

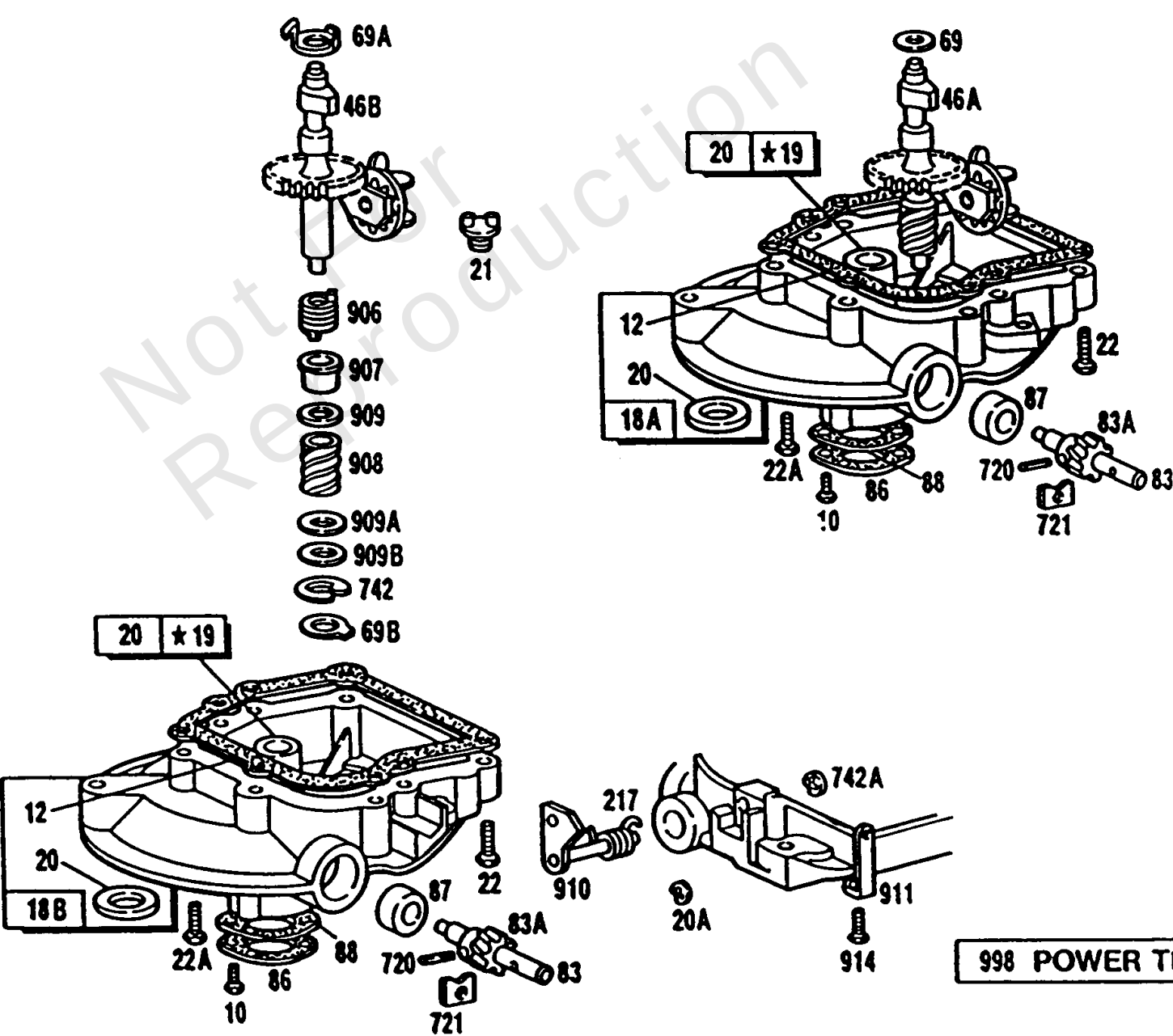
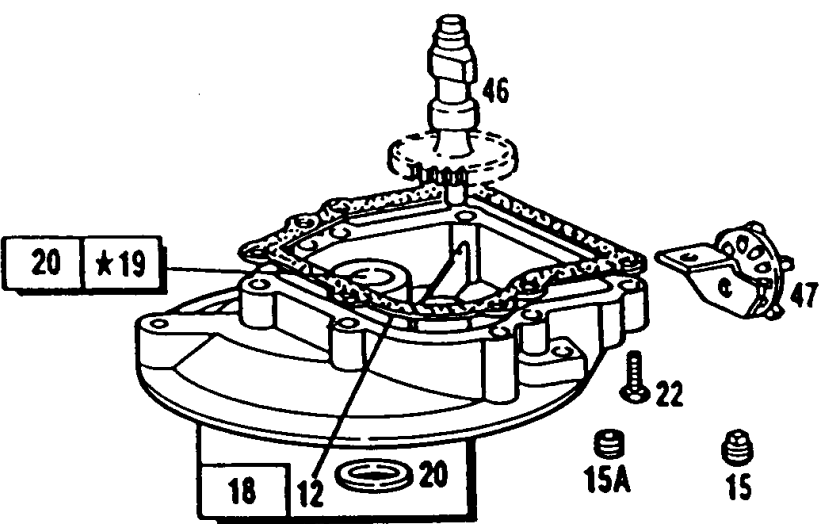


Parts Manual

Mfg. No: 110702-3103-01

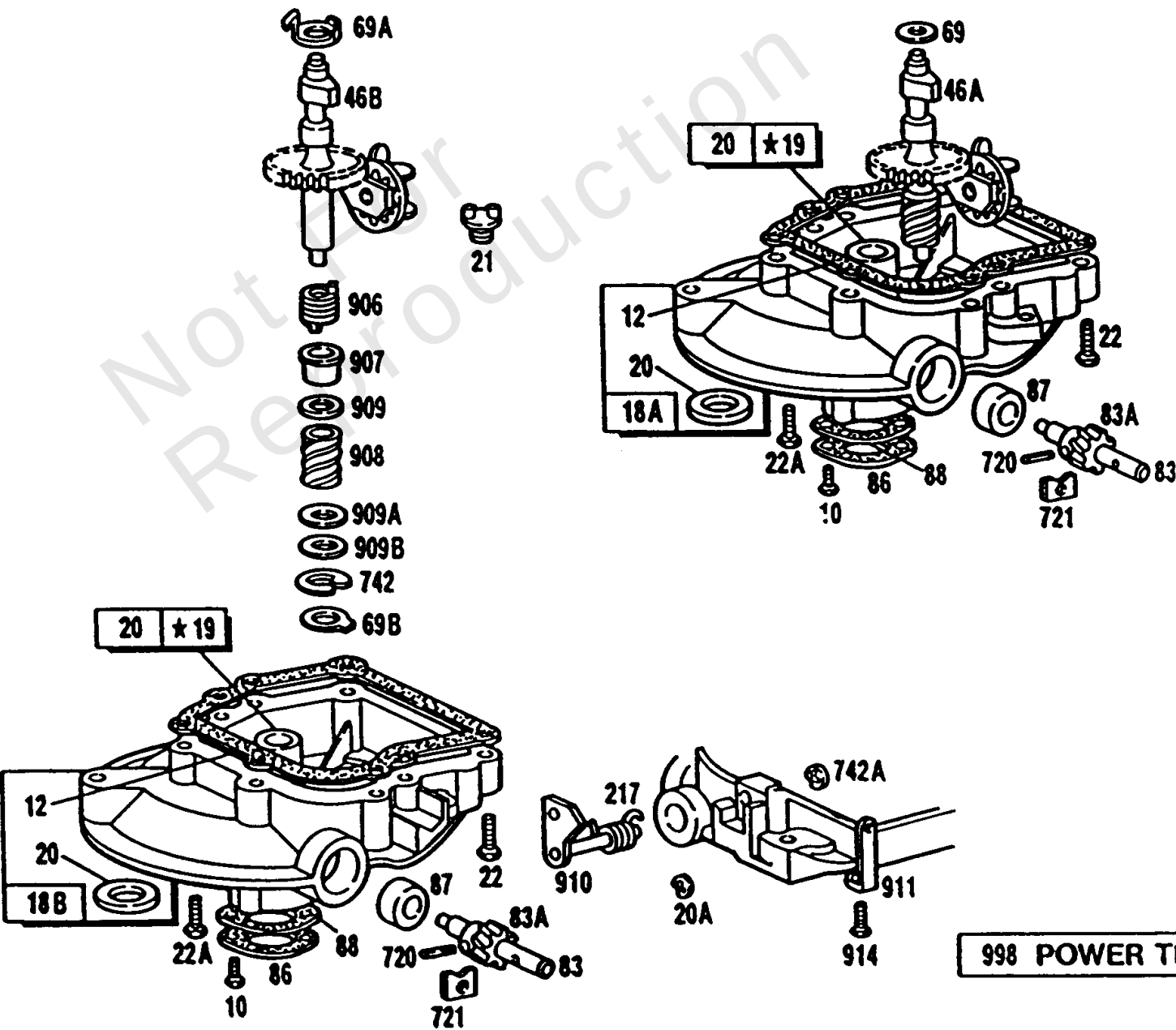
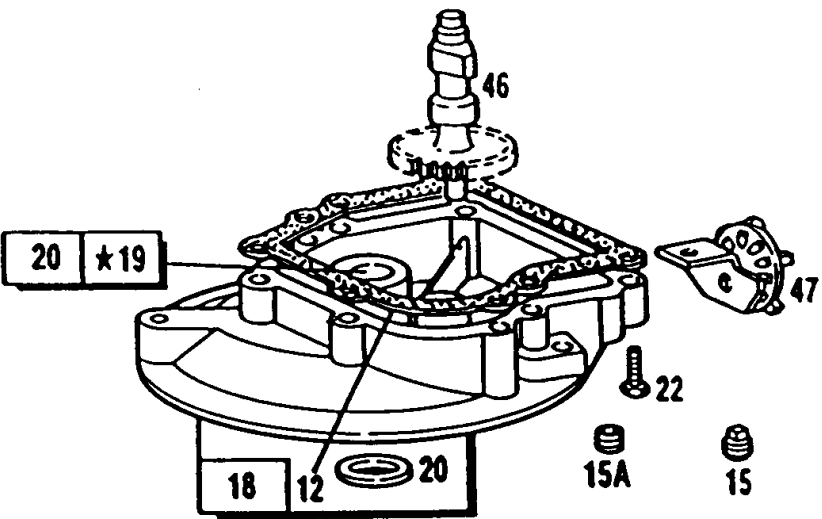
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(3)Sump Bases,Right Angle Dr

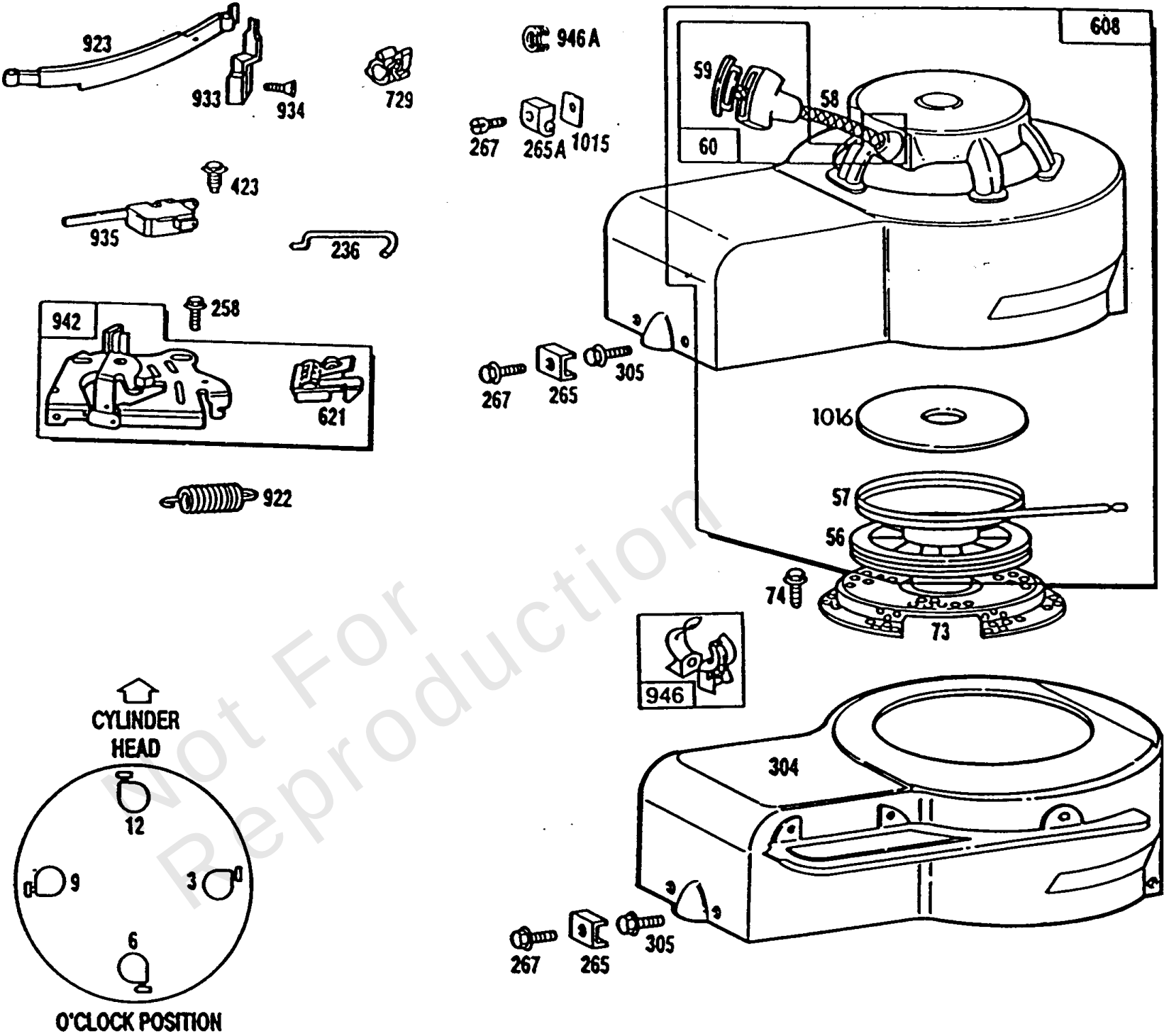
REF NO	PART NO	QTY	DESCRIPTION
10	93394		SCREW
12	270833		GASKET, Crankcase -(.015) Included in Gasket Set-Part No. 391662
12	270895		GASKET, Crankcase -(.005) Included in Carburetor Overhaul Kit-See Ref. No. 121
12	270896		GASKET, Crankcase -(.009) Included in Carburetor Overhaul Kit-See Ref. No. 121
15A	93418		PLUG, Oil Drain -(Flush)
15	91084		PLUG, Oil Drain -(3/8)
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)
20	391484		SEAL, Oil -(1/2 Auxiliary Drive Shaft)
21	66768		PLUG, Oil
22	93032		SCREW -(Fuel Tank) (Tank)
46A	395904		CAMSHAFT
46B	396036		CAMSHAFT -(Clutch)
46	395856		CAMSHAFT
47	294652		SLINGER, Governor/Oil
69A	223011		WASHER
69B	223228		WASHER, Thrust
69	66874		WASHER, Thrust -(11/16 O.D. X 15/32 I.D.)
69	68938		WASHER -(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
217	261520		SPRING, Return -(Clutch Lever)
720	93474		PIN, Shaft
721	221779		STOP, Shaft
742A	93925		RETAINER -(Clutch Lever)
742	93525		RETAINER, E Ring
906	261650		SPRING, Torsion
907	394871		SLEEVE, Clutch
908	231220		GEAR, Worm
909B	271312		WASHER, Thrust
909A	271418		WASHER, Thrust
909	271417		WASHER, Thrust
910	394051		LEVER, Control -(Clutch)



(3)Sump Bases,Right Angle Dr

REF NO	PART NO	QTY	DESCRIPTION
911	223009		BRACKET, Clutch
914	93970		SCREW
998	399634		HARNESS, Power

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REWIND STARTER ASSEMBLIES WITHOUT BAND-BRAKE
CLOCK POSITIONS

3	5	6	9	12
490717	399771	*490509	*398378	398180

*See Text for Specials.

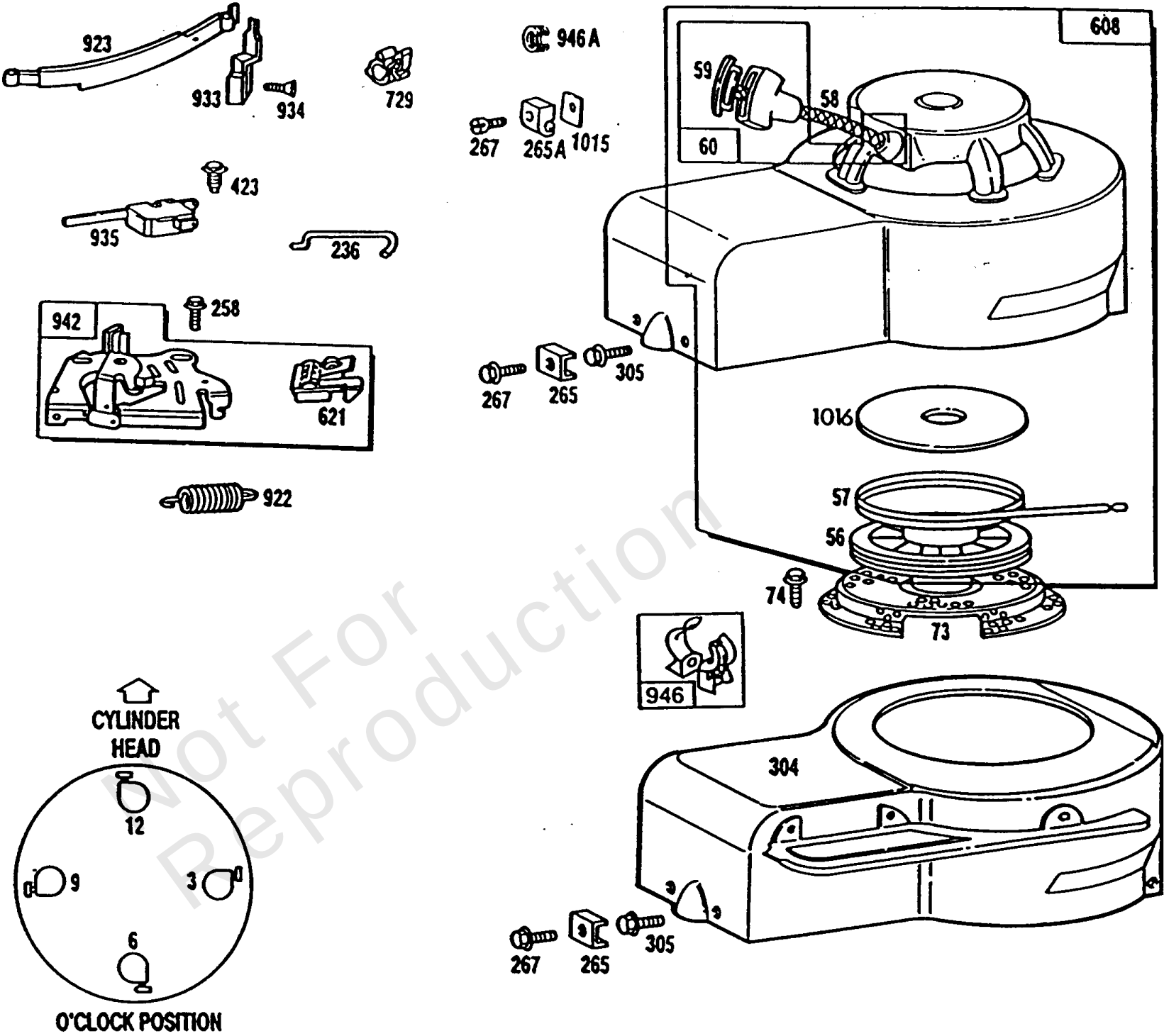
REWIND STARTER ASSEMBLIES WITH BAND-BRAKE
CLOCK POSITIONS

1:00	3	5	6	9	11	12
399557	398594	399516	*398176	398005	*490985	*398004

*See Text for Specials.

Blower Hsgs,Rewind,Brake

REF NO	PART NO	QTY	DESCRIPTION
56	280439		PULLEY, Rope Starter
57	490179		SPRING-REWIND STR
58	280406		ROPE, Starter -(Cut To Required Length) If longer rope is needed, Order No. 280399 and cut to required length. Order 66734 for 48-5/8 long rope.
59	396892		INSERT-GRIP
60	393152		GRIP-STARTER ROPE
73	221661		SCREEN, Rotating -(Rewind Starter)
74	93490		SCREW -(Rotating Screen)
236	262461		LINK, Lockout
258	94018		SCREW
265A	213146		CLAMP, Casing
265	221535		CLAMP, Casing -(Stamped Steel)
267	93686		SCREW -(10-32 X 5/8)
305	94153		SCREW
423	93758		SCREW -(Rotating Screen)
608	398004		STARTER, Rewind -(12 O'clock)
608	398005		STARTER, Rewind -(9 O'clock)
608	398176		STARTER, Rewind -(6 O'clock)
608	398180		STARTER, Rewind -(12 O'clock) (Non Compliance Engines)
608	398378		STARTER, Rewind -(9 O'clock) (Non Compliance Engines)
608	398594		STARTER, Rewind -(3 O'clock) (Compliance Engines)
608	399516		STARTER, Rewind -(5 O'clock) (Compliance Engines)
608	399557		STARTER, Rewind -(1 O'clock) (Compliance Engines)
608	399771		STARTER, Rewind -(5 O'clock) (Non Compliance Engines)
608	490509		STARTER, Rewind -(6 O'clock)
608	490717		STARTER, Rewind -(3 O'clock) (Non Compliance Engines)
608	490985		STARTER, Rewind -(11 O'clock) (Compliance Engines)
621	396847		SWITCH, Stop
729	280470		CLIP, Wire
922	261647		SPRING, Governor -(Return)
923	394867		PIVOT, Band Brake
933	223448		PIVOT, Band Brake
934	94037		SCREW
935	398758		SWITCH, Interlock -(12 Volt)
942	493248		BRACKET, Brake
946A	223294		STOP, Rope
946	396526		GUIDE, Rope



REWIND STARTER ASSEMBLIES WITHOUT BAND-BRAKE
CLOCK POSITIONS

3	5	6	9	12
490717	399771	*490509	*398378	398180

*See Text for Specials.

REWIND STARTER ASSEMBLIES WITH BAND-BRAKE
CLOCK POSITIONS

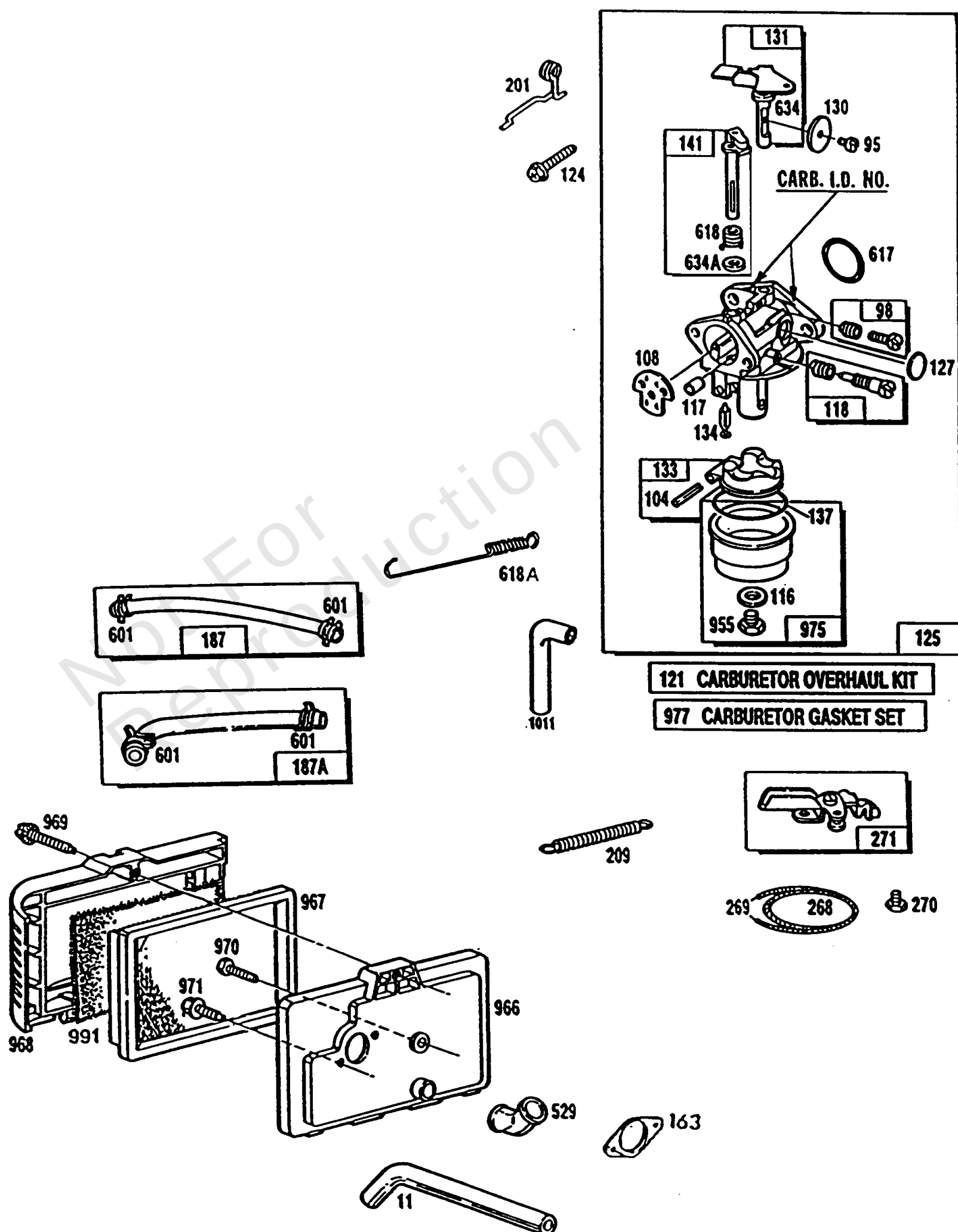
1:00	3	5	6	9	11	12
399557	398594	399516	*398176	398005	*490985	*398004

*See Text for Specials.

Blower Hsgs,Rewind,Brake

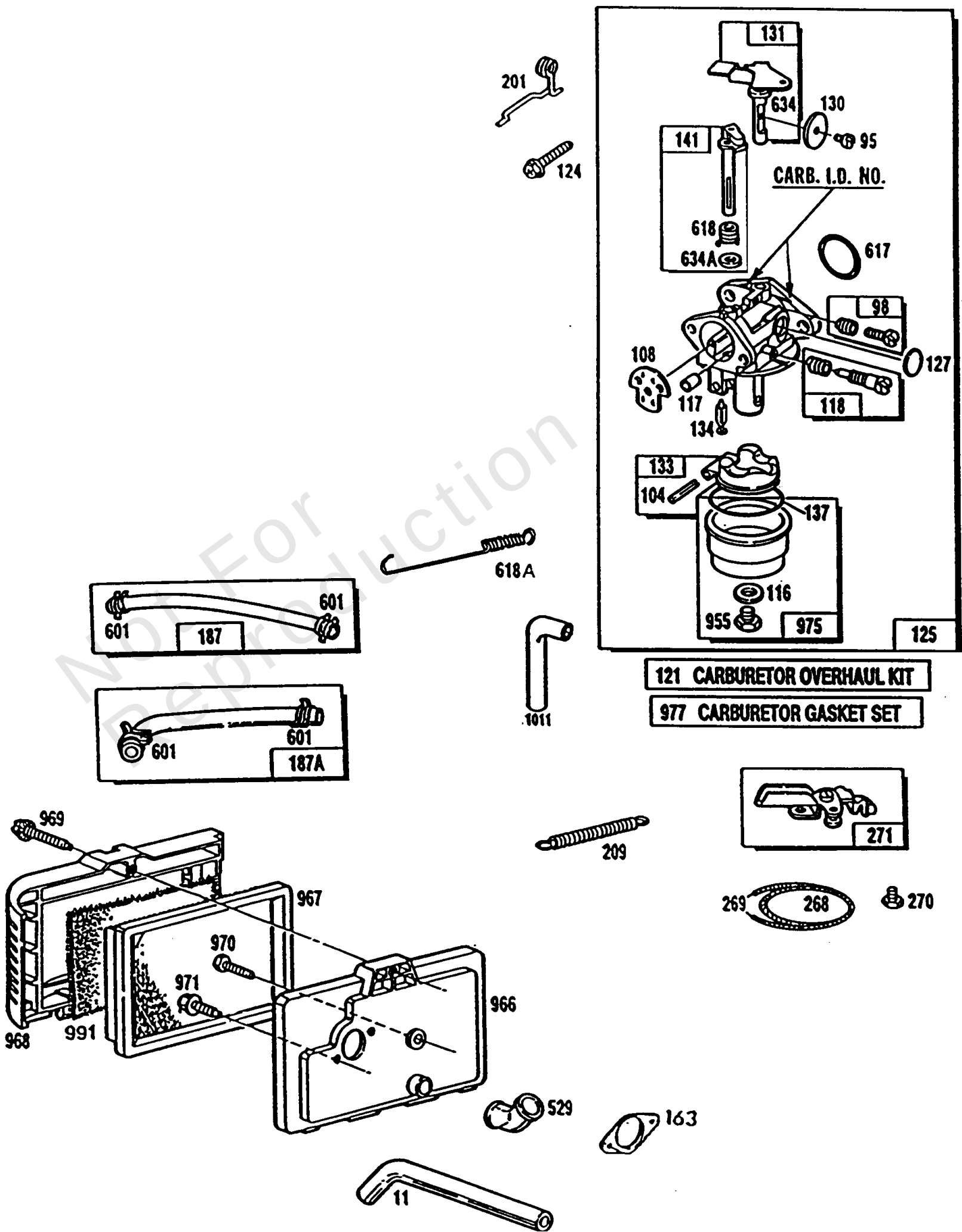
REF NO	PART NO	QTY	DESCRIPTION
1015	223649		PLATE, Casing Clamp
1016	490817		SPACER-REWIND -(Rewind)

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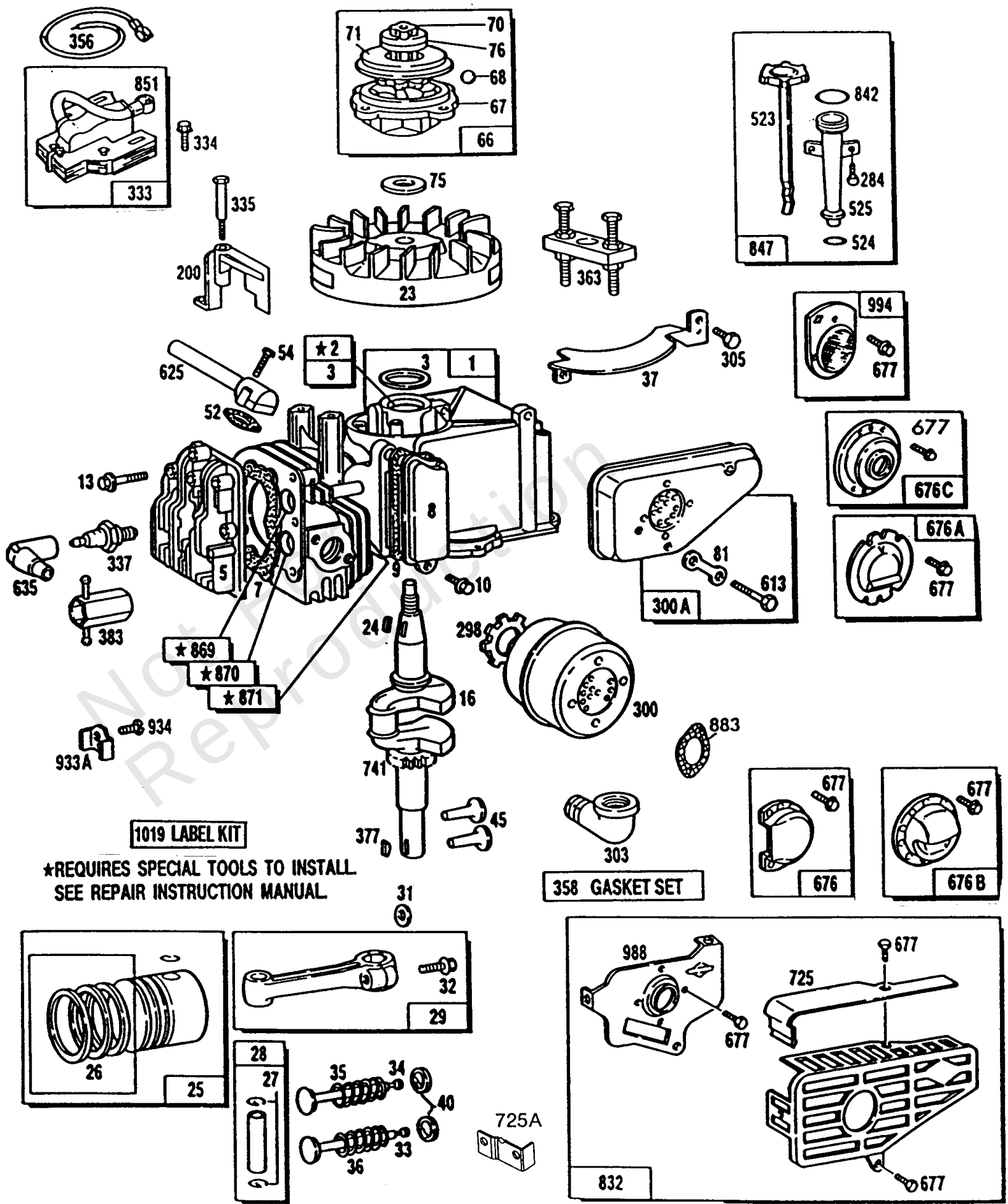
Carburetor, Air Cleaner Grp

REF NO	PART NO	QTY	DESCRIPTION
11	231392		TUBE, Breather
95	94098		SCREW -(Throttle Valve)
98	398185		KIT-IDLE SPEED -(Idle Speed) (Lmt 26, 27, 28, 31)
104	231371		PIN, Float Hinge -Included in Carburetor Overhaul Kit-See Ref. No. 121
108	223471		VALVE, Choke
116	-----		No Nomenclature -Included in Carburetor Overhaul Kit-See Ref. No. 121 Included in Carburetor Gasket Set-Part No. 398183
117	-----		No Nomenclature -Included in Carburetor Overhaul Kit-See Ref. No. 121
118	398157		VALVE, Needle -(Lms 1,2) See Carburetor Illustration for Location of LMS I.D. Number Included in Carburetor Overhaul Kit-See Ref. No. 121
118	398670		KIT, Idle Mixture -(Lms 3,4,5,7,10) Included in Carburetor Overhaul Kit-See Ref. No. 121
118	492945		KIT, Idle Mixture -(Lms 11,12,m26) Included in Carburetor Overhaul Kit-See Ref. No. 121
121	398158		KIT, Carburetor Overhaul -(Lms 1,2)
121	398669		KIT, Carburetor Overhaul -(Lms 3,4)
121	490931		KIT, Carburetor Overhaul -(Lms 5,7,10) See Carburetor Illustration for Location of LMS I.D. Number
121	492495		KIT, Carburetor Overhaul -(Lms 11,12,13,14,15,m26)
124	94119		SCREW -(Carburetor)
125	398901		CARBURETOR -(LMS-1, LMS-3, XXX1, & Xxx3) -Used Before Code Date 87081700
125	491330		CARBURETOR -(Lms 10)
125	491331		CARBURETOR -(LMS-1, LMS-3, XXX1, & Xxx3) -Used After Code Date 87081600
125	492545		CARBURETOR -(Lms 11)
127	-----		No Nomenclature -Included in Carburetor Overhaul Kit-See Ref. No. 121
130	223470		VALVE, Throttle
131	398184		SHAFT, Throttle -Used Before Code Date 87081700
131	491333		SHAFT, Throttle -Used After Code Date 87081600
133	398187		FLOAT-CARBURETOR
134	398188		KIT-NEEDLE/SEAT -Included in Carburetor Overhaul Kit-See Ref. No. 121
137	-----		No Nomenclature -Included in Carburetor Overhaul Kit-See Ref. No. 121 Included in Carburetor Gasket Set-Part No. 398183
141	398186		SHAFT, Choke
163	271840		GASKET, Air Cleaner
187A	398396		LINE, Fuel -(Molded)
187	393815		HOSE, Vacuum -(Cylinder To Impulse Pump)(Cut To Required Length)
201	262043		LINK, Choke -Used Before Code Date 87081700



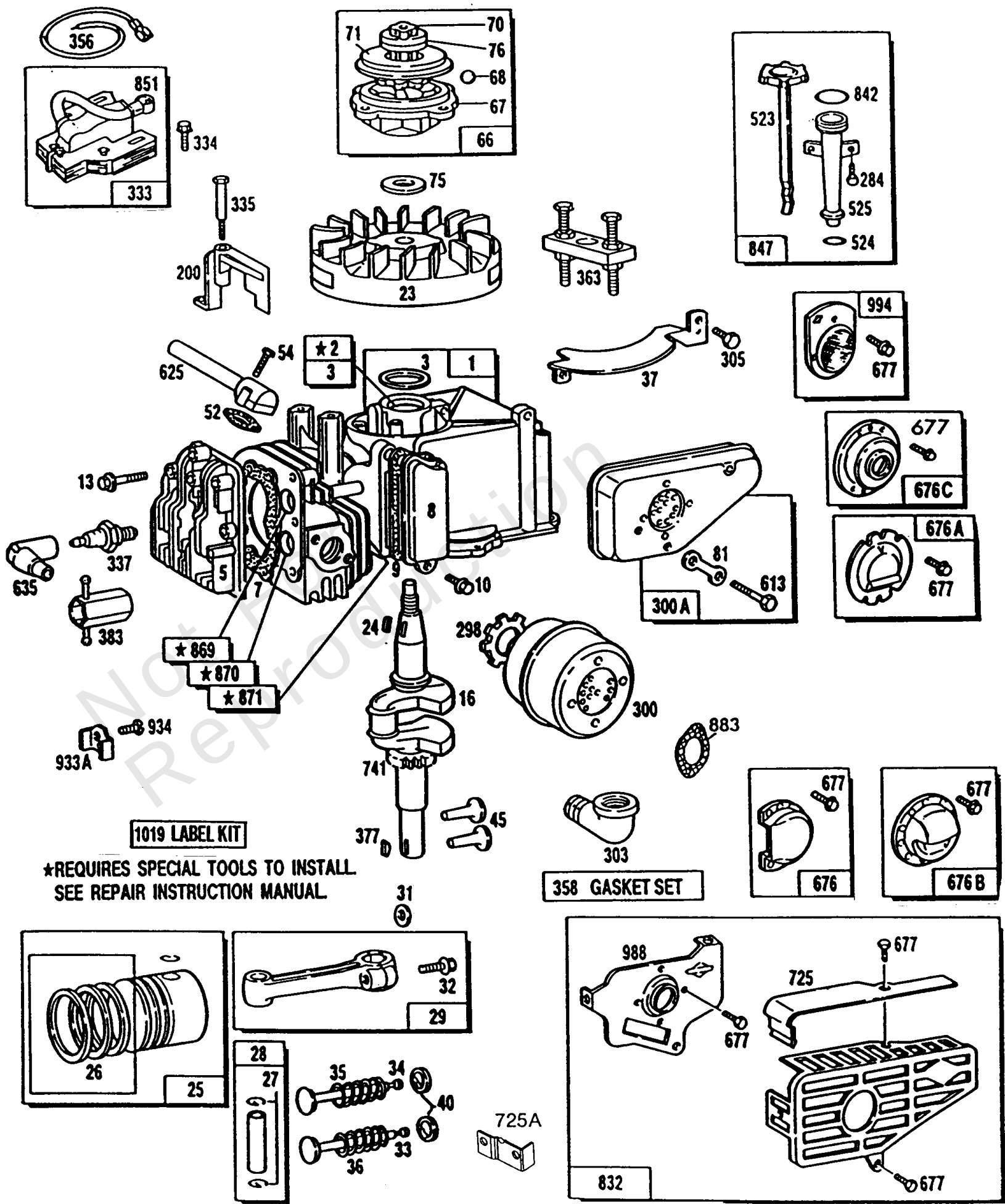
Carburetor, Air Cleaner Grp

REF NO	PART NO	QTY	DESCRIPTION
201	262067		LINK, Choke -Used Before Code Date 87081700
201	262365		LINK, Choke -Used After Code Date 87081600
209	261320		SPRING, Governor
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
529	280524		GROMMET -(Breather)
601	93053		CLAMP, Hose -(Green)
617	270344		SEAL, O-Ring -(Intake Manifold) Included in Carburetor Overhaul Kit-See Ref. No. 121 Included in Carburetor Gasket Set-Part No. 398183
618A	260870		SPRING, Choke Return -(Choke Return For Snap-Over Choke)
618	262035		SPRING, Choke Return
634	-----		No Nomenclature -Included in Carburetor Overhaul Kit-See Ref. No. 121 Included in Carburetor Gasket Set-Part No. 398183
634A	-----		No Nomenclature -Included in Carburetor Overhaul Kit-See Ref. No. 121 Included in Carburetor Gasket Set-Part No. 398183
955	231373		SCREW
966	399059		BASE, Air Cleaner
967	397795		FILTER, A/C Cartridge
968	280501		COVER, Air Cleaner
969	94173		SCREW
970	94118		SCREW -(Tapping)
971	94121		SCREW -(Air Cleaner Base)
975	398191		BOWL, Float
977	398183		SET, Carburetor Gasket
977	490937		SET, Carburetor Gasket -(Lms 11)
991	399039		FILTER, Pre Cleaner
1011	280786		TUBE, VENT



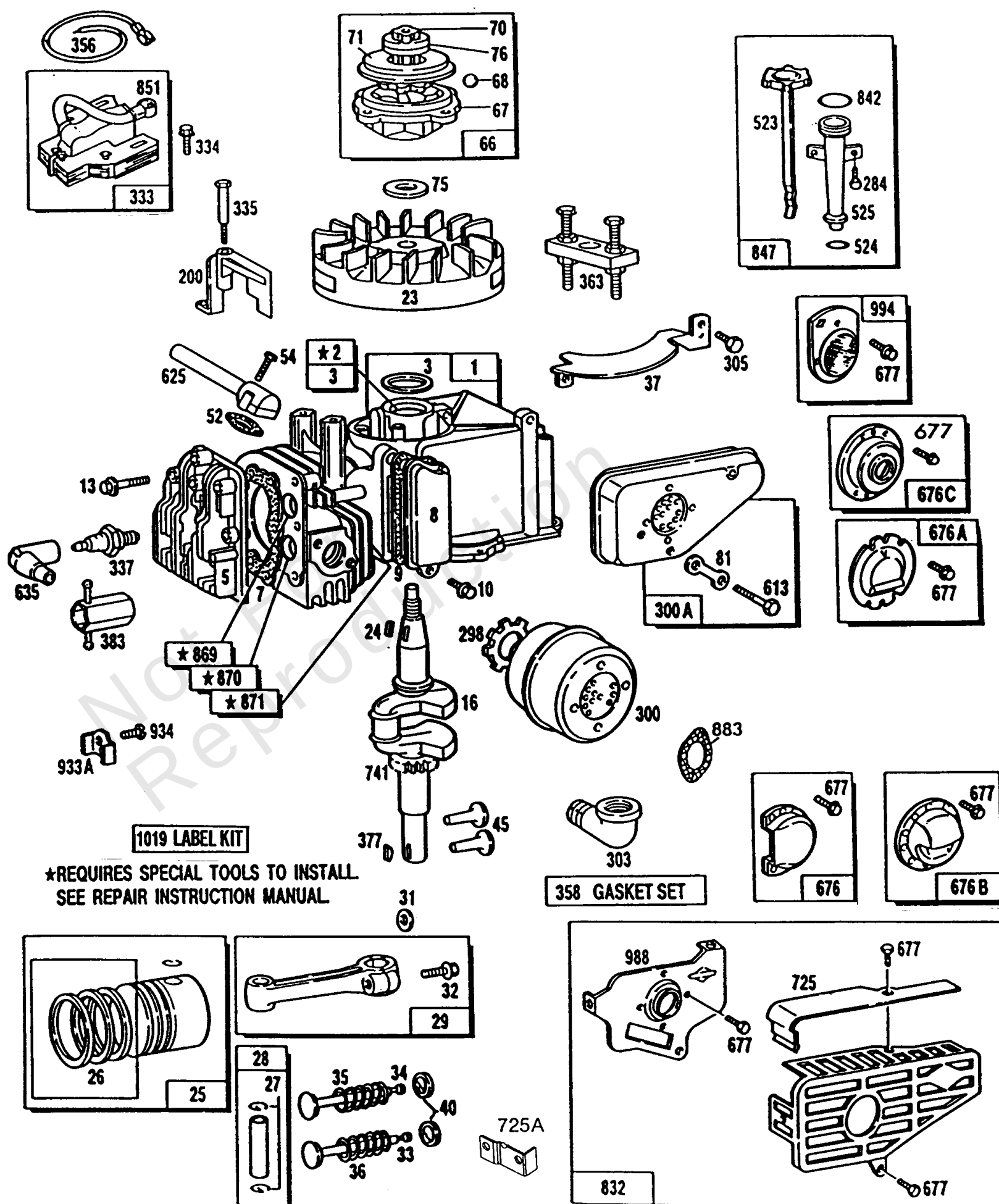
Cylinder,Mufflers,Piston Grp

REF NO	PART NO	QTY	DESCRIPTION
1	399168		CYLINDER ASSEMBLY -(Air Vane)
2	293708		KIT, Bushing/Seal -(Plain Bearing)
3	299819		SEAL, Oil -(Plain Bearing)
5	212996		HEAD, Cylinder
7	270836		GASKET, Cylinder Head -Included in Gasket Set-Part No. 391662
8	298383		BREATHER ASSEMBLY
10	93394		SCREW
13	93111		SCREW -(15/16)
13	93772		STUD -(15/16)
16	492093		CRANKSHAFT -To Replace Crankshaft Gear Pin, Order Part No. 230978
23	394066		FLYWHEEL -(Heavy Flywheel)
24	222698		KEY, Flywheel
25	391650		PISTON ASSEMBLY -(Standard)
25	391651		PISTON ASSEMBLY -(.010 Oversize)
25	391652		PISTON ASSEMBLY -(.020 Oversize)
25	391653		PISTON ASSEMBLY -(.030 Oversize)
26	391654		SET, Ring -(Standard)
26	391656		SET, Ring -(.010 Oversize)
26	391658		SET, Ring -(.020 Oversize)
26	391660		SET, Ring -(.030 Oversize)
26	392330		SET, Ring -(Standard)
27	26026		LOCK, Piston Pin
28	391649		PIN, Piston -(Standard)
28	394861		PIN, Piston -(.005 Oversize)
29	391640		ROD, Connecting -For Connecting Rod with .020 undersize Crankpin Bearing-Order No. 393710
31	222282		WASHER
32	94405		SCREW -(Connecting Rod)
33	212004		VALVE, Exhaust
34	261233		VALVE, Intake
35	260552		SPRING, Valve -(Exhaust)
36	26478		SPRING, Valve -(Exhaust)
37	223150		GUARD, Flywheel -(Muffler Side)
40	93312		RETAINER, Valve -(Valves With Groove In Stem)



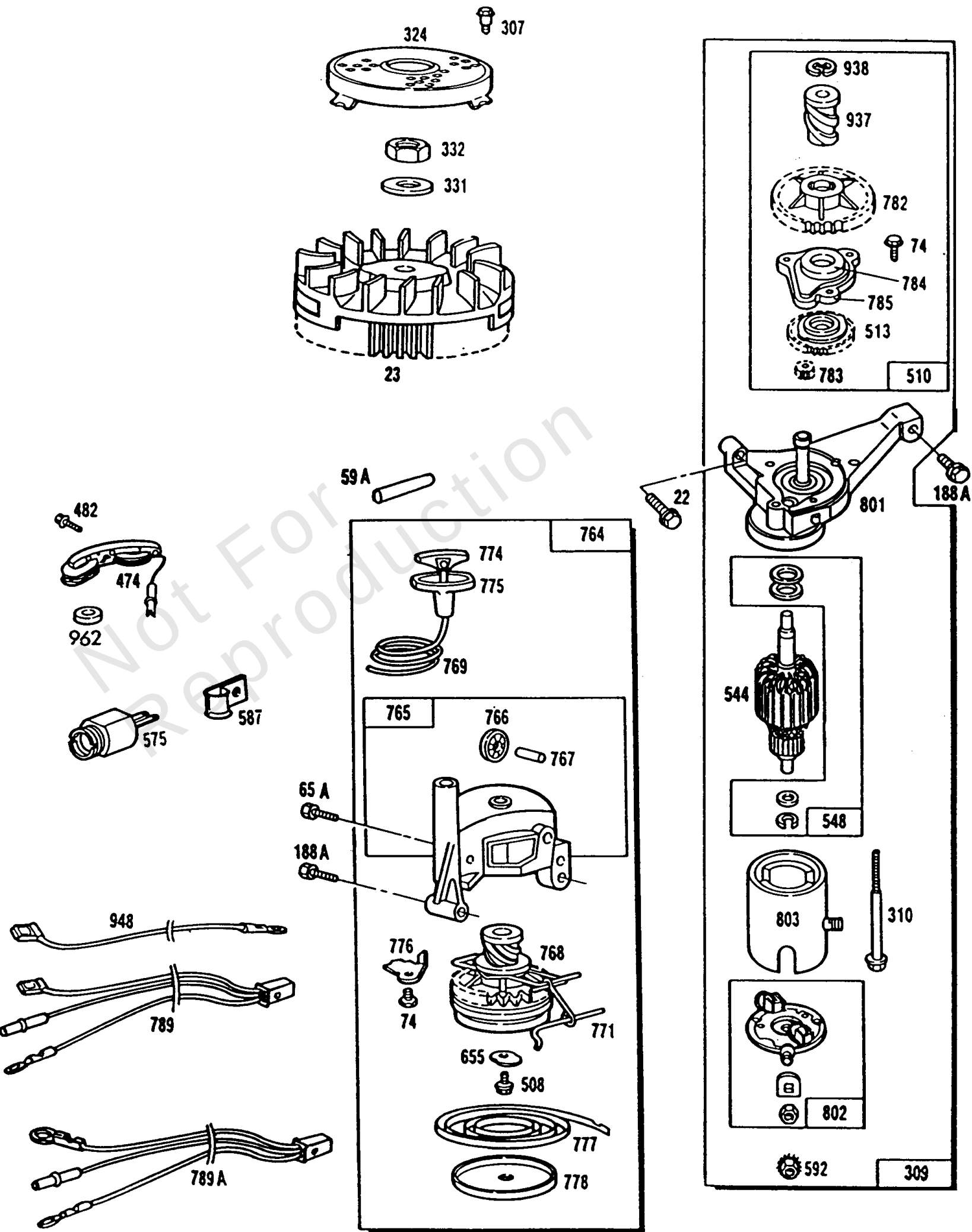
Cylinder,Mufflers,Piston Grp

REF NO	PART NO	QTY	DESCRIPTION
45	261250		TAPPET, Valve
52	270844		GASKET, Intake -Included in Gasket Set-Part No. 391662
54	93485		SCREW
66	399671		CLUTCH-STARTER -(Uses Rubber Coated Retainer Washer-Ref. 71)
67	394897		HOUSING, Clutch
68	63770		BALL, Clutch
70	298436		RATCHET, Clutch
71	221653		WASHER
71	394506		COVER, Ratchet -(Rubber Coated)
75	220865		WASHER -(Heavy Flywheel)
76	68238		SEAL, Ratchet
81	223256		LOCK, Rod Screw
200	68388		BLADE, Governor
284	94073		SCREW
298	220859		LOCKNUT -(Muffler and Elbow)
300A	394644		MUFFLER
300	394569		MUFFLER -(Lo Tone)
303	91943		ELBOW, Exhaust -(90 Degree Street)
305	94153		SCREW
333	398593		ARMATURE, Magneto -(Magnetron Ignition)
334	93381		SCREW
335	93435		SCREW
337	293918		PLUG, Spark
337	298809		PLUG, Spark
337	492167		PLUG, Spark
337	802592		PLUG, Spark -(Resistor)
356	398808		WIRE, Stop -(Cut To Required Length)
358	391662		GASKET SET, Engine
363	19069		PULLER, Flywheel
377	93065		KEY, Woodruff -(#6)
383	89838		WRENCH, Spark Plug
523	398012		DIPSTICK -(Rewind Starter)
524	271485		SEAL, O-Ring -(Dipstick Tube) (Oil Fill)
525	280504		TUBE, Dipstick -(Rewind Starter)
613	93935		SCREW -(Muffler)
625	397973		STACK, Air
635	66538		BOOT, Spark Plug
676C	397931		DEFLECTOR, Muffler
676B	396548		DEFLECTOR, Muffler
676A	393756		DEFLECTOR, Muffler -(Side Outlet)



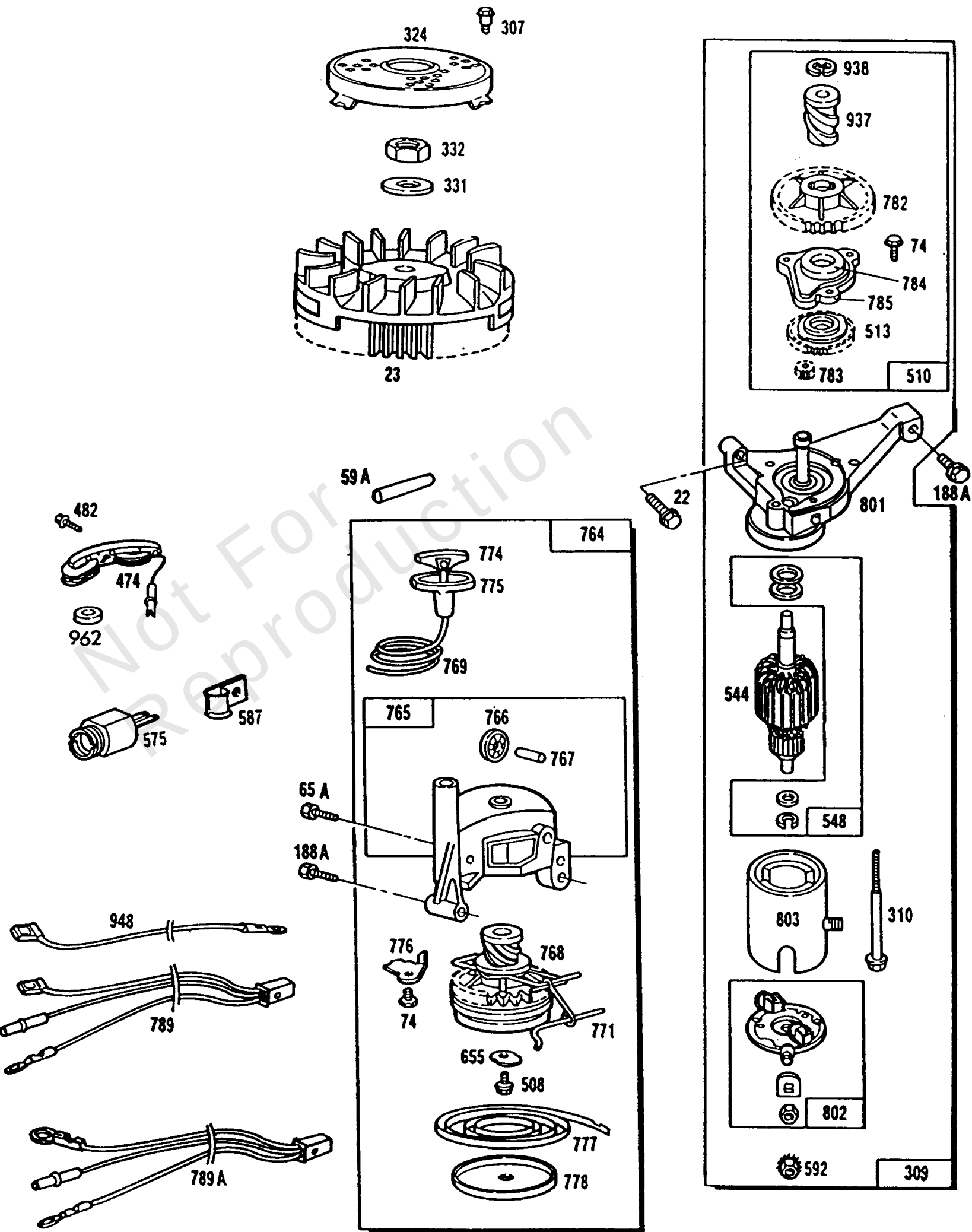
Cylinder,Mufflers,Piston Grp

REF NO	PART NO	QTY	DESCRIPTION
676	393760		DEFLECTOR, Muffler
677	93705		SCREW -(8-32 X 3/8)
725A	224451		SHIELD, Heat
725	223725		SHIELD, Heat
741	261533		GEAR, Timing -(Plain Bearing 2 Piece Crankshaft)
832	399637		GUARD, Muffler
842	270920		SEAL, O-Ring -(Dipstick Tube) (Oil Fill)
847	398010		DIPSTICK/TUBE ASSEMBLY -(Rewind Starter)
851	221798		TERMINAL, Spark Plug
869	210879		SEAT, Valve -(Intake) -Used Before Code Date 88070100
869	211172		SEAT, Valve -(Intake) -Used After Code Date 88063000
870	211291		SEAT, Valve -(Exhaust)
871	262001		BUSHING-VALVE GUIDE -(Exhaust)
871	63709		BUSHING, Valve Guide -(Intake)
883	270774		GASKET, Exhaust
933A	223278		SPACER -(Used on Engines Without Band Brake)
934	94037		SCREW
988	223600		BRACKET, Muffler
994	398067		ARRESTOR, Spark
1019	491080		KIT, Label



Electric Starter, Rewind, Wires

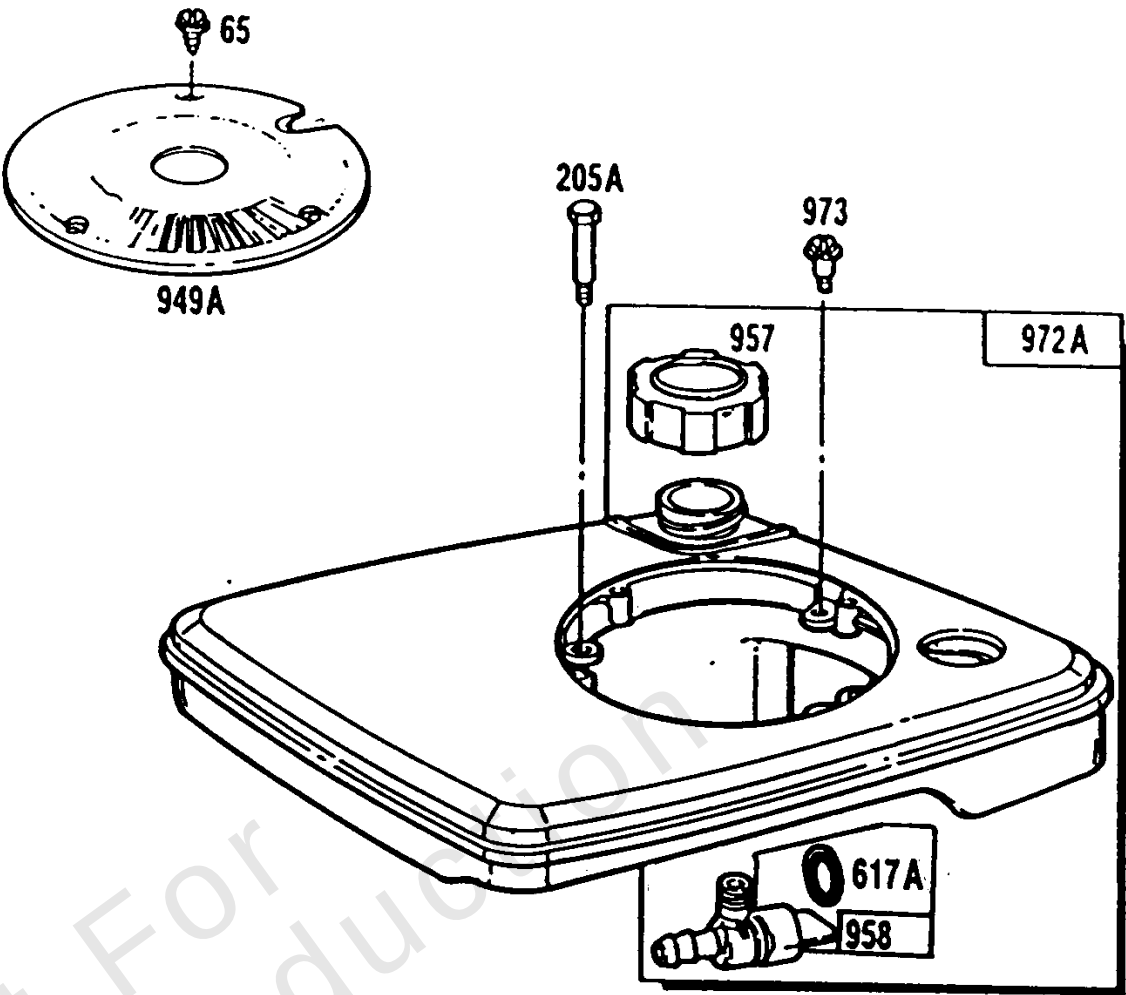
REF NO	PART NO	QTY	DESCRIPTION
22	93032		SCREW -(Fuel Tank) (Tank)
23	394066		FLYWHEEL -(Heavy Flywheel)
59A	230228		PIN, Starter Grip
65A	93587		SCREW -(1/4-20 X 1)
74	93490		SCREW -(Rotating Screen)
188A	93847		SCREW -(Fuel Tank) (Tank)
307	93490		SCREW -(Rotating Screen)
309	398635		MOTOR, Starter -(12 Volt)
310	94051		SCREW
324	223006		SCREEN, Rotating
331	223047		WASHER -(Flywheel)
332	92284		NUT -(Flywheel)
474	397880		ALTERNATOR
482	94016		SCREW
508	93158		SCREW -(1/4-20 X 5/8)
510	395727		DRIVE, Starter
513	394815		CLUTCH, Starter
544	398636		ARMATURE, Starter -(12 Volt)
548	396067		WASHER -(Starter Motor)
575	396291		SWITCH, Starting
587	220162		CLIP, Wire
592	93991		NUT -(10-24)
655	222057		ANCHOR, Spring
764	398753		STARTER, Rewind -(48-5/8)
765	398683		HOUSING, Vertical Starter
766	280022		PULLEY, Rope Guide
767	231048		PIN, Retainer -(7/16)
768	299948		PULLEY, Vertical Starter
769	66734		ROPE, Starter -(48-5/8) If longer rope is needed, order No. 280399 and cut to required length.
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
782	280038		GEAR, Starter Drive
783	261606		GEAR, Starter Drive
784	223123		COVER, Gear
785	271457		GASKET, Gear Cover/Housing



Electric Starter, Rewind, Wires

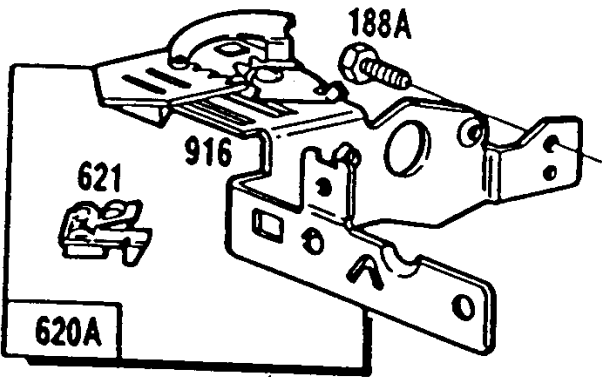
REF NO	PART NO	QTY	DESCRIPTION
801	398244		CAP, Drive
802	396061		CAP, End
803	396059		HOUSING, Starter
937	280366		SPLINE, Starter
938	93941		RETAINER, E Ring
948	397803		HARNESS, Wiring -(12 Volt)
962	231277		BUSHING, Alternator

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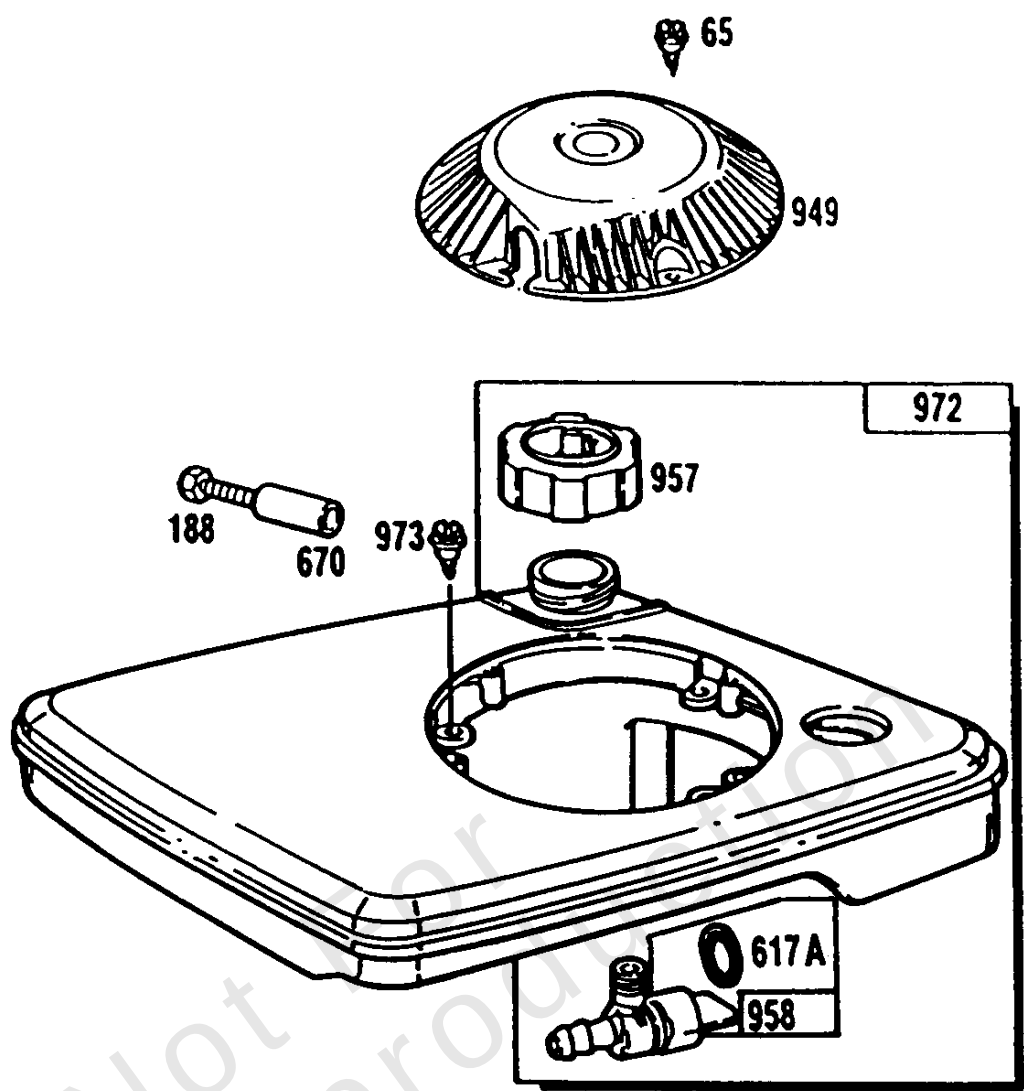
REF. 972A
FUEL TANKS FOR ENGINES WITH VERTICAL PULL OR ELECTRIC STARTERS.

COLOR	BLACK	GREY	AMER. RED(I/C)	SUN YELLOW	LIGHT FAWN
PART NO.	490623	492879	490805		491134



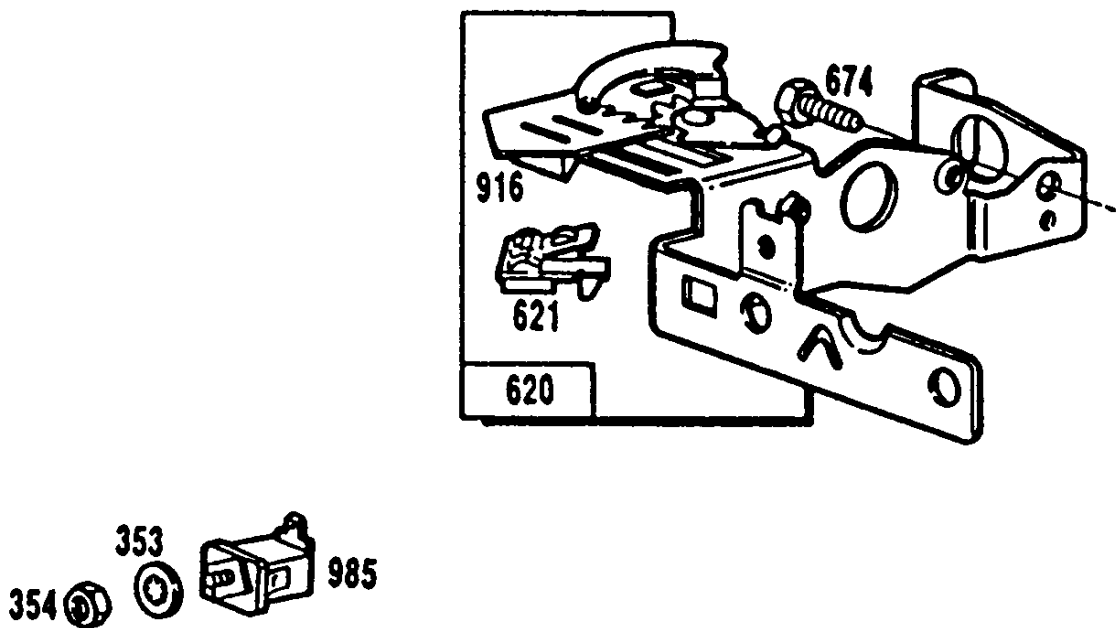
Fuel Tank Assy, Control Brkt

REF NO	PART NO	QTY	DESCRIPTION
65	94058		SCREW -(Rewind Starter)
188A	93847		SCREW -(Fuel Tank) (Tank)
353	92791		WASHER
354	90576		NUT -(Ground Terminal)
617A	280670		SEAL, O-Ring -(Shut-off Valve)
621	396847		SWITCH, Stop
916	280522		RACK, Governor Gear -Used Before Code Date 89040100
916	280993		RACK, Governor Gear -Used After Code Date 89033100
949A	280509		GUARD, Rewind -(Electric Starter)
957	397974		CAP, Fuel Tank -(Plastic)
958	399517		VALVE, Fuel Shut Off -(Plastic)
972A	491134		TANK, Fuel -(Pull or Electric Starter) (Light Fawn)
972A	492879		TANK, Fuel -(Grey)
972A	490805		TANK, Fuel -(Red)
972A	-----		No Nomenclature
972A	490623		TANK, Fuel -(Black) (Pull or Electric Starter)
973	94114		SCREW
985	398525		INSULATOR



REF. 972
FUEL TANKS FOR ENGINES WITH REWIND START ONLY

Color	Black	Grey	Amer. Red (I/C®)	Sun Yellow	Light Fawn
Part No.	490622	490808	490806	490804	491045



Fuel Tank Assy, Control Brkt

REF NO	PART NO	QTY	DESCRIPTION
65	94058		SCREW -(Rewind Starter)
188	398540		SCREW -(Control Bracket)
353	92791		WASHER
354	90576		NUT -(Ground Terminal)
617A	280670		SEAL, O-Ring -(Shut-off Valve)
620	398181		BRACKET, Control
621	396847		SWITCH, Stop
670	280512		SPACER, Fuel Tank
674	94117		SCREW -(Tank) (Fuel Tank)
916	280522		RACK, Governor Gear -Used Before Code Date 89040100
916	280993		RACK, Governor Gear -Used After Code Date 89033100
949	280502		GUARD, Rewind -(Rewind Starter)
957	397974		CAP, Fuel Tank -(Plastic)
958	399517		VALVE, Fuel Shut Off -(Plastic)
972	490622		TANK, Fuel -(Black) (Rewind Starter)
972	490804		TANK, Fuel -(Yellow) (Rewind Starter)
972	490806		TANK, Fuel -(Red)
972	490808		TANK, Fuel -(Grey) (Rewind Starter)
972	491045		TANK, Fuel -(Rewind Starter) (Light Fawn)
973	94114		SCREW
985	398525		INSULATOR

Replacement Engine - US & Canada

REF NO	PART NO	QTY	DESCRIPTION
	126M021015	1	Replacement Engine
	691851	1	SPRING, Governed Idle -Add Part
	691992	1	FLYWHEEL -Add Part
	690319	1	SPRING, Governor -Remove Part
	691987	1	FLYWHEEL -Remove Part
-----			Top No-Load Speed: 3400 -Trim: ALL
-----			Service Note: This Service Engine is NLA. Contact Your Engine Distributor For a Replacement

