



824E Snowthrower

Model No. 28232 - 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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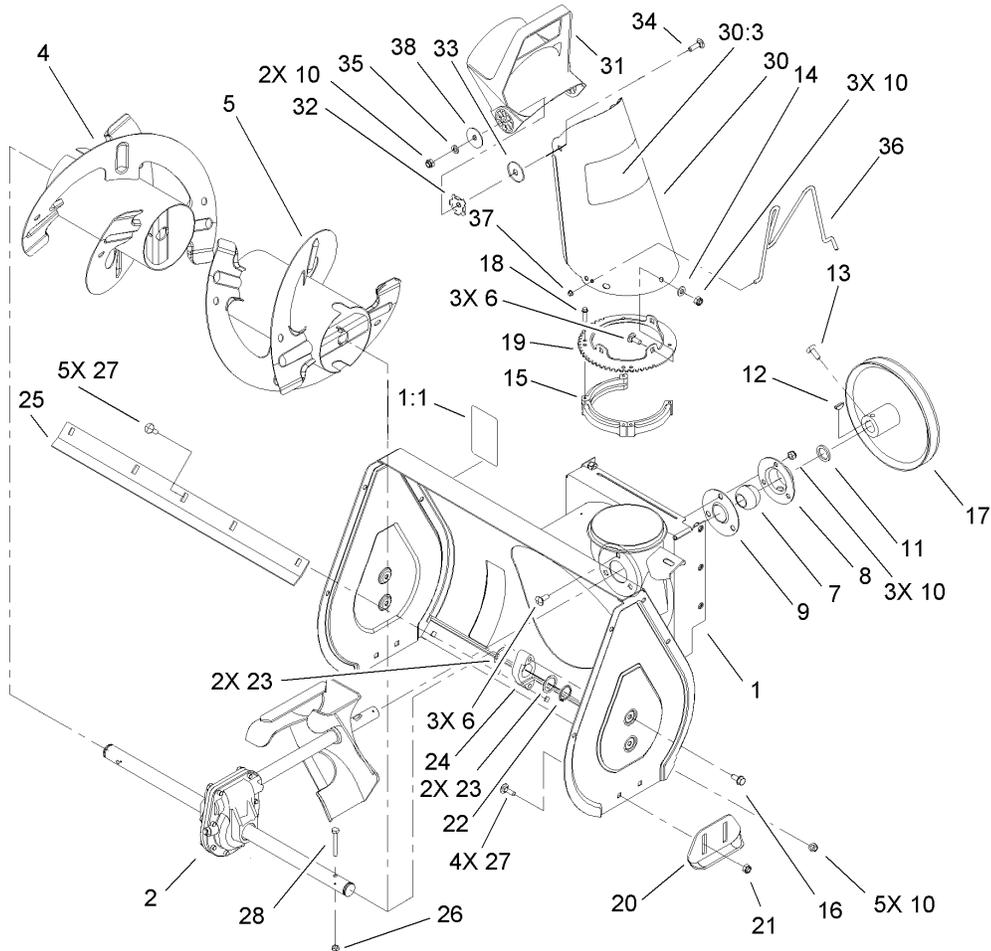
Part Description Abbreviations

Part descriptions in this catalog may include the following abbreviations.

AR. as required	HYD. hydraulic
ASM. assembly	LH. left hand
BBC. blade brake clutch	NI. nylon insert
CARR. carriage	NPTF. national pipe thread fine
DEG. degrees	PFH. phillips flat head
EXT. external	PPH. phillips pan head
FH. flat head	PPHTF. phillips pan head thread forming
GA. gauge	PRH. phillips round head
HD. heavy-duty	PTH. phillips truss head
HF. hex flange	PTO. power-take-off
HH. hex head	RH. right hand
HHF. hex head flange	ROPS. roll-over protection system
HHFTF. hex head flange thread forming	SFH. slotted fillister head
HJ. hex jam	SHH. slotted hex head
HLH. hex lag head	SHWH. slotted hex washer head
HOC. height-of-cut	SPH. slotted pan head
HSBH. hex socket button head	SQH. square head
HSFH. hex socket flat head	SRH. slotted round head
HSH. hex socket head	STD. standard
HWH. hex washer head	TAP. self tapping
HWHTF. hex washer head thread forming	TTH. torx truss head

Footnotes

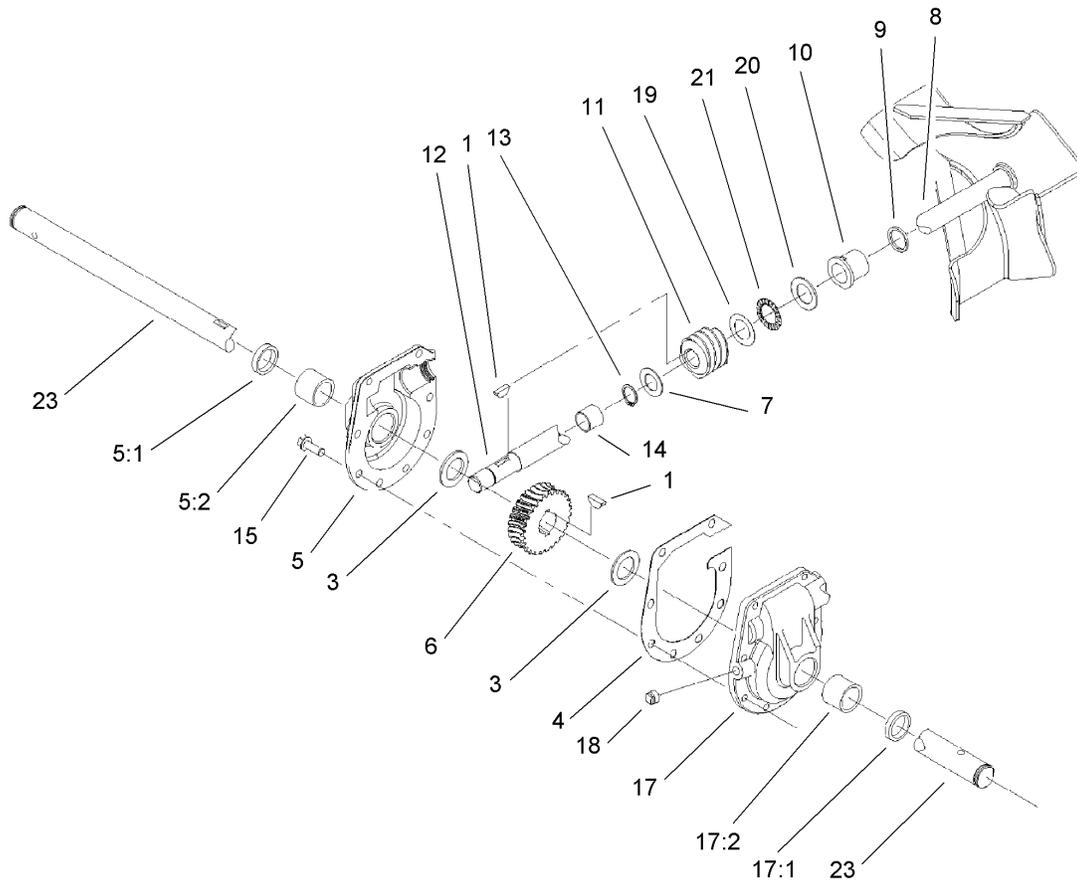
- | | |
|---------------------------------|--|
| ❶ Not illustrated | ❷ Not serviced separately |
| ❸ Not Included with Starter | ❹ Obtain from your local Tecumseh dealer |
| ❺ Included in Gasket Set 36450A | |



Auger and Housing Assembly

Ref	Part No.	Qty.	Description
1	104-9749	1	24 Inch Auger Housing ASM
1:1	53-7670	1	Decal-Warning, Auger
2	95-2674	1	Gear Case ASM
4	74-1600-03	1	24 Inch RH Auger ASM
5	74-1590-03	1	24 Inch LH Auger ASM
6	3230-18	6	Screw-CARR
7	63-3450	1	Bearing-Ball
8	26-6110	1	Flange-Cup, Bearing
9	26-6120	1	Flange-Cup, Bearing
10	3296-29	13	Nut-Lock, NI
11	3-0737	1	Washer
12	3257-23	1	Key-Woodruff
13	3242-4	2	Screw-Set, SQH
14	3256-23	3	Washer-Flat
15	37-6490	3	Ring-Chute, Retainer
16	32144-70	4	Screw-HWHTF
17	95-2677	1	Pulley-Impeller
18	27-0220	6	Screw-Special
19	37-8941-03	1	Ring-Chute
20	40-8160-02	2	Skid
21	32128-20	4	Nut-HF
22	32151-36	2	Ring-Retaining
23	5-1550	4	Washer
24	37-6550	2	Bearing-Auger

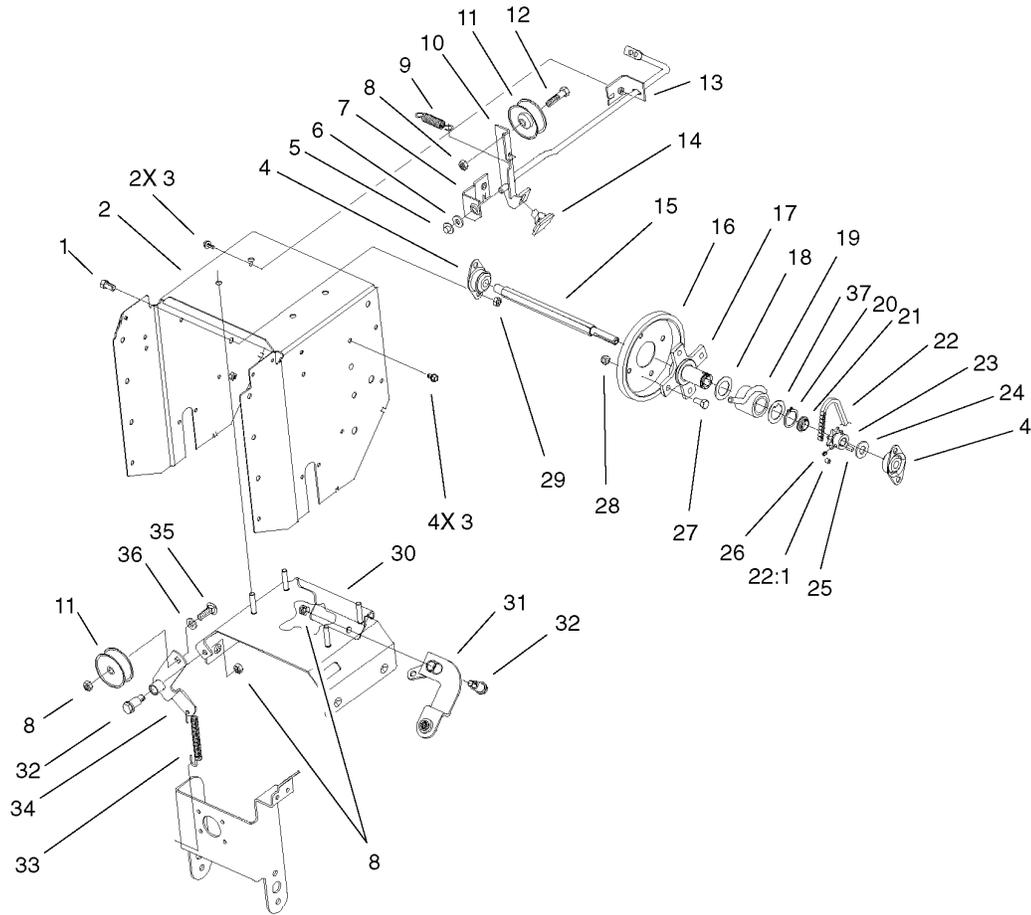
Ref	Part No.	Qty.	Description
25	100-5472-02	1	Scraper Blade
26	3296-42	2	Nut-Lock, NI
27	3230-1	9	Bolt-CARR
28	321-10	2	Screw-HH
30	105-2979	1	Chute ASM
30:3	105-2978	1	Decal-Discharge Danger
31	56-2680	1	Chute-Deflector
32	55-8950	2	Plate-Friction
33	20-4320	2	Washer-Rubber
34	3230-22	2	Screw-CARR
35	3290-456	2	Washer-Belleville
36	56-2670	1	Wire-Chute
37	3290-326	1	Nut-Push
38	3256-68	2	Washer-Flat



Gear Case Assembly No. 95-2674

Ref	Part No.	Qty.	Description
1	3257-33	1	Key-Woodruff
3	252-71	2	Washer-Thrust
4	51-0460	1	Gasket-Case, Gear
5	14-2449	1	RH Bushing Case ASM
5:1	7-0045	1	Seal-Oil
5:2	256-237	1	Bushing
6	5-7180	1	Gear-Worm, 27T
7	3-8664	1	Washer-Thrust
8	95-2675-03	1	Impeller ASM
9	237-87	1	Ring-Quad
10	37-6560	1	Bushing-Input
11	5-7170	1	Gear
12	3257-23	1	Key-Woodruff
13	32120-72	1	Ring-Snap
14	256-32	1	Bushing
15	32144-41	8	Screw-Taptite
17	14-2459	1	LH Bushing Case ASM
17:1	7-0045	1	Seal-Oil
17:2	256-237	1	Bushing
18	281-1	1	Plug-Pipe, SQH
19	252-80	1	Washer-Thrust
20	257-3	1	Washer-Thrust
21	252-76	1	Bearing-Thrust
23	37-6801	1	Shaft-Auger

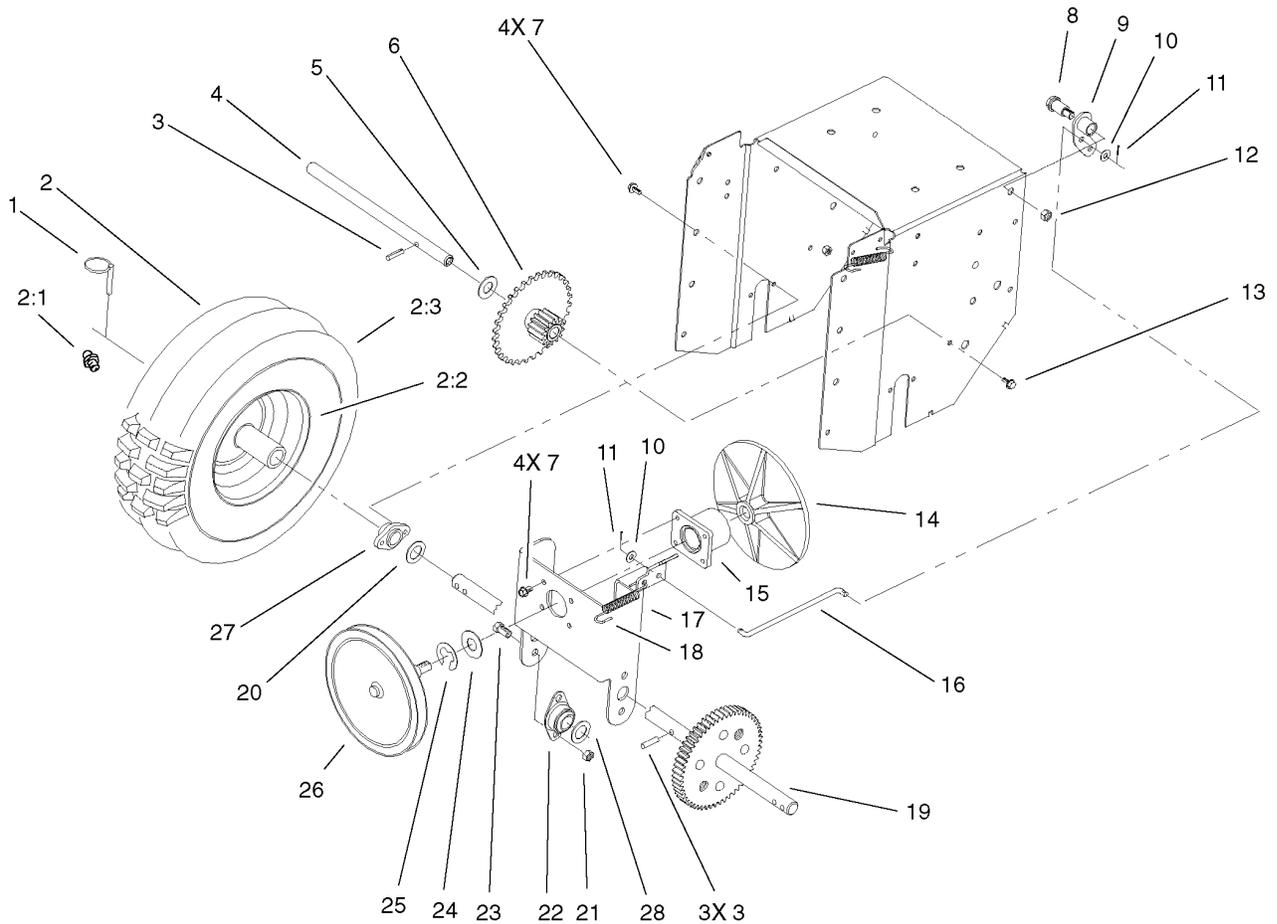
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Upper Traction Assembly

Ref	Part No.	Qty.	Description
1	323-4	4	Screw-HH
2	95-6157-02	1	Frame-Traction
3	32144-4	6	Screw-HWH
4	94-8824	2	Bearing-Triangle
5	3290-320	1	Retainer-Push On
6	3256-24	1	Washer-Flat
7	94-8829	1	Mounting-Bracket, Clutch
8	3296-59	4	Nut-Lock, NI
9	53-7570	1	Spring
10	94-9942-03	1	Clutch-Auger
11	3-4244	2	Pulley-Idler
12	323-29	1	Screw-HH
13	94-8841	1	Mounting-Rear, Clutch Rod
14	66-8060	1	Pad-Brake
15	94-8816	1	Shaft-Hex
16	40-8170	1	Wheel-Friction
17	95-7931	1	Hub-Disc, Traction
18	9547	1	Washer-Thrust
19	94-8883	1	Slider Ring ASM
20	32151-36	1	Ring-Retaining
21	94-8862	1	Spacer
22	20-1810	1	Roller-Chain
22:1	2710-6	1	Link-Connecting
23	5-9820	1	Sprocket

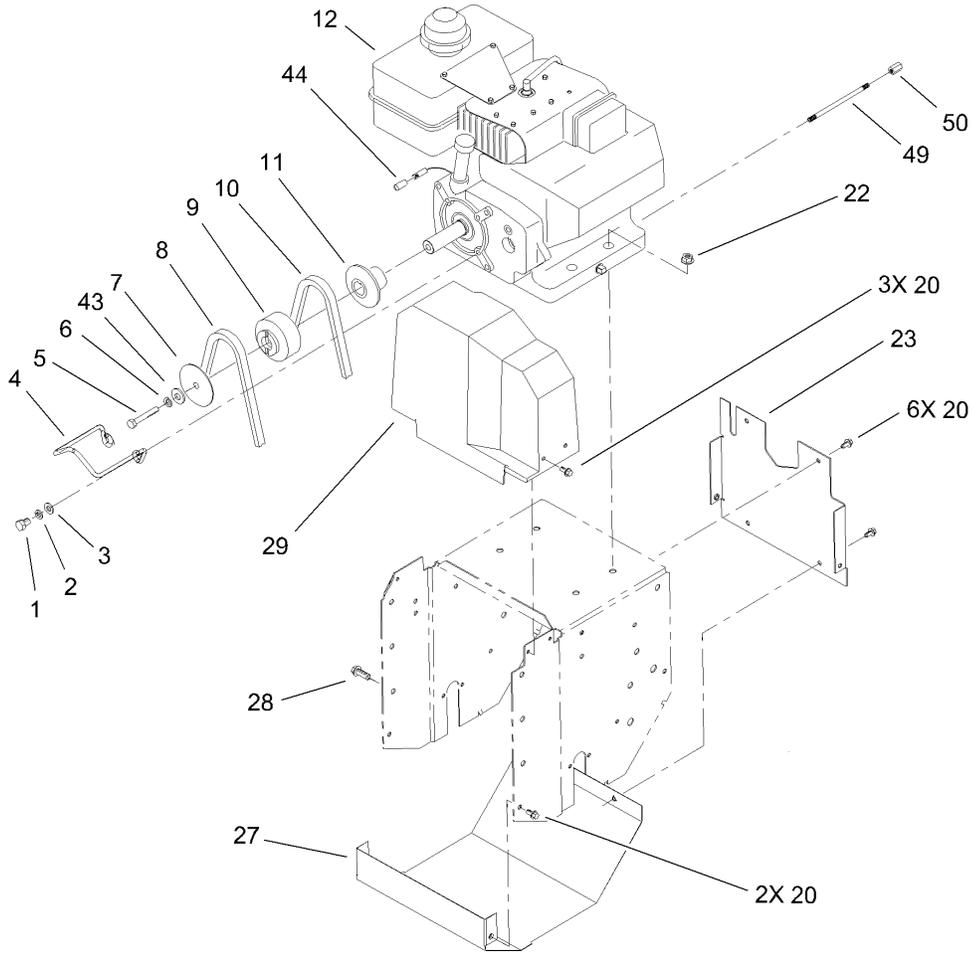
Ref	Part No.	Qty.	Description
24	611878	1	Washer-Thrust
25	94-8850	1	Key-Square
26	3245-32	2	Screw-HSH
27	322-3	4	Screw-HH
28	3296-29	4	Nut-Lock, NI
29	3296-39	4	Nut-Lock, NI
30	94-8851-03	1	Brace ASM
31	99-9315	1	Shift Arm ASM
32	94-8859	2	Bolt-Shoulder
33	94-8870	1	Spring-Idler, Extension
34	94-8864	1	Bracket-Hub, Idler
35	3231-26	1	Screw-CARR
36	9202594	1	Washer
37	98-2252	1	Washer-Thrust



Lower Traction Assembly

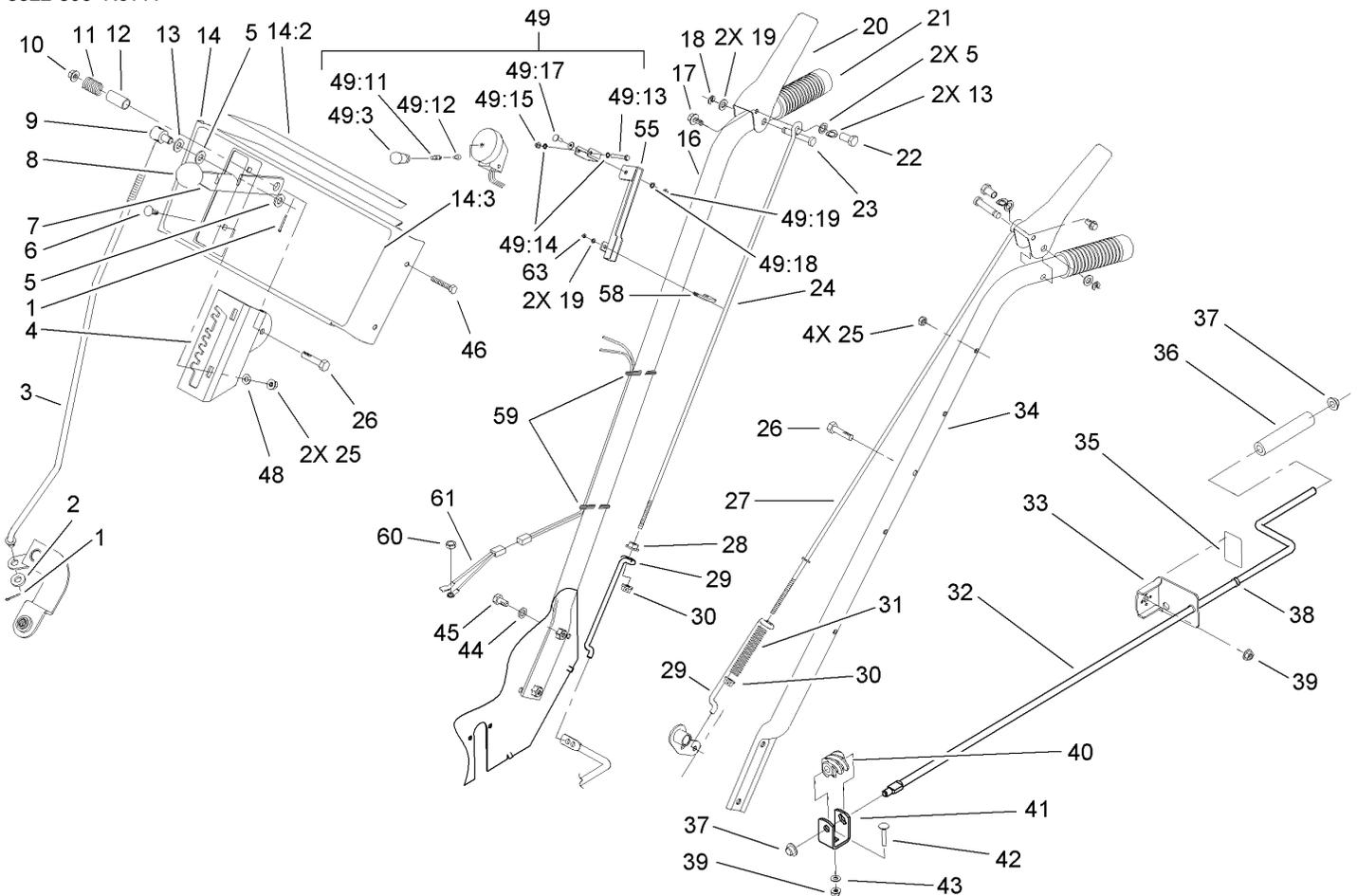
Ref	Part No.	Qty.	Description
1	3290-243	2	Pin-Lynch
2	98-2287	2	Wheel And Tire ASM
2:1	232-27	1	Stem-Valve
2:2	241-131	1	Rim-Wheel
2:3	700457	1	Tire
3	32121-9	4	Pin-Roll, Slotted
4	94-8814	1	Shaft-Intermediate
5	7-3590	1	Washer
6	94-8856	1	Gear And Bushing ASM
7	32144-4	8	Screw-HWH
8	94-8859	1	Bolt-Shoulder
9	94-8822	1	Hub-Pivot
10	3256-67	2	Washer-Flat
11	3272-4	2	Pin-Cotter
12	3296-59	1	Nut-Lock, NI
13	32144-14	2	Screw-HWH
14	94-8857	1	Disc-Friction
15	94-8845	1	Bearing Hub ASM
16	94-8818	1	Rod-Engage
17	94-8833-03	1	Frame-Plate, Friction
18	94-8813	1	Spring-Engage
19	94-8855	1	Axle
20	3-8664	2	Washer-Thrust
21	3296-39	4	Nut-Lock, NI

Ref	Part No.	Qty.	Description
22	68-2970	2	Bushing
23	323-4	4	Screw-HH
24	252-80	1	Washer-Thrust
25	32151-103	1	Ring-Snap
26	94-8823	1	Pulley And Shaft ASM
27	37-6850	2	Bearing-Axle
28	3-6498	2	Washer-Thrust



Engine and Belt Cover Assembly

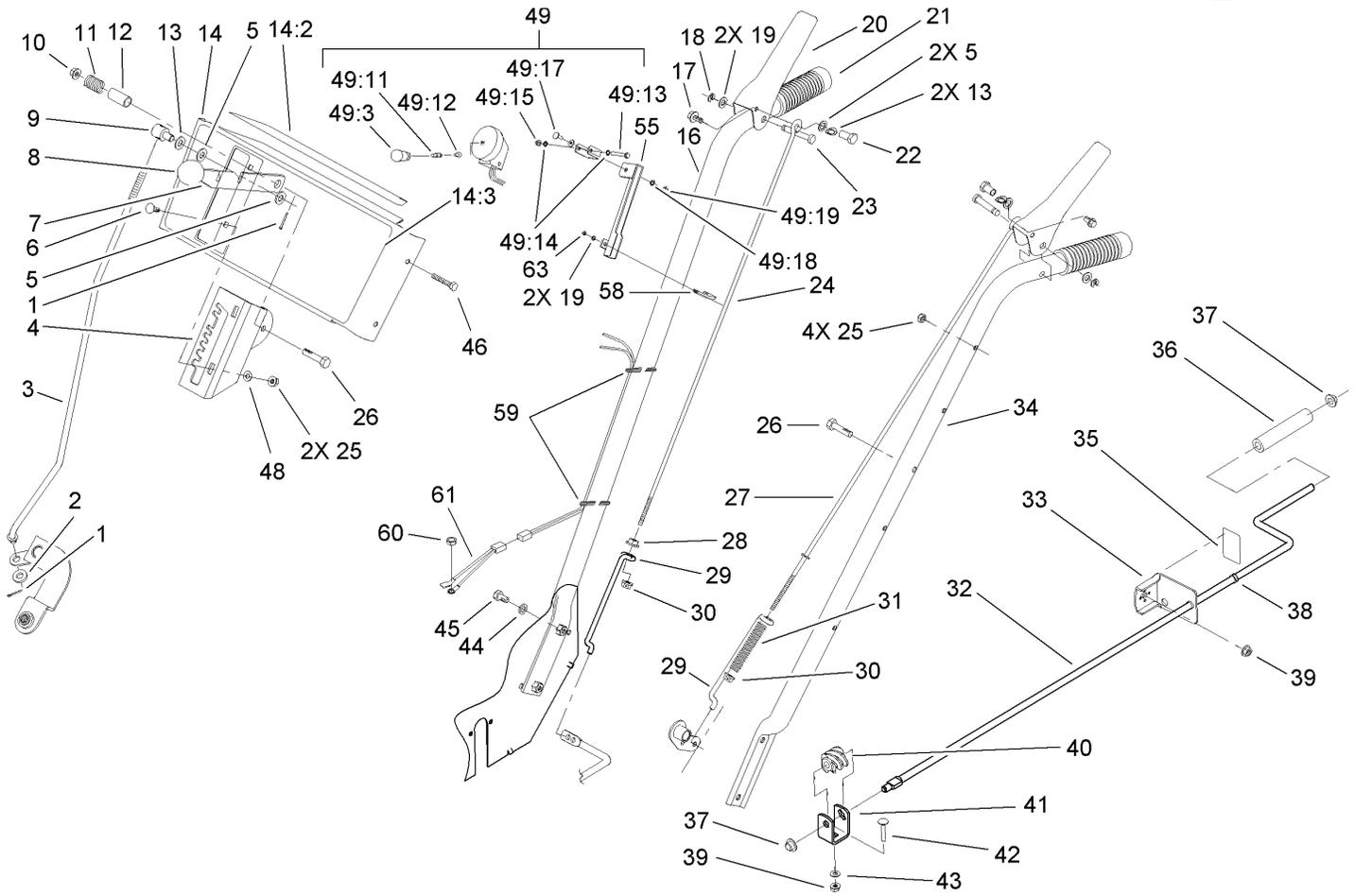
Ref	Part No.	Qty.	Description
1	3210-3	2	Screw-HH
2	3253-4	2	Washer-Lock
3	3256-23	2	Washer-Flat
4	95-7917	1	Guide-Belt
5	3212-8	1	Screw-HH
6	3253-6	1	Washer-Lock
7	62-0940	1	Sheave-Half, Impeller
8	26-9671	1	Belt-V
9	94-8849	1	Pulley-Center, Engine
10	94-8812	1	V Belt-Traction
11	62-0920	1	Sheave-Half, Traction
12		1	Engine-8Hp Tecumseh, Hmsk-80-155635V
20	32144-4	11	Screw-HWH
22	32128-20	4	Nut-HF
23	95-6156-02	1	Plate-Back
27	94-8844-02	1	Cover-Traction, Lower
28	32144-14	6	Screw-HWH
29	94-8802	1	Cover-Belt, Upper
43	3256-41	1	Washer
44	94-2782	1	Cap-Wire, Lite
49	289-34	1	Nipple-Pipe
50	288-2	1	Cap-Pipe



Handle Assembly

Ref	Part No.	Qty.	Description
1	3272-4	2	Pin-Cotter
2	3256-38	1	Washer-Flat
3	94-9875	1	Rod-Shift
4	99-1799-03	1	Mount-Selector, Speed
5	3256-24	4	Washer-Flat
6	3229-11	2	Screw-CARR
7	94-8806-03	1	Selector-Speed
8	233-21	1	Knob
9	101161	1	Trunnion
10	32128-13	1	Nut-HF
11	37-9150	1	Spring
12	40-8130	1	Spacer
13	612586	3	Washer-Spring
14	105-2980	1	Control Panel ASM
14:2	105-2977	1	Decal-Escutcheon, Back
14:3	105-2982	1	Decal-Panel, Control
16	94-8804-03	1	Handle-Right
17	3234-13	2	Screw-HHF
18	32151-73	2	Ring-Clip
19	3256-23	4	Washer-Flat
20	94-8887-03	2	Handle-Control
21	74-1360	2	Grip-Handle
22	47-4990	2	Post-Mounting, Linkage
23	52-5600	2	Pin-Lever, Control

Ref	Part No.	Qty.	Description
24	94-8838	1	Rod-Engage Auger, Upper
25	3296-42	6	Nut-Lock, NI
26	322-7	2	Screw-HH
27	94-8837	1	Rod-Traction, Upper
28	32128-33	1	Nut-HF
29	94-8836	2	Rod-Traction, Lower
30	32128-32	2	Nut-HHF
31	38-4520	1	Spring
32	40-8270	1	Rod-Control, Chute
33	25-6090	1	Bracket-Rod, Chute
34	95-2695-03	1	Handle-Left
35	63-3510	1	Decal-Direction, Chute
36	40-8230	1	Grip-Control, Chute
37	3290-320	2	Retainer-Push On
38	256-249	1	Bushing
39	3296-29	2	Nut-Lock, NI
40	40-8250	1	Gear-Worm, Chute
41	40-8280	1	Bracket-Worm
42	3230-22	1	Screw-CARR
43	3290-238	1	Washer-Lock
44	3290-456	4	Washer-Belleville
45	32144-14	4	Screw-HWH
46	321-9	4	Screw-HH
48	3256-22	2	Washer-Flat

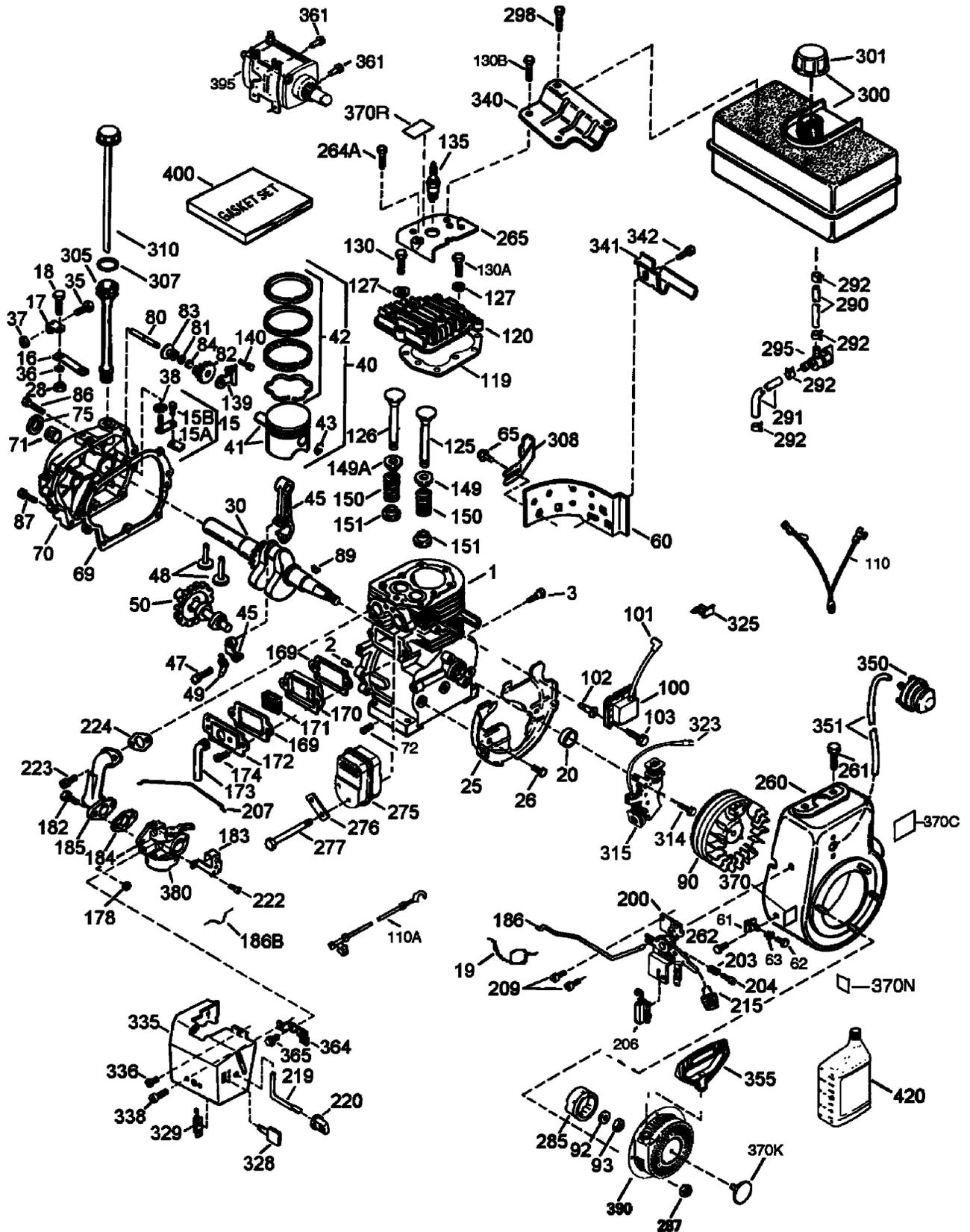


Handle Assembly (continued)

Ref	Part No.	Qty.	Description
49	54-9871	1	Headlamp ASM
49:3	218-16	1	Beam-Sealed
49:11	218-553	1	Switch ASM
49:12	92-6033	1	Boot-Switch
49:13	322-11	1	Screw-HH
49:14	3255-8	2	Washer-Lock
49:15	32128-29	1	Locknut-Flange
49:17	3231-22	1	Screw-CARR
49:18	3253-21	1	Washer-Lock
49:19	3217-7	1	Nut-Hex
55	68-7110-03	1	Light Mount ASM
58	68-7140	1	U-Bolt
59	3290-378	2	Tie-Cable
60	3217-6	1	Nut-Hex
61	54-9810	1	Wire ASM
63	3296-29	2	Nut-Lock, NI
●99	99-9300	1	Cord-Extension

Engine Assembly No. 1

Tecumseh HMSK80-155635V



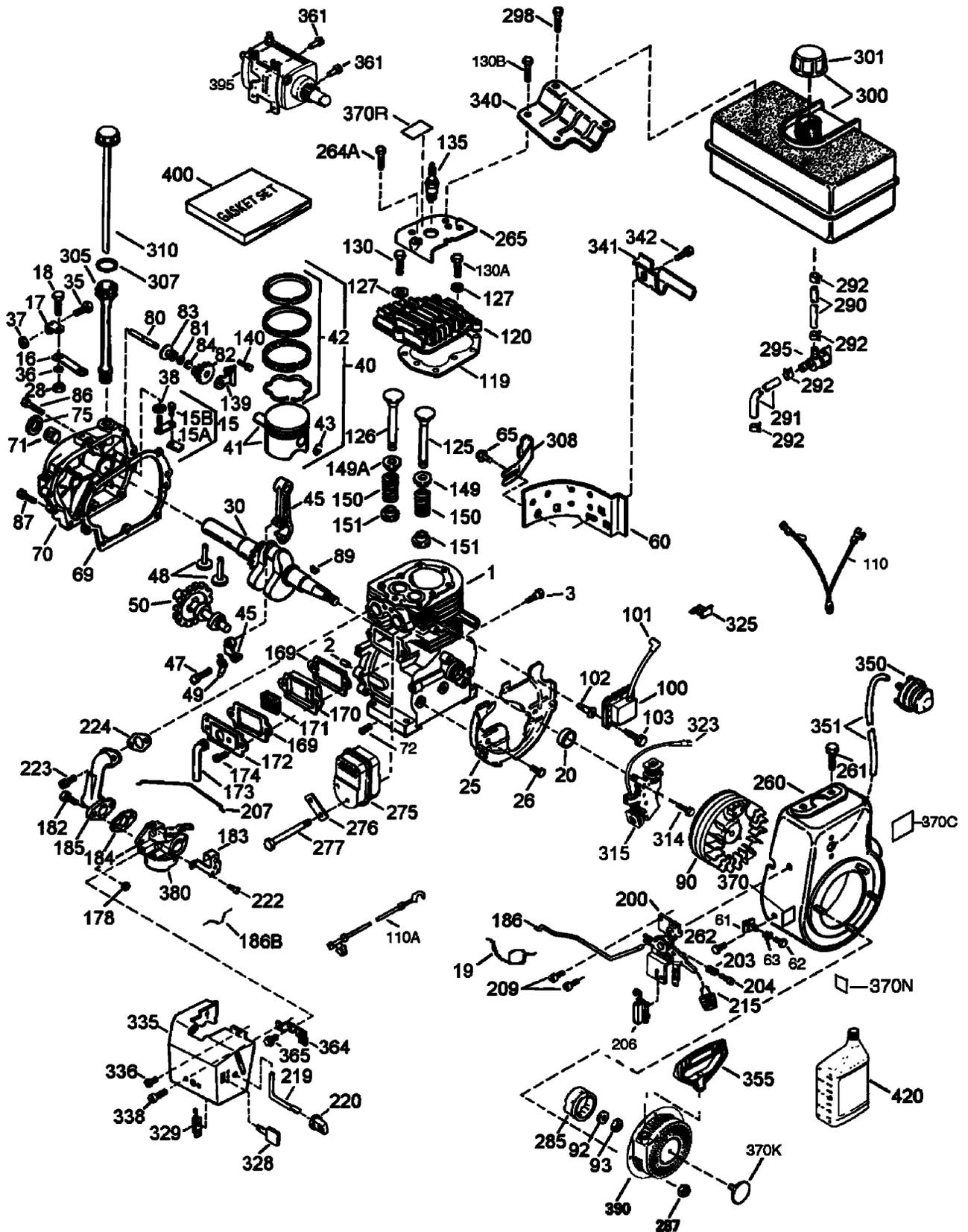
Engine Assembly No. 1

Tecumseh HMSK80-155635V

Ref	Part No.	Qty.	Description	Ref	Part No.	Qty.	Description
41	35385	1	Cylinder ASM (Includes 2, 20, 72)	490	611093	1	Flywheel ASM
42	27652	2	Pin-Dowel	492	650880	1	Washer-Belleville
43	650820	2	Screw (1/4-20X1/2)	493	650881	1	Nut-Flywheel
415	30699C	1	Rod-Governor (Includes 15A, 15B)	4100	35135	1	Solid State ASM
415A	30700	1	Yoke-Governor	4101	610118	1	Cover-Spark Plug
415B	650494	1	Screw (6-40X5/16)	4102	651024	2	Stud-Mounting, Solid State
416	33454	1	Lever-Governor	4103	651007	2	Screw (T-15, 10-24 X 15/16)
417	29916	1	Clamp-Lever, Governor	4110	35253	1	Ground Wire
418	651028	1	Screw (T-15, 8-32X7/16)	4110A	35305	1	Ground Wire
419	34663	1	Spring-Throttle	4119	36448	1	Gasket-Head, Cylinder
420	35319	1	Seal-Oil	4120	36449	1	Head-Cylinder
425	36460	1	Baffle-Housing, Blower	4125	27878A	1	Valve-Exhaust (STD) (Includes 151)
426	650561	2	Screw (1/4-20X19/32)	4125	27880A	1	Valve-Exhaust (1/32 O S) (Includes 151)
428	30322	1	Nut-Lock (8-32)	4126	34035	1	Valve-Intake (STD) (Includes 151)
430	35571A	1	Crankshaft	4126	34036	1	Valve-Intake (.03 O S) (Includes 151)
435	29826	1	Screw (10-32X3/4)	4127	650691	2	Washer
436	29918	1	Washer-Lock (8)	4130	6021A	7	Screw (5/16-18X1-1/2)
437	29216	1	Nut-Lock (10-32)	4130A	650727	2	Screw (5/16-18X1-25/32)
438	29642	1	Ring-Retaining	4130B	650713	2	Screw
440	40011	1	Piston-Pin And Ring Set (STD)	4135	35395	1	Spark Plug-Resistor (R J19 L M)
440	40012	1	Piston- Pin And Ring Set (.010 O S)	4139	33369	1	Bracket-Gear, Governor
441	40009	1	Piston And Pin ASM (STD) (Includes 43)	4140	650836	2	Screw (10-24X1/2)
441	40010	1	Piston And Pin ASM (.010 O S)	4149	27882	1	Cap-Spring, Valve
442	40013	1	Ring Set (STD)	4149A	35862	1	Cap-Spring, Valve
442	40014	1	Ring Set (.010 O S)	4150	27881	2	Spring-Valve
443	27888	2	Ring-Retaining, Piston Pin	4151	32581	2	Keeper-Spring, Valve
445	36897	1	Connecting Rod ASM				
447	651033	2	Bolt-Rod, Connecting				
448	34034	2	Lifter-Valve				
449	36896	1	Dipper-Oil				
450	35375	1	Camshaft (Mcr)				
460	33273A	1	Extension-Housing, Blower				
461	34126	1	Bracket				
462	650760	1	Screw (8-32 X 3/8)				
463	28545	1	Grommet				
465	650128	1	Screw (10-24X1/2)				
4569	35262A	1	Gasket-Cover, Cylinder				
470	35376	1	Cover-Cylinder (Includes 71, 75, 80)				
471	35377	1	Bushing-Crankshaft				
472	27642	1	Plug-Drain, Oil (SQH 1/4-18)				
475	35319	1	Seal-Oil				
480	31845	1	Shaft-Governor				
481	30590A	1	Washer				
482	35378	1	Governor Gear ASM (Includes 81)				
483	30588A	1	Spool-Governor				
484	29193	1	Ring-Retaining				
486	650833	7	Screw (1/4-20X1-3/16)				
487	650832	1	Screw (1/4-20X1-11/16)				
489	32589	1	Key-Flywheel				

Engine Assembly No. 2

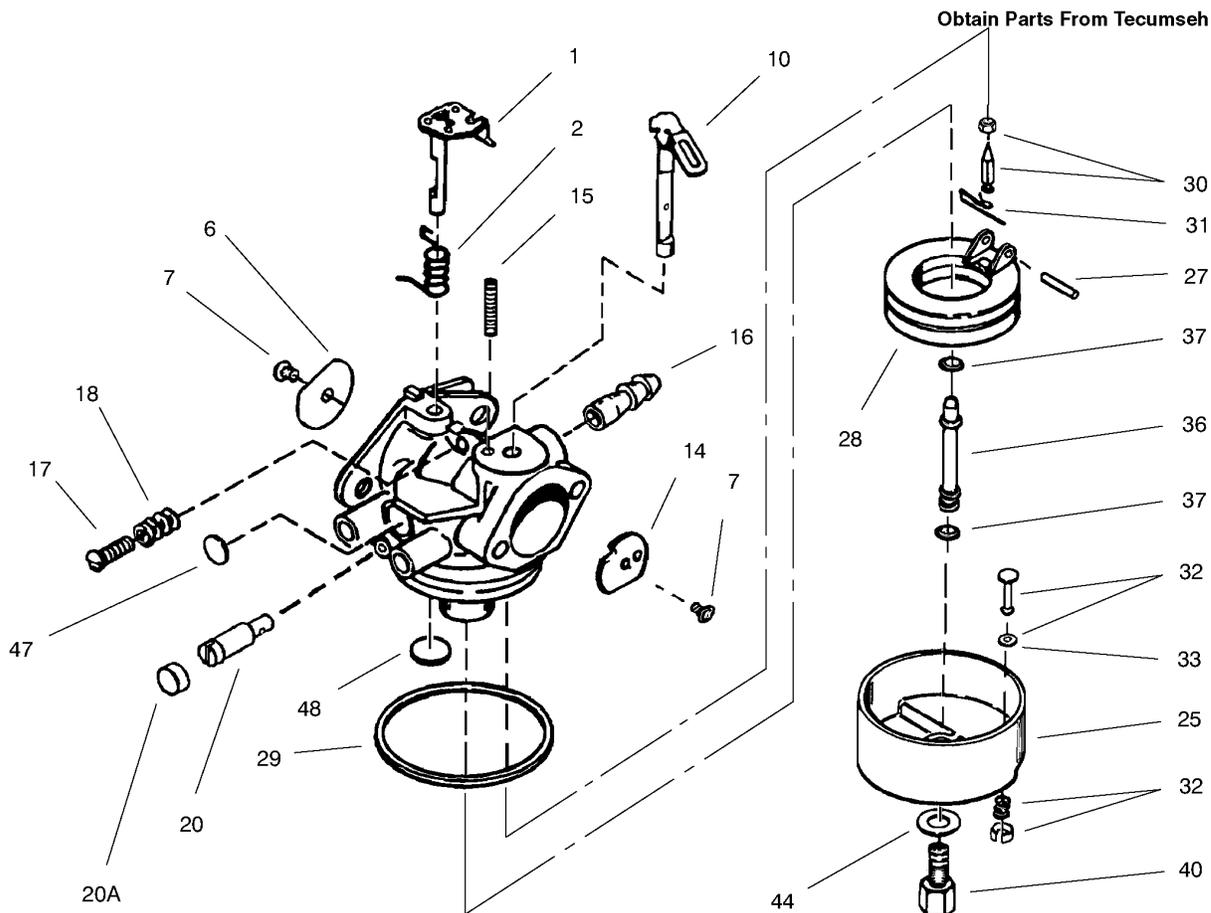
Tecumseh HMSK80-155635V



Engine Assembly No. 2 Tecumseh HMSK80-155635V

Ref	Part No.	Qty.	Description
4 5169	27896A	2	Gasket-Cover, Valve
4 170	28423	1	Body-Breather
4 171	28424	1	Element-Breather
4 172	28425	1	Cover-Valve
4 173	35350	1	Tube-Breather
4 174	650128	2	Screw (10-24X1/2)
4 178	29752	2	Nut And Lock Washer (1/4-28)
4 182	30088A	2	Screw (1/4-28X1)
4 183	34587A	1	Bracket-Choke
4 5184	33263	1	Gasket-Carburetor To Intake Pipe
4 185	33877	1	Pipe-Intake
4 186	34667	1	Link-Governor
4 186B	36652	1	Spring-Choke
4 200	34677	1	Bracket-Control (Includes 19, 203, 204, 206)
4 203	31342	1	Spring-Compression
4 204	651029	1	Screw (T-10, 5-40X7/16)
4 206	610973	1	Terminal
4 207	33878	1	Link-Throttle
4 209	650821	2	Screw (10-32 X 1/2)
4 215	35440	1	Knob-Control
4 219	34586	1	Rod-Choke
4 220	35438	1	Knob-Control
4 222	28820	2	Screw (10-32 X 1/2)
4 223	650378	2	Screw (T-30, 5/16-18X1-3/32)
4 5224	27915A	1	Gasket-Pipe, Intake
4 260	35447A	1	Housing-Blower
4 261	650788	2	Screw (5/16-18X3/4)
4 262	29747B	2	Screw
4 264A	650802	1	Screw (1/2-20X5/8)
4 265	33272B	1	Cover-Cylinder Head
4 275	35056	1	Muffler
4 276	31588	1	Plate-Locking
4 277	651002	2	Screw (5/16-18X4-3/16)
4 285	35985B	1	Cup-Starter
4 287	29752	4	Nut And Lock Washer (1/4-28)
4 290	29774	1	Line-Fuel (8.62)
4 291	30705	1	Line-Fuel
4 292	26460	4	Clamp-Line, Fuel
4 295	35857	1	Valve-Shut Off, Fuel
4 298	650665	2	Screw (1/4-15X7/8)
4 300	34156A	1	Tank-Fuel (Includes 292, 301)
4 301	36246	1	Cap-Fuel
4 305	35554	1	Tube-Fill, Oil
4 307	35499	1	O-Ring
4 308	35540	1	Clip-Tube, Fill
4 310	36205	1	Gauge Oil ASM
4 314	650873	1	Screw (1/4-20 X 3/4)
4 315	611111	1	Coil-Alternator, 18 Watt (Includes 323)
4 323	611118	1	Terminal
4 325	29443	1	Clip-Wire

Ref	Part No.	Qty.	Description
4 328	35062	2	Key, Ignition
4 329	610973	1	Terminal
4 335	35057A	1	Cover-Carburetor
4 336	650765	1	Screw (10-32X1/2)
4 338	28942	2	Screw (10-32 X 3/8)
4 340	34154	1	Bracket-Tank, Fuel (Black)
4 341	34155	1	Bracket-Tank, Fuel
4 342	650561	1	Screw (1/4-20X19/32)
4 350	570682	1	Primer-ASM
4 351	32180C	1	Line-Primer
4 355	590574	1	Handle-Starter, Mitten Grip
4 361	650990	2	Screw (T-30, 1/4-20X15/32)
4 364	33377	1	Bracket-Carburetor
4 365	650767	2	Screw (8-32X27/64)
4 370	36261	1	Decal-Lubrication
4 370C	36501	1	Decal-Primer-International Symbol
4 370K	36695	1	Decal-Tecumseh Logo For Top Of Recoil Starter
4 370N	35077	1	Decal-Speed Control And Choke
4 370R	37119	1	Decal-Warning (Bilingual)
4 380	640052	1	Carburetor ASM (Includes 184)
4 390	590733	1	Starter-Rewind
4 395	33329D	1	Starter-Electric (110 Volt)
4 400	36450A	1	Gasket Set
4 420	730226	1	Oil-Engine (Sae 5W30)



Carburetor No. 640052 Tecumseh HMSK80-155635V

Ref	Part No.	Qty.	Description
①	631776A	1	Throttle Shaft And Lever ASM
②	631970	1	Spring-Return, Throttle
③	631778	1	Shutter-Throttle
④	650506	2	Screw-Shutter
⑤	632112	1	Choke Shaft And Lever ASM
⑥	632174	1	Shutter-Choke
⑦	630735	1	Spring-Positioning, Choke
⑧	632164	1	Fitting-Fuel
⑨	650417	1	Throttle Crack Screw / Idle Speed Screw
⑩	630766	1	Spring-Tension
⑪	640016	1	Screw-Restrictor, Idle
⑫	640053	1	Cap-Screw, Idle Restrictor
⑬	631951	1	Float Bowl Assembly (Incl. Ref. #32 & 33)
⑭	631024	1	Shaft-Float
⑮	632019	1	Float
⑯	631028	1	O-Ring-Bowl, Float
⑰	631021	1	Inlet Needle, Seat And Clip ASM (Incl. Ref. #31)
⑱	631022	1	Clip-Spring
⑲	27136A	1	Drain Assembly (Incl. Ref. #33)
⑳	27554	1	Gasket-Plunger, Drain
㉑	640005	1	Tube-Nozzle, Main
㉒	632547	2	O-Ring-Nozzle Tube, Main

Ref	Part No.	Qty.	Description
㉓	640055	1	Nut-High Speed, Bowl
㉔	27110	1	Washer-Bowl Nut
㉕	630748	1	Plug-Welch, Idle Mixture Well
㉖	631027	1	Plug-Welch, Atmospheric Vent

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