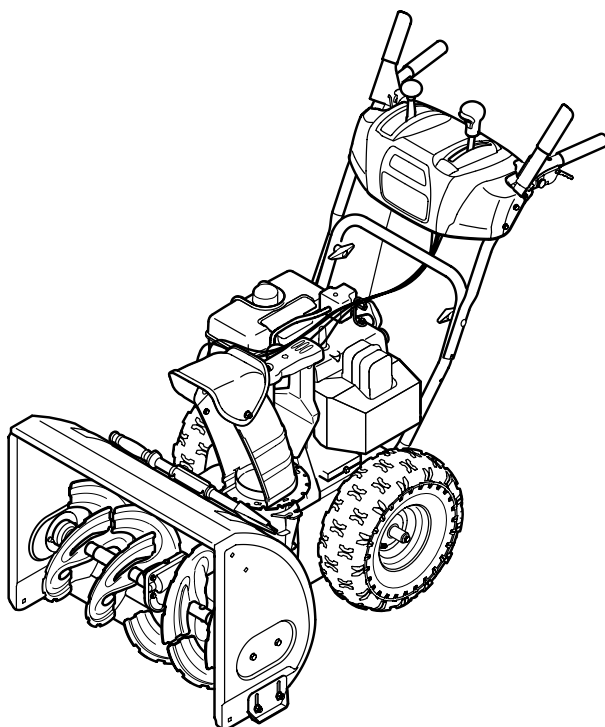
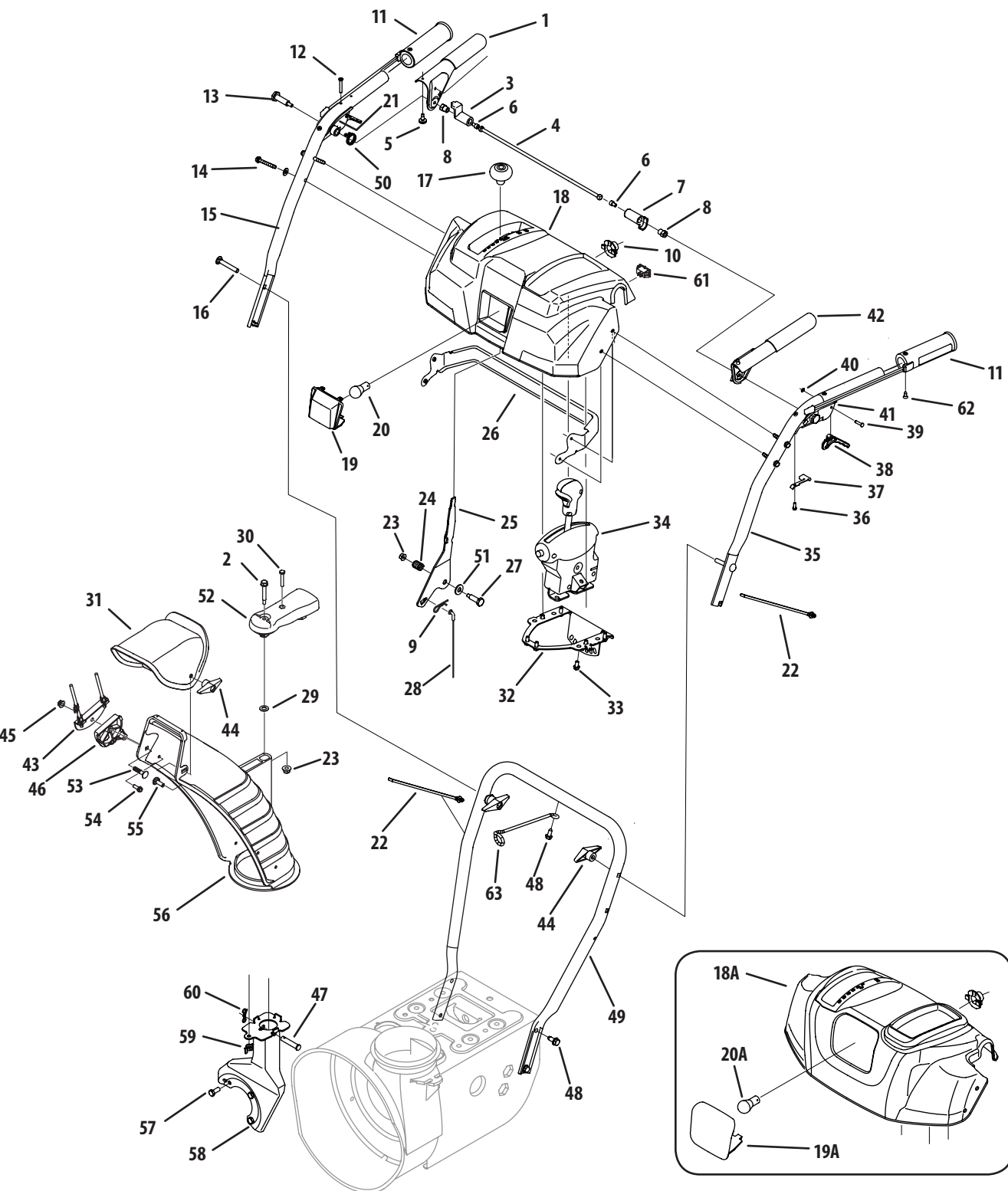

ILLUSTRATED PARTS MANUAL



500 Series Snow Thrower — L & Q Style

MTD LLC, P.O. BOX 361131 CLEVELAND, OHIO 44136-0019

L & Q-Style Handle, Frame & Discharge Chute

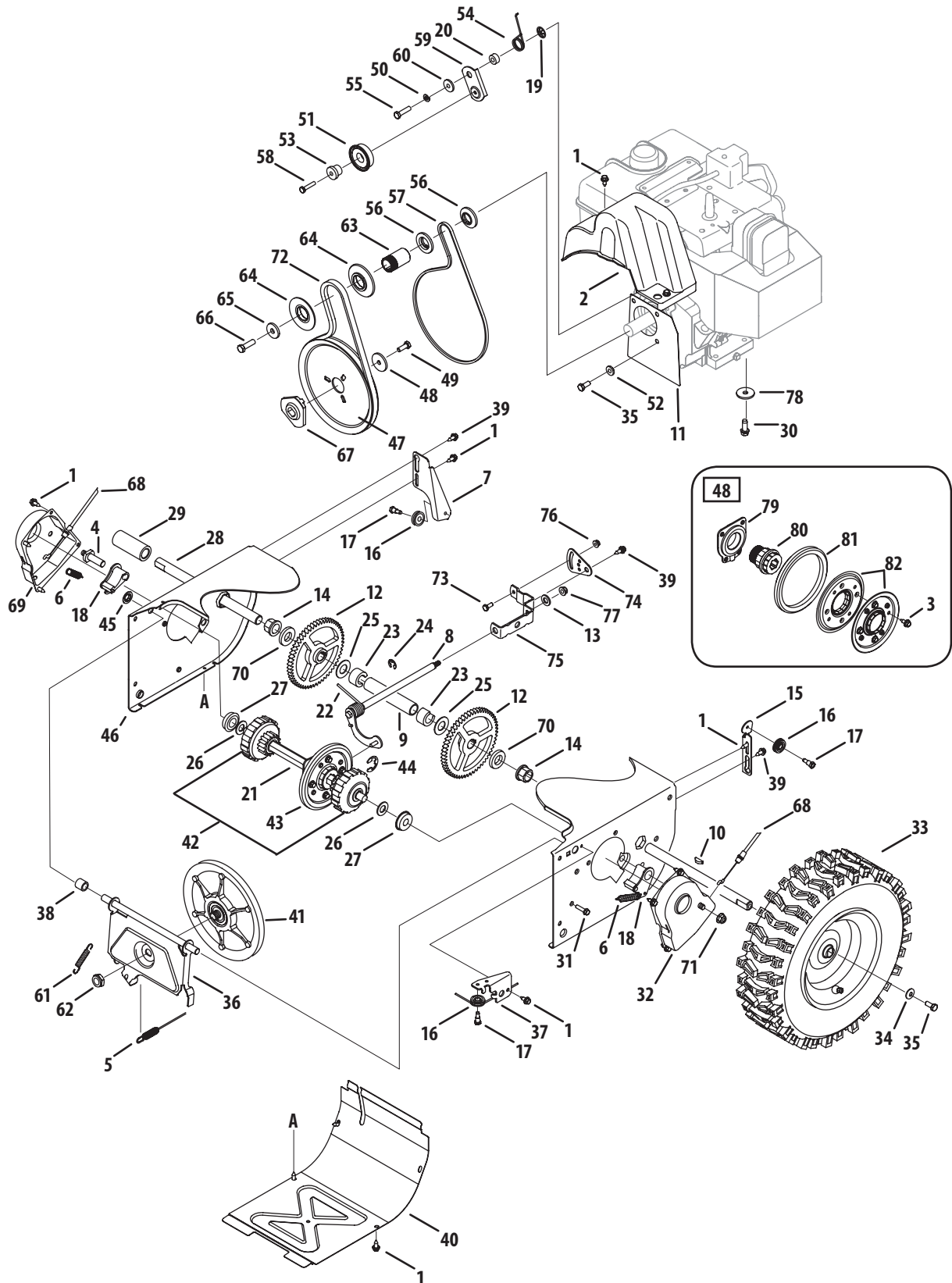


L & Q-Style Handle, Frame & Discharge Chute

Ref.	Part Number	Description
1.	684-04106B	Handle Engagement Assembly RH
2.	738-04194	Flange Shoulder Screw
3.	731-04894D	Lock Plate
4.	684-04250	Pivot Rod
5.	735-0199A	Rubber Bumper
6.	710-3069	Socket Screw, 1/4-20 x .5
7.	731-04896B	Clutch Lock Cam
8.	712-04081A	Shoulder Nut, 1/4-20
9.	714-0145	Click Pin
10.	725-1649	Light Socket
11.	725-1757	Heated Handle Grip
12.	710-1233	Screw, #10-24 x 0.375
13.	738-04348	Shoulder Screw, 1/4-20 x .437 x 1.345
14.	710-04596	Screw, 1/4-20 x 1.625
15.	749-04190A	Upper Handle RH
16.	710-0449	Carriage Screw, 5/16-18 x 2.25
17.	720-04039	Shift Knob
18.	631-04181	Q-Style Handle Panel (Includes Ref. #19)
18A	631-04186	L-Style Handle Panel (Includes Ref. #19A)
19.	731-05319	Q-Style Lens
19A	731-05320	L-Style Lens
20.	725-1629	Lamp
20A	725-04123	Lamp
21.	631-04134B	Handle Clutch Lock - RH
22.	725-0157	Cable Tie
23.	712-04064	Flange Lock Nut, 1/4-20
24.	732-0193	Compression Spring
25.	790-00311	Shift Lever
26.	790-00248B	Panel Bracket
27.	738-04125	Shoulder Screw
28.	746-04396	Speed Selector Cable
29.	736-0463	Flat Washer, .25 x .630 x .0515
30.	710-0606	Screw, #10-16 x .500
31.	731-04427A	Upper Chute

Ref.	Part Number	Description
32.	790-00131A	Joystick Bracket
33.	710-04187	Hi-Lo Screw, 1/4-15 x 0.5
34.	684-04331	4-Way Tall Chute Control™ Assembly
35.	749-04191A	Upper Handle LH
36.	710-04326	Screw, #8-16 x 0.50
37.	732-04219C	Clutch Lock Spring
38.	731-04913	Steering Control
39.	738-04126	Pin, 3/16
40.	716-04036	E Ring
41.	631-04133A	Handle Clutch Lock - LH
42.	684-04105B	Handle Engagement Assembly LH
43.	784-5594	Cable Bracket
44.	710-0284	Wing Knob
45.	712-04063	Flange Lock Nut, 5/16-18
46.	731-06451	Chute Tilt Cable Guide
47.	711-04469A	Clevis Pin
48.	710-04484	Hex Screw
49.	749-04138A	Lower Handle
50.	732-04238	Torsion Spring
51.	736-0267	Flat Washer
52.	731-04890A	Joystick Pulley Cover
53.	710-0262	Carriage Bolt, 5/16-18 x 1.50
54.	710-0895	Hi-Lo Screw, 1/4-15 x .75
55.	710-04071	Carriage Bolt, 5/16-18 x 1.0
56.	731-06440	Lower Chute
57.	710-0627	Hex Screw, 5/16-24 x .750
58.	684-041311	Chute Support Bracket
59.	712-3087	Wing Nut, 1/4-20
60.	714-04040	Bow Tie Cotter Pin
61.	725-04393	Heated Grip Switch
62.	710-0837	AB Screw
63.	747-04784	Cable Guide
—	724-04216A	Wire Harness (not Shown)

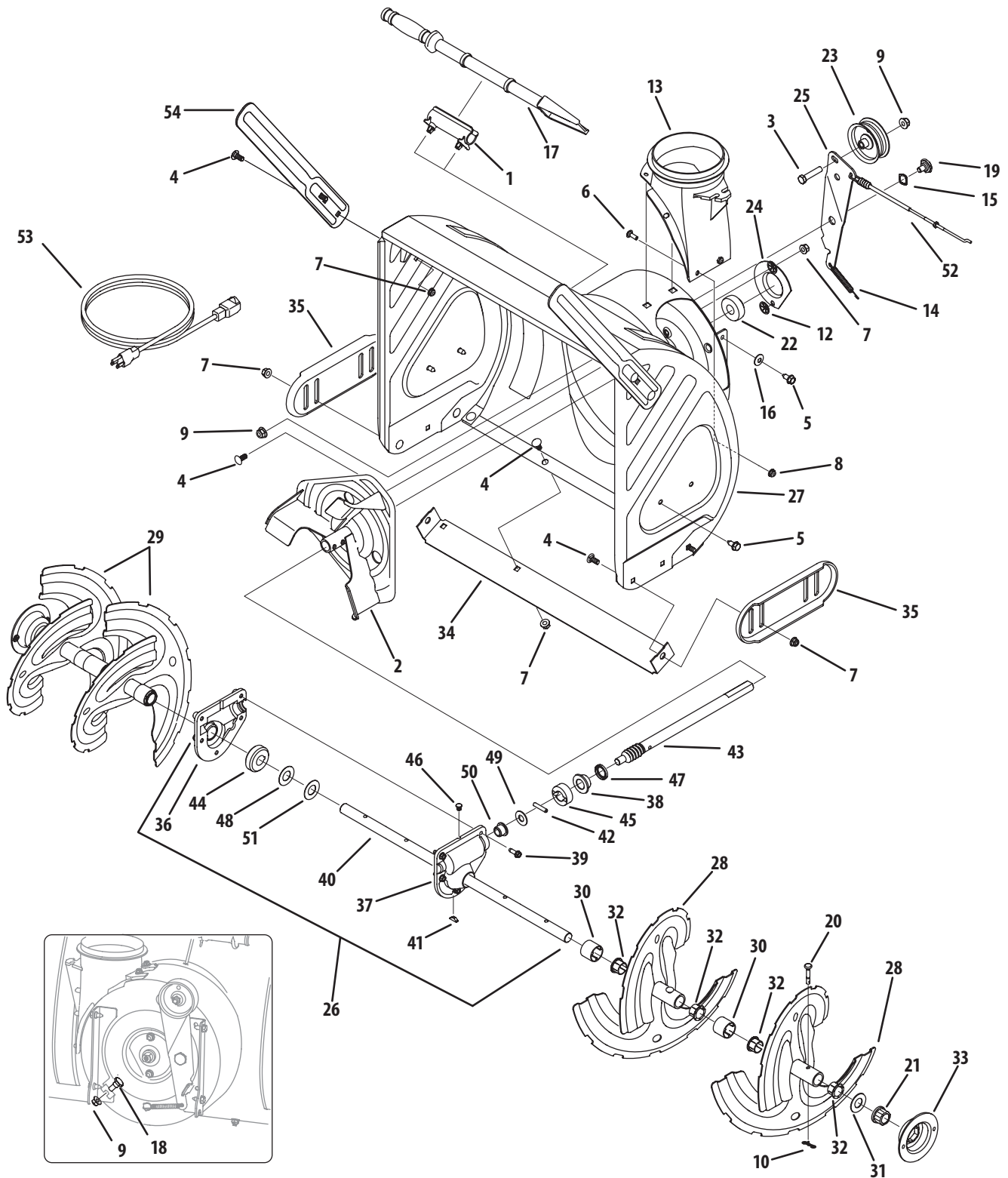
Drive System



Ref.	Part Number	Description
1.	710-1652	AB Screw, 1/4-20 x 0.625
2.	731-05353	Belt Cover
3.	710-0896	AB Screw
4.	711-1268B	Actuator Shaft
5.	746-04229	Drive Clutch Cable
6.	732-04345	Extension Spring
7.	790-00207B	Drive Clutch Cable Guide Bracket
8.	684-04156A	Shift Rod Assembly
9.	750-04474	Axle Support Tube
10.	714-0126	Hi-pro Key
11.	790-00289A	Cover Plate
12.	717-04210	Gear, 56T
13.	736-3015	Flat Washer
14.	741-0245	Hex Flange Bearing
15.	790-00206A	Auger Clutch Cable Guide Bracket
16.	756-0625	Cable Roller
17.	738-0924A	C Screw, 1/4-28 x 0.375
18.	618-04288	Dogg Assembly - LH
—	618-04287	Dogg Assembly - RH
19.	726-04012	Speed Nut
20.	750-04477	Spacer
21.	711-04416	Hex Drive
22.	732-04311	Torsion Spring, .750ID x .968 Lg.
23.	731-05297	Spacer
24.	716-0104	E Ring
25.	736-0188	Flat Washer, .76 x 1.49 x .06
26.	736-0626	Flat Washer
27.	741-04076	Ball Bearing
28.	738-04180	Axle
29.	731-04873	Spacer
30.	710-0654A	TT Sems Screw, 3/8-16 x 1.0
31.	710-0788	TT Screw, 1/4-20 x 1.0
32.	790-00185	Shaft Retainer - LH
33.	634-04138	X-Trac LH, 16 x 6.5 x 8
—	634-04137	X-Trac RH, 16 x 6.5 x 8
34.	736-0242	Bell Washer
35.	710-0627	Hex Bolt, 5/16-24 x 0.75
36.	684-04154	Friction Wheel Support Brkt. Assy.
37.	790-00096	Auger Cable Guide Bracket
38.	748-0190	Spacer
39.	738-04184A	Shoulder Screw
40.	790-00316	Frame Cover

Ref.	Part Number	Description
41.	656-04025A	Friction Wheel Disc Assembly
42.	618-04283A	Drive Shaft Assembly
43.	684-04159	Friction Wheel Assembly
44.	716-0136	Retainer Ring
45.	726-0221	Speed Nut
46.	790-00183B	Wheel Drive Frame
47.	756-04109	Auger Pulley
48.	736-0505	Flat Washer
49.	710-1245B	Hex Bolt, 5/16-24 x 0.875
50.	736-0119	Lock Washer
51.	684-04169	Pulley Assembly
52.	748-0234	Shoulder Spacer
53.	750-04571	Spacer
54.	732-04308A	Torsion Spring
55.	710-0672	Hex Screw, 5/16-24 x 1.25
56.	756-04252	Pulley Half
57.	754-0367	V-Belt, 2L x 33
58.	710-0809	TT Screw, 1/4-20 x 1.25
59.	790-00208C	Drive Clutch Idler Bracket
60.	748-04112B	Shoulder Spacer
61.	732-0264	Extension Spring
62.	712-0417A	Jam Lock Nut, 5/8-18
63.	750-04303	Spacer
64.	756-04113	Pulley Half
65.	736-0247	Flat Washer
66.	710-0191	Hex Bolt, 3/8-24 x 1.25
67.	748-04053A	Pulley Adapter
68.	746-0956B	Steering Cable
69.	790-00186	Shaft Retainer - RH
70.	750-0767	Axle Spacer
71.	712-04065	Flange Lock Nut, 3/8-16
72.	754-04050	V-Belt,.500 x 35.00 Lg
73.	710-0751	Hex Screw, 1/4-20 x .620
74.	790-00217A	Speed Selector Pivot Bracket
75.	790-00218A	Speed Selector Shift Bracket
76.	712-04064	Flange Lock Nut 1/4-20
77.	712-04063	Flange Lock Nut 1/4-20
78.	736-0320	Flat Washer
79.	618-0063A	Bearing Assembly
80.	718-04144	Friction Wheel Hub
81.	735-04054	Friction Wheel Rubber
82.	790-00174	Friction Wheel Plate

Auger & Auger Housing

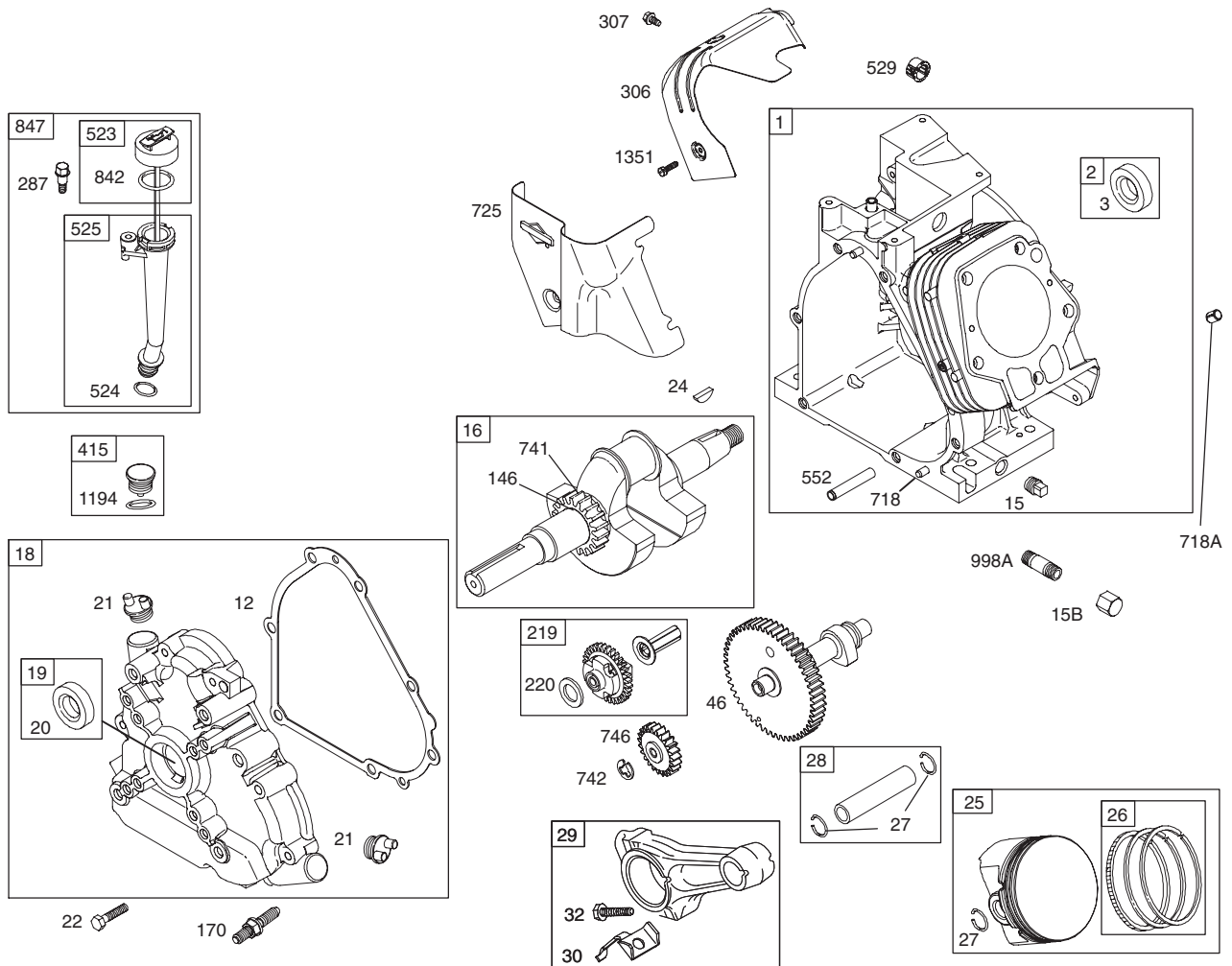


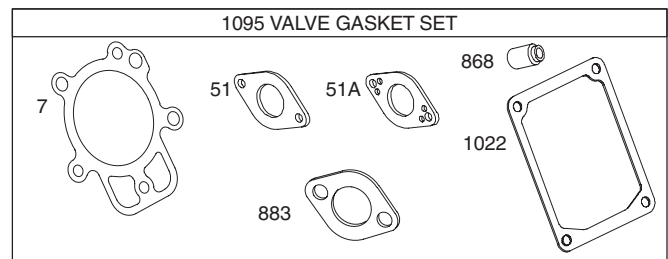
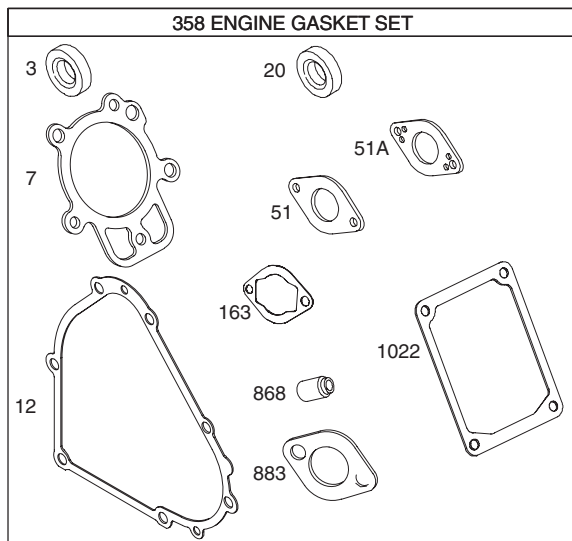
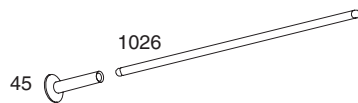
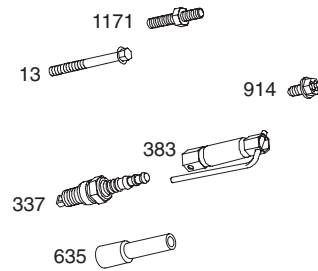
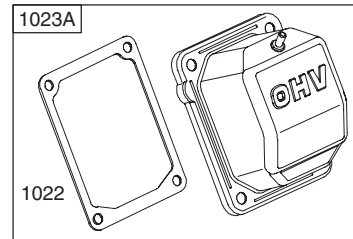
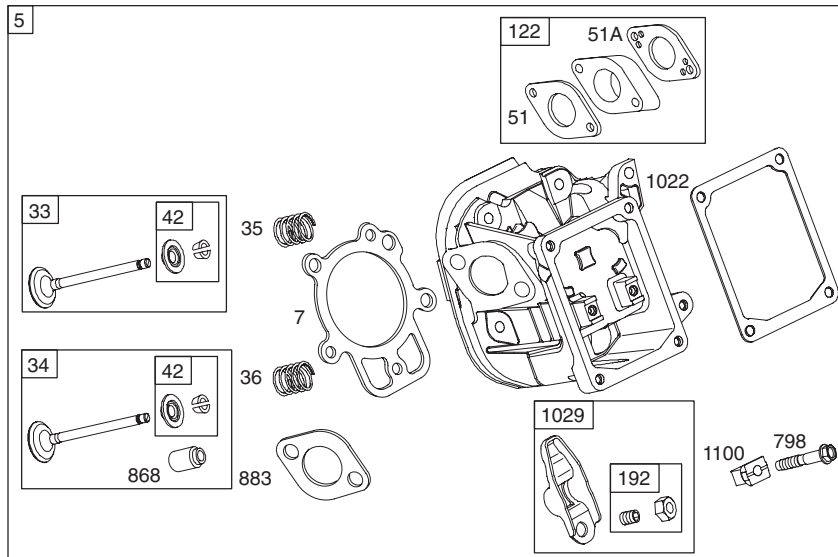
Auger & Auger Housing

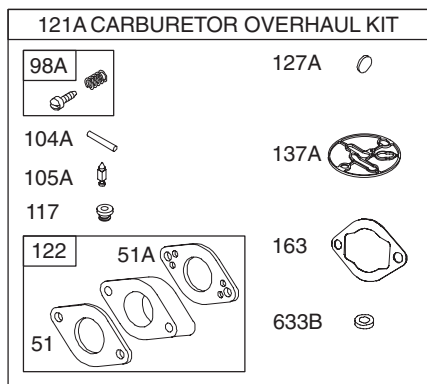
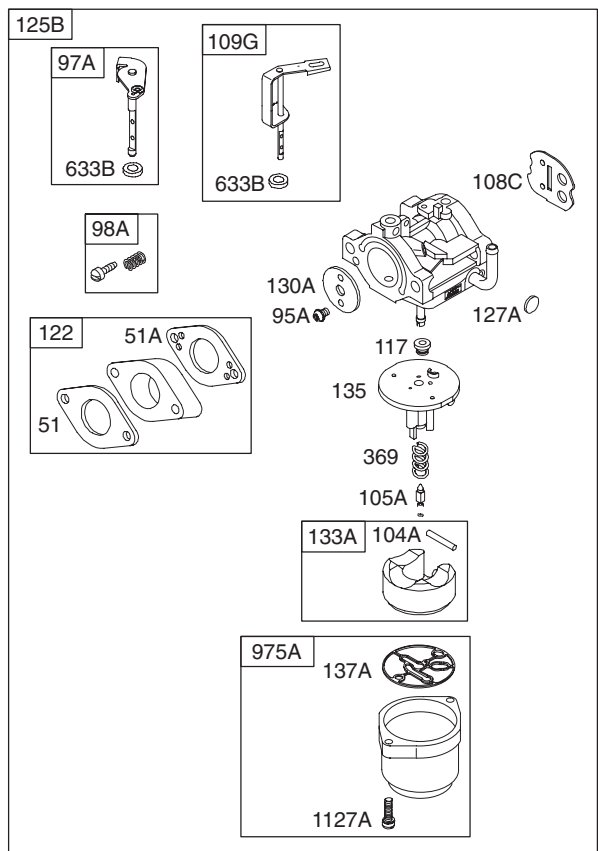
Ref.	Part Number	Description
1.	731-2635	Clean-out Tool Bracket
2.	684-04057A	Impeller Assembly, 12" Dia.
3.	710-0347	Hex Screw, 3/8-16, 1.75, Gr5
4.	710-0451	Carriage Bolt, 5/16-18, .750 Gr1
5.	710-04484	Screw, 5/16-18, 0.625
6.	710-0703	Carriage Screw, 1/4-20, .750, Gr5
7.	712-04063	Flange Lock Nut, 5/16-18, Nylon
8.	712-04064	Flange Lock Nut, 1/4-20, Nylon
9.	712-04065	Flange Lock Nut, 3/8-16, Nylon
10.	714-04040	Bow-tie Cotter Pin
11.	725-0157	Cable Tie, 3/16 x .05 x 7.4
12.	726-04012	Speed Nut
13.	731-04705C	Chute Adapter
14.	732-04460	Extension Spring, .38 OD x 3.6
15.	736-0174	Wave Washer, .625 x .885 x .015
16.	736-0242	Bell Washer, .340 x .872 x .060
17.	731-2643	Clean-out Tool
18.	738-0143	Shoulder Screw, .498 x .34, 3/8-16
19.	738-0281	Shoulder Screw, .625 x .17, 3/8-16
20.	738-04124A	Shear Pin, .25 x 1.50
21.	741-0245	Hex Flange Bearing x .75 ID
22.	741-0309	Ball Bearing, .75 ID x 1.85 OD
23.	756-0981B	Idler Pulley, 2.75 OD
24.	790-00075	Bearing Housing, 1.85 ID
25.	790-00080A	Auger Idler Bracket w/ Brake
26.	618-04165A	Auger Gearbox Assembly, 30"
27.	684-04273	Auger Housing Assembly, 30" (TB)
—	684-04267	Auger Housing Assembly, 30"

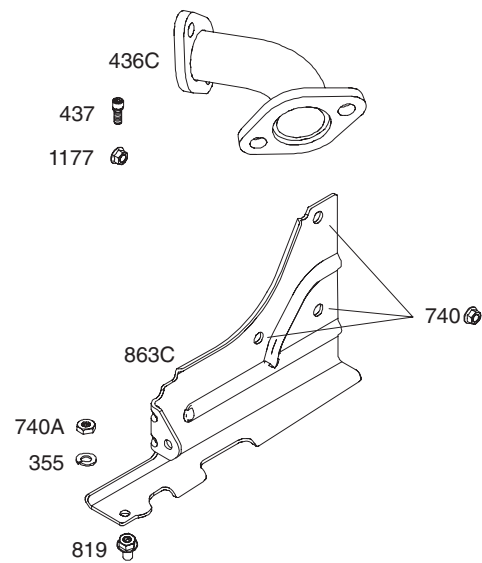
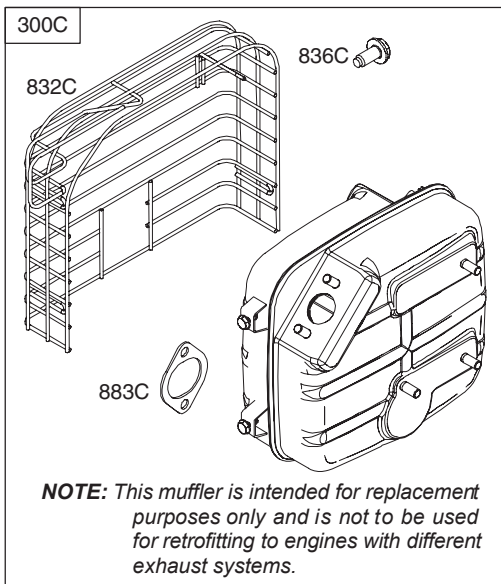
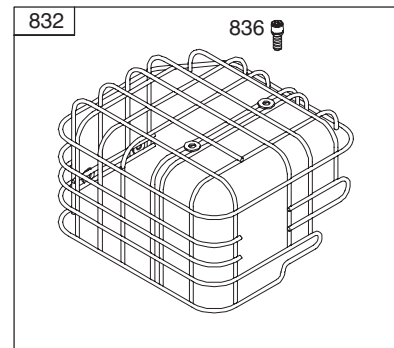
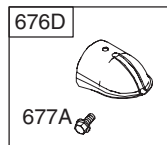
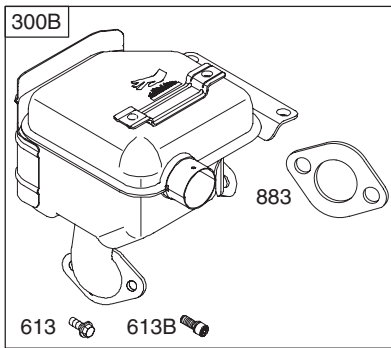
Ref.	Part Number	Description
28.	684-04107	Spiral Assembly, LH
29.	684-04108	Spiral Assembly, RH
30.	731-04870	Spacer, 1.25 OD x .75 ID x 1.00
31.	736-0188	Flat Washer, .76 x 1.49 x .06
32.	741-0493A	Flange Bushing, .80 ID x .91 OD
33.	790-00087A	1" Hex Bearing Housing
34.	790-00119	Shave Plate, 30"
35.	790-00091	Skid Shoe, Deluxe
36.	618-0124A	Auger Housing, RH Reduced
37.	618-0123A	Auger Housing, LH Reduced
38.	741-0662	Flange Bearing, .75 x 1.0 x .59
39.	710-0642	Self-tapping Screw, 1/4-20, 0.750
40.	711-04282	Auger Axle, 30"
41.	714-0161	Hi-pro Key, 3/16 x 5/8
42.	715-04021	Dowel Pin, .25 OD x 1.2
43.	717-04126	Worm Shaft, .75 OD
44.	717-0528A	Worm Gear, 20T
45.	718-04071	Thrust Collar
46.	721-0325	Plug, 1/4 x .437
47.	721-0327	Oil Seal, .75 x 1 x .131
48.	736-0351	Flat Washer, .760 ID x 1.5 OD
49.	736-3084	Flat Washer, .51 x 1.12
50.	741-0663	Flange Bearing, .75 x 1.0 x .925
51.	731-04871	Spacer, 1.25 x .75 x 3/16
52.	746-04230	Auger Clutch Cable, 47.23"
53.	629-0071	Extension Cord, 110V, 3-Prong
54.	790-00181	Blade Guide (Troy Bilt Models)

B&S 20M300 Engine

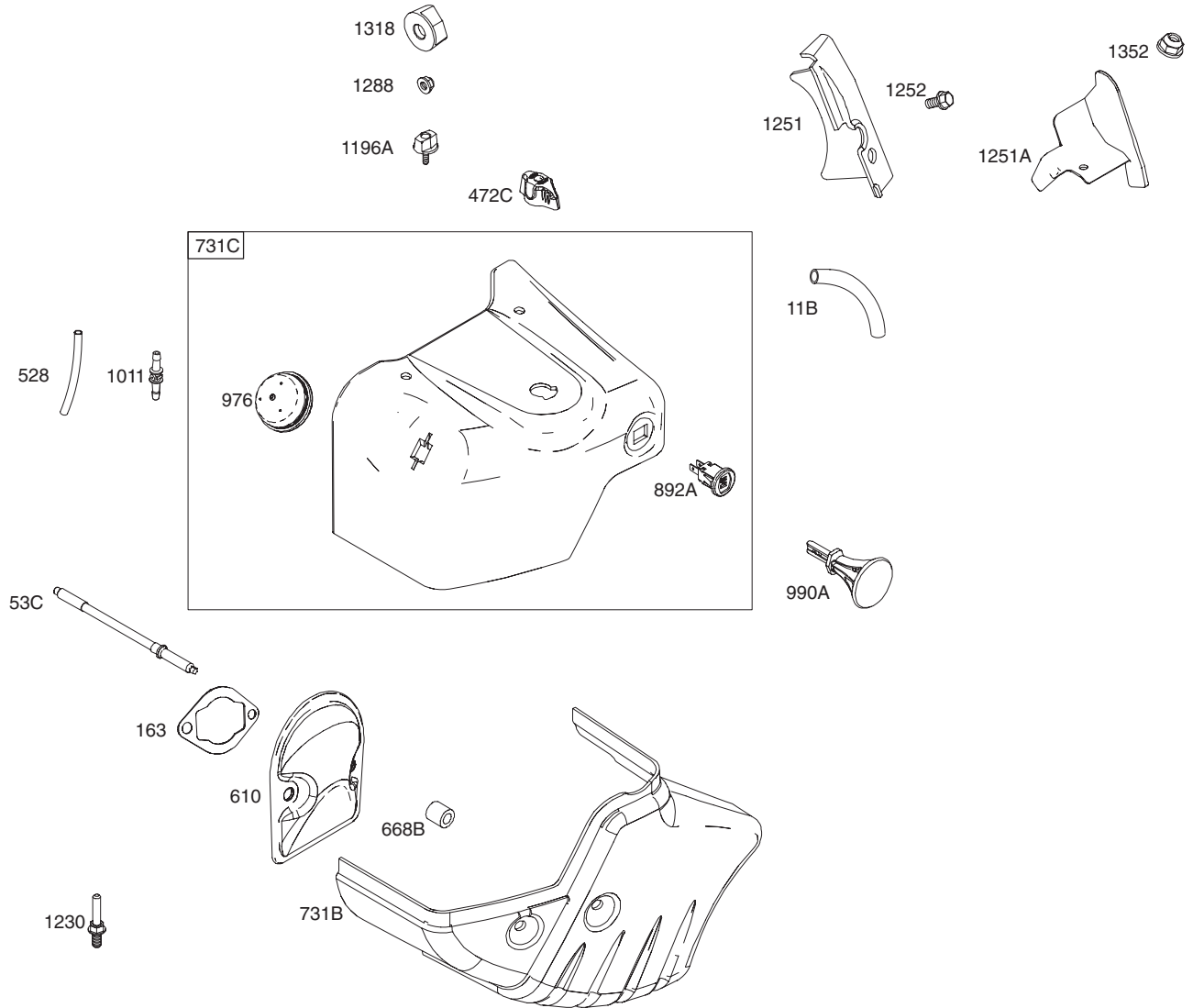




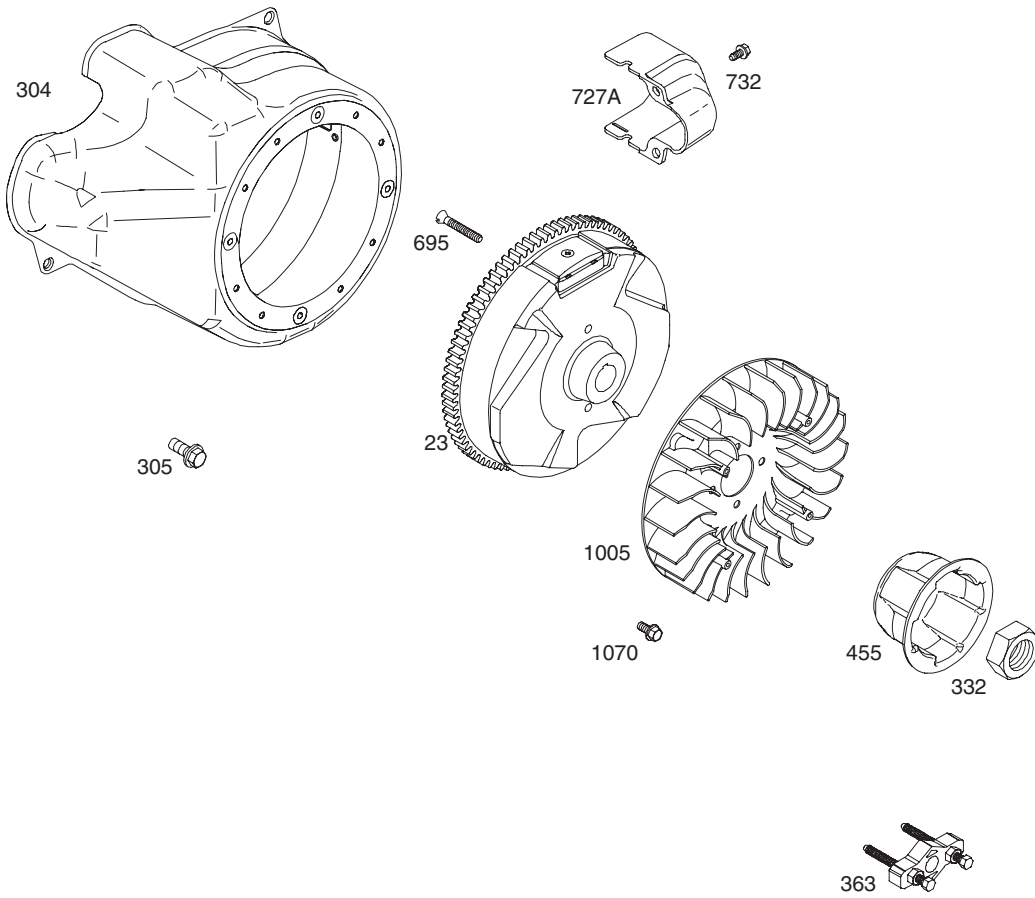




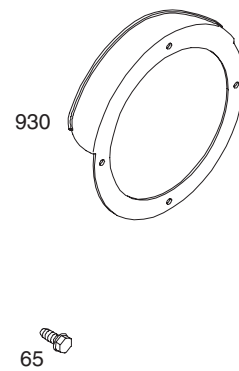
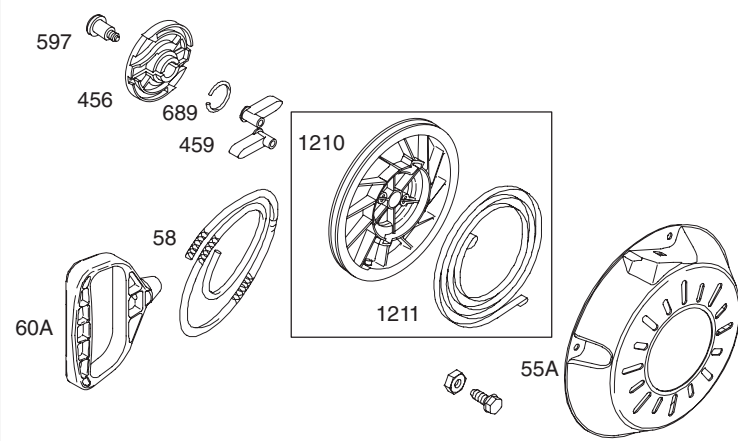
B&S 20M300 Engine



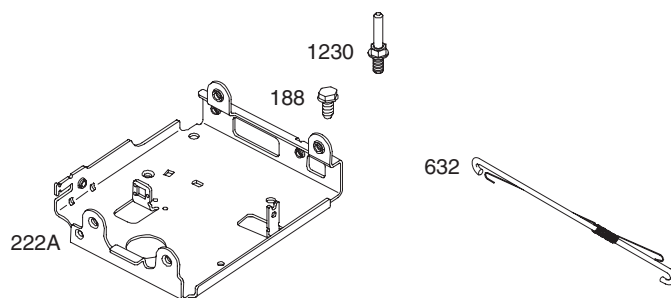
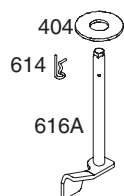
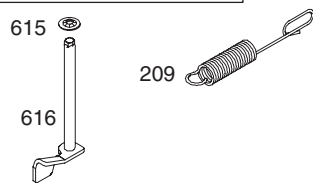
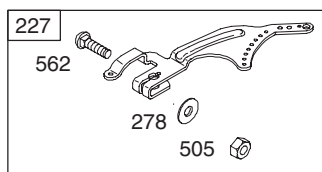
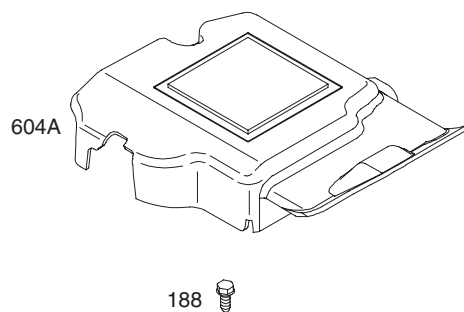
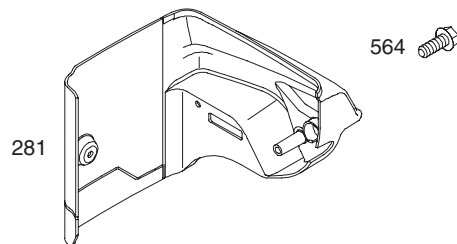
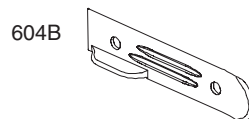
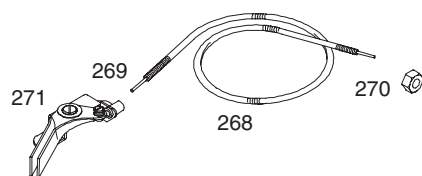
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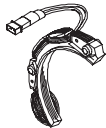


608A



B&S 20M300 Engine

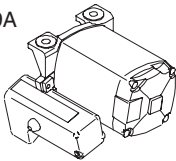


DUAL CIRCUIT	DC ONLY	DUAL CIRCUIT
474B 	474F 	474H 
878 	578A 	878 

NOTE: All stators use a No. 1119 mounting screw 

NOTE: The proper flywheel part number and/or the alternator magnet size will determine the alternator type or output. See repair instruction manual for additional information.

309A



356

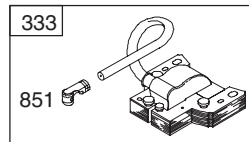


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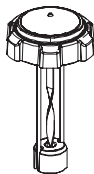
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957



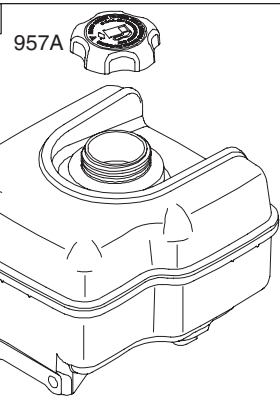
957B



958

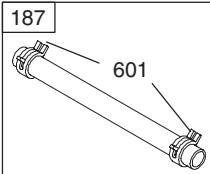


972A



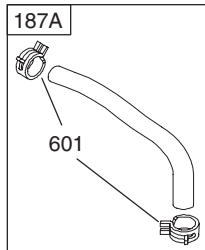
957A

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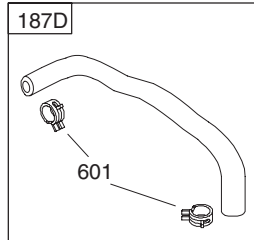
601

187A



601

187D



601

190



B&S 20M300 Engine

Ref.	Part Number	Description
1	794849	Cylinder Assembly
2	698340	Kit—Bushing/Seal (Magneto Side)
3	*391086S	Seal—Oil (Magneto Side)
5	794871	Head—Cylinder
7	*Δ694872	Gasket—Cylinder Head
11B	696750	Tube—Breather
12	*694953	Gasket—Crankcase
13	794829	Screw (Cylinder Head)
15	691686	Plug—Oil Drain
15B	695757	Plug—Oil Drain
16	794720	Crankshaft
18	791965	Cover—Crankcase
19	698340	Kit—Bushing/Seal (PTO Side)
20	*391086S	Seal—Oil (PTO Side)
21	281658S	Cap—Oil Fill
22	794825	Screw(Crankcase Cover/Sump)
23	794812	Flywheel
24	222698S	Key—Flywheel
25	792117	Piston Assembly (Standard)
27	690975	Lock—Piston Pin
28	696581	Pin—Piston
29	694691	Rod—Connecting
30	694692	Dipper—Connecting Rod
32	690976	Screw (Connecting Rod)
33	499596	Valve—Exhaust
34	795199	Valve—Intake
35	694865	Spring—Valve (Intake)
36	694865	Spring—Valve (Exhaust)
42	499586	Keeper—Valve
45	690977	Tappet—Valve
46	795697	Camshaft
51	*Δ694874	Gasket—Intake
51A	*Δ694875	Gasket—Intake
53C	795017	Stud (Carburetor)
55A	696710	Housing—Rewind Starter
58	693389	Rope—Starter (Cut To Required Length)
60A	699334	Grip—Starter Rope

Ref.	Part Number	Description
65	699851	Screw (Rewind Starter)
95A	690718	Screw (Throttle Valve)
97A	696387	Shaft—Throttle
98A	•695408	Kit—Idle Speed
104A	•694918	Pin—Float Hinge
105A	•696136	Valve—Float Needle
108C	696736	Valve—Choke
109G	793520	Shaft—Choke
117	•696134	Jet—Main (Standard)
118	696135	Jet—Main (High Altitude)
121A	696146	Kit—Carburetor Overhaul (Nikki Carburetor)
122	•694876	Spacer—Carburetor
125B	794593	Carburetor
127A	•690727	Plug—Welch
130A	696139	Valve—Throttle
133A	694914	Float—Carburetor
135	696142	Tube—Fuel Transfer
137A	•695426	Gasket—Float Bowl
146	690979	Key—Timing
163	*•692277	Gasket—Air Cleaner
170	794833	Stud (Crankcase Cover/Sump)
187	791766	Line—Fuel (15 Inches Long) (Cut To Required Length)
187A	791869	Line—Fuel
187D	791879	Line—Fuel
188	699479	Screw (Control Bracket)
190	699220	Screw (Fuel Tank)
192	690083	Adjuster—Rocker Arm
209	695491	Spring—Governor
219	693578	Gear—Governor
220	691724	Washer (Governor Gear)
222A	794801	Bracket—Control
227	694864	Lever—Governor Control
268	691025	Casing—Control Wire (Cut To Required Length)
269	691026	Wire—Control (Cut To Required Length)
270	691027	Nut

* — Included in Engine Gasket Set—Ref. No. 358.

• — Included in Carburetor Overhaul Kit—Ref. No. 121A.

Δ — Included in Valve Gasket Set—Ref. No. 1095.

B&S 20M300 Engine

Ref.	Part Number	Description
271	691028	Lever—Control
278	792008	Washer (Governor Control Lever)
281	697268	Panel—Control
287	699629	Screw (Dipstick Tube)
300B	794948	Muffler
300C	793701	Muffler
304	795699	Housing—Blower
305	699481	Screw (Blower Housing)
306	697240	Shield—Cylinder
307	794822	Screw
309A	793524	Motor—Starter
332	794824	Nut (Flywheel)
333	492341	Armature—Magneto
334	699477	Screw (Magneto Armature)
337	491055S	Plug—Spark
356	692603	Wire—Stop
358	795201	Gasket Set—Engine
363	19203	Puller—Flywheel
369	695422	Spring—Float Bowl
383	19374S	Wrench—Spark Plug
404	795759	Washer (Governor Crank)
415	691363	Plug
436C	792374	Manifold—Exhaust
437	794844	Screw (Exhaust Manifold)
455	795011	Cup—Flywheel
456	692299	Plate—Pawl Friction
459	281505S	Pawl—Ratchet
472C	791948	Knob—Choke Shaft
474B	696742	Alternator
474F	793640	Alternator
474H	698230	Alternator
505	691251	Nut
523	790477	Dipstick
524	691876	Seal—Dipstick Tube
525	792041	Tube—Dipstick
528	793006	Hose—Primer (Cut to Required Length)
529	791822	Grommet

Ref.	Part Number	Description
552	694674	Bushing—Governor Crank
562	793216	Bolt (Governor Control Lever)
564	699854	Screw (Control Cover)
578A	792576	Wire Assembly
597	691696	Screw (Pawl Friction Plate)
601	791850	Clamp—Hose
604A	696758	Cover—Control
604B	790473	Cover—Control
608A	699335	Starter—Rewind
610	794541	Arrester—Intake
613	794846	Screw (Muffler)
613B	794844	Screw (Muffler)
614	691620	Pin—Cotter (Governor Crank)
615	694676	Retainer—Governor Shaft (Governor Gear)
616	694675	Crank—Governor
616A	795758	Crank—Governor
632	695917	Spring/Link—Mechanical Governor
633B	•690998	Seal—Choke/Throttle Shaft
635	691909	Boot—Spark Plug (Alternator)
668B	794539	Spacer (Snow Hood)
676D	794213	Deflector—Muffler
677A	699776	Screw (Muffler Deflector)
689	691855	Spring—Friction
695	698807	Screw (Ring Gear)
697	795012	Screw (Drive Cap)
718	690959	Pin—Locating (Cylinder)
718A	695178	Pin—Locating (Head)
725	696756	Shield—Heat
727A	697465	Cover—Starter Drive
731B	794540	Hood—Snow
731C	793621	Hood—Snow
732	699200	Screw (Starter Drive Cover)
740A	794843	Nut (Muffler Bracket)
741	691288	Gear—Timing
742	692564	Retainer—E Ring
746	694679	Gear—Idler
798	697890	Screw (Rocker Arm)

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• — Included in Carburetor Overhaul Kit—Ref. No. 121A.

Δ — Included in Valve Gasket Set—Ref. No. 1095.

B&S 20M300 Engine

Ref.	Part Number	Description
819	794832	Screw (Muffler Bracket)
832	795078	Guard Muffler
832C	792380	Guard—Muffler
836	699234	Screw (Muffler Guard)
836C	710023	Screw (Muffler Guard)
842	691031	Seal—O Ring (Dipstick Tube)
847	790476	Dipstick/Tube Assembly
851	692424	Terminal—Spark Plug
863C	793700	Bracket—Muffler
868	*Δ794086	Seal—Valve
878	398661	Wire/Connector—Alternator
883	*Δ695398	Gasket—Exhaust
883C	710250	Gasket—Exhaust
892A	791944	Switch—Key
914	794827	Screw (Rocker Cover)
930	696709	Guard—Rewind
957	795027	Cap—Fuel Tank (Plastic)
957A	792647	Cap—Fuel Tank (Plastic, Fresh Start)
957B	698109	Cap—Fuel Tank (Plastic)
958	698180	Valve—Fuel Shut Off (Plastic)
972A	694260	Tank—Fuel (Plastic)
975A	696138	Bowl—Float
976	793382	Primer—Carburetor
990A	794696	Key Set
998A	696683	Pipe—Oil
1005	794815	Fan—Flywheel
1011	794544	Tube—Vent
1022	*Δ690971	Gasket—Rocker Cover
1023A	698042	Cover—Rocker
1026	695177	Rod—Push
1029	690972	Arm—Rocker
1036		Label—Emissions (Available From A Briggs & Stratton Authorized Dealer)
1058	277104	Operator's Manual
1070	794821	Screw (Flywheel Fan)
1095	795200	Gasket Set—Valve
1100	791959	Pivot—Rocker Arm

Ref.	Part Number	Description
1119	699772	Screw (Alternator)
1127A	695407	Screw (Float Bowl)
1171	794828	Stud (Rocker Cover)
1177	710090	Nut (Muffler)
1194	691876	Seal—O Ring (Plug)
1196A	696692	Screw (Snow Hood)
1210	498144	Pulley/Spring Assembly (Pulley)
1211	498144	Pulley/Spring Assembly (Spring)
1230	699847	Stud (Control Bracket)
1251	696762	Shield—Snow
1251A	790471	Shield—Snow
1252	699481	Screw (Snow Shield)
1288	794838	Nut (Snow Hood)
1318	698111	Knob—Snow Hood
1319	794467	Label—Warning
1351	794847	Stud (Cylinder Shield)
1352	795016	Nut (Spark Plug Shield)

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• — Included in Carburetor Overhaul Kit—Ref. No. 121A.

Δ — Included in Valve Gasket Set—Ref. No. 1095.