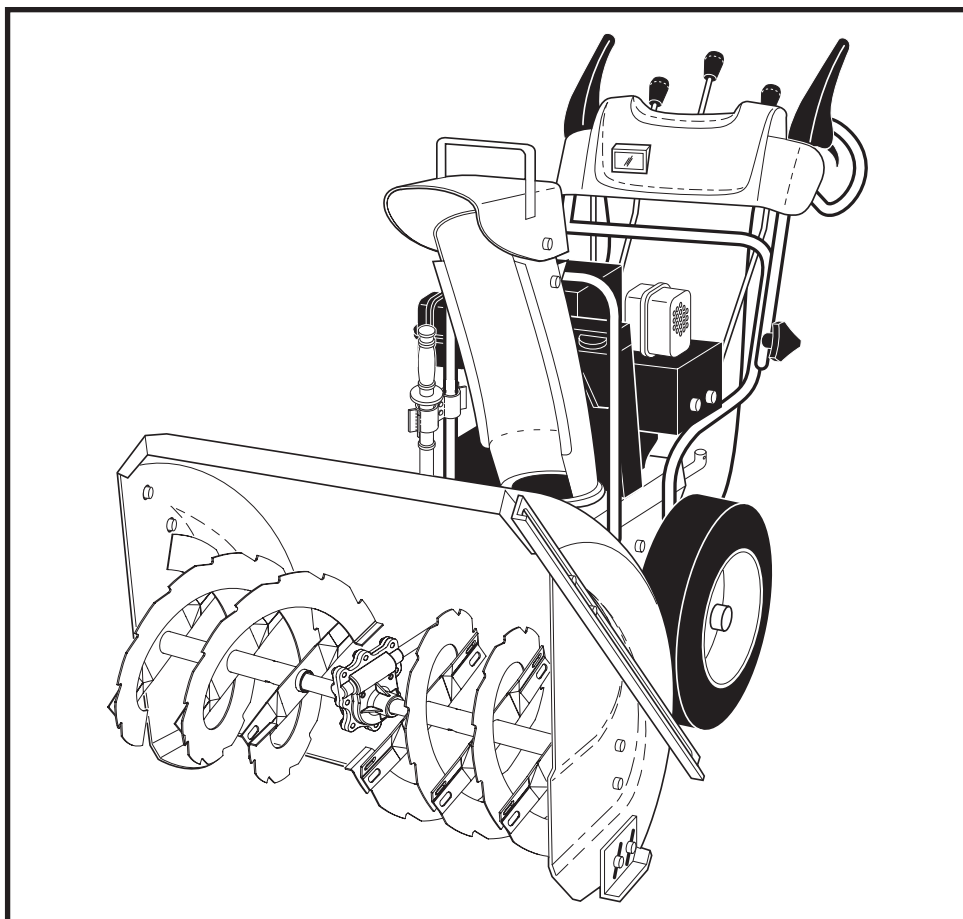


SEARS

OWNER'S MANUAL

**MODEL NO.
944.527801**

Caution:
Read and follow
all Safety Rules
and Instructions
Before Operating
This Equipment



CRAFTSMAN®

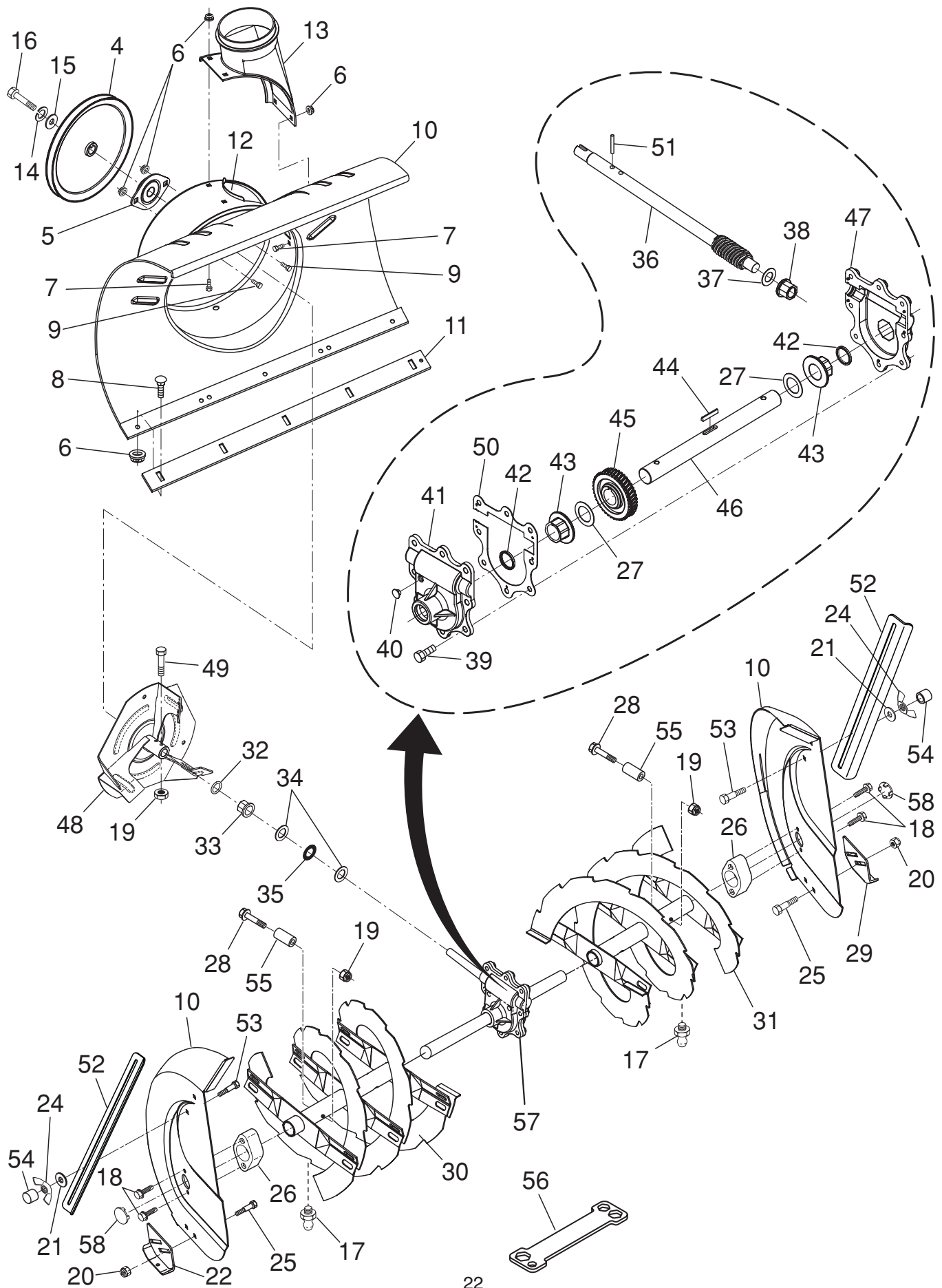
1650 SERIES B&S ENGINE 30" TWO-STAGE POWER-PROPELLED SNOW THROWER

- **Assembly**
- **Operation**
- **Maintenance**
- **Service and Adjustments**
- **Repair Parts**

REPAIR PARTS

SNOW THROWER - - MODEL NUMBER 944.527801

AUGER HOUSING / IMPELLER ASSEMBLY



REPAIR PARTS SNOW THROWER - - MODEL NUMBER 944.527801

AUGER HOUSING / IMPELLER ASSEMBLY

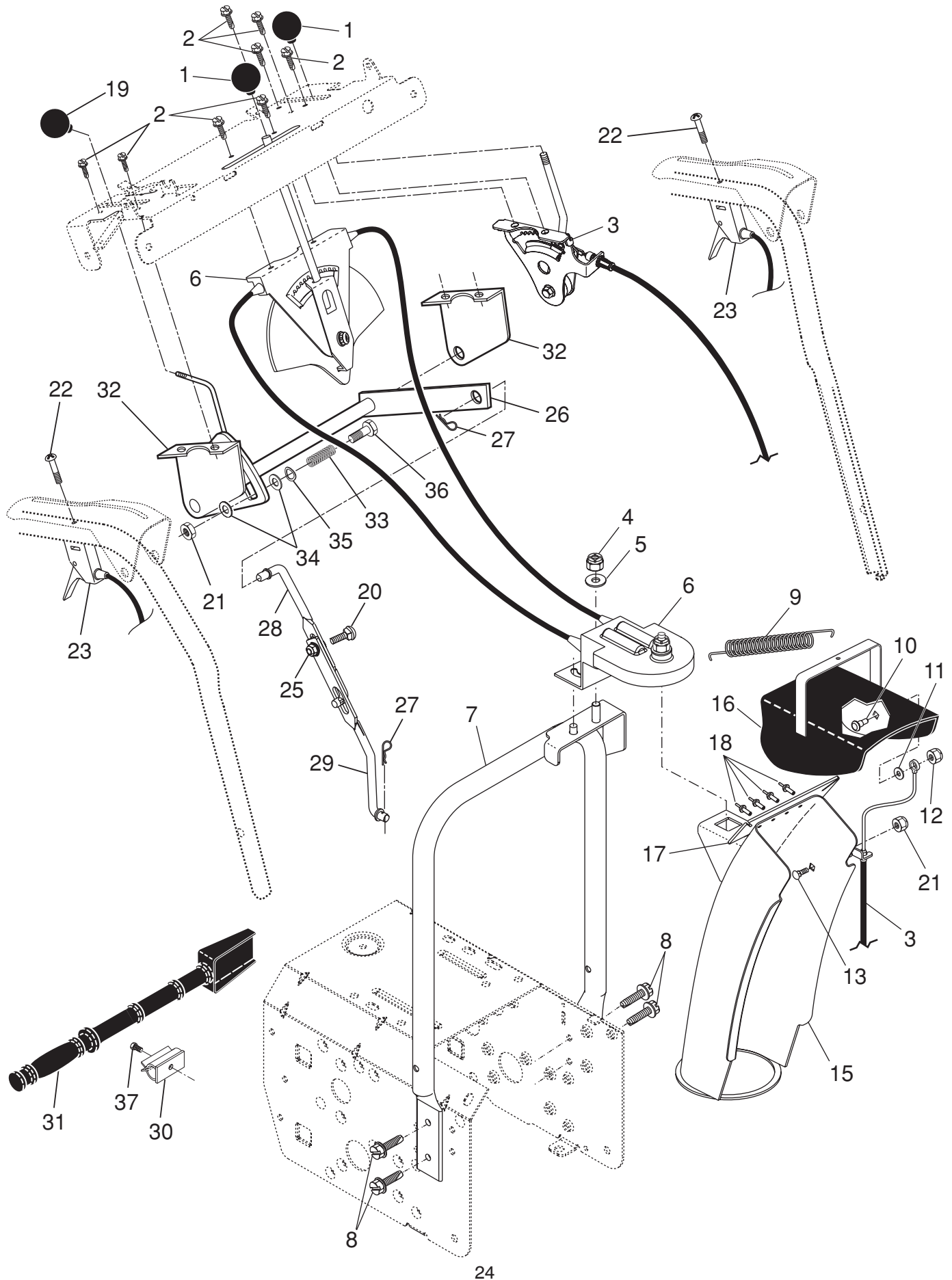
KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
4	191079	Pulley, Impeller	31	405972X479	Auger Assembly, LH
5	188909	Bearing Assembly, Flange	32	407768	O-Ring
6	155377	Nut, Hex Flange 5/16-18	33	407769	Bushing, Flange 3/4
7	180355	Bolt, Flat Head, Carriage 5/16-18 x 5/8	34	174681	Washer, Thrust 3/4
8	72270505	Bolt, Carriage 5/16-18	35	174684	Bearing, Thrust 3/4
9	163183	Bolt, Hex Head 5/16-18 x 5/8	36	407757	Shaft, Impeller
10	404930X428	Housing, Auger	37	174683	Washer, Thrust 5/8
11	404933X429	Bar, Scraper	38	407758	Bushing, Flange 5/8
12	178675X008	Bracket, Corner Discharge	39	407767	Screw, Hex Head 5/16-18 x 3/4
13	175322	Base, Discharge Chute	40	407760	Plug, Case
14	10040500	Washer, Lock 5/16	41	407761	Housing, Gearbox, RH
15	19111507	Washer, Flat	42	407770	Seal, Oil
16	74940516	Screw, Hex Head 5/16-18 x 3/4	43	407762	Bushing, Flange, 1"
17	405637	Fitting, Grease	44	189282	Key, Square 1/4 x 1/4 x 7/8
18	179582	Screw, Hex Head 5/16 x 1	45	407763	Gear, Worm
19	73800400	Nut, Hex Lock 1/4-20	46	407764	Shaft, Auger
20	155377	Nut, Hex Lock 5/16-18	47	407765	Housing, Gearbox, LH
21	401347	Washer, Flat 5/16	48	175321X479	Impeller Assembly
22	178777X479	Skid Plate, RH	49	74780426	Screw, Hex Head 1/4-20 x 1-5/8
24	128638	Wing Nut	50	407766	Gasket, Gearbox
25	72270506	Bolt, Carriage 5/16-18 x 3/4	51	7836M	Pin, Roll 3/16 x 1-1/8
26	174658	Bearing, Auger	52	181160X479	Bar, Drift Cutter
27	174697	Washer, Thrust, 1"	53	72270506	Bolt, Carriage 5/16-18 x 3/4
28	198636	Bolt, Shear	54	198709	Stop
29	174762X479	Skid Plate, LH	55	198638	Spacer
30	405973X479	Auger Assembly, RH	56	180684	Multi-Wrench
			57	196710	Gearbox Assembly
			58	411939	Plug, Bearing Hole

NOTE: All component dimensions given in U.S. inches. 1 inch = 25.4 mm
IMPORTANT: Use only Original Equipment Manufacturer (O.E.M.) replacement parts.
Failure to do so could be hazardous, damage your snow thrower and void your warranty.

REPAIR PARTS

SNOW THROWER - - MODEL NUMBER 944.527801

CONTROL PANEL / DISCHARGE CHUTE



REPAIR PARTS**SNOW THROWER - - MODEL NUMBER 944.527801****CONTROL PANEL / DISCHARGE CHUTE**

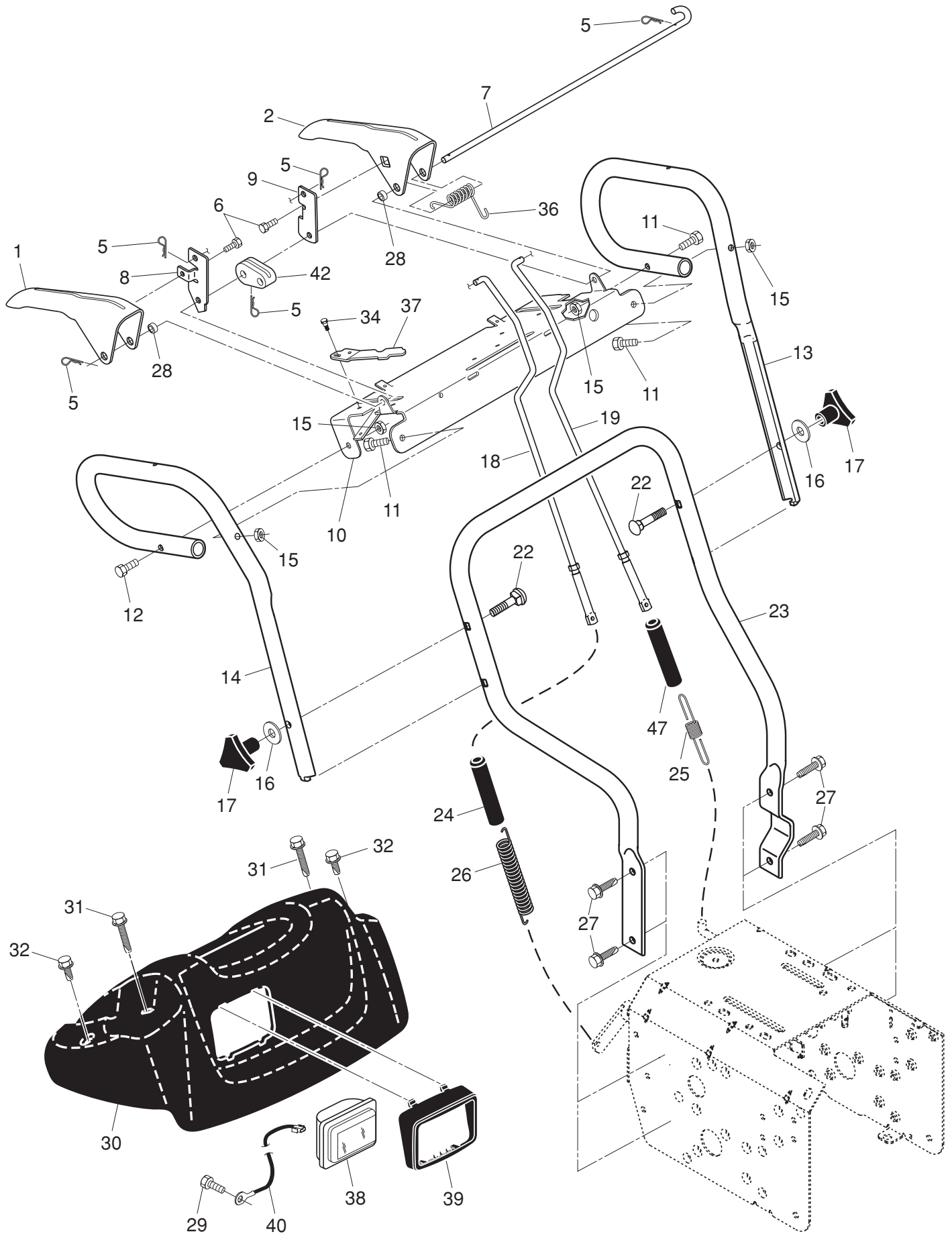
KEY NO.	PART NO.	DESCRIPTION
1	414280	Knob, Lever, Black
2	17501010	Screw #10-24 x 5/8
3	198475	Control Assembly, Deflector
4	73800600	Nut, Lock 3/8-16
5	19131316	Washer, Flat 3/8
6	404974	Control Assembly, Chute Rotater
7	405784X479	Support, Pivot
8	150078	Screw, Hex Head 5/16-18 x 3/4
9	184505	Spring, Deflector
10	179829	Bolt, Shoulder
11	179246	Washer, Friction, Nylon
12	191730	Nut, Lock 1/4-20
13	72250505	Bolt, Carriage 5/16-18
14	73800500	Nut, Lock 5/16-18
15	404770X428	Chute Assembly
16	178633X428	Deflector Assembly
17	179145	Seal, Deflector
18	128415	Rivet, Blind
19	414281	Knob, Speed Control Lever, Red
20	72270506	Bolt, Carriage 5/16-18 x 3/4
21	751153	Nut, Hex
22	74041024	Screw #10-24 x 1-1/2
23	188303	Control Assembly, Power Steering
25	155377	Nut, Hex, Flangelock 5/16-18
26	192001	Lever Assembly, Speed Control
27	169675	Retainer, Hairpin
28	187782	Rod, Upper, Speed Control
29	187784	Rod, Lower, Speed Control
30	405400	Clamp, Mounting, Clean-Out Tool
31	192199	Tool, Clean-Out
32	192002	Bracket, Shift
33	192195	Spring
34	179246	Washer, Nylon
35	155415	Washer
36	74760552	Bolt, Hex Head 5/16-18 x 3-1/4
37	194189	Screw, Hi/Lo Thread #13-16 x 5/8

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REPAIR PARTS HANDLES

SNOW THROWER - - MODEL NUMBER 944.527801



REPAIR PARTS HANDLES

SNOW THROWER - - MODEL NUMBER 944.527801

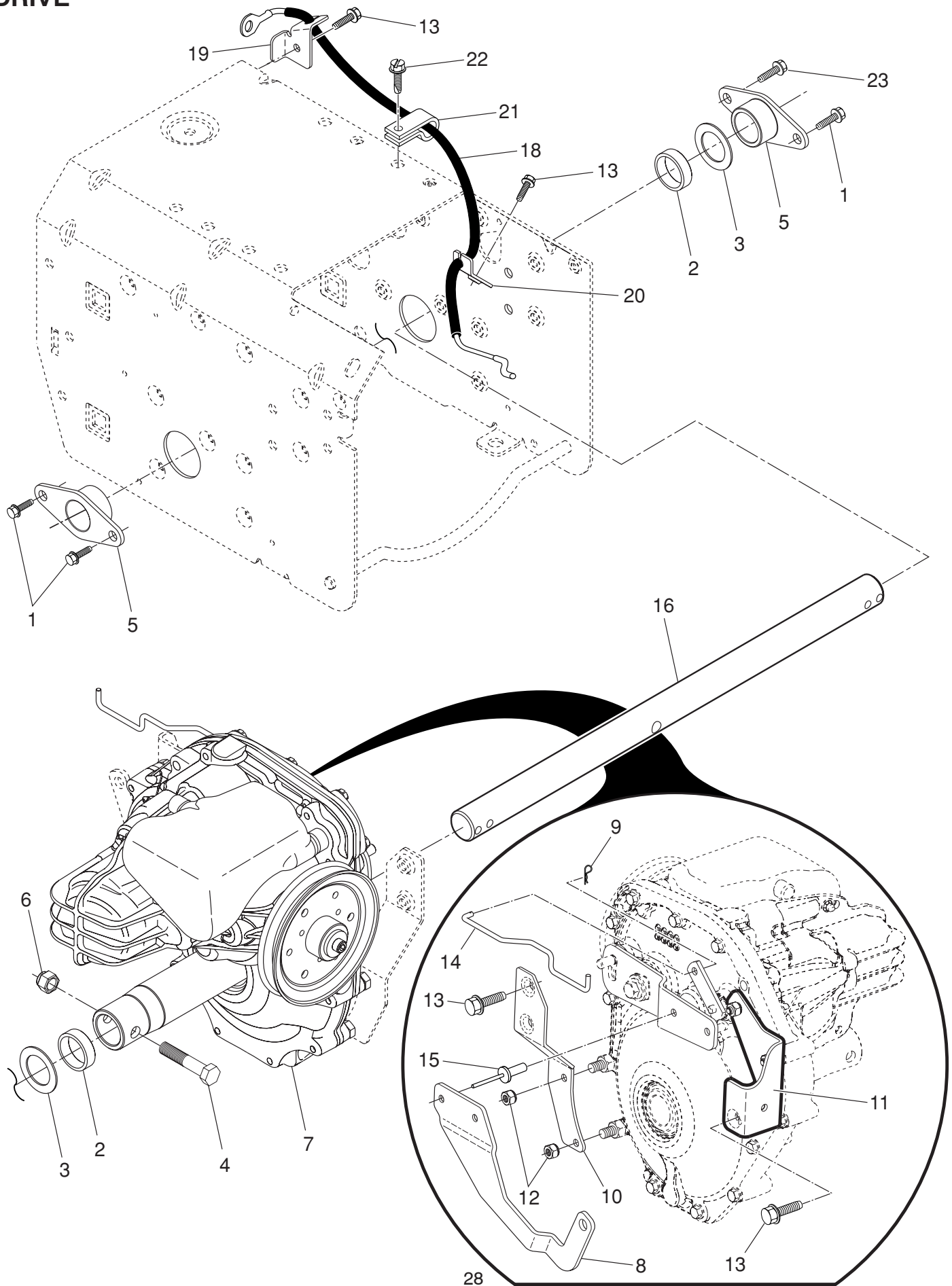
KEY NO.	PART NO.	DESCRIPTION
1	412682X479	Lever, Auger Control, RH
2	412681X479	Lever, Traction Drive Control, LH
5	169675	Retainer, Hairpin
6	17060408	Screw, Hex Head 1/4-20 x 3/4
7	412677	Rod, Interlock
8	196333X008	Arm, Interlock Rod
9	412679X008	Arm, Traction Control Rod
10	412683X479	Panel, Control
11	74780524	Screw, Hex Head 5/16-18 x 1-1/2
12	74780528	Screw, Hex Head 5/16-18 x 1-3/4
13	414519X479	Handle Tube, LH
14	414518X479	Handle Tube, RH
15	751153	Nut, Lock 5/16-18
16	19131316	Washer, Flat 3/8
17	178899	Knob, Handle
18	193447	Rod, Auger Control
19	180485	Rod, Traction Control
22	72120618	Bolt, Carriage 3/8-16 x 2-1/4
23	178643X479	Handle Tube, Lower
24	180447	Sleeve, Spring, Auger Control Rod
25	180926	Spring, Traction Drive
26	178669	Spring, Auger Control
27	17000616	Screw, Hex Head 3/8-16 x 1
28	412680	Spacer
29	408059	Screw, Headlight Ground Wire to Blower Housing
30	182906	Console, Panel
31	175262	Screw, Hex Head, Tapping #10-24 x 1-1/4
32	184471	Screw, Hex Head, Tapping #10-24 x 1/2
34	17060410	Screw
36	178831	Spring, Torsion, Lever
37	412675X004	Spring, Interlock
38	178666	Headlight, Halogen (Includes Bulb)
- -	401620	Bulb, Halogen
39	178668	Bezel, Headlight
40	180964	Harness, Headlight (Halogen)
42	414572	Cam, Interlock
47	192091	Sleeve, Spring, Traction Control Rod

NOTE: All component dimensions given in U.S. inches. 1 inch = 25.4 mm

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REPAIR PARTS
DRIVE

SNOW THROWER - - MODEL NUMBER 944.527801



REPAIR PARTS DRIVE

SNOW THROWER - - MODEL NUMBER 944.527801

KEY NO.	PART NO.	DESCRIPTION
1	17490508	Screw 1/4-20 x 1/2
2	187794	Spacer, Axle
3	174697	Washer, Thrust
4	74780632	Screw, Cap, Hex Head 3/8-16 x 2
5	179830	Bearing, Axle
6	73800600	Nut, Hex, Centerlock 3/8-16
7	187776	Transmission Assembly
8	187787	Speed Control Arm, Hydro
9	700279	Retainer Clip
10	188101	Torque Strap
11	193255X479	Bracket, Anti-Rotate
12	73800400	Nut, Hex, Nylock 1/4-20
13	150078	Screw, Hex Washer Head 5/16-18 x 3/4
14	193256	Rod, Bypass Valve
15	191995	Pop Rivet
16	404308	Shaft, Axle
18	198466	Cable, Drive Control
19	192000	Bracket, Cable, Rear
20	191993	Bracket, Cable, Front
21	87930	Clip, Cable
22	17391208	Screw, Slotted Hex Head 1/8 x 1/2
23	146315	Screw, Hex Head 5/16-18 x 3/4

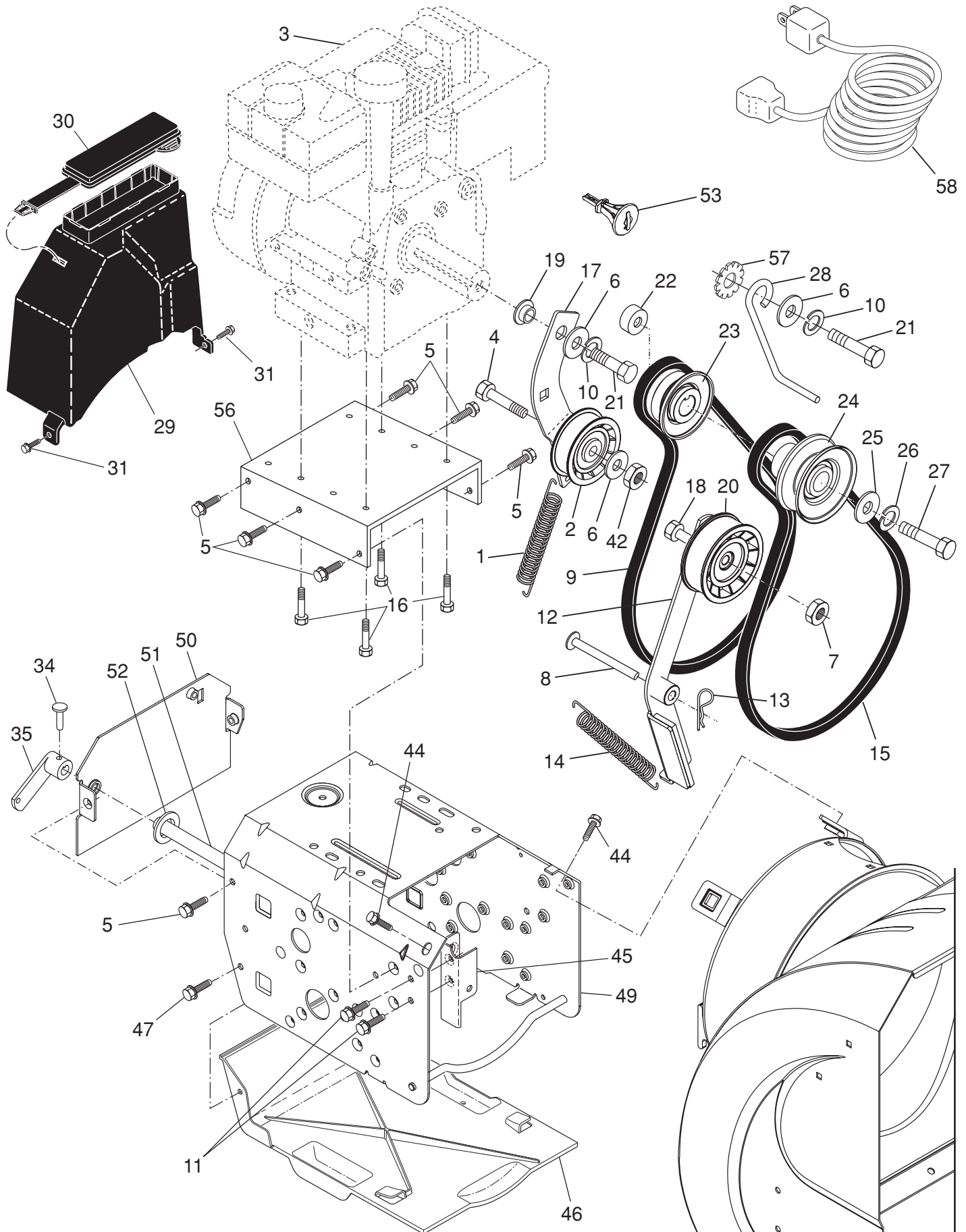
NOTE: All component dimensions given in U.S. inches. 1 inch = 25.4 mm

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REPAIR PARTS

SNOW THROWER - - MODEL NUMBER 944.527801

CHASSIS / ENGINE / PULLEYS



REPAIR PARTS**SNOW THROWER - - MODEL NUMBER 944.527801****CHASSIS / ENGINE / PULLEYS**

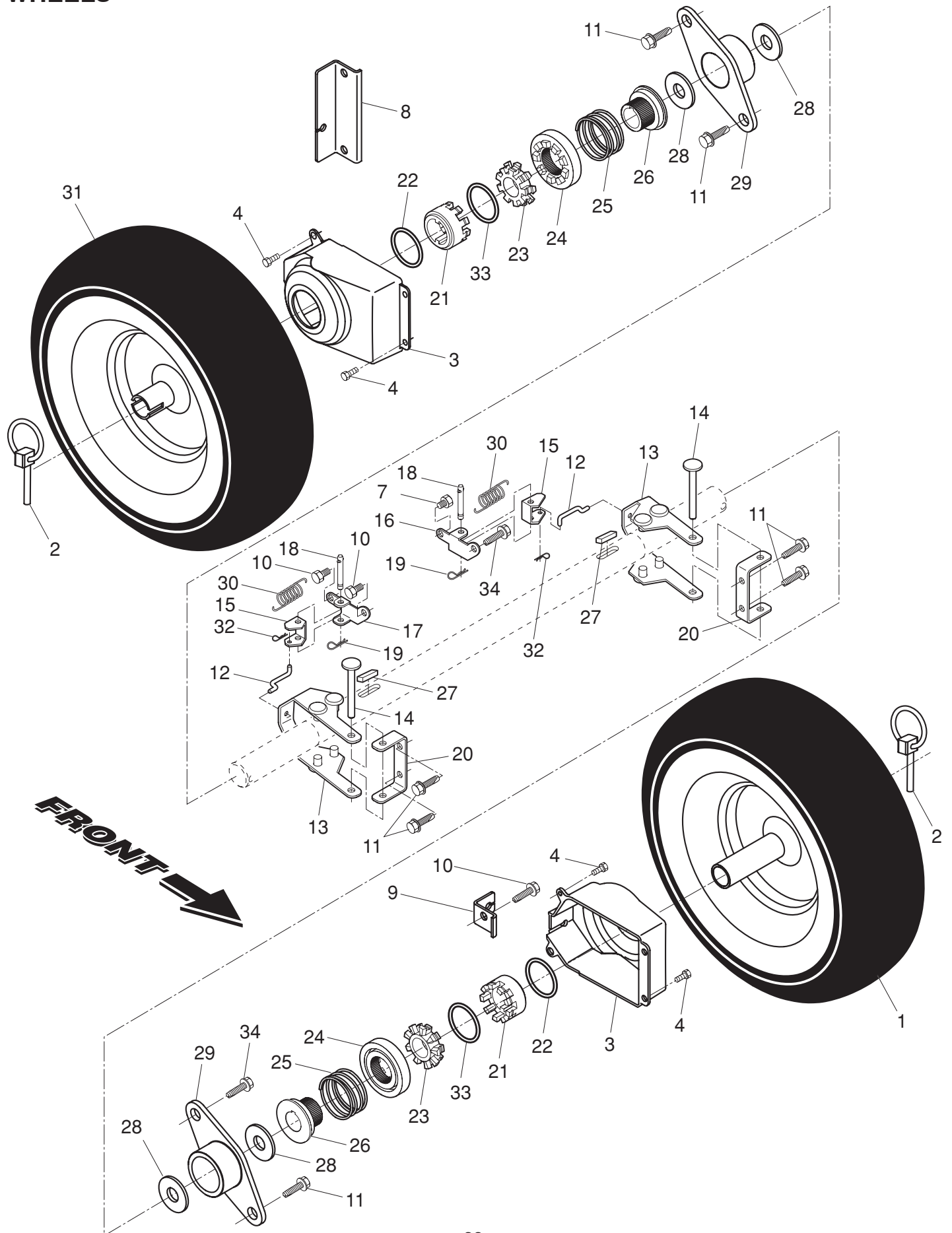
KEY NO.	PART NO.	DESCRIPTION
1	192873	Spring, Return
2	180522	Pulley, Idler (2-1/4)
3	- - -	Engine, Briggs & Stratton, Model Number 21M414-0941-E1 (See Breakdown)
4	74780520	Screw, Hex Head 5/16-18 x 1-1/4
5	150078	Screw, Hex Washer Head 5/16-18 x 3/4
6	59289	Washer, Flat
7	166785	Nut, Jam, Lock 5/16-18
8	175330	Pin, Idler Pivot
9	192383	V-Belt, Traction Drive
10	10040500	Washer, Lock 5/16
11	17490508	Bolt, Hex Head, Threaded, Rolled 5/16-18 x 1/2
12	410420	Impeller Idler Arm
13	85179	Retainer, Hairpin
14	178828	Spring, Brake
15	408007	V-Belt, Impeller Drive
16	150406	Screw, Hex Head 3/8-16 x 1-1/4
17	187786	Arm, Idler
18	74780524	Screw, Hex Head 5/16-18 x 1-1/2
19	175331	Bushing, Idler Pivot
20	180523	Pulley, Idler (2-3/4)
21	74610516	Screw, Hex Head 5/16-18 x 1
22	409475	Spacer, Engine Pulley
23	180478	Pulley, Engine, Traction Drive
24	179157	Pulley, Engine, Impeller Drive
25	400026	Washer, Flat 3/8
26	850263	Washer, Lock 3/8
27	851084	Screw, Hex Head 3/8-24 x 1-3/8
28	193607	Guide, Belt
29	192213	Belt Cover Assembly (Includes Toolbox Cover)
30	178830	Cover, Toolbox
31	17490408	Screw, Hex Head 1/4-20 x 1/2
34	198580	Clevis Pin
35	405484	Arm, Auger Control
42	73930500	Hex Locknut
44	17000616	Screw, Hex Head
45	193397X479	Bracket, Pivot, Idler
46	403732	Pan, Frame Bottom
47	184471	Screw, Hex Head 5/16-18 x 3/4
49	415004X428	Frame Assembly
50	192115X428	Plate, Frame End
51	406109	Shaft, Auger Control
52	57079	Washer, Hardened
53	193071	Safety Ignition Key
56	183537X428	Mounting Plate, Engine
57	11050500	Washer, Lock, External Tooth 5/16
58	198563	Power Cord

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REPAIR PARTS WHEELS

SNOW THROWER - - MODEL NUMBER 944.527801



REPAIR PARTS

WHEELS

SNOW THROWER - - MODEL NUMBER 944.527801

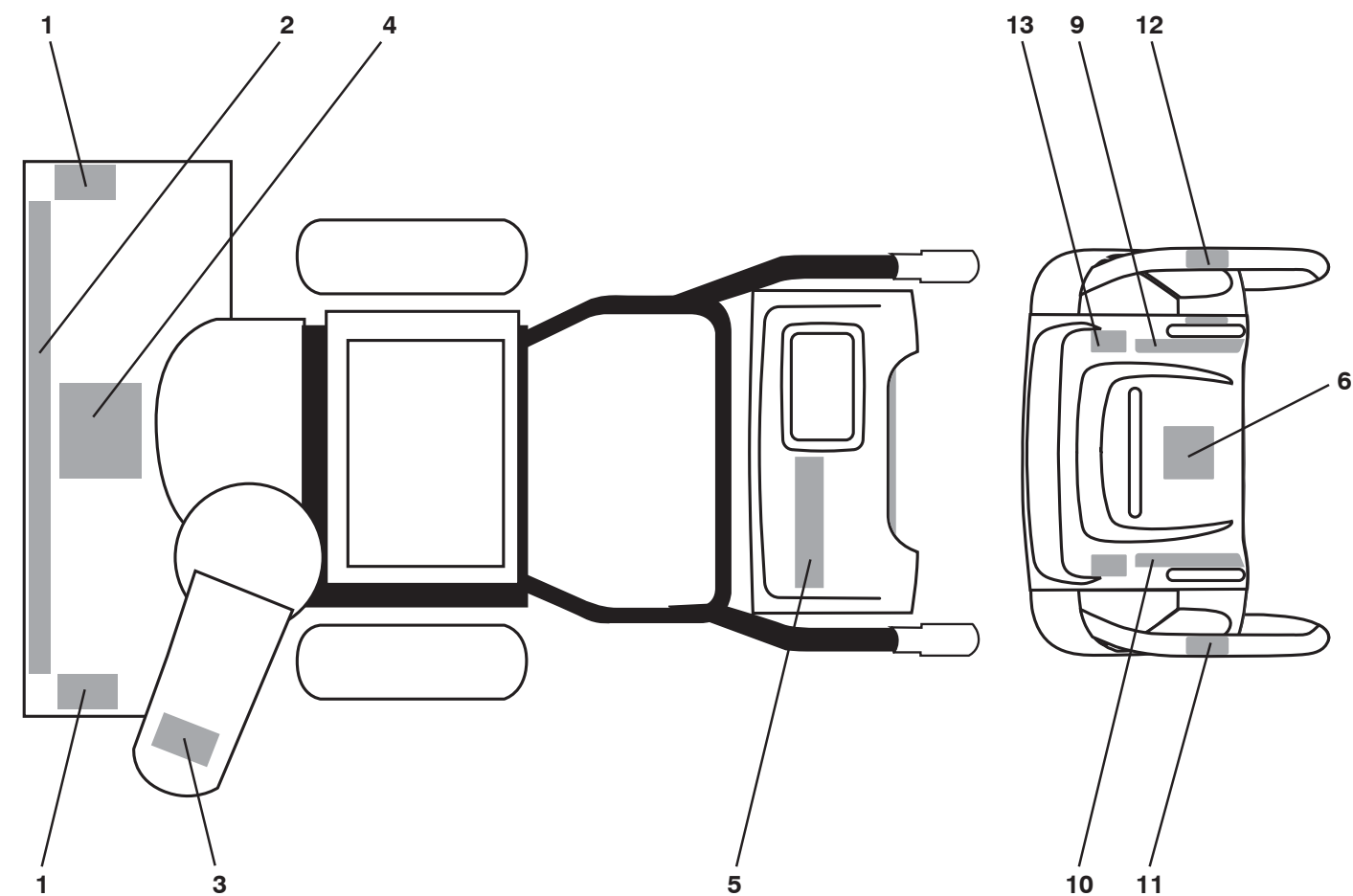
KEY NO.	PART NO.	DESCRIPTION
1	196752X417	Wheel Assembly, 16", with Power Steering, LH
2	155443	Pin, Klik 1/4
3	405161	Cover, Power Steering
4	184471	Screw, Shoulder, Hex Head #10-24 x 1/2
7	17060410	Screw, Hex Head 3/8-16 x 1
8	185603X479	Bracket, Steering Cable, RH
9	185602X004	Bracket, Steering Cable, LH
10	17600406	Screw, Cap, Hex Head 5/16-18 x 3/4
11	17490508	Screw, Hex Head 5/16-18 x 1/2
12	405077	Link, Steering Lever
13	193506X479	Lever Assembly, Steering
14	182015	Pin, Steering Lever
15	194944X008	Bellcrank
16	194939X008	Bracket Assembly, LH Steering
17	194943X008	Bracket Assembly, RH Steering
18	181847	Pin, Steering Bellcrank
19	85179	Retainer, Hairpin
20	179148X479	Bracket, Lever Assembly
21	192126	Driver, Wheel
22	182466	Ring, Wire Retainer
23	187622	Lobe, Wheel
24	194941	Slide, Clutch
25	179139	Spring, Clutch Slide
26	194940	Lobe, Axle
27	189282	Key, Square 1/4 x 1/4 x 7/8
28	174697	Washer, Thrust (1")
29	179830	Bearing, Axle
30	193885	Spring, Return, Steering Latch
31	196753X417	Wheel Assembly, 16", with Power Steering, RH
32	700279	Clip, Retainer
33	12000045	Ring, Retaining
34	146315	Screw, Tapping, Hex Head 5/16-18 x 3/4

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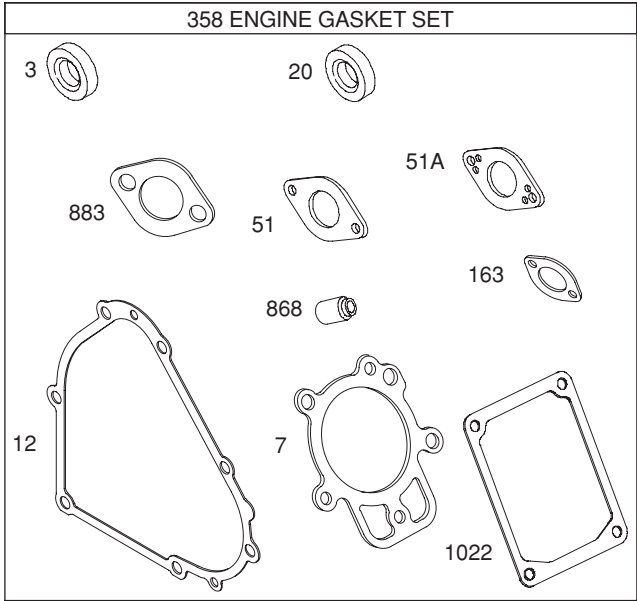
REPAIR PARTS
DECALS

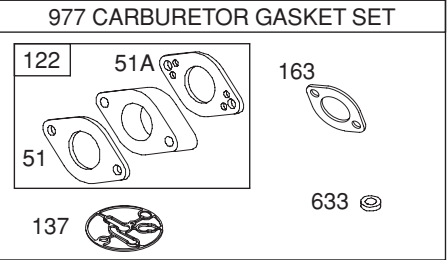
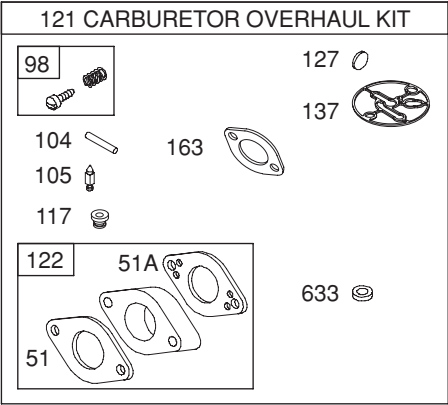
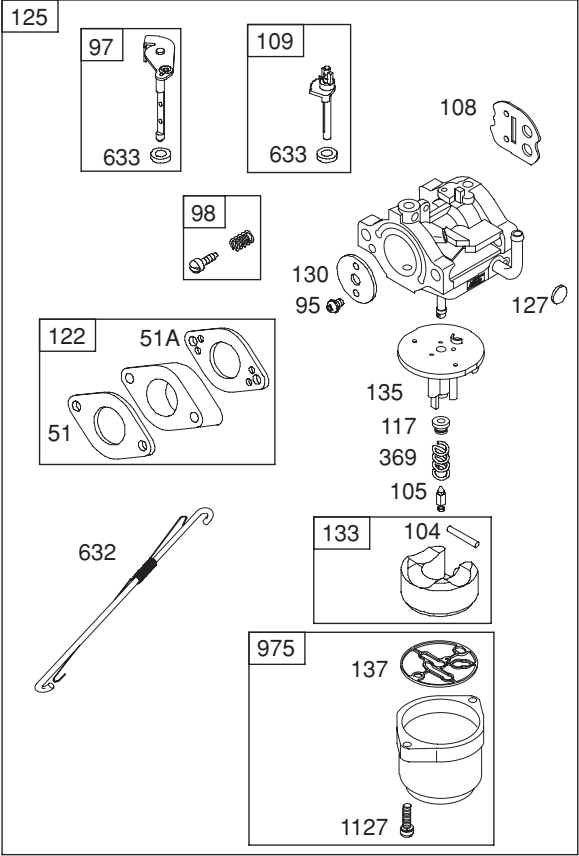
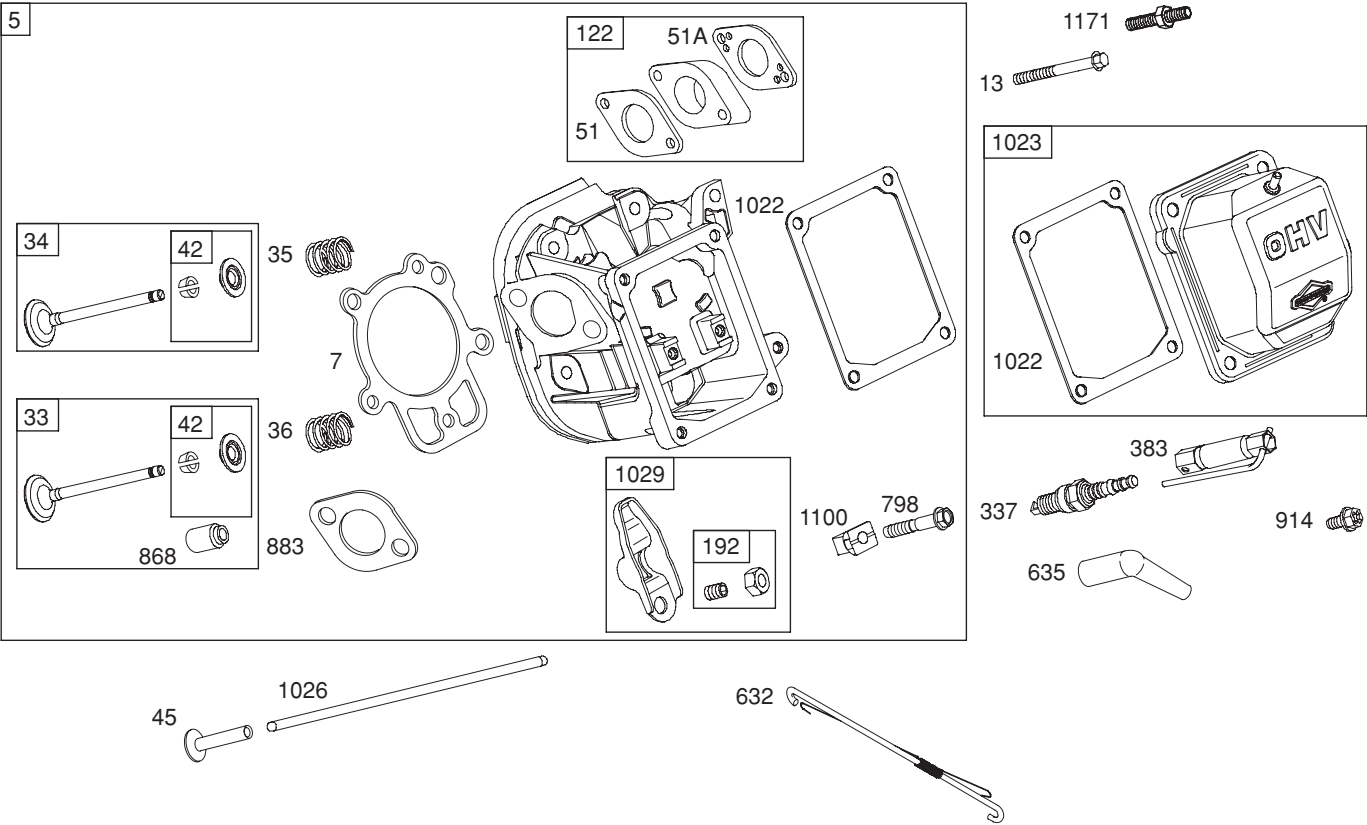
SNOW THROWER - - MODEL NUMBER 944.527801



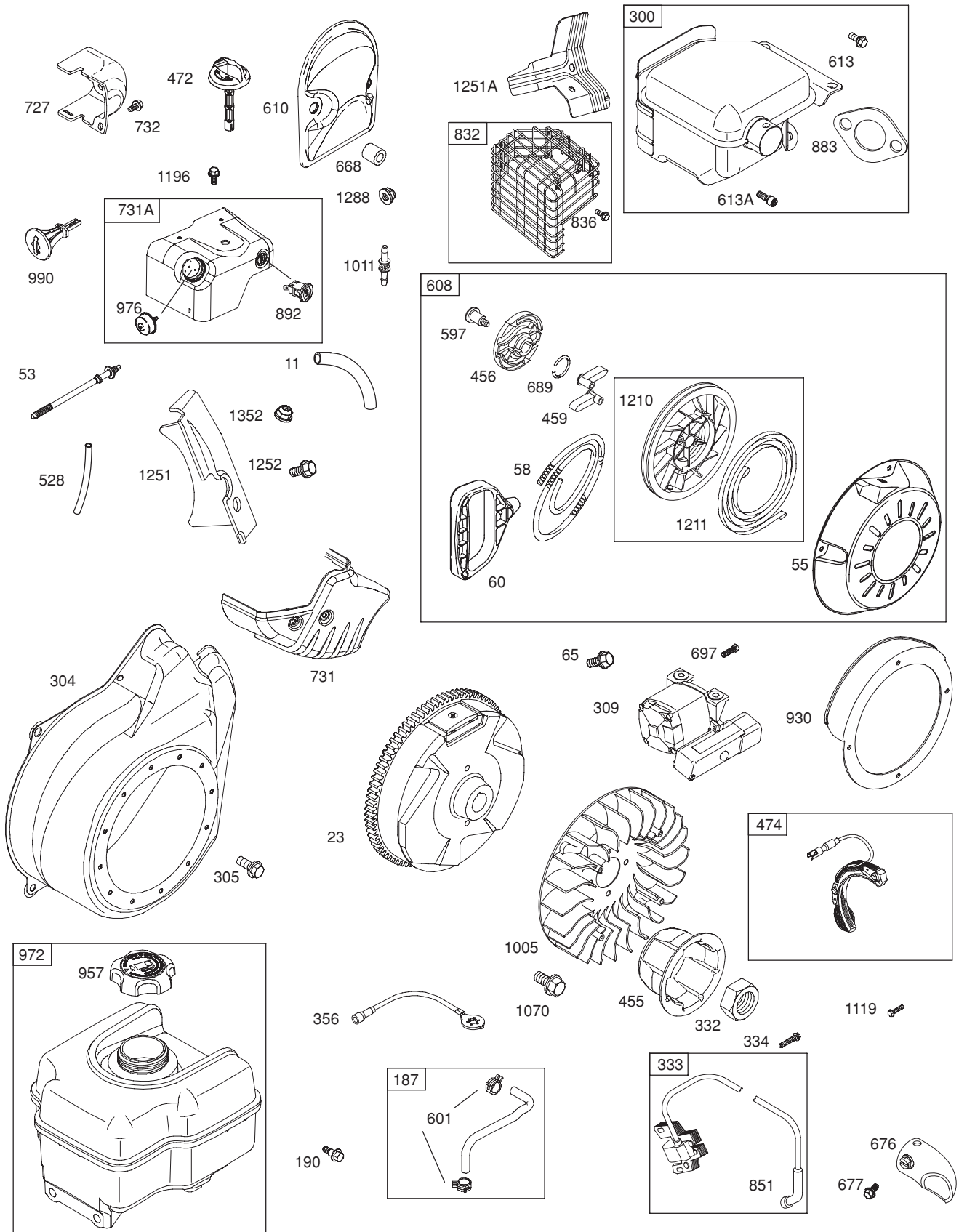
KEY NO.	PART NO.	DESCRIPTION
1	181037	Decal, Danger
2	415451	Decal, Craftsman
3	181035	Decal, Danger, Deflector
4	181042	Decal, Danger
5	183876	Decal, Craftsman
6	181033	Decal, Instruction
7	415455	Decal
9	415475	Decal, Speed Control
10	183730	Decal, Remote Deflector
11	415399	Decal, LH Trigger
12	415398	Decal, RH Trigger
13	415455	Decal, Console Automat Sears
--	415786	Owner's Manual, English
--	415787	Owner's Manual, French

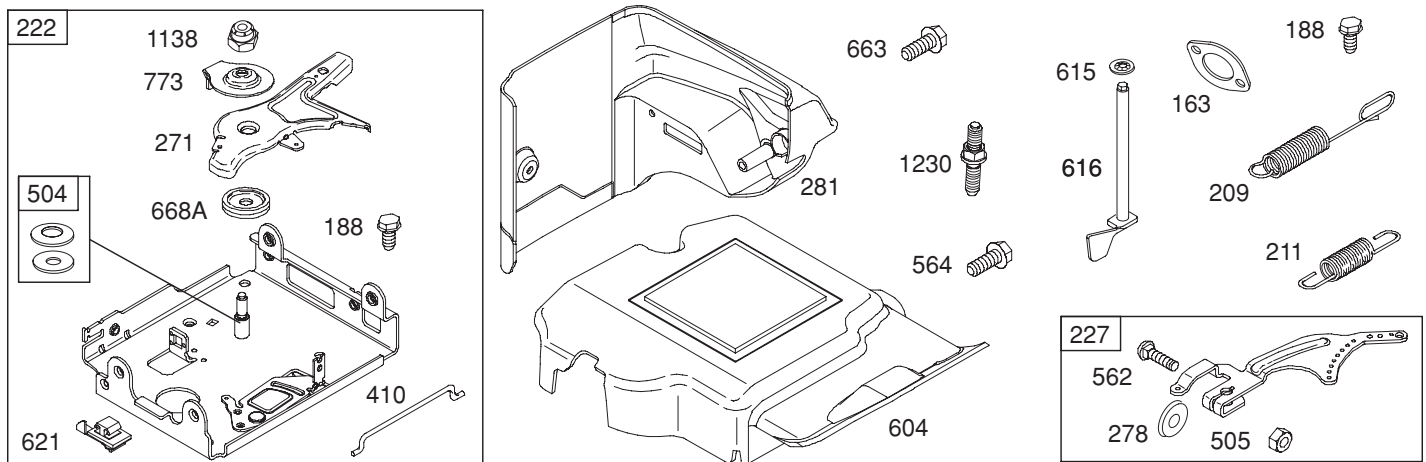
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1036 EMISSIONS LABEL





KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	794850	Cylinder Assembly	122	694876	Ø ‡ Spacer-Carburetor
2	698340	Kit-Bushing/Seal (Magneto Side)	125	793161	Carburetor
3	391086s	• Seal-Oil (Magneto Side)	127	690727	Ø Plug-Welch
5	794871	Head-Cylinder	130	696139	Valve-Throttle
7	697690	•+ Gasket-Cylinder Head	133	694914	Float-Carburetor
11	696750	• Tube-Breather	135	696142	Tube-Fuel Transfer
12	694953	• Gasket-Crankcase	137	695426	Ø ‡ Gasket-Float Bowl
13	794829	Screw (Cylinder Head)	146	690979	Key-Timing
15	695757	Plug-Oil Drain	163	692277	+Ø‡ Gasket-Air Cleaner
15A	691686	Plug-Oil Drain	187	698080	Line-Fuel
16	794720	Crankshaft	188	699479	Screw (Control Bracket)
18	791965	Cover-Crankcase	190	699220	Screw (Fuel Tank)
19	698340	Kit-Bushing/Seal (PTO Side)	192	690083	Adjuster-Rocker Arm
20	391086s	• Seal-Oil (PTO Side)	209	694867	Spring-Governor
21	281658s	Cap-Oil Fill	211	695307	Spring-Governed Idle
22	794825	Screw (Crankcase Cover/Sump)	219	693578	Gear-Governor
23	794812	Flywheel	220	691724	Washer (Governor Gear)
24	222698s	Key-Flywheel	222	794800	Bracket-Control
25	793794	Piston Assembly (Standard)	227	694864	Lever-Governor Control
	793797	Piston Assembly (.020" Oversize)	271	698035	Lever-Control
26	793319	Ring Set (Standard)	278	792008	Washer (Governor Control Lever)
	793324	Ring Set (.020" Oversize)	281	697268	Panel-Control
27	690975	Lock-Piston Pin	287	699629	Screw (Dipstick Tube)
28	696581	Pin-Piston	300	794948	Muffler
29	694691	Rod-Connecting	304	791478	Housing-Blower
30	694692	Dipper-Connecting Rod	305	699480	Screw (Blower Housing)
32	690976	Screw (Connecting Rod)	306	697240	Shield-Cylinder
33	499596	Valve-Exhaust	307	794822	Screw (Cylinder Shield)
34	792200	Valve-Intake	309	793524	Motor-Starter
35	694865	Spring-Valve (Intake)	332	794824	Nut (Flywheel)
36	694865	Spring-Valve (Exhaust)	333	492341	Armature-Magneto
4 2	499586	Keeper-Valve	334	699477	Screw (Magneto Armature)
45	690977	Tappet-Valve	337	691043	Plug-Spark
46	790958	Camshaft	356	793206	Wire-Stop
51	694874	•+ Ø ‡ Gasket-Intake	358	697715	Gasket Set-Engine
51A	694875	•+ Ø ‡ Gasket-Intake	369	695422	Spring-Float Bowl
53	795017	Stud (Carburetor)	383	19374s	Wrench-Spark Plug
55	696710	Housing-Rewind Starter	410	695382	Link-Control
58	693389	Rope-Starter (Cut to Length)	427	694255	Nut (Control Bracket)
60	695740	Grip-Starter Rope	455	795011	Cup-Flywheel
65	699851	Screw (Starter Motor)	456	692299	Plate-Pawl Friction
95	690718	Screw (Throttle Valve)	459	281505s	Pawl-Ratchet
97	696387	Shaft-Throttle	472	791948	Knob-Choke Shaft
98	695408	Ø Kit-Idle Speed	474	793640	Alternator
104	694918	Ø Pin-Float Hinge	485	695755	Knob-Control
105	696136	Ø Valve-Float Needle	504	694254	Washer Set-Friction
108	696736	Valve-Choke	505	691251	Nut (Governor Control Lever)
109	793162	Shaft-Choke	523	695344	Dipstick
117	696134	Ø Jet-Main (Standard)	524	691876	Seal-O Ring (Dipstick Tube)
118	696135	Ø Jet-Main (High Altitude)	525	795343	Tube-Dipstick
121	696146	Kit-Carburetor Overhaul	528	793006	Hose-Primer

KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
529	791822	Grommet	1023	698042	Cover-Rocker
552	694674	Bushing-Governor Crank	1026	695177	Rod-Push
562	793216	Bolt (Governor Control Lever)	1029	690972	Arm-Rocker
564	699854	Screw (Control Cover)	1036	- - -	Label-Emissions (Available from an authorized B&S Service Dealer)
597	691696	Screw (Pawl Friction Plate)	1070	794821	Screw (Flywheel Fan)
601	791850	Clamp-Hose	1095	695440	Gasket Set-Valve
604	696758	Cover-Control	1100	791959	Pivot-Rocker Arm
604A	790473	Cover-Control	1119	699772	Screw (Alternator)
608	699335	Starter-Rewind	1127	695407	Screw (Float Bowl)
610	794541	Arrester-Intake	1171	794828	Stud (Rocker Arm Cover)
613	794846	Screw (Muffler)	1196	696692	Screw (Snow Hood)
613A	794844	Screw (Muffler)	1210	498144	Pulley/Spring Assembly (Pulley)
615	694676	Retainer-Governor Shaft	1211	498144	Pulley/Spring Assembly (Spring)
616	694675	Crank-Governor	1230	699847	Stud (Control Bracket)
621	692310	Switch-Stop	1251	696762	Shield-Snow
632	695917	Spring/Link-Mechanical Governor	1251A	790471	Shield-Snow
633	690998	Ø ‡ Seal-Choke/Throttle Shaft	1252	699480	Screw (Snow Shield)
635	691909	Boot-Spark Plug	1288	794838	Nut (Snow Hood)
663	699854	Screw (Control Panel)	1298	795016	Nut (Heat Shield)
668	794539	Spacer	1318	698111	Knob-Snow Hood
668A	694257	Spacer	1351	794847	Stud (Cylinder Shield)
676	697816	Deflector-Muffler			
677	699776	Screw (Muffler Deflector)			
689	691855	Spring-Friction			
697	795012	Screw (Starter Motor)			
718	690959	Pin-Locating			
718A	695178	Pin-Locating			
725	696756	Shield-Heat			
727	697465	Cover-Starter Drive			
731	793174	Hood-Snow			
731A	794550	Hood-Snow			
732	699200	Screw (Starter Drive Cover)			
741	691288	Gear-Timing			
742	692564	Retainer-E Ring			
746	694679	Gear-Idler			
773	694258	Retainer-E Ring			
798	697890	Screw (Rocker Cover)			
832	699223	Guard-Muffler			
836	699234	Screw (Muffler Guard)			
842	795015	Seal-O Ring (Dipstick Tube)			
847	790476	Dipstick/Tube Assembly			
851	692424	Terminal-Spark Plug			
868	794086	•+ Seal-Valve			
883	695398	•+ Gasket-Exhaust			
892	791944	Switch-Key			
914	794827	Screw (Rocker Cover)			
930	696709	Guard-Rewind			
957	698109	Cap-Fuel			
972	694260	Tank-Fuel			
975	696138	Bowl-Float			
977	696147	Gasket Set-Carburetor			
990	695756	Key Set			
998	792928	Pipe-Oil			
1005	794815	Fan-Flywheel			
1011	794544	Tube-Vent			
1022	690971	•+ Gasket-Rocker Cover			

•Included in Engine Gasket Set, Key Number 358

ØIncluded in Carburetor Overhaul Kit, Key Number 121

‡Included in Carburetor Gasket Set, Key Number 977

+Included in Valve Gasket Set, Key Number 1095

NOTE: All component dimensions given in U.S. inches.
1 inch = 25.4 mm

Engine Power Rating Information

The gross power rating for individual gas engine models is labeled in accordance with SAE (Society of Automotive Engineers) code J11940 (Small Engine Power & Torque Rating Procedure), and rating performance has been obtained and corrected in accordance with SAE J1995 (Revision 2002-5). Actual gross engine power will be lower and is affected by, among other things, ambient operating conditions and engine-to-engine variability. Given both the wide array of products on which engines are placed and the variety of environmental issues applicable to operating the equipment, the gas engine will not develop the rated gross power when used in a given piece of power equipment (actual "on-site" or net horsepower). This difference is due to a variety of factors including, but not limited to, accessories (air cleaner, exhaust, charging, cooling, carburetor, fuel pump, etc.), application limitations, ambient operating conditions (temperature, humidity, altitude), and engine-to-engine variability. Due to manufacturing and capacity limitations, Briggs & Stratton may substitute an engine of higher rated power for this Series engine.