



Parts Manual

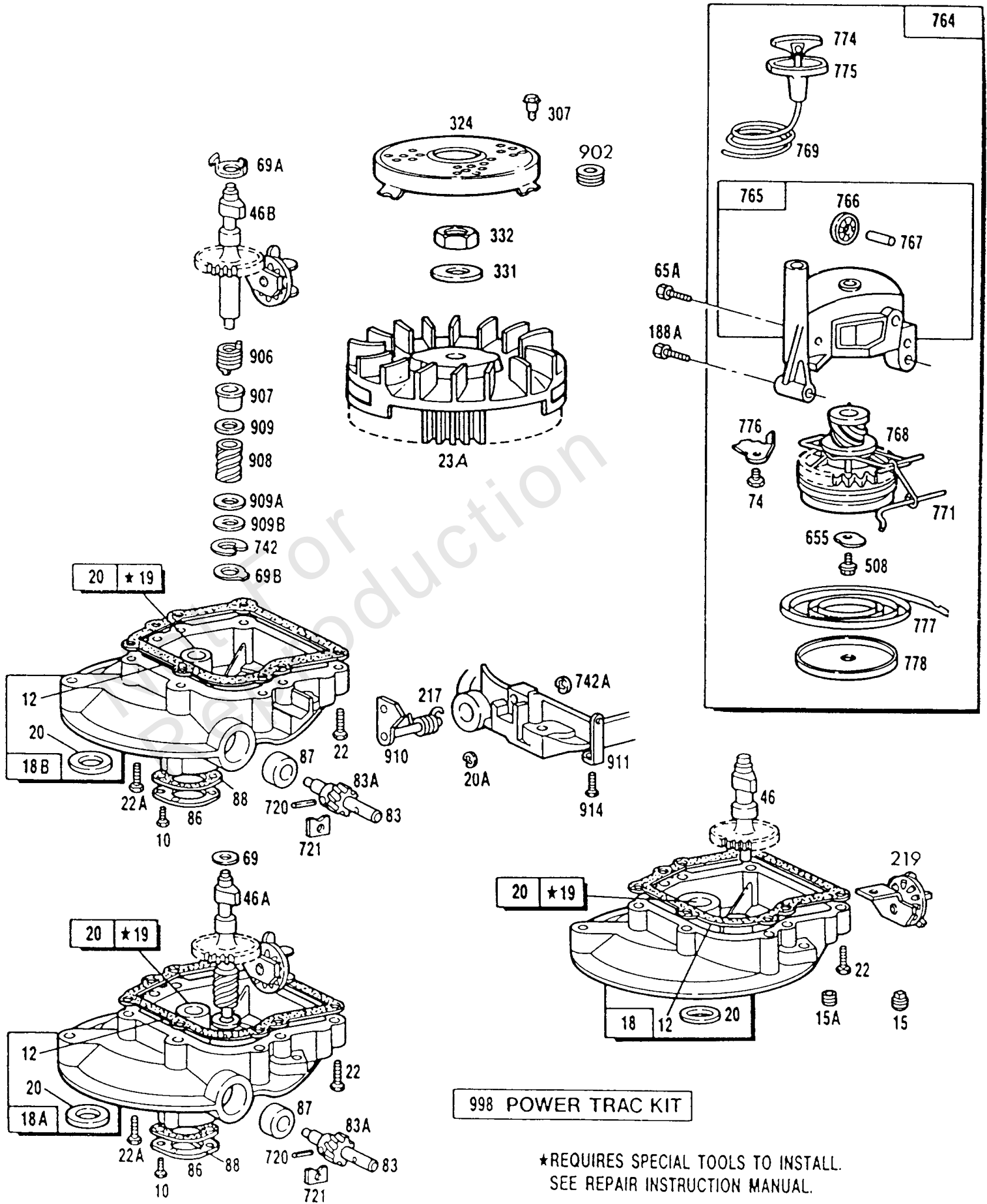
Mfg. No: 111702-3054-01

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Not For
Reproduction

(3) Sump Bases, Vertical Pull

Mfg. No: 111702-3054-01

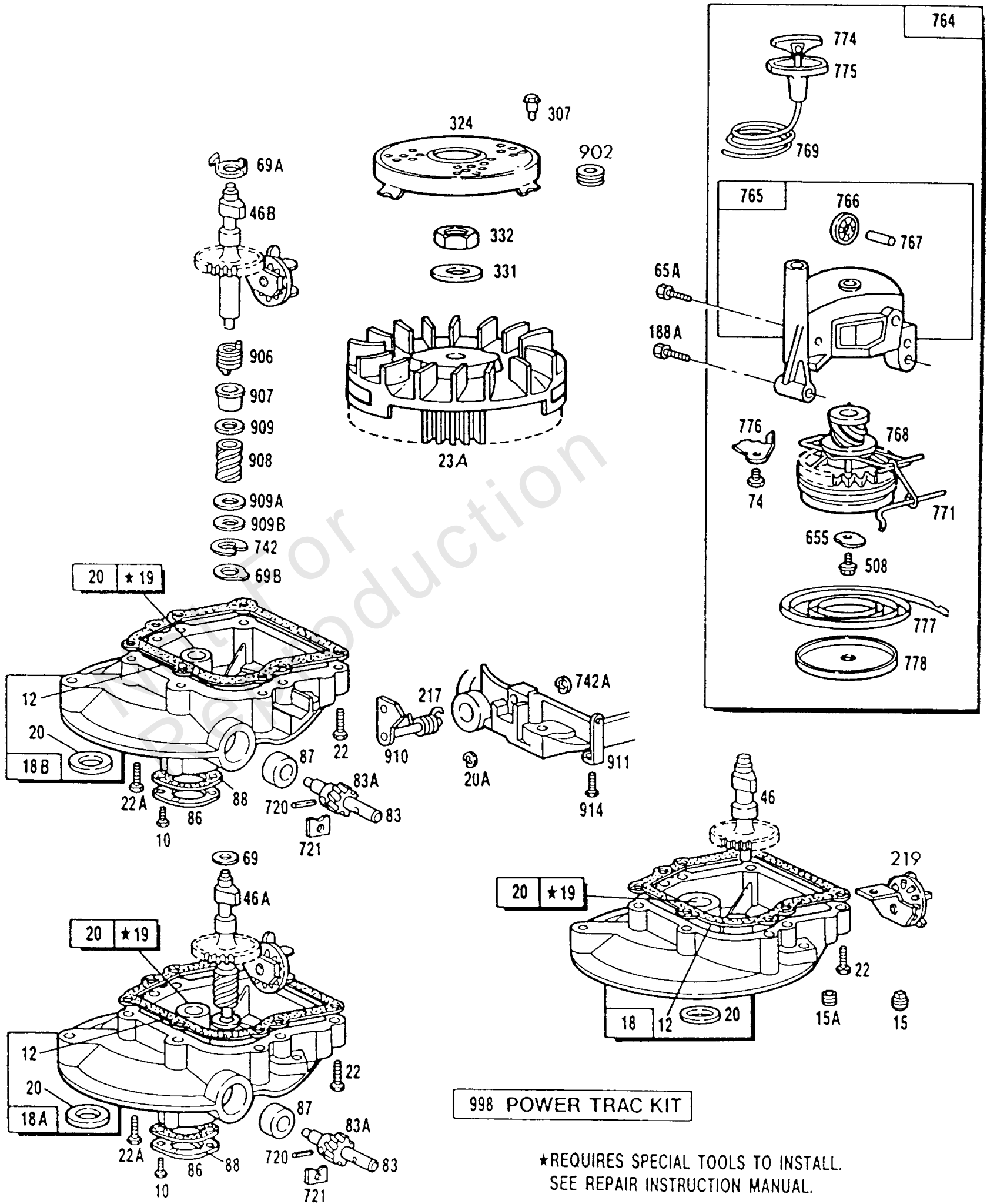


(3)Sump Bases, Vertical Pull

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 Gasket Set-Part No. 391662
12	270896		GASKET, Crankcase -(.009) Included in Gasket Set-Part No. 391662
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)
22	93032		SCREW -(Fuel Tank) (Tank)
23A	394848		FLYWHEEL -(Vertical Pull Starter)
46A	396052		CAMSHAFT -(Clockwise)
46B	396378		CAMSHAFT -(Clutch)
46	395856		CAMSHAFT
65A	93587		SCREW -(1/4-20 X 1)
69B	223228		WASHER, Thrust
69A	223011		WASHER
69	66874		WASHER, Thrust -(11/16 O.D. X 15/32 I.D.)
69	68938		WASHER -Used on 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
74	-----		No Nomenclature -Included in Starter Drive Kit-Part No. 395727
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
188A	93847		SCREW -(Fuel Tank) (Tank)
217	261520		SPRING, Return -(Clutch Lever)
219	394044		GEAR, Governor
307	93926		SCREW
324	223006		SCREEN, Rotating
331	223047		WASHER -(Flywheel)
332	92284		NUT -(Flywheel)
508	93158		SCREW -(1/4-20 X 5/8)

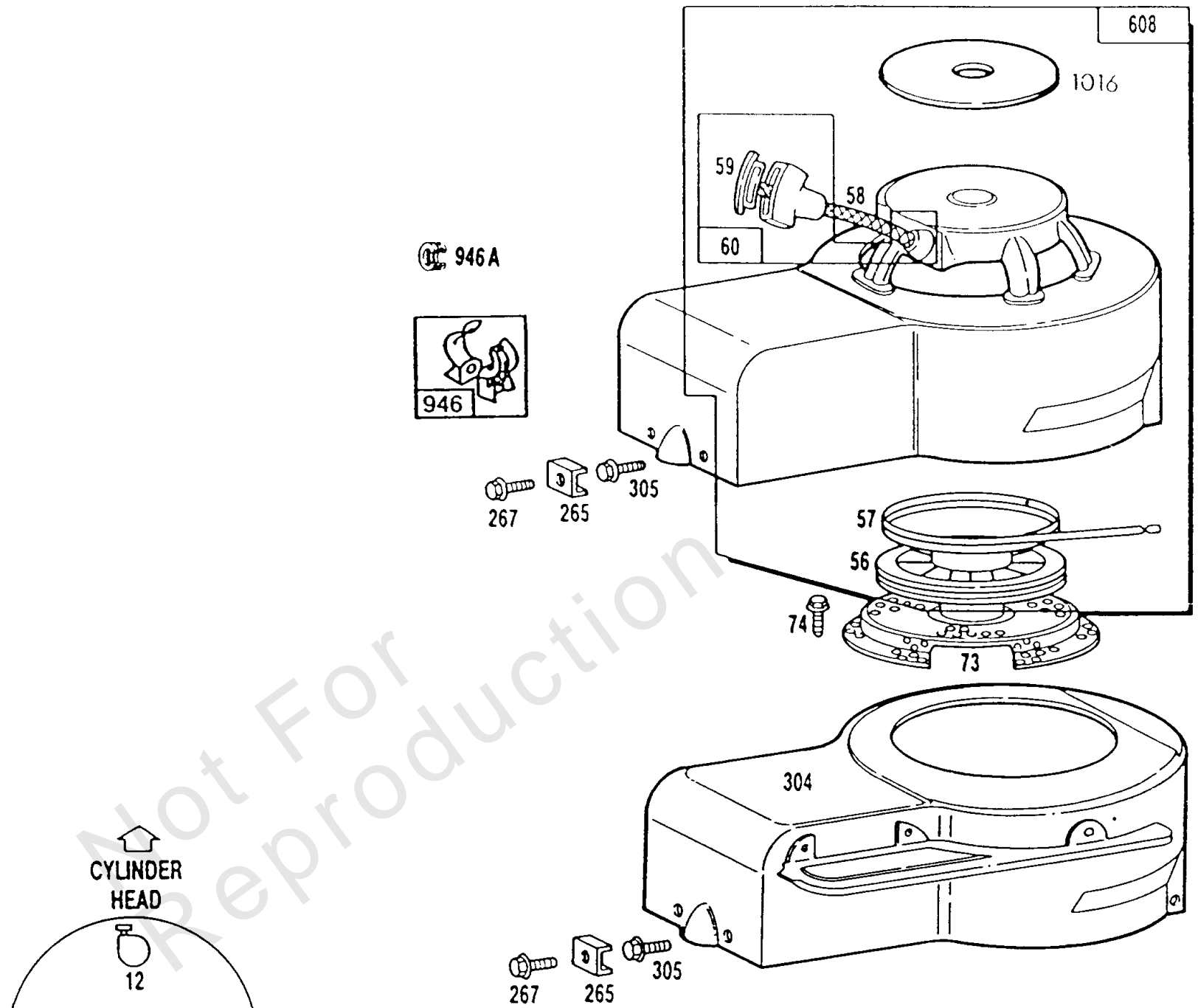
(3) Sump Bases, Vertical Pull

Mfg. No: 111702-3054-01



(3)Sump Bases, Vertical Pull

REF NO	PART NO	QTY	DESCRIPTION
655	222057		ANCHOR, Spring
720	93474		PIN, Shaft
721	221779		STOP, Shaft
742A	93925		RETAINER -(Clutch Lever)
742	93525		RETAINER, E Ring
764	398753		STARTER, Rewind -(48-5/8)
765	398683		HOUSING, Vertical Starter
766	280022		PULLEY, Rope Guide
767	231048		PIN, Retainer -(7/16)
768	395870		PULLEY, Vertical Starter -(81 Rope)
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
902	280271		GROMMET
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)
911	223009		BRACKET, Clutch
914	93970		SCREW
998	399634		HARNESS, Power



REWIND STARTER ASSEMBLIES FOR BAND BRAKE

CLOCK POSITIONS				
1:30	3	6	9	12
		396413*	397824	396017

*See Text For Specials

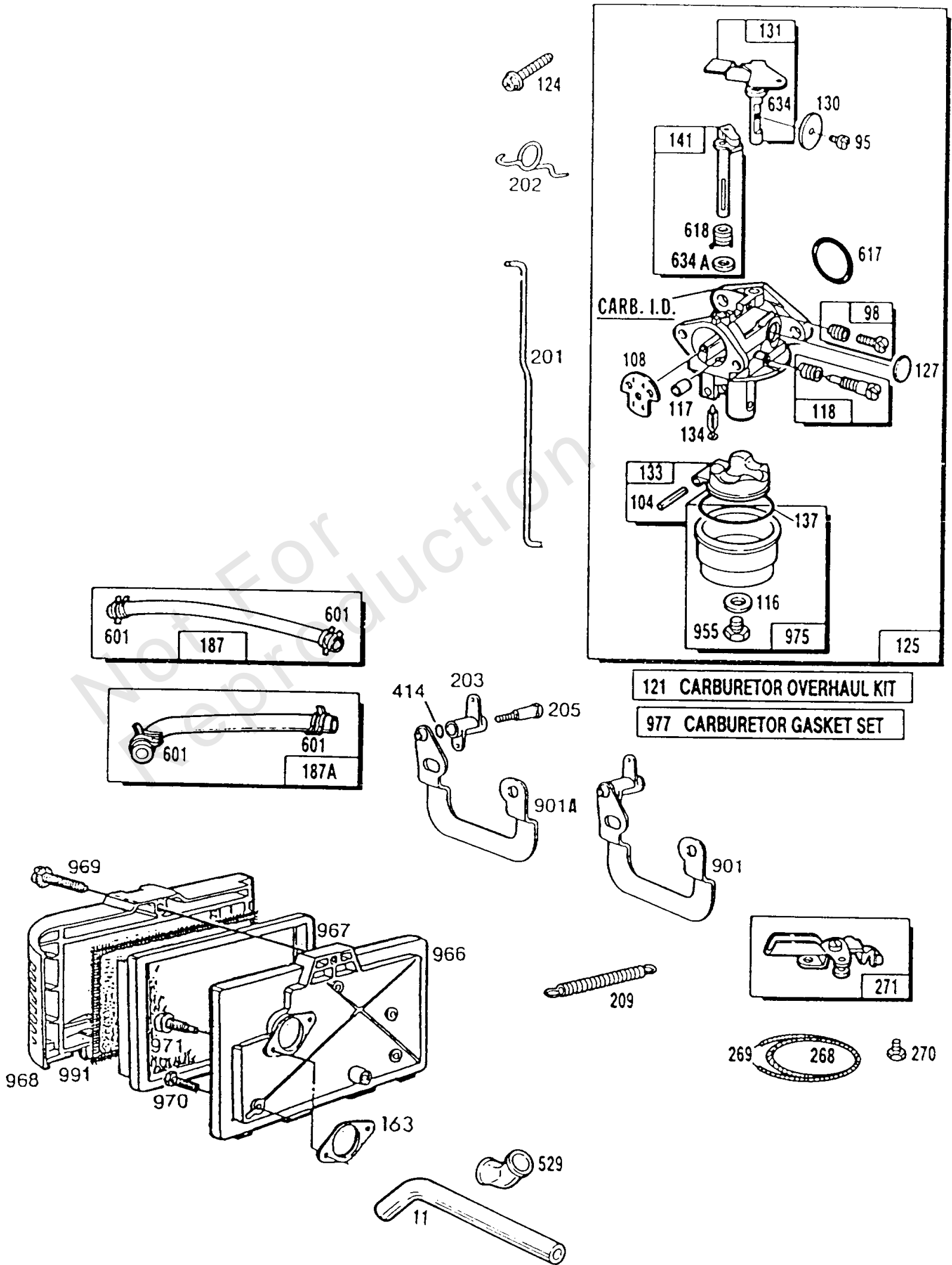
REWIND STARTER ASSEMBLIES FOR NON-BAND-BRAKE

CLOCK POSITIONS			
3	6	9	12
399530	491507*	399013	398634

*For Specials, See Text Ref. 608.

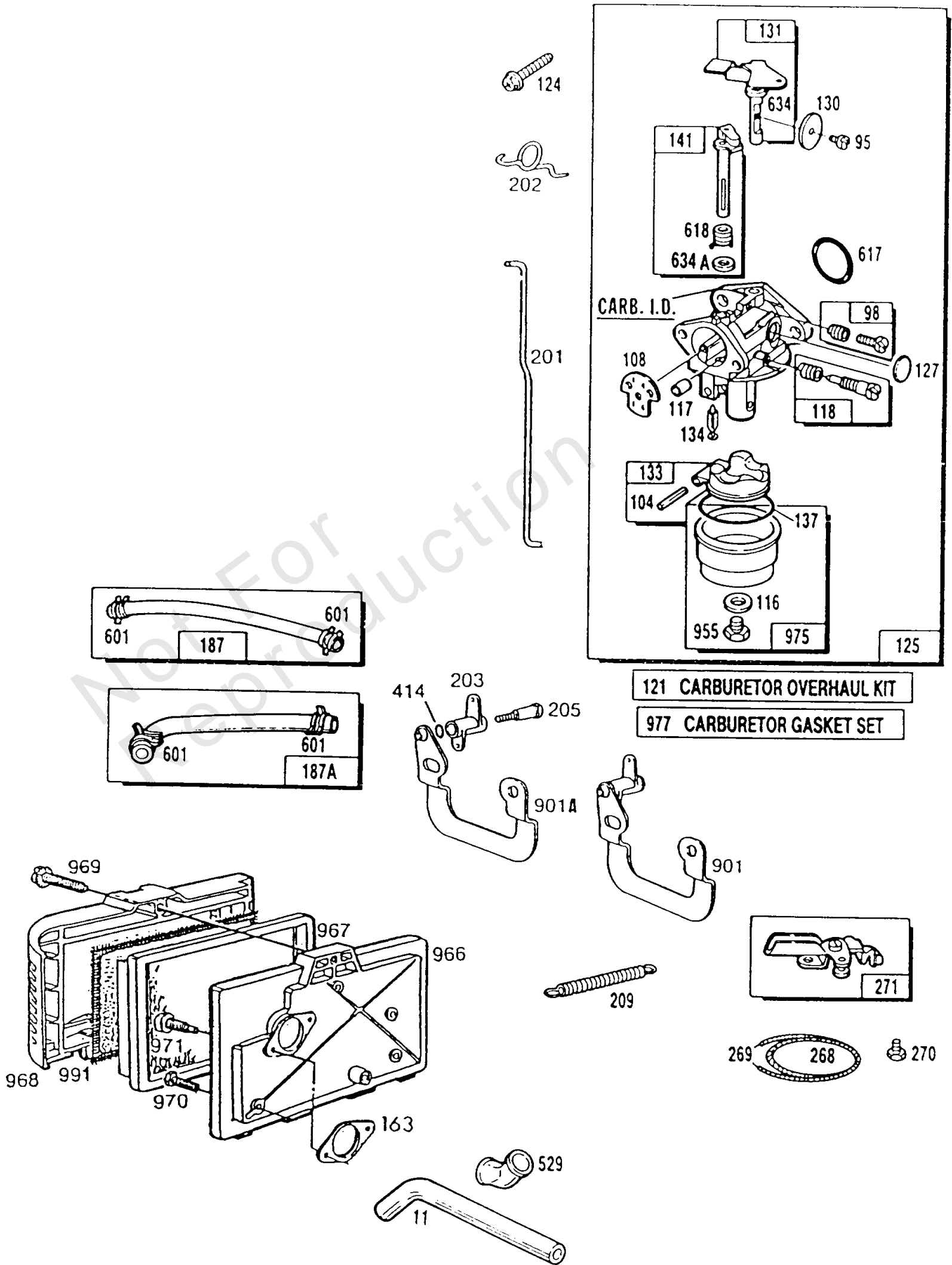
Blower Hsgs,Rewind

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	-----		No Nomenclature -Included in Starter Drive Kit-Part No. 395727
265	213146		CLAMP, Casing
265	221535		CLAMP, Casing -(Stamped Steel)
267	93686		SCREW -(10-32 X 5/8)
304	398390		HOUSING, Blower -(Compliance Engines)
304	398392		HOUSING, Blower -(Non Compliance Engines)
305	94153		SCREW
608	396017		STARTER, Rewind -(12 O'clock)
608	396413		STARTER, Rewind -(6 O'clock) (Compliance Engines)
608	397824		STARTER, Rewind -(9 O'clock) (Compliance Engines)
608	398634		STARTER, Rewind -(12 O'clock)
608	399013		STARTER, Rewind -(9 O'clock)
608	399530		STARTER, Rewind
608	491507		STARTER, Rewind -(6 O'clock)
946A	223294		STOP, Rope
946	396526		GUIDE, Rope
1016	490817		SPACER-REWIND -(Rewind)



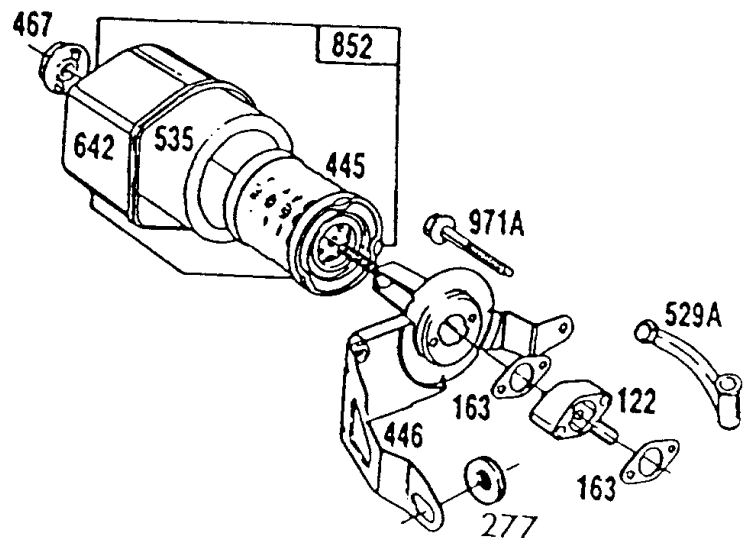
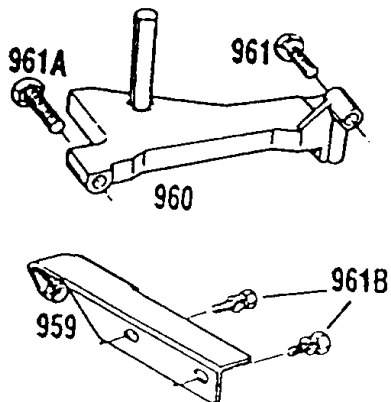
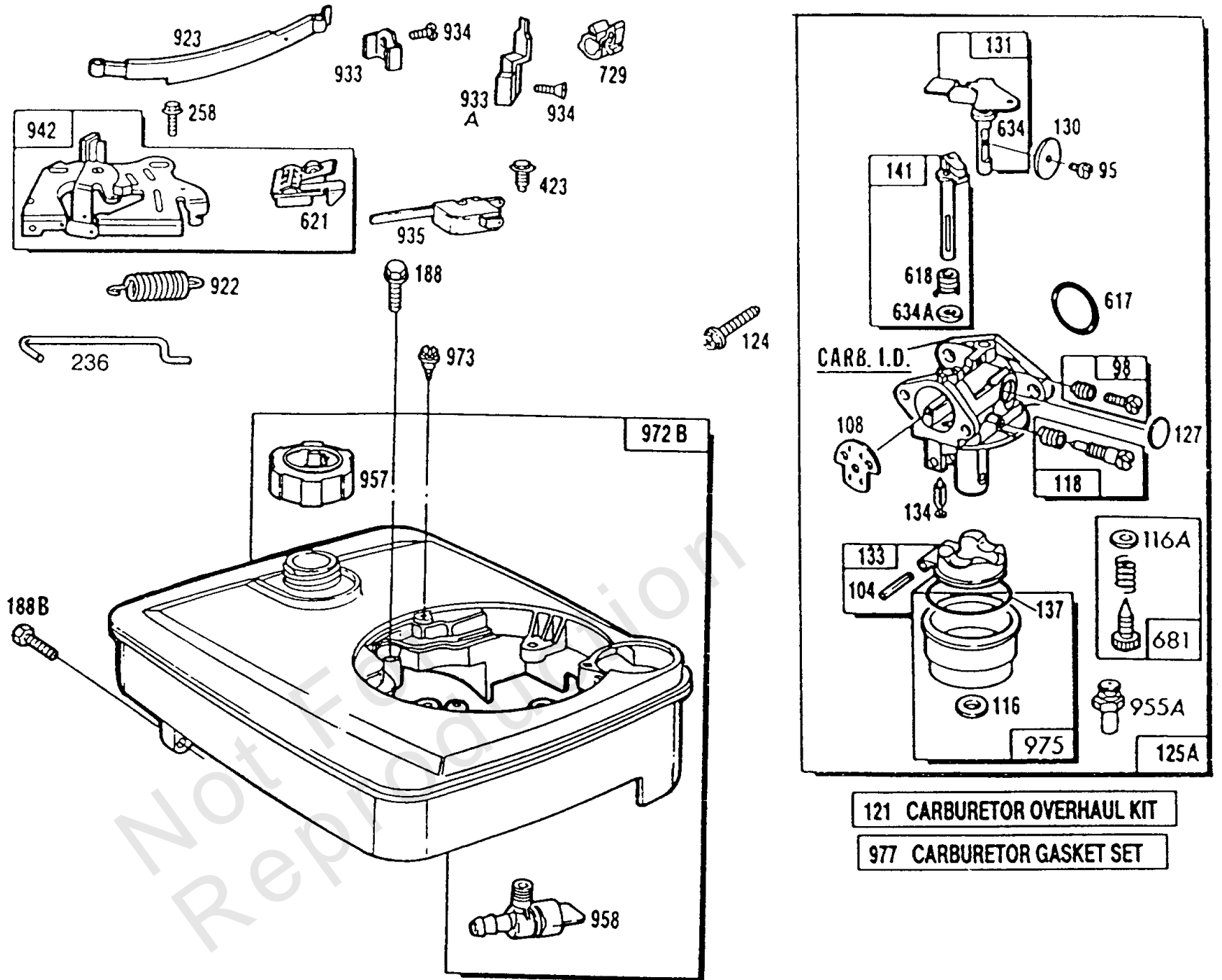
Carburetor Assy,Air Cleaner

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 121
108	223471		VALVE, Choke
116	-----		No Nomenclature -Included in Carburetor Overhaul Kit-See Ref 121. Included in Carburetor Gasket Set-Part No. 398183
117	-----		No Nomenclature -Included in Carburetor Overhaul Kit-See Ref 121
118	398157		VALVE, Needle -(Lms 1,2) See Carburetor Illustration For Location of LMS I.D. Number
118	398670		KIT, Idle Mixture -(Lms 3,4,5,7,10) Included in Carburetor Overhaul Kit-See Ref 121
118	492945		KIT, Idle Mixture -(Lms 11,12,m26) Included in Carburetor Overhaul Kit-See Ref 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	94525		SCREW
125	398668		CARBURETOR -(Fixed Jet) (Lms-12)
125	492544		CARBURETOR -(Fixed Jet) (Lms 2,4,7,12)
127	-----		No Nomenclature -Included in Carburetor Overhaul Kit-See Ref 121
130	223470		VALVE, Throttle
131	398673		SHAFT, Throttle
133	398187		FLOAT-CARBURETOR
134	398188		KIT-NEEDLE/SEAT -Included in Carburetor Overhaul Kit-See Ref 121
137	-----		No Nomenclature -Included in Carburetor Overhaul Kit-See Ref 121. Included in Carburetor Gasket Set-Part No. 398183
141	398186		SHAFT, Choke
163	271840		GASKET, Air Cleaner
187A	398396		LINE, Fuel -(Molded)
187	390674		LINE, Fuel
201	262066		LINK, Choke
202	262065		LINK, Throttle
203	280533		CRANK, Bell -Used Before Code Date 87020900
205	93838		SCREW -(6-32) -Used Before Code Date 87020900
209	262077		SPRING, Governor
268	66986		CASING, Control Wire -(Cut To Required Length)



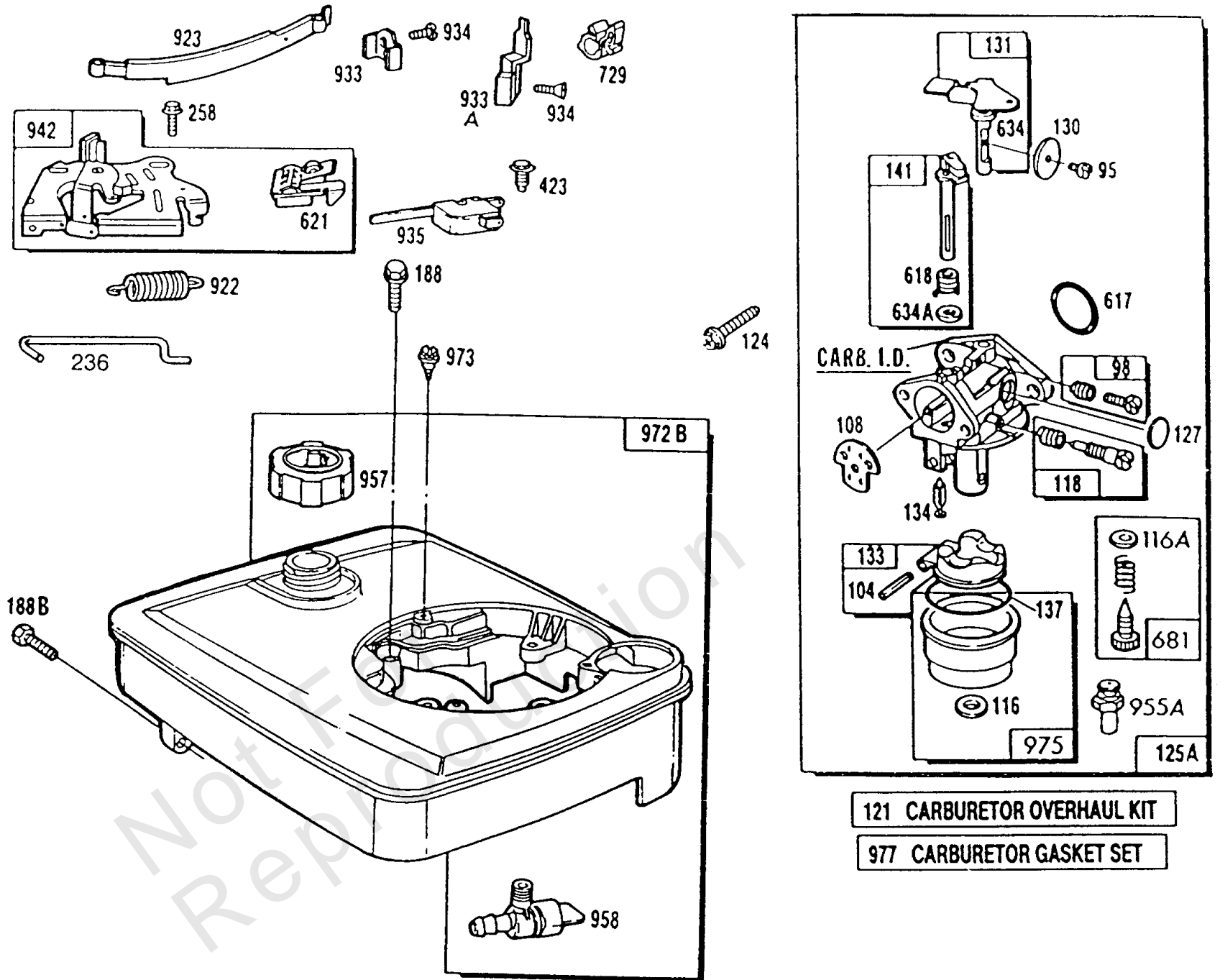
Carburetor Assy,Air Cleaner

REF NO	PART NO	QTY	DESCRIPTION
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
414	220982		WASHER -Used Before Code Date 87020900
529	280524		GROMMET -(Breather)
601	93053		CLAMP, Hose -(Green)
617	270344		SEAL, O-Ring -(Intake Manifold) Included in Carburetor Overhaul Kit-See Ref 121. Included in Carburetor Gasket Set-Part No. 398183
618	262035		SPRING, Choke Return
634A	-----		No Nomenclature -Included in Carburetor Overhaul Kit-See Ref 121. Included in Carburetor Gasket Set-Part No. 398183
634	-----		No Nomenclature -Included in Carburetor Overhaul Kit-See Ref 121. Included in Carburetor Gasket Set-Part No. 398183
901A	223530		BRACKET, Link -Used Before Code Date 87020900
901	398368		BRACKET, Link
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	490937		SET, Carburetor Gasket -(Lms 11)
991	399039		FILTER, Pre Cleaner

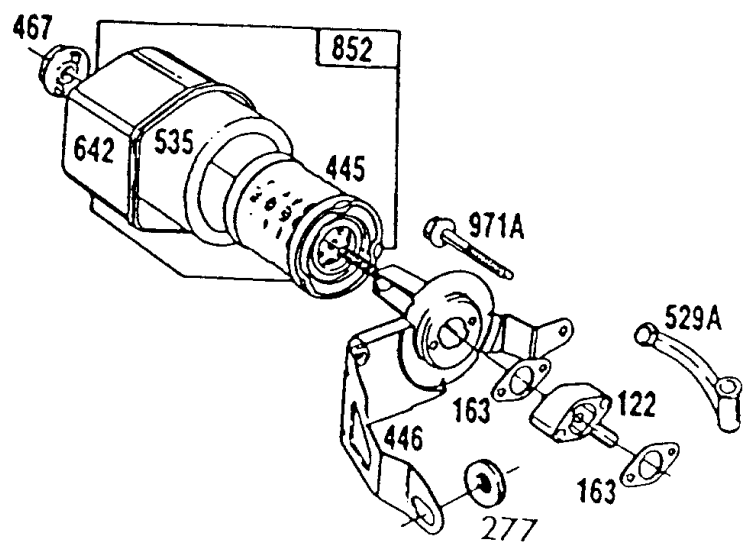
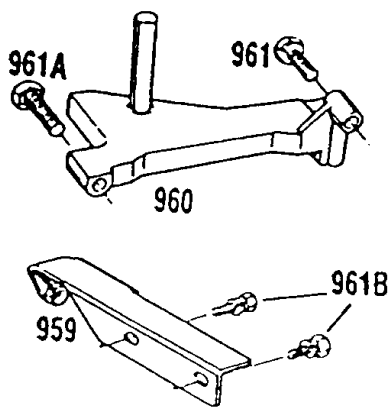


Carburetor, Fuel Tank, Brake

REF NO	PART NO	QTY	DESCRIPTION
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 121
108	223471		VALVE, Choke
116A	280756		SEAL, O-Ring -(Available In Kit Only) Included in Carburetor Overhaul Kit-See Ref 121
116	-----		No Nomenclature -Included in Carburetor Overhaul Kit-See Ref 121. Included in Carburetor Gasket Set-Part No. 398183
118	398157		VALVE, Needle -(Lms 1,2) See Carburetor Illustration For Location of LMS I.D. Number
118	398670		KIT, Idle Mixture -(Lms 3,4,5,7,10) Included in Carburetor Overhaul Kit-See Ref 121
118	492945		KIT, Idle Mixture -(Lms 11,12,m26) Included in Carburetor Overhaul Kit-See Ref 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)
122	280753		SPACER, Air Cleaner
124	94525		SCREW
125A	491002		CARBURETOR -(Adjustable Needle Valve)
127	-----		No Nomenclature -Included in Carburetor Overhaul Kit-See Ref 121
130	223470		VALVE, Throttle
131	398673		SHAFT, Throttle
133	398187		FLOAT-CARBURETOR
134	398188		KIT-NEEDLE/SEAT -Included in Carburetor Overhaul Kit-See Ref 121
137	-----		No Nomenclature -Included in Carburetor Overhaul Kit-See Ref 121. Included in Carburetor Gasket Set-Part No. 398183
141	398186		SHAFT, Choke
163	271840		GASKET, Air Cleaner
188B	399918		SCREW -(Fuel Tank)
188	398540		SCREW -(Control Bracket)
236	262461		LINK, Lockout
258	94018		SCREW
277	22776		WASHER
423	93758		SCREW -(Rotating Screen)
445	396424		FILTER, Pre Cleaner
446	399940		BASE, Air Cleaner
467	212706		KNOB, Choke Shaft
529A	280701		GROMMET -(Breather)
535	271466		FILTER, Pre Cleaner

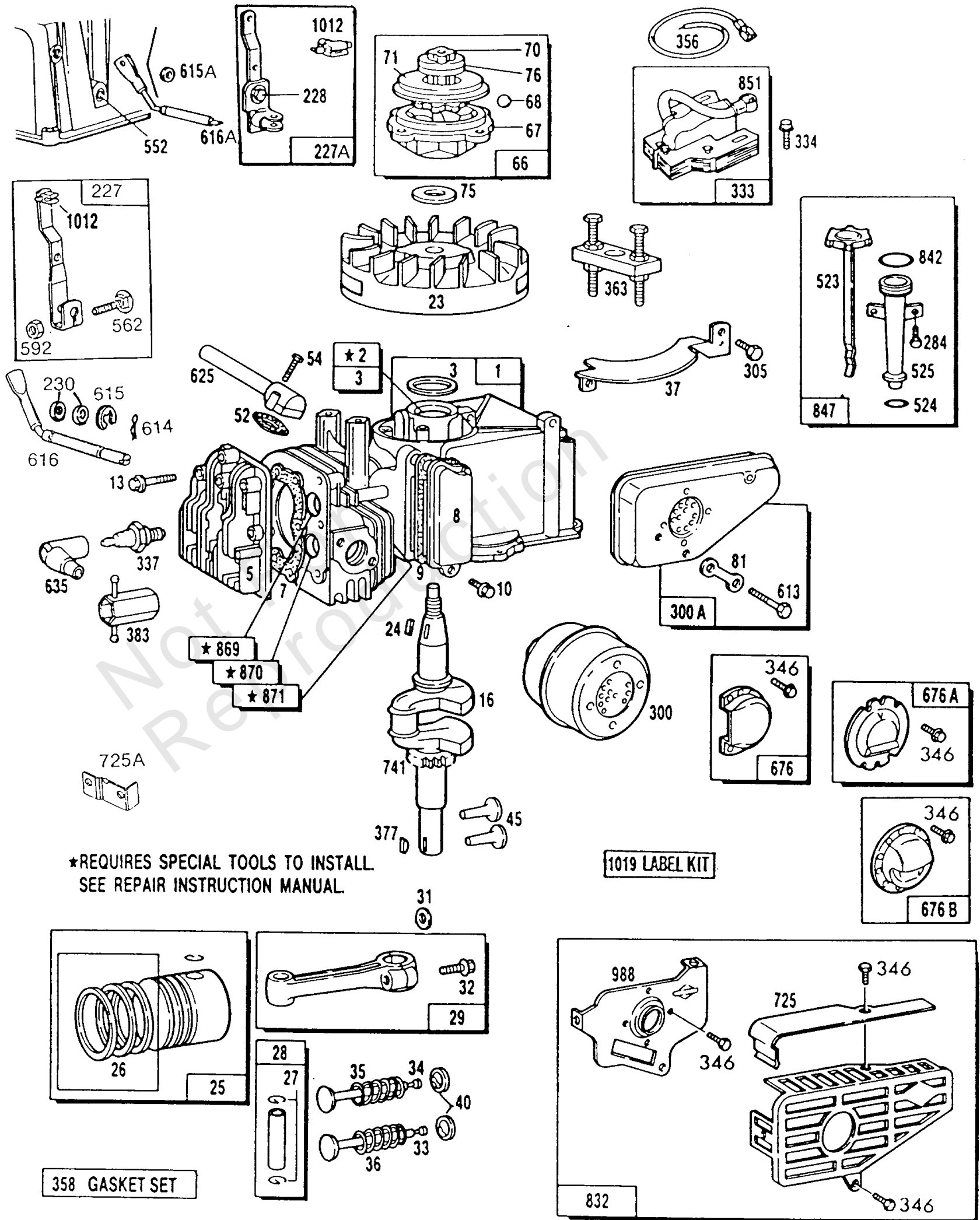


121 CARBURETOR OVERHAUL KIT
 977 CARBURETOR GASKET SET



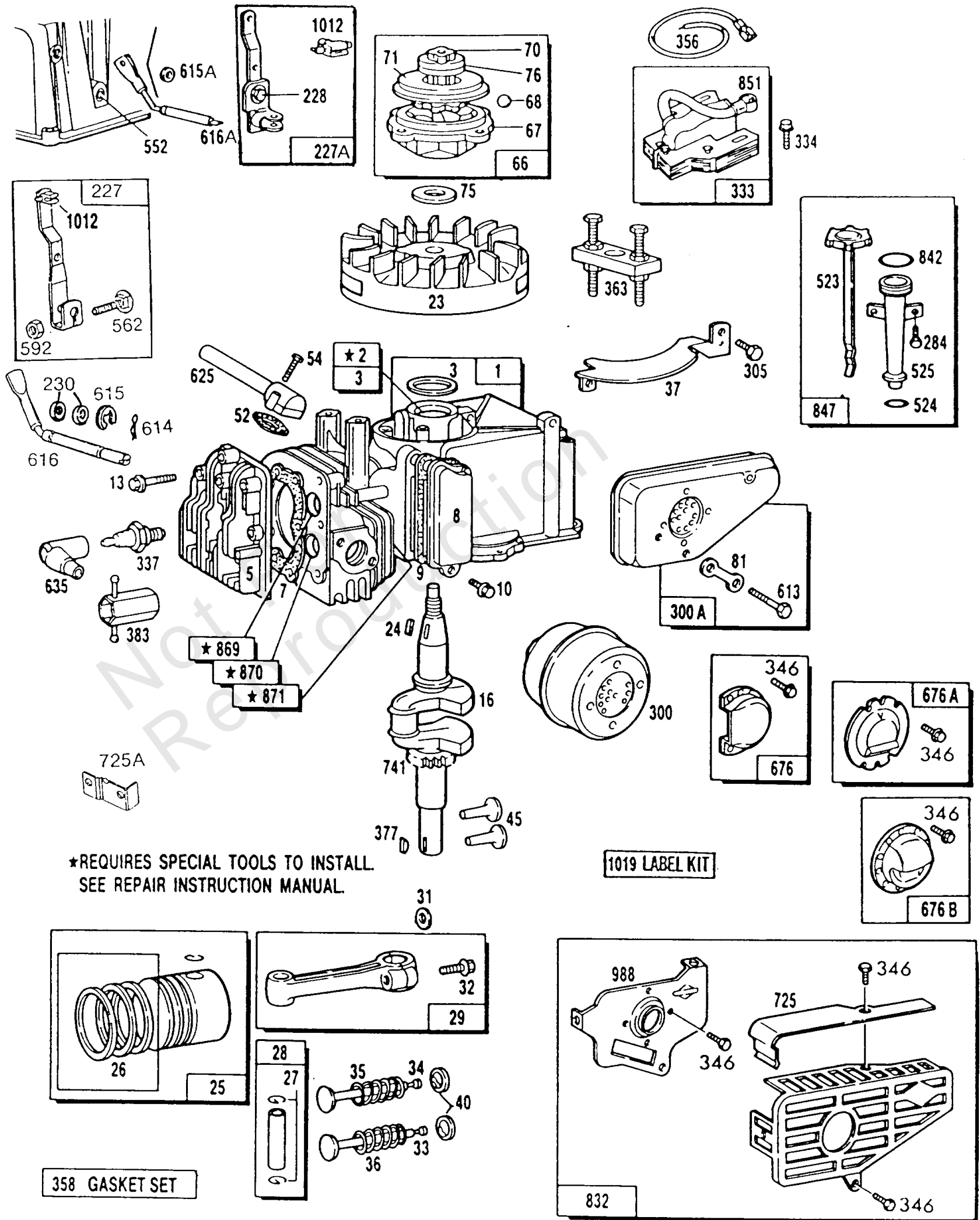
Carburetor, Fuel Tank, Brake

REF NO	PART NO	QTY	DESCRIPTION
617	270344		SEAL, O-Ring -(Intake Manifold) Included in Carburetor Overhaul Kit-See Ref 121. Included in Carburetor Gasket Set-Part No. 398183
618	262035		SPRING, Choke Return
621	396847		SWITCH, Stop
634	-----		No Nomenclature -Included in Carburetor Overhaul Kit-See Ref 121. Included in Carburetor Gasket Set-Part No. 398183
634A	-----		No Nomenclature -Included in Carburetor Overhaul Kit-See Ref 121. Included in Carburetor Gasket Set-Part No. 398183
642	223306		COVER, Air Cleaner
681	490549		KIT, Needle Valve
729	280470		CLIP, Wire
852	396397		CLEANER, Air
922	261647		SPRING, Governor -(Return)
923	394867		PIVOT, Band Brake
933A	223448		PIVOT, Band Brake
933	223278		SPACER -(Used on Engines Without Band Brake)
934	94037		SCREW
935	398758		SWITCH, Interlock -(12 Volt)
942	493248		BRACKET, Brake
955A	231534		RETAINER, Needle Valve
957	397974		CAP, Fuel Tank -(Plastic)
958	399517		VALVE, Fuel Shut Off -(Plastic)
959	399937		BRACKET, Fuel Tank
960	399938		BRACKET, Fuel Tank
961A	93847		SCREW -(Fuel Tank) (Tank)
961B	93980		SCREW -(Fuel Tank) (Tank)
961	93032		SCREW -(Fuel Tank) (Tank)
971A	94256		SCREW -(Air Cleaner)
973	94114		SCREW
975	398191		BOWL, Float
977	490937		SET, Carburetor Gasket -(Lms 11)



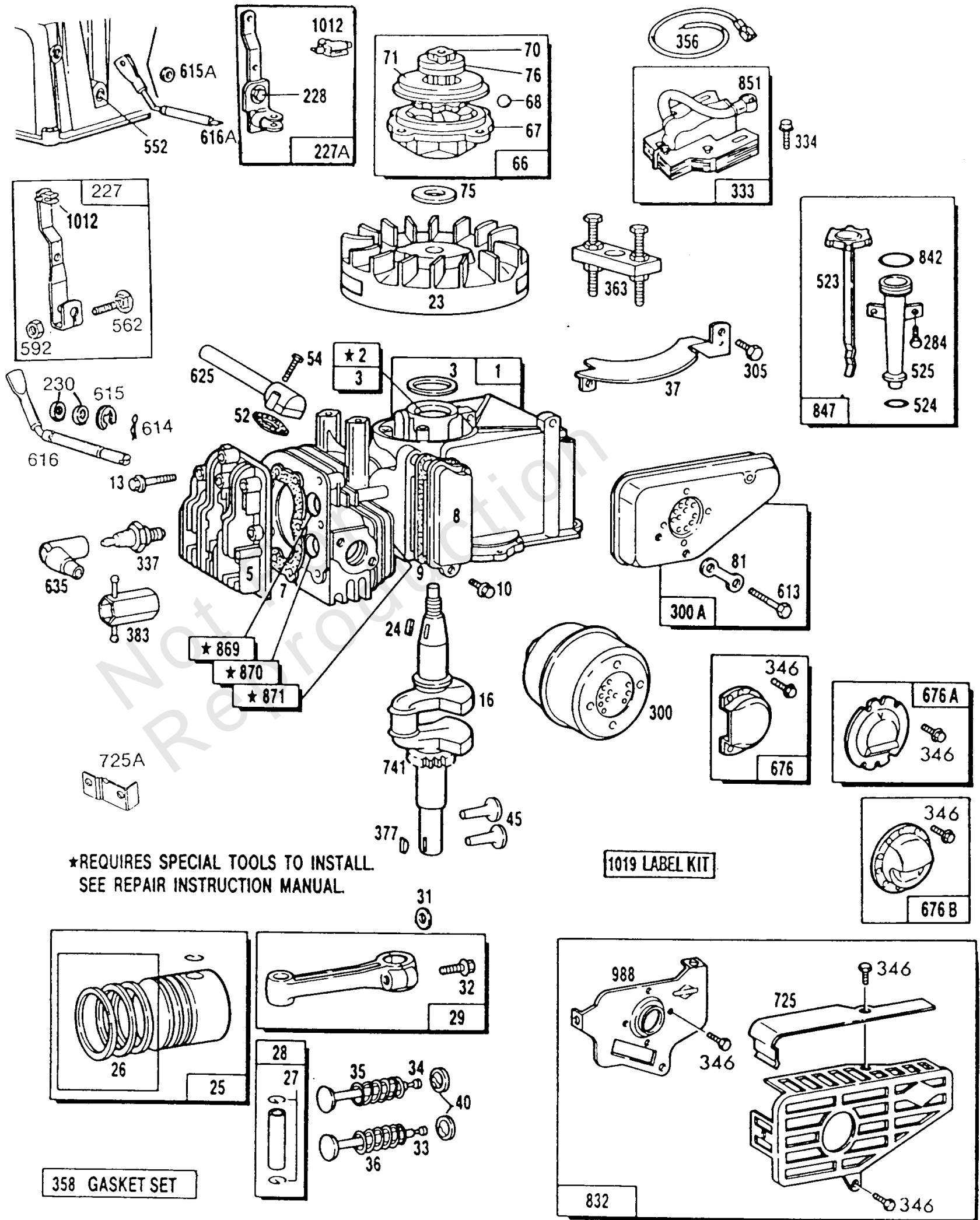
Cyl,Oil Fill,Piston,Mufflers

REF NO	PART NO	QTY	DESCRIPTION
1	398677		CYLINDER ASSEMBLY
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	395653		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 Bore-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	230126		PIN, Retainer
40	292259		RETAINER, Valve -(Exhaust)
40	93312		RETAINER, Valve -(Valves With Groove In Stem)



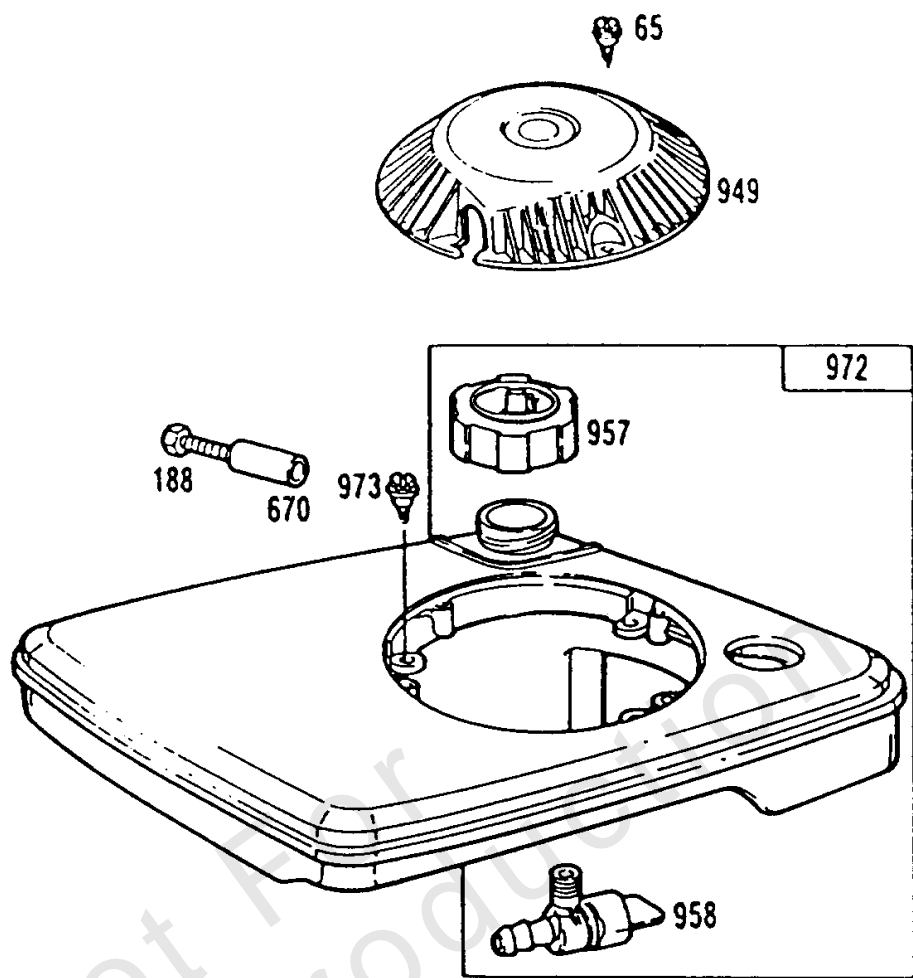
Cyl,Oil Fill,Piston,Mufflers

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
227A	396504		LEVER, Governor Control -(Mechanical Governor)
227	491482		LEVER, Governor Control
228	93758		SCREW -(Rotating Screen)
230	220680		WASHER
284	94073		SCREW
300A	394644		MUFFLER
300	394569		MUFFLER -(Lo Tone)
305	94153		SCREW
333	398593		ARMATURE, Magneto -(Magnetron Ignition)
334	93381		SCREW
337	293918		PLUG, Spark
337	298809		PLUG, Spark
337	492167		PLUG, Spark
337	802592		PLUG, Spark -(Resistor)
346	93705		SCREW -(8-32 X 3/8)
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) Except when Used on Type Nos. Listed Under Note
524	271485		SEAL, O-Ring -(Dipstick Tube) (Oil Fill)
525	280504		TUBE, Dipstick -(Rewind Starter) Expect when Used on Type Nos. Listed Under Note.
552	230732		BUSHING, Governor Crank -(3/16 I.D.)
562	92613		BOLT -(Governor Lever)
592	231082		NUT -(Governor Control)



Cyl,Oil Fill,Piston,Mufflers

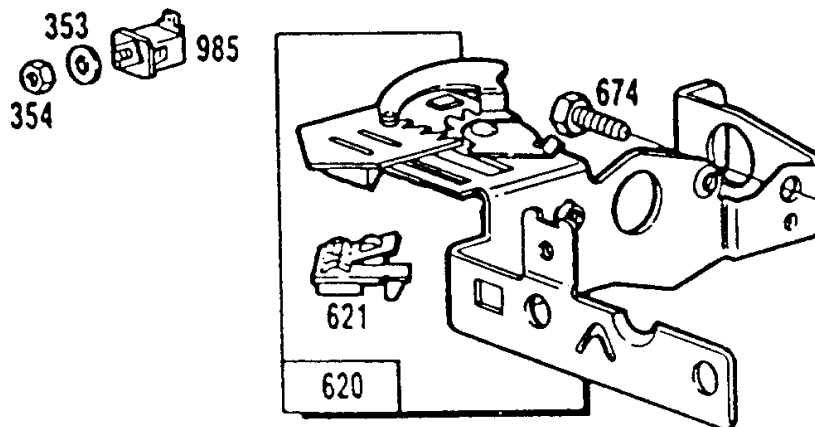
REF NO	PART NO	QTY	DESCRIPTION
613	93935		SCREW -(Muffler)
614	93306		PIN, Cotter
615	93307		RETAINER, Governor Shaft
616A	394075		CRANK, Governor -(Mechanical Governor)
616	491405		CRANK, Governor
625	397973		STACK, Air
635	66538		BOOT, Spark Plug
676B	396548		DEFLECTOR, Muffler
676A	393756		DEFLECTOR, Muffler -(Side Outlet)
676	393760		DEFLECTOR, Muffler
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) Except when Used on Type Nos. Listed Under Note.
851	221798		TERMINAL, Spark Plug
869	210879		SEAT, Valve -(Intake) -Used Before Code Date 88080100
869	211172		SEAT, Valve -(Intake) -Used After Code Date 88073100
870	211291		SEAT, Valve -(Exhaust)
871	231349		BUSHING-VALVE GUIDE -(Exhaust)
871	63709		BUSHING, Valve Guide -(Intake)
988	223600		BRACKET, Muffler
1012	280414		RETAINER, Link
1019	491081		KIT, Label



REF. 972

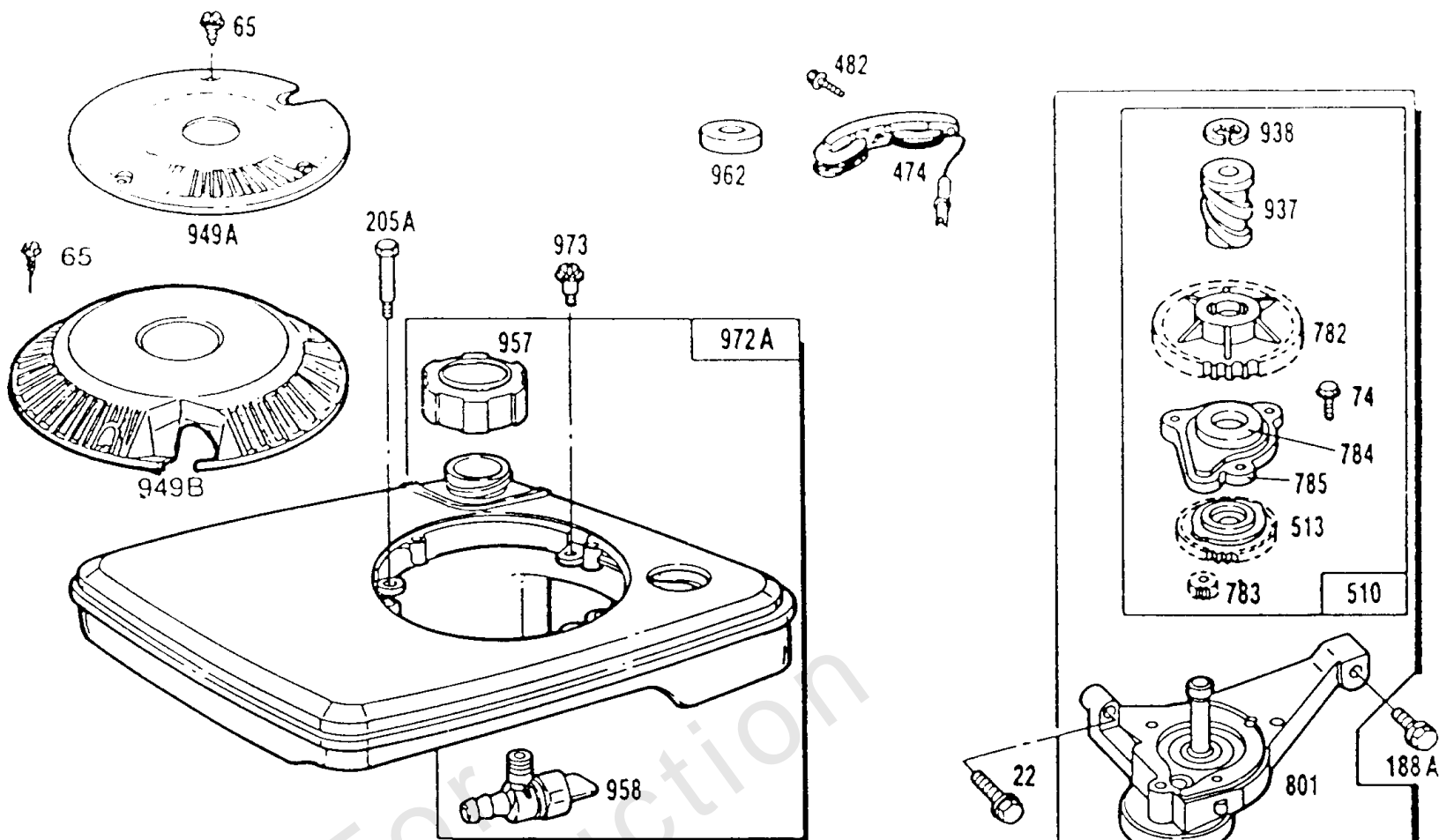
FUEL TANKS FOR ENGINES WITH REWIND START ONLY.

COLOR	BLACK	GREY	AMER. RED(I/C)	SUN YELLOW
PART NO.	490622	490808	490806	490804



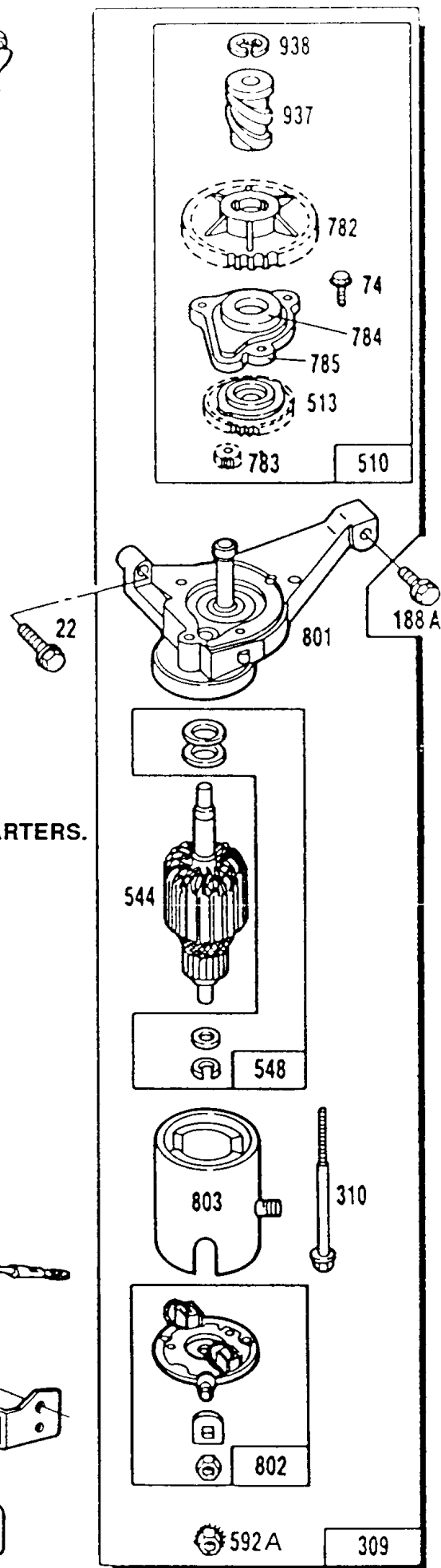
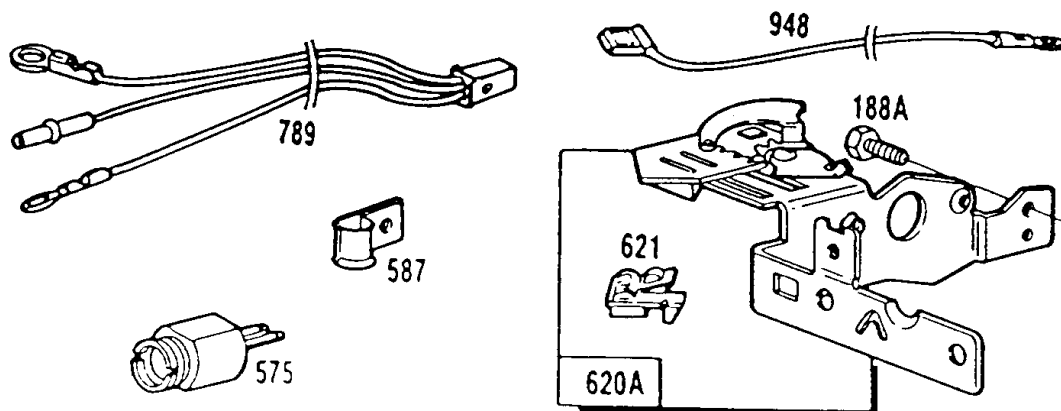
Fuel Tank Assy,Control Brkt

REF NO	PART NO	QTY	DESCRIPTION
65	94058		SCREW -(Rewind Starter)
188	398540		SCREW -(Control Bracket)
353	92791		WASHER
354	90576		NUT -(Ground Terminal)
620	398637		BRACKET, Control -(Rewind Starter)
621	396847		SWITCH, Stop
670	280512		SPACER, Fuel Tank
674	94117		SCREW -(Tank) (Fuel Tank)
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)
973	94114		SCREW
985	398525		INSULATOR



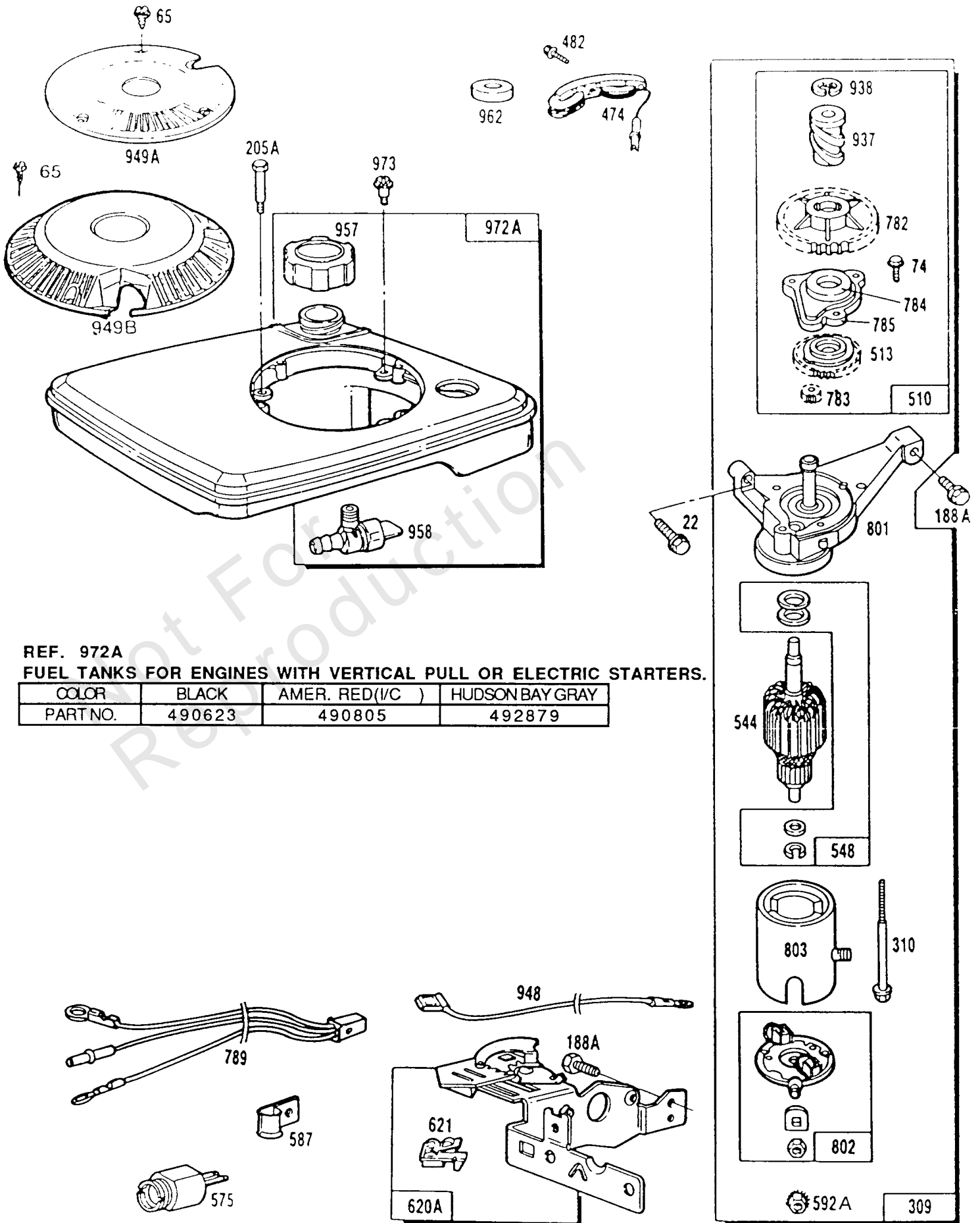
REF. 972A
 FUEL TANKS FOR ENGINES WITH VERTICAL PULL OR ELECTRIC STARTERS.

COLOR	BLACK	AMER. RED(I/C)	HUDSON BAY GRAY
PART NO.	490623	490805	492879



FuelTank,Controls,ElectStart

REF NO	PART NO	QTY	DESCRIPTION
22	93032		SCREW -(Fuel Tank) (Tank)
65	94058		SCREW -(Rewind Starter)
74	-----		No Nomenclature -Included in Starter Drive Kit-Part No. 395727
188A	93847		SCREW -(Fuel Tank) (Tank)
205A	94141		SCREW
309	398635		MOTOR, Starter -(12 Volt)
310	94051		SCREW
474	397880		ALTERNATOR
482	94016		SCREW
510	395727		DRIVE, Starter
513	394815		CLUTCH, Starter -Included in Starter Drive Kit-Part No. 395727
544	398636		ARMATURE, Starter -(12 Volt)
548	396067		WASHER -(Starter Motor)
575	396291		SWITCH, Starting
587	220162		CLIP, Wire
592A	93991		NUT -(10-24)
621	396847		SWITCH, Stop
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	223123		COVER, Gear -Included in Starter Drive Kit-Part No. 395727
785	271457		GASKET, Gear Cover/Housing -Included in Starter Drive Kit-Part No. 395727
789	397637		HARNESS, Wiring -(12 Volt)
789	397916		HARNESS, Wiring -(Non Compliance Engines)
801	398244		CAP, Drive
802	396061		CAP, End
803	396059		HOUSING, Starter
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
948	397803		HARNESS, Wiring -(12 Volt)
949A	280509		GUARD, Rewind -(Electric Starter)
957	397974		CAP, Fuel Tank -(Plastic)
958	399517		VALVE, Fuel Shut Off -(Plastic)
962	231277		BUSHING, Alternator
972A	490623		TANK, Fuel -(Black) (Pull or Electric Starter)
972A	492879		TANK, Fuel -(Grey)



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

COLOR	BLACK	AMER. RED(I/C)	HUDSON BAY GRAY
PART NO.	490623	490805	492879

FuelTank,Controls,ElectStart

REF NO	PART NO	QTY	DESCRIPTION
972A	490805		TANK, Fuel -(Red)
973	94114		SCREW

Not For Reproduction

Replacement Engine - US & Canada

REF NO	PART NO	QTY	DESCRIPTION
	126M021015	1	Replacement Engine
	691291	1	SPRING, Governor -Add Part
	690319	1	SPRING, Governor -Remove Part
-----			Top No-Load Speed: 3600 -Trim: ALL
-----			Service Note: This Service Engine is NLA. Contact Your Engine Distributor For a Replacement

Not For Reproduction

