



622R Power Throw[®] Snowthrower

Model No. 38606 - 270000001 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.

Contents

Description	Page	Description	Page
Auger Housing Assembly	 3	Engine Assembly No. 2 Tecumseh OH195SA-72566G	 12
22 Inch Gear Case Assembly No. 37-6962	 4	Carburetor Assembly No. 640058A Tecumseh OH195SA-72566G	 14
Frame Assembly	 5	Rewind Starter No. 590749 Tecumseh OH195SA-72566G	 15
Drive Assembly	 6	Recoil Starter No. 590733 (Optional) Tecumseh OH195SA-72566G	 16
Engine Assembly	 7	Attachments and Accessories List	 17
Handle and Control Assembly	 8		
Control Assembly	 9		
Engine Assembly No. 1 Tecumseh OH195SA-72566G	 10		

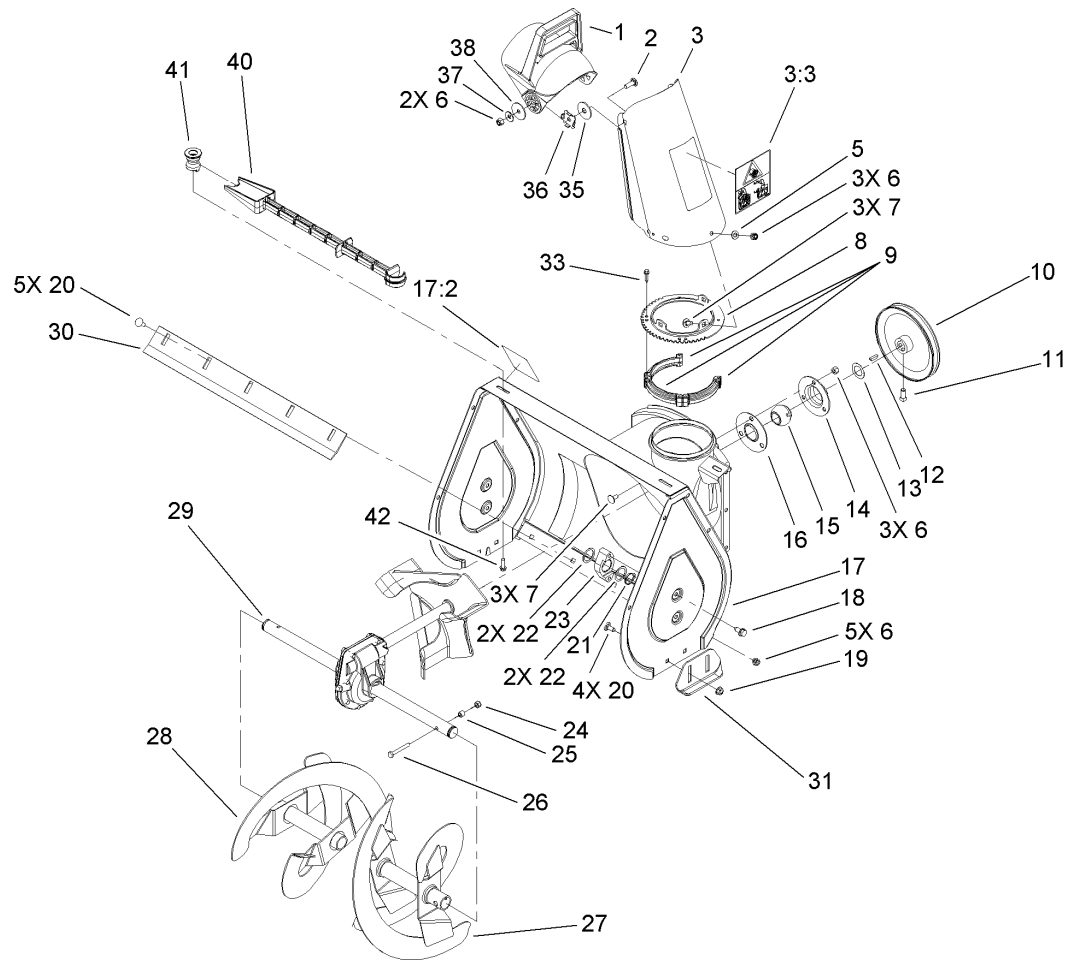
Part Description Abbreviations

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

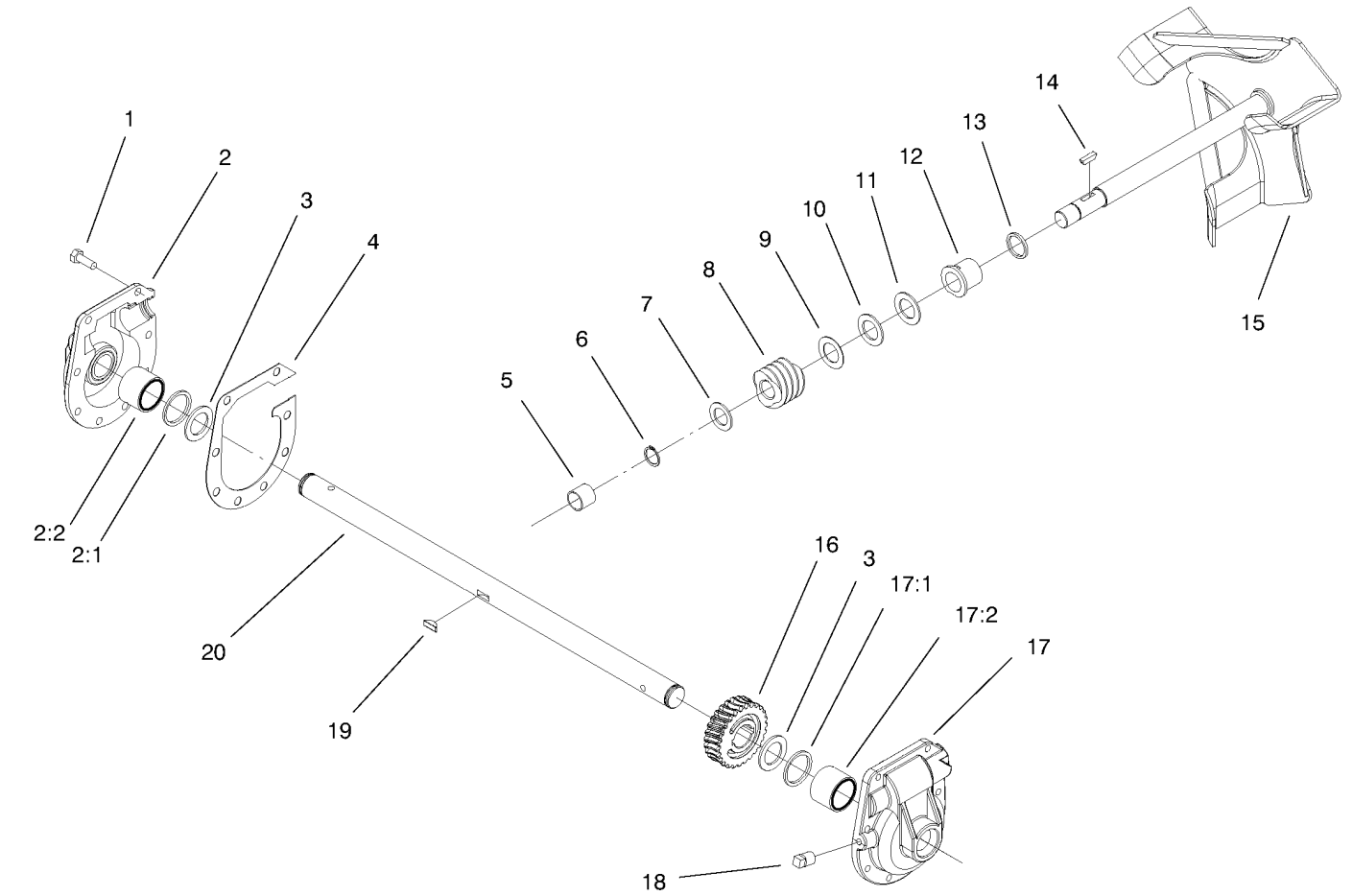
Footnotes

- | | |
|--|---------------------------------|
| ❶ Not illustrated | ❷ Not serviced separately |
| ❸ Obtain from your local Tecumseh dealer | ❹ Included in Repair Kit 632760 |
| ❺ Included in Gasket Set 36720 | |



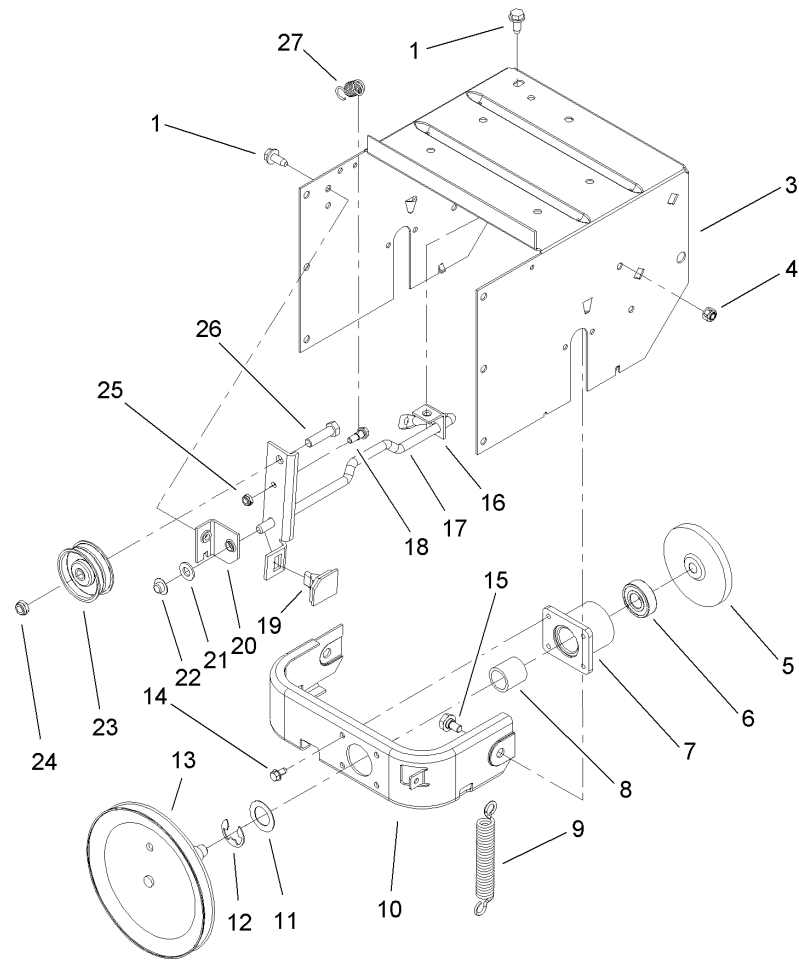
Auger Housing Assembly

Ref	Part No.	Qty.	Description	Ref	Part No.	Qty.	Description
1	56-2680	1	Chute-Deflector	24	3296-42	2	Nut-Lock, NI
2	3230-22	2	Screw-CARR	25	66-8010	2	Spacer-Hub, Impeller
3	112-6605	1	Chute ASM	26	321-11	2	Screw-HH
3:3	112-6620	1	Decal-Danger, Discharge	27	98-2271-03	1	Auger-LH
5	3256-23	3	Washer-Flat	28	98-2270-03	1	Auger-RH
6	3296-29	13	Nut-Lock, NI	29	37-6962	1	22 Inch Gear Case ASM
7	3230-18	6	Screw-CARR	30	100-3554-01	1	Blade-Scraper
8	37-8941-03	1	Ring-Chute	31	40-8160-01	2	Skid
9	37-6490	3	Ring-Chute, Retainer	33	27-0220	6	Screw-Special
10	37-6890	1	Pulley	35	20-4320	2	Washer-Rubber
11	3242-4	2	Screw-Set, SQH	36	55-8950	2	Plate-Friction
12	3257-23	1	Key-Woodruff	37	3290-456	2	Washer-Belleville
13	3-0737	1	Washer	38	3256-68	2	Washer-Flat
14	26-6110	1	Flange-Cup, Bearing	40	110-3408	1	Stick-Cleanout
15	63-3450	1	Bearing-Ball	41	110-6275	2	Holder-Stick
16	26-6120	1	Flange-Cup, Bearing	42	46-8091	2	Screw-HWH
17	112-6641	1	Auger Housing ASM				
17:2	107-3040	1	Decal-Danger, Auger				
18	32144-70	4	Screw-HWHTF				
19	32128-20	4	Nut-HF				
20	3230-1	9	Bolt-CARR				
21	32151-36	2	Ring-Retaining				
22	5-1550	4	Washer				
23	37-6550	2	Bearing-Auger				



22 Inch Gear Case Assembly No. 37-6962

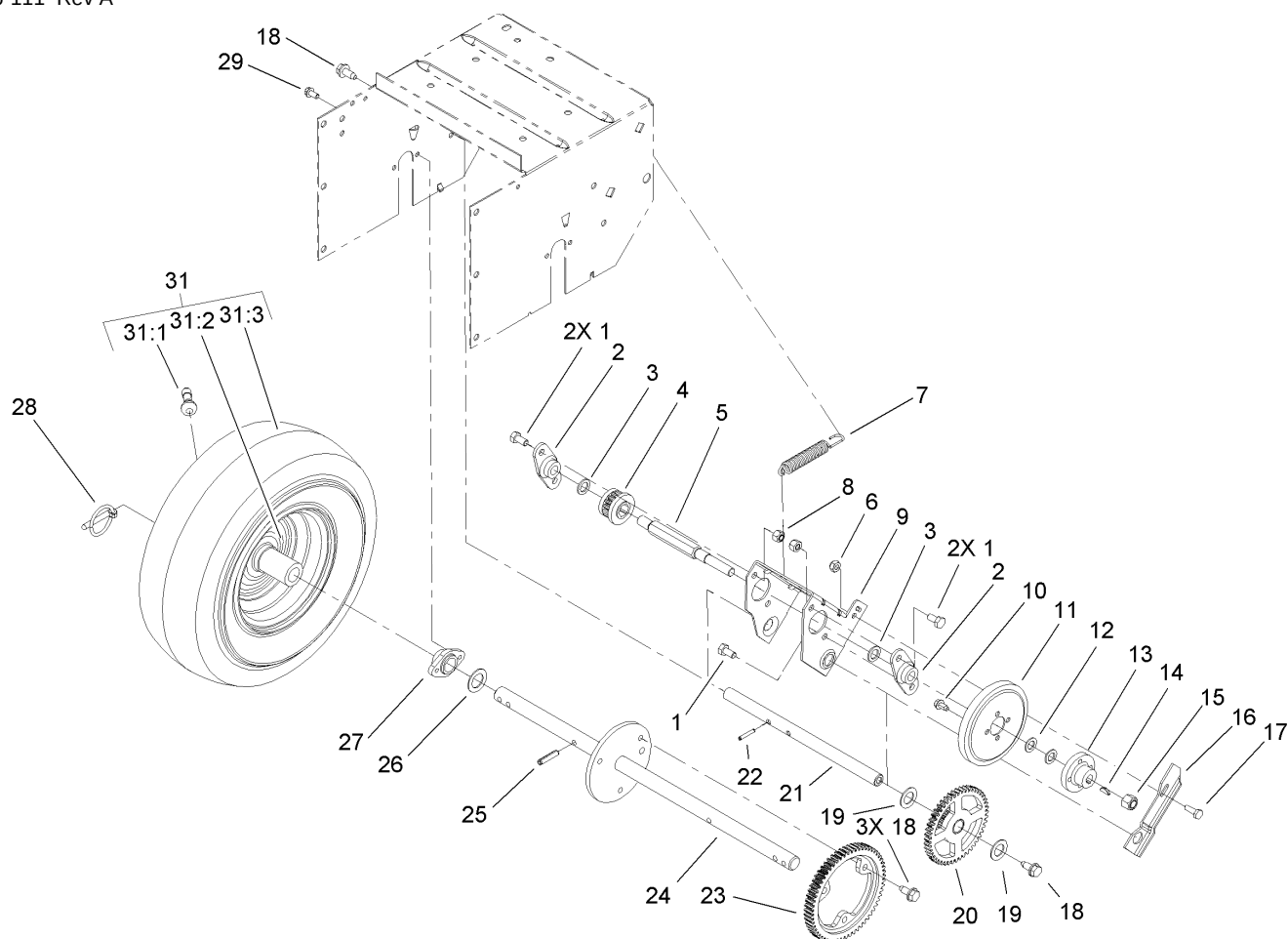
Ref	Part No.	Qty.	Description				
1	32144-41	8	Screw-Tap				
2	14-2449	1	RH Bushing Case ASM				
2:1	7-0045	1	Seal-Oil				
2:2	256-237	1	Bushing				
3	252-71	2	Washer-Thrust				
4	51-0460	1	Gasket-Case, Gear				
5	256-32	1	Bushing				
6	32120-72	1	Ring-Snap				
7	3-8664	1	Washer-Thrust				
8	5-7170	1	Gear				
9	252-80	1	Washer-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	Impeller Shaft ASM				
16	5-7180	1	Gear-Worm, 27T				
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	3257-33	1	Key-Woodruff				
20	37-6802	1	Shaft-Auger				



Frame Assembly

Ref	Part No.	Qty.	Description
1	32144-70	2	Screw-HWHTF
3	37-8900-01	1	Frame-Traction
4	3296-29	2	Nut-Lock, NI
5	38-0800	1	Plate-Friction
6	100-1048	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	Washer-Thrust
12	32151-103	1	Ring-Snap
13	88-0850	1	Pulley And Drive ASM
14	32144-4	4	Screw-HWH
15	37-8770	2	Bolt-Shoulder
16	37-9070	1	Bracket-Mount, Rear
17	40-6511-03	1	Auger Clutch Rod ASM
18	42-3560	1	Bolt-Shoulder
19	66-8060	1	Pad-Brake
20	66-6790	1	Bracket-Mount, 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

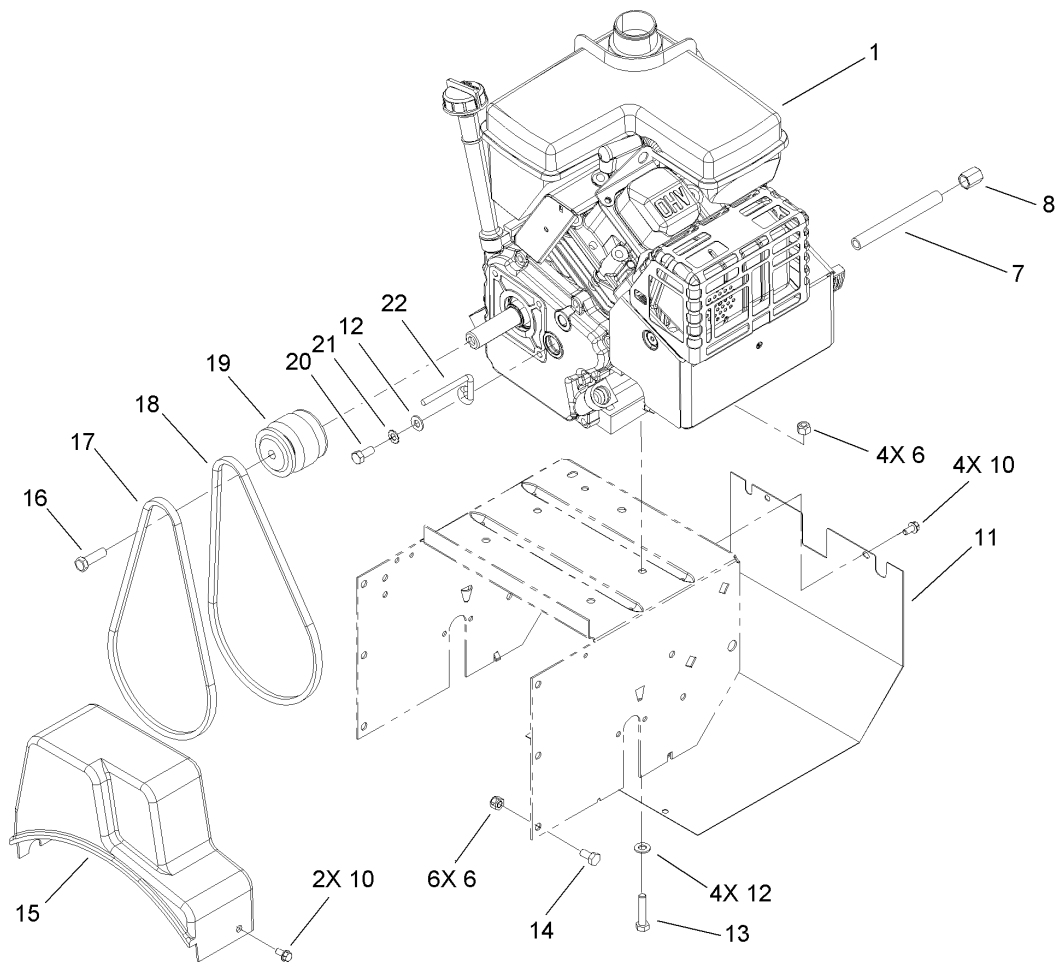
Ref	Part No.	Qty.	Description
26	323-29	1	Screw-HH
27	53-7570	1	Spring



Drive Assembly

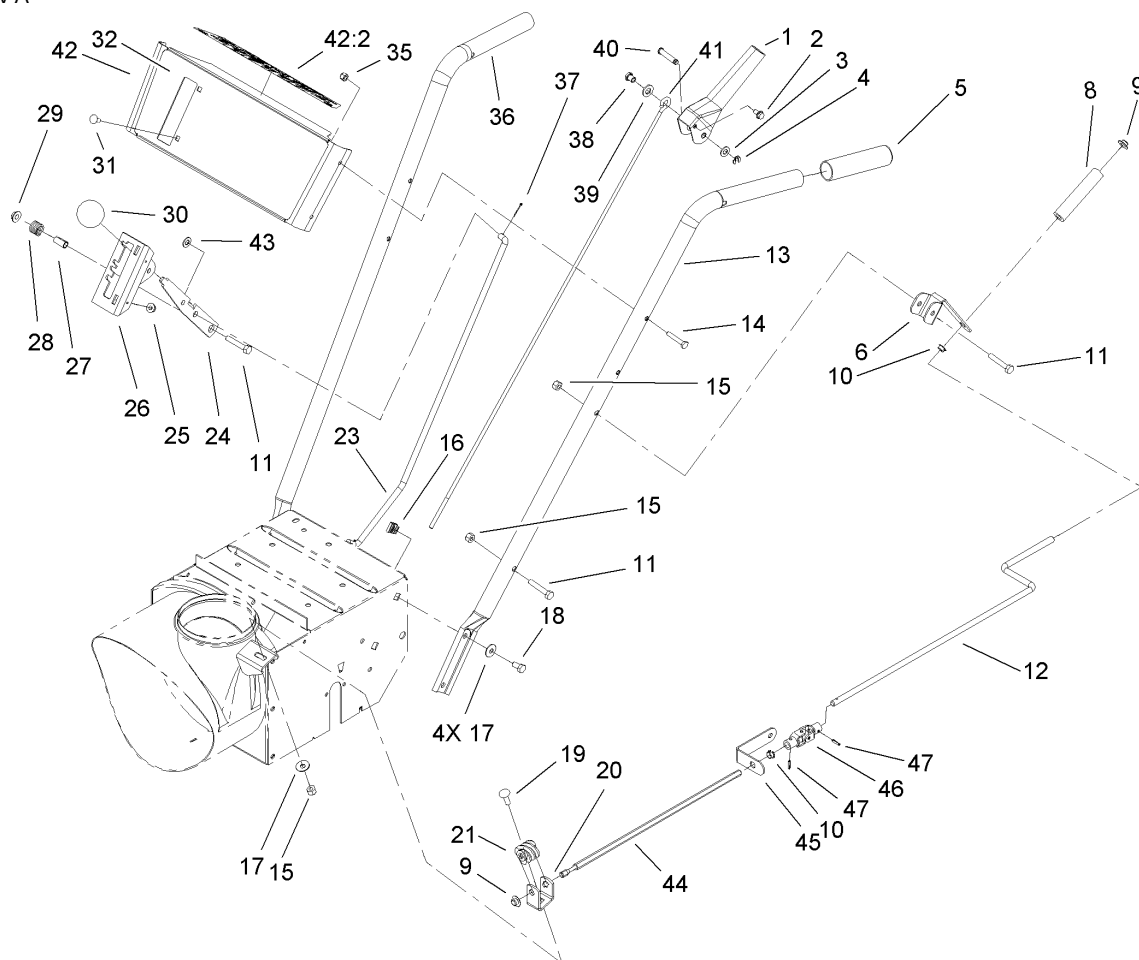
Ref	Part No.	Qty.	Description
1	322-2	4	Screw-HH
2	20-1620	2	Bearing-Wheel, Friction
3	5-7570	2	Washer-Flat
4	37-6500	1	Pinion
5	37-6780	1	Shaft-Wheel, Friction
6	3296-16	1	Nut-Lock, NI
7	37-8880	1	Spring-Traction
8	3296-29	4	Nut-Lock, NI
9	39-1230	1	Bracket-Sliding
10	32144-4	4	Screw-HWH
11	37-6570	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-HWHTF
19	10-9280	2	Washer-Special
20	37-9160	1	Internal Gear And 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

Ref	Part No.	Qty.	Description
25	32121-9	2	Pin-Roll, Slotted
26	3-8664	2	Washer-Thrust
27	37-6850	2	Bearing-Axle
28	3290-243	2	Pin-Lynch
29	32144-4	4	Screw-HWH
① ② 30			1 LH Wheel And Tire ASM
① 30:1	232-27	1	Stem-Valve
① 30:2	241-131	1	Rim-Wheel
① 30:3	112-6609	1	Tire
② 31			1 RH Wheel And Tire ASM
31:1	232-27	1	Stem-Valve
31:2	241-131	1	Rim-Wheel
31:3	112-6609	1	Tire



Engine Assembly

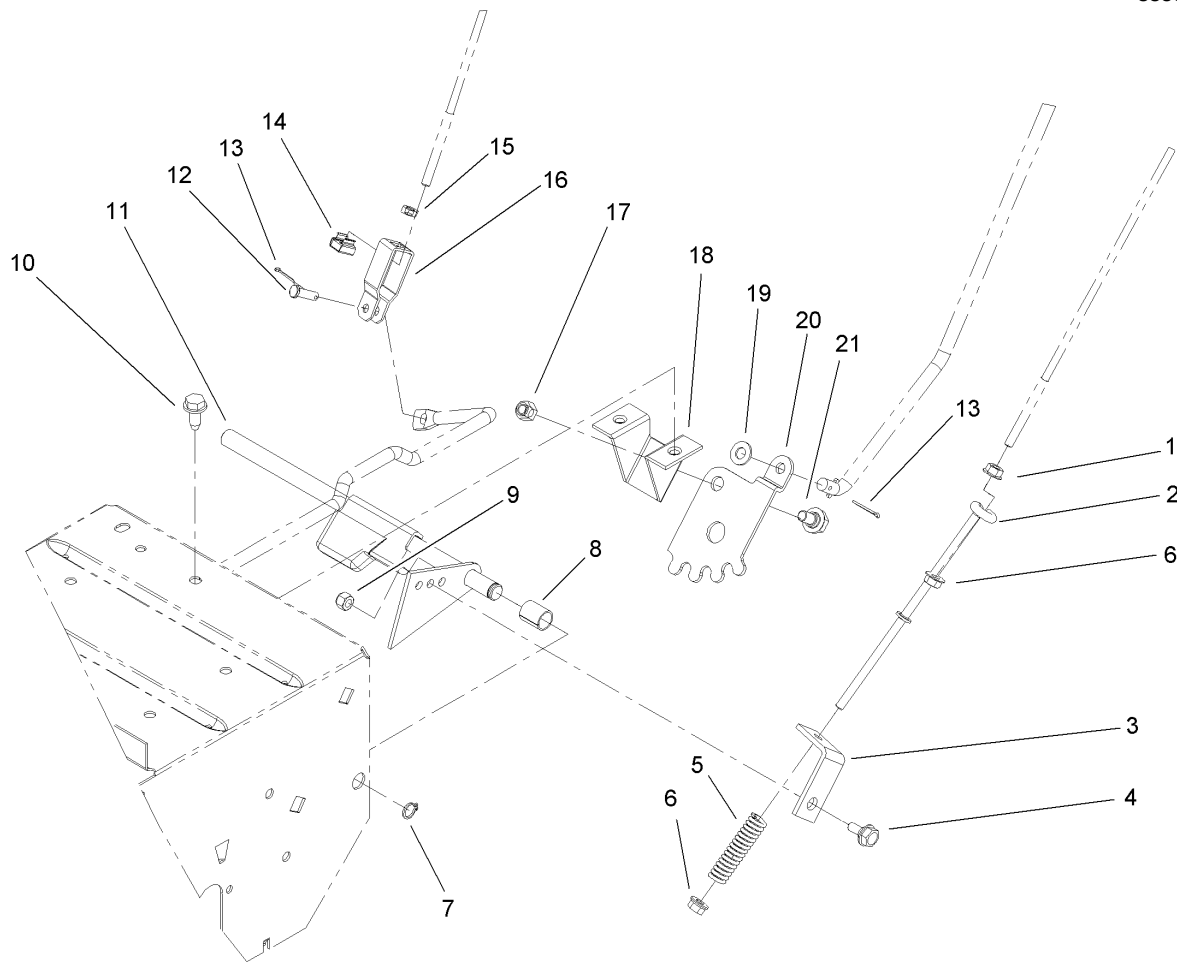
Ref	Part No.	Qty.	Description				
2 3 1		1	Engine-Tecumseh, Oh195Sa-72566G				
6	3296-29	10	Nut-Lock, NI				
7	289-34	1	Nipple-Pipe				
8	288-2	1	Cap-Pipe				
10	32144-4	6	Screw-HWH				
11	37-6830-01	1	Cover-Traction, Lower				
12	3256-23	5	Washer-Flat				
13	322-7	4	Screw-HH				
14	322-2	6	Screw-HH				
15	37-6900	1	Cover-Belt				
16	43-7290	1	Screw-Special				
17	26-9672	1	V-Belt				
18	37-9090	1	V Belt-3L, Traction				
19	74-1370	1	Pulley-Engine				
20	3210-3	1	Screw-HH				
21	3255-8	1	Washer-Lock				
22	37-8990	1	Retainer-Belt				



Handle and Control Assembly

Ref	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	112-6615	2	Grip-Handle
6	110-6297	1	Bracket-Rod, Upper Chute
8	40-8230	1	Grip-Control, Chute
9	3290-320	2	Retainer-Push On
10	256-249	2	Bushing
11	322-9	3	Screw-HH
12	110-6293	1	Rod-Chute, Upper
13	110-6296-03	1	Handle-Left
14	321-9	4	Screw-HH
15	3296-29	3	Nut-Lock, NI
16	3290-196	4	Nut
17	3290-456	5	Washer-Belleville
18	322-2	4	Screw-HH
19	3230-22	1	Screw-CARR
20	110-6298	1	Bracket-Worm
21	40-8250	1	Gear-Worm, Chute
23	39-7570	1	Rod-Selector, Speed
24	37-8820-03	1	Selector-Speed
25	32128-33	2	Nut-HF
26	39-1280-03	1	Mount-Selector, Speed

Ref	Part No.	Qty.	Description
27	40-8130	1	Spacer
28	37-9150	1	Spring
29	32128-13	1	Nut-HF
30	233-21	1	Knob
31	3229-11	2	Screw-CARR
32	112-6638	1	Decal-Escutcheon
35	3296-42	4	Nut-Lock, NI
36	52-5561-03	1	Handle-Right
37	3272-4	1	Pin-Cotter
38	47-4990	2	Post-Mounting, Linkage
39	3256-24	2	Washer-Flat
40	52-5600	2	Pin-Lever, Control
41	52-5590	2	Link-Upper
42	112-6643	1	Escutcheon Panel ASM
42:2	112-6624	1	Decal-Escutcheon, Back
43	3256-23	1	Washer-Flat
44	110-6292	1	Rod-Chute, Lower
45	110-6295	1	Bracket-Rod, Lower
46	94-2686	1	Joint-Universal
47	32121-73	2	Pin-Roll

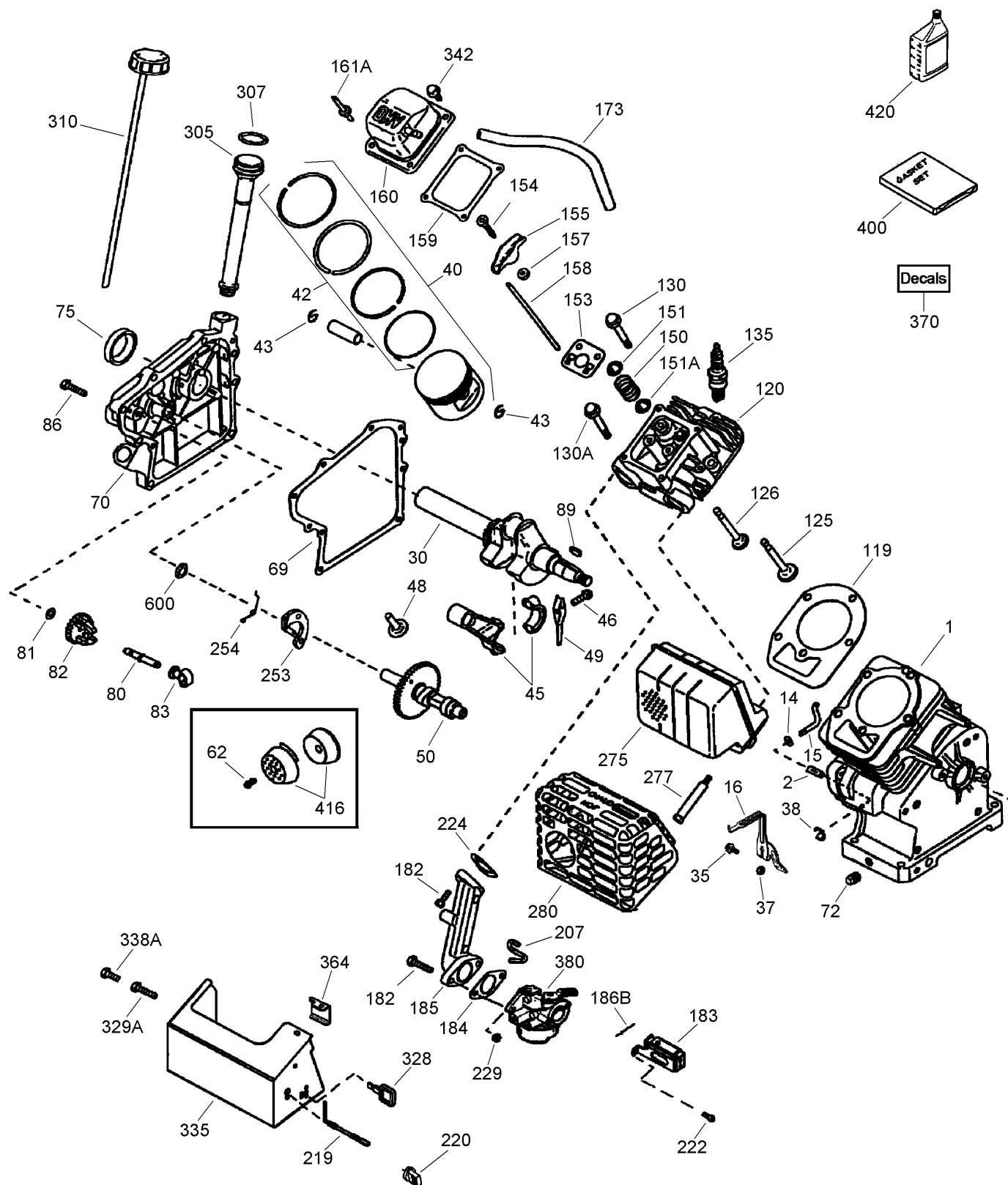


Control Assembly

Ref	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-HHF				
7	32151-61	1	Ring-Retaining				
8	40-9680	1	Spacer				
9	3296-42	1	Nut-Lock, NI				
10	32144-70	2	Screw-HWHTF				
11	43-7310-03	1	Traction Arm ASM				
12	1-808265	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, NI				
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 Assembly No. 1

Tecumseh OH195SA-72566G



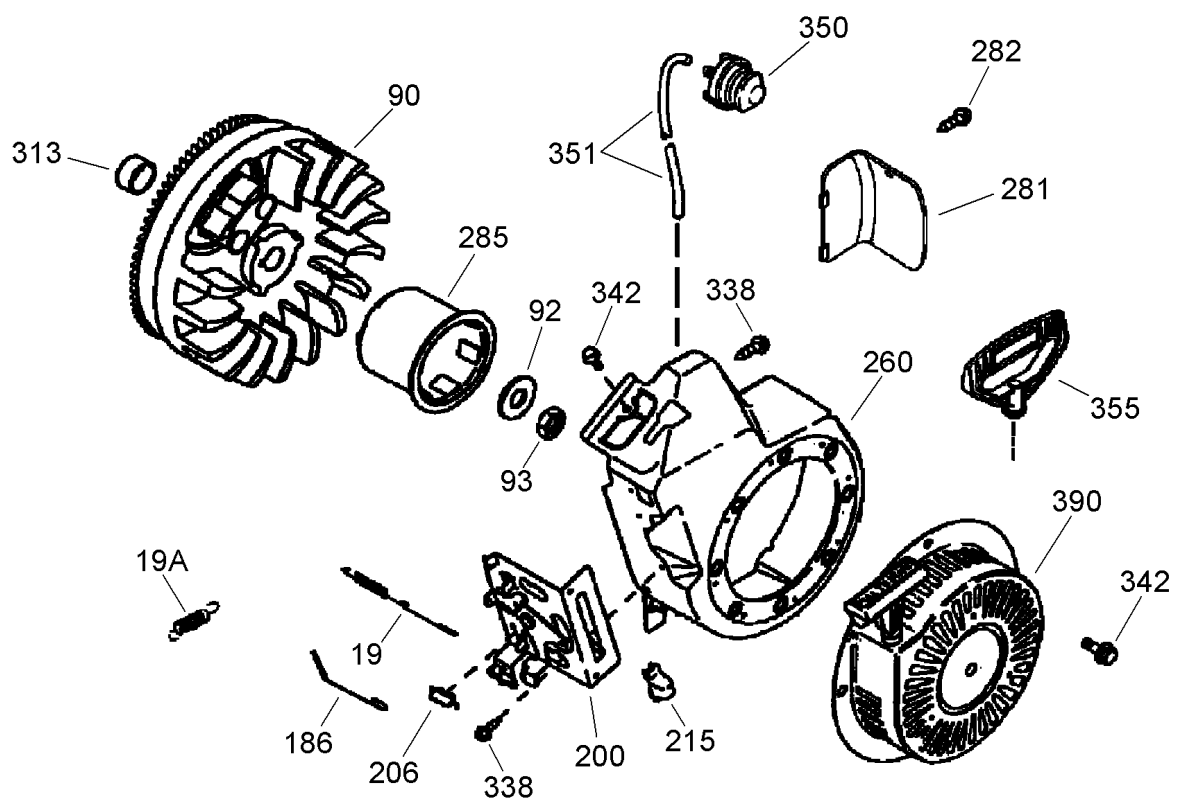
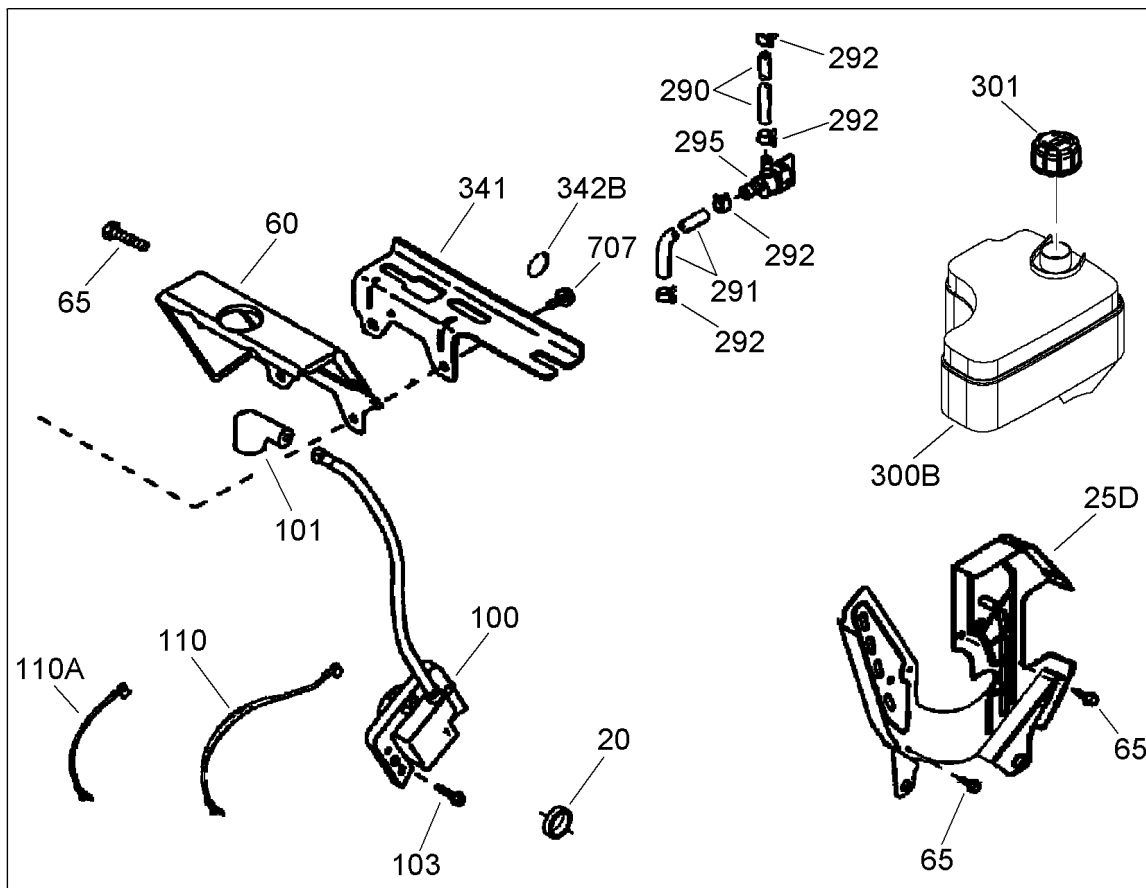
Engine Assembly No. 1

Tecumseh OH195SA-72566G

Ref	Part No.	Qty.	Description	Ref	Part No.	Qty.	Description
1	37120B	1	Cylinder ASM (Including 2, 20, 72, 72A, 325 And 325A)	158	36629	2	Rod-Push
2	26727	2	Pin-Dowel	159	35626	1	Gasket-Cover, Rocker Arm
14	651052	1	Washer	160	36630B	1	Cover-Arm, Rocker
15	37108	1	Rod-Governor (Including 38)	161A	651012	1	Stud
16	37110	1	Lever-Governor	173	37676	1	Tube-Breather
30	34740	1	Crankshaft ASM	182	650451	4	Screw (1/4-20 X 1)
35	651053	1	Screw (10-32 X 63/64)	183	36867	1	Bracket-Choke
37	651116	1	Nut-Square	184	26756	1	Gasket-Carburetor To Intake Pipe
38	37109	1	Ring-Retaining	185	36631	1	Pipe-Intake
40	40004	1	Piston, Pin And Ring Set (STD)	186B	36652	1	Spring-Choke
40	40005	1	Piston, Pin And Ring Set (.010 Os)	207	36632	1	Link-Throttle
42	40006	1	Ring Set (STD)	219	36868	1	Rod-Choke
42	40007	1	Ring Set (.010 Os)	220	35438	1	Knob-Control
43	20381	2	Ring-Retaining, Piston Pin	222	28820	2	Screw (10-32 X 1/2)
45	32875A	1	Connecting Rod ASM (Including 46 And 49)	224	36581	1	Gasket-Pipe, Intake
46	32610A	2	Bolt-Rod, Connecting	229	650852	4	Nut (1/4-20)
48	35616A	1	Lifter-Valve	253	36701	1	Weight-Release, Compression
49	36611	1	Dipper-Oil	254	36702	1	Spring-Release, Compression
50	37040	1	Camshaft (Including 150, 253 And 254)	275	37595A	1	Discharge-Muffler, Carburetor Side
62	650760	1	Screw (8-32 X 3/8)	277	650988	2	Screw (1/4-20 X 2-9/32)
69	36624	1	Gasket-Cover, Cylinder	280	37069	1	Shield-Heat
70	36625	1	Cover-Cylinder (Includes 75 Thru 83)	305	36877	1	Tube-Fill, Oil
72	27642	3	Plug-Drain, Oil (SQH 1/4-18)	307	35499	1	O-Ring
75	27897	1	Seal-Oil	310	36878	1	Dipstick
80	30574A	1	Shaft-Governor	328	35062	1	Key-Ignition (Also Available In Packaged Part 740077)
81	30590A	1	Washer	329A	651060	1	Screw (8-32 X 23/64)
82	30591	1	Governor Gear ASM	335	36873A	1	Cover-Carburetor
83	36057	1	Spool-Governor	338A	28942	1	Screw (10-32 X 3/8)
86	650488	8	Screw (1/4-20 X 1-1/4)	342	651008	9	Screw (1/4-20 X 31/64)
89	610961	1	Key-Flywheel (Also Available In Packaged Part 740007B)	364	36872	1	Bracket-Cover, Carburetor
119	36719	1	Gasket-Head, Cylinder	370	36899	1	Decal - Speed Control, Choke And Key
120	37474	1	Head-Cylinder (Includes 151A)	370	36534A	1	Instruction Decal - Caution - Read Owner's Manual
125	36471	1	Valve-Exhaust (STD) (Includes 151)	370	36501	1	Decal - Primer - International Symbol
125	36472	1	Valve-Exhaust (1/32 Os) (Includes 151)	370	36695	1	Decal - Tecumseh Logo For Top Of Recoil Starter
126	37711	1	Valve-Intake (STD) (Includes 151 And 151A)	370	37948	1	Decal - Hot Surfaces
130	650912	4	Screw (5/16-18 X 1-1/2)	380	640058A	1	Carburetor ASM (Includes 184)
130A	650999	1	Screw (5/16-18 X 2-41/64)	400	36720	1	Gasket Set
135	34645	1	Spark Plug-Resistor (R N 4C)	416	36085	1	Spark Arrestor Kit (Includes 151)
150	37039	2	Spring-Valve	420	730226A	0	Oil-Engine
151	31673	2	Cap-Valve, Spring	600	651013	1	Washer
151A	40016A	1	Seal-Valve, Intake	708	907366A	1	Engine Replacement
153	36649	1	Guide-Rod, Push	709	754300C	1	Short Block Replacement
154	650913	2	Stud-Arm, Rocker	999	730286	1	Winter Maintenance Kit (Includes 5W30 Oil)
155	35624A	2	Arm-Rocker	999	730296	1	Winter Maintenance Kit (Includes 0W30 Synthetic Oil)
157	650914	2	Nut (1/4-28)				

Engine Assembly No. 2

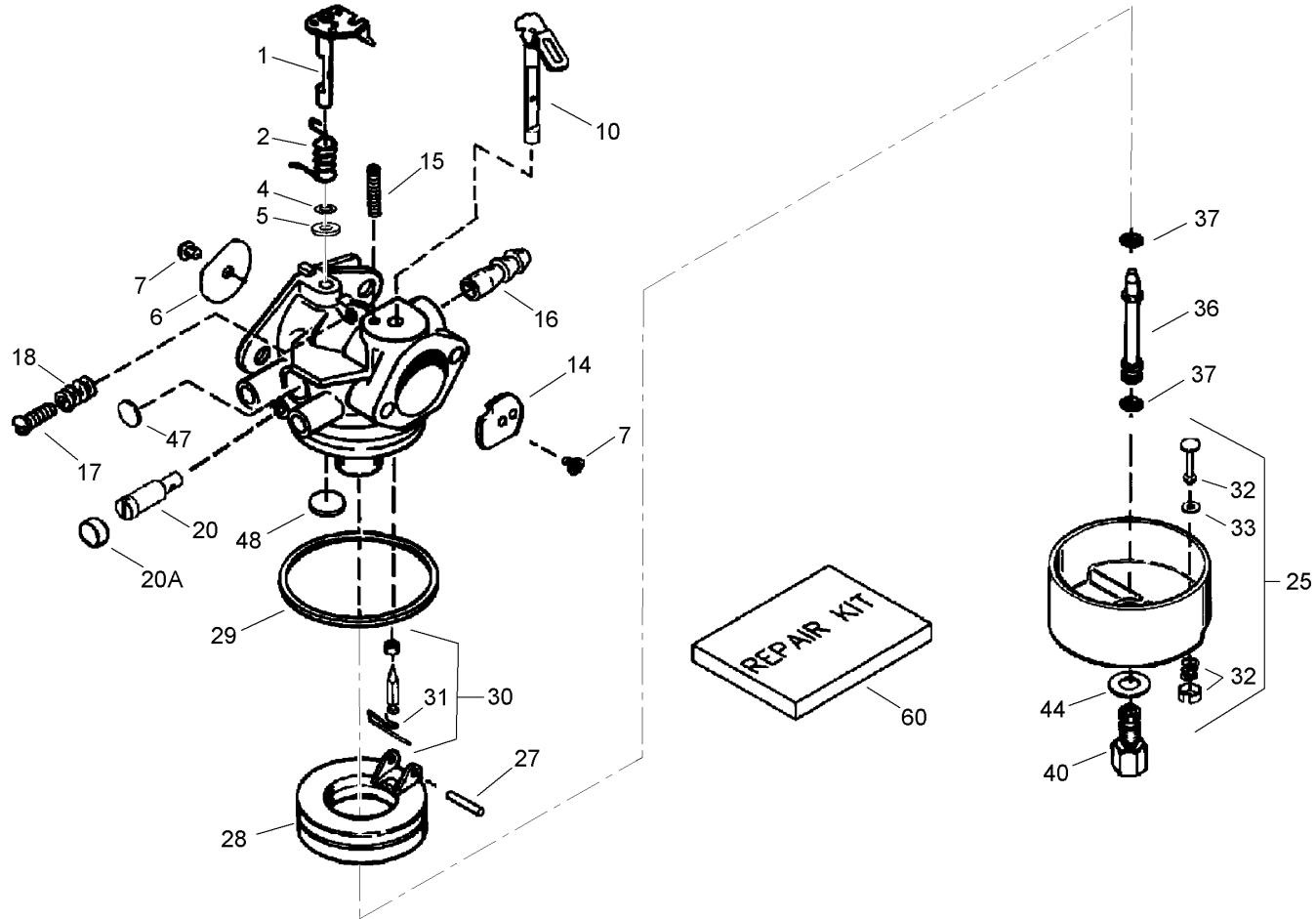
Tecumseh OH195SA-72566G



Engine Assembly No. 2

Tecumseh OH195SA-72566G

Ref	Part No.	Qty.	Description				
③19	37111	1	Spring-Throttle				
③19A	36750	1	Spring-Governor				
③20	32600	1	Seal-Oil				
③25D	37710	1	Baffle-Air (1 Piece, Electric Start)				
③60	36623A	1	Extension-Housing, Blower				
③65	30200	3	Screw (10-24 X 9/16)				
③90	611205	1	Flywheel				
③92	650815	1	Washer-Belleville				
③93	650816	1	Nut-Flywheel				
③100	34443C	1	Ignition-Solid State				
③101	610118	1	Cover-Spark Plug				
③103	651007	2	Screw (T-15, 10-24 X 15/16)				
③110	36230	1	Wire-Ground (Green, 9.0)				
③110A	36874	1	Wire-Ground (Green, 5.5)				
③186	36711	1	Link-Governor				
③200	36824A	1	Bracket-Control (Includes 206 And 215)				
③206	610973	2	Terminal				
③215	32410	1	Knob-Control				
③260	36901	1	Housing-Blower				
③281	36907A	1	Cover-Bubble, Starter				
③282	651035	1	Screw (6-32 X 25/64)				
③285	35985C	1	Cup-Starter				
③290	37963	1	Line-Fuel (16.0)				
③291	37962	1	Line-Fuel (8.62)				
③292	26460	4	Clamp-Line, Fuel				
③295	35857	1	Valve-Shut-Off, Fuel (Includes 292) (Also Available In Packaged Part 740073)				
③300B	37048	1	Fuel Tank ASM (Includes 292 And 301) 3.5 Quart				
③301	37845	1	Cap-Fuel (Red Plastic)(1-1/2 Id)				
③313	34080	1	Spacer				
③338	650821	8	Screw (10-32 X 1/2)				
③341	36644A	1	Bracket-Tank, Fuel				
③342	651008	9	Screw (1/4-20 X 31/64)				
③342B	651086	2	Washer-Rubber				
③350	570682A	1	Primer ASM (Also Available In Packaged Part 740101)				
③351	32180C	1	Line-Primer				
③355	590574	1	Handle-Starter, Mitten Grip (Also Available In Packaged Part 740053B)				
③390	590749	1	Starter-Rewind				
③707	651085	2	Screw (1/4-20 X 19/32)				

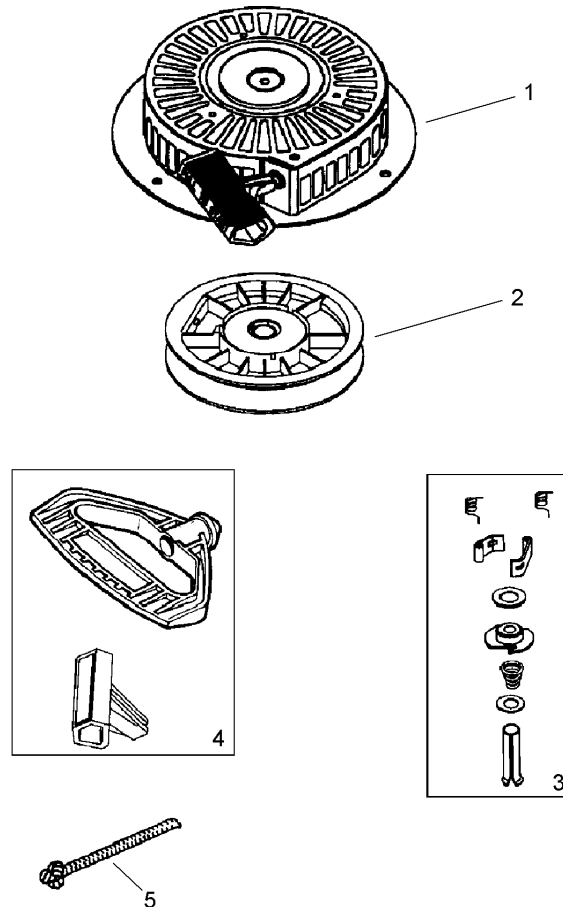


Carburetor Assembly No. 640058A
Tecumseh OH195SA-72566G

Ref	Part No.	Qty.	Description
30	640058A	1	Carburetor
31	631615	1	Throttle Shaft And Lever ASM
32	631767	1	Spring-Return, Throttle
34	631184	1	Washer-Seal, Dust
35	631183	1	Dust Seal (Throttle)
36	631036	1	Shutter-Throttle
37	650506	2	Screw-Shutter
310	632118	1	Choke Shaft And Lever ASM
314	631890	1	Shutter-Choke
315	630735	1	Spring-Positioning, Choke
316	632164	1	Fitting-Fuel
317	651025	1	Screw-Throttle Crack/Idle Speed
318	630766	1	Spring-Tension
320	640027	1	Spring-Restrictor, Idle
320A	640053	1	Cap-Screw, Idle Restrictor
325	631951	1	Float Bowl ASM
325	631867	1	Bowl-Float (No Drain)
327	631024	1	Shaft-Float
328	632802	1	Float (Plastic)
329	631028	1	O-Ring, Float Bowl
330	631021	1	Inlet Needle, Seat And Clip ASM
331	631022	1	Clip-Spring
332	27136A	1	Bowl Drain ASM
333	27554	1	Gasket-Plunger,

Ref	Part No.	Qty.	Description
336	640019	1	Tube-Nozzle, Main
337	632547	2	O-Ring, Main Nozzle Tube
340	640059	1	Nut-Bowl, High Speed
344	27110A	1	Washer-Nut, Bowl
347	630748	1	Plug-Welch, Idle Mixture Well
348	631027	1	Plug-Welch, Atmospheric Vent
360	632760	1	Repair Kit

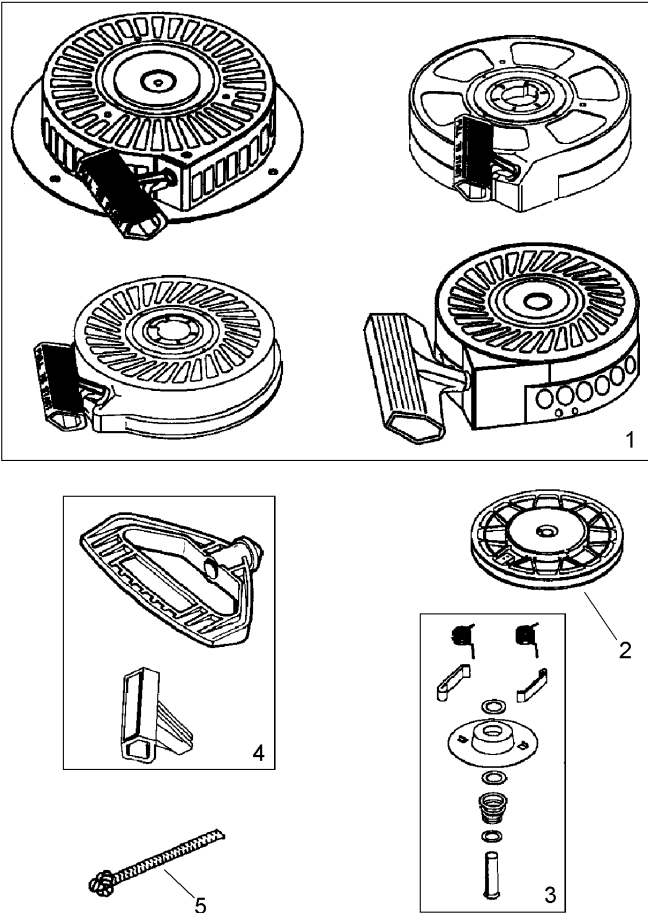
This illustration may not depict actual equipment and is for reference purposes only



Rewind Starter No. 590749
Tecumseh OH195SA-72566G

Ref	Part No.	Qty.	Description				
❸1	590749	1	Starter-Rewind				
❸2	590682	1	Pulley And Rewind Spring ASM				
❸3	590773	1	Repair Kit				
❸4	590574	0	Handle-Starter, Mitten Grip (Also Available In Packaged Part #740053B)				
❸5	590535	1	98 Starter Rope (Cut To Length)				

This illustration may not depict actual equipment and is for reference purposes only



Recoil Starter No. 590733 (Optional)
Tecumseh OH195SA-72566G

Ref	Part No.	Qty.	Description				
❶1	590733	1	Starter-Rewind				
❷2	590709	1	Pulley And Rewind Spring ASM				
❸3	590774	1	Repair Kit				
❹4	590574	0	Handle-Starter, Mitten Grip (Also Available In Packaged Part #740053B)				
❺5	590535	1	98 Starter Rope (Cut To Length)				

Attachments and Accessories

For 38606 - 622R Power Throw Snowthrower

Product Name	Model/Part
22 Inch Drift Breaker	37-7022
Tire Chain Kit	56-2700
Snow Cab	88-0600

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