

FORM MS-8160

1/94

Model Series

130900 to 130999

Non-Compliance

TYPE NUMBERS

1014 through 1261,

4001 through 4004,

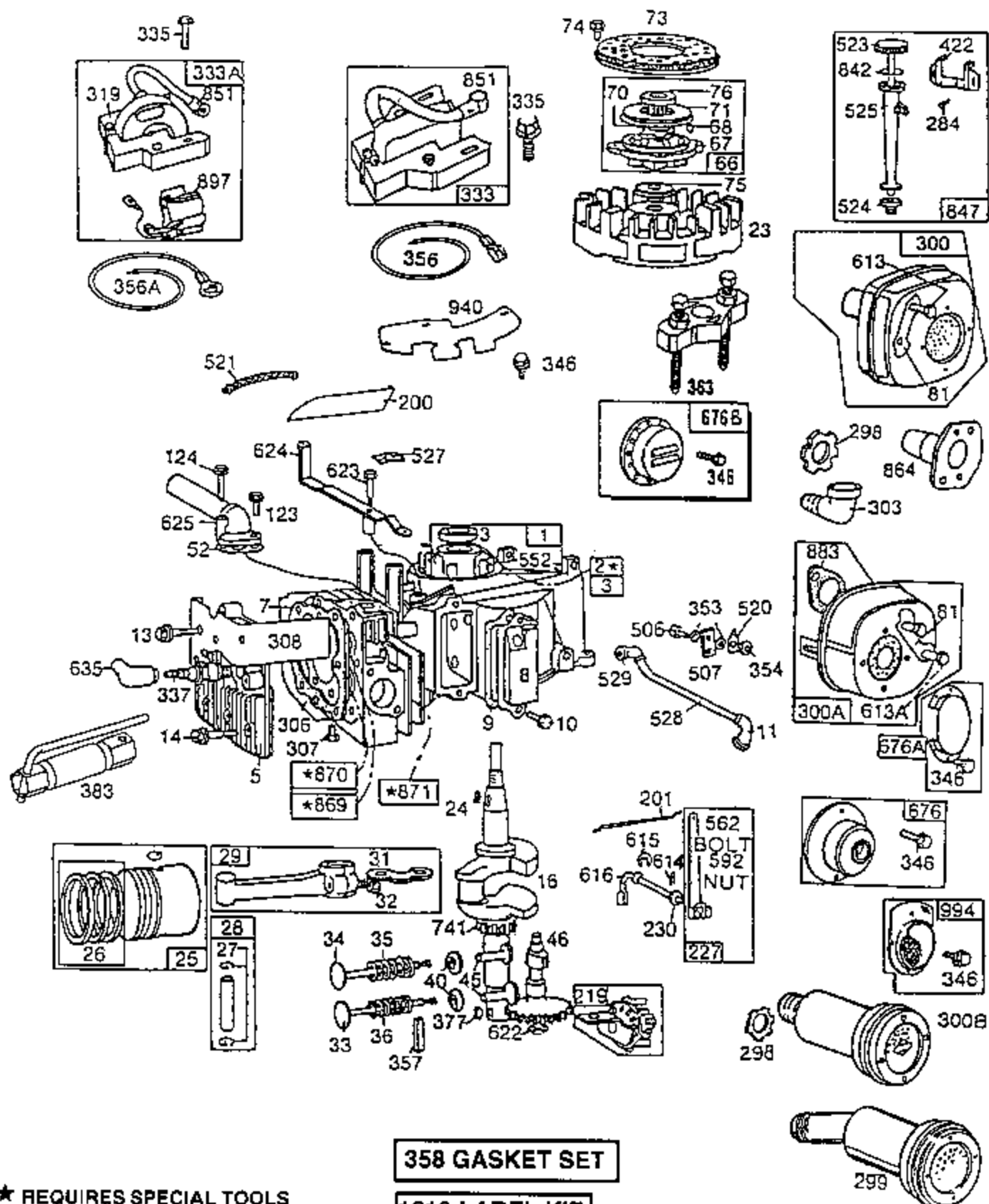
4015 through 4025.

Compliance

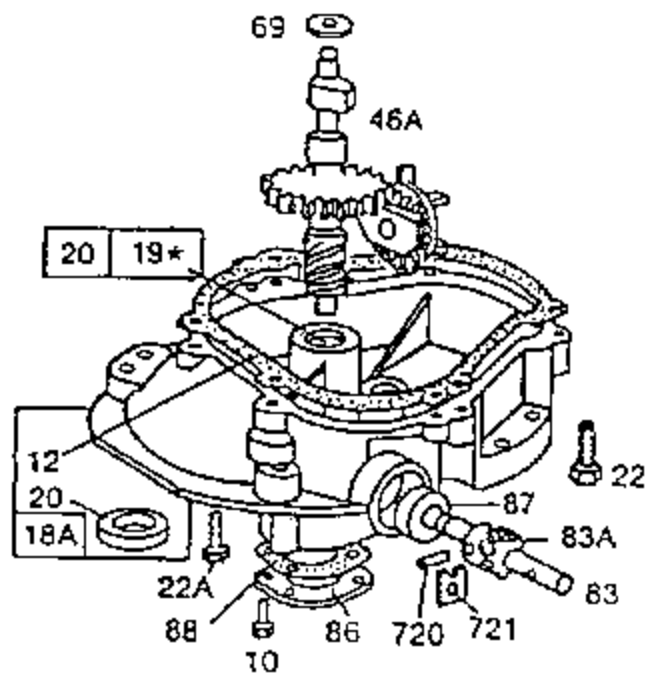
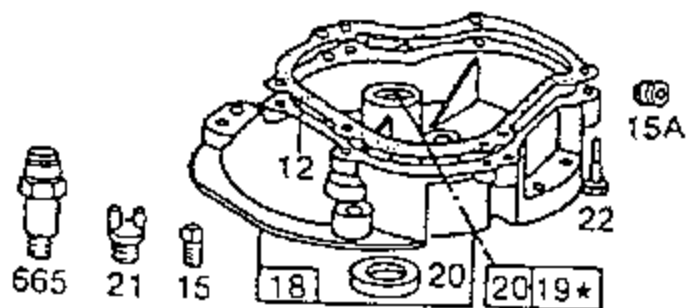
TYPE NUMBERS

3100,

3120 through 3129

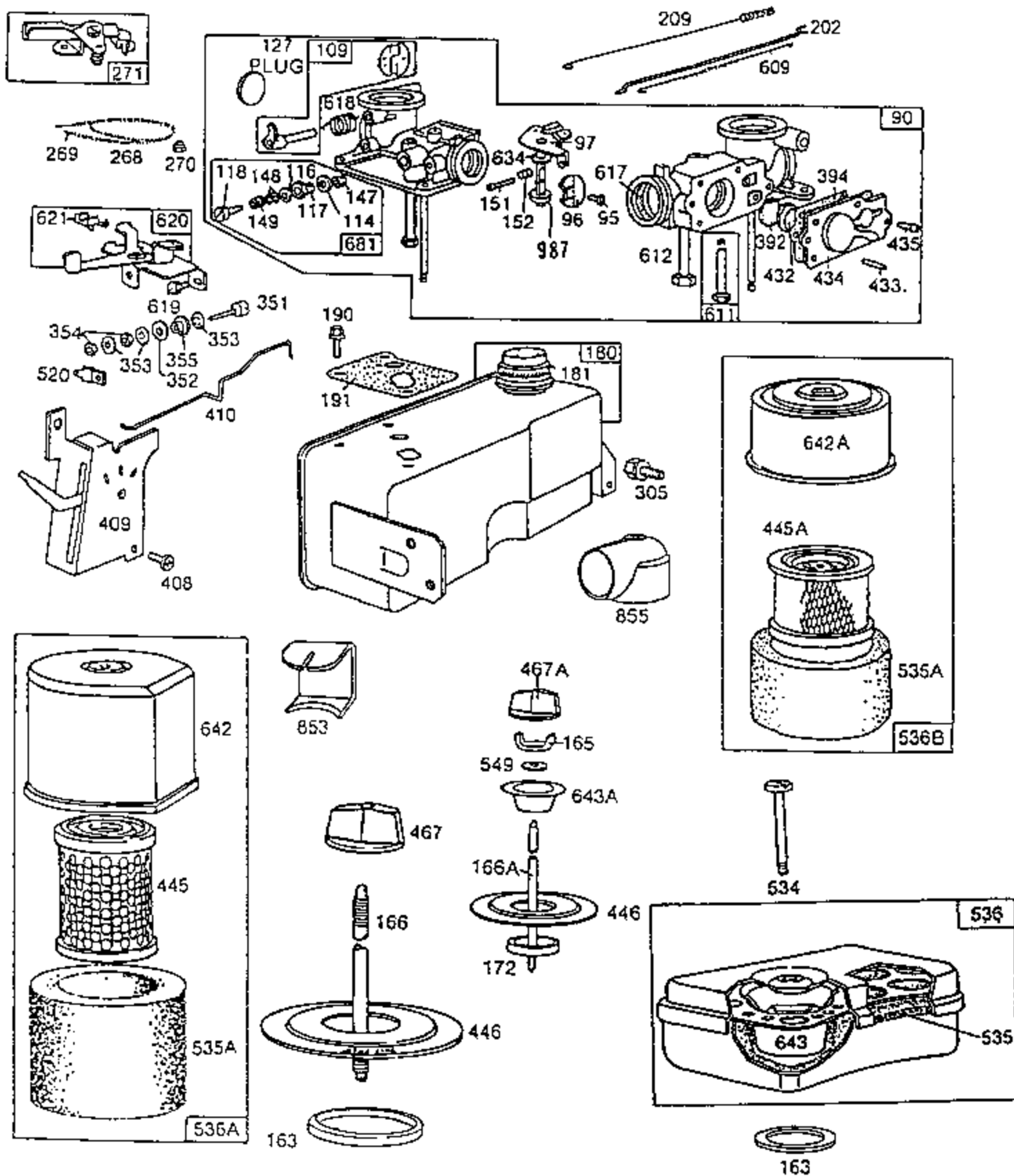


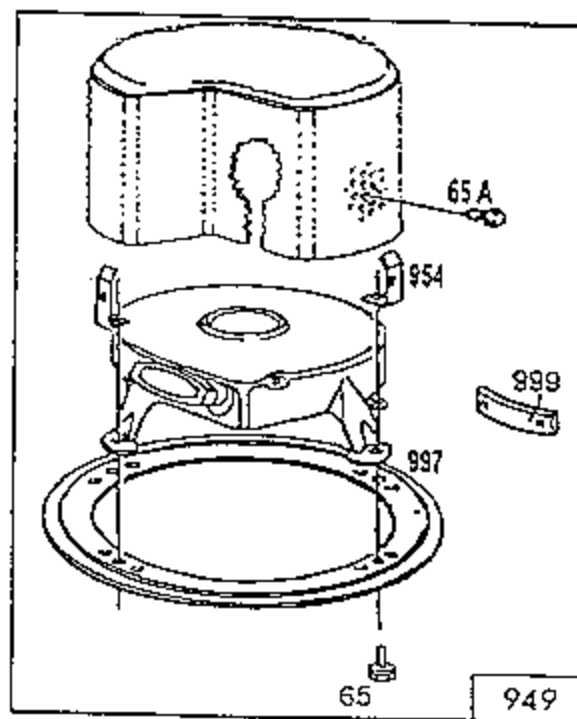
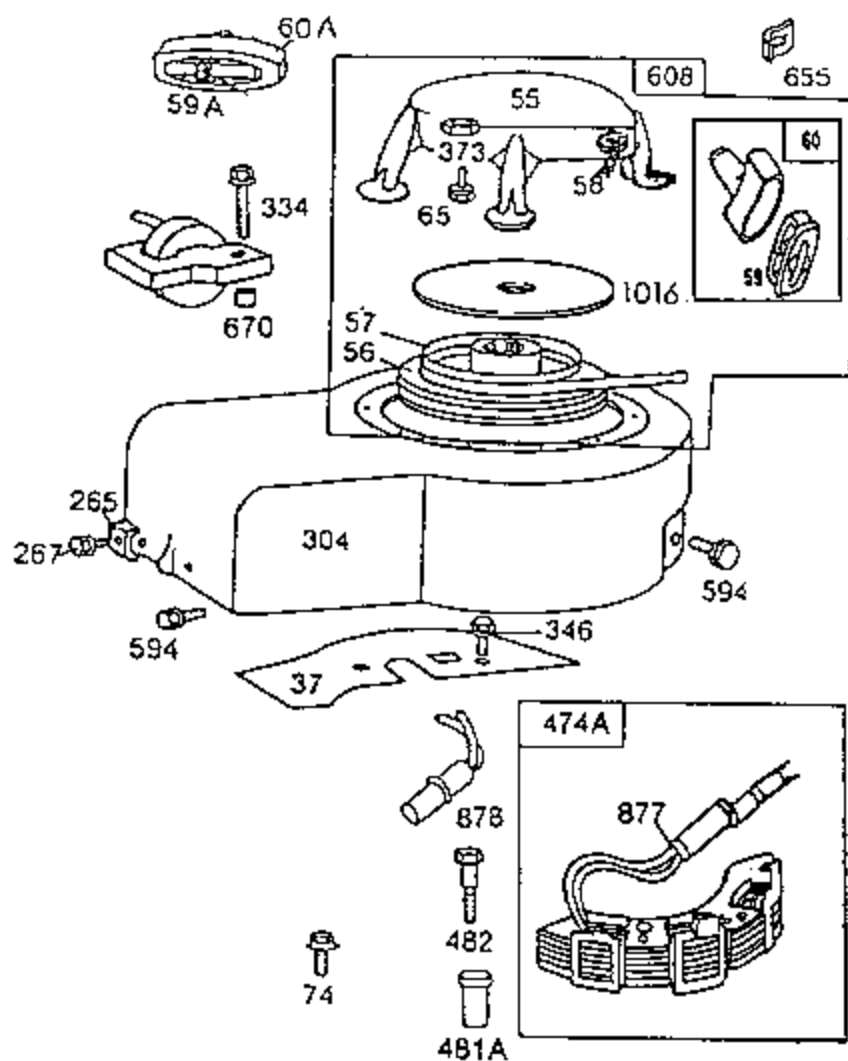
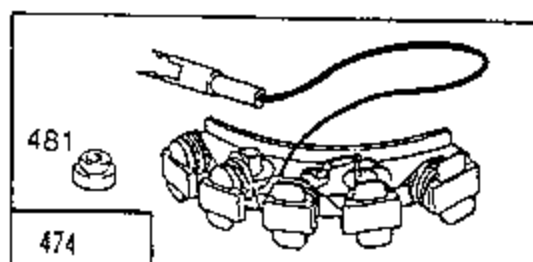
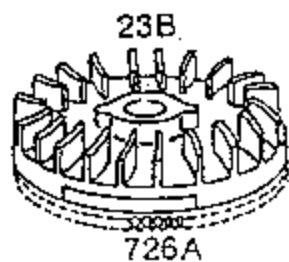
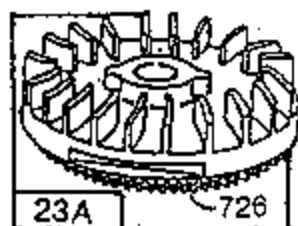
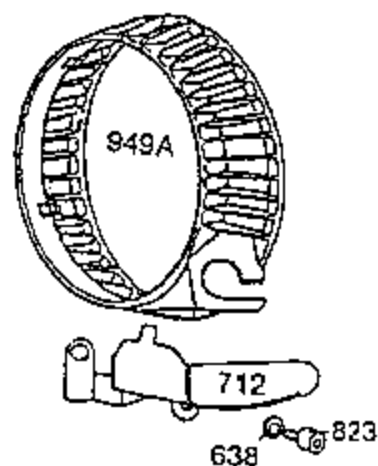
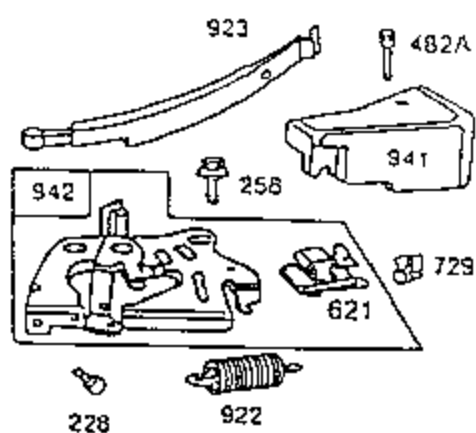
★ REQUIRES SPECIAL TOOLS
TO INSTALL. SEE REPAIR
INSTRUCTION MANUAL.

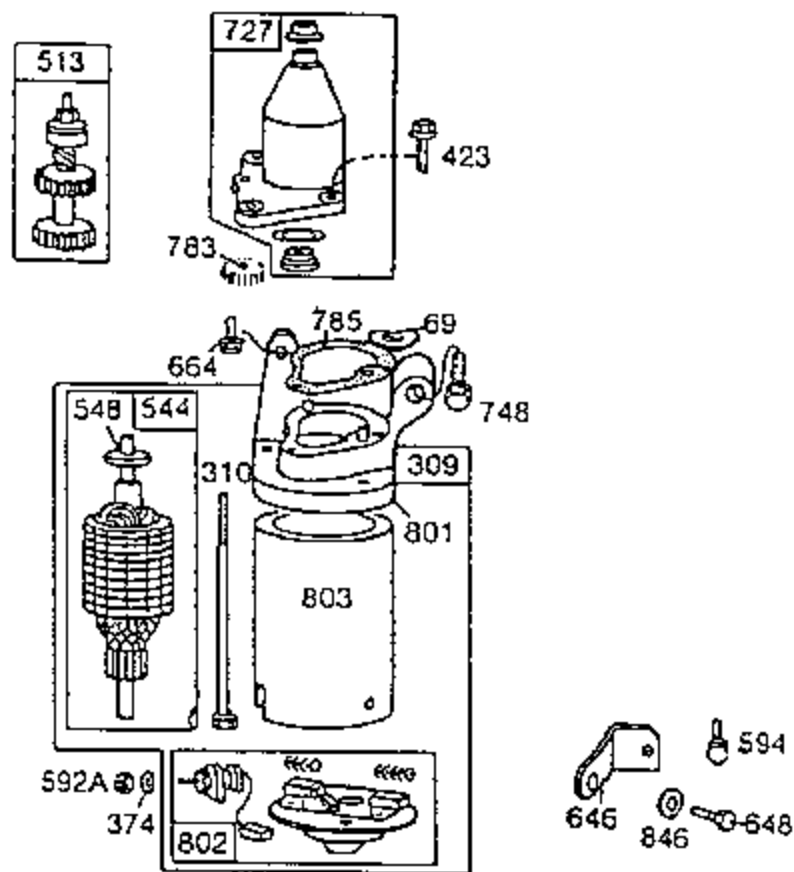


★ REQUIRES SPECIAL TOOLS
TO INSTALL. SEE REPAIR
INSTRUCTION MANUAL.

121 CARBURETOR KIT







Reference Number	309	544	802	803
Starter Motor Mfr.	Motor	Armature Assembly	End Cap Ass'y, Commutator	Housing Assembly
American Bosch				
12V	390232*	390467	390465	390468

*Uses #92813 Lockwasher and #231082 Hex Nut.

Ref Number	Ref. Number	Flywheel Ring Gear Material
513	727	
Drive Assembly	Drive Housing	
390581	390317	Steel
397645**	394416	Aluminum

** Includes 280311 Starter Cover.

Reference Numbers								
69	310	423	548	664	748	783	785	801
Washer 93676	Motor Bolt 93648	Sem. Screw 93654	Washer 93649	Mtg. Screw 93358	Mtg. Screw 93534	Pinion 230972	Gasket 270677	Mtg. Head 390318

1	396006	Cylinder Assembly ----- Note ----- 399277 Cylinder Assy. (Band Brake) Used on Type No(s). 3100, 3120, 3122, 3123, 3124, 3125, 3126, 3127, 3128, 3129.
2	297565	Bushing - Cylinder ----- Note ----- Requires Special Tools For Installation.
3	*299819	Seal - Oil
5	213958	Head - Cylinder
7	*272157	Gasket - Cylinder Head
8	297261	Breather - Valve Chamber
9	*27549	Gasket - Valve Cover
10	94621	Screw - Breather and P. T.O. Gear Sump Cover Mtg. Sem (Ref. No. 86)
11	67738	Grommet - Breather
12	*270069	Gasket - Crankcase (.015" Thick, Standard) *270122 Gasket - Crankcase (.005" Thick) *270123 Gasket - Crankcase (.009" Thick)
13	94221	Screw - Cylinder Head (2 - 3/32" Long) ----- Note ----- 93583 Stud - Cyl. Head 22963 Washer Used on Type No(s). 1014, 1162, 1177, 1226.
14	93369	Screw - Cylinder Head (2 - 15/32" Long) ----- Note ----- 93583 Stud - Cyl. Head 22963 Washer Used on Type No(s). 1162, 1177.
15	91084	Plug - Oil Drain
15A	94613	Plug - Oil Drain (Hexagon Socket Head)
16	492091	Crankshaft ----- Note ----- To Replace Crankshaft Gear Pin - Order Part No. 230978. 261098 Crankshaft Used on Type No(s). 1025, 1027. 397109 Crankshaft Used on Type No(s). 1015, 1130, 1131, 1133, 1136, 1138, 1140, 1148, 1152, 1158, 1160, 1167, 1169, 1170, 1174, 1176, 1178, 1195,

1199, 1201, 1206, 1210,
1213, 1223, 1230, 1235,
1237, 1238, 1242, 1244,
1253, 1257, 3120, 3124,
3125, 3127,
4003, 4019.

397115 Crankshaft

Used on Type No(s).

1198, 1202, 1204, 1205,
1208, 1209, 1214, 1215,
1216, 1217, 1219, 1222,
1227, 1229, 1231, 1233,
1243, 1247,
1255, 1256, 3122, 3123,
3126.

397116 Crankshaft

Used on Type No(s).

1039, 1127, 1137,
1191.

397117 Crankshaft

Used on Type No(s).

4025.

397119 Crankshaft

Used on Type No(s).

1143, 1220, 1234, 1249.

397121 Crankshaft

Used on Type No(s).

1018, 1162, 1226.

397481 Crankshaft

Used on Type No(s).

1200.

490043 Crankshaft

Used on Type No(s).

1224.

492092 Crankshaft

Used on Type No(s).

1156.

493410 Crankshaft

Used on Type No(s).

1017, 1134, 1141, 1144,
1147, 1150, 1151, 1157,
1163, 1164, 1172, 1173,
1177, 1179, 1180, 1181,
1182, 1183,
1185, 1186, 1187, 1188,
1192, 1194, 1196, 1197,
1198, 1202, 1204, 1205,
1208, 1209, 1214, 1215,
1216, 1217,
1219, 1221, 1222, 1227,
1229, 1231, 1233, 1243,
1247, 1259, 1261, 3122,
3123, 3126, 3128, 3129,
4017.

18

297587

Base - Engine

----- Note -----

298211 Base - Engine

Used on Type No(s).

1040, 1150, 1208, 1219,
3123, 3125.

390575 Base - Engine

Used on Type No(s).

1025, 1027, 1039, 1137,
1141, 1143, 1166, 1191,
1220, 1233, 1234, 1249,
4025.

18A	399198	Base - Engine Used on Model Series 130982.
19	297604	Bushing - Oil Sump ----- Note ----- Requires Special Tools For Installation.
20	*391485	Seal - Oil ----- Note ----- 391484 Seal - Oil (For Aux. Drive Shaft) Used on Type No(s). 1040, 1050, 1150, 1208, 1219, 1244, 1259, 3123.
21	66768	Plug - Oil Filler
22	94607	Screw - Mtg. Sem
22A	93415	Screw - Sem (One Used in Auxiliary Drive Gear Sump - Used on Model Series 130982.
23	297229	Flywheel - Magneto ----- Note ----- 399673 Flywheel - Magneto Used on Type No(s). 3100, 3120, 3122, 3123, 3124, 3125, 3126, 3127, 3128, 3129.
23A	493456	Flywheel - Magneto
23B	394424	Flywheel - Magneto
24	222698	Key - Flywheel
25	298904	Piston Assy. (Standard) 298905 Piston Assy. (.010" O.S.) 298906 Piston Assy. (.020" O.S.) 298907 Piston Assy. (.030" O.S.)
26	298982	Ring Set - Piston (Standard) 299742 Ring Set - Piston (Std., Chrome) 298983 Ring Set - Piston (.010" O.S.) 298984 Ring Set - Piston (.020" O.S.) 298985 Ring Set - Piston (.030" O.S.)
27	26026	Lock - Piston Pin
28	298909	Pin Assy. - Piston (Standard) 298908 Pin Assy. - Piston (.005" O.S.)
29	299429	Rod Assy. - Connecting (Standard) 390459 Rod Assy. - Connecting (.020" Undersize)
31	221876	Lock - Conn. Rod Screw
32	92296	Screw - Connecting Rod

33	211119	Valve - Exhaust ----- Note ----- 260860 Valve - Exhaust Used on Type No(s). 1143.
34	261044	Valve - Intake
35	260552	Spring - Intake Valve
36	26478	Spring - Exhaust Valve ----- Note ----- 26826 Spring - Exhaust Valve Used on Type No(s). 1143.
37	222443	Guard - Flywheel ----- Note ----- 222579 Guard - Flywheel (Used on Engines With Electric Starter)
40	93312	Retainer - Valve Spring ----- Note ----- 292259 Rotocap - Exhaust Valve 230126 Pin - Exhaust Valve Rotocap Retainer 230127 Retainer - Exhaust Valve Rotocap Used on Type No(s). 1143.
45	260642	Tappet - Valve
46	212733	Gear - Cam ----- Note ----- 211284 Gear - Cam Used on Type No(s). 1040, 1150, 1208, 1219, 3123.
46A	398823	Gear - Cam (Clockwise) ----- Note ----- 399317 Gear - Cam (Counterclockwise) Used on Type No(s). 1050, 1223, 1225, 1228, 1230, 1242, 1244, 1248, 1250, 1252, 1253, 3125.
52	*270070	Gasket - Intake Elbow Mounting
55	299431	Housing - Rewind Starter
56	295871	Pulley - Rewind Starter
57	490179	Spring - Rewind Starter
58	66884	Rope - Rewind Starter (63" Long) ----- Note ----- If Longer Rope is Required, Order Part and Cut to Required Length. 66894 Rope - Rewind Starter
59	490653	Insert - Starter Handle
59A	230228	Pin - Starter Rope

60	490652	Handle - Rewind Starter
60A	66728	Grip - Starter Rope
65	94128	Screw - Sem
65A	94018	Screw - Hex. Head
66	399671	Clutch Assembly - Rewind Starter
67	394897	Housing - Starter Clutch
68	63770	Ball - Clutch
69	68938	Washer - Thrust
70	298799	Ratchet - Starter Clutch
71	394506	Washer - Clutch Retainer
		----- Note ----- 222277 Cover - Hsg. Used on Type No(s). 1027, 1039.
73	221923	Screen - Rewind Starter
74	93490	Screw - Sem
		----- Note ----- 93808 Screw - Sem Used on Type No(s). 1027, 1039.
75	224061	Washer - Spring
76	68238	Washer - Sealing (Not Used With Rubber Coated Clutch)
81	222263	Lock - Muffler Screw
83	231430	Shaft - Drive
83A	231278	Gear - Drive
		----- Note ----- 231279 Gear - Drive Used on Type No(s). 1050, 1223, 1225, 1228, 1230, 1242, 1244, 1248, 1250, 1252, 1253, 3125.
86	223577	Cover - Sump
87	391484	Seal - Oil
88	*271814	Gasket - Sump Cover
90	396748	Carburetor Assembly (Used After Code Date 83110700).
		----- Note ----- 299448 Carb. Assy. (Used Before Code Date 83110800).
95	93499	Screw - Sem
96	211237	Valve - Throttle
97	299692	Shaft - Throttle
109	396753	Choke Assembly (Used After Code Date 83110700).
		----- Note ----- 390076 Choke Assy. (Used Before Code Date 83110800).
114	·66594	Gasket - Valve
116	·65978	Packing - Needle Valve
117	·230590	Nut - Needle Valve
118	·23433	Valve - Needle
121	494625	Carburetor Kit
123	93512	Screw - Sem
124	93367	Screw - Sem

127	22831	Plug - Welch
147	.230591	Seat - Needle Valve
148	.22235	Washer - Needle Valve
149	.26336	Spring - Needle Valve
151	93527	Screw - Round Head
152	260575	Spring - Governor
163	*.271139	Gasket - Air Cleaner
165	93856	Nut - Wing
166	231332	Stud - Air Cleaner
166A	231175	Stud - Air Cleaner
172	271077	Gasket - Air Cleaner
180	297257	Tank Assembly - Fuel
181	394818	Cap - Fuel Tank
		----- Note -----
		396855 Cap - Fuel Tank
		Used on Type No(s).
		1134.
190	93440	Screw - Fuel Tank Mtg.
191	*.270073	Gasket - Fuel Tank Mtg.
200	223886	Guide - Air
201	260649	Link - Governor
202	260654	Link - Throttle
209	260711	Spring - Governor
		----- Note -----
		260703 Spring - Gov.
		Used on Type No(s).
		1014, 1015, 1016, 1017,
		1025, 1027, 1039, 1040,
		1050, 1110, 1115, 1116,
		1127, 1130, 1133, 1134,
		1135, 1137,
		1140, 1141, 1142, 1145,
		1146, 1151, 1153, 1154,
		1156, 1157, 1161, 1163,
		1164, 1165, 1168, 1170,
		1171, 1174,
		1176, 1180, 1182, 1185,
		1186, 1187, 1189, 1192,
		1193, 1194, 1195, 1201,
		1202, 1203, 1204, 1205,
		1206, 1207,
		1208, 1209, 1210, 1212,
		1213, 1219, 1225, 1227,
		1228, 1230, 1235, 1236,
		1239, 1241, 1242, 1243,
		1247, 1252,
		1253, 1257, 1259, 1260,
		3100, 3122, 3123, 3126,
		3128, 3129, 4001, 4002,
		4003, 4004, 4015, 4016,
		4017, 4019,
		4025.
		261047 Spring - Gov.
		1147, 1148, 1149, 1150,
		1158, 1159, 1162, 1178,
		1179, 1181, 1184, 1188,
		1198, 1200, 1214, 1216,
		1226, 1229,
		1244, 1249, 1250, 1254.
219	297249	Governor and Slinger
227	391967	Lever Assy. - Governor
228	93758	Screw - Hex. Hd.
230	222450	Washer - Gov. Crank
258	94018	Screw - Sem
		(Bracket to Cylinder)
265	221535	Clamp - Casing

(Used After Code Date
92072600).

----- Note -----

22372 Clamp - Casing
(Used Before Code Date
92072700).

267 93469 Screw - Clamp Mtg.
268 66986 Casing - Control Wire
(48" Long)

----- Note -----

If Longer Casing is
Needed, Specify Length
in Inches; If a
Shorter Casing is
Needed, Order Part and
Cut to
Required Length.

269 26099 Wire - Control
(54" Long)

----- Note -----

If Longer Wire is
Needed, Specify Length
in Inches; if Shorter
Wire is Needed, Order
Part and Cut to
Required
Length.

270 63426 Locknut - Control
Wire Casing

271 290568 Lever Assy. - Control
284 93410 Screw - Clamp Mtg.

----- Note -----

94186 Screw - Clamp
Mounting
Used on Type No(s).
1228, 1230, 1236, 1242,
1244, 1248, 1253.

298 261409 Locknut - Muffler

299 393368 Muffler - Exhaust

300 393615 Muffler - Exhaust
(Lo - Tone)

300A 390918 Muffler - Exhaust

----- Note -----

492940 Guard - Muffler
Use(s):

93873 Screw - Sem
(Guard to Cyl. Hd.)

94186 Screw - Hex. Hd.
(Guard to Muffler)

222289 Washer
Used on Type No(s).

1164, 1184, 1247,
1248.

300B 393010 Muffler - Exhaust
(Round Lo - Tone)

303 91464 Elbow - Muffler

304 490192 Housing - Blower

----- Note -----

223836 Housing -
Blower

Used on Type No(s).
3100, 3120, 3122, 3123,

3124, 3125, 3126, 3127,
3128, 3129.

394918 Housing -
Blower

Used on Type No(s).
1025, 1027, 1039, 1127,
1137, 1143,
1191, 1220, 1234, 4025.

305	94786	Screw - Sem
306	221484	Shield - Cylinder
307	93490	Screw - Sem
		(Used After Code Date 87020800).
		----- Note -----
		93042 Screw - Sem
		(Used Before Code Date 87020900).
308	221452	Cover - Cylinder Head
309		Motor - Starting
		See Chart on Illustrated Pages.
319	395490	Armature Assembly (Less Trigger Coil)
333	397358	Armature - Magneto
333A	397358	Armature Group
334	93613	Screw - Armature Mtg.
335	93414	Screw - Armature Mtg.
337	492167	Plug - Spark

(1 - 7/8" High, 48 mm)
----- Note -----
293918 Plug - Spark
(Resistor Type)
(1 - 1/2" High, 38 mm)
298809 Plug - Spark
(1 - 1/2" High, 38 mm)
802592 Plug - Spark
(Resistor Type)
(1 - 7/8" High, 48 mm)

346	93705	Screw - Hex. Hd.
351	91920	Screw - Machine, Fillister Hd.
352	66068	Washer - Insulating
353	92791	Washer - Lock
354	90576	Nut - Hex.
355	66554	Collar - Insulating
356	398808	Wire - Ground

----- Note -----
396585 Wire - Ground
Used With Ref. 333A
Armature
Used on Type No(s).
1014, 1015, 1016, 1017,
1135, 1137, 1183, 1197,
1199, 1203, 1204.

357	91540	Key - Pulley
358	297616	Gasket Set
363	19069	Flywheel Puller
373	92987	Nut - Hex.
374	92813	Washer - Lock
377	93065	Key - Woodruff
383	89838	Wrench - Spark Plug
392	260455	Spring - Diaphragm
394	270026	Diaphragm
408	93537	Screw - Sem
409	299509	Housing - Speed Control
410	260948	Link - Speed Control
422	222576	Clamp - Oil Filler Tube
432	221377	Cap - Spring

433	93265	Pin - Diaphragm Cover
434	210959	Cover - Diaphragm
435	93141	Screw - Diaphragm Cover
445	396424	Cartridge - Air Cleaner
445A	392308	Cartridge - Air Cleaner
446	222844	Base - Air Cleaner
467	212706	Knob - Air Cleaner
467A	212293	Knob - Air Cleaner
474	494254	Stator Assy. - Alternator (Used After Code Date 91041400).
474A	494254	Stator Assembly - Alternator (Used Before Code Date 91041500).
481	231767	Spacer - Alternator (Used After Code Date 91041400).
481A	230970	Bushing - Stator (Used Before Code Date 91041500).
482	93639	Screw - Alternator Armature Mounting
482A	93621	Screw - Sem
506	90200	Screw - Fillister Hd.
507	66895	Insulator
520	93722	Terminal - Spade
521	298529	Shielding - Ignition Cable
523	391840	Cap With Dipstick
524	68838	Seal - Oil Filler Tube to Sump
525	280133	Tube - Oil Filler to Sump
527	93376	Clip - Breather Pipe
528	230717	Tube - Breather
529	67608	Grommet - Breather Tube
534	94071	Screw - Air Cleaner (Used After Code Date 83110700). ----- Note ----- 93374 Screw - Air Cleaner (Used Before Code Date 83110800).
535	270447	Element - Air Cleaner
535A	271466	Element - Air Cleaner
536	397182	Cleaner Assembly - Air (Used After Code Date 83110700). ----- Note ----- 299447 Cleaner Assembly - Air (Used Before Code Date 83110800).
536A	396397	Cleaner Assy. - Air
536B	392368	Cleaner Assy. - Air ----- Note ----- For Dual Element Air Cleaner Kit - Order Part No.

		393018.
549	271118	Washer - Air Cleaner
552	231078	Bushing - Gov. Shaft
562	92613	Bolt - Governor Lever
592	231082	Nut - Hex.
592A	90356	Nut - Hex.
594	93559	Screw - Hex. Head
608	390463	Starter Assy. - Rewind
609	260029	Spring - Throttle Link
611	391813	Fuel Pipe and Clip Assembly
612	296811	Pipe - Fuel (Plastic)
613	93935	Screw - Hex. Hd.
613A	94042	Screw - Muffler Mtg. (Used After Code Date 82091400).
		----- Note -----
		93704 Screw - Muffler Mounting (Used Before Code Date 82091300).
614	93306	Cotter - Pin
615	93307	Retainer - E - Ring
616	231076	Crank - Governor
617	280393	Seal - Intake Elbow Tube
618	260648	Spring - Choke Return
619	93380	Screw - Control Plate Mounting
620	297548	Plate - Control ----- Note ----- 297457 Plate - Control Used on Type No(s). 1015, 1016, 1017, 1025, 1027, 1040, 1050, 1110, 1116, 1135, 1137, 1151, 1160, 1163, 1164, 1168, 1174, 1183, 1185, 1190, 1191, 1193, 1194, 1196, 1201, 1203, 1216, 1227, 1235, 1241, 1243, 1247, 1260, 4001, 4016, 4017, 4019, 4025. 391091 Plate - Control Used on Type No(s). 1014, 1039, 1161, 1165, 1166, 1177, 1200, 1224, 3100, 3120, 3122, 3123, 3124, 3125, 3126, 3127, 3128, 3129.
621	396847	Switch - Stop (Used After Code Date 85061000). ----- Note ----- 297472 Switch - Stop (Used Before Code Date 85061100).
622	260676	Washer - Spring (Used Between Cam Gear Boss and Oil Slinger Bracket)
623	231520	Screw - Shoulder (Used After Code Date 87020500). ----- Note -----

		93838 Screw - Shoulder (Used Before Code Date 87020600).
624	297252	Lever - Linkage
625	297254	Elbow and Tube - Intake
634	271853	Washer - Throttle Shaft (Foam) ----- Note ----- 270167 Washer - Throttle Shaft (Felt)
635	66538	Elbow - Spark
638	93713	Washer - Lock
642	223306	Cover - Air Cleaner
642A	222626	Cover - Air Cleaner
643	280374	Cup - Air Cleaner
643A	222845	Cup - Air Cleaner
646	222162	Bracket - Starter Motor
648	91468	Screw - Cap, Hex. Hd.
655	222598	Anchor - Spring
665	296768	Oil Minder
670	261065	Spacer - Armature
676	395700	Deflector - Exhaust (Direct Outlet)
676A	393757	Deflector - Exhaust (Side Outlet)
676B	393758	Deflector - Exhaust (Louvered)
681	299060	Needle Valve Kit
712	223141	Guard - Ring Gear
720	93474	Pin - Gear to Shaft
721	221779	Stop - Drive Shaft
726	494548	Gear - Ring (Includes Mtg. Screws)
726A	397644	Ring Gear - Flywheel (Aluminum)
729	280470	Clip - Wire
741	261696	Gear - Timing (Plain Bearing)
823	93712	Screw - Socket Head
842	270920	Seal - Filler Cap
846	93763	Washer - Spring
847	392066	Dipstick and Tube Assembly (Plastic Screw Cap)
851	221798	Cable Terminal - Ignition
853	394850	Brace - Air Cleaner
855	211982	Elbow - Air Cleaner
864	394279	Adapter - Muffler
869	211787	Seat - Intake Valve
870	211172	Seat - Exhaust Valve
871	262001	Guide - Exhaust Valve (Brass) ----- Note ----- 63709 Guide - Intake Valve
877	393854	Diode Assembly
878	393422	Harness - Alternator
883	*272309	Gasket - Muffler
897	394970	Trigger Coil
922	261647	Spring - Band Brake
923	394867	Brake Assembly - Band

940	223687	Guard - Flywheel
941	280395	Cover - Linkage
942	397668	Bracket Assy. - Lever
949	493945	Screen - Debris
		(Used After Code Date 90032600).
		----- Note -----
		399802 Screen - Debris
		(Used Before Code Date 90032700).
949A	280680	Guard - Finger
		(Rewind Starter)
954	224471	Bracket - Mounting
		(Used After Code Date 90032600).
		----- Note -----
		223491 Bracket - Mtg.
		(Used Before Code Date 90032700).
987	398970	Seal - Throttle Shaft
		(Used After Code Date 85102000).
994	399541	Arrester - Spark
997	223490	Shield - Debris
999	212980	Spacer - Oil Fill Tube
1016	490817	Spacer
1019	491101	Label Kit

* Included in Gasket Set - Part No.
297616

· Included in Carburetor Kit - Part No.
494625