

LAWN-BOY®

522R Snowthrower

Model No. 28230—200000001 and Up

Parts Catalog

Ordering Replacement Parts

To order replacement parts, please supply: the part number, the quantity, and the description of each part desired.

Understanding Reference Numbers

Each identified part in an illustration has a reference number. The reference number for a part also appears in the parts list, along with other information about the part.

This catalog uses two special reference number formats, one to indicate parts in a service assembly and another to indicate the quantity of a given part in an illustration.

Service Assembly Reference Numbers

Parts in service assemblies have reference numbers in the form **a:b**. The **a** represents the reference number of the entire service assembly and the **b** represents a sequential number unique to each part within the service assembly.

For example, a wheel assembly might be identified by reference number **6**, the tire by **6:1**, the valve by **6:2**, and the wheel by **6:3**. When you order the assembly identified by reference number **6**, you receive all parts identified by reference numbers **6:1**, **6:2**, and **6:3**. However, you may also order any part individually.

Reference numbers of this type appear in illustrations and in part lists.

Reference Numbers Indicating Quantity

In an illustration, if a reference number indicates more than one part, the reference number has the form **nX y**. The **n** represents the quantity of the part, the **X** is the multiplication symbol, and the **y** represents the reference number.

For example, in an illustration, the reference number **2X 37** means that two of the parts identified by reference number **37** are indicated.

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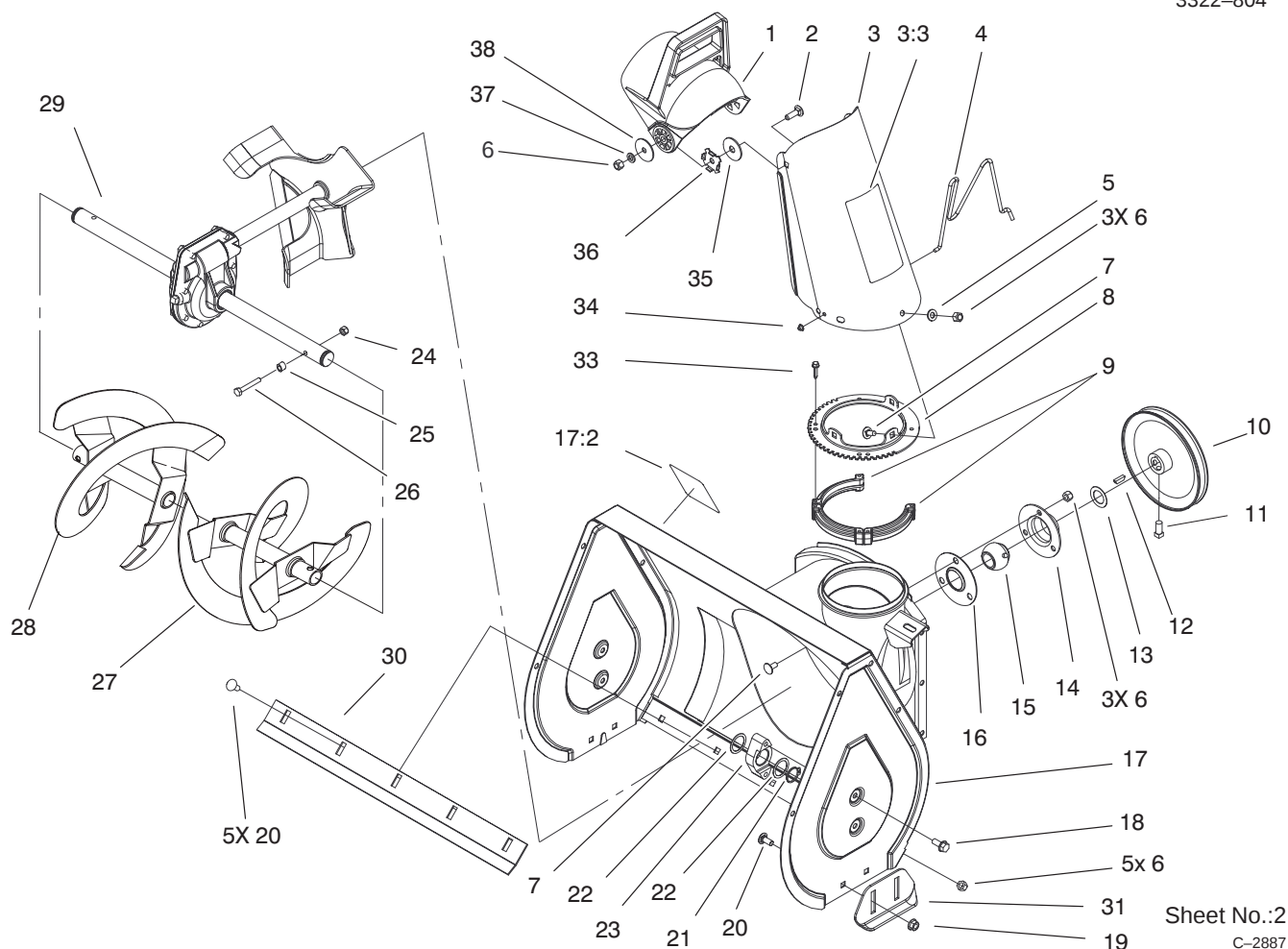
Accessories

Description	Model / Part No.	Description	Model / Part No.
110 Vac Electric Starter Kit	38036	Drift Breaker Kit	37–7022
Tire Chain Kit	56–2700		

Part Description Abbreviations

Part descriptions in this catalog may include the following abbreviations.

Abbreviation	Meaning	Abbreviation	Meaning
AR	as required	INC	incorporated
ASM	assembly	LH	left hand
CARR	carriage	NI	nylon insert
DEG	degrees	PPH	Phillips pan head
FH	flat head	PTH	Phillips truss head
GA	gauge	PTO	power take off
HF	hex flange	RH	right hand
HH	hex head	SFH	slotted fillister head
HHF	hex head flange	SHH	slotted hex head
HLH	hex lag head	SQH	square head
HJ	hex jam	SHWH	slotted hex washer head
HOC	height-of-cut	SPH	slotted pan head
HS	hex socket	SRH	slotted round head
HSBH	hex socket button head	STD	standard
HSFH	hex socket flat head	TAP	self tapping
HSH	hex socket head	TTH	Torx truss head
HWH	hex washer head	WH	wing head
HWHTF	hex washer head thread forming		

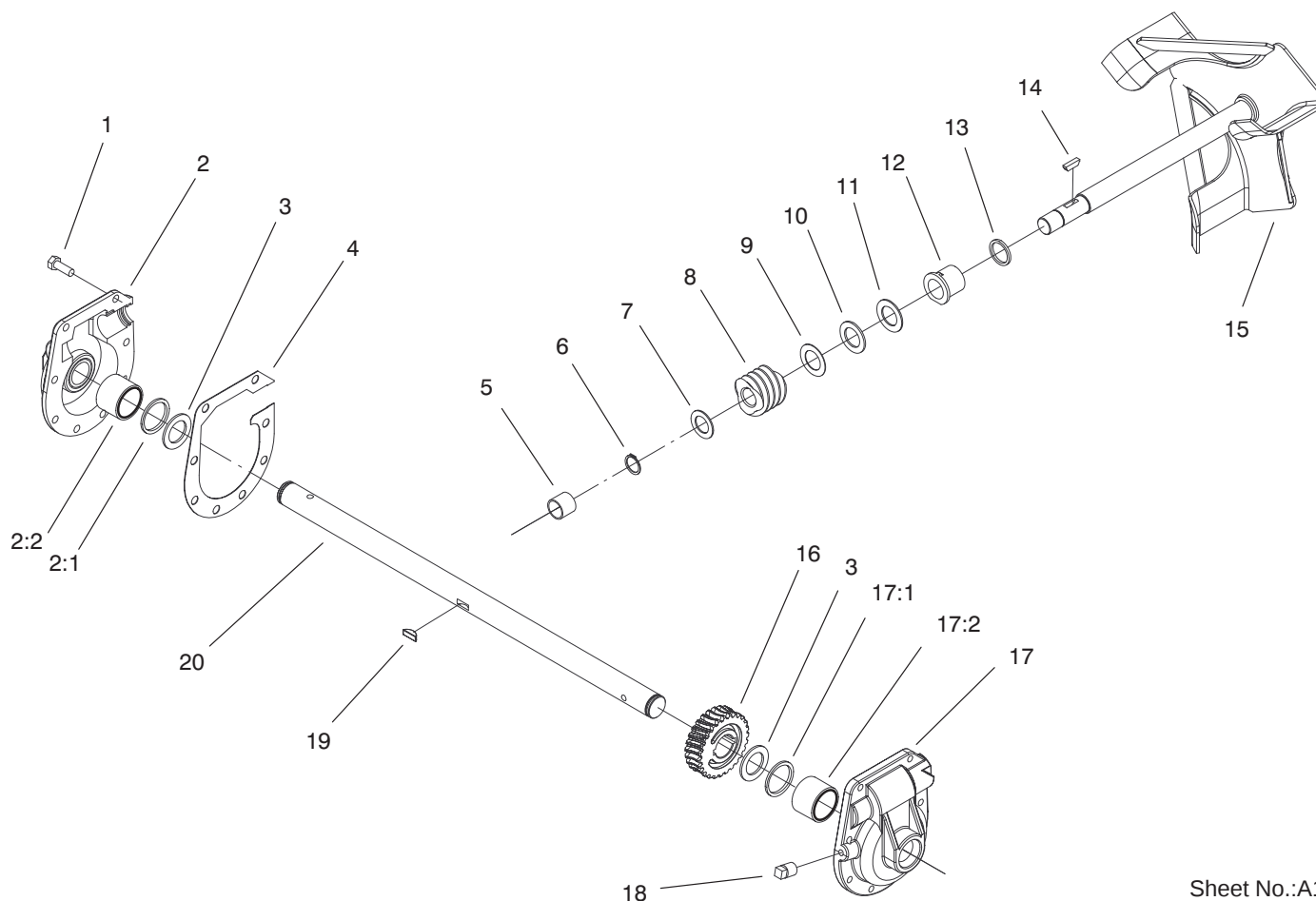


Sheet No.:2

C-2887

Chute and Auger Assembly

Ref. No.	Part No.	Qty.	Description	Ref. No.	Part No.	Qty.	Description
1	56-2680	1	Chute-Deflector	25	66-8010	2	Spacer-Hub, Impeller
2	3230-22	2	Screw-CARR	26	321-11	2	Screw-HH
3	94-2793	1	Chute ASM	27	98-2271-03	1	Auger, LH
3:3	94-8079	1	Decal-Danger	28	98-2270-03	1	Auger, RH
4	56-2670	1	Wire-Chute	29	37-6962	1	22" Gear Case ASM
5	3256-23	3	Washer-Flat	30	100-3554-02	1	Blade-Scraper
6	3296-29	13	Nut-Lock	31	40-8160-02	2	Skid
7	3230-18	6	Screw-CARR	33	27-0220	6	Screw-Special
8	37-8941-03	1	Ring-Chute	34	3290-326	1	Nut-Push
9	37-6490	3	Ring-Chute, Retainer	35	20-4320	2	Washer-Rubber
10	37-6890	1	Pulley	36	55-8950	2	Plate-Friction
11	3242-4	2	Screw-SQH Set	37	3290-456	2	Washer-Belleville
12	3257-23	1	Key-Woodruff	38	3256-68	2	Washer-Flat
13	3-0737	1	Washer				
14	26-6110	1	Flange-Cup, Bearing				
15	63-3450	1	Bearing-Ball				
16	26-6120	1	Flange-Cup, Bearing				
17	94-9870	1	Auger Housing ASM				
17:2	53-7670	1	Decal-Warning, Auger				
18	32144-70	4	Screw-HH				
19	32128-20	4	Nut-HF				
20	3230-1	9	Screw-CARR				
21	32151-36	2	Ring-Retaining				
22	5-1550	4	Washer				
23	37-6550	2	Bearing-Auger				
24	3296-42	2	Nut-Lock				

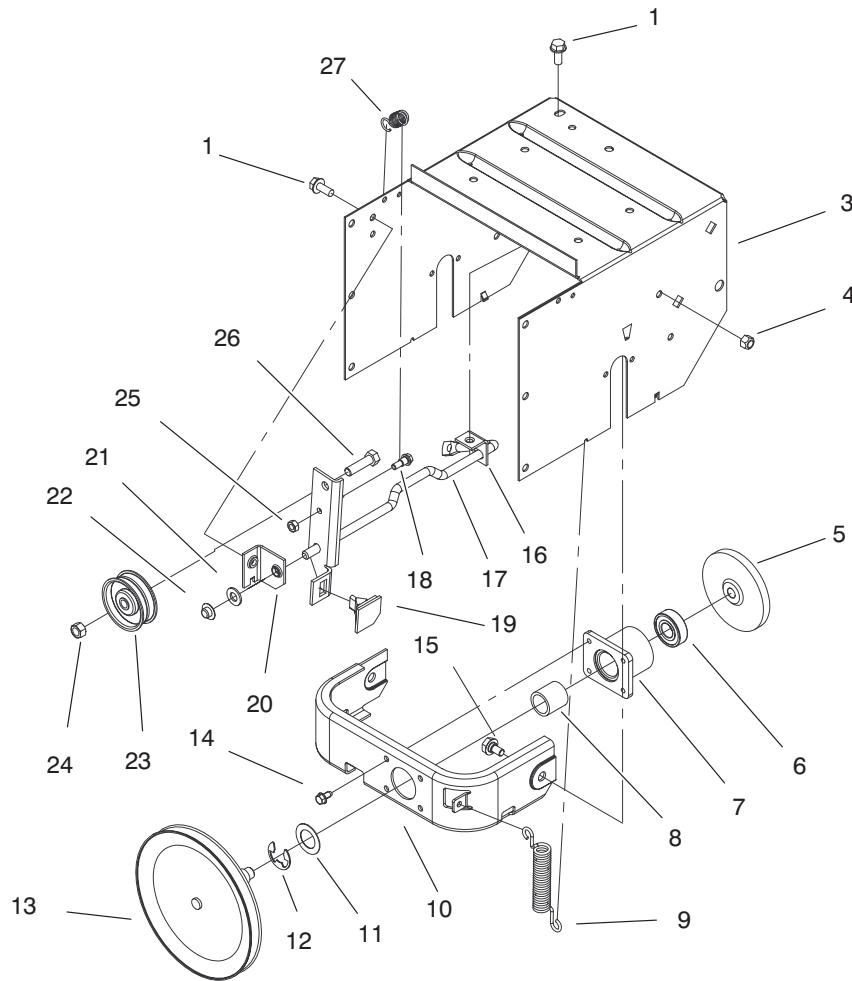


Sheet No.:A1
C-2852

22" Gear Case Assembly No. 37-6962

Ref. No.	Part No.	Qty.	Description
1	32144-41	8	Screw-Taptite
2	14-2449	1	Gear Case, RH
2:1	7-0045	1	Seal-Oil
2:2	256-237	1	Bushing
3	252-71	2	Bearing-Thrust
4	51-0460	1	Gasket-Gear Box
5	256-32	1	Bushing
6	32120-72	1	Ring-Snap
7	3-8664	1	Washer-Thrust
8	5-7170	1	Gear
9	252-80	1	Bearing-Thrust
10	252-76	1	Bearing-Thrust
11	257-3	1	Washer-Thrust
12	37-6560	1	Bushing-Input
13	237-87	1	Ring-Quad
14	3257-23	1	Key-Woodruff
15	37-6990-03	1	Shaft-Impeller
16	5-7180	1	Gear-Worm 21 T
17	14-2459	1	Gear Case, LH
17:1	7-0045	1	Seal-Oil
17:2	256-237	1	Bushing
18	281-1	1	Plug-SQH Pipe
19	3257-33	1	Key-Woodruff
20	37-6802	1	Shaft-Auger

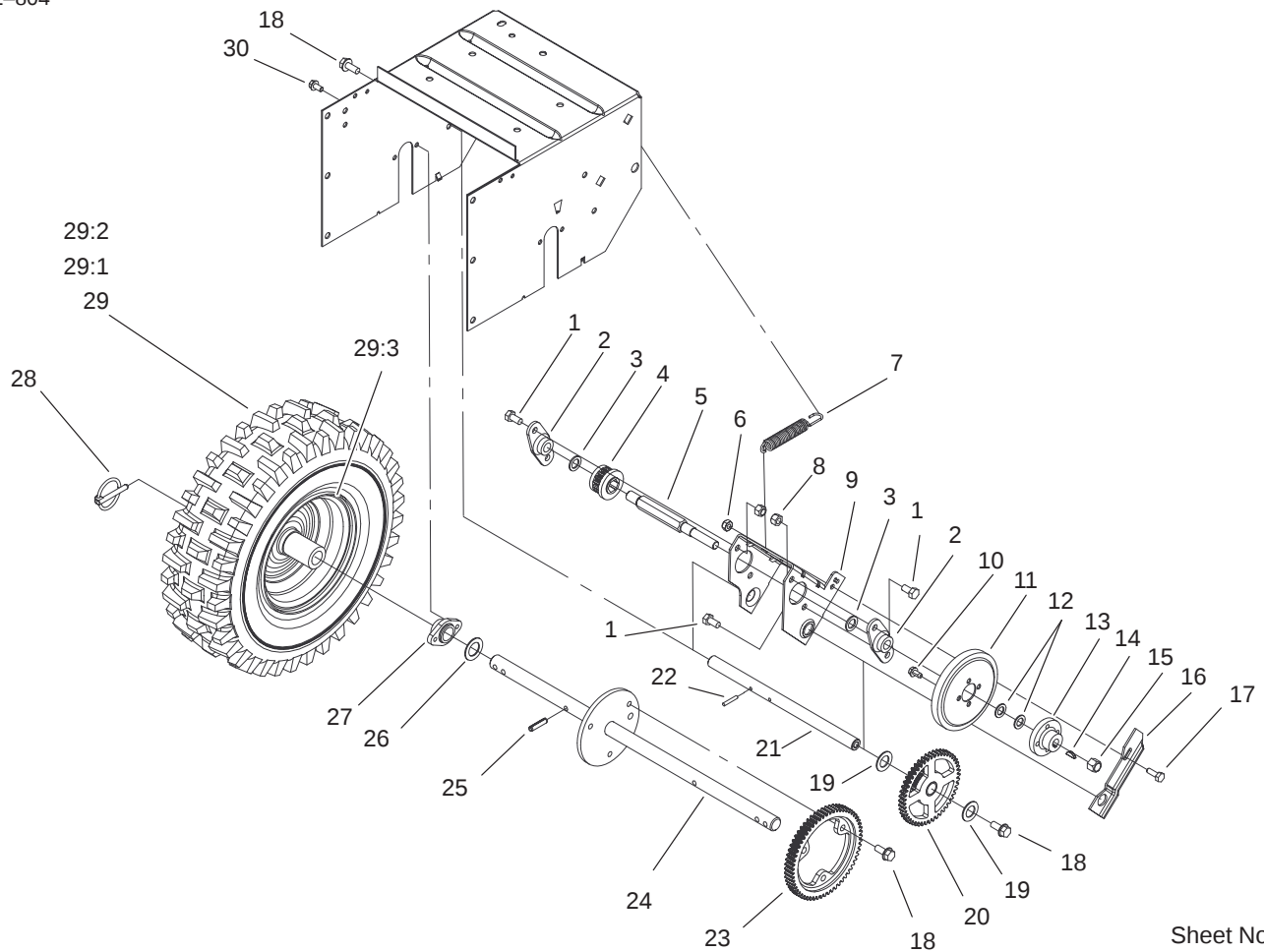
Ref. No.	Part No.	Qty.	Description



Sheet No.:3

Traction Assembly

Ref. No.	Part No.	Qty.	Description	Ref. No.	Part No.	Qty.	Description
1	32144-70	2	Screw-HH	26	323-29	1	Screw-HH
3	37-8900-02	1	Frame-Traction	27	53-7570	1	Spring
4	3296-29	2	Nut-Lock				
5	38-0800	1	Plate-Friction				
6	38-7820	1	Bearing-Ball				
7	88-0560	1	Hub-Frame, Traction				
8	256-322	1	Bushing				
9	37-8870	1	Spring-Plate,Friction				
10	88-0550-03	1	Frame-Front				
11	252-80	1	Bearing-Thrust				
12	32151-103	1	Ring-Snap				
13	88-0850	1	Pulley & Drive ASM				
14	12-3270	4	Screw				
15	37-8770	2	Bolt-Shoulder				
16	37-9070	1	Bracket-Mount Clutch, Rear				
17	40-6511-03	1	Rod-Clutch, Auger				
18	42-3560	1	Bolt-Shoulder				
19	66-8060	1	Pad-Brake				
20	66-6790	1	Bracket-Mount Clutch, Front				
21	3256-24	1	Washer-Flat				
22	3290-320	1	Retainer-Push On				
23	3-4244	1	Pulley-Idler				
24	3296-59	1	Nut-Lock Ni				
25	3296-56	1	Nut-Lock Ni				

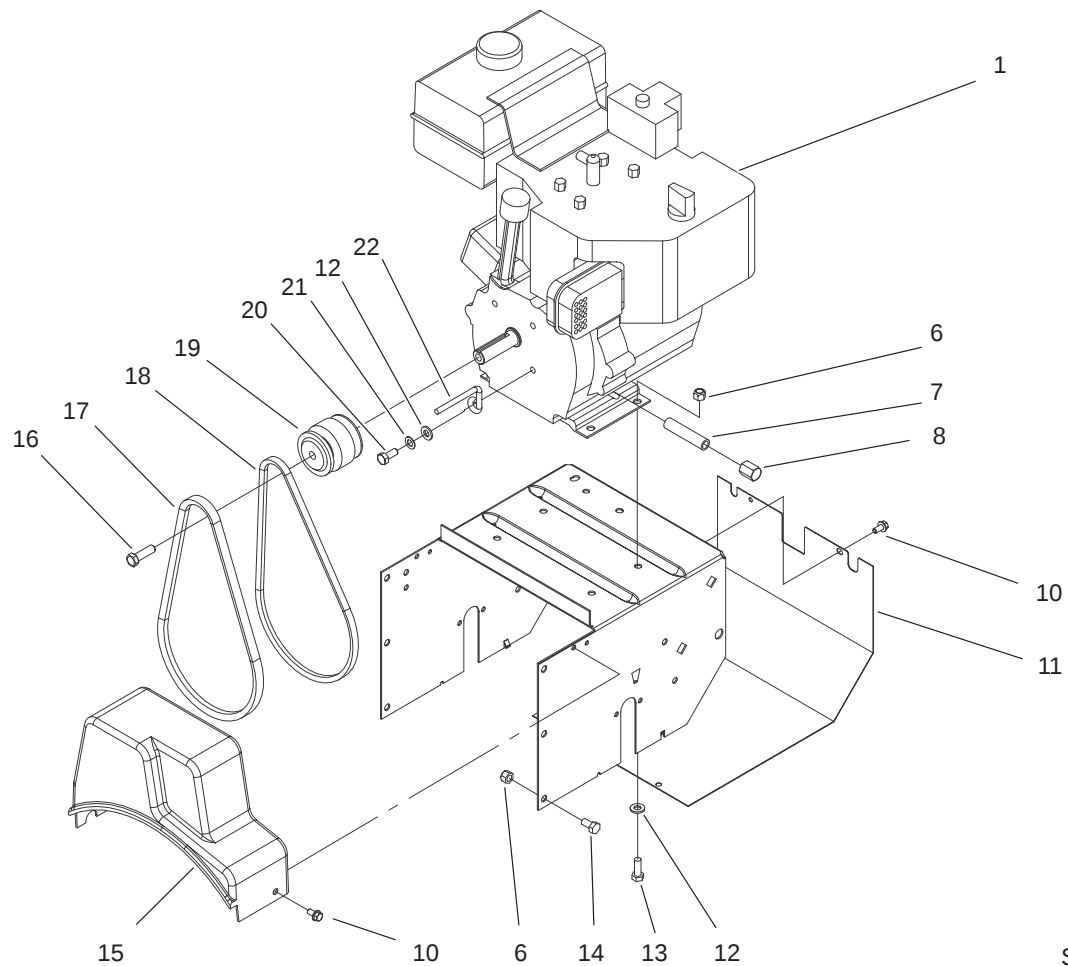


Sheet No.:4

Traction Assembly (Continued)

Ref. No.	Part No.	Qty.	Description
1	322-2	4	Screw-HH
2	20-1620	2	Bearing-Wheel, Friction
3	5-7570	2	Washer-Flat
4	37-6500	1	Pinion
5	37-6780	1	Shaft-Wheel, Friction
6	3296-16	1	Nut-Lock
7	37-8880	1	Spring-Traction
8	3296-29	4	Nut-Lock
9	39-1230	1	Bracket-Sliding
10	12-3270	4	Screw
11	37-6570	1	Wheel-Friction
12	36-4790	2	Washer-Thrust
13	39-1520	1	Hub-Wheel, Friction
14	3257-24	1	Key-Woodruff
15	3296-48	1	Nut-Lock Ni
16	39-1250	1	Cam-Receiver
17	321-4	1	Screw-HH
18	32144-70	5	Screw-HH
19	10-9280	2	Washer-Special
20	37-9160	1	Int. Gear/Bushing ASM
21	37-6760	1	Shaft-Pivot
22	32121-45	2	Pin-Spring
23	37-6520	1	Gear-Axle
24	74-1350	1	Shaft-Axle
25	32121-31	2	Pin-Spring

Ref. No.	Part No.	Qty.	Description
26	3-8664	2	Washer-Thrust
27	37-6850	2	Bearing-Axle
28	3290-243	2	Pin-Lynch
29	98-2287	2	Wheel And Tire ASM
29:1	232-27	1	Stem-Valve
29:2	241-131	1	Rim-Wheel
29:3	700457	1	Tire
30	32144-4	4	Screw-HH

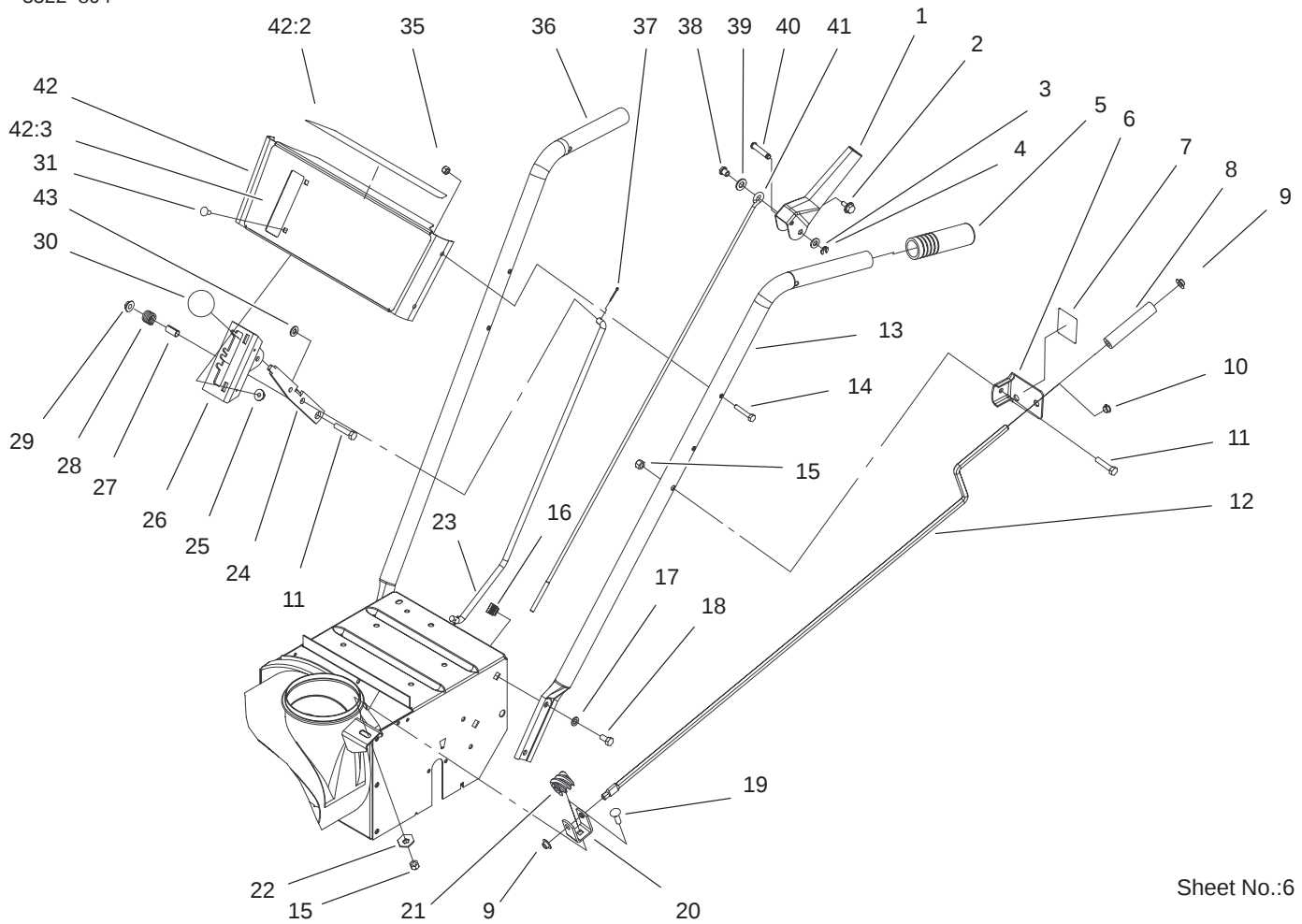


Sheet No.: 5

Engine Assembly

Ref. No.	Part No.	Qty.	Description	Ref. No.	Part No.	Qty.	Description
‡1		1	Engine-5hp, Tecumseh Hssk50-67390				
6	3296-29	10	Nut-Lock				
7	49-3040	1	Pipe-Nipple				
8	281-7	1	Cap-Pipe				
10	32144-4	6	Screw-HH				
11	37-6830-02	1	Cover-Traction, Lower				
12	3256-23	5	Washer-Flat				
13	322-7	4	Screw-HH				
14	322-2	6	Screw-HH				
15	37-6900	1	Cover - Belt				
16	43-7290	1	Screw-Special				
17	37-9080	1	V-Belt				
18	37-9090	1	V-Belt				
19	43-7370	1	Pulley-Engine				
20	3210-3	1	Screw-HH				
21	3255-8	1	Washer-Lock/Ext				
22	37-8990	1	Retainer-Belt				

‡ Obtain locally.

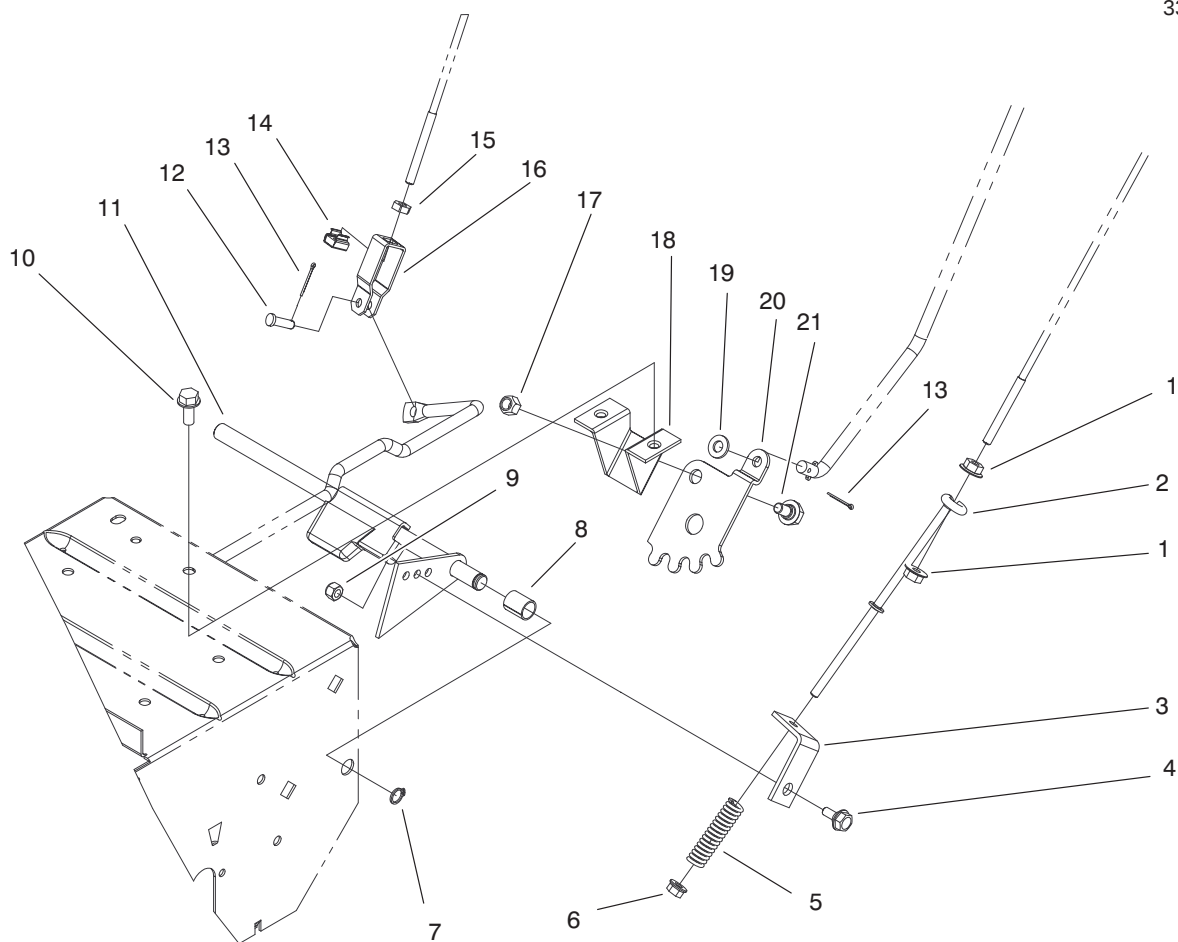


Sheet No.:6

Handle Assembly

Ref. No.	Part No.	Qty.	Description
1	94-8887-03	2	Handle-Control
2	3234-13	2	Screw-HHF
3	3256-23	2	Washer-Flat
4	32151-73	2	Ring-Clip
5	74-1360	2	Grip-Handle
6	25-6090	1	Bracket-Rod, Chute
7	63-3510	1	Decal - Chute Direction
8	40-8230	1	Grip-Chute Control
9	3290-320	2	Retainer-Push On
10	256-249	1	Bushing
11	322-7	2	Screw-HH
12	40-8270	1	Rod-Control, Chute
13	52-5571-03	1	Handle-Left
14	321-9	4	Screw-HH
15	3296-29	2	Nut-Lock
16	3290-196	4	Nut
17	3290-456	4	Washer-Belleville
18	322-2	4	Screw-HH
19	3230-22	1	Screw-CARR
20	40-8280	1	Bracket-Worm
21	40-8250	1	Gear-Worm, Chute
22	3290-238	1	Washer-Lock
23	39-7570	1	Rod-Selector, Speed
24	37-8820-03	1	Selector-Speed
25	32128-33	2	Nut-HF

Ref. No.	Part No.	Qty.	Description
26	39-1280-03	1	Mount-Selector, Speed
27	40-8130	1	Spacer
28	37-9150	1	Spring
29	32128-13	1	Nut-Hex Flange
30	233-21	1	Knob
31	3229-11	2	Screw-CARR
35	3296-42	4	Nut-Lock
36	52-5561-03	1	Handle-Right
37	3272-4	1	Pin-Cotter
38	47-4990	2	Post-Linkage Mounting
39	3256-24	2	Washer-Flat
40	52-5600	2	Pin-Lever, Control
41	52-5590	2	Link-Upper
42	99-5960	1	Panel ASM
42:2	95-2698	1	Decal - Escutcheon Back
42:3	94-8098	1	Decal - Escutcheon
43	3256-23	1	Washer-Flat

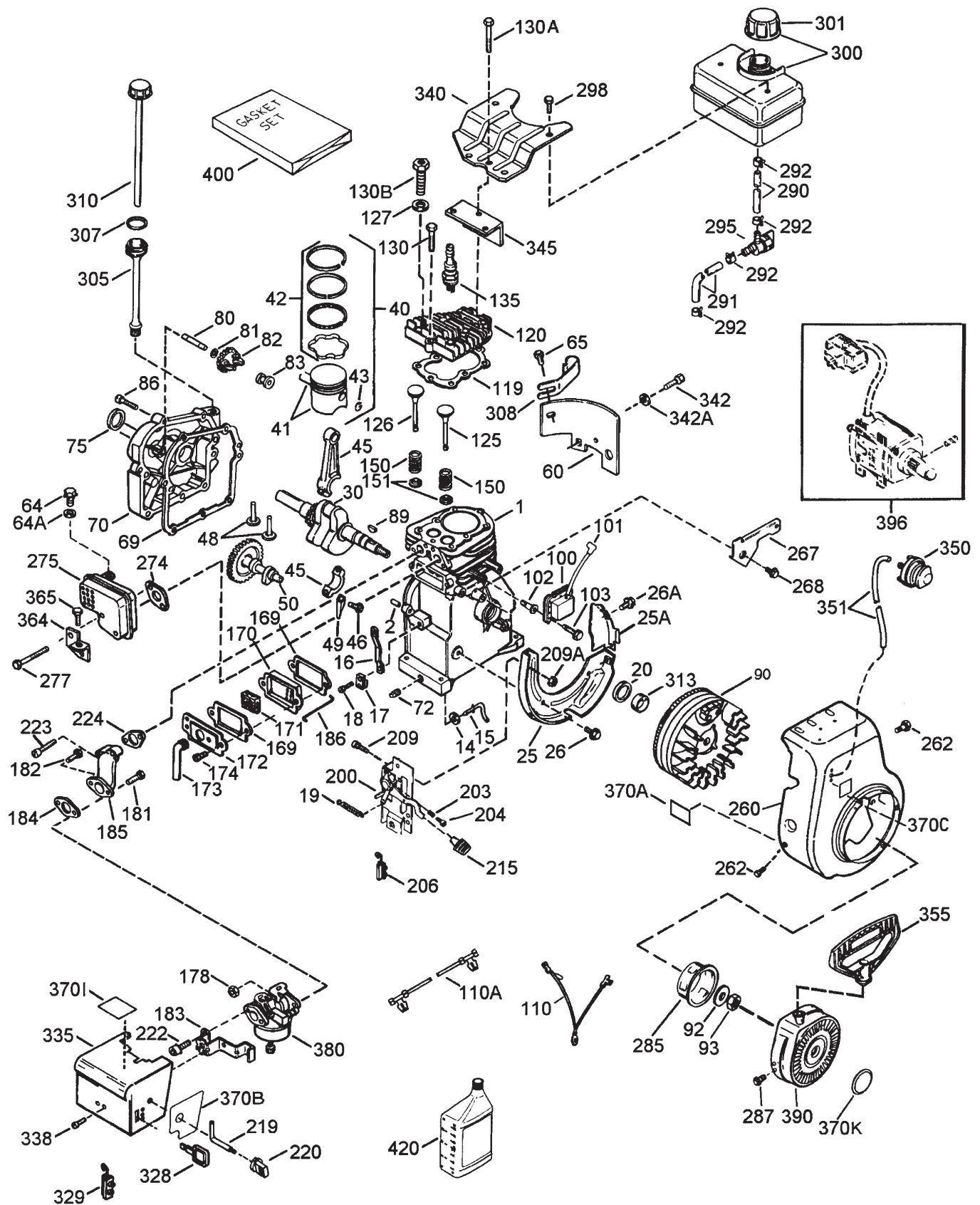


Sheet No.:7

Linkage and Traction Assembly

Ref. No.	Part No.	Qty.	Description
1	32128-33	1	Nut-HF
2	39-3060	1	Rod-Traction, Lower
3	38-4490	1	Bracket-Traction
4	40-8350	1	Screw
5	38-4520	1	Spring
6	32128-32	2	Nut-Hex, Flange
7	32151-61	1	Ring-Retaining
8	40-9680	1	Spacer
9	3296-42	1	Nut-Lock
10	32144-70	2	Screw-HH
11	43-7310-03	1	Traction Arm Assembly
12	283-3	1	Pin-Clevis
13	3272-4	2	Pin-Cotter
14	32115-5	1	Nut-Retained
15	3218-1	1	Nut-Jam
16	39-3080	1	Clevis
17	3296-29	1	Nut-Lock
18	37-8790	1	Mount-Lever
19	3256-23	1	Washer-Flat
20	37-8800	1	Gear-Quadrant
21	37-8770	1	Bolt-shoulder

Engine Tecumseh Model HSSK50-67390S



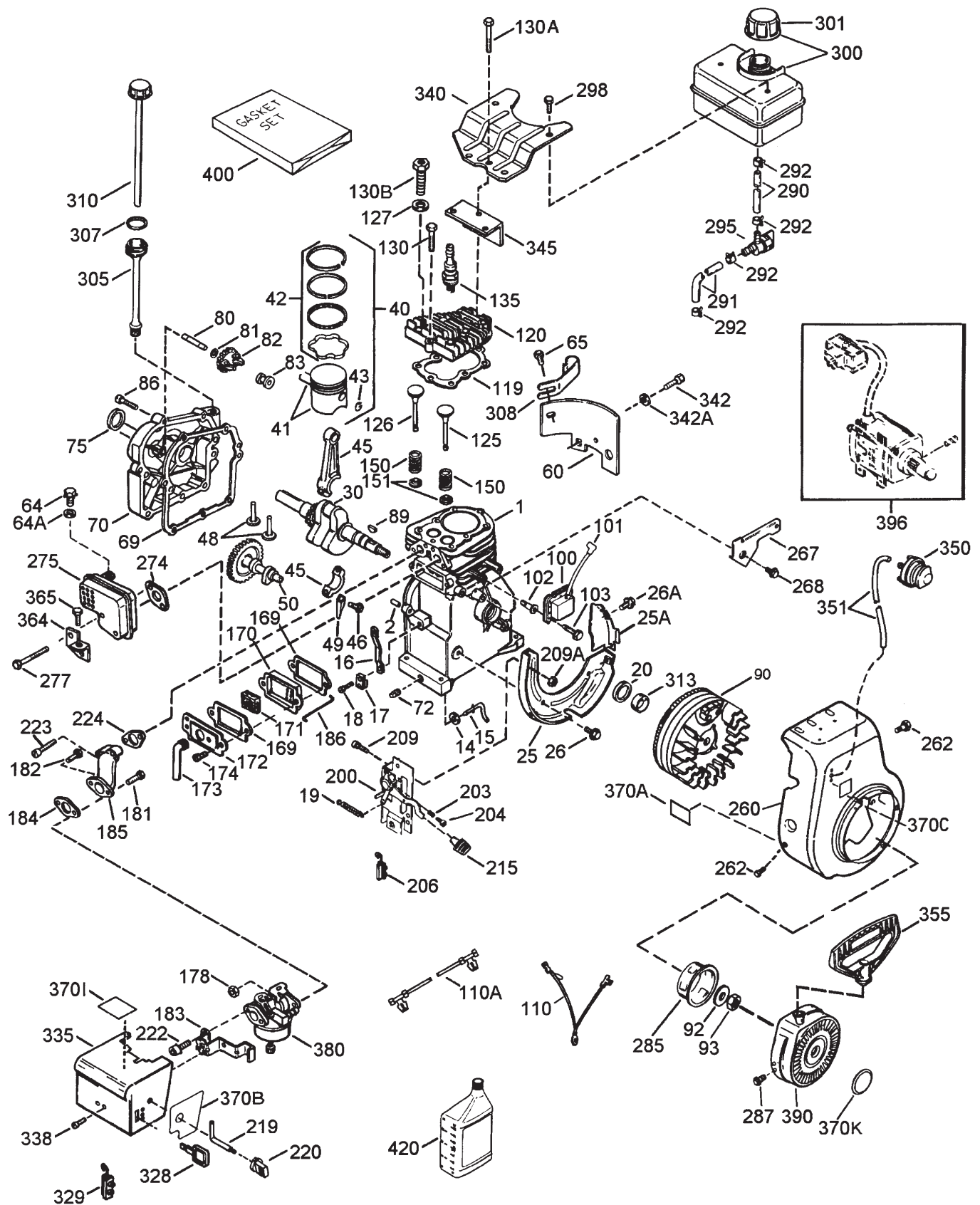
Engine Tecumseh Model HSSK50-67390S

Ref. No.	Part No.	Qty.	Description	Ref. No.	Part No.	Qty.	Description
1	36469A	1	Cylinder Assembly (Incl. Ref. #2, 20, 72 & 125)	92	650815	1	Washer – Belleville
2	26727	2	Pin – Dowel	93	650816	1	Nut – Flywheel
14	28277	1	Washer – Flat	100	34443B	1	Solid State Assembly
15	31334	1	Rod – Governor	101	610118	1	Cover – Spark Plug
16	31510	1	Lever – Governor	102	651024	2	Stud
17	31335	1	Clamp – Governor Lever	103	651007	2	Screw – Torx
18	651018	1	Screw – Torx	110	35182	1	Wire – Ground
19	31426	1	Spring – Extension	110A	36874	1	Ground Wire
20	32600	1	Seal – Oil	119	*36443	1	Gasket – Cylinder Head
25	36552	1	Baffle – Blower Housing	120	36441	1	Head – Cylinder (Incl. Ref. #131)
25A	35883	1	Extension – Baffle	125	36471	1	Valve – Exhaust Standard (Incl. Ref. #151)
26	650802	2	Screw – Hex Washer Hd.		36472	1	Valve – Exhaust 1/32" oversize (Incl. Ref. #151)
26A	650926	1	Screw	126	32644A	1	Valve – Intake Standard (Incl. Ref. #151)
30	34740	1	Crankshaft Assembly		32645A	1	Valve – Intake 1/32" oversize (Incl. Ref. #151)
40	36073	1	Piston–Pin & Ring Asm. Standard	127	650691	1	Washer – Flat
	36074	1	Piston–Pin & Ring Asm. .010" oversize	130	6021A	2	Screw – Hex Flange Hd.
	36075	1	Piston–Pin & Ring Asm. .020" oversize	130A	650694A	5	Screw – Hex Flange Hd.
41	36070	1	Piston & Pin Asm.. Standard (Incl. Ref. #43)	130B	650818	1	Screw – Special
	36071	1	Piston & Pin Assembly .010" oversize (Incl. Ref. #43)	135	35395	1	Plug – Spark (RJ-19LM or equivalent)
	36072	1	Piston & Pin Assembly .020" oversize (Incl. Ref. #43)	150	31672	2	Spring – Valve
42	36076	1	Ring Set – Piston Std.	151	31673	2	Cap – Valve Spring
	36077	1	Ring Set – Piston .010" oversize	169	*27234A	2	Gasket – Valve Cover
	36078	1	Ring Set – Piston .020" oversize	170	27666	1	Body – Valve Cover
43	20381	2	Ring – Piston Pin Retaining	171	31410	1	Element – Valve Body
45	32875A	1	Connecting Rod Asm. (Incl. Ref. #46 & 49)	172	34146	1	Cover – Breather
46	32610A	2	Bolt – Connecting Rod	173	35350	1	Tube – Breather
48	27241	2	Lifter – Valve	174	650783	2	Screw – Hex Hd.
49	32654	1	Dipper – Oil	178	29752	2	Nut & Lockwasher
50	33158	1	Camshaft	181	650870	1	Screw – Hex Hd.
60	29745	1	Extension – Blower	182	6201	1	Screw – Hex Hd.
64	30063	1	Screw – Hex Washer Hd.	183	34583A	1	Bracket – Choke
64A	8345	1	Washer – Flat	184	*26756	1	Gasket – Carburetor
65	650128	1	Screw – Hex Hd.	185	33691	1	Pipe – Intake
69	*27677A	1	Gasket – Cylinder Cover	186	32698	1	Link – Governor to Throttle
70	34674C	1	Cover – Cylinder (Incl. Ref. #75 & 80)	200	36677	1	Control Assembly (Incl. Ref. # 203, 204, 206, 209 & 209A)
72	27642	2	Plug – Pipe	203	31342	1	Spring – Compression
75	27897	1	Seal – Oil	204	651029	1	Screw – Fil. Hd.
80	30574A	1	Shaft – Governor	206	610973	1	Terminal Assembly
81	30590A	1	Washer – Flat	209	650139	2	Screw
82	30591	1	Gear – Governor (Incl. Ref. #81)	209A	30322	2	Lock Nut
83	30588A	1	Spool – Governor	215	35440	1	Knob – Speed Control
86	650488	7	Screw – Hex Hd.	219	34582	1	Rod – Choke
89	610961	1	Key– Flywheel	220	35438	1	Knob – Choke Control
90	611199	1	Flywheel – w/Ring Gear	222	28820	2	Screw – Fil. Hd.
				223	650664	2	Screw – Fil Hd.
				224	*33673A	1	Gasket – Intake

Note: Order individual parts from your local Tecumseh dealer.

* Indicated Parts included in Gasket Set Ref.#400

Engine Tecumseh Model HSSK50-67390S

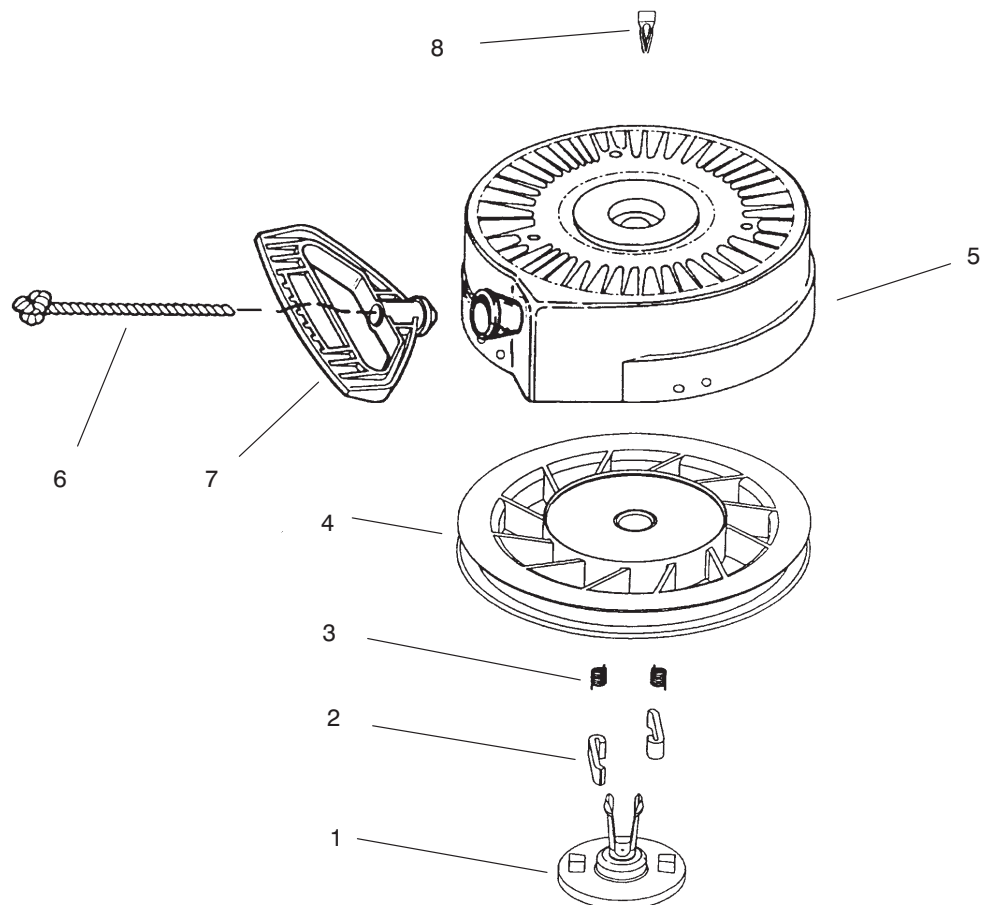


Engine Tecumseh Model HSSK50-67390S (Continued)

Ref. No.	Part No.	Qty.	Description	Ref. No.	Part No.	Qty.	Description
260	35656A	1	Housing – Blower				
262	650737	2	Screw – Hex Hd.				
267	34212	1	Bracket – Hold Down				
268	30200	1	Screw–Hex WashersHd.				
274	*33670A	1	Gasket – Exhaust				
275	35771	1	Muffler (Incl. Ref.# 274)				
277	650327	2	Screw – Fil. Hd.				
285	36467A	1	Cup – Starter				
287	650926	2	Screw – Hex Washer Hd.				
290	30705	1	Line – Fuel				
291	29774	1	Line – Fuel				
292	26460	4	Clamp – Fuel Line				
295	35857	1	Valve – Shut–Off				
298	650665	2	Screw – Hex Washer Hd.				
300	35584	1	Tank Assembly – Fuel (Incl. Ref. #292 & 301)				
301	36246	1	Cap – Fuel Tank				
305	35554	1	Tube Asm.. – Oil Fill				
307	35499	1	”O” Ring				
308	35539	1	Clip – Oil Fill				
310	35556	1	Dipstick				
313	34080	1	Spacer – Flywheel Key				
328	35062	2	Ignition Key				
329	610973	1	Terminal				
335	35072	1	Cover – Carburetor				
338	650257	2	Screw – Pan Hd.				
340	36247	1	Plate – Fuel Tank				
342	30063	1	Screw w/Belleville Washer				
342A	650675	1	Washer – Flat				
345	33344	1	Baffle – Heat				
350	570682A	1	Primer Assembly				
351	32180C	1	Line – Primer				
355	590574	1	Handle – Starter				
364	33333	1	Carburetor Cover Bracket				
365	650735	1	Screw				
370A	36261	1	Decal – Lubrication				
370B	35282	1	Control Decal				
370C	36501	1	Primer Decal				
370I	37119	1	Warning Decal				
370K	36695	1	Starter Decal				
380	640084A	1	Carburetor (Incl. Ref. #184)				
390	590742	1	Starter – Rewind				
396	33290E	1	Electric Starter Kit (110 V) (Optional)				
400	36444	1	Gasket Set (Incl. Parts Marked *) (26756 (1), 27234A (2), 27272A (1), 27677A (1) 29673 (1), 36443 (1), 33670A (1), 33673A (1)				
420	730226	1	Oil – 4 Cycle SAE 5W30 (Quart)				

Note: Order individual parts from your local Tecumseh dealer.

* Indicated Parts included in Gasket Set Ref.#400

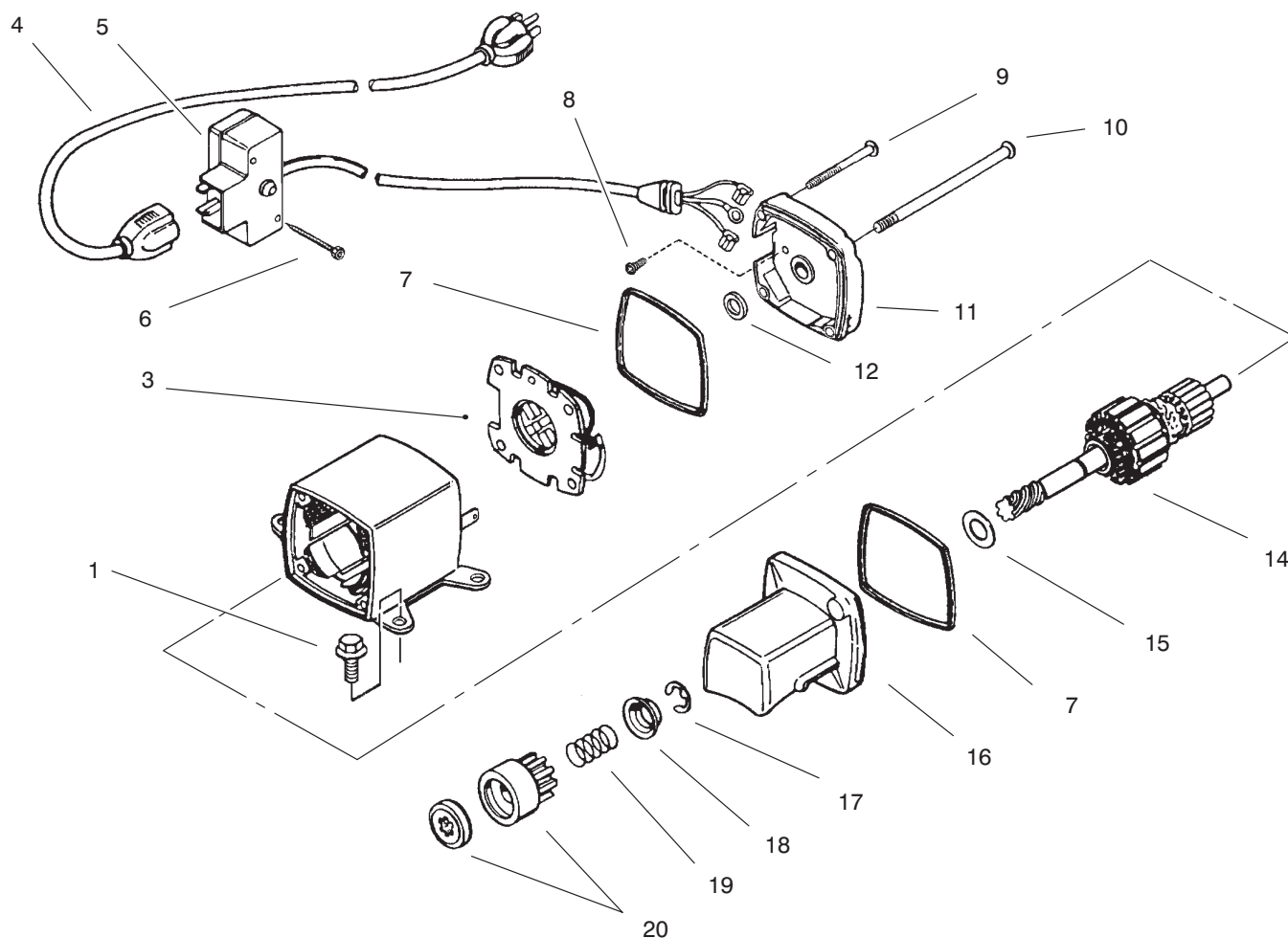


Rewind Starter No. 590742

Ref. No.	Part No.	Qty.	Description
1	590740	1	Retainer
2	590616	2	Starter Dog
3	590617	2	Dog Spring
4	590645A	1	Pulley & Rewind Spring Asm.
5	590647	1	Starter Housing Asm.
6	590535	1	Starter Rope
7	590574	1	Mitten Grip Handle
8	590741	1	Locking Tab

Ref. No.	Part No.	Qty.	Description

Note: Order individual parts from your local Tecumseh dealer.

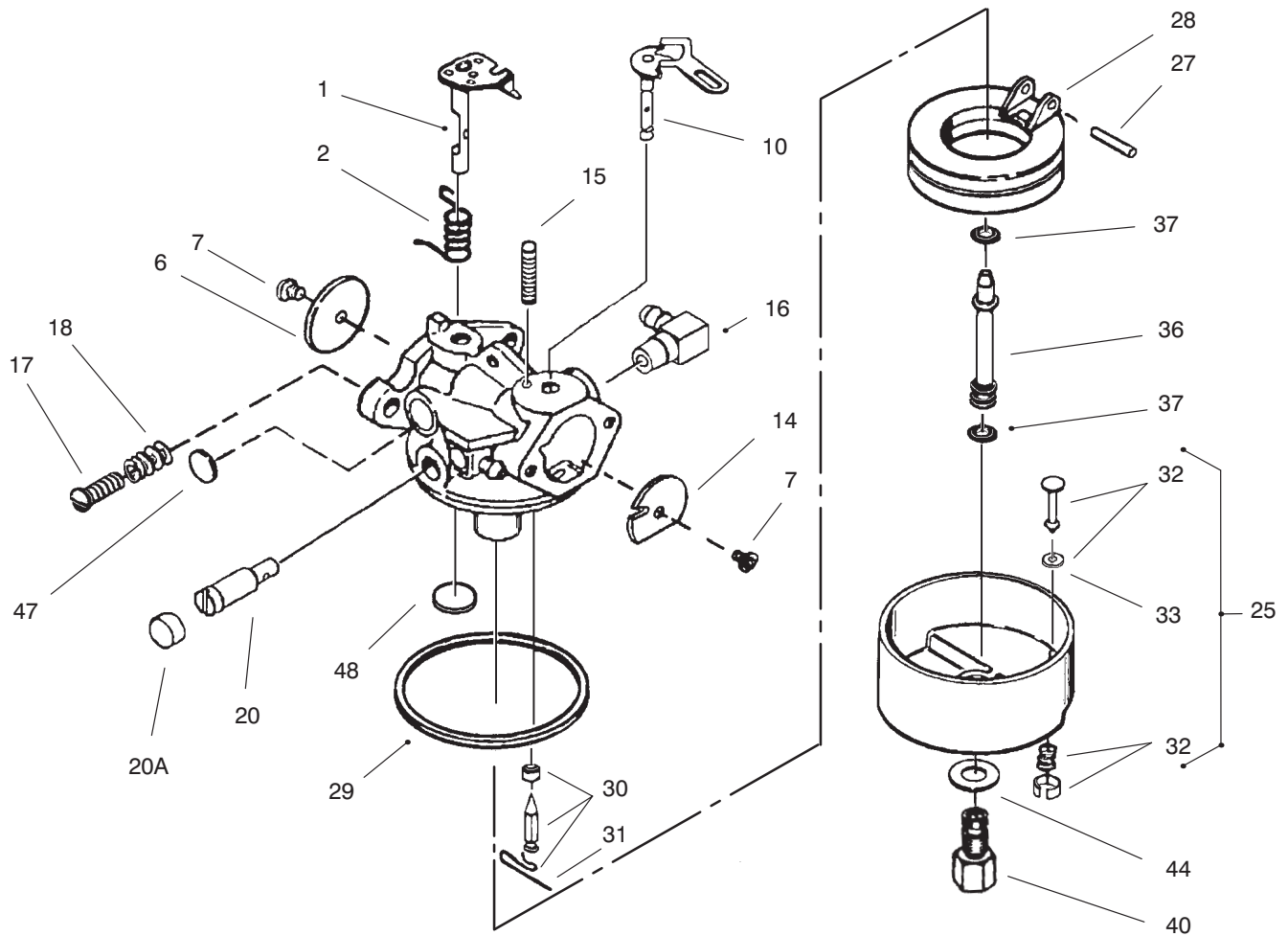


Starter Motor No. 33290E (Optional)

Ref. No.	Part No.	Qty.	Description	Ref. No.	Part No.	Qty.	Description
1	650759	3	Screw – Torx	*	730623	1	Switch Repair Kit
3	35452A	1	Brush & Spring Card Asm				
4	32450B	1	Cord – Extension				
5	35454	1	Switch Box Asm (Incl. Ref. # 6)				
6	650819	2	Screw				
7	35450	2	O'Ring				
8	33441	1	Screw – Ground				
9	35456	1	Screw – Ground				
10	35462	2	Bolt – Case				
11	35453	1	Cap – Commutator End Asm (Incl. Ref. #7)				
12	590500	1	Washer – Thrust				
14	35912	1	Armature				
15	35911	1	Washer – Thrust				
16	35461	1	Cap – Drive End (Incl. Ref. # 7)				
17	31749	1	Ring – Retainer				
18	33522	1	Retainer – Spring				
19	33769	1	Spring – Anti Drift				
20	33524	1	Nut & Gear				
*	33290E	1	Starter – Electric (110 Volt)				

Note: Order individual parts from your local Tecumseh dealer.

* Not Illustrated



Carburetor No. 640084A

Ref. No.	Part No.	Qty.	Description
1	631615	1	Shaft & Lever Assembly
2	631767	1	Throttle Shaft & Lever Asm.
6	640070	1	Throttle Shutter
7	650506	2	Screw – Shutter
10	632108	1	Choke Shaft & Throttle Asm.
14	631890	1	Shutter – Choke
15	630735	1	Spring – Choke Positioning
16	631807	1	Fuel Fitting
17	651025	1	Screw – Idle
18	630766	1	Spring – Tension
20	640018	1	Screw – Idle Restrictor
20A	640053	1	Cap – Idle Restrictor Screw
25	631951	1	Float Bowl Asm. (Incl. Ref. # 32, 33)
27	631024	1	Shaft – Float
28	632019	1	Float
29	631028	1	ORing – Float Bowl
30	631021	1	Inlet Needle – Seat & Clip (Incl. Ref. # 31)
31	631022	1	Clip – Spring
32	27136A	1	Bowl Drain Asm.

Ref. No.	Part No.	Qty.	Description
33	27554	1	Gasket – Drain Plunger
36	632745	1	Main Nozzle Tube
37	632547	2	ORing – Main Nozzle Tube
40	640131	1	Nut – High Speed Bowl
44	27110	1	Bowl Nut Washer
47	630748	1	Welch Plug – Idle Mixture Well
48	631027	1	Welch Plug – Atmospheric Vent
*	640084A	1	Carburetor (Incl. Ref. #1-48)

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* Not Illustrated

Maintenance Record

[illegible]

LAWN-BOY®