit-Part No. 395727
75	220865		WASHER -(Heavy Flywheel)
75	223047		WASHER -(Flywheel)
76	68238		SEAL, Ratchet
188	93585		SCREW -(Crankcase Cover)
265	22372		CLAMP, Casing
267	93469		SCREW
304	-----		No Nomenclature -For Blower Housing With Rewind Starter, See Ref. No. 608
305	93559		SCREW -(Tank) (Fuel Tank)
307	93490		SCREW -(Rotating Screen)
324	223006		SCREEN, Rotating
331	220865		WASHER -(Heavy Flywheel)
331	223047		WASHER -(Flywheel)
332	92284		NUT -(Flywheel)
363	19069		PULLER, Flywheel
508	93158		SCREW -(1/4-20 X 5/8)
608	394928		STARTER, Rewind -(9 O'clock) (Compliance Engines)
608	395231		STARTER, Rewind -(6 O'clock)
608	395240		STARTER, Rewind -(1:30 O'clock) (Compliance Engines) Desinates Rope Length of 48-5/8
608	395311		KIT, Electric Starter -(1:30 O'clock) (Compliance Engines)
608	395576		STARTER, Rewind -(12 O'clock) (Compliance Engines)



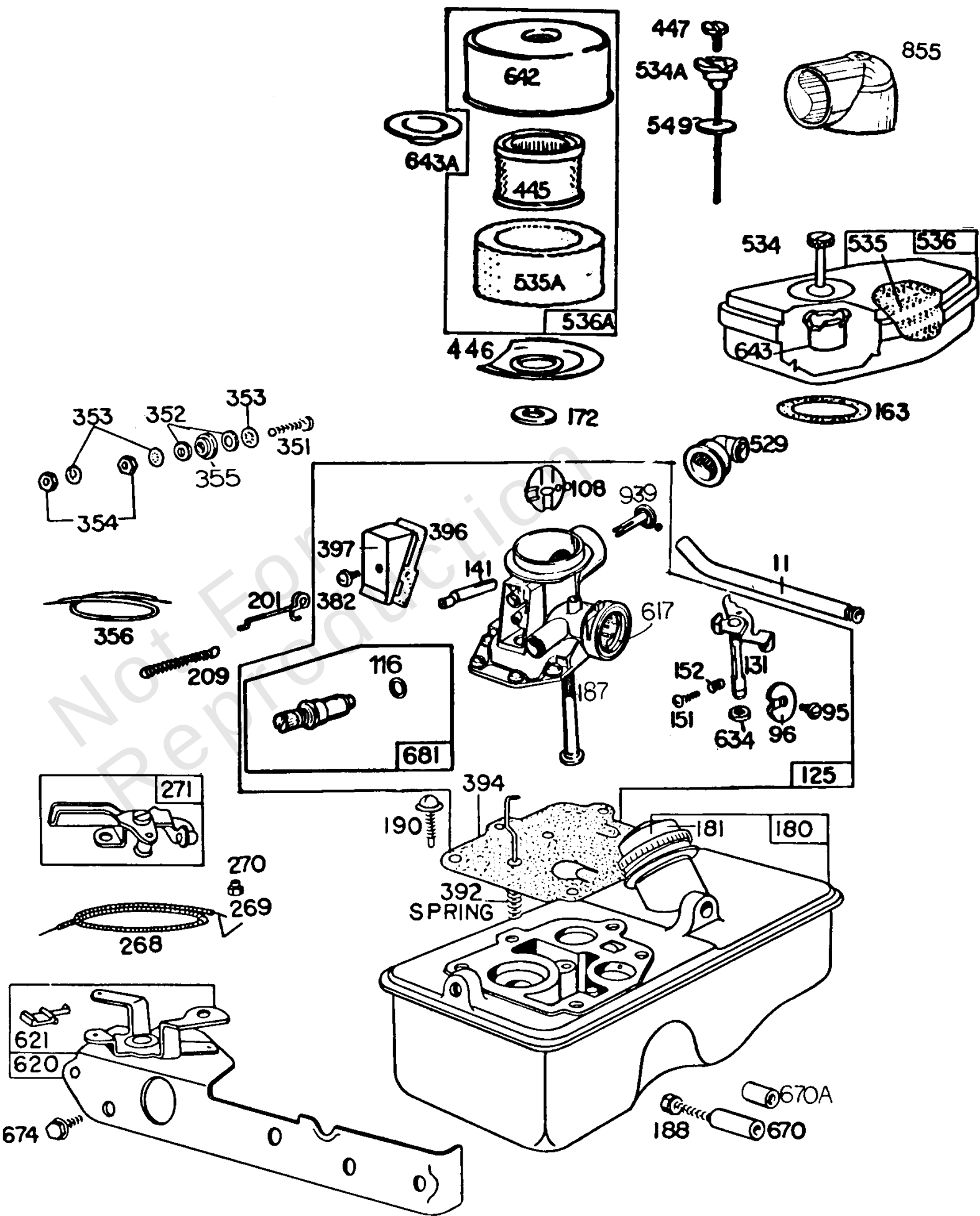
Blower Hsgs, Vertical Pull

REF NO	PART NO	QTY	DESCRIPTION
655	222057		ANCHOR, Spring
766	280022		PULLEY, Rope Guide
767	231048		PIN, Retainer -(7/16)
769	66904		ROPE, Starter -(79) If longer rope is required, Order No. 280399 (99) and cut to required length. Order 66734 for 48-5/8 rope.
771	299961		CLIP -(Vertical Pull Starter)
774	280121		INSERT, Grip
775	280036		GRIP, Starter Rope
776	222049		GUIDE, Rope
777	390066		SPRING, Vertical Rewind Starter
778	280021		COVER, Vertical Pulley
940	222403		GUARD, Flywheel



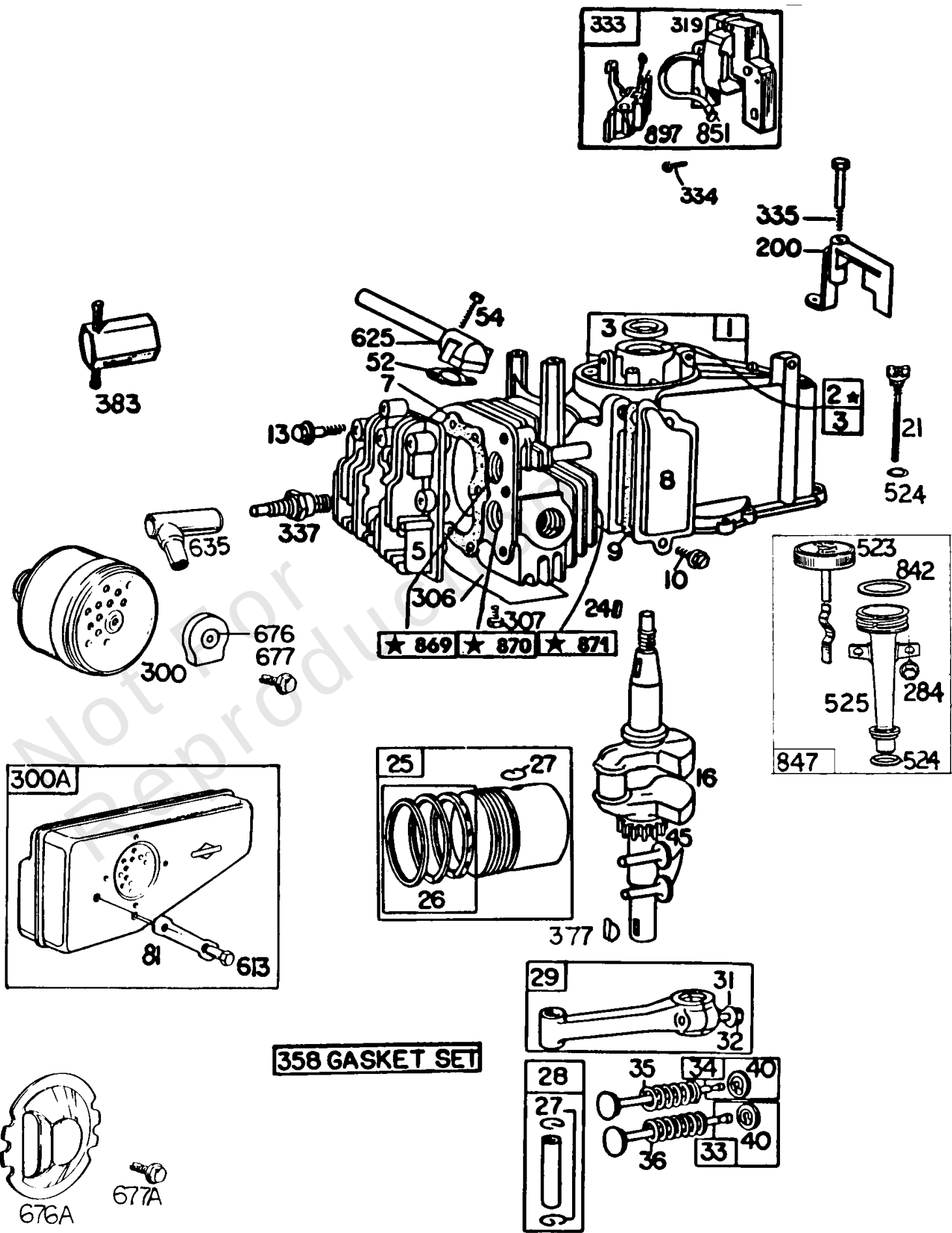
Carburetor, Fuel Tank, A/C Grp.

REF NO	PART NO	QTY	DESCRIPTION
11	231272		TUBE, Breather
95	93499		SCREW -(Throttle Valve)
96	211203		VALVE, THROTTLE
108	280370		VALVE, Choke
116	280203		SEAL, O-Ring -(Fuel Shut Off)
125	395375		CARBURETOR -(Air Vane)
131	394588		SHAFT, Throttle
141	68908		SHAFT, Choke
151	93524		SCREW -(5-40 X 1/2)
152	260746		SPRING, Throttle Return
163	271139		GASKET, Air Cleaner -(Above Spacer)
172	271077		SPACER, Air Cleaner
180	393113		TANK, Fuel
181	298425		CAP, Fuel Tank -(Metal)
187	393001		TUBE, Pick Up -(Minlon Body)
188	93585		SCREW -(Crankcase Cover)
190	93440		SCREW
201	261027		LINK, Air Vane
209	260875		SPRING, Governor -(3400 to 3600 RPM Top Speed Set-No Load)
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
351	93735		SCREW
352	66068		WASHER -(Fiber)
353	92791		WASHER
354	90576		NUT -(Ground Terminal)
355	66554		WASHER -(Insulating)
356	395558		WIRE, Stop
382	93864		SCREW
392	261016		SPRING, Pump Diaphragm
394	299637		DIAPHRAGM, Carburetor
396	270571		GASKET, Choke Cover
397	211678		COVER, Choke Link
445	392308		FILTER, A/C Cartridge
446	222844		BASE, Air Cleaner
447	93817		SCREW
529	280368		GROMMET -(Breather)
534A	94005		SCREW -(Air Cleaner)



Carburetor, Fuel Tank, A/C Grp.

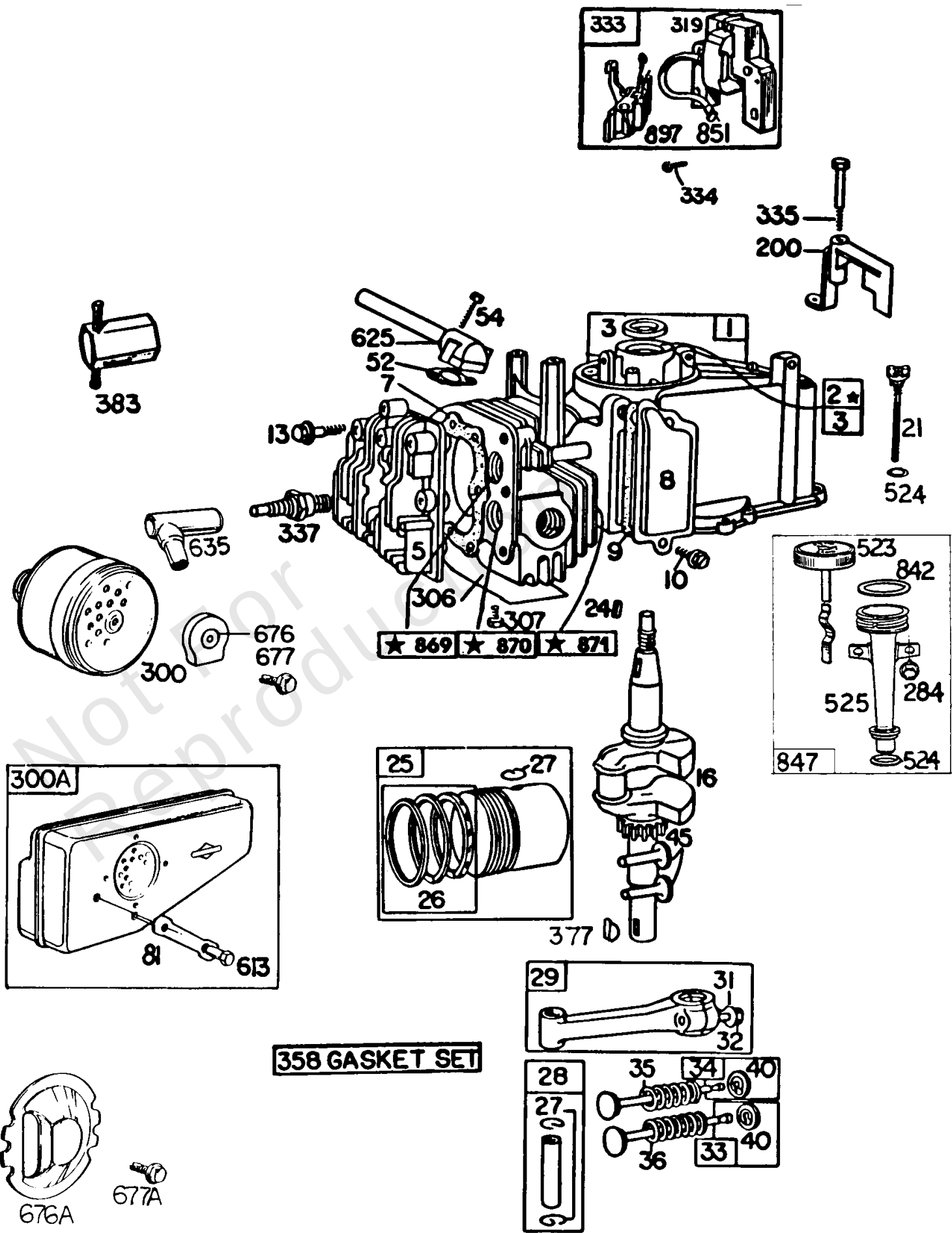
REF NO	PART NO	QTY	DESCRIPTION
534	93865		SCREW -(Air Cleaner)
535A	271466		FILTER, Pre Cleaner
535	270579		FILTER, Air Cleaner Foam -(2-slanted Sides)
536A	392368		CLEANER, Air
536	390055		CLEANER, Air
549	270978		WASHER -(Below Internal Screw Head)
617	270344		SEAL, O-Ring -(Intake Manifold)
620	299974		BRACKET, Control
621	297472		SWITCH, Stop
634	270167		SEAL, Choke/Throttle Shaft -(Felt)
642	222626		COVER, Air Cleaner
643A	222594		SUPPORT, Foam Element -(1/4 Deep)
643	280374		RETAINER, Air Filter
670A	94047		SPACER, Fuel Tank -(Non Compliance Engines)
670	94038		SPACER, Fuel Tank -(Compliance Engines)
674	93158		SCREW -(1/4-20 X 5/8)
681	395508		VALVE, High Speed -(Nylon Body)
855	211982		ADAPTER, Air Cleaner
939	394929		KIT, Choke Shaft



★NOTE-SPECIAL TOOLS REQUIRED FOR INSTALLING
SEE REPAIR INSTRUCTION MANUAL

Cylinder,Mufflers,Piston Grp

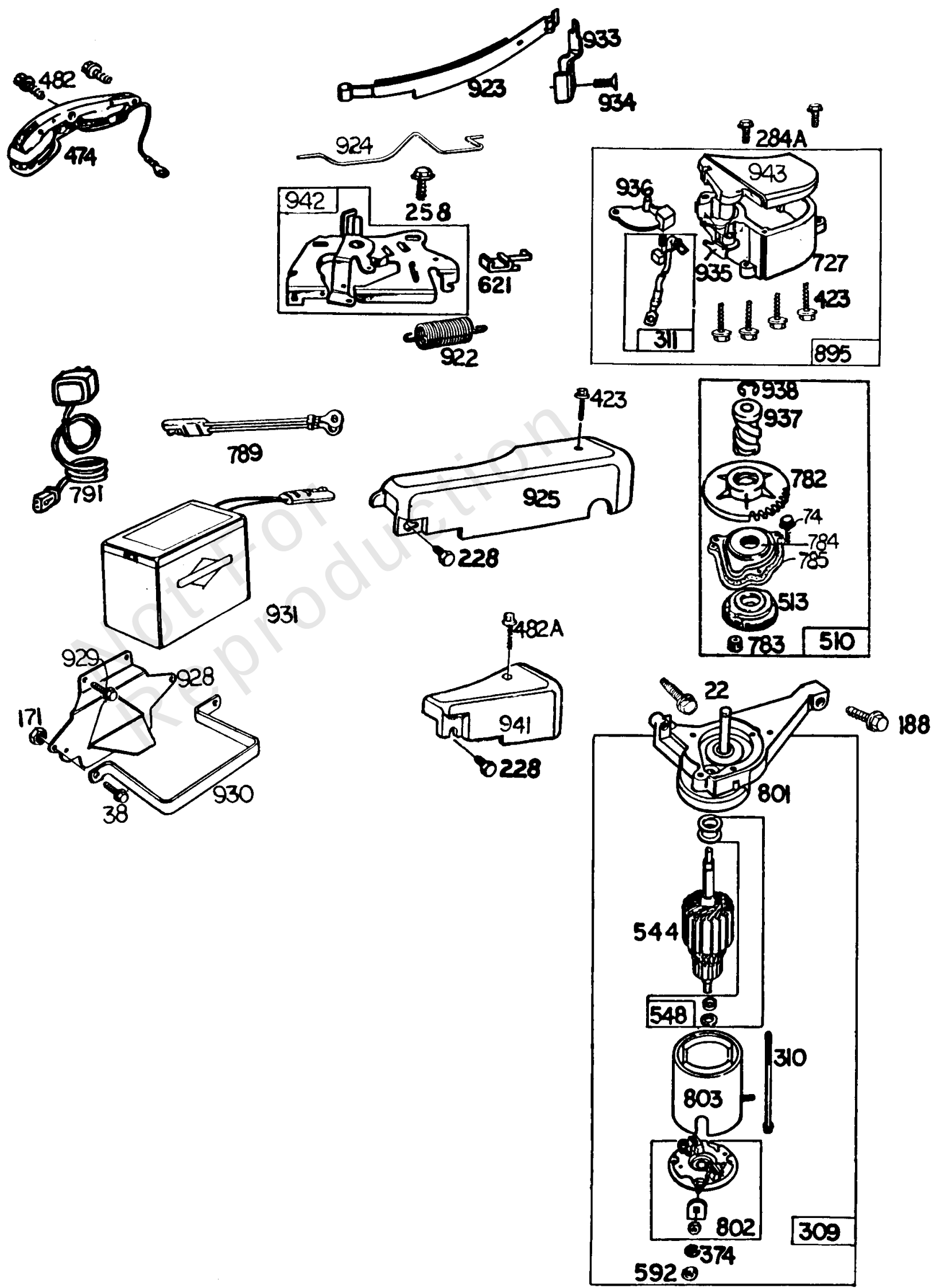
REF NO	PART NO	QTY	DESCRIPTION
1	395373		CYLINDER ASSEMBLY
2	293708		KIT, Bushing/Seal -(Plain Bearing)
3	299819		SEAL, Oil -(Plain Bearing)
5	211479		HEAD, Cylinder
7	270341		GASKET, Cylinder Head -Included in Gasket Set-Part No. 298989
8	298383		BREATHER ASSEMBLY
9	270239		GASKET, Rocker Cover -Included in Gasket Set-Part No. 298989
10	93394		SCREW
13	93111		SCREW -(15/16)
16	260124		CRANKSHAFT
21	280381		PLUG
24	222698		KEY, Flywheel
25	298904		PISTON ASSEMBLY -(Standard)
25	298905		PISTON ASSEMBLY -(.010 Oversize)
25	298906		PISTON ASSEMBLY -(.020 Oversize)
25	298907		PISTON ASSEMBLY -(.030 Oversize)
26	298982		RING SET-STD -(Standard)
26	298983		SET, Ring -(.010 Oversize)
26	298984		RING SET-020 -(.020 Oversize)
26	298985		SET, Ring -(.030 Oversize)
26	299742		SET, Ring -(Standard)
27	26026		LOCK, Piston Pin
28	298908		PIN, Piston -(.005 Oversize)
28	298909		PIN. Piston
29	294201		ROD, Connecting -For Connecting Rod with .020 Undersize Crankpin Bore-Order No. 296079
31	222282		WASHER
32	92296		SCREW -(Connecting Rod)
33	296676		VALVE, Exhaust -(Grooved Stem-Includes Retainer)
34	296677		VALVE, Intake -(Grooved stem-includes Retainer)
35	260552		SPRING, Valve -(Exhaust)
36	26478		SPRING, Valve -(Exhaust)
40	230126		PIN, Retainer
40	292259		RETAINER, Valve -(Exhaust)
40	93312		RETAINER, Valve -(Valves With Groove In Stem)
45	230173		TAPPET, Valve



★NOTE-SPECIAL TOOLS REQUIRED FOR INSTALLING
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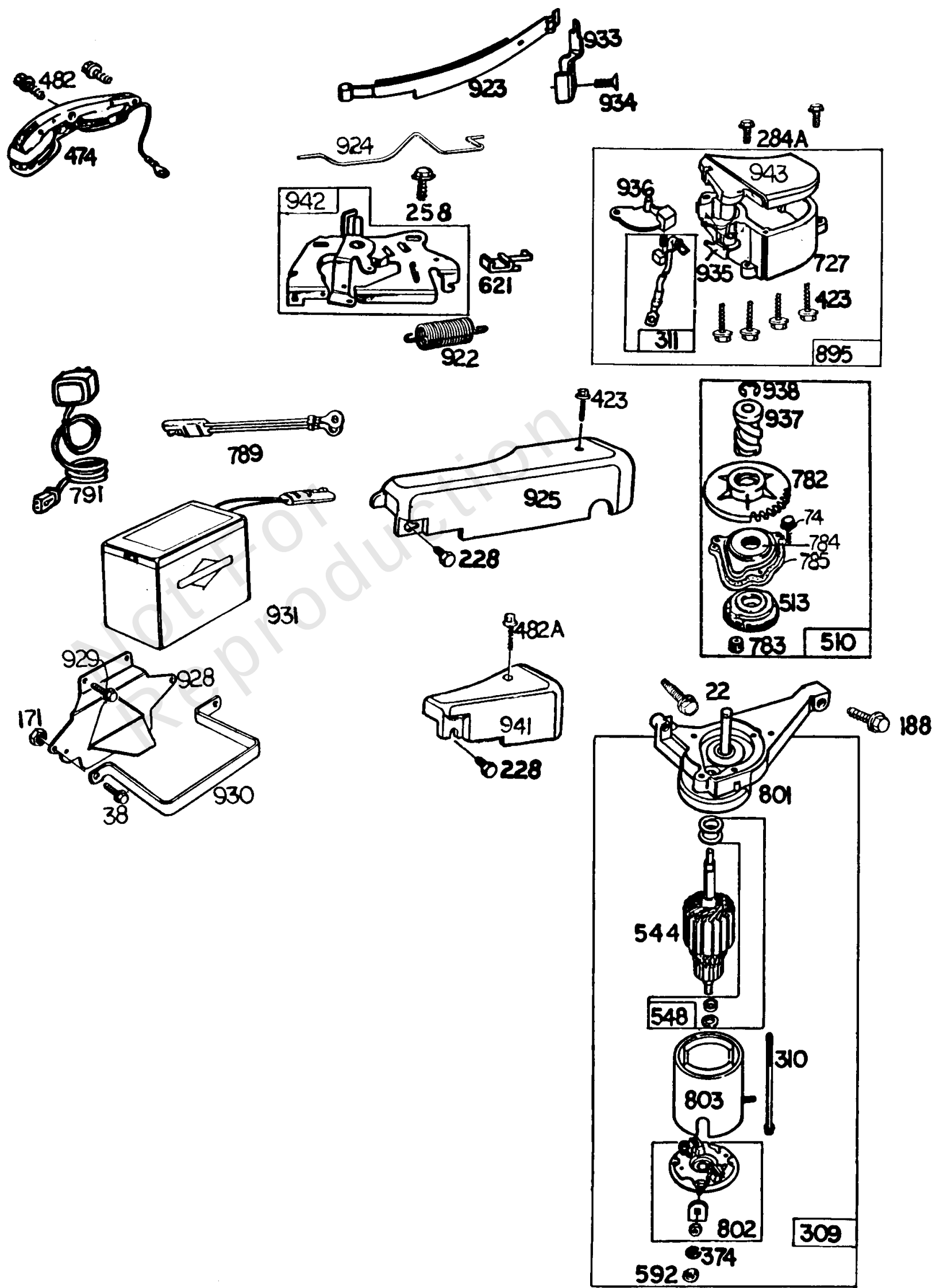
Cylinder,Mufflers,Piston Grp

REF NO	PART NO	QTY	DESCRIPTION
52	270345		GASKET, Intake -Included in Gasket Set-Part No. 298989
54	93485		SCREW
81	223256		LOCK, Rod Screw
200	68388		BLADE, Governor
284	93984		SCREW
300A	394644		MUFFLER
300	298830		MUFFLER -(2 1/2 O.D.)
306	221805		SHIELD, Cylinder
307	93490		SCREW -(Rotating Screen)
319	395488		ARMATURE, Magneto -(Less Trigger Coil)
333	395489		ARMATURE, Magneto -(Magnetron Ignition)
334	93381		SCREW
335	93435		SCREW
337	293918		PLUG, Spark
337	298809		PLUG, Spark
358	298989		GASKET SET, Engine
377	93065		KEY, Woodruff -(#6)
383	89838		WRENCH, Spark Plug
523	396372		DIPSTICK/CAP ASSEMBLY
524	271485		SEAL, O-Ring -(Dipstick Tube) (Oil Fill)
525	280382		TUBE, Dipstick
613	93935		SCREW -(Muffler)
625	298775		MANIFOLD, Intake
635	66538		BOOT, Spark Plug
676A	393756		DEFLECTOR, Muffler -(Side Outlet)
676	393755		DEFLECTOR, Muffler -(Side Outlet)
677A	93705		SCREW -(8-32 X 3/8)
677	93606		SCREW
842	270920		SEAL, O-Ring -(Dipstick Tube) (Oil Fill)
847	395869		TUBE, Dipstick
851	221798		TERMINAL, Spark Plug
869	210879		SEAT, Valve -(Intake)
870	211291		SEAT, Valve -(Exhaust)
871	63709		BUSHING, Valve Guide -(Intake)
897	394970		KIT, Magnetron Ignition



Electric Start, Misc. Elect.

REF NO	PART NO	QTY	DESCRIPTION
22	93032		SCREW -(Fuel Tank) (Tank)
38	93777		SCREW
74	93490		SCREW -Included in Starter Drive Kit-Part No. 395727
171	93203		NUT
188	93585		SCREW -(Crankcase Cover)
228	93490		SCREW -(Rotating Screen)
258	94018		SCREW
284A	93892		SCREW
309	395852		MOTOR, Starter -(6 Volt) (Black Insulator)
309	396384		MOTOR, Starter -(6 Volt) -Used Before Code Date 82040100
310	94051		SCREW
311	395728		SET, Brush
374	92813		WASHER
423	94026		SCREW
474	394529		ALTERNATOR
482A	93621		SCREW -(Tapping)
482	94016		SCREW
510	395727		DRIVE, Starter
513	394815		CLUTCH, Starter -Included in Starter Drive Kit-Part No. 395727
544	396058		ARMATURE, Starter -(6 Volt)
548	396067		WASHER -(Starter Motor)
592	231082		NUT -(Governor Control)
621	297472		SWITCH, Stop
727	280336		GUARD, Flywheel
782	280038		GEAR, Starter Drive -Included in Starter Drive Kit-Part No. 395727
783	261606		GEAR, Starter Drive -Included in Starter Drive Kit-Part No. 395727
784	223132		HOUSING, Blower -(Electric Starter) Included in Starter Drive Kit-Part No. 395727
785	271457		GASKET, Gear Cover/Housing -Included in Starter Drive Kit-Part No. 395727
789	395602		HARNESS, Wiring -(14, For Remote Mount Battery)
789	395624		HARNESS, Wiring -(4-1/2) (4 1/2)
791	395569		CHARGER, Battery -(120 Volt) (6 Volt Battery)
791	395585		CHARGER, Battery -(240 Volt) (6 Volt Battery)
801	395851		CAP, Drive
801	396387		CAP, Drive -Used Before Code Date 82040100
802	396061		CAP, End
803	396059		HOUSING, Starter



Electric Start, Misc. Elect.

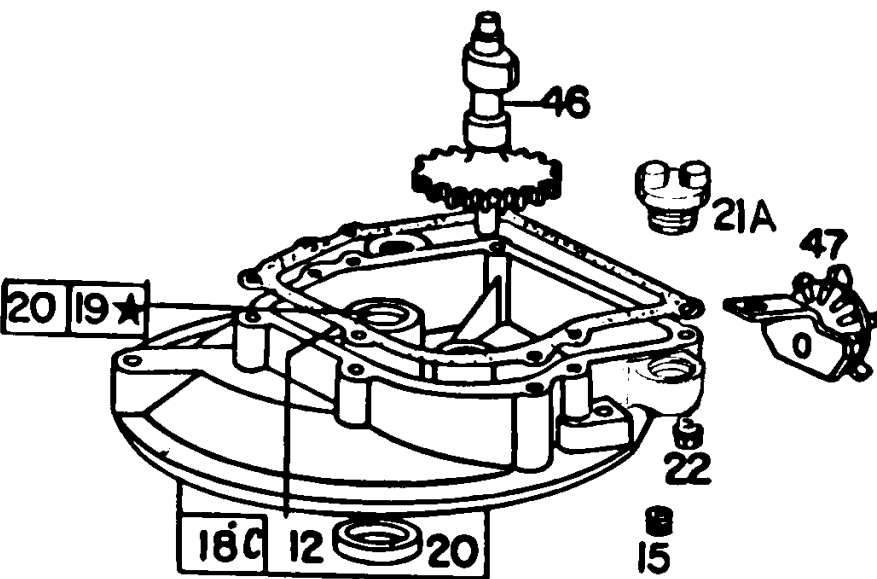
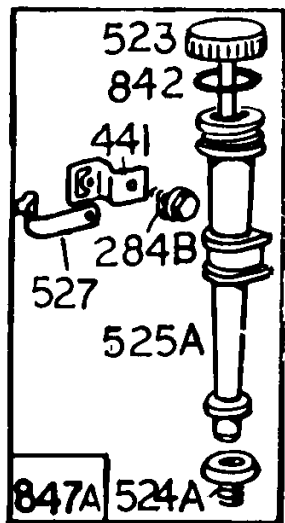
REF NO	PART NO	QTY	DESCRIPTION
895	394767		SWITCH, Starting
922	261647		SPRING, Governor -(Return)
923	394867		PIVOT, Band Brake
924	261881		LINK, Starter Switch
925	280363		COVER, Linkage
928	223162		BRACKET, Battery
929	93980		SCREW -(Fuel Tank) (Tank)
930	223161		BRACKET, Support
931	395559		BATTERY -(6 Volt)
933	223187		PIVOT, Band Brake
934	94037		SCREW
935	223128		SWITCH, Interlock
936	280338		SWITCH, Actuator
937	280366		SPLINE, Starter -Included in Starter Drive Kit-Part No. 395727
938	93941		RETAINER, E Ring -Included in Starter Drive Kit-Part No. 395727
941	280395		COVER, Linkage
942	395393		LEVER/PLATE, Throttle -(Compliance Engines)
943	280322		COVER, Starter

Replacement Engine - US & Canada

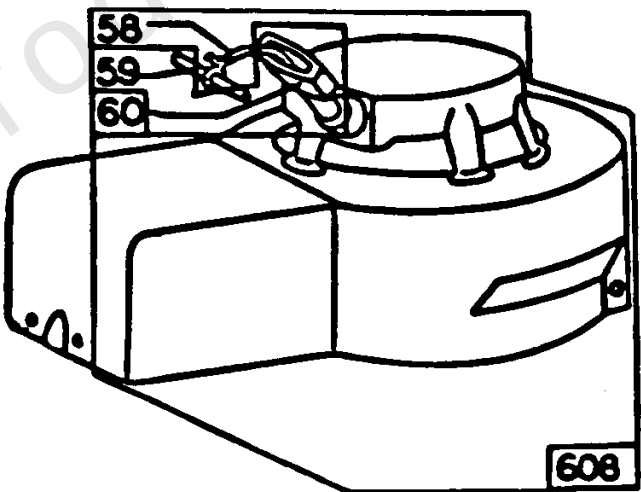
REF NO	PART NO	QTY	DESCRIPTION
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Sump assembly illustrated on this page includes an oil filler opening.



★NOTE-SPECIAL TOOLS REQUIRED FOR INSTALLING
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	—	—	—

(48) Designates Rope Length of 48-5/8"

Sump Base, Blower Hsg. Chart

REF NO	PART NO	QTY	DESCRIPTION
12	270833		GASKET, Crankcase -(.015) Included in Gasket Set-Part No. 298989
12	270895		GASKET, Crankcase -(.005) Included in Gasket Set-Part No. 298989
12	270896		GASKET, Crankcase -(.009) Included in Gasket Set-Part No. 298989
15	93418		PLUG, Oil Drain -(Flush)
18C	394157		SUMP, Engine
19	293709		KIT, Bushing/Seal -(PTO Side)
20	391483		SEAL, Oil -(PTO Side)
21A	66768		PLUG, Oil -(Used with Engine Bases Which Have An Oil Fill Boss)
22	93032		SCREW -(Fuel Tank) (Tank)
46	394800		CAMSHAFT -(Metal)
47	294652		SLINGER, Governor/Oil
58	280406		ROPE, Starter -(Cut To Required Length) If longer rope is needed, Order No. 280399 (99) and cut to required length. Order 66734 for 48-5/8 rope.
59	230228		PIN, Starter Grip
60	393152		GRIP-STARTER ROPE
284B	93572		SCREW -(10-32 X 3/8)
441	222530		BRACKET, Oil Fill
523	396372		DIPSTICK/CAP ASSEMBLY
524A	68838		SEAL, O-Ring -(Dipstick Tube)
525A	280131		TUBE, Dipstick
527	222548		CLAMP, Hose
608	394928		STARTER, Rewind -(9 O'clock) (Compliance Engines)
608	395231		STARTER, Rewind -(6 O'clock)
608	395240		STARTER, Rewind -(1:30 O'clock) (Compliance Engines) Desinates Rope Length of 48-5/8
608	395311		KIT, Electric Starter -(1:30 O'clock) (Compliance Engines)
608	395576		STARTER, Rewind -(12 O'clock) (Compliance Engines)
842	270920		SEAL, O-Ring -(Dipstick Tube) (Oil Fill)
847A	392055		DIPSTICK/TUBE ASSEMBLY

