

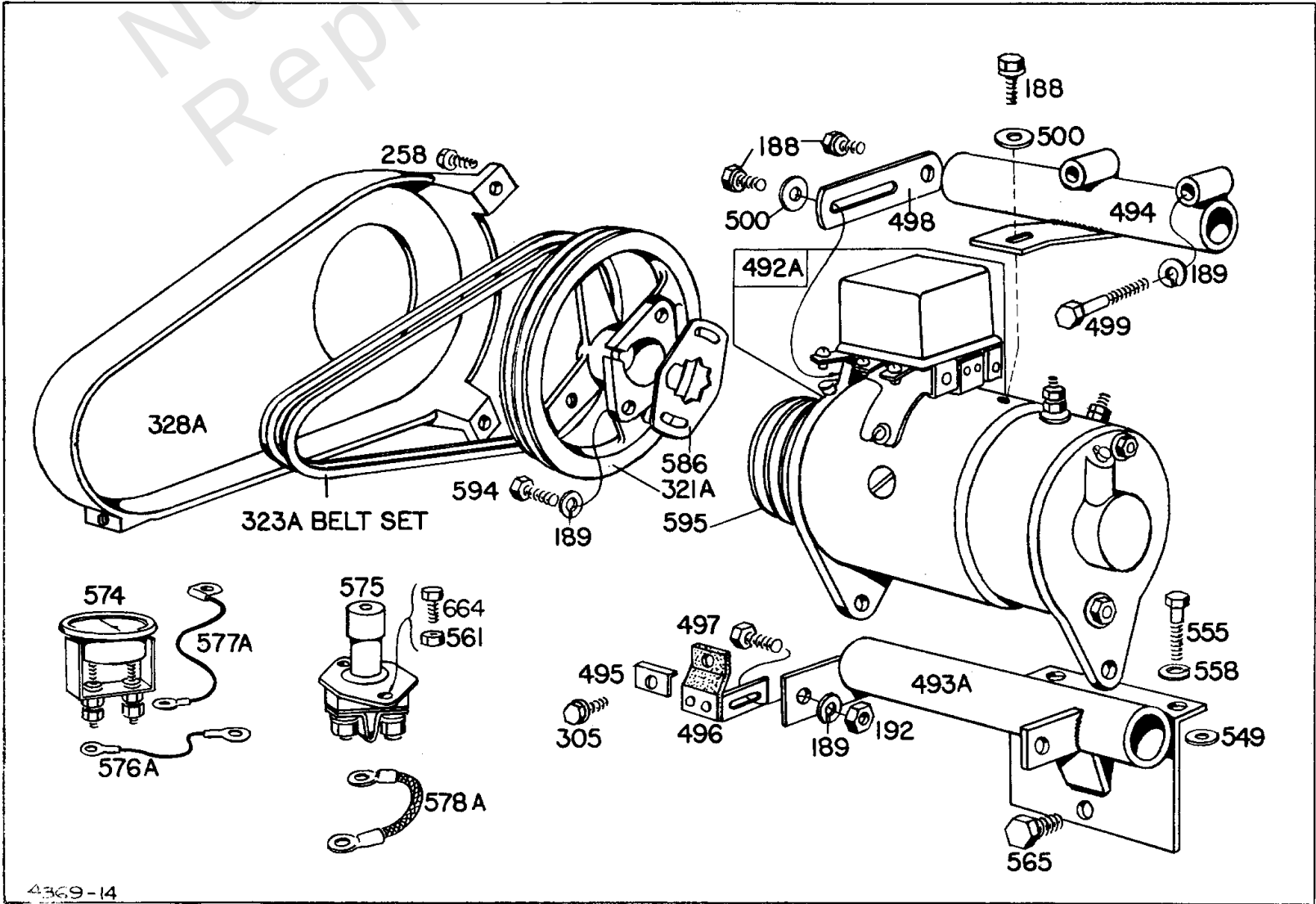
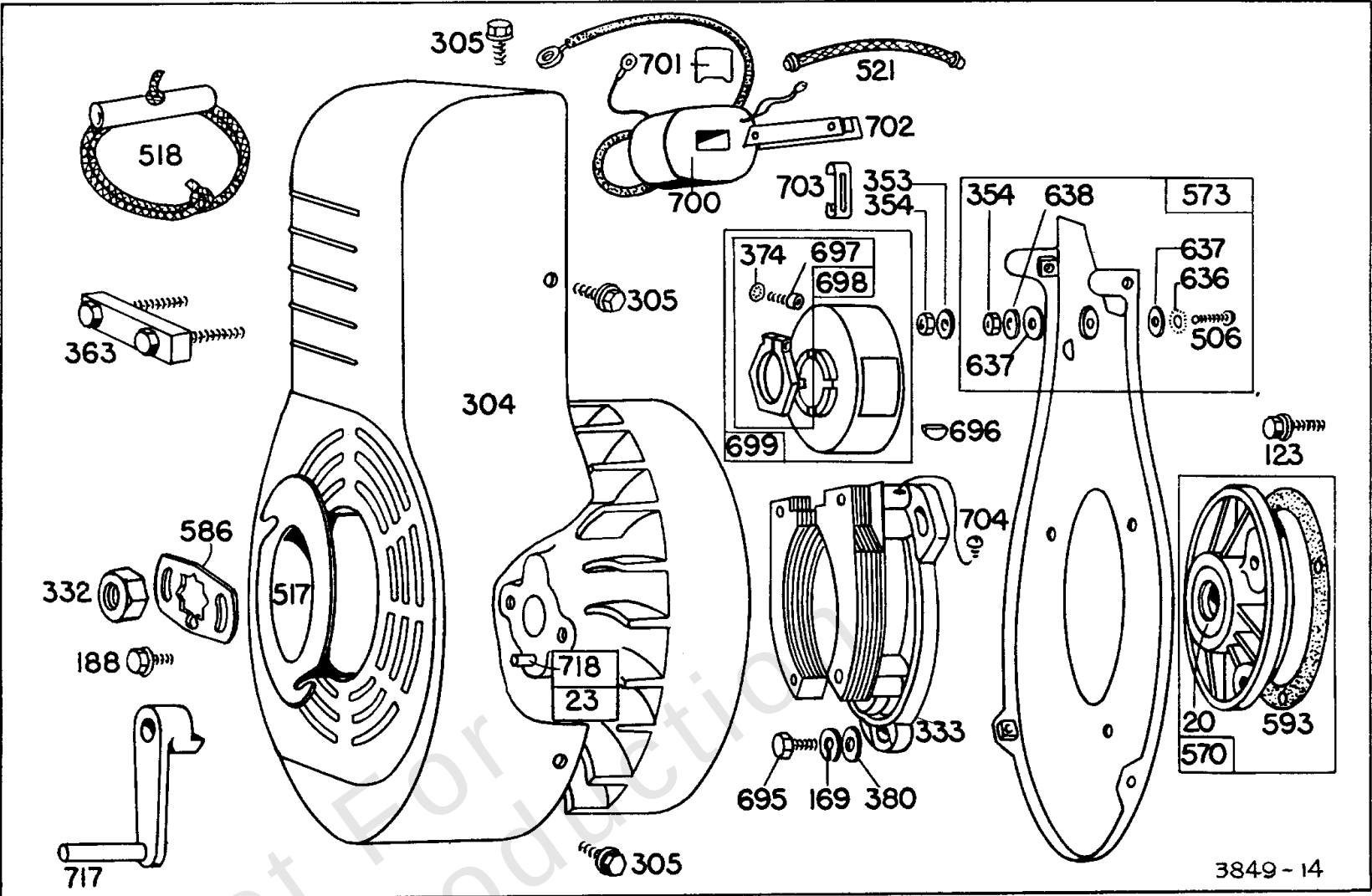


Parts Manual

Mfg. No: 231431-0021-99

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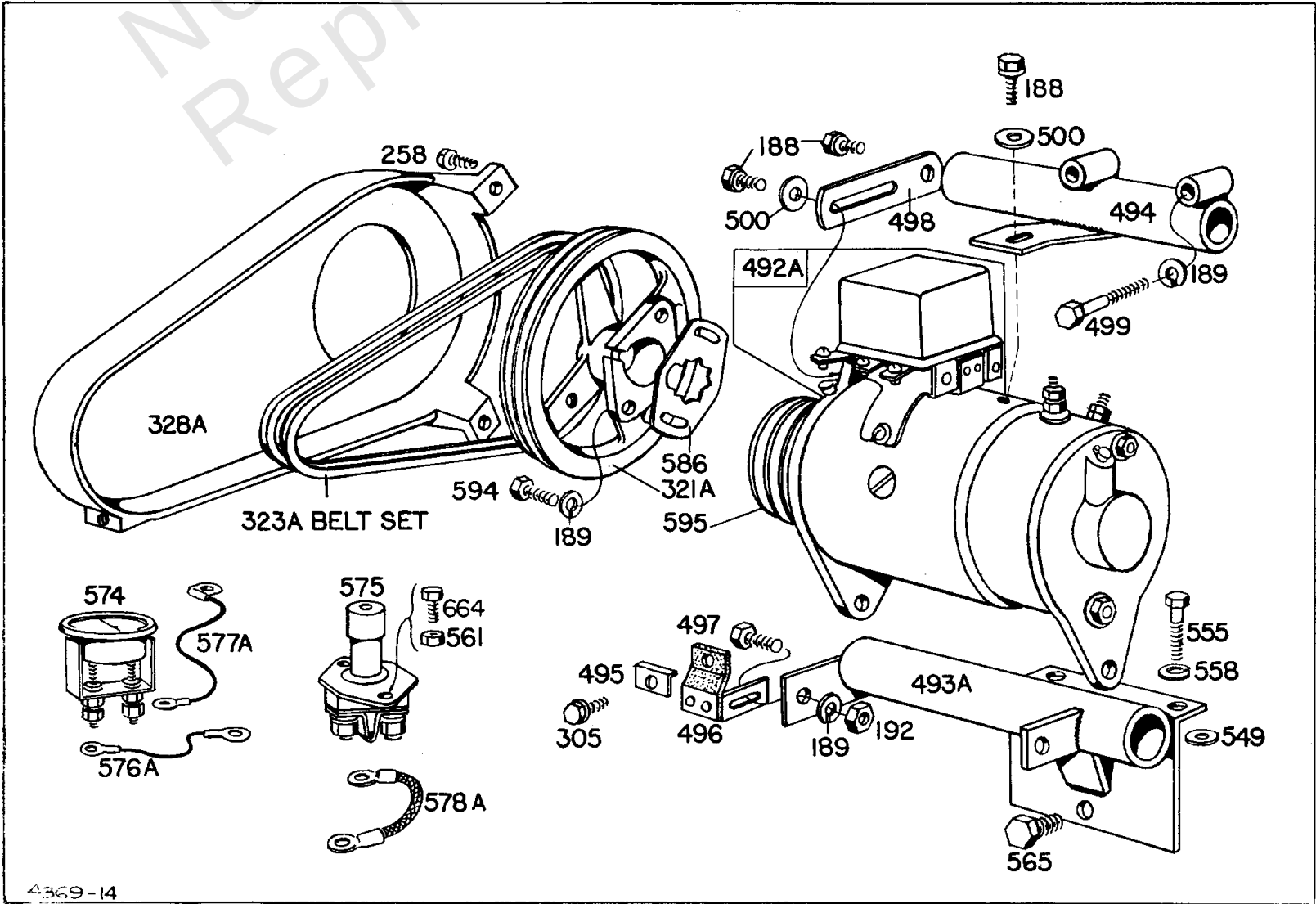
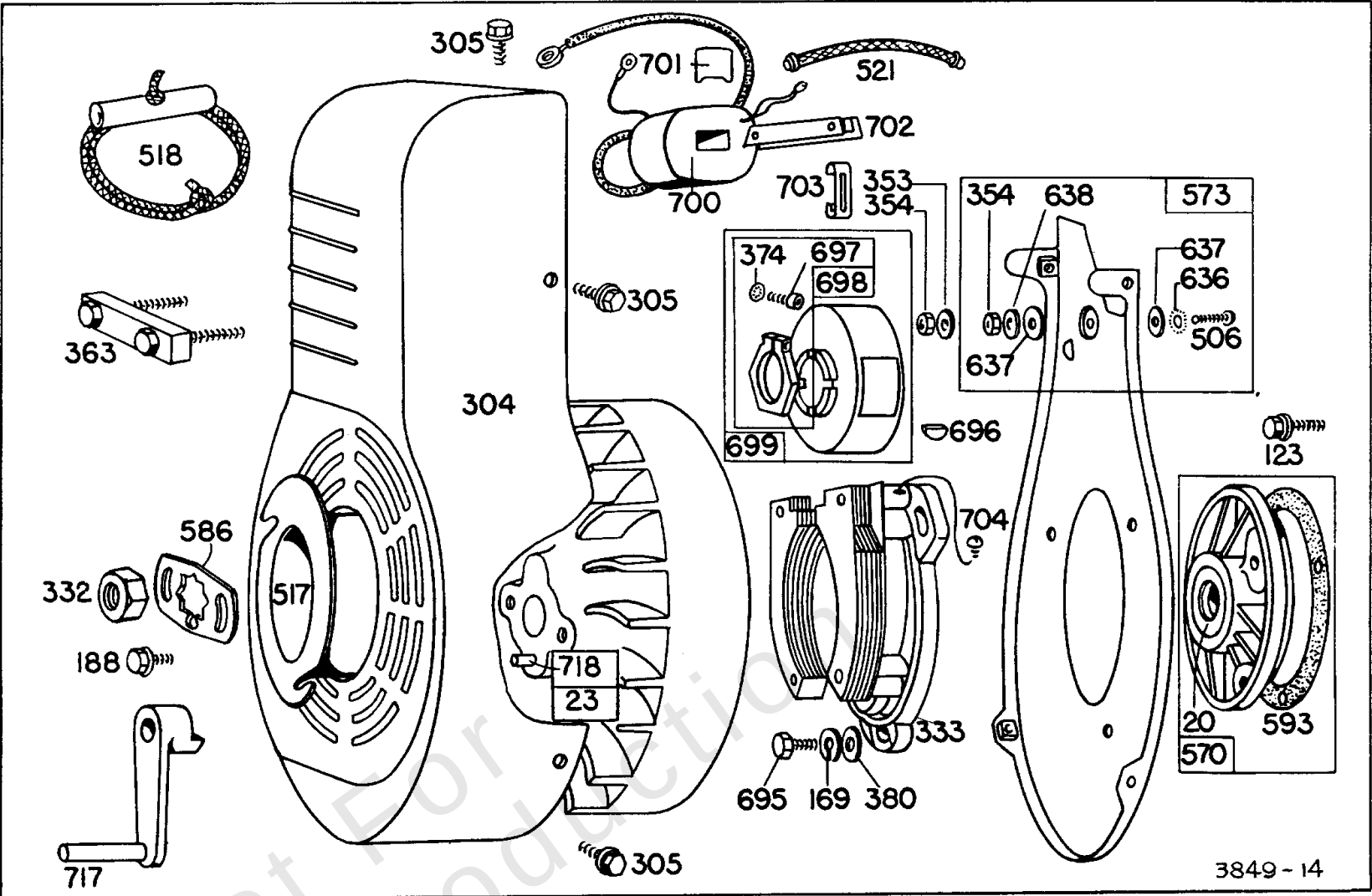


BlowerHsg,Elect Starter,Elect

REF NO	PART NO	QTY	DESCRIPTION
20	291675		SEAL, Oil -(Crankcase Cover) Used in Crankcase Covers
23	291657		FLYWHEEL
23	294721		FLYWHEEL -Uses: 220802 Screen (Mounted to Flywheel) 220803 Support-Screen 220397 Spacer (4) 93415 Screw (4)
123	93415		SCREW -(1/4-20 X 3/4)
169	90832		SCREW -(Blower Housing)
188	93535		SCREW -(5/16-18 X 3/4)
189	90366		WASHER
192	91397		NUT -(5/16-18)
258	93062		SCREW
304	291407		HOUSING, Blower
305	93158		SCREW -(1/4-20 X 5/8)
321A	210630		PULLEY, Starter
323A	296499		BELT, Vee -(Consists Of Matched Set Of 2)
328A	210636		GUARD, Belt
332	23949		NUT -(Flywheel)
333	290621		ARMATURE, Magneto
353	92791		WASHER
354	90576		NUT -(Ground Terminal)
363	19068		PULLER, Flywheel
374	92813		WASHER
380	62199		WASHER
492A	294726		MOTOR, Starter -(Includes Voltage Regulator) (Delco-remy #1101971)
493A	294815		BRACKET, Starter Motor
494	294770		BRACKET, Starter Motor
495	220883		CLAMP
496	294779		BRACKET, Mounting
497	92271		SCREW -(5/16-18 X 1)
498	220881		BRACKET, Link
499	92035		SCREW
500	91325		WASHER
506	90072		SCREW -(8-32 X 5/8)
517	22809		PULLEY, Rope Starter
518	69932		GRIP, Starter Rope
521	291508		SHIELD, Protective
521	293195		SHIELD, Protective -Includes: 292412 Elbow-Spark Plug Cable Uses: 26487 Clamp-Shielding 66298 Bushing-Spark Plug Terminal 92704 Terminal-Spark Plug 92864 Washer- Lock (Shielding Lead) 92794 Nut-Hex. (Shielding Lead)
549	22243		WASHER -(Bracket)

Footnotes:

For Connecting Rod with .020" undersize Crankpin Bore-order No. 390304
Used to Mount Valve Cover

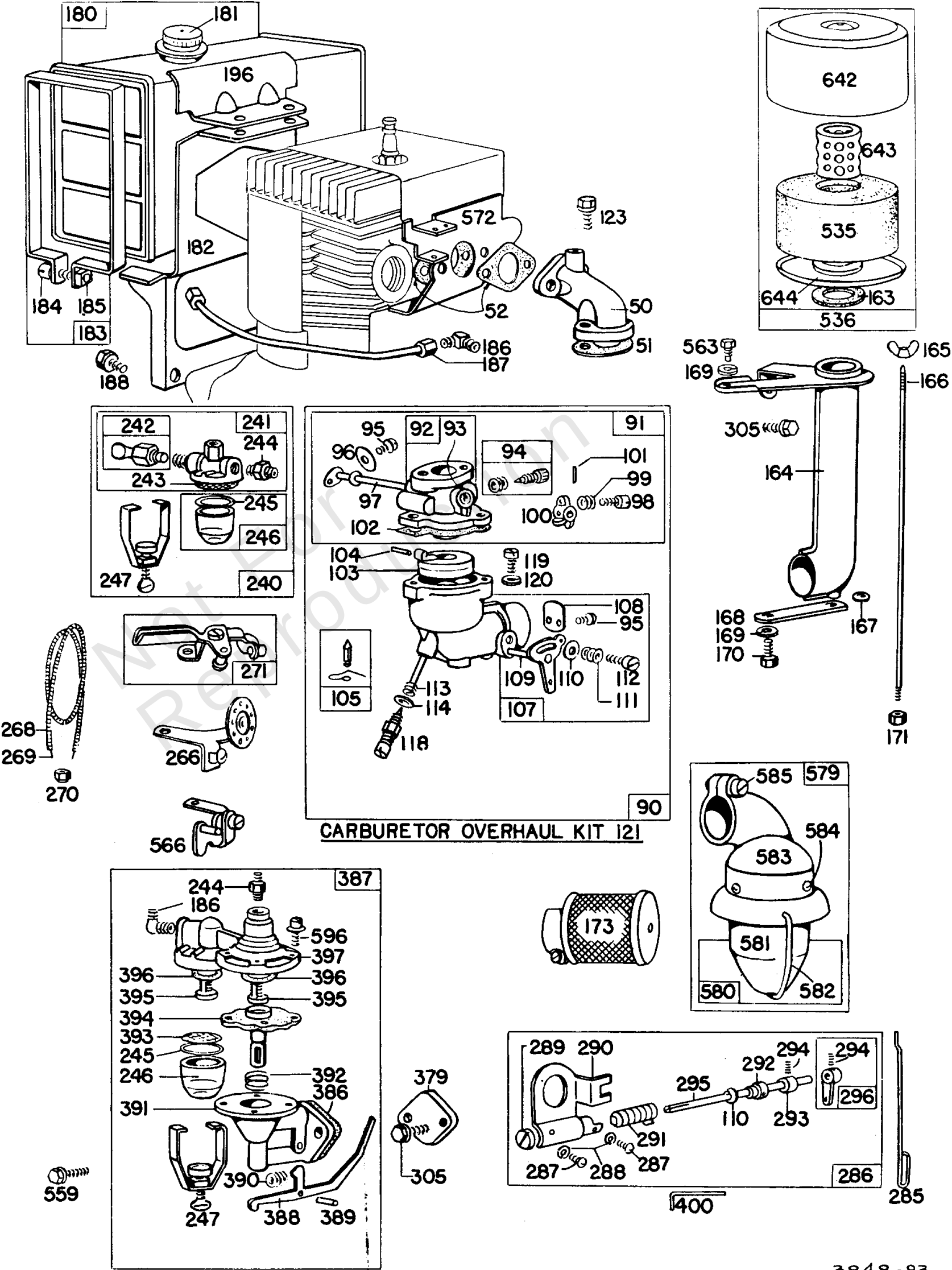


BlowerHsg,Elect Starter,Elect

REF NO	PART NO	QTY	DESCRIPTION
555	90804		SCREW
558	92268		WASHER -(3/8 X 1/8 X 3/32)
561	92278		NUT -(Starting Switch)
565	93142		SCREW
570	291672		SUPPORT, Bearing -(Ball Bearing)
573	293259		PLATE, Back -Includes: 92786 Screw-Machine, Rd. Hd.-8-32 x 5/8 92794 Nut-Hex.-8-32
573	298159		PLATE, Back
574	295158		AMMETER
575	299139		SWITCH, Starting
576A	295160		WIRE ASSEMBLY
577A	295161		WIRE ASSEMBLY
578A	295162		CABLE, Starter
586	22906		RETAINER
593	27349		GASKET, Bearing Support -(.020) Included in Gasket Set-Part No. 291728
593	27374		GASKET, Bearing Support -(.005) Included in Gasket Set-Part No. 291728
593	27375		GASKET, Bearing Support -(.009) Included in Gasket Set-Part No. 291728
594	91449		SCREW
595	230603		PULLEY, Starter -(Delco-remy No. 1945744)
636	92864		WASHER
637	66154		WASHER -(Fiber)
638	26404		WASHER
664	93415		SCREW -(1/4-20 X 3/4)
695	91146		SCREW
696	92269		KEY, Woodruff
697	93186		SCREW
698	295128		CLAMP
699	291363		ROTOR ASSEMBLY
700	290880		COIL, Ignition
701	22859		RETAINER
702	290614		COIL, Ignition
703	22928		CLIP -(Armature Spring)
704	90923		SCREW
717	291697		CRANK, Starting
718	23850		PIN, Locating

Footnotes:

For Connecting Rod with .020" undersize Crankpin Bore-order No. 390304
Used to Mount Valve Cover



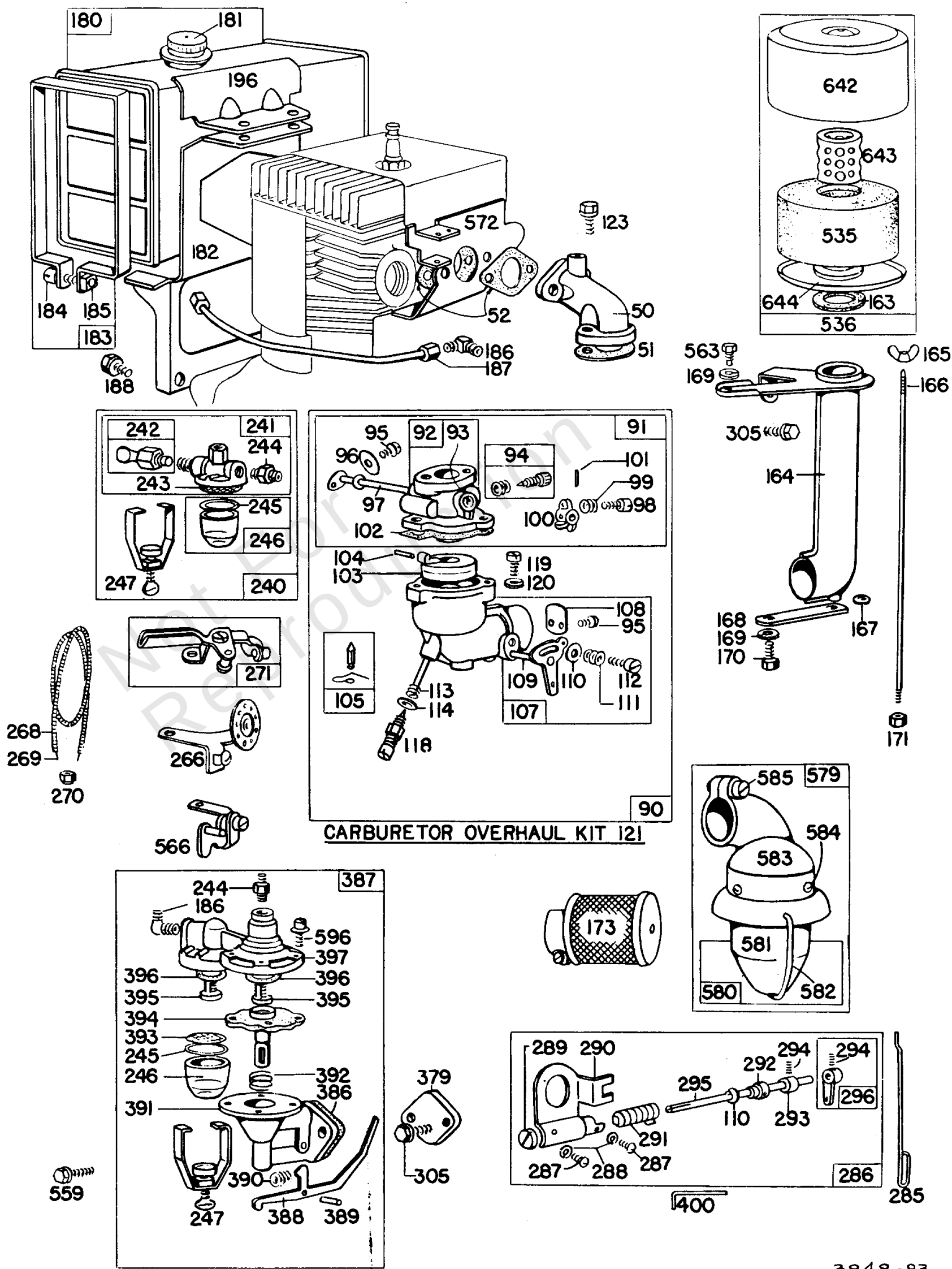
3848-83

Carb Assy,Fuel Tank, A/C

REF NO	PART NO	QTY	DESCRIPTION
50	21920		MANIFOLD, Intake
51	65647		GASKET, Intake -Included in Carburetor Overhaul Kit-Part No. 291763. Included in Gasket Set-Part No. 291728
52	27381		GASKET, Intake -Included in Gasket Set-Part No. 291728
90	293950		CARBURETOR
91	291655		BODY, Upper Carburetor
92	99375		BODY, Upper Carburetor
93	23108		BUSHING, Throttle Shaft
94	292681		VALVE, Idle Mixture -Included in Carburetor Overhaul Kit-Part No. 291763
95	93038		SCREW -(Throttle Valve)
96	62940		VALVE, Throttle
97	291300		SHAFT, Throttle
98	91920		SCREW -(8-32 X 5/8)
99	26157		SPRING, Compression
100	61967		STOP, Throttle
101	93043		PIN, Shaft
102	27034		GASKET, Carburetor Body -Included in Carburetor Overhaul Kit-Part No. 291763
103	99333		FLOAT, Carburetor
104	230896		PIN, Float Hinge -Included in Carburetor Overhaul Kit-Part No. 291763
105	299096		KIT, Needle/Seat -Included in Carburetor Overhaul Kit-Part No. 291763
107	89915		BODY, Lower Carburetor
108	62872		VALVE, Choke
109	291747		SHAFT, Choke
109	89531		SHAFT, Choke
110	62899		WASHER -(Thermostat)
111	26155		SPRING, Friction
112	23123		SCREW
113	390395		NOZZLE, Carburetor -Included in Carburetor Overhaul Kit-Part No. 291763
114	68667		WASHER -(Viton Seat) Included in Carburetor Overhaul Kit-Part No. 291763
118	391213		VALVE, Float Needle -Uses: 292226 Retainer Assembly-Needle Valve 68677 Packing-Needle Valve
118	99525		VALVE, High Speed -Included in Carburetor Overhaul Kit-Part No. 291763
119	90746		SCREW -(10-32 X 5/8)
120	92290		WASHER
121	291763		KIT, Carburetor Overhaul
123	93415		SCREW -(1/4-20 X 3/4)
163	67247		GASKET, Air Cleaner -Included in Gasket Set-Part No. 291728
164	291462		ELBOW, Intake

Footnotes:

For Connecting Rod with .020" undersize Crankpin Bore-order No. 390304



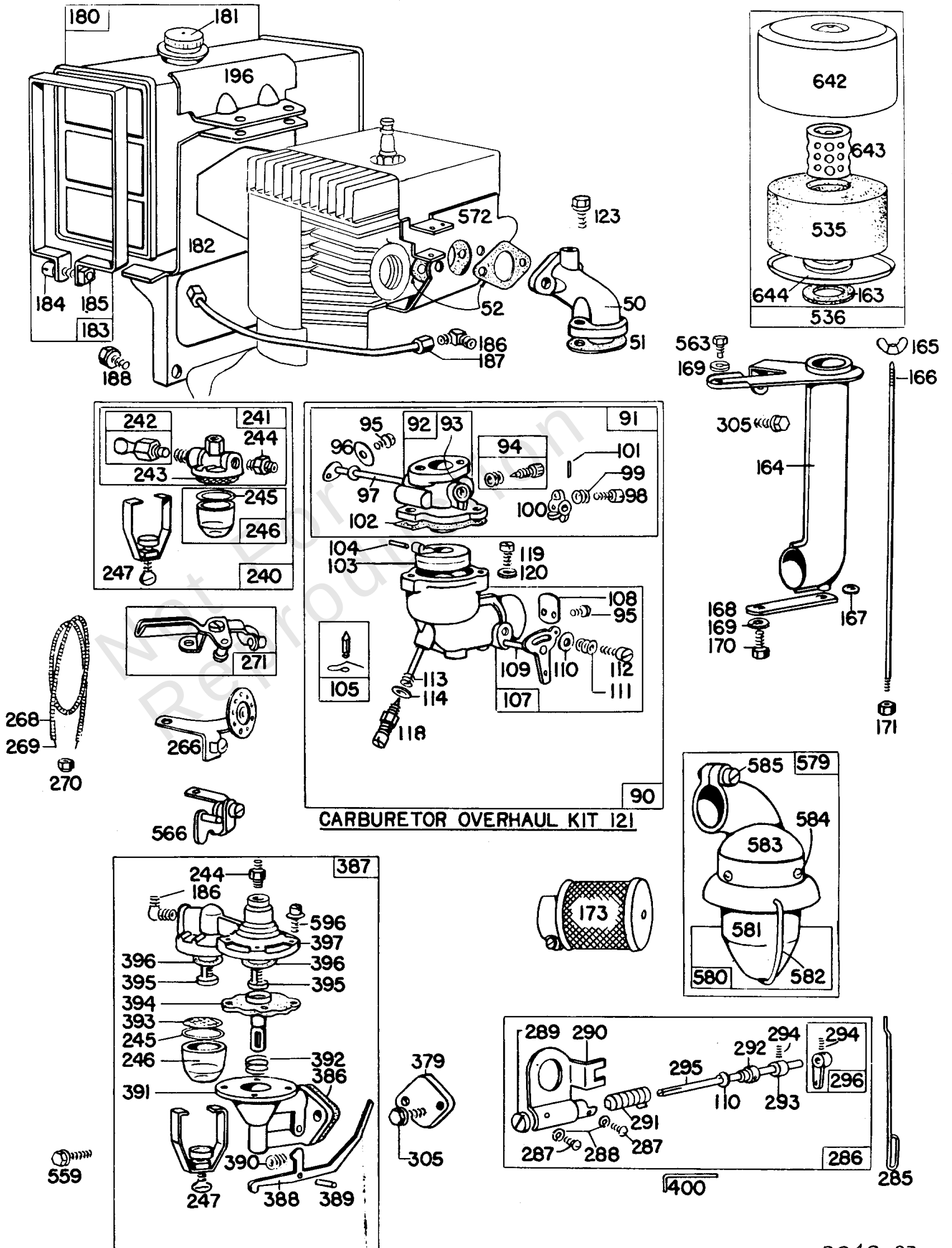
3848-83

Carb Assy,Fuel Tank, A/C

REF NO	PART NO	QTY	DESCRIPTION
165	92650		NUT
166	230739		STUD -(Air Cleaner)
167	66648		GASKET, Air Cleaner
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)
173	99230		ARRESTOR, Spark
180	293024		TANK, Fuel -(8 Quart) Uses: 92958 Plug-Drain
180	293600		TANK, Fuel -(6 Quart) Uses: 92958 Plug-Drain
181	69221		CAP, Fuel Tank -(1 3/4 O.D. Top)
182	22813		BRACKET, Fuel Tank -(8 Quart) (Remote Mount Only)
183	291490		STRAP, Fuel Tank -(6 Quart)
184	91257		SCREW -(1/4-20 X 1-1/2)
185	90970		NUT -(1/4-20)
186	230318		CONNECTOR, Hose
186	63377		CONNECTOR, Hose -(Metal Fuel Pipe)
186	93255		CONNECTOR, Hose
187	291704		LINE, Fuel -(18)
187	292370		VALVE, Fuel Shut Off
187	293059		CAP, Fuel Tank
187	293646		LINE, Fuel -(Flexible Line)
187	89248		LINE, Fuel -(2 1/4) (Metal)
187	92953		NIPPLE, Fuel -(90 Degree) (At Lower Shut-Off Valve Outlet)
188	93535		SCREW -(5/16-18 X 3/4)
196	22907		BRACKET, Fuel Tank -(8 Quart) (Remote Mount Only)
240	210212		OUTLET, Tank -Uses: 93372 Connector-Reducing Elbow
240	298090		FILTER, Fuel
240	99910		FILTER, Fuel
241	99909		COVER, Fuel Filter -(Metal Fuel Pipe)
242	295913		VALVE, Fuel Shut Off
243	22547		STRAINER, Fuel
244	53029		CONNECTOR, Hose
245	68477		GASKET, Fuel Bowl -Included in Gasket Set-Part No. 291728

Footnotes:

For Connecting Rod with .020" undersize Crankpin Bore-order No. 390304

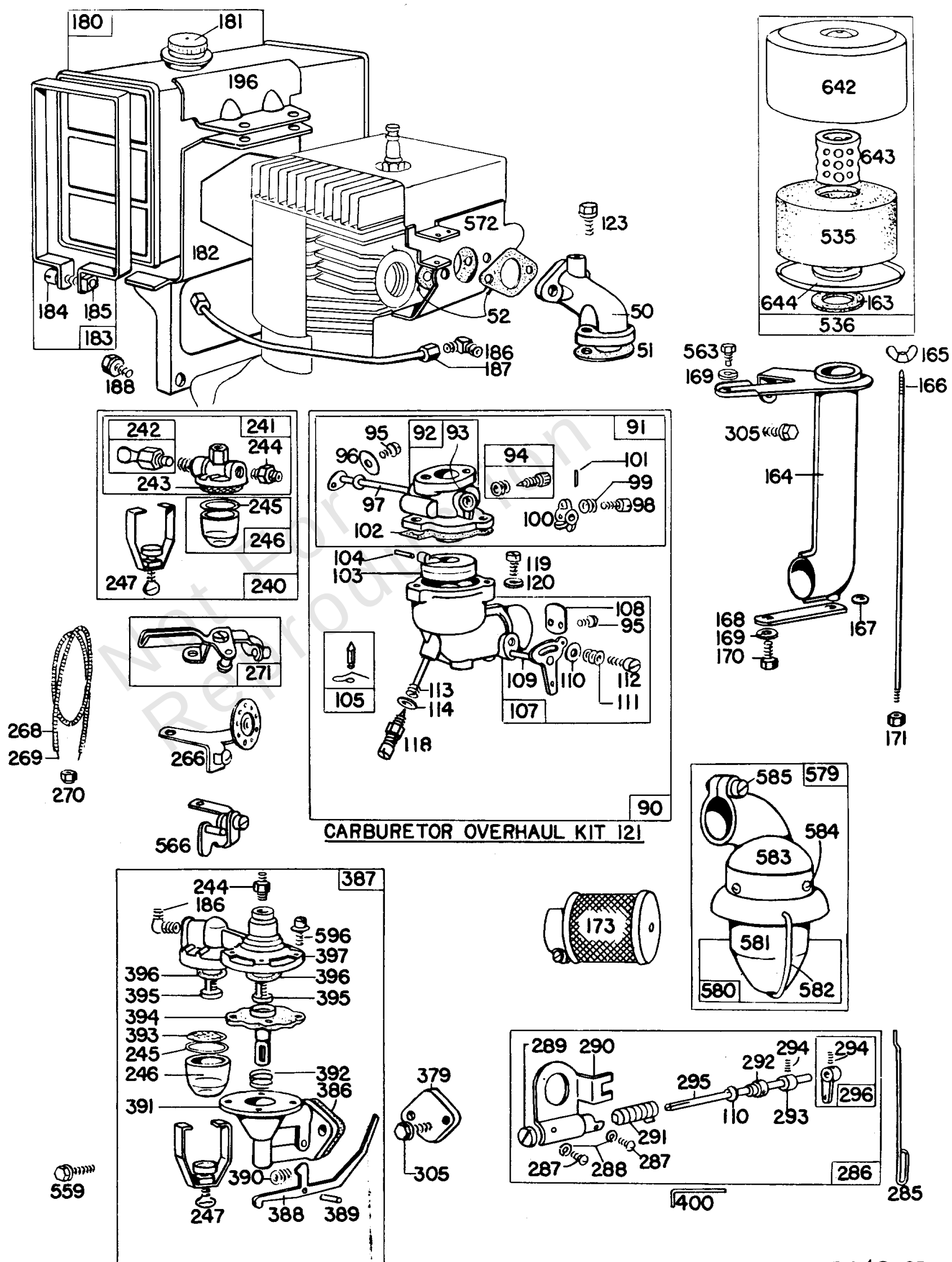


Carb Assy,Fuel Tank, A/C

REF NO	PART NO	QTY	DESCRIPTION
246	298683		BOWL, Fuel Filter
247	99665		YOKE, Bowl
266	291460		CONTROL, Throttle -(Disc Type)
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
285	26684		LINK, Choke
286	291445		THERMOSTAT
287	90050		SCREW -(6-32 X 1/4)
288	90362		WASHER -(6 X 3/64 X 1/32)
289	23886		THERMOSTAT
290	291444		THERMOSTAT
291	26594		THERMOSTAT
292	23885		THERMOSTAT
293	23884		STOP, Shaft
294	92678		SCREW
295	23954		ROD, Control
296	291044		LEVER, Actuator
305	93158		SCREW -(1/4-20 X 5/8)
379	22984		COVER, Fuel Pump
386	27314		GASKET, Fuel Bowl
387	291493		PUMP, Fuel
388	220431		LEVER, Control -(Fuel Pump)
389	23783		PIN, Retainer
390	26616		KIT, Spring/Screw
391	21695		BODY, Fuel Pump
392	26588		SPRING, Pump Diaphragm
393	22740		STRAINER, Fuel
394	290622		DIAPHRAGM, Carburetor
395	290623		SEAT, Valve
396	66204		GASKET, Fuel Bowl
397	21694		COVER, Fuel Filter
400	230010		WRENCH
535	270093		FILTER, Air Cleaner Foam
536	297869		CLEANER, Air
559	93294		SCREW -(5/8)
563	92863		SCREW
566	99458		KIT, Idle Speed -Uses: 91146 Screw-Cap, Hex. Hd.-1/4-20 x 7/8 For mounting
572	291871		GUIDE, Air

Footnotes:

For Connecting Rod with .020" undersize Crankpin Bore-order No. 390304



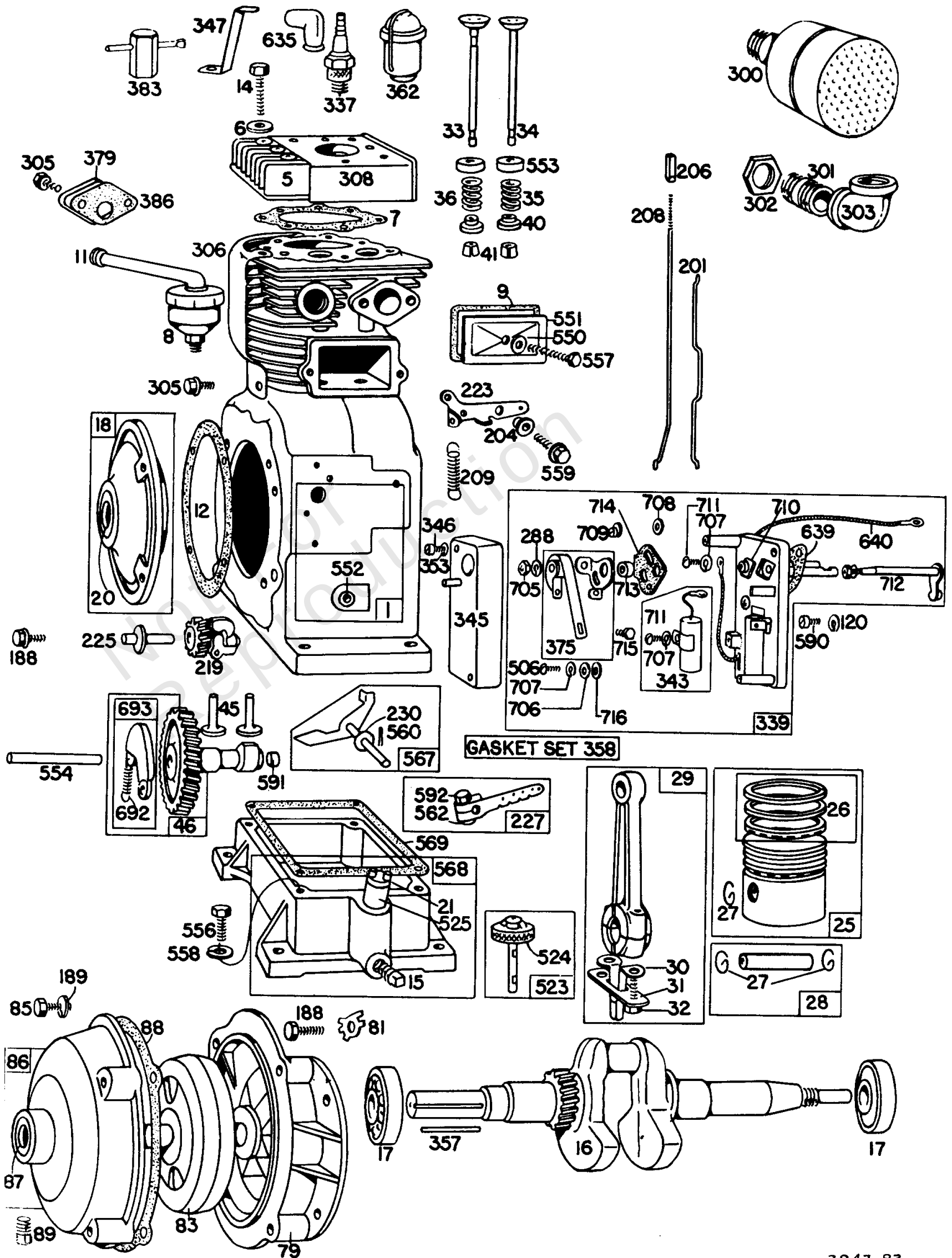
Carb Assy,Fuel Tank, A/C

REF NO	PART NO	QTY	DESCRIPTION
579	295297		CLEANER, Air
580	69948		CLEANER, Air
581	62465		CLEANER, Air
582	62466		CLAMP, Air Cleaner
583	210744		ELBOW, Intake
584	91458		SCREW
585	92363		SCREW
596	93347		SCREW -(Throttle) (Fuel Pump)
642	221468		COVER, Air Cleaner
643	280001		SUPPORT, Foam Element
644	221466		BASE, Air Cleaner

Not For
Reproduction

Footnotes:

For Connecting Rod with .020" undersize Crankpin Bore-order No. 390304



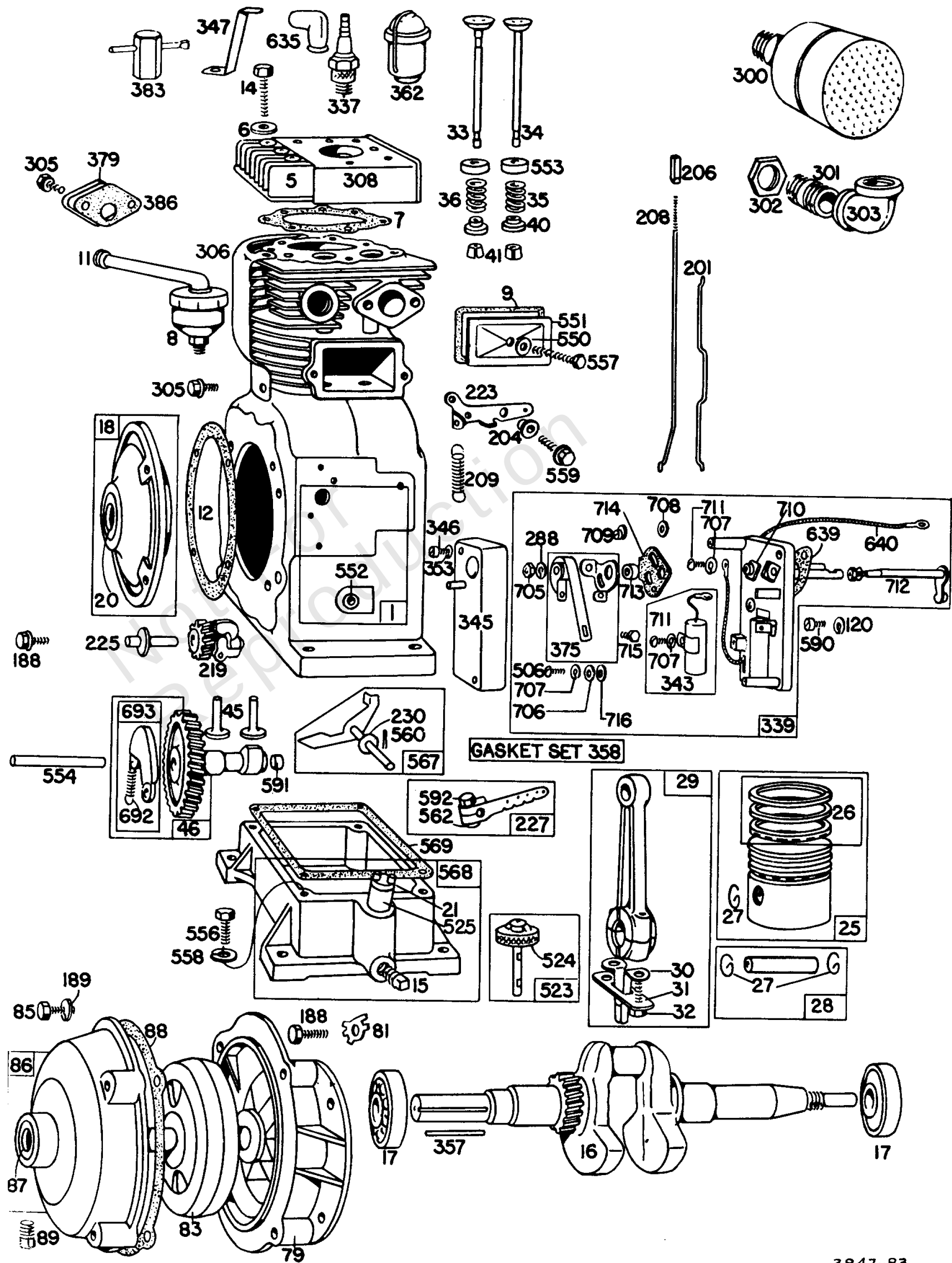
3847-83

Cyl,Muffler,CrnkCse,Gear Cse

REF NO	PART NO	QTY	DESCRIPTION
1	291641		CYLINDER ASSEMBLY
5	210580		HEAD, Cylinder
6	22963		WASHER
8	297704		BREATHER ASSEMBLY
9	66214		GASKET, Rocker Cover -Included in Gasket Set-Part No. 291728
11	67068		TUBE, Breather -(Used with Metal Air Cleaner Pipe)
14	92674		SCREW -(2-7/16)
15	91084		PLUG, Oil Drain -(3/8)
16	260761		CRANKSHAFT
17	291667		BEARING, Ball
18	291665		SUPPORT, Bearing -(Ball Bearing)
20	291675		SEAL, Oil -(Crankcase Cover) Used in Crankcase Covers
21	66768		PLUG, Oil
25	294676		PISTON ASSEMBLY -Used After Code Date 6608151
25	294677		PISTON ASSEMBLY -(.010 Oversize) -Used After Code Date 6608151
25	294678		PISTON ASSEMBLY -(.020 Oversize) -Used After Code Date 6608151
25	294679		PISTON ASSEMBLY -(.030 Oversize) -Used After Code Date 6608151
25	99947		PISTON ASSEMBLY -Used Before Code Date 6608161
25	99948		PISTON ASSEMBLY -(.010 Oversize) -Used Before Code Date 6608161
25	99949		PISTON ASSEMBLY -(.020 Oversize) -Used Before Code Date 6608161
25	99950		PISTON ASSEMBLY -(.030 Oversize) -Used Before Code Date 6608161
26	292100		SET, Ring -Includes: 210076 Ring-Piston, Comp., Top & Center, Standard 61292 Ring-Piston, Oil, Std.
26	292101		SET, Ring -(.010 Oversize) Includes: 210077 Ring-Piston, Comp., Top & Center, .010 O.S. 61335 Ring-Piston, Oil, .010 O.S.
26	292102		SET, Ring -(.020 Oversize) Includes: 210078 Ring-Piston, Comp., Top & Center, .020 O.S. 61336 Ring-Piston, Oil, .030 O.S.

Footnotes:

For Connecting Rod with .020" undersize Crankpin Bore-order No. 390304
For Connecting Rod with .020" undersize Crankpin Bore-order No. 295362
Part No. 69925 and 29103 Piston Pins
Used to Mount Valve Cover



3847-83

Cyl,Muffler,CrnkCse,Gear Cse

REF NO	PART NO	QTY	DESCRIPTION
26	292103		SET, Ring -(.030 Oversize) Includes: 210079 Ring-Piston, Comp., Top & Center, .030 O.S. 61337 Ring-Piston, Oil, .030 O.S.
26	298746		SET, Ring -(Standard)
27	65776		LOCK, Piston Pin -Used Before Code Date 6608161
27	68546		LOCK, Piston Pin -Used After Code Date 6608151
28	29103		PIN, Piston -(.005 Oversize) -Used Before Code Date 6608161
28	294681		PIN, Piston -(.005 Oversize) -Used After Code Date 6608151
28	298401		PIN, Piston -Used After Code Date 6608151
28	69925		PIN, Piston -Used Before Code Date 6608161
29	291647		ROD, Connecting -Used Before Code Date 6608161
29	298400		ROD, Connecting -Used After Code Date 6608151
30	220805		DIPPER, Connecting Rod
31	22946		LOCK, Rod Screw
32	230557		SCREW -(Connecting Rod)
33	23923		VALVE, Intake
34	23922		VALVE, Intake
35	65906		SPRING, Valve -(Intake)
36	65906		SPRING, Valve -(Intake)
40	68293		RETAINER, Valve -(Exhaust)
41	68283		RETAINER, Valve
45	26670		TAPPET, Valve
46	291400		CAMSHAFT
79	291357		CASE, Gear Reduction
81	220790		LOCK, Screw Head
83	291762		SHAFT, Auxiliary Drive
85	91386		SCREW -(2)
86	291354		COVER, Gear
87	298423		SEAL, Oil
88	27328		GASKET, Gear Cover/Housing
89	91488		PLUG -(1/8)
120	92290		WASHER
188	93535		SCREW -(5/16-18 X 3/4)
189	90366		WASHER

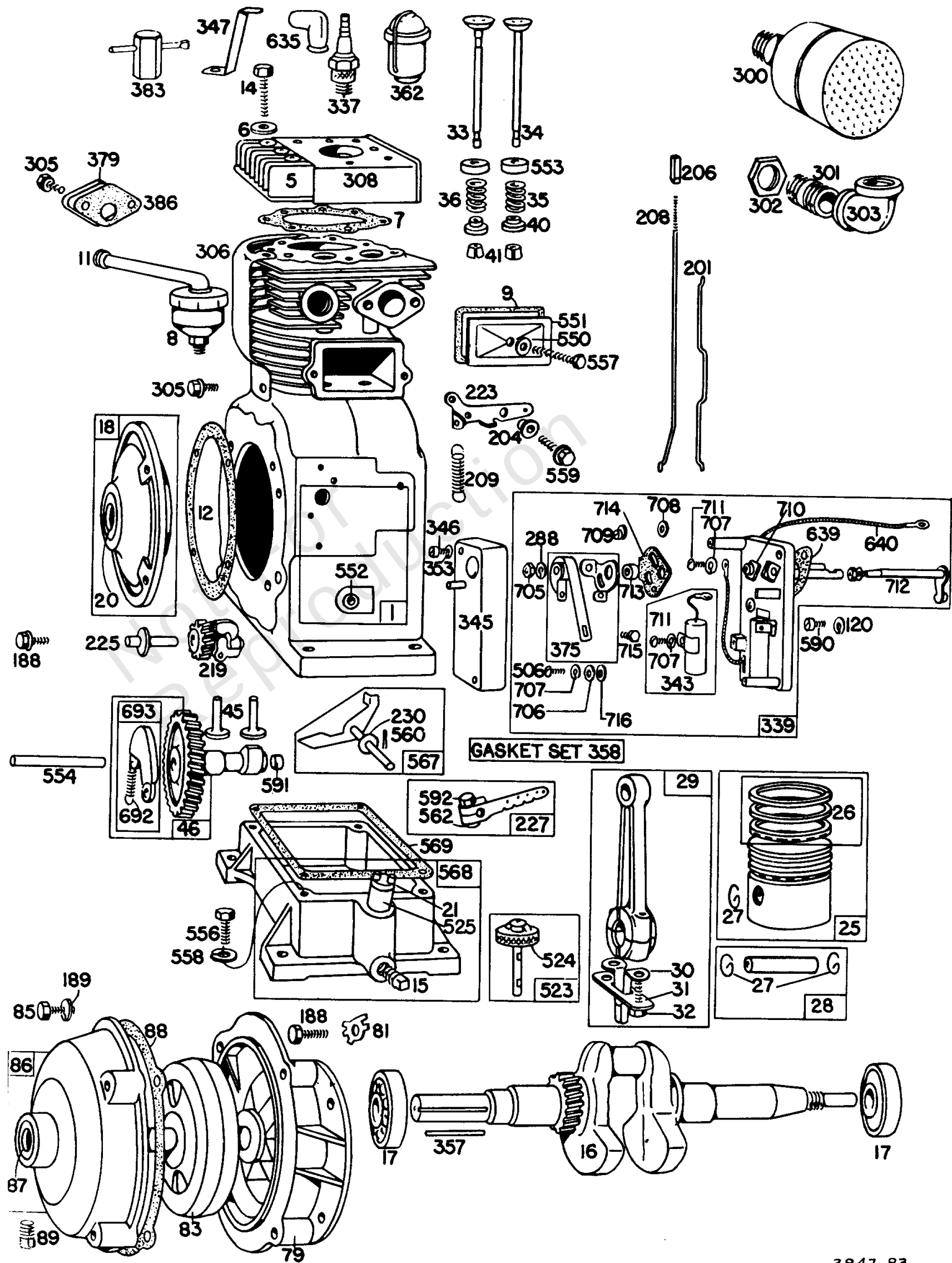
Footnotes:

For Connecting Rod with .020" undersize Crankpin Bore-order No. 390304

For Connecting Rod with .020" undersize Crankpin Bore-order No. 295362

Part No. 69925 and 29103 Piston Pins

Used to Mount Valve Cover



3847-83

Cyl,Muffler,CrnkCse,Gear Cse

REF NO	PART NO	QTY	DESCRIPTION
201	26725		LINK, Throttle
204	23849		SCREW
206	93384		NUT
208	230040		ROD, Governor Control
209	26764		SPRING, Governor
219	291192		GEAR, Governor
223	22814		LEVER, Governor Control
225	291177		SHAFT, Governor Gear
227	291365		LEVER, Governor Control
230	22826		WASHER
288	90362		WASHER -(6 X 3/64 X 1/32)
300	290933		MUFFLER
301	91416		ELBOW, Exhaust -(1 1/2)
302	91310		LOCKNUT -(Muffler)
303	91296		ELBOW, Exhaust -(90 Degree)
305	93158		SCREW -(1/4-20 X 5/8)
306	22951		SHIELD, Cylinder
308	291867		COVER, Cylinder Head
337	29693		PLUG, Spark -Spark Plugs 29693 and 293918 use Ignition Cable Terminal No. 221798
339	291659		BREAKER, Ignition
343	291369		CONDENSER
345	290882		COVER, Breaker
346	90211		SCREW -(Breaker)
347	220197		SWITCH, Stop -(1-1/2 High, 38 Mm. Spark Plugs)
353	92791		WASHER
357	91540		KEY, Drive Pulley -(1/4)
358	291728		GASKET SET, Engine
362	89742		SHIELD, Spark Plug -(With Stop Switch)
375	292021		BREAKER, Ignition
379	22984		COVER, Fuel Pump
383	89838		WRENCH, Spark Plug
386	27314		GASKET, Fuel Bowl
506	90072		SCREW -(8-32 X 5/8)
523	292402		DIPSTICK
524	65938		SEAL, O-Ring -(Dipstick Cap)
525	230470		TUBE, Dipstick
550	22353		WASHER -(Valve Cover) Included in Gasket Set-Part No. 291728

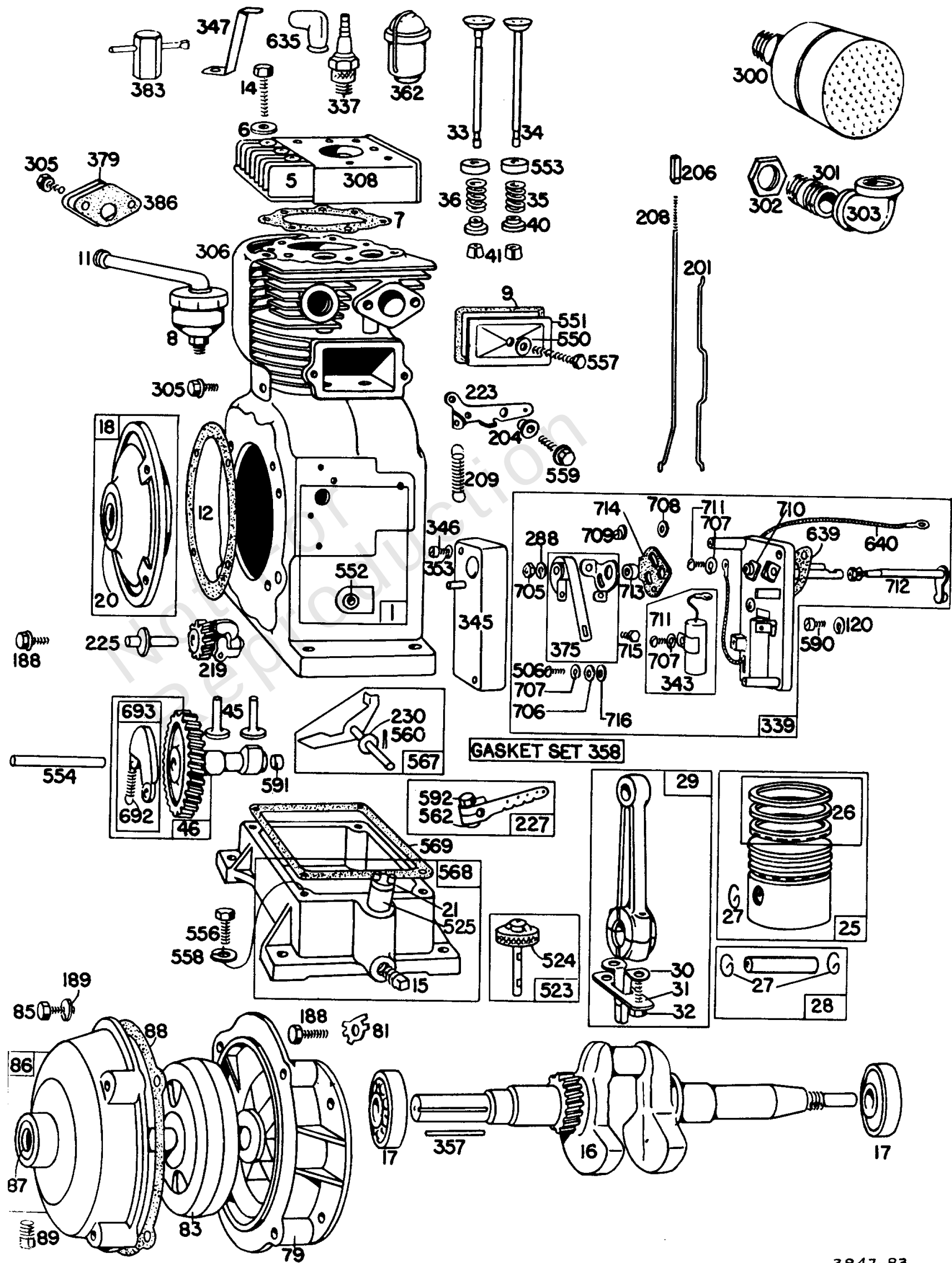
Footnotes:

For Connecting Rod with .020" undersize Crankpin Bore-order No. 390304

For Connecting Rod with .020" undersize Crankpin Bore-order No. 295362

Part No. 69925 and 29103 Piston Pins

Used to Mount Valve Cover



3847-83

Cyl,Muffler,CrnkCse,Gear Cse

REF NO	PART NO	QTY	DESCRIPTION
551	22795		COVER, Valve
552	23837		BUSHING, Governor Crank
553	62222		SEAT, Valve Spring
554	66203		SHAFT, Gear
556	90887		SCREW -(3/8-16 X 1-1/4)
557	90931		SCREW
558	92268		WASHER -(3/8 X 1/8 X 3/32)
559	93294		SCREW -(5/8)
560	91984		PIN, Cotter
562	92613		BOLT -(Governor Lever)
567	291364		CRANK, Governor
568	291404		SUMP, Engine -(Engine Base Furnished by the Equipment Mfr)
569	27351		GASKET, Crankcase -Included in Gasket Set-Part No. 291728
590	92578		SCREW
591	65932		PLUG, Camshaft
592	90356		NUT -(10-24)
635	66538		BOOT, Spark Plug
639	27299		GASKET, Breaker Box
640	290930		WIRE, Stop
692	26719		SPRING, Cam Release
693	291727		COUNTERWEIGHT
705	92581		NUT
706	22787		WASHER
707	90367		WASHER
708	291106		SEAL, Oil
709	23829		ECCENTRIC
710	21802		BUSHING -(Oil Seal)
711	90067		SCREW
712	291658		PLUNGER, Breaker
713	66078		BUSHING -(Breaker)
714	66048		INSULATOR
715	92576		SCREW
716	66068		WASHER -(Fiber)

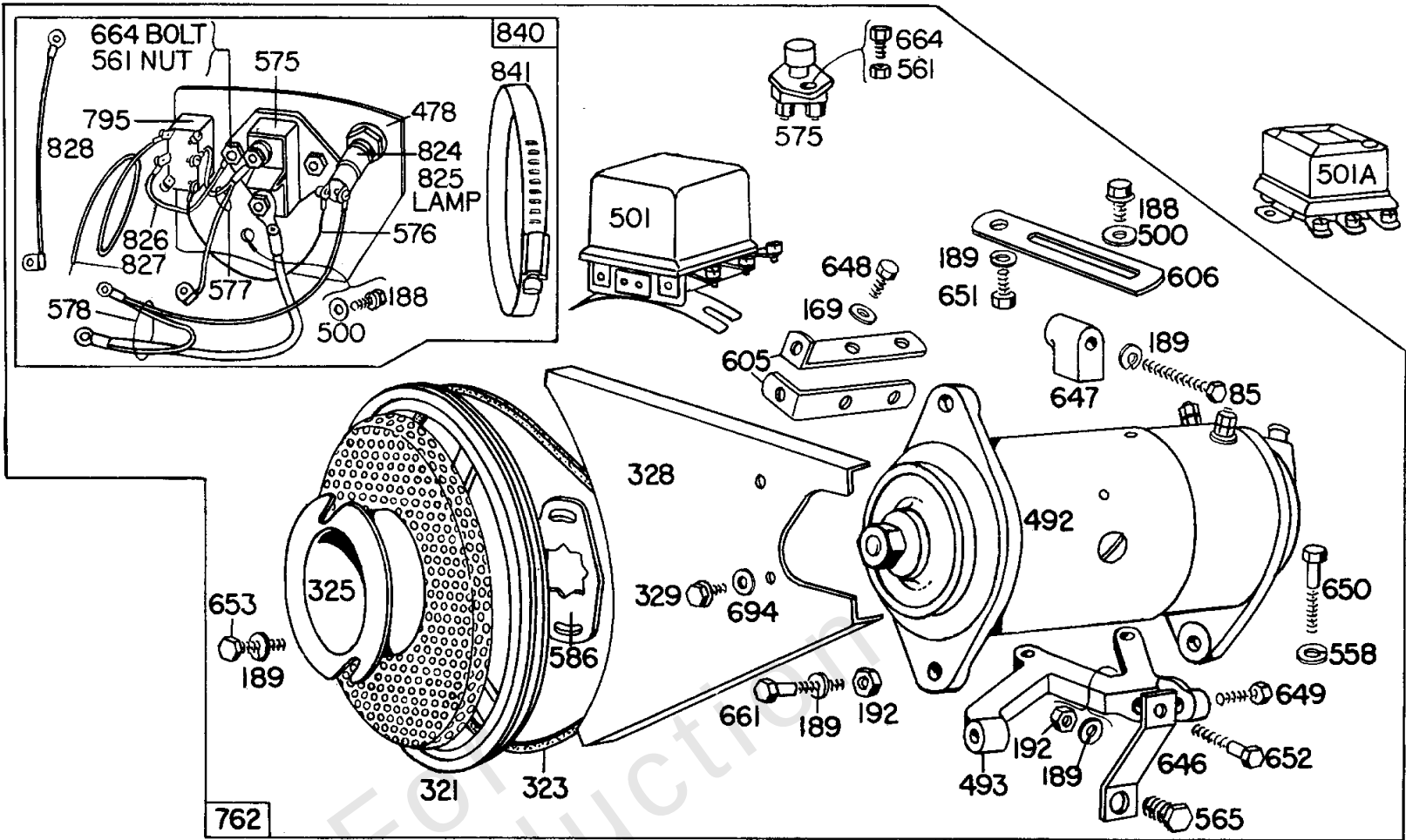
Footnotes:

For Connecting Rod with .020" undersize Crankpin Bore-order No. 390304

For Connecting Rod with .020" undersize Crankpin Bore-order No. 295362

Part No. 69925 and 29103 Piston Pins

Used to Mount Valve Cover

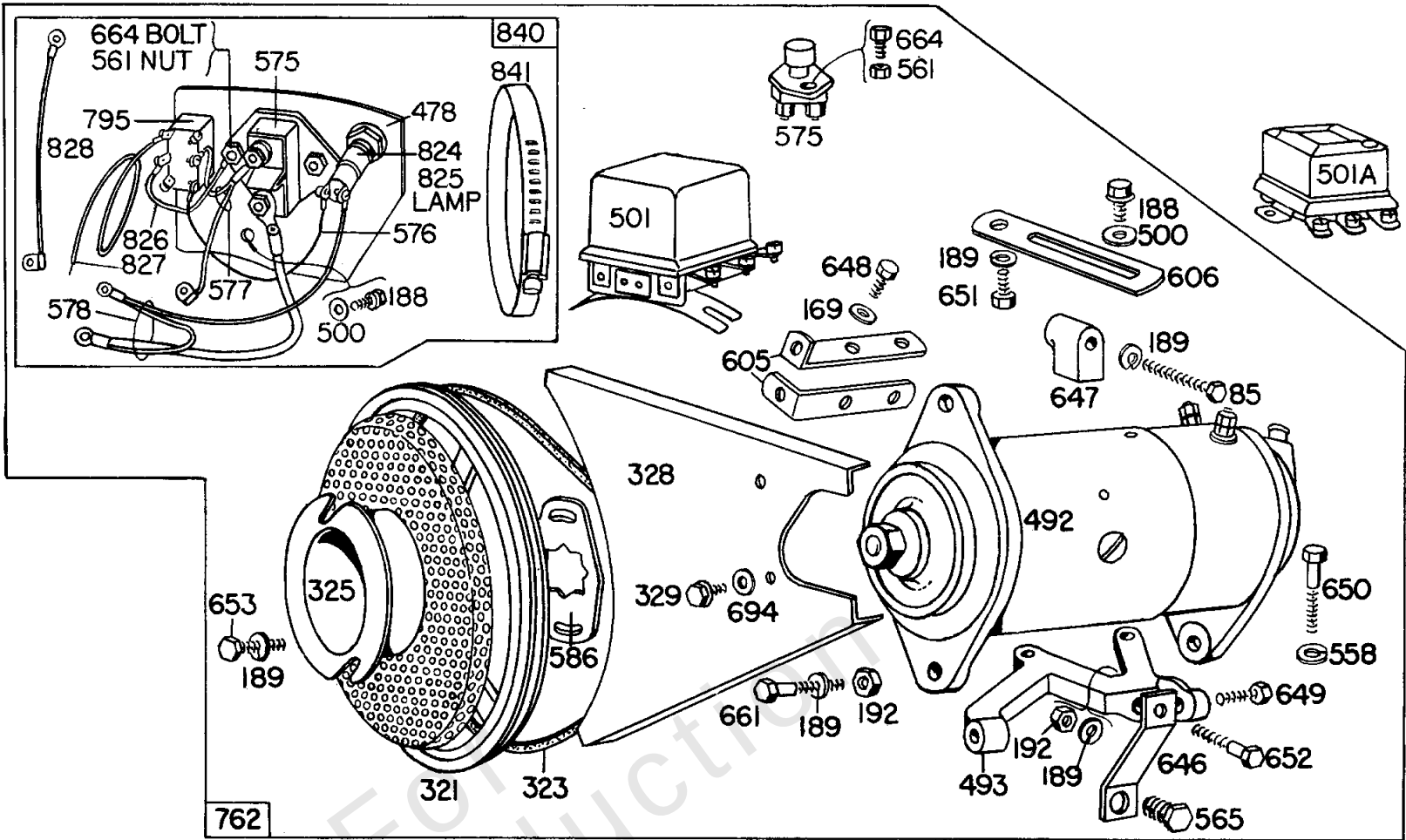


Electric Starter, Starter Control

REF NO	PART NO	QTY	DESCRIPTION
85	91386		SCREW -(2)
169	90832		SCREW -(Blower Housing)
188	93535		SCREW -(5/16-18 X 3/4)
189	90366		WASHER
192	91397		NUT -(5/16-18)
321	211166		PULLEY, Starter
323	67918		BELT, Vee -(Low Position)
325	299308		PULLEY, Rope Starter -(With Screen)
328	221531		GUARD, Belt
329	93158		SCREW -(1/4-20 X 5/8)
478	221745		KIT, Panel
492	297779		MOTOR, Starter -(Delco-Remy #1101864 & Pulley-Delco-Remy #1949358)
493	211169		BRACKET, Starter Motor
500	91325		WASHER
501A	295924		REGULATOR -(Flat Mount, Delco-remy)
501	297196		REGULATOR -(Saddle Mount, Delco-remy)
558	92268		WASHER -(3/8 X 1/8 X 3/32)
561	92278		NUT -(Starting Switch)
565	93142		SCREW
575	299139		SWITCH, Starting
576	298579		WIRE ASSEMBLY -(Ignition Switch to Indicator Lamp)
577	298582		WIRE ASSEMBLY -(Starter Switch to Ign Switch & Bat on Regulator)
578	298583		WIRE ASSEMBLY -(To Generator Term, Regulator & Indicator Light Term)
586	22906		RETAINER
605	297171		BRACKET, Support -(Lower)
606	221442		STRAP, Adjusting
646	221472		BRACKET, Support
647	211170		BRACKET, Support
648	91439		SCREW
649	93546		SCREW -(5/16-18 X 1-1/4)
650	91814		SCREW -(3/8-16 X 2)
651	92034		SCREW -(5/16-18 X 1/2)
652	91162		SCREW -(5/16-18 X 1-1/2)
653	91442		SCREW -(Pulley)

Footnotes:

For Connecting Rod with .020" undersize Crankpin Bore-order No. 390304



Electric Starter, Starter Control

REF NO	PART NO	QTY	DESCRIPTION
661	91203		SCREW -(5/16-18 X 1-3/4)
664	93415		SCREW -(1/4-20 X 3/4)
694	91324		WASHER
762	298865		KIT, Electric Starter -(12 Volt)
795	298590		SWITCH, Toggle
824	298586		LIGHT, Indicator
825	67245		LIGHT, Indicator -(#1893 T3-1/4 Bulb, Miniature Bayonet Base, 12V)
826	298580		WIRE ASSEMBLY -(Ignition Switch To Ground)
827	298581		WIRE, Stop
828	298578		WIRE ASSEMBLY
840	298561		KIT, Panel -For Complete Starter-Generator and Panel-Order No. 297800
841	297197		CLAMP

Footnotes:

For Connecting Rod with .020" undersize Crankpin Bore-order No. 390304

Replacement Engine - US & Canada

REF NO	PART NO	QTY	DESCRIPTION
	-----		No engine replacement. Repair engine with individual parts.
	-----		Top No-Load Speed: 2900 -Trim: ALL

Not For Reproduction

