



Parts Manual

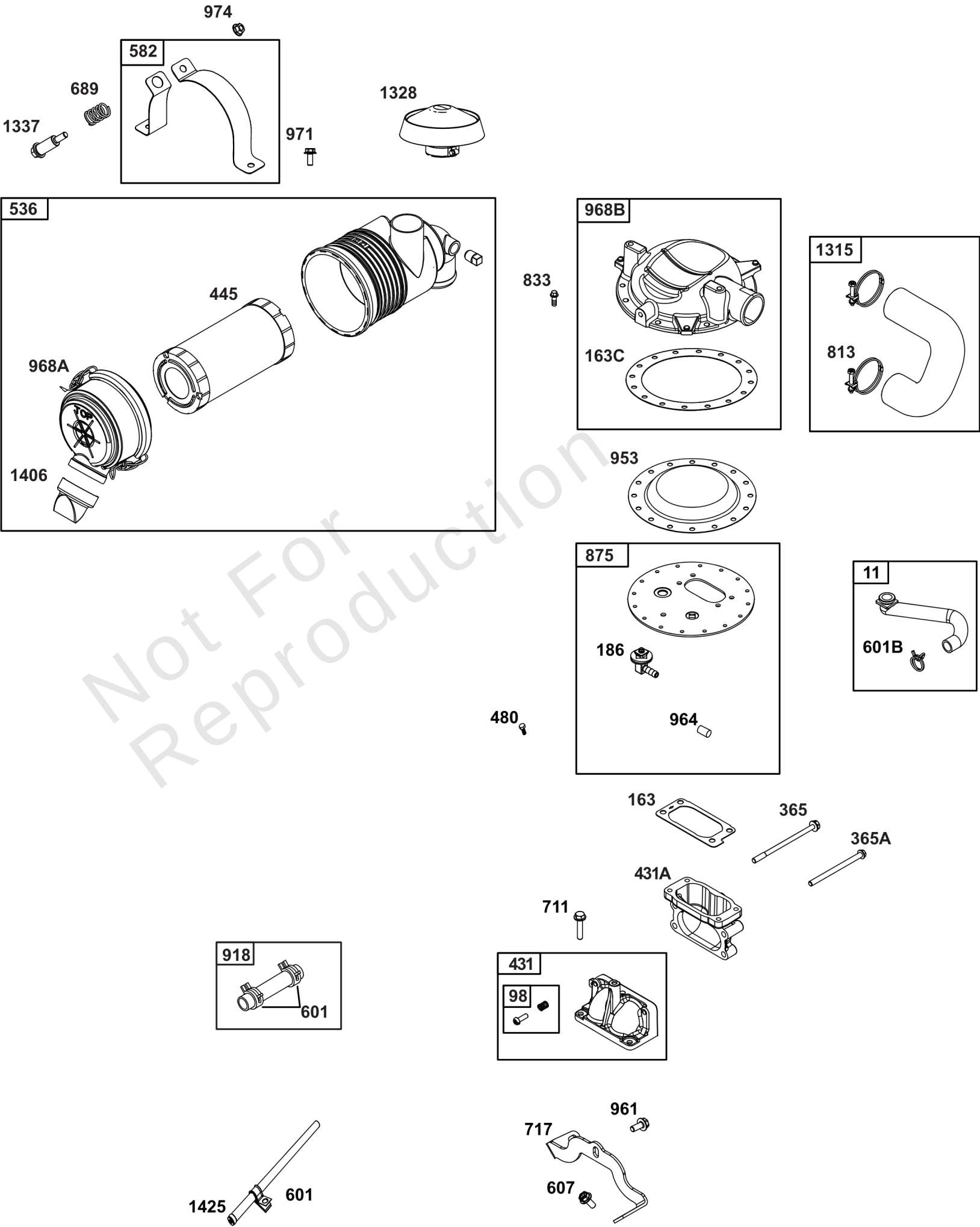
Mfg. No: 386447-0095-B5

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Air Cleaner Group

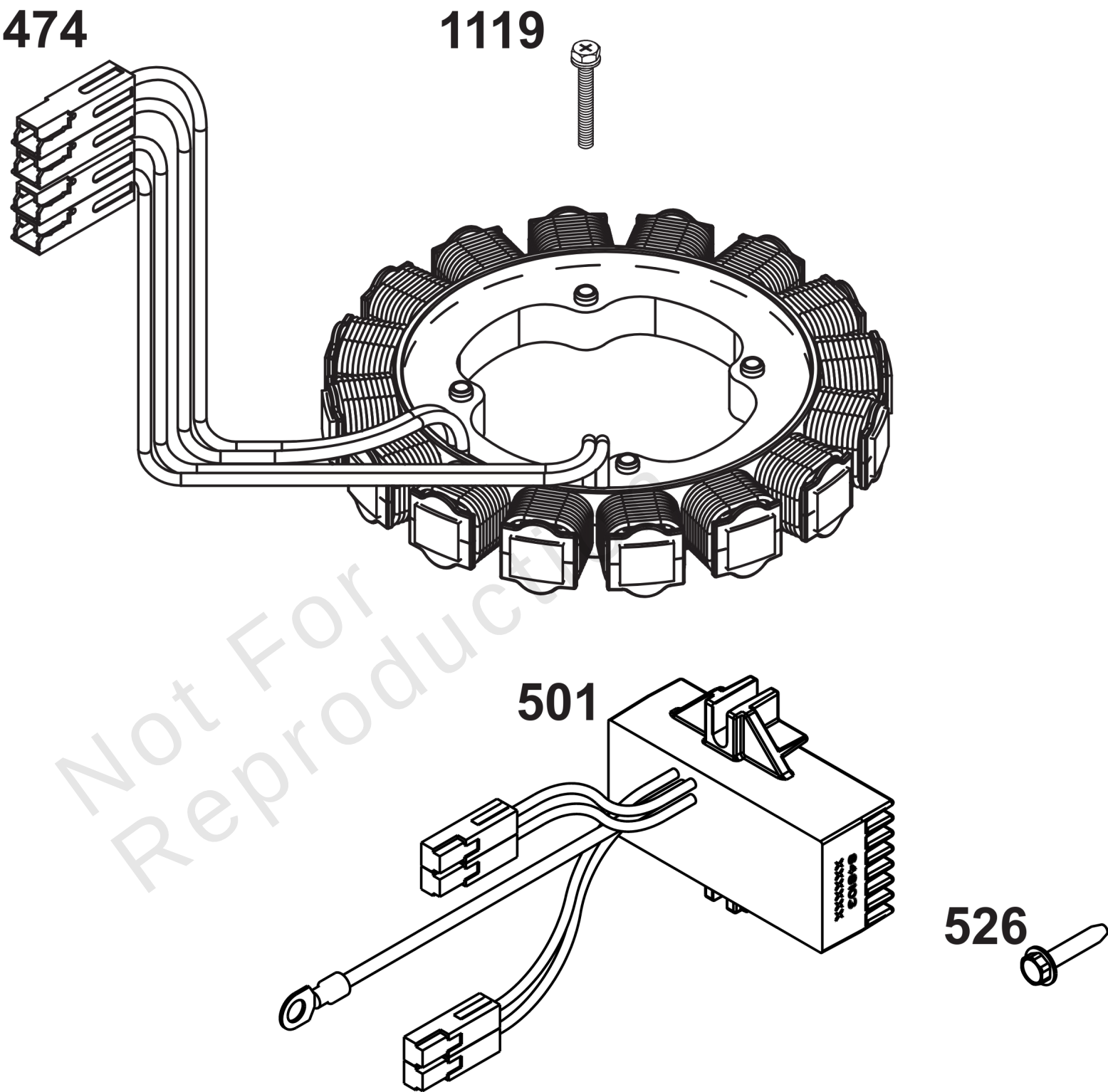
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Air Cleaner Group

REF NO	PART NO	QTY	DESCRIPTION
11	806379	1	TUBE, Breather
98	843545	1	KIT, Idle Speed
163	692087	1	GASKET, Air Cleaner
163C	841823	2	GASKET, Air Cleaner
186	845141	1	CONNECTOR, Hose
365	-----	2	SCREW -(Part information located in Carburetor Group.)
365A	-----	2	SCREW -(Part information located in Carburetor Group.)
431	808659	1	MANIFOLD, Intake
431A	691534	1	MANIFOLD, Intake
445	820263	1	FILTER, A/C Cartridge
480	806660	1	SCREW -(Tube Clamp)
536	825118	1	CLEANER, Air
582	843114	1	CLAMP, Air Cleaner
582	843114	1	CLAMP, Air Cleaner
601	845268	2	CLAMP, Hose
601B	691145	1	CLAMP, Hose
607	841233	2	SCREW -(Air Cleaner Brace)
689	843113	1	SPRING, Friction
711	691492	5	SCREW -(Carburetor Shield)
717	843332	1	BRACKET, Air Cleaner
813	807377	2	CLAMP
833	847281	8	SCREW -(Air Cleaner Mounting Strap/Stud)
875	843109	1	BASE, Air Cleaner
918	791880	1	HOSE, Vacuum
953	845030	1	SCREEN, Air Cleaner
961	807084	2	SCREW -(Air Cleaner Bracket)
964	807468	1	CAP, Carburetor
968A	842620	1	COVER, Air Cleaner
968B	841822	1	COVER, Air Cleaner
971	807084	2	SCREW -(Air Cleaner Base To Carburetor/Throttle Body)
974	690941	1	NUT -(Air Cleaner Clamp)
1315	843111	1	HOSE, Air Cleaner
1328	716244	1	CAP, A/C Rain
1337	843112	1	SCREW -(Air Cleaner Clamp)
1406	842623	1	VALVE, Debris
1425	844712	1	HOSE, Purge Line



Alternator Group

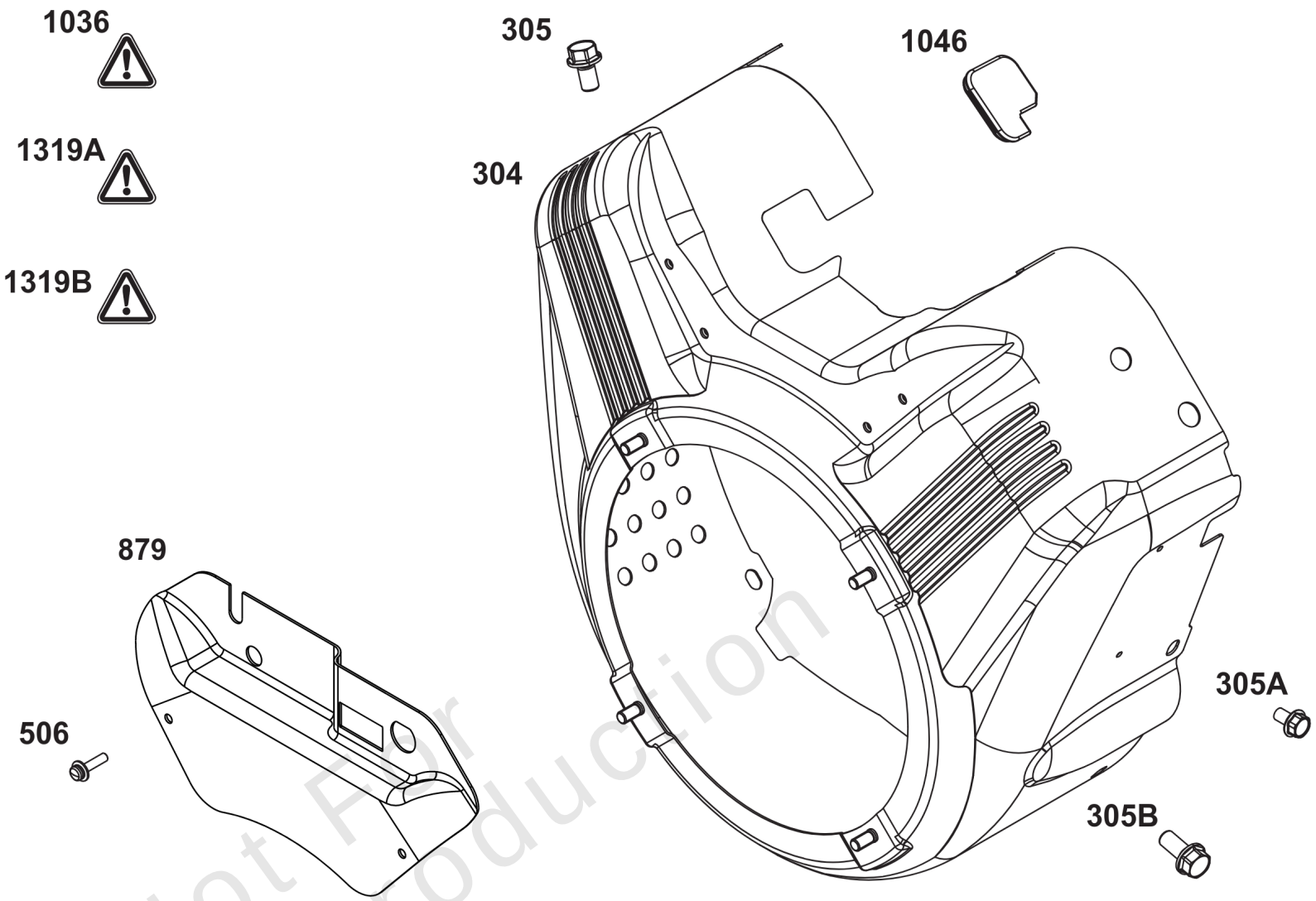
REF NO	PART NO	QTY	DESCRIPTION
474	841178	1	ALTERNATOR
501	848187	1	REGULATOR
526	691547	2	SCREW -(Regulator)
1119	691552	4	SCREW -(Alternator)

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Blower Housing Group

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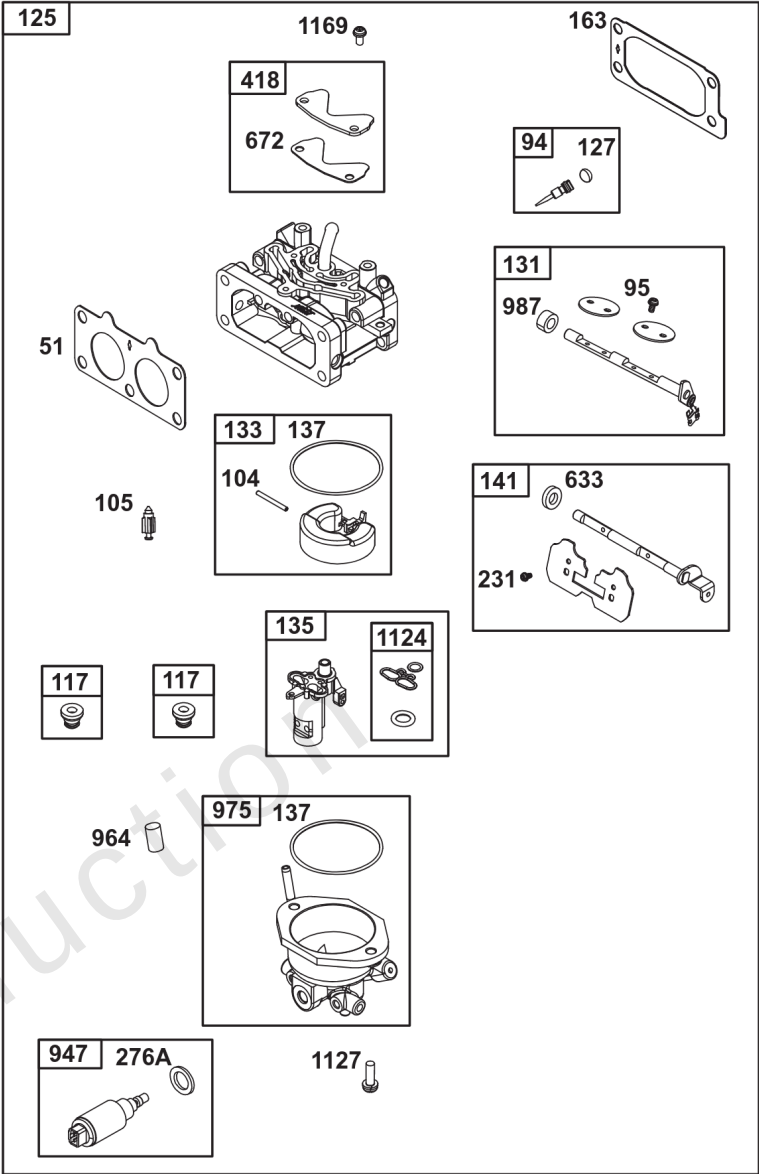
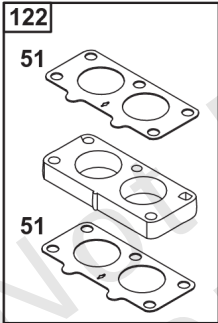
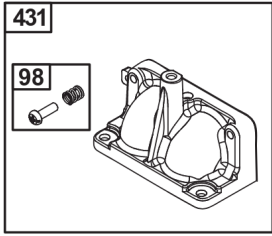
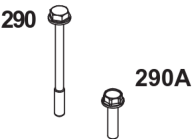
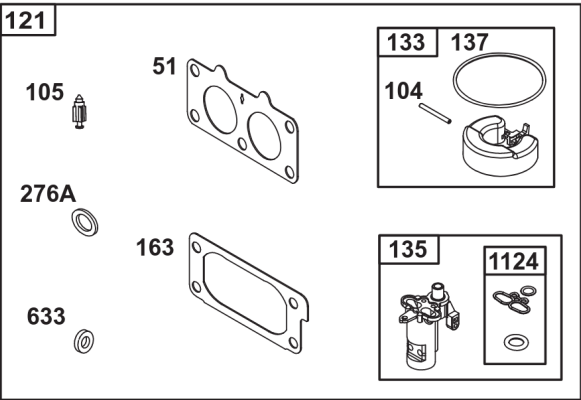
Blower Housing Group

REF NO	PART NO	QTY	DESCRIPTION
1036	-----	1	LABEL, Emissions -(Available From A Briggs & Stratton Authorized Service Dealer)
1046	841165	1	PLUG, Blower Housing
1319A	797669	1	LABEL, Warning -(Required When Replacing Parts With Warning Labels Affixed)
1319B	278911GS	1	LABEL, Warning -(Required When Replacing Parts With Warning Labels Affixed)
304	841489	1	HOUSING, Blower
305	692056	4	SCREW -(Blower Housing)
305A	841233	4	SCREW -(Blower Housing)
305B	692062	6	SCREW -(Blower Housing)
506	807120	2	SCREW -(Carburetor/EFI Cover)
879	841607	1	COVER, Carburetor/EFI

Carburetor Group

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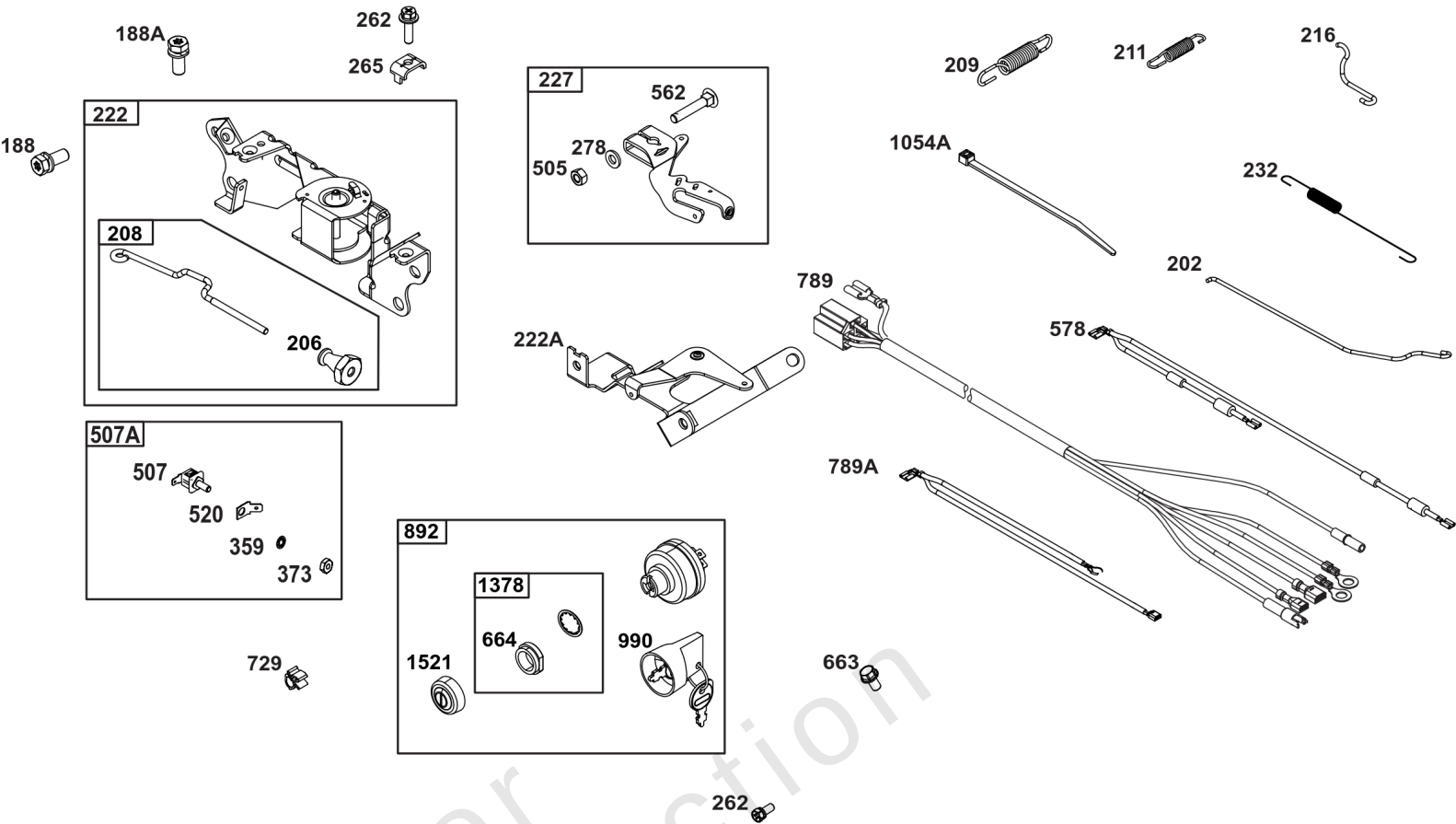
Carburetor Group

REF NO	PART NO	QTY	DESCRIPTION
51	-----	3	GASKET, Intake -(Part information located in Cylinder Head Group.)
94	844593	2	KIT, Idle Mixture
95	690718	6	SCREW -(Throttle Valve)
98	-----	1	KIT, Idle Speed -(Part information located in Air Cleaner Group.)
104	844598	1	PIN, Float Hinge
105	698537	1	VALVE, Float Needle
117	843099	1	JET, Main -(Standard) (Left Jet)
117	699457	1	JET, Main -(Standard) (Right Jet)
118	845330	1	JET, Main -(High Altitude) (Left Jet)
118	699820	1	JET, Main -(High Altitude) (Right Jet)
121	843103	1	KIT, Carburetor Overhaul -(Service Kits can include parts not for this engine.)
122	690870	1	SPACER, Carburetor
125	845315		CARBURETOR
127	844590	2	PLUG, Welch
131	845240	2	KIT, Throttle Shaft
133	845291	1	FLOAT, Carburetor
135	842677	1	TUBE, Fuel Transfer
137	841651	1	GASKET, Float Bowl
141	843100	1	KIT, Choke Shaft
163	-----	1	GASKET, Air Cleaner -(Part information located in Air Cleaner Group.)
216	691542	1	LINK, Choke
231	690718	6	SCREW -(Choke Valve)
276A	695410	1	WASHER, Sealing
290	691537	1	SCREW
290A	691492	2	SCREW
365	847021	2	SCREW -(Carburetor/Throttle Body)
365A	690866	2	SCREW -(Carburetor/Throttle Body)
418	844589	1	PLATE, Carburetor Cover
431	-----	1	ELBOW, Intake -(Part information located in Air Cleaner Group.)
633	690722	1	SEAL, Choke/Throttle Shaft
672	843102	1	GASKET, Carburetor Plate
947	845654	1	SOLENOID, Fuel
964	-----	1	CAP, Connector -(Part information located in Air Cleaner Group.)
975	844591	1	BOWL, Float
987	691000	1	SEAL, Throttle Shaft
1124	842678	1	SEAL, O-Ring
1127	841621	2	SCREW -(Float Bowl To Carburetor Body)
1169	690990	2	SCREW -(Carburetor Cover Plate)

Controls Group

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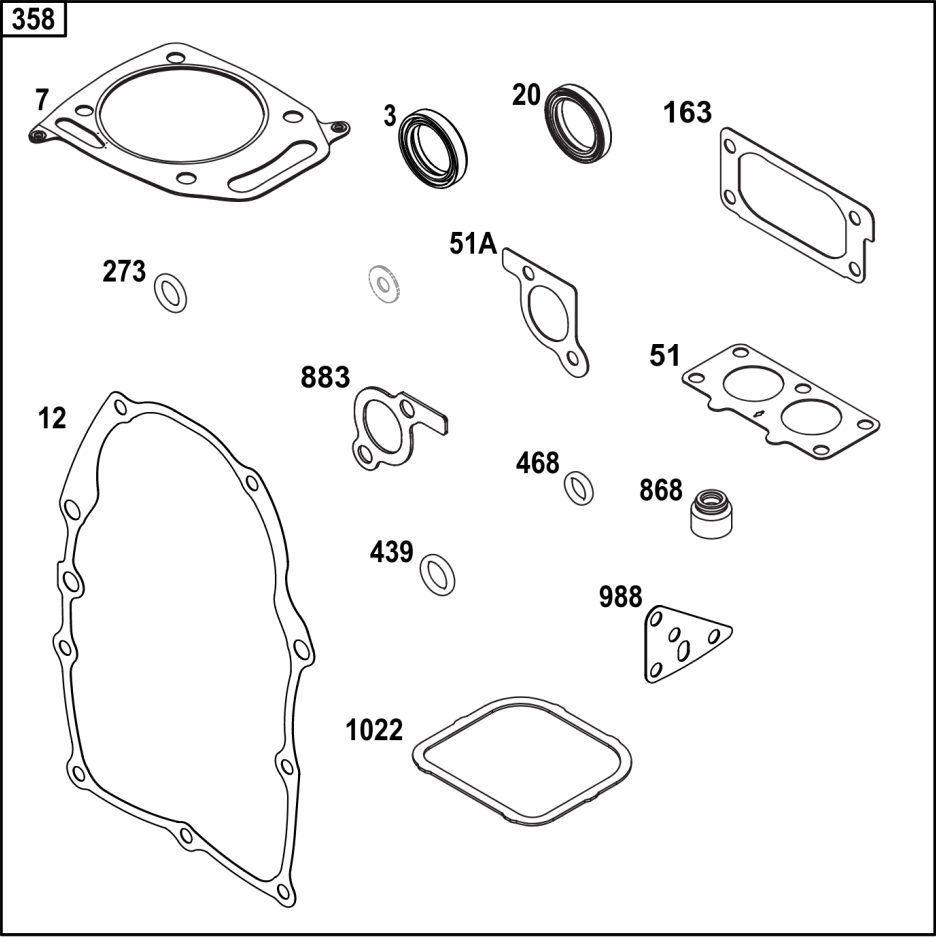
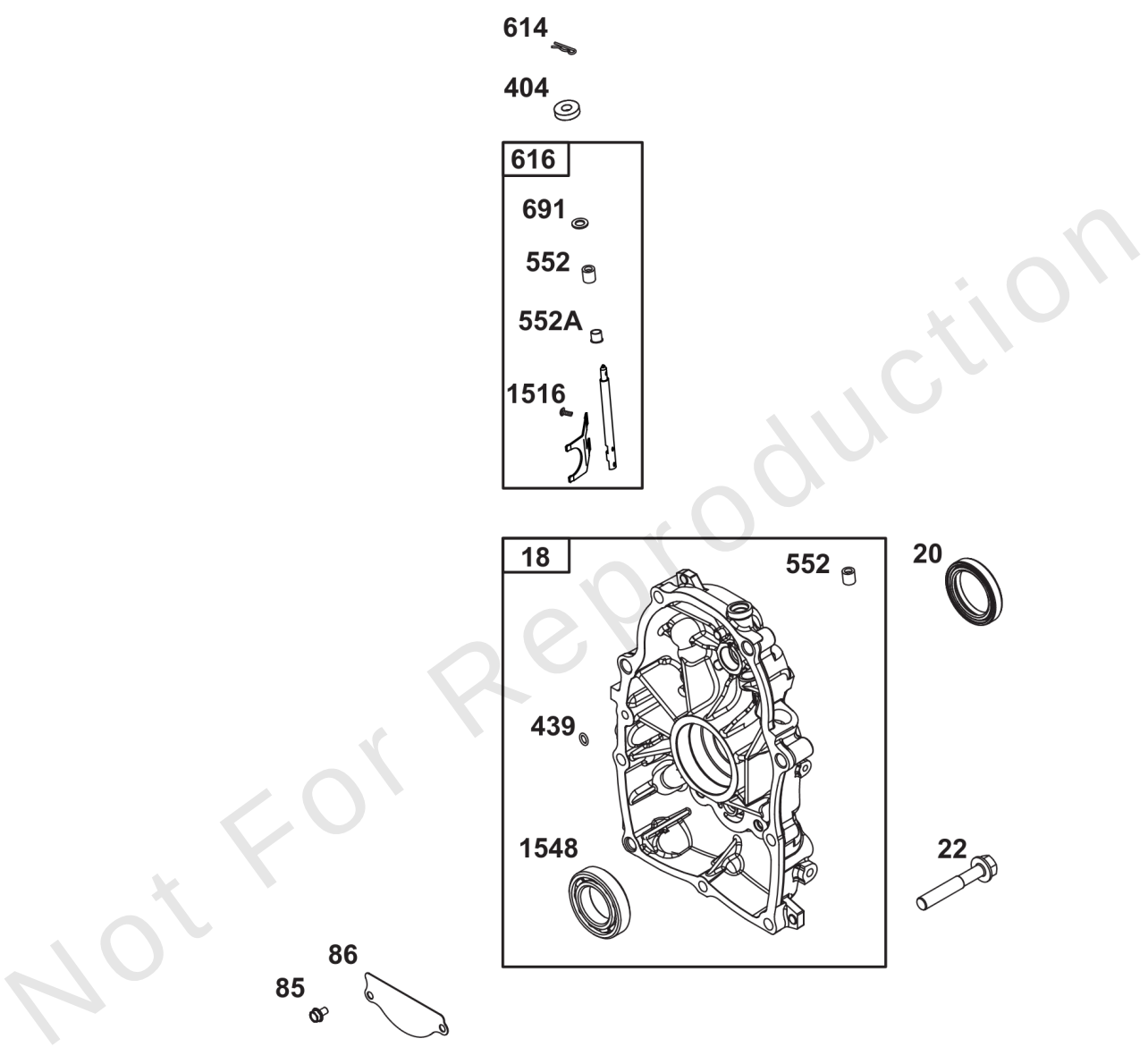
Controls Group

REF NO	PART NO	QTY	DESCRIPTION
188	692062	4	SCREW -(Control Bracket)
188A	691902	2	SCREW -(Control Bracket)
202	691536	1	LINK, Mechanical Governor
206	691244	1	NUT, Governor Adjusting
208	808453	1	ROD, Governor Control
209	692070	1	SPRING, Governor
211	692069	1	SPRING, Governed Idle
216	-----	1	LINK, Choke -(Part information located in Carburetor Group.)
222	808454	1	BRACKET, Control
222A	808753	1	CRANK, Bell
227	690236	1	LEVER, Governor Control
232	691538	1	SPRING/LINK, Governor
262	841552	1	SCREW
265	691024	1	CLAMP, Casing
278	842122	1	WASHER -(Governor Control Lever)
359	691077	1	WASHER -(Ground Terminal)
373	845823	1	NUT -(Ground Terminal)
505	844752	1	NUT -(Governor Control Lever)
507	691972	1	INSULATOR
507A	848341	1	CONNECTOR, Terminal
520	691084	1	TERMINAL, Ground
562	690239	1	BOLT -(Governor Control Lever)
578	844547	1	HARNESS, Wiring
663	841552	2	SCREW -(Control Panel)
664	691087	1	NUT -(Key Switch)
729	593826	1	CLIP, Wire
789	691996	1	HARNESS, Wiring
789A	844914	1	HARNESS, Wiring
892	847448	1	SWITCH, Key
990	691959	1	SET, Key
1054A	5021029SM	1	TIE, Cable 11" Long
1378	847144	1	SET, Washer/Nut
1521	847150	1	CAP, Switch

Crankcase Cover/Sump Group

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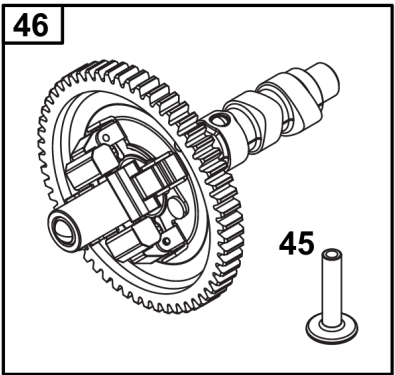
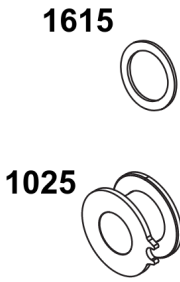
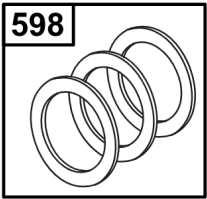
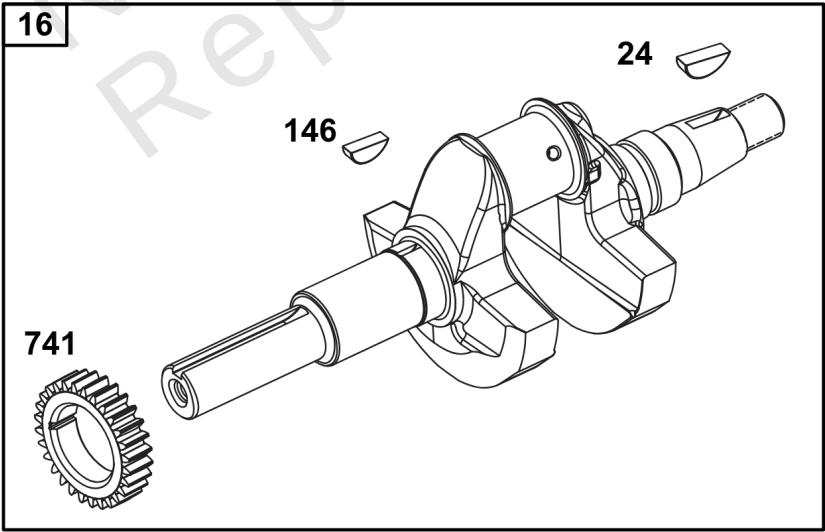
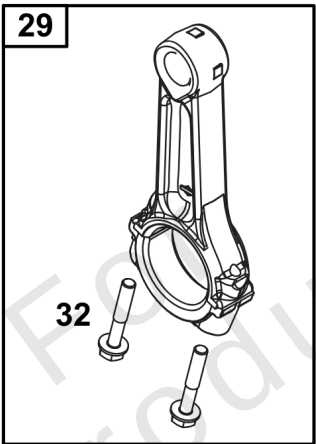
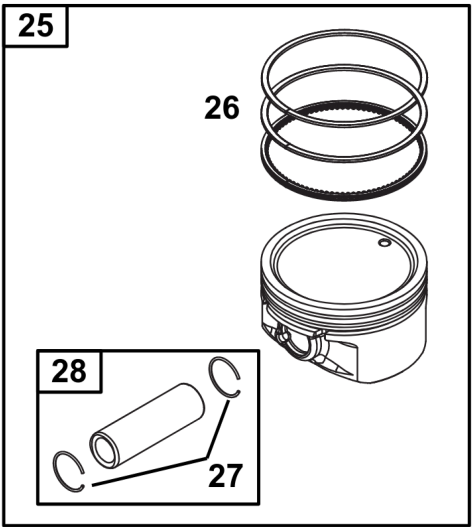
Crankcase Cover/Sump Group

REF NO	PART NO	QTY	DESCRIPTION
3	-----	1	SEAL, Oil -(Part information located in Cylinder Group.)
7	-----	2	GASKET, Cylinder Head -(Part information located in Cylinder Head Group.)
12	846487	1	GASKET, Crankcase
18	84004412	1	COVER, Crankcase
20	805049S	1	SEAL, Oil -(PTO Side)
22	807362	9	SCREW -(Crankcase Cover/Sump)
51	-----	3	GASKET, Intake -(Part information located in Cylinder Head Group.)
51A	-----	2	GASKET, Intake -(Part information located in Cylinder Head Group.)
85	841233	2	SCREW -(Gear Cover)
86	690745	1	COVER, Gear
163	-----	1	GASKET, Air Cleaner -(Part information located in Air Cleaner Group.)
273	-----	2	SEAL, O-Ring -Part information located in Lubrication Group.)
358	-----	1	GASKET SET, Engine -(Part information located in Cylinder Group.)
404	690704	1	WASHER -(Governor Crank)
439	692154	1	O-RING, Oil Gallery
468	-----	1	SEAL, O-Ring -Part information located in Lubrication Group.)
552	690701	1	BUSHING, Governor Crank
552A	806686	1	BUSHING, Governor Crank
614	691550	1	PIN, Cotter
616	806685	1	CRANK, Governor
691	842826	1	SEAL, Governor Shaft
868	-----	1	SEAL, Valve -(Part information located in Cylinder Head Group.)
883	-----	2	GASKET, Exhaust -(Part information located in Exhaust Group.)
988	-----	1	GASKET, Oil Adapter -(Part information located in Lubrication Group.)
1022	-----	2	GASKET, Rocker Cover -(Part information located in Cylinder Head Group.)
1516	846459	2	SCREW -(Governor Crank)
1548	843827	2	BEARING, Ball -(Crankcase Cover/Sump)

Crankshaft Group

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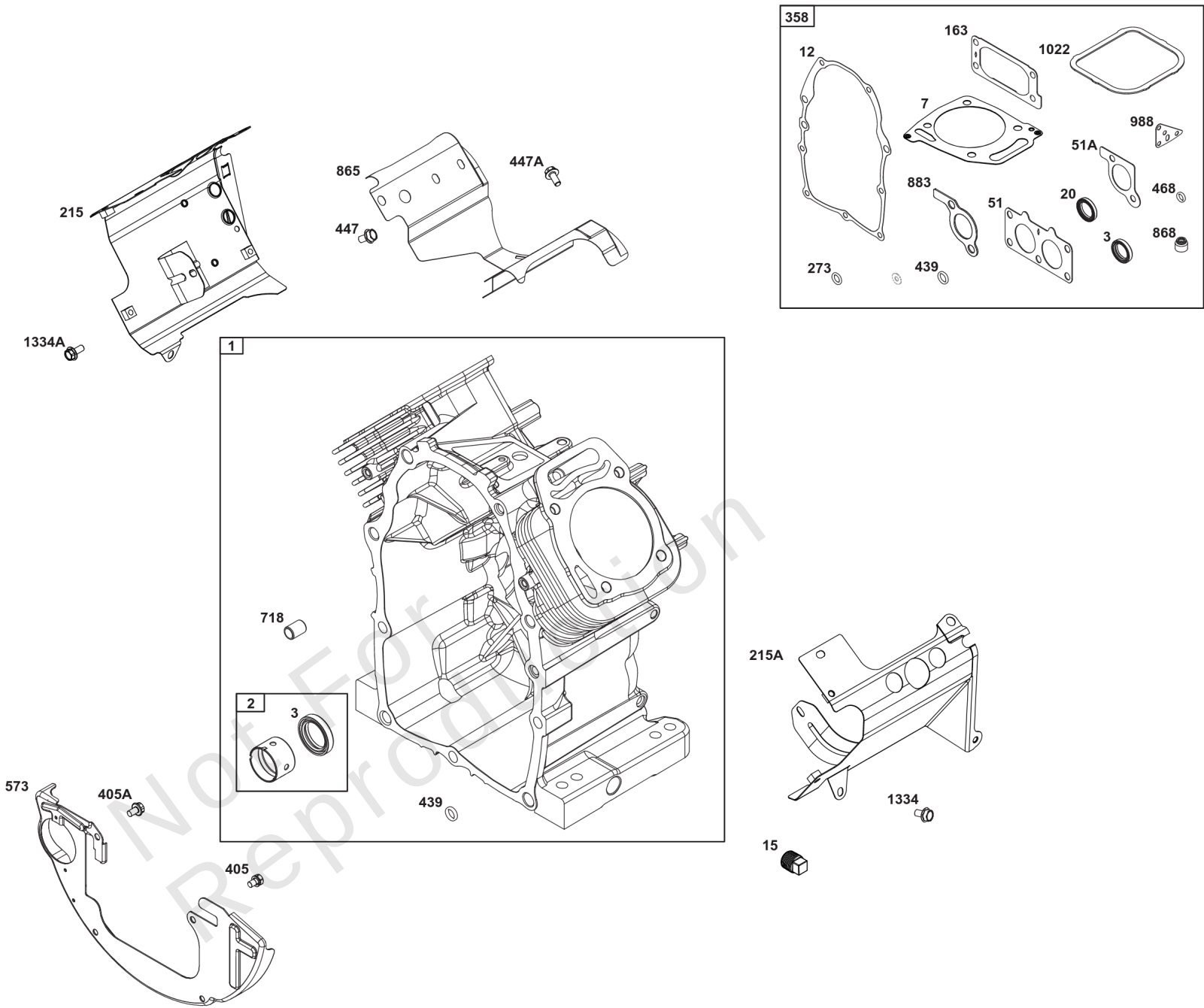
Crankshaft Group

REF NO	PART NO	QTY	DESCRIPTION
16	84004538	1	CRANKSHAFT
24	808095	1	KEY, Flywheel
25	843805	1	PISTON ASSEMBLY -(Standard)
25	844877	2	PISTON ASSEMBLY -(.020" Oversize)
26	843806	2	SET, Ring -(Standard)
26	843824	1	SET, Ring -(.020" Oversize)
27	690683	4	LOCK, Piston Pin
28	593650	2	PIN, Piston
29	807900S	2	ROD, Connecting
32	690698	4	SCREW -(Connecting Rod)
45	-----	4	TAPPET, Valve -(Part information located in Cylinder Head Group.)
46	690927	1	CAMSHAFT
146	691639	1	KEY, Woodruff
598	807625	1	SHIM, End Play -(Crankshaft Bearing)
741	846085	1	GEAR, Timing
1025	690689	1	SPOOL, Governor
1615	84007613	1	WASHER -(Governor Spool)

Cylinder Group

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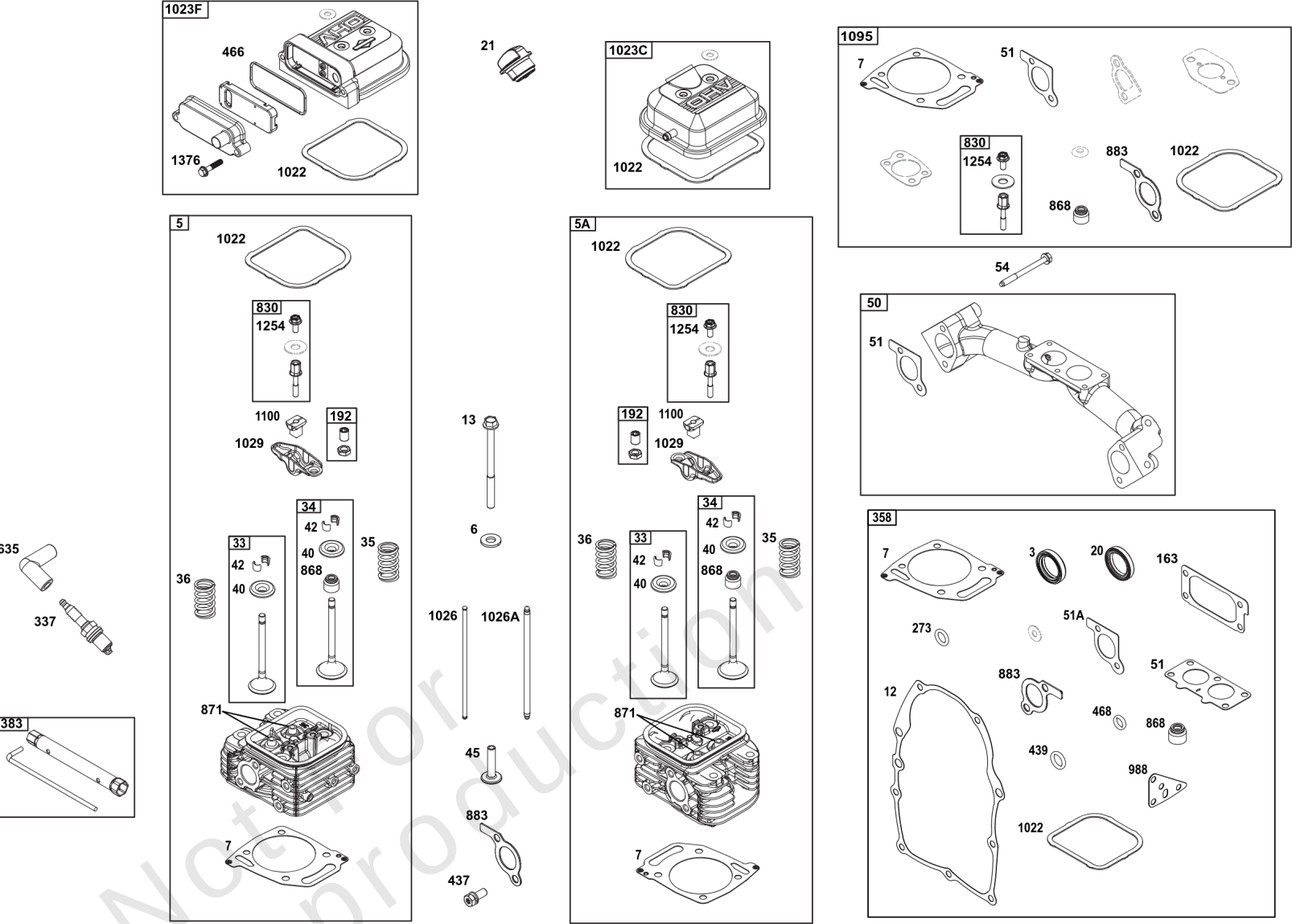
Cylinder Group

REF NO	PART NO	QTY	DESCRIPTION
1	84004607	1	CYLINDER ASSEMBLY
2	808534	1	KIT, Bushing/Seal -(Magneto Side)
3	845659	1	SEAL, Oil -(Magneto Side)
7	-----	2	GASKET, Cylinder Head -(Part information located in Cylinder Head Group.)
12	-----	1	GASKET, Crankcase -(Part information located in Crankcase Cover/Sump Group.)
15	690946	2	PLUG, Oil Drain
20	-----	1	SEAL, Oil -Part information located in Crankcase Cover/Sump Group.)
51	-----	1	GASKET, Intake -(Part information located in Cylinder Head Group.)
51A	-----	1	GASKET, Intake -(Part information located in Cylinder Head Group.)
163	-----	1	GASKET, Air Cleaner -(Part information located in Air Cleaner Group.)
215	841183	1	GUIDE, Air
215A	841182	1	GUIDE, Air
273	-----	2	SEAL, O-Ring -(Part information located in Lubrication Group.)
358	84006737	1	GASKET SET, Engine -(Service Kits can include parts not for this engine.)
405	807163	4	SCREW -(Back Plate)
405A	841233	3	SCREW -(Back Plate)
439	-----	1	O-RING, Oil Gallery -(Part information located in Crankcase Cover/Sump Group.)
447	841233	2	SCREW -(Air Guide Cover)
447A	807084	2	SCREW -(Air Guide Cover)
468	-----	1	SEAL, O-Ring -Part information located in Lubrication Group.)
573	841314	1	PLATE, Back
718	806469	2	PIN, Locating
865	843768	1	COVER, Air Guide
868	-----	2	SEAL, Valve -(Part information located in Cylinder Head Group.)
883	-----	2	GASKET, Exhaust -(Part information located in Exhaust Group.)
988	-----	1	GASKET, Oil Adapter -(Part information located in Lubrication Group.)
1022	-----	2	GASKET, Rocker Cover -(Part information located in Cylinder Head Group.)
1334	841233	2	SCREW -(Air Guide)
1334A	807084	4	SCREW -(Air Guide)

Cylinder Head Group

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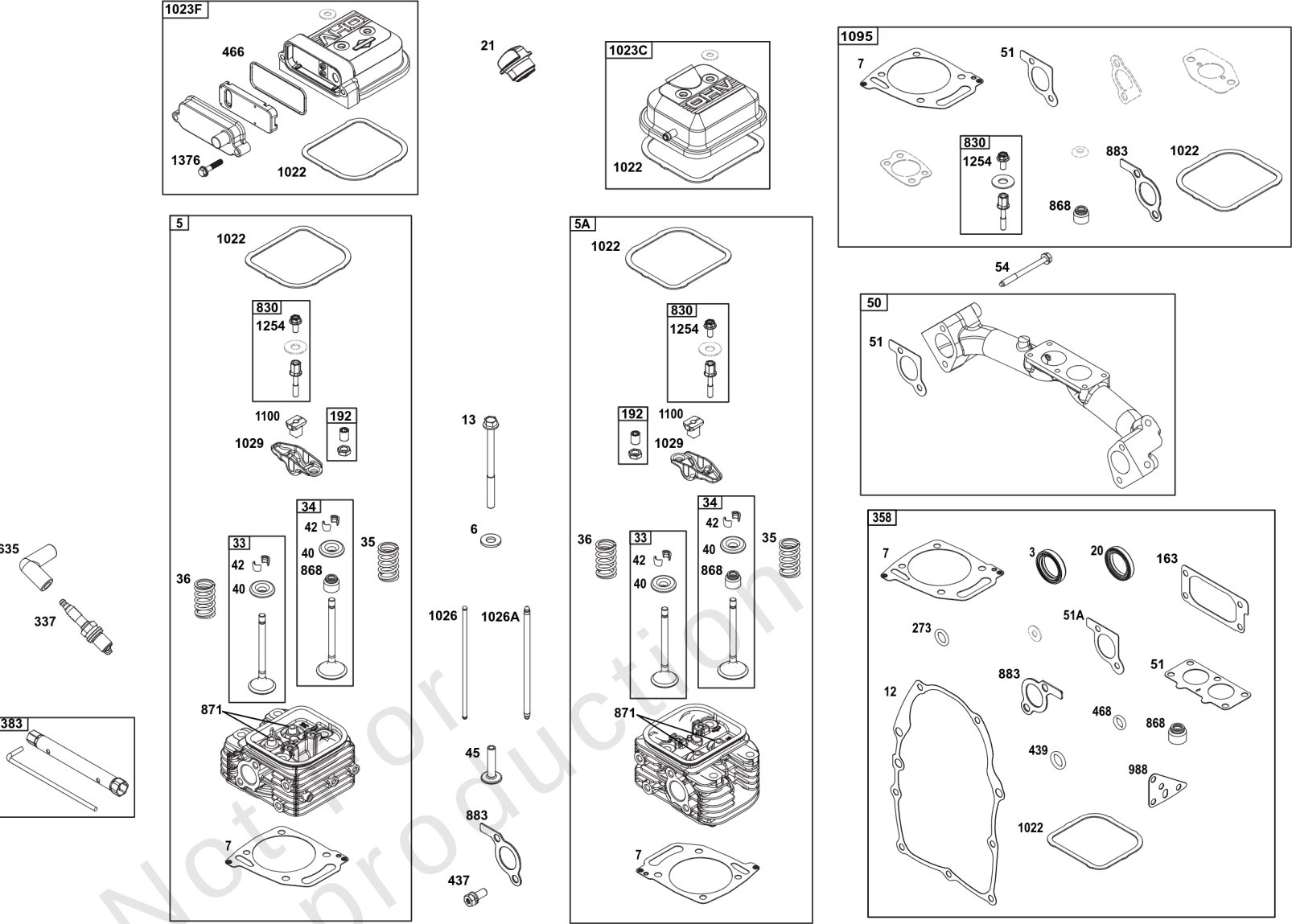
Cylinder Head Group

REF NO	PART NO	QTY	DESCRIPTION
3	-----	1	SEAL, Oil -(Part information located in Cylinder Group.)
5	84002012	1	HEAD, Cylinder -(Cylinder #1)
5A	84002013	1	HEAD, Cylinder -(Cylinder #2)
6	84005965	8	WASHER
7	84006734	2	GASKET, Cylinder Head
12	-----	1	GASKET, Crankcase -(Part information located in Crankcase Cover/Sump Group.)
13	842618	8	SCREW -(Cylinder Head)
20	-----	1	SEAL, Oil -(Part information located in Crankcase Cover/Sump Group.)
21	809500	1	CAP, Oil Fill
33	843752	2	VALVE, Exhaust
34	845712	2	VALVE, Intake
35	692084	2	SPRING, Valve -(Intake)
36	692084	2	SPRING, Valve -(Exhaust)
40	692058	4	RETAINER, Valve
42	807683	8	KEEPER, Valve
45	843379	4	TAPPET, Valve
50	806376	1	MANIFOLD, Intake
51	690950	3	GASKET, Intake
51A	806418	2	GASKET, Intake
54	806444	4	SCREW -(Intake Manifold)
163	-----	1	GASKET, Air Cleaner -(Part information located in Air Cleaner Group.)
192	807623	4	ADJUSTER, Rocker Arm
273	-----	2	SEAL, O-Ring -(Part information located in Lubrication Group.)
337	792015	2	PLUG, Spark
358	-----	1	GASKET SET, Engine -(Part information located in Cylinder Group.)
383	19576S	1	WRENCH, Spark Plug
437	691902	4	SCREW -(Exhaust Manifold)
439	-----	1	O-RING, Oil Gallery -(Part information located in Crankcase Cover/Sump Group.)
466	806466	1	SEAL, O-Ring -(Breather Assembly)
468	-----	1	SEAL, O-Ring -(Part information located in Lubrication Group.)
635	84005066	2	BOOT, Spark Plug
830	809157	4	STUD, Rocker Arm
868	691963	2	SEAL, Valve
871	84002672	4	BUSHING, Valve Guide
883	-----	2	GASKET, Exhaust -(Part information located in Exhaust Group.)
988	-----	1	GASKET, Oil Adapter -(Part information located in Lubrication Group.)
1022	806039S	2	GASKET, Rocker Cover
1023C	690910	1	COVER, Rocker

Cylinder Head Group

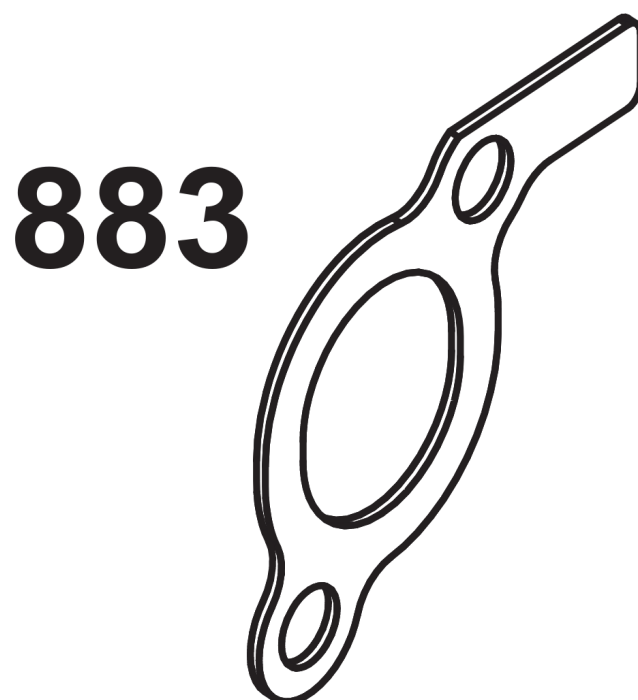
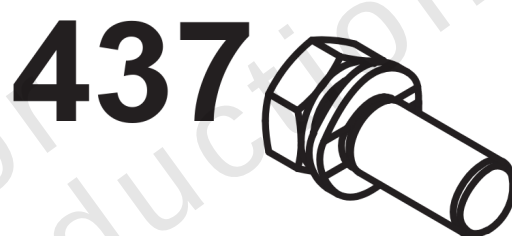
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Cylinder Head Group

REF NO	PART NO	QTY	DESCRIPTION
1023F	843750	1	COVER, Rocker
1026	691836	1	ROD, Push
1026A	691758	1	ROD, Push
1029	807323	1	ARM, Rocker
1095	84006736	1	GASKET SET, Valve -(Service Kits can include parts not for this engine.)
1100	791959	4	PIVOT, Rocker Arm
1254	807084	4	SCREW -(Rocker Arm Stud)
1376	806421	2	SCREW -(Breather Reed Cover)



Exhaust Group

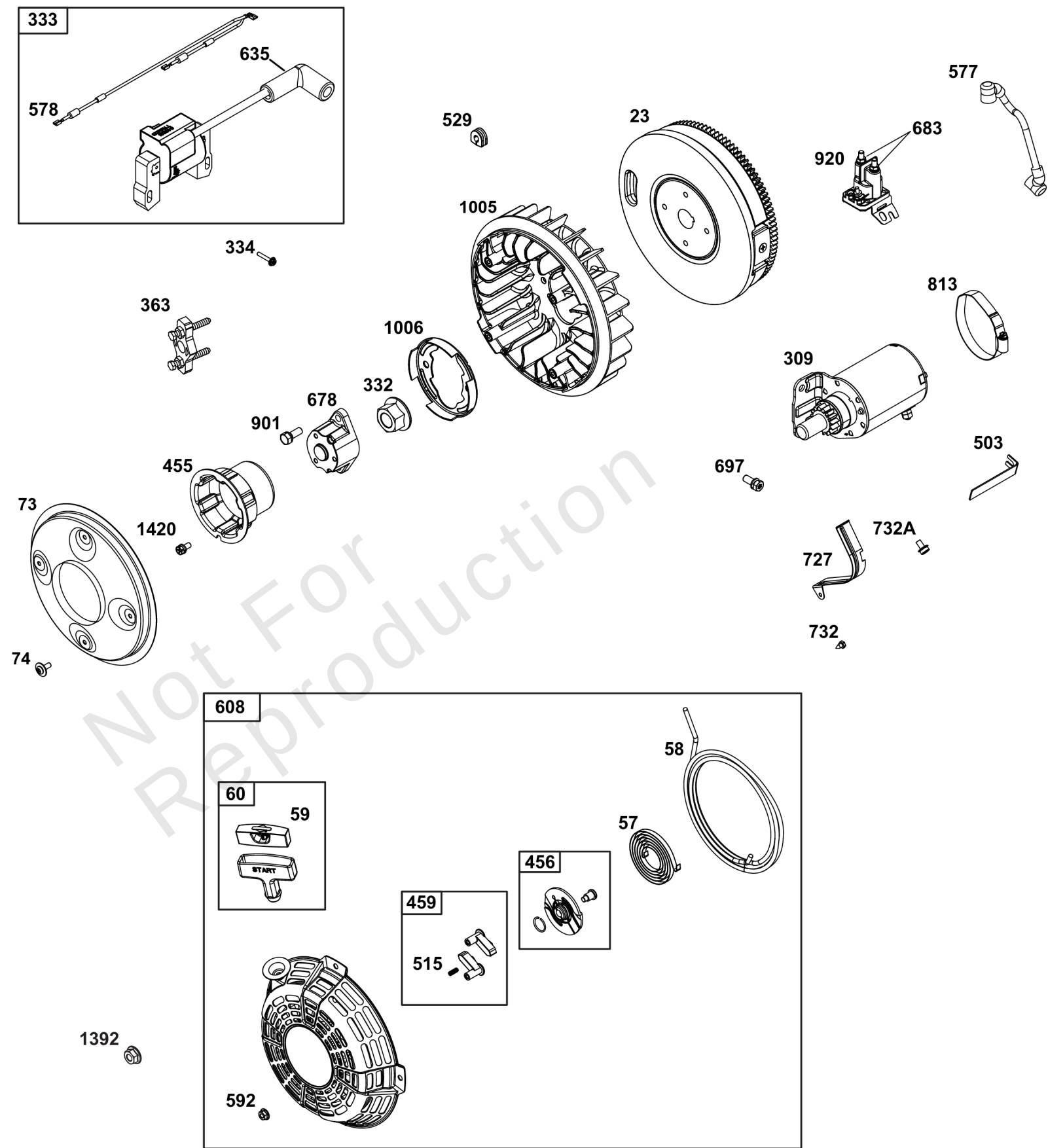
REF NO	PART NO	QTY	DESCRIPTION
437	691902	4	SCREW -(Exhaust Manifold)
819	692056	3	SCREW -(Muffler Bracket)
883	806425	2	GASKET, Exhaust

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Flywheel, Ignition, and Starter Group

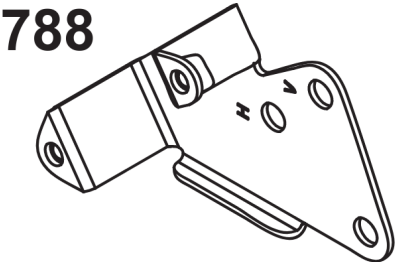
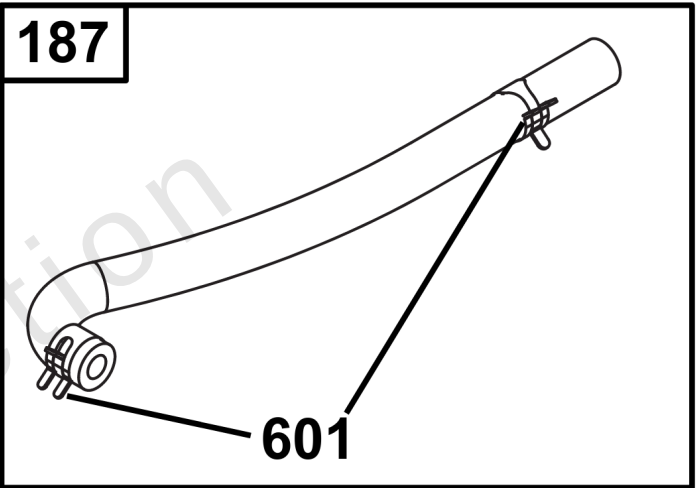
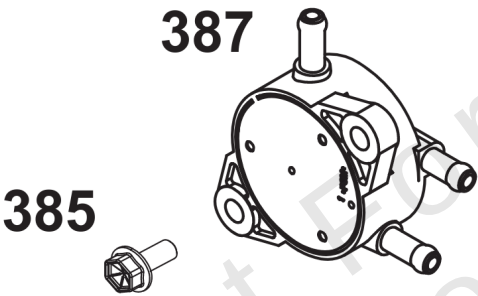
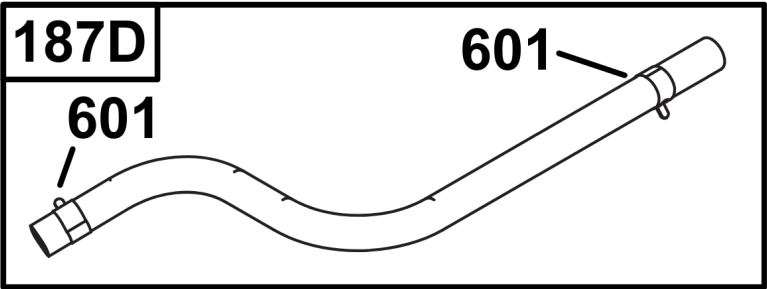
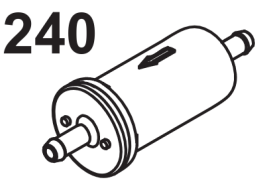
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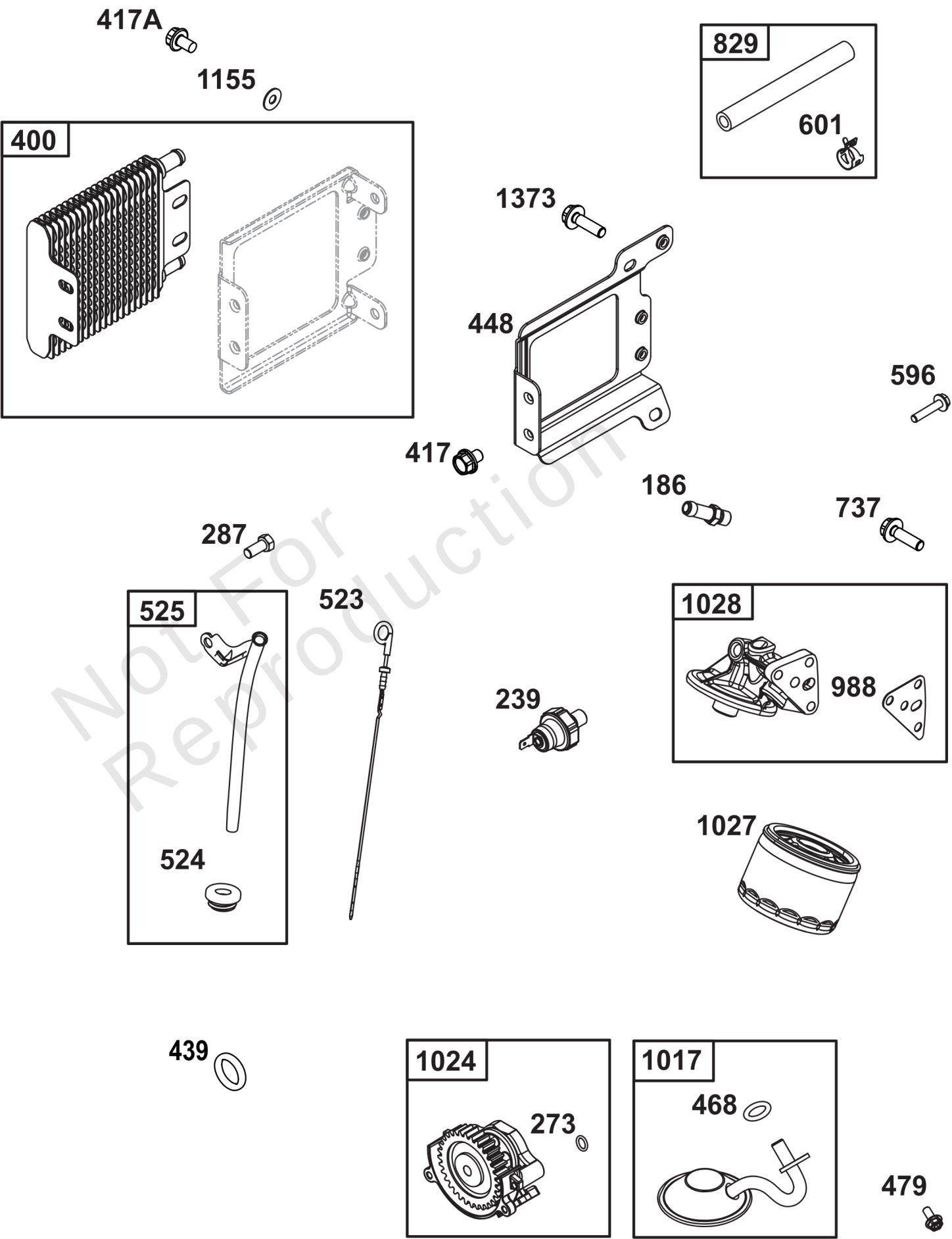
Flywheel, Ignition, and Starter Group

REF NO	PART NO	QTY	DESCRIPTION
23	842442	1	FLYWHEEL
57	692086	1	SPRING, Rewind Starter
58	66574	1	ROPE, Starter
59	805957	1	INSERT, Grip
60	808167	1	GRIP, Starter Rope
73	841662	1	SCREEN, Rotating
74	841441	4	SCREW -(Rotating Screen)
309	844717	1	MOTOR, Starter
332	690887	1	NUT -(Flywheel)
333	84003819	2	ARMATURE, Magneto
334	692066	1	SCREW -(Magneto Armature)
363	19203	1	PULLER, Flywheel
455	841794	1	CUP, Flywheel
456	845219	1	PLATE, Pawl Friction -(NLA - Please see Ref 608 to Service)
459	845218	2	PAWL, Ratchet
503	845016	1	STRAP, Starter
515	691528	2	SPRING, Pawl
529	690744	2	GROMMET
577	690795	1	CABLE, Starter
578	-----	1	WIRE ASSEMBLY -(Part information located in Controls Group.)
592	690939	4	NUT -(Rewind Starter)
608	841729	1	STARTER, Rewind
635	-----	1	BOOT, Spark Plug -(Part information located in Cylinder Head Group.)
678	841730	1	SPACER
683	691029	2	NUT -(Starter Solenoid)
697	691902	2	SCREW -(Drive Cap)
727	841313	1	COVER, Starter Drive
732	690688	1	SCREW -(Starter Drive Cover)
732A	841233	1	SCREW -(Starter Drive Cover)
813	690635	1	CLAMP
901	846234	2	SCREW -(Rewind Spacer)
920	846820	1	SOLENOID, Starter
1005	841439	1	FAN, Flywheel
1006	690452	1	RETAINER, Fan
1392	690939	4	NUT -(Rewind Guard)
1420	841735	3	SCREW -(Flywheel Cup To Rewind Spacer)



Fuel Supply Group

REF NO	PART NO	QTY	DESCRIPTION
187	791766	2	LINE, Fuel
187D	791744	1	LINE, Fuel
240	845125	1	FILTER, Fuel
385	807084	2	SCREW -(Fuel Pump)
387	597338	1	PUMP, Fuel
601	691038	4	CLAMP, Hose
628	806660	2	SCREW -(Fuel Pump Bracket)
628A	692062	1	SCREW -(Fuel Pump Bracket)
788	691559	1	BRACKET, Fuel Pump



Lubrication Group

REF NO	PART NO	QTY	DESCRIPTION
186	693184	2	CONNECTOR, Hose
239	690233	1	SWITCH, Oil Pressure
273	690681	2	SEAL, O-Ring -(Oil Pump)
287	692062	2	SCREW -(Dipstick Tube)
400	846489	1	COOLER, Oil
417	843345	2	SCREW -(Oil Cooler)
417A	841233	2	SCREW -(Oil Cooler)
439	692154	1	O-RING, Oil Gallery -(Crankcase Cover/Sump or Cylinder Assembly)
448	841488	1	BRACKET, Oil Cooler
468	690690	1	SEAL, O-Ring -(Oil Pump Screen)
479	807084	1	SCREW -(Oil Pump Screen)
523	693175	1	DIPSTICK
524	693172	1	SEAL, O-Ring -(Dipstick Tube)
525	693174	1	TUBE, Dipstick
596	691492	2	SCREW -(Oil Pump)
601	841597	4	CLAMP, Hose
737	84006523	2	SCREW -(Oil Filter Adapter)
829	841999	1	HOSE/CLAMP ASSEMBLY
988	692063	1	GASKET, Oil Adapter
1017	690900	1	SCREEN, Oil Pump
1024	843825	1	PUMP, Oil
1027	842921	1	FILTER, Oil
1028	843898	1	ADAPTER, Oil Filter
1155	806647	1	WASHER -(Oil Cooler)
1373	84006523	1	SCREW -(Oil Cooler Bracket)



Model 29, 30, 35 & 38 Engine Accessories Catalog

Not For
Reproduction

Maintenance Kits

Note: Unless noted otherwise, use the standard torque specifications

Model 29, 30, 35 & 38 Engine Accessories Catalog



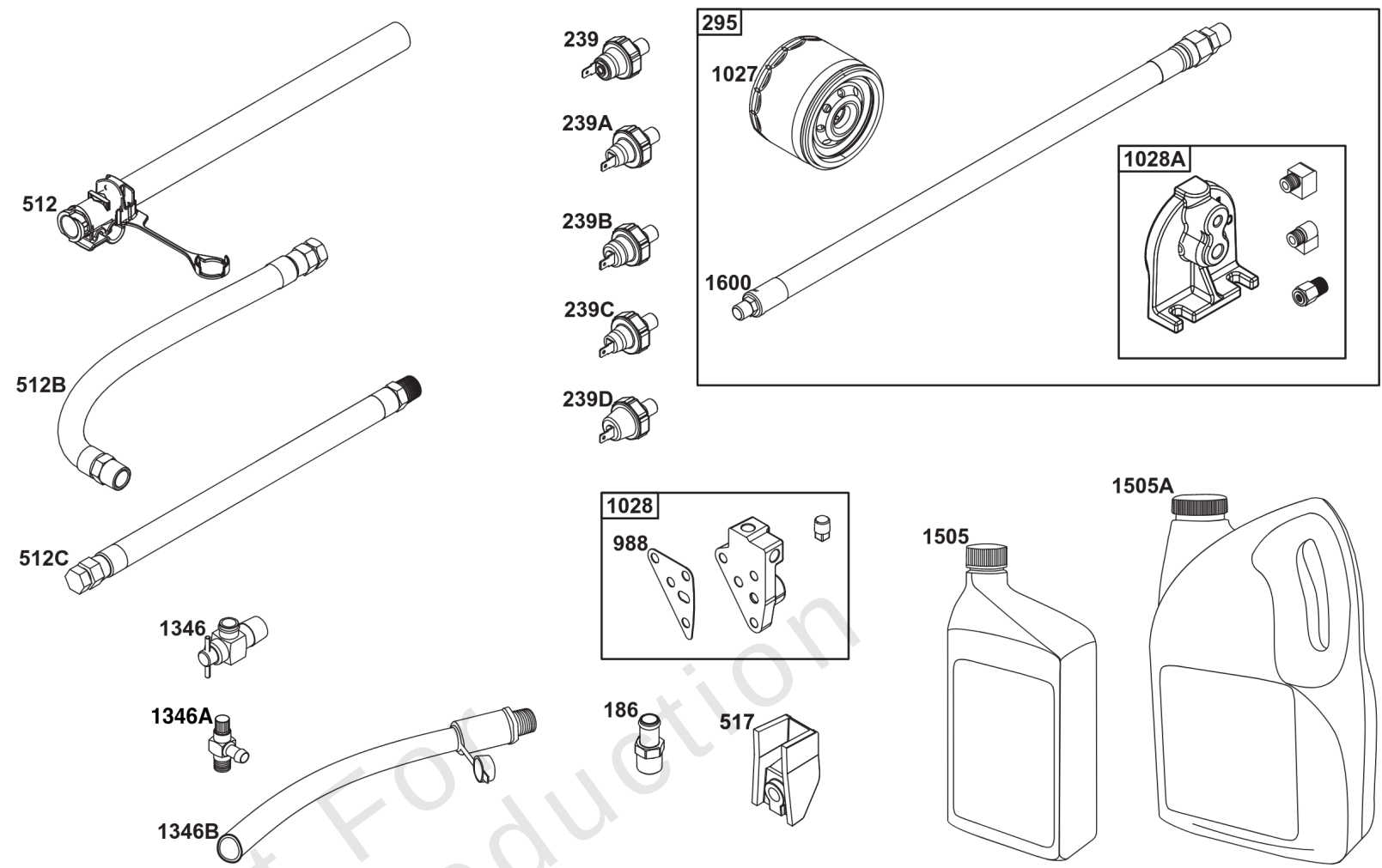
Maintenance Kits

REF NO	PART NO	QTY	DESCRIPTION
9000	84004936		KIT, Maintenance -(Non-Oil Guard™ Engines) (20 - 23 HP)
9000A	84004937		KIT, Maintenance -(Non-Oil Guard™ Engines) (12.5 - 18 HP)
9000B	84002315		KIT, Maintenance -(Non-Oil Guard™ Engines)
240	845125	1	FILTER, Fuel
240A	84001895	1	FILTER, Fuel
337	491055S	2	PLUG, Spark
337	84007216	2	PLUG, Spark -(China Only)
445	692519	1	FILTER, A/C Cartridge -"Professional / PXi" & "Commercial / CXi".
445A	394018S	1	FILTER, A/C Cartridge -"Professional / PXi" & "Commercial / CXi".
445B	841497	1	FILTER, A/C Cartridge -"Professional / PXi" & "Commercial / CXi".
967	692520	1	FILTER, Pre Cleaner
967A	272490S	1	FILTER, Pre Cleaner
1027	842921	1	FILTER, Oil -(Vanguard®)
1505	100169		OIL-1QT VANGUARD (CASE) -(1 qt. Bottle)

Lubrication

Note: Unless noted otherwise, use the standard torque specifications

Model 29, 30, 35 & 38 Engine Accessories Catalog



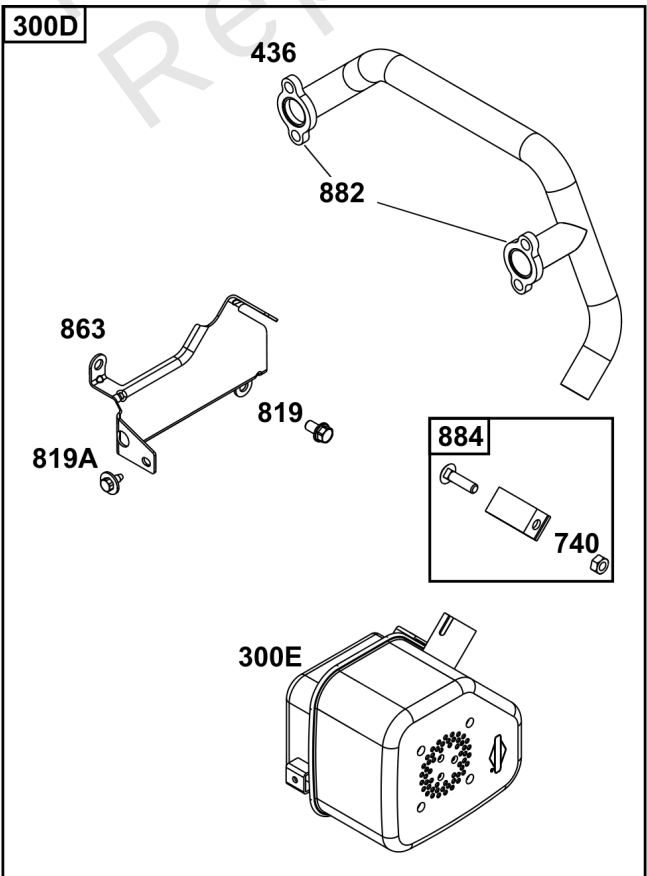
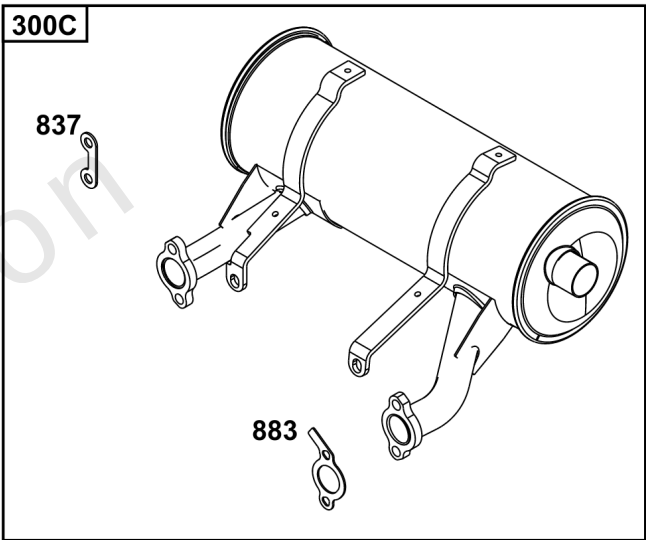
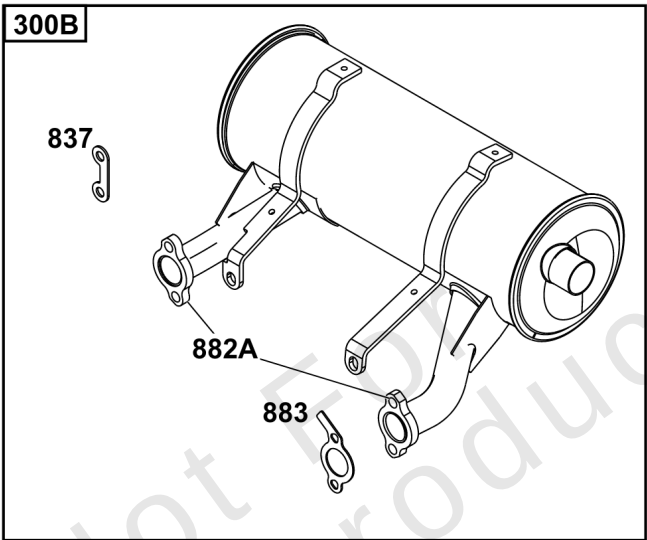
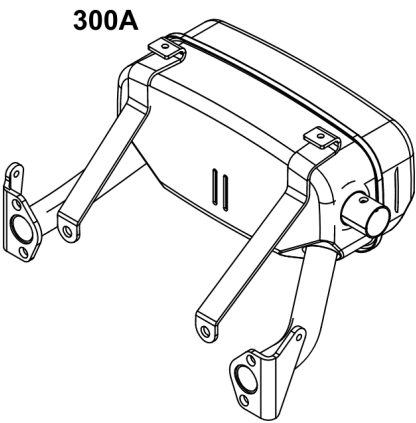
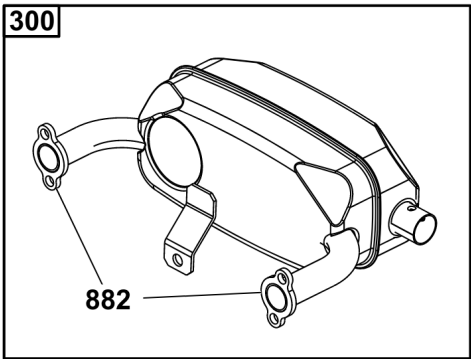
Lubrication

REF NO	PART NO	QTY	DESCRIPTION
186	796532	1	CONNECTOR, Hose -(Threaded Engine Block Connector for EZ-Oil Drain Hose)(Order hose separate)
239	690233	1	SWITCH, Oil Pressure -(2-4 PSI Normally-Closed Switch)
239A	491657S	1	SWITCH, Oil Pressure -(3-5 PSI Normally-Closed Switch)
239B	841281	1	SWITCH, Oil Pressure -(7-10 PSI Normally-Closed Switch)
239C	694115	1	SWITCH, Oil Pressure -(9-13 PSI Normally-Closed Switch)
239D	697049	1	SWITCH, Oil Pressure -(3-6 PSI Normally-Open Switch)
295	492061	1	ADAPTER, Remote Oil Filter -(Remote oil filter head with 18" (48 cm) hoses)
295	492062	1	ADAPTER, Remote Oil Filter -(Remote oil filter head with 30" (76 cm) hoses)
512	594200	1	HOSE, Oil Drain -(EZ-Oil Drain Hose, 10.5")(Order threaded engine block connector separate)
512	593635	1	HOSE, Oil Drain -(EZ-Oil Drain Hose, 13.75")(Order threaded engine block connector separate)
512B	1723165SM	1	HOSE, Oil Drain, 10-1/2" Long, 3/8-18 Fittings -(10.5")
512C	5048681SM	1	HOSE, OIL DRAIN -(12.5")
517	593633	1	RETAINER, Oil Drain
988	692063	1	GASKET, Oil Adapter
1027	492932S	1	FILTER, Oil
1028	492687	1	ADAPTER, Oil Filter -(Adapter Kit for mounting remote oil filter)
1028A	495244	1	ADAPTER-OIL FILTER -(Remote oil filter mounting head with fittings)
1346	844802	1	VALVE, Oil Drain Shut Off
1346A	492031	1	VALVE, Oil Drain Shut Off
1346B	5401WEB	1	VALVE, Oil Drain Shut Off -(1/4 Turn Oil Drain Valve with Hose)
1505	100169		OIL-1QT VANGUARD (CASE) -(1 qt. Bottle)
1505A	100170		OIL-5QT VANGUARD (CASE) -(5 qt. Bottle)
1600	494724	2	HOSE, Remote Oil Filter -(Hoses only (2) 18" (48 cm))
1600	494725	2	HOSE, Remote Oil Filter -(Hoses only (2) 30" (76 cm))

Starter Motor Side Outlet Mufflers

Note: Unless noted otherwise, use the standard torque specifications

Model 29, 30, 35 & 38 Engine Accessories Catalog



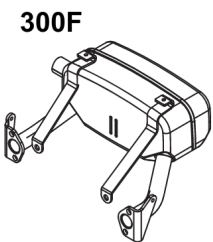
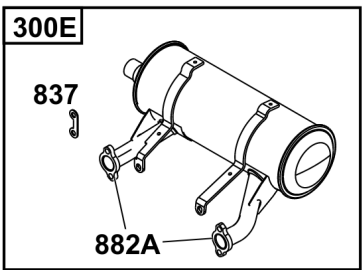
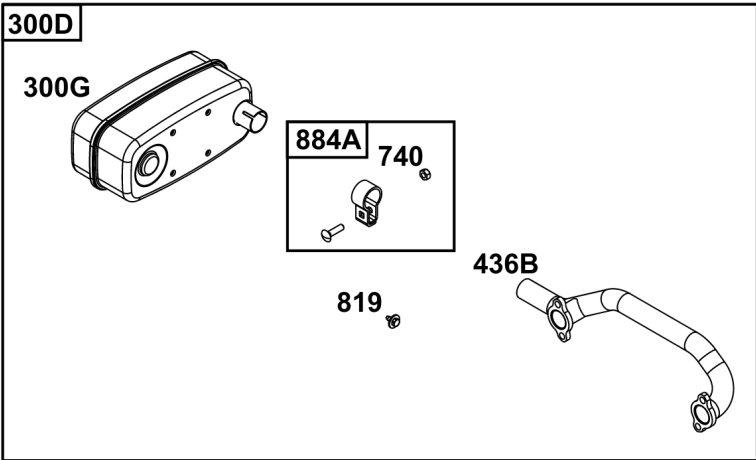
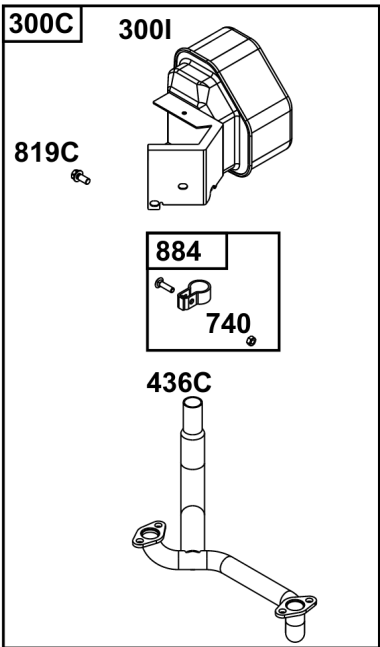
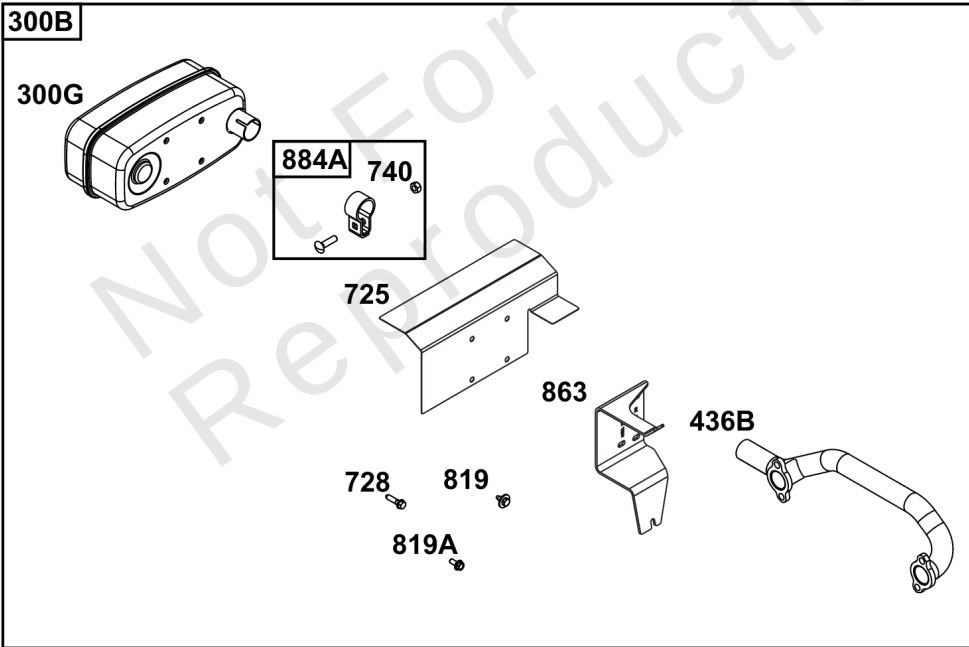
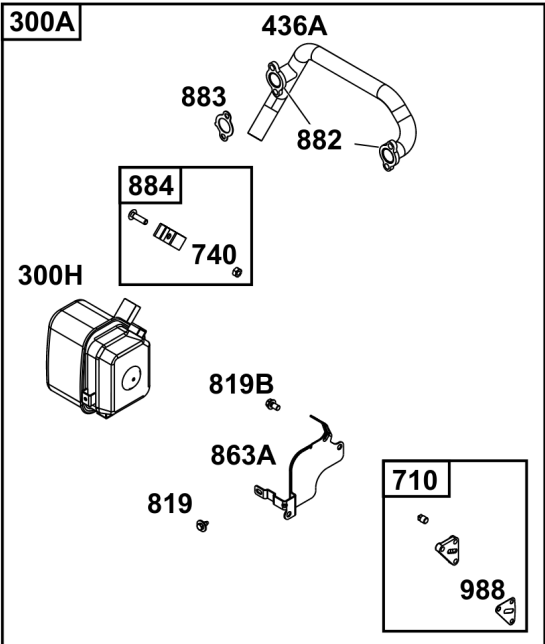
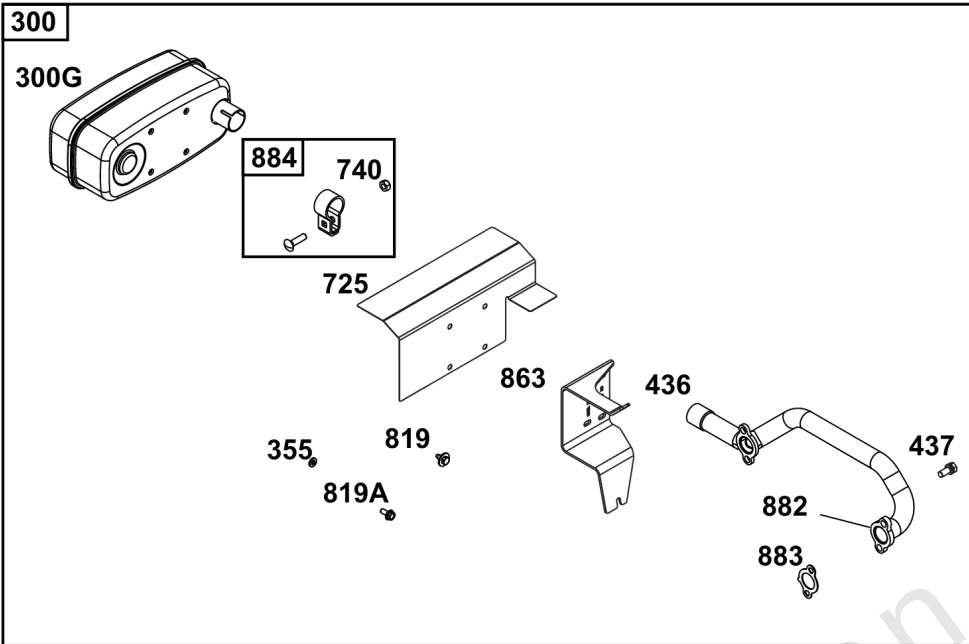
Starter Motor Side Outlet Mufflers

REF NO	PART NO	QTY	DESCRIPTION
300	690931	1	MUFFLER -(Super Lo-Tone) (Horizontal: 3054, 3564)
300A	690906	1	MUFFLER -(Super Lo-Tone) (Horizontal: 3054, 3564)
300B	808705	1	MUFFLER -(5" Round) (Horizontal: 3854, 3864)
300C	845873	1	MUFFLER -(5" Round, Stainless Steel) (Horizontal: 3854, 3864)
300D	995005	1	MUFFLER ASSY -(Lo-Tone) (Horizontal: 3054, 3564)
300E	692099	1	MUFFLER -(Lo Mount)
436	691499	1	MANIFOLD, Exhaust -(Cylinder 1) (Side Outlet)
740	793859	1	NUT
819	692056	2	SCREW -(Muffler Bracket) (M8x1.25)
819A	691514	2	SCREW -(Muffler Bracket) (M6 X 1.0)
837	808085	2	SPACER, Muffler -(Includes 2)
863	690756	1	BRACKET, Muffler -(Cylinder 1) (Side Outlet)
882	692074	2	FLANGE, Exhaust
882A	806965	2	FLANGE, Exhaust
883	806425	2	GASKET, Exhaust
884	690898	1	CLAMP, Muffler

Oil Filter Side Outlet Mufflers

Note: Unless noted otherwise, use the standard torque specifications

Model 29, 30, 35 & 38 Engine Accessories Catalog



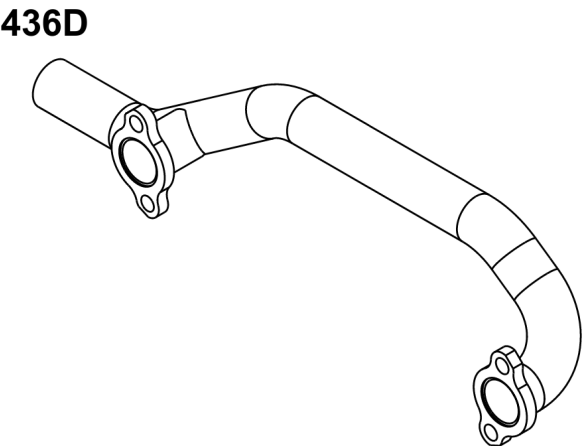
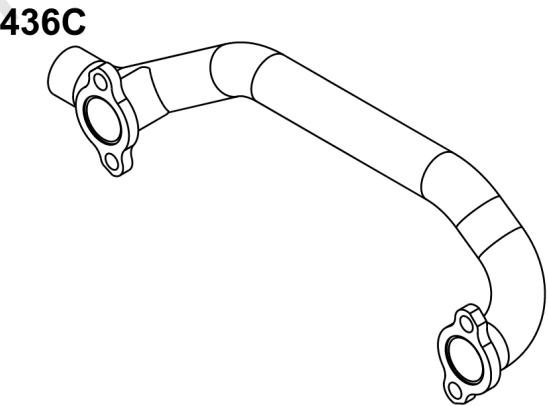
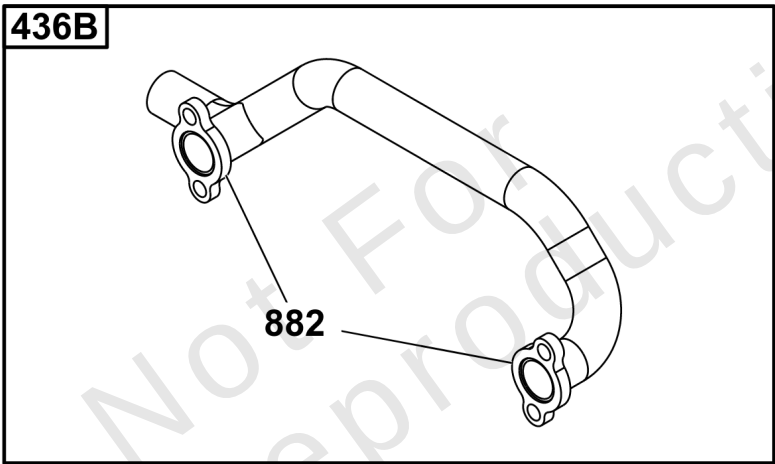
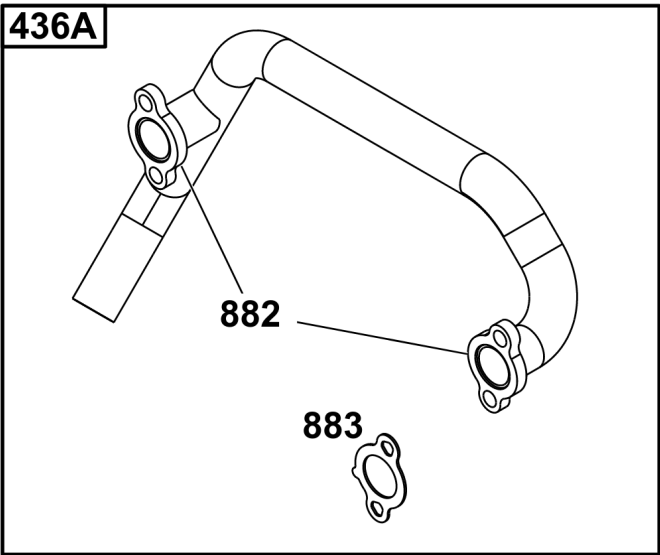
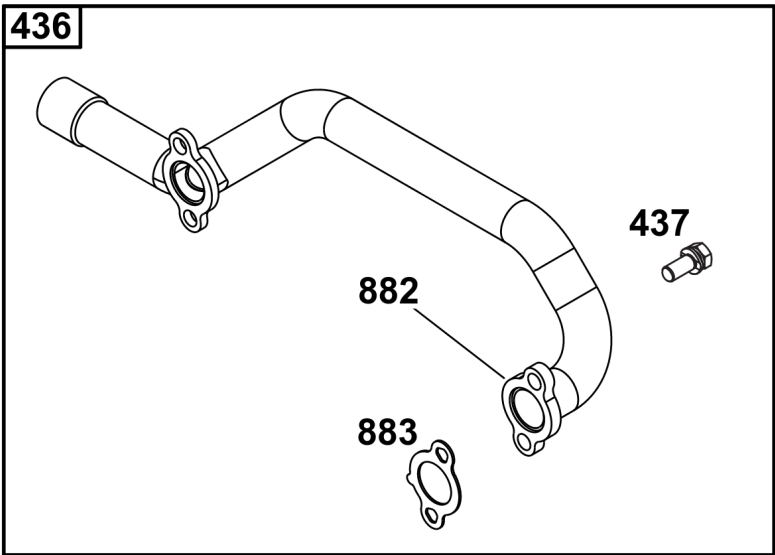
Oil Filter Side Outlet Mufflers

REF NO	PART NO	QTY	DESCRIPTION
300	995002	1	HIGH MNT SPR LO-TONE OIL FLTR SIDE -(Super Lo-Tone) (Horizontal: 3054, 3564) (Vertical: 3567)
300A	995000	1	OIL FILTER SIDE LO-MT -(Lo-Tone) (Horizontal: 3054, 3564) (Requires 808033 Oil Filter Adaptor)
300B	995004	1	HI MNT SPR LO-TONE OIL FLT SIDE -(Super Lo-Tone) (Horizontal: 3854, 3864) (Vertical: 3867)
300C	995009	1	COMMERCIAL MOWERS KIT -(For Wide Area Walker) (Vertical: 3567)
300D	995010	1	COMMERCIAL MOWERS KIT -(Vertical: 3867)
300E	808896	1	MUFFLER
300F	691562	1	MUFFLER -(Super Lo-Tone) (Horizontal: 3054, 3564)
300G	498984S	1	MUFFLER -(Super Lo Tone)
300H	807948	1	MUFFLER -(Lo Mount)
300I	807953	1	MUFFLER
355	842122	2	WASHER -(Muffler Bracket)
436	805609	1	MANIFOLD, Exhaust -(Cylinder 2) (Side Outlet)
436A	692061	1	MANIFOLD, Exhaust -(Cylinder 2) (Side Outlet)
436B	808916	1	MANIFOLD, Exhaust -(Cylinder 2) (Side Outlet)
436C	805778	1	MANIFOLD, Exhaust -(Wide Area Walker)
437	691902	4	SCREW -(Exhaust Manifold)
710	807689	1	COVER, Oil Filter
725	806102	1	SHIELD, Heat
728	690297	2	SCREW
740	793859	1	NUT
819	691514	2	SCREW -(Muffler Bracket) (M6 X 1.0)
819A	807084	2	SCREW -(Muffler Bracket)
819B	692056	2	SCREW -(Muffler Bracket) (M8x1.25)
819C	692062	2	SCREW -(Muffler Bracket)
837	808085	2	SPACER, Muffler -(Includes 2)
863	806759	1	BRACKET, Muffler
863A	691513	1	BRACKET, Muffler
882	692074	2	FLANGE, Exhaust -(3054 & 3564)
882A	806965	2	FLANGE, Exhaust
883	691613	2	GASKET, Exhaust
884	690898	1	CLAMP, Muffler
884A	691956	1	CLAMP, Muffler
988	690687	1	GASKET, Oil Adapter

Oil Filter Side Outlet Manifolds

Note: Unless noted otherwise, use the standard torque specifications

Model 29, 30, 35 & 38 Engine Accessories Catalog



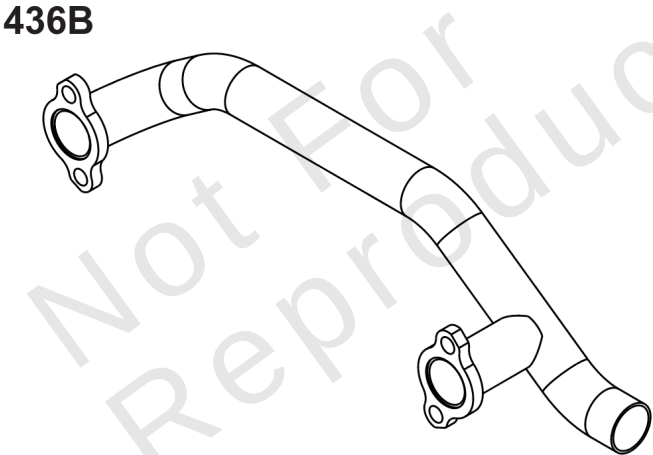
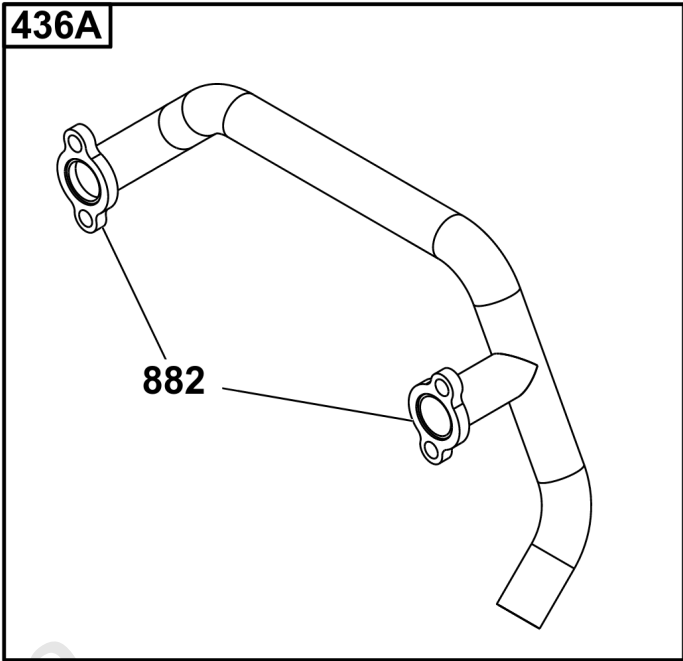
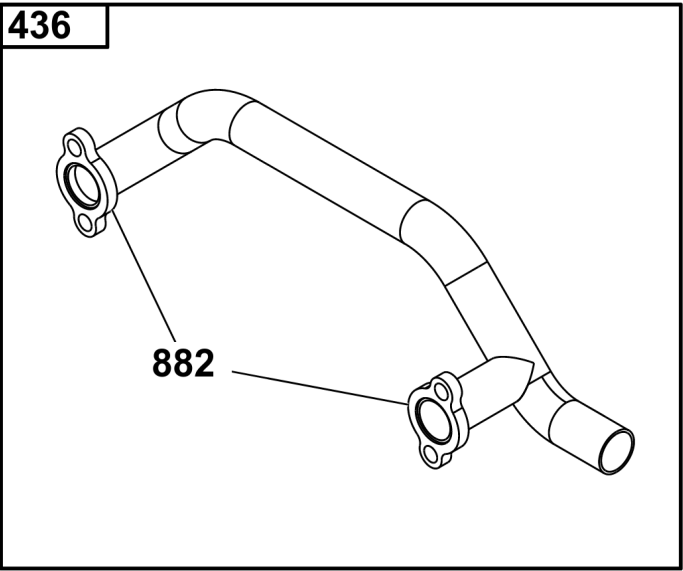
Oil Filter Side Outlet Manifolds

REF NO	PART NO	QTY	DESCRIPTION
436	805609	1	MANIFOLD, Exhaust -(Vertical: 3567)
436A	692061	1	MANIFOLD, Exhaust -(Horizontal: 3054, 3564)
436B	691501	1	MANIFOLD, Exhaust -(Horizontal: 3054, 3564)
436C	808908	1	MANIFOLD, Exhaust -(Horizontal: 3854, 3864)
436D	808916	1	MANIFOLD, Exhaust -(Horizontal: 3854, 3864) (Vertical: 3867)
437	691902	4	SCREW -(Exhaust Manifold)
882	692074	2	FLANGE, Exhaust
883	691613	2	GASKET, Exhaust

Starter Motor Side Outlet Manifolds

Note: Unless noted otherwise, use the standard torque specifications

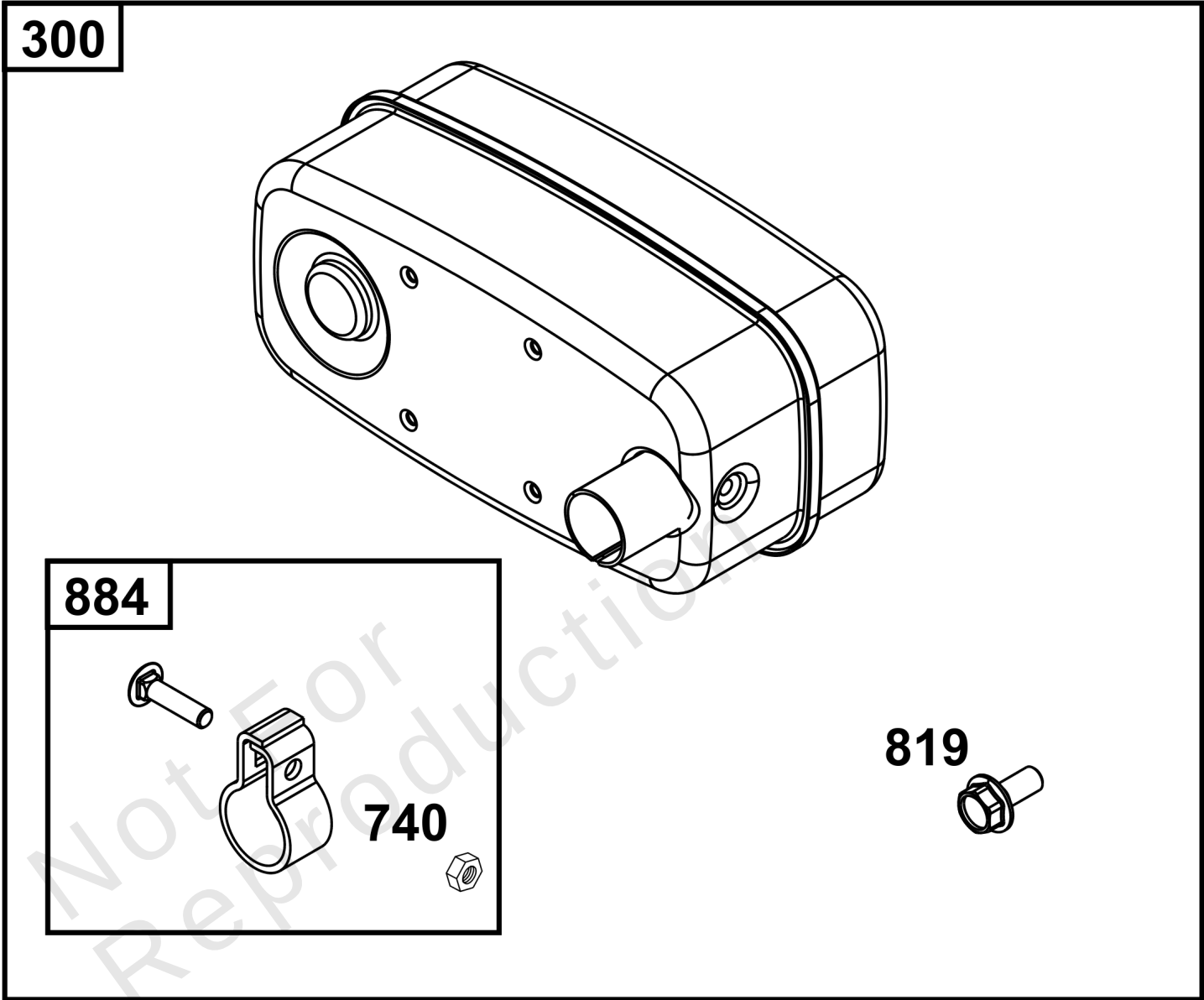
Model 29, 30, 35 & 38 Engine Accessories Catalog



Starter Motor Side Outlet Manifolds

REF NO	PART NO	QTY	DESCRIPTION
436	691502	1	MANIFOLD, Exhaust -(Horizontal: 3054, 3564)
436A	691499	1	MANIFOLD, Exhaust -(Horizontal: 3054, 3564)
436B	808909	1	MANIFOLD, Exhaust -(Horizontal: 3854, 3864) (Vertical: 3867)
882	692074	2	FLANGE, Exhaust

Not For Reproduction



Mufflers

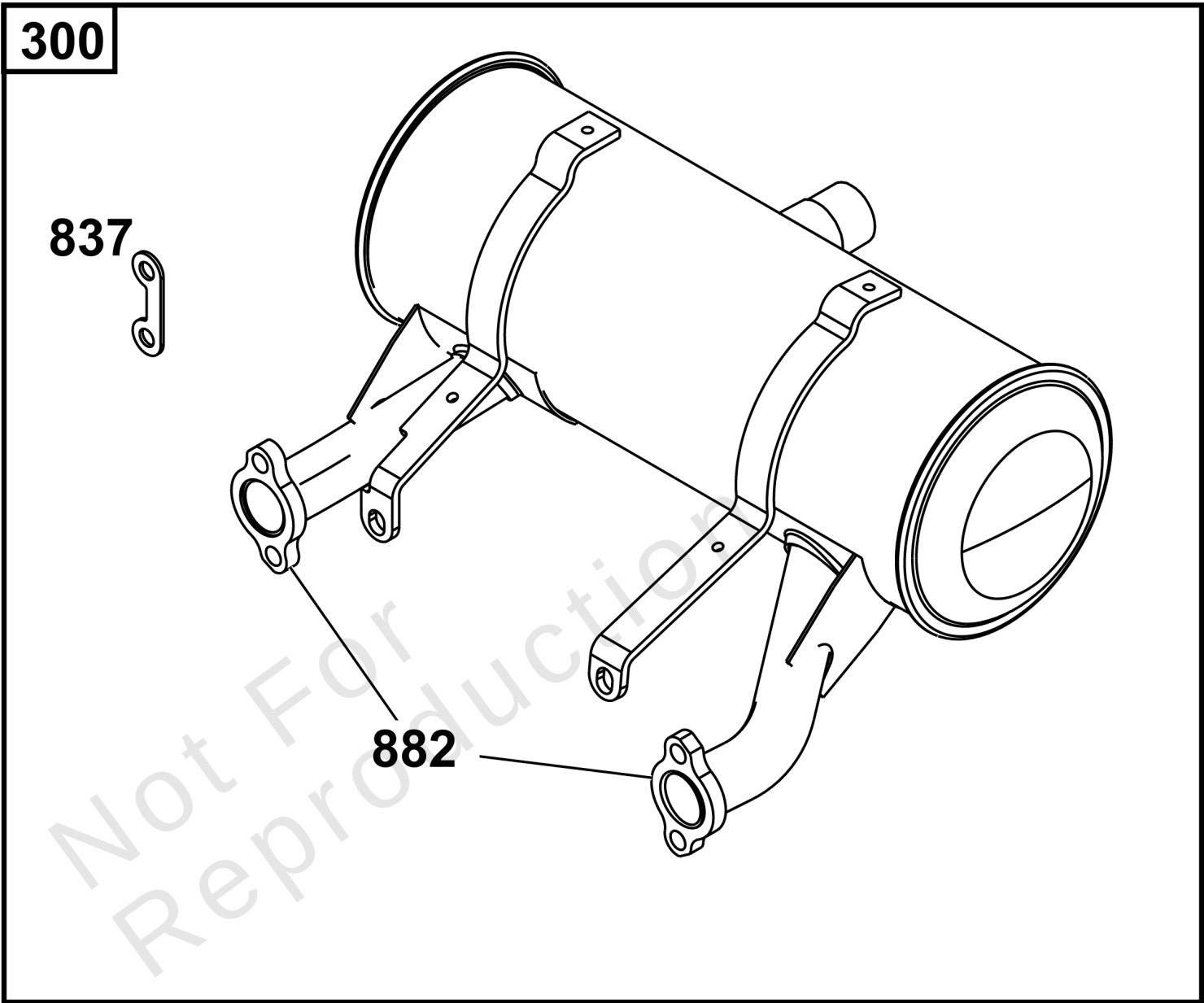
REF NO	PART NO	QTY	DESCRIPTION
300	995018	1	MUFFLER -(Inlet I.D. 1.14" (28.9mm))
740	793859	1	NUT
819	807084	4	SCREW
884	691956	1	CLAMP, Muffler

Not For Reproduction

Center Outlet Mufflers

Note: Unless noted otherwise, use the standard torque specifications

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Center Outlet Mufflers

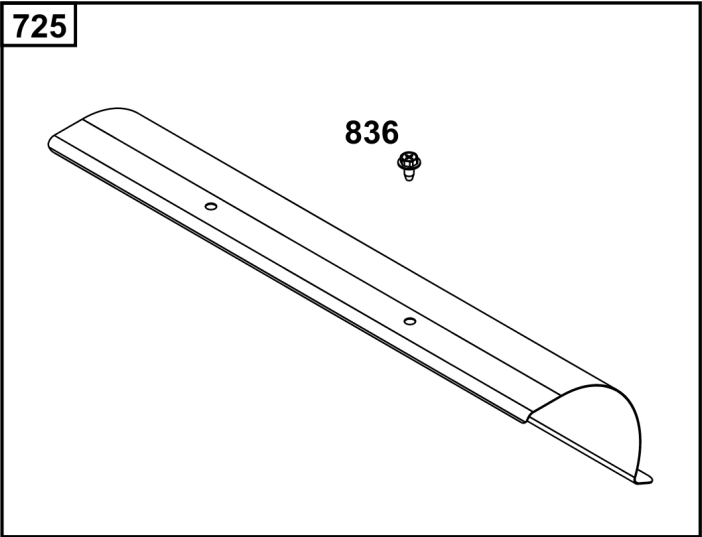
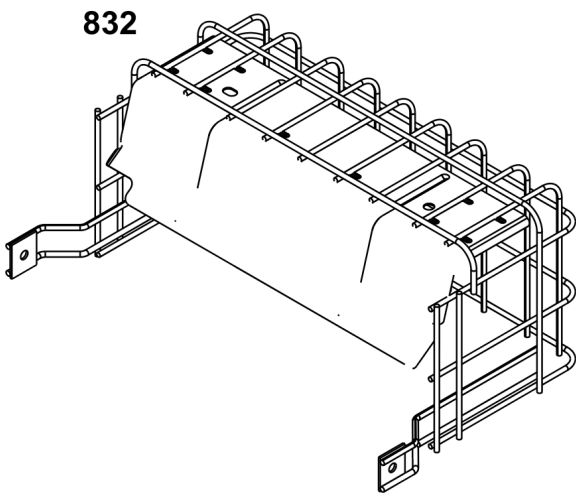
REF NO	PART NO	QTY	DESCRIPTION
300	808911	1	MUFFLER -(5" Round) (Horizontal: 3854, 3864)
837	808085	2	SPACER, Muffler
882	806965	2	FLANGE, Exhaust

Not For Reproduction

Muffler Guards and Shields

Note: Unless noted otherwise, use the standard torque specifications

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Not For
Reproduction

Muffler Guards and Shields

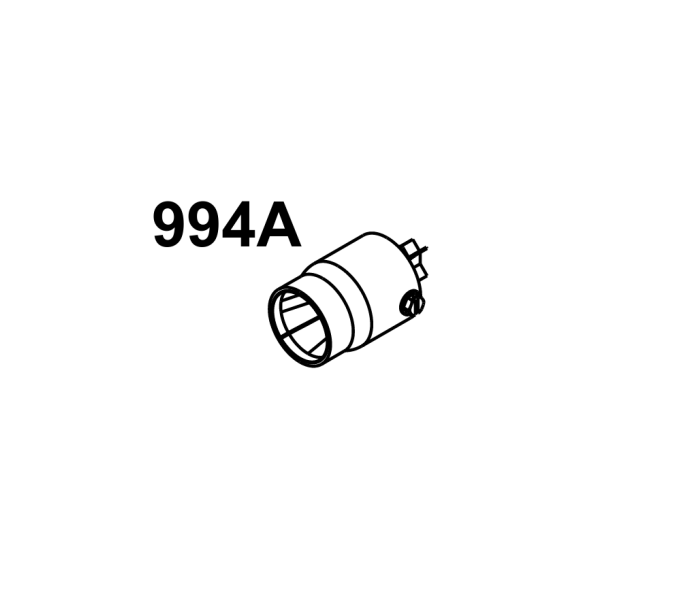
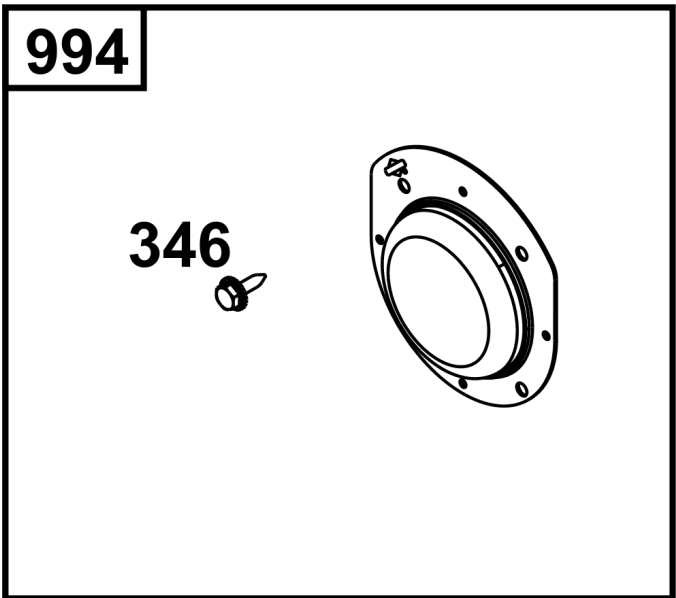
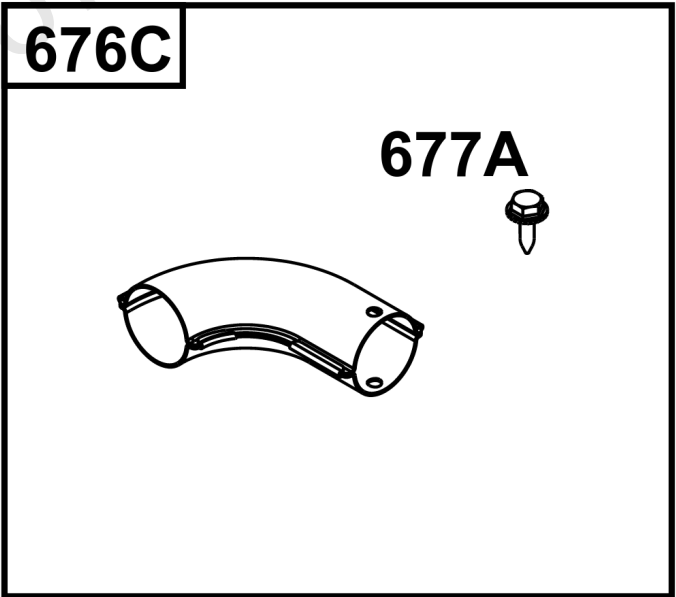
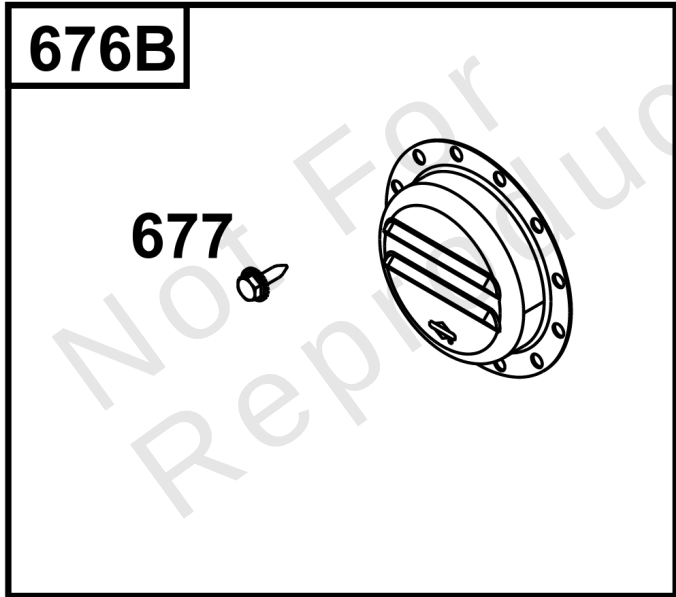
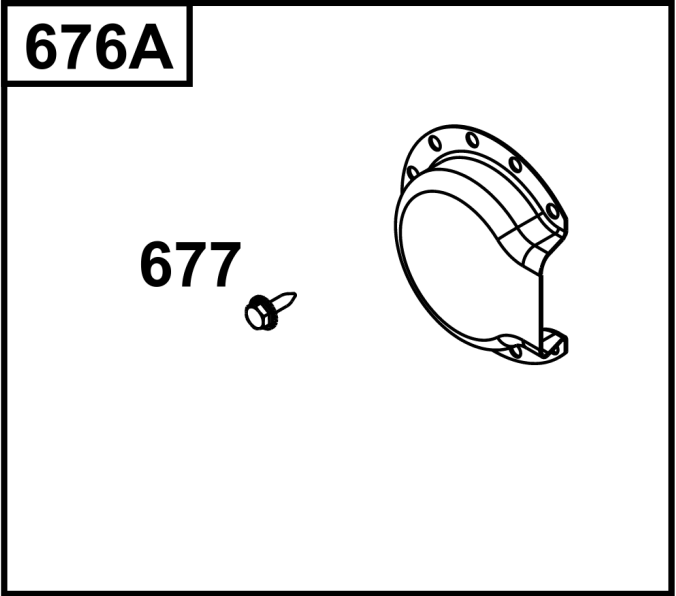
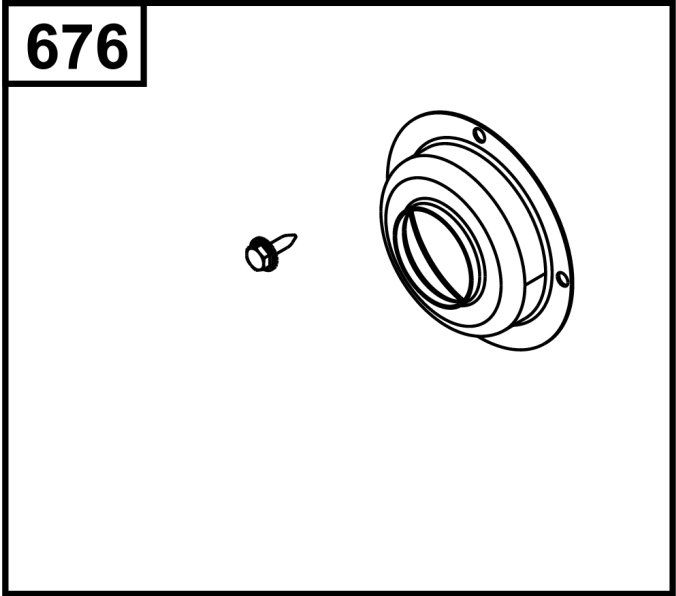
REF NO	PART NO	QTY	DESCRIPTION
725	846568	1	SHIELD, Heat -(For 5" Round Mufflers) (Horizontal: 3854, 3864)
832	691571	1	GUARD, Muffler -(Assembly for 690906 & 691562) (Horizontal: 3054, 3564)
836	692067	4	SCREW

Not For Reproduction

Spark Arrestors and Deflectors

Note: Unless noted otherwise, use the standard torque specifications

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Spark Arrestors and Deflectors

REF NO	PART NO	QTY	DESCRIPTION
346	794845	4	SCREW -(Spark Arrestor)
676	396903	1	DEFLECTOR, Muffler -(Direct Outlet) (Face Mounting with 4 Screws)
676A	795036	1	DEFLECTOR, Muffler -(Deflector 90 Degree) (Face Mounting with 4 Screws)
676B	795038	1	DEFLECTOR, Muffler -(Deflector Louvered) (Face Mounting with 4 Screws)
676C	495518	1	DEFLECTOR, Muffler -(Elbow for Muffler Assembly) (For Exit Pipe O.D. of 1.10" (28mm))
677	794845	4	SCREW -(Muffler Deflector)
677A	810079	1	SCREW -(Muffler Deflector)
994	794945	1	ARRESTOR, Spark -(Spark Arrestor) (Face Mounting with 4 Screws)
994A	594562	1	ARRESTOR, Spark -(Spark Arrestor) (For Exit Pipe O.D. of 1.10" (28mm))

Muffler Mounting Hardware

Note: Unless noted otherwise, use the standard torque specifications

Model 29, 30, 35 & 38 Engine Accessories Catalog

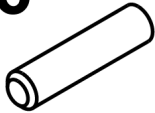
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1177



296



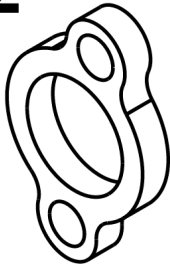
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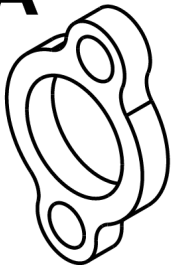
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882



882A



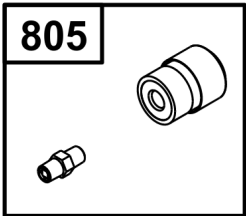
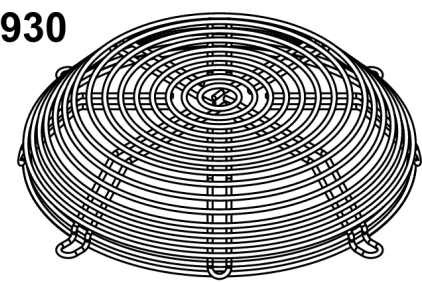
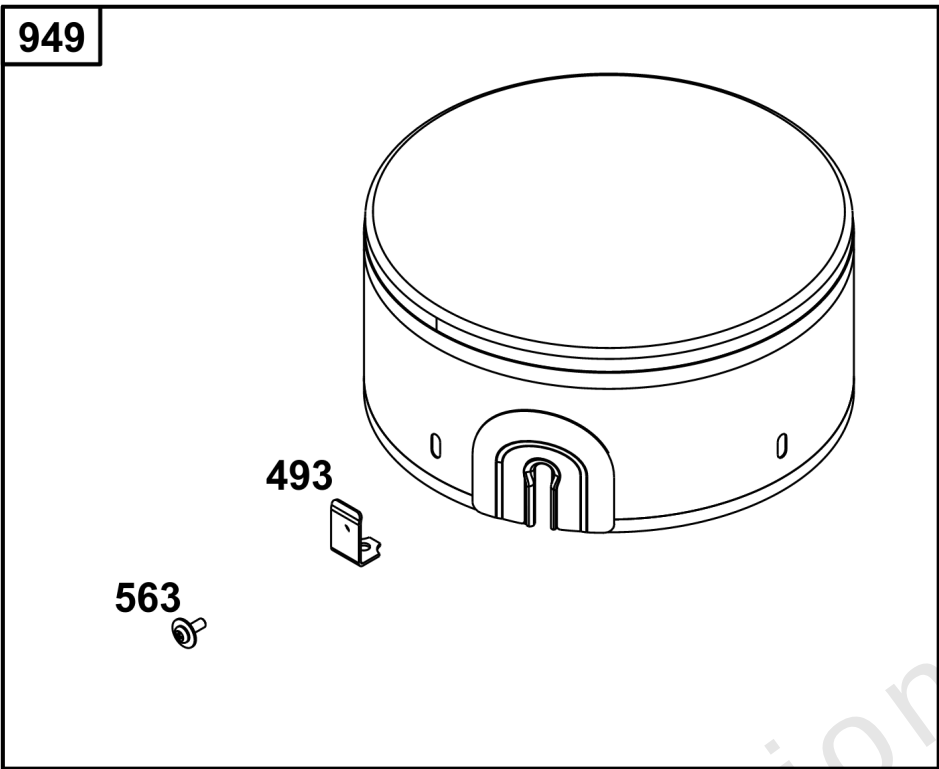
Muffler Mounting Hardware

REF NO	PART NO	QTY	DESCRIPTION
296	841185	4	STUD -(Mounting Mufflers)
613	691902	4	SCREW -(Mounting Mufflers)
882	692074	2	FLANGE, Exhaust -(3054 & 3564)
882A	806965	2	FLANGE, Exhaust -(3854 & 3864)
883	806425	2	GASKET, Exhaust -(Horizontal: 3854, 3864) (Vertical: 3567)
883A	691613	2	GASKET, Exhaust -(Horizontal: 3054, 3564) (Vertical: 3567)
1177	842067	4	NUT -(Required if Using 841185)

Flywheel and Air Intake Guards

Note: Unless noted otherwise, use the standard torque specifications

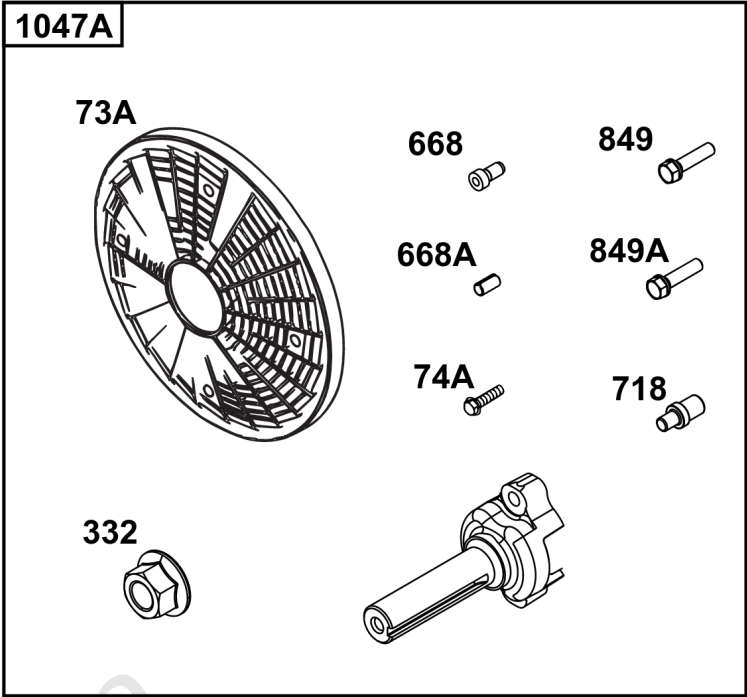
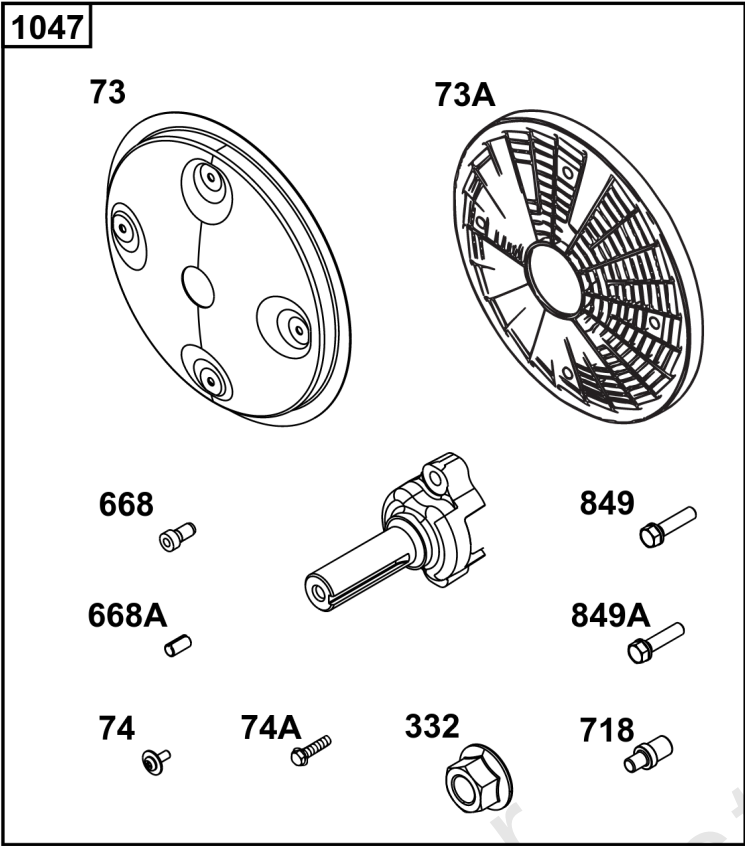
Model 29, 30, 35 & 38 Engine Accessories Catalog



Flywheel and Air Intake Guards

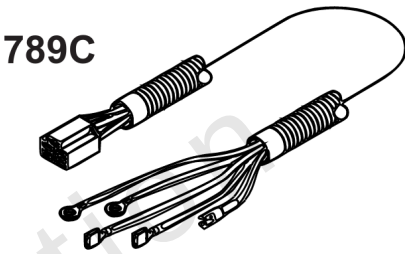
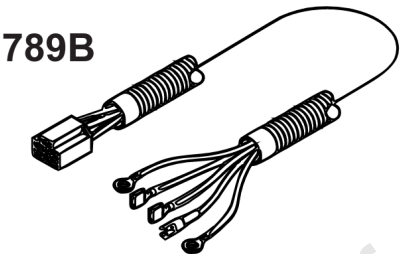
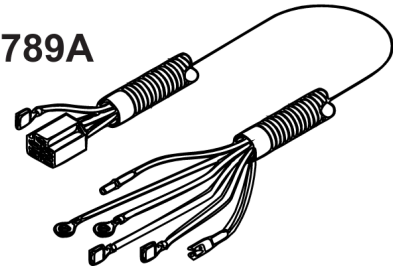
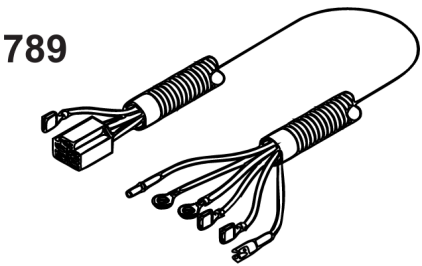
REF NO	PART NO	QTY	DESCRIPTION
493	845729	4	BRACKET, Mounting
563	841441	4	SCREW
805	843024	1	MINDER, Filter -(For Engines with Cyclonic Air Filter)
930	846284	1	GUARD, Flywheel Fan
949	845728	1	GUARD, Debris Screen -(Vertical: 3867)

Not For Reproduction



PTO

REF NO	PART NO	QTY	DESCRIPTION
73	841582	1	SCREEN, Rotating
73A	494439	1	SCREEN, Rotating
74	841441	4	SCREW -(Rotating Screen)
74A	691647	4	SCREW -(Rotating Screen)
332	690887	1	NUT -(Flywheel)
668	691500	4	SPACER -(Rotating Screen)
668A	691215	4	SPACER -(Rotating Screen)
718	841581	1	PIN, Locating -(32MM)
849	691088	2	SCREW -(Stub Shaft)
849A	846236	2	SCREW -(Stub Shaft)
1047	841580	1	SHAFT, Stub -(1" Diameter) (4.75" Length)
1047A	842655	1	SHAFT, Stub -(1" Diameter) (5.43" Length)



578



A wiring harness with a multi-pin connector on one end and a bundle of ten individual wires on the other. The wires are color-coded: orange, light orange, black, purple, blue, green, yellow, red, yellow, black, and grey.

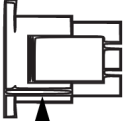


Diagram of a loose connector housing with an arrow pointing to the connector housing.

LOOSE CONNECTOR:
TE # 1-480704-0
MATE-N-LOK 6 POSITION HOUSING

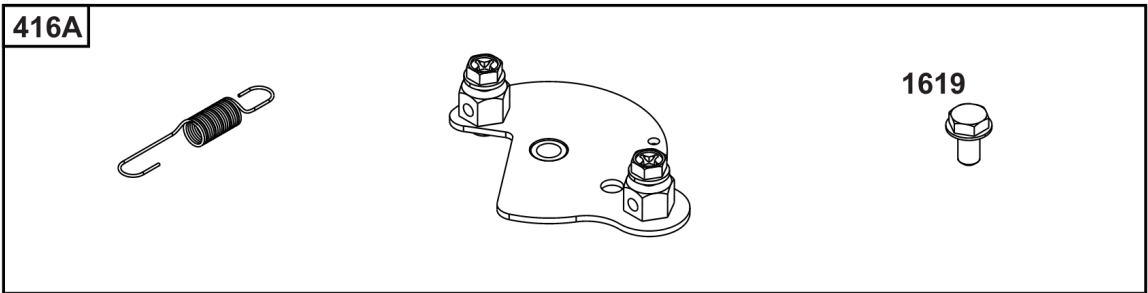
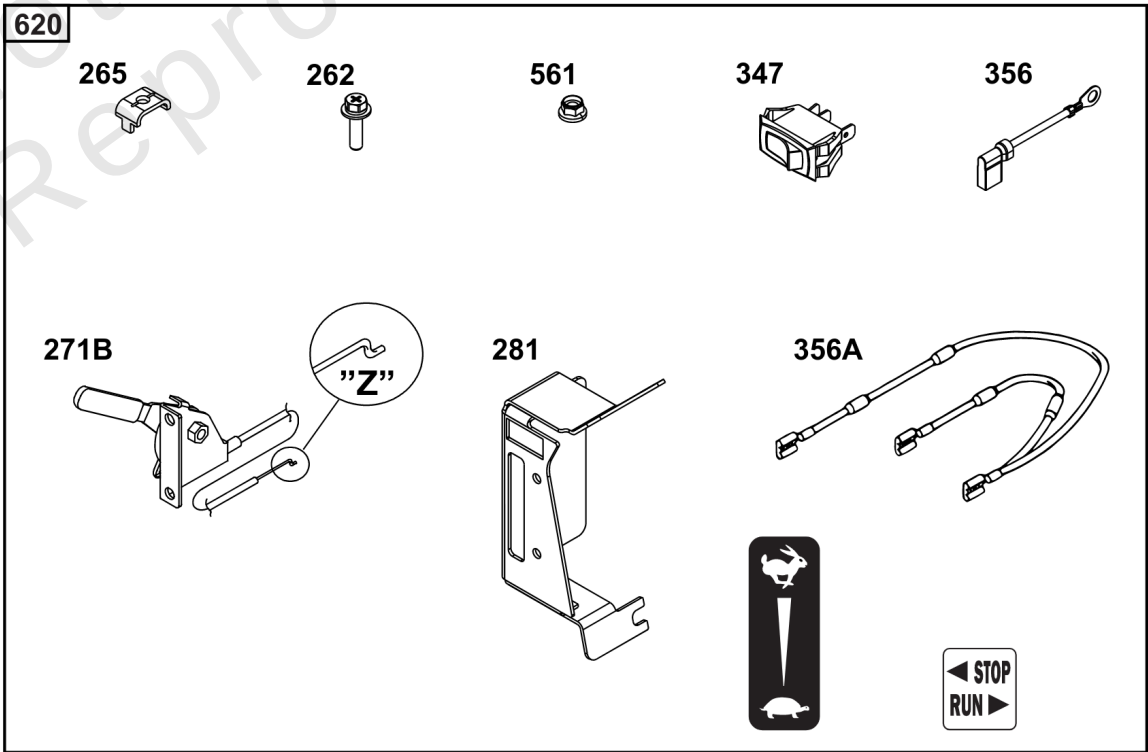
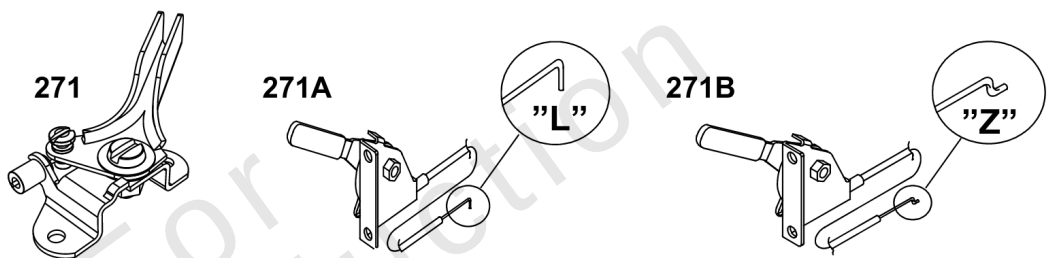
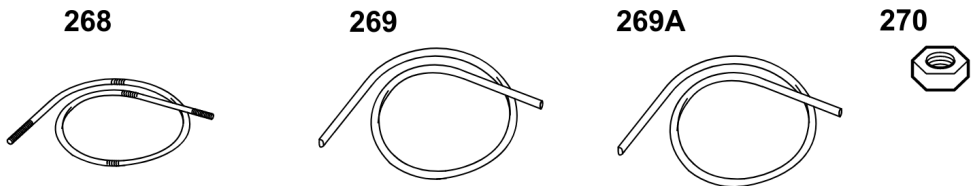
Electrical

REF NO	PART NO	QTY	DESCRIPTION
415	1714480SM	1	PLUG -(Plug for Ignition Switch Removal)
578	84007350	1	WIRE ASSEMBLY -(Aids in Repowering Engine Application with 6-Pin Connector and Wires with Terminals to Create Custom Adapter Configurations)
789	691996	1	HARNESS, Wiring -(For 16 Amp Alternators)
789A	841318	1	HARNESS, Wiring -(For 16 Amp Alternators with Solenoid Shift Starter)
789B	847601	1	HARNESS, Wiring -(For 20 Amp Alternators)
789C	847602	1	HARNESS, Wiring -(For 20 Amp Alternators with Solenoid Shift Starter)

Speed Control

Note: Unless noted otherwise, use the standard torque specifications

Model 29, 30, 35 & 38 Engine Accessories Catalog



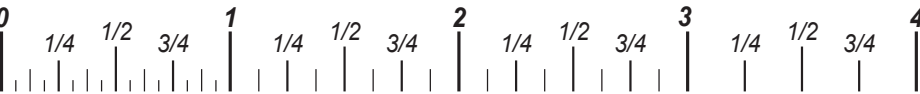
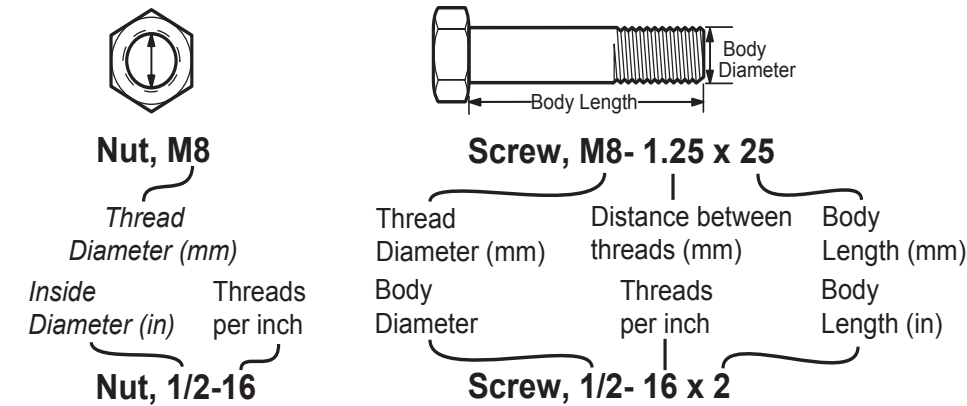
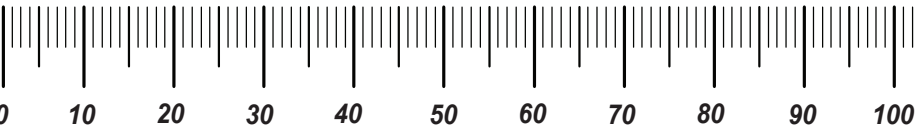
Speed Control

REF NO	PART NO	QTY	DESCRIPTION
262	841552	1	SCREW
265	691024	1	CLAMP, Casing -(Casing Clamp for Hard Casing)
265A	690798	1	CLAMP, Casing -(Casing Clamp for Soft Casing)
267	792629	1	SCREW -(Screw for Casing Clamp)
268	691025	1	CASING, Control Wire -(Wire Casing 72")
269	26634	1	WIRE, Control -(Control Wire 78")
269A	93907	1	WIRE, Control -(Control Wire 100")
270	691027	1	NUT -(Nut for Wire Casing)
271	691028	1	LEVER, Control -(Speed Control Lever Assembly)
271A	692105	1	LEVER, Control -(Speed Control Lever Assembly) ('L' Shaped End)
271B	692541	1	LEVER, Control -(Speed Control Lever Assembly) ('Z' Shaped End)
281	690742	1	PANEL, Control
347	691995	1	SWITCH-ROCKER
356	690796	1	WIRE, Stop
356A	691999	1	WIRE ASSEMBLY
416	595196	1	BRACKET, Throttle Cable -(Casing Clamp for Snap-In Casing)
416A	84006945	1	BRACKET, Throttle Cable
561	806447	1	NUT
620	494052	1	BRACKET, Control -(Throttle Control for Vanguard V-Twin Horizontal Small Block)
1619	691693	1	SCREW

Hardware Identification & Torque Specifications

Torque Specification Chart								
FOR STANDARD METRIC MACHINE HARDWARE (Tolerance ± 20%)								
Property Class	 Class 5.6		 Class 8.8		 Class 10.9		 Class 12.9	
Size Of Hardware	in/lbs ft/lbs	Nm.	in/lbs ft/lbs	Nm.	in/lbs ft/lbs	Nm.	in/lbs ft/lbs	Nm.
M3	5.88	.56	13.44	1.28	19.2	1.80	22.92	2.15
M4	13.44	1.28	30.72	2.90	43.44	4.10	52.56	4.95
M5	26.4	2.50	60.96	5.75	5.97	8.10	7.15	9.7
M6	44.64	4.3	7.3	9.9	10.3	14	12.1	16.5
M7	5.2	7.1	12.1	16.5	16.9	23	19.9	27
M8	7.7	10.5	17.7	24	25	34	29	40
M10	15	21	35	48	50	67	59	81
M12	26	36	61	83	86.2	117	103	140
M14	42	58	101	132	136	185	162	220
M16	64	88	147	200	210	285	250	340
M18	89	121	202	275	287	390	346	470
M20	126	171	290	390	405	550	486	660
M22	169	230	390	530	559	745	656	890
M24	217	295	497	375	708	960	840	1140
M27	320	435	733	995	1032	1400	1239	1680
M30	435	590	995	1350	1401	1900	1681	2280
M33	590	800	1349	1830	1902	2580	2278	3090
M36	759	1030	1740	2360	2441	3310	2935	3980
M39	988	1340	2249	3050	3163	4290	3798	5150

The guides and ruler furnished below are designed to help you select the appropriate hardware.



Standard Hardware Sizing

When a washer or nut is identified as 1/2" (M8), this is the *Nominal size*, meaning the *inside diameter* is 1/2 inch (8mm metric thread diameter); if a second number is present it represents the *threads per inch* (distance between threads).

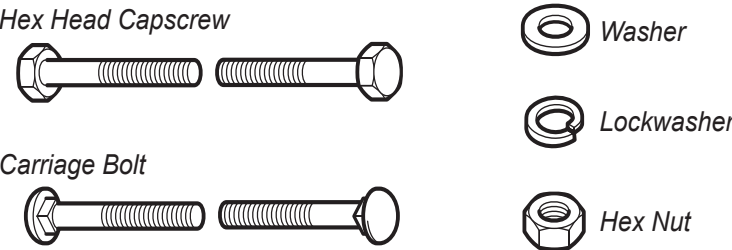
When bolt or capscrew is identified as 1/2 - 16 x 2" (M8 - 1.25 x 50), this means the *Nominal size*, or body diameter is 1/2 inch (8mm metric thread diameter), the second number, 16, represents the *threads per inch*, (*distance between threads*). The final number is the body length of the bolt or screw, 2 inches (50mm).

Torque Specification Chart						
FOR STANDARD MACHINE HARDWARE (Tolerance ± 20%)						
Hardware Grade	 SAE Grade 2		 SAE Grade 5		 SAE Grade 8	
Size Of Hardware	in/lbs ft/lbs	Nm.	in/lbs ft/lbs	Nm.	in/lbs ft/lbs	Nm.
8-32	19	2.1	30	3.4	41	4.6
8-36	20	2.3	31	3.5	43	4.9
10-24	27	3.1	43	4.9	60	6.8
10-32	31	3.5	49	5.5	68	7.7
1/4-20	66	7.6	8	10.9	12	16.3
1/4-28	76	8.6	10	13.6	14	19.0
5/16-18	11	15.0	17	23.1	25	34.0
5/16-24	12	16.3	19	25.8	29	34.0
3/8-16	20	27.2	30	40.8	45	61.2
3/8-24	23	31.3	35	47.6	50	68.0
7/16-14	30	40.8	50	68.0	70	95.2
7/16-20	35	47.6	55	74.8	80	108.8
1/2-13	50	68.0	75	102.0	110	149.6
1/2-20	55	74.8	90	122.4	120	163.2
9/16-12	65	88.4	110	149.6	150	204.0
9/16-18	75	102.0	120	163.2	170	231.2
5/8-11	90	122.4	150	204.0	220	299.2
5/8-18	100	136	180	244.8	240	326.4
3/4-10	160	217.6	260	353.6	386	525.0
3/4-16	180	244.8	300	408.0	420	571.2
7/8-9	140	190.4	400	544.0	600	816.0
7/8-14	155	210.8	440	598.4	660	897.6
1-8	220	299.2	580	788.8	900	1,244.0
1-12	240	326.4	640	870.4	1,000	1,360.0

NOTES

- These torque values are to be used for all hardware excluding: locknuts, self-tapping screws, thread forming screws, sheet metal screws and socket head setscrews.
- Recommended seating torque values for locknuts:
 - for prevailing torque locknuts - use 65% of grade 5 torques.
 - for flange whizlock nuts and screws - use 135% of grade 5 torques.
- Unless otherwise noted on assembly drawings, all torque values must meet this specification.

Common Hardware Types



Wrench & Fastener Size Guide

 1/4" Bolt or Nut Wrench—7/16"	 5/16" Bolt or Nut Wrench—1/2"	 3/8" Bolt or Nut Wrench—9/16"	 7/16" Bolt or Nut Wrench (Bolt)—5/8" Wrench (Nut)—11/16"	 1/2" Bolt or Nut Wrench—3/4"
M6 Bolt or Nut Wrench—10mm	M8 Bolt or Nut Wrench—13mm	M10 Bolt or Nut Wrench—17mm	M12 Bolt or Nut Wrench—19mm	M14 Bolt or Nut Wrench—22mm

