



Insight™ Lawn Mower

Model No. 10687 - 260000001 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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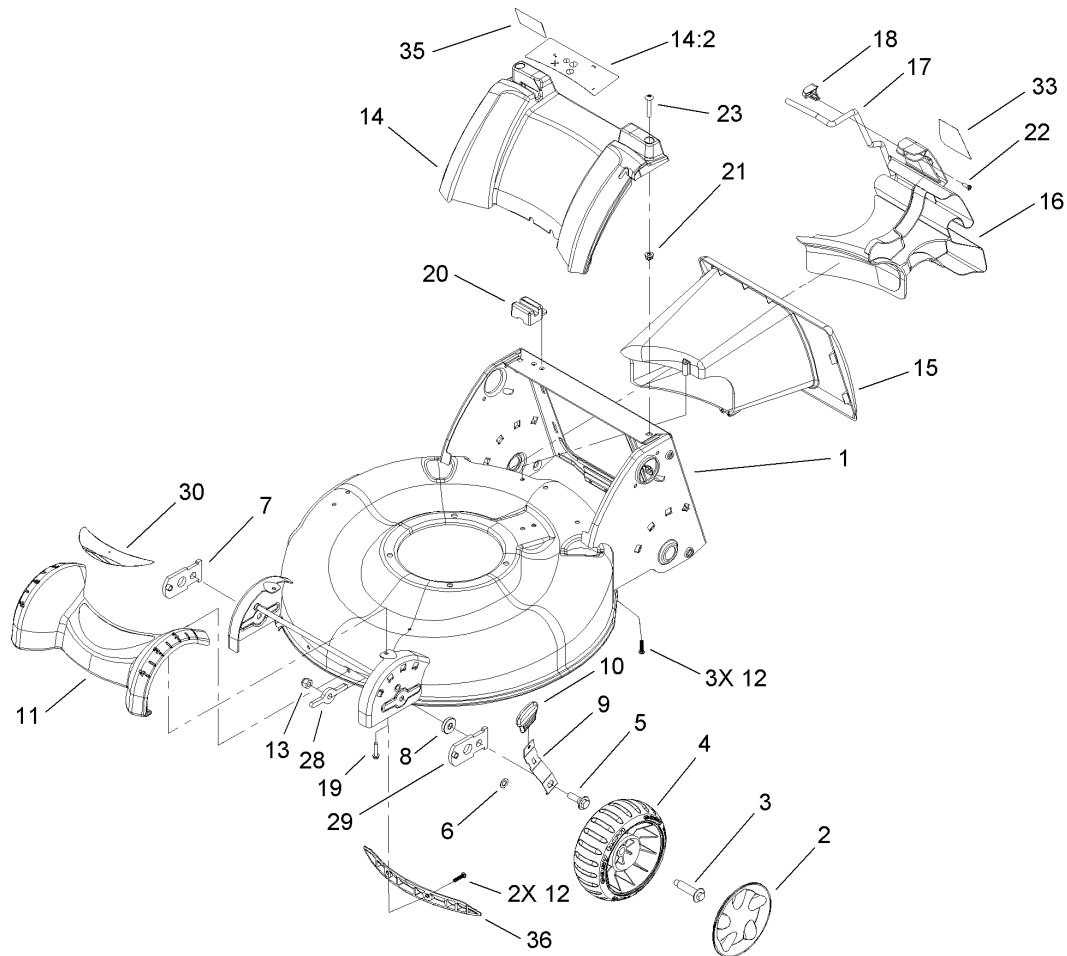
Part Description Abbreviations

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

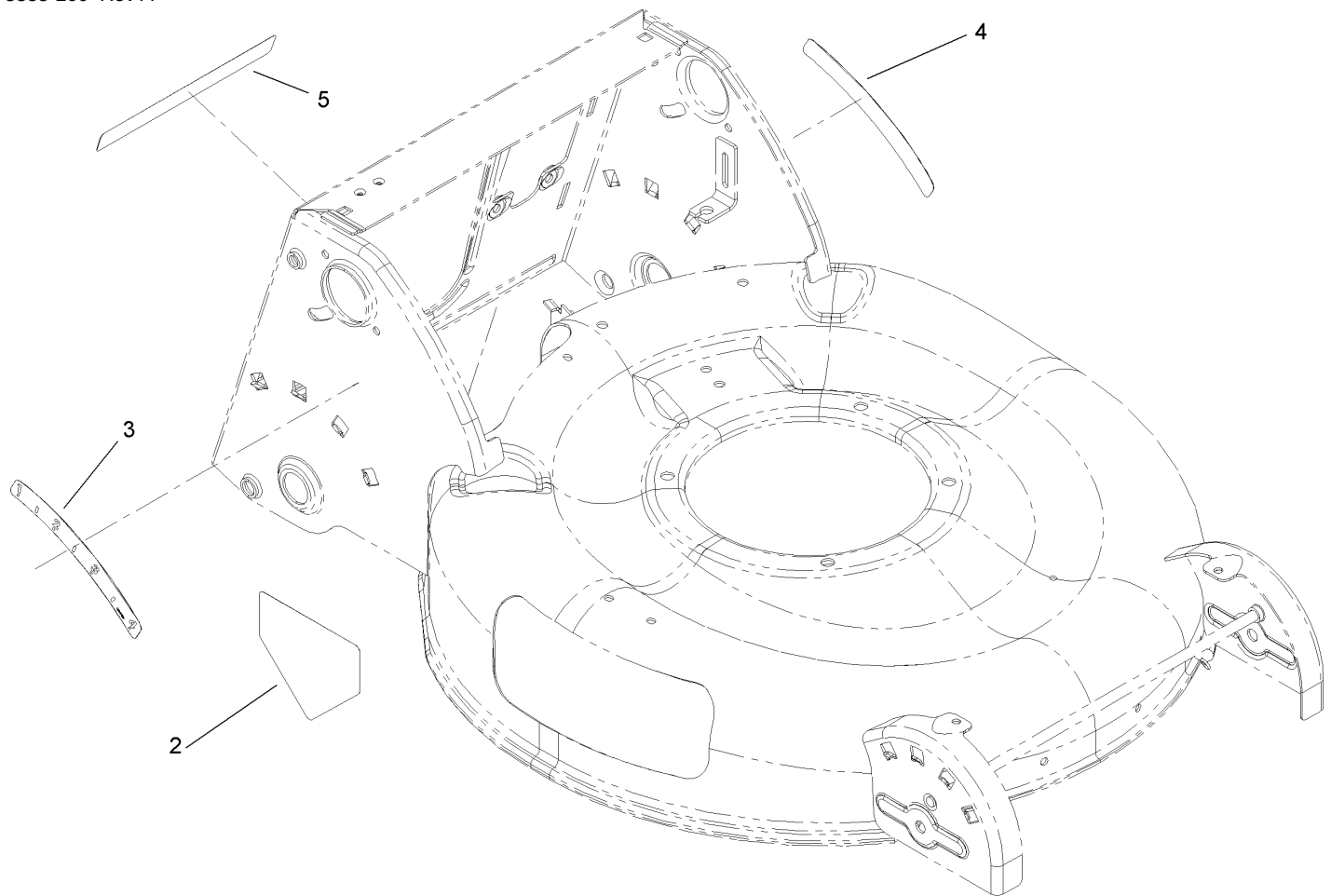
Footnotes

- | | |
|--|----------------------------------|
| ❶ Not illustrated | ❷ Not serviced separately |
| ❸ Obtain from your local Tecumseh dealer | ❹ Included in Repair Kit 632760B |
| ❺ Included in Gasket Kit 37613A | |



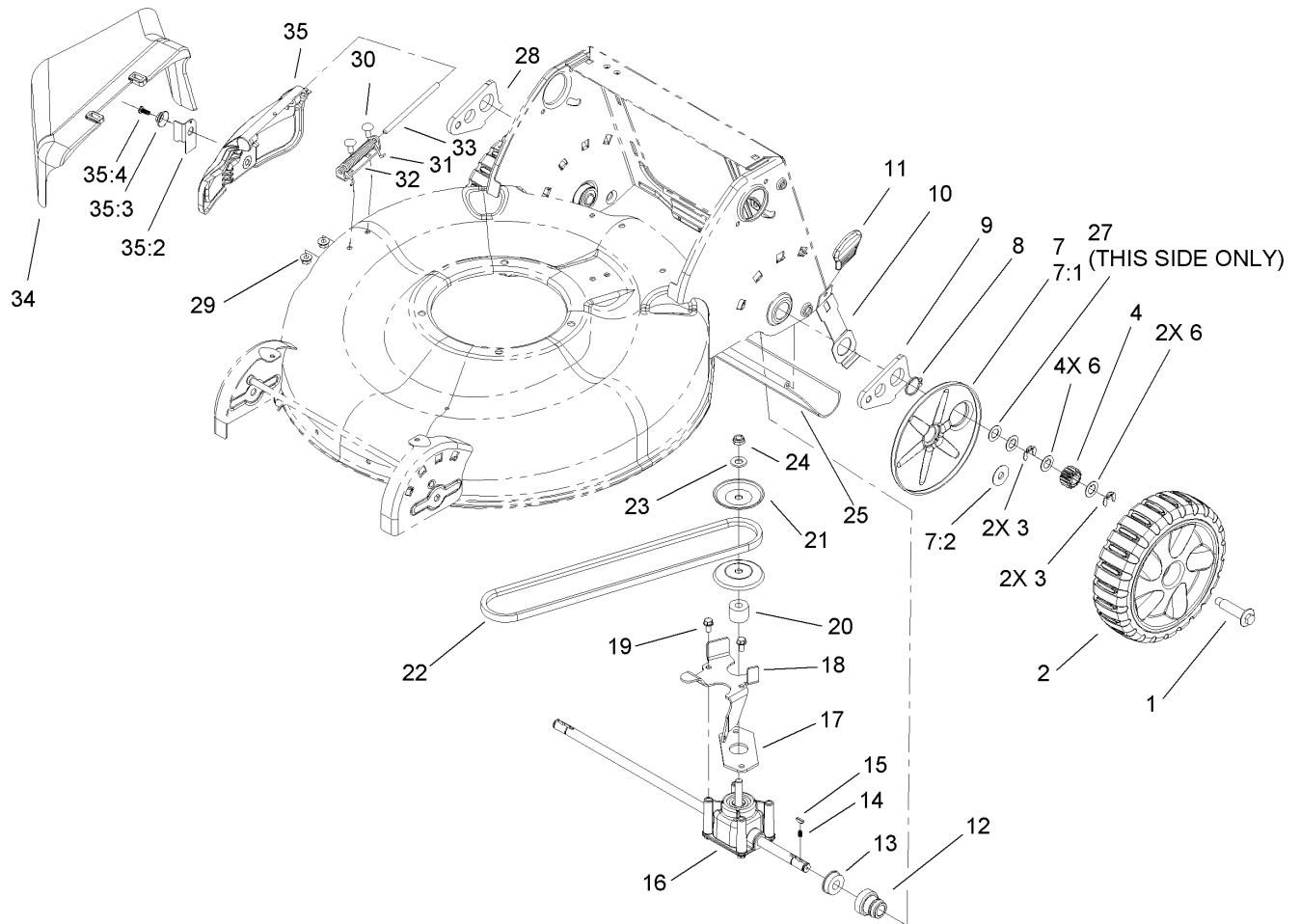
Front End and Tunnel Assembly

Ref	Part No.	Qty.	Description	Ref	Part No.	Qty.	Description
1	108-9347	1	Housing ASM	28	108-1048	2	Washer-Support, Front
2	107-3886	2	Cover-Wheel, 7 Inch	29	108-1044	1	Arm-Pivot, LH
3	614650	2	Bolt-Shoulder	30	108-7453	1	Decal
4	107-3891	2	7 Inch Wheel ASM	33	108-7461	1	Decal
5	614672	2	Bolt-Shoulder	35	107-1938	1	Decal-Bag Attachment
6	40-1940	2	Washer	36	108-7502	1	Insert-Housing
7	107-3877	1	Arm-Pivot, RH	39	110-1751	1	Mulch Plug ASM
8	92-4890	2	Washer				
9	107-3878	2	Arm-Spring				
10	107-1904	2	Knob-Lever, HOC				
11	107-3926	1	Cover-Front				
12	108-7476	5	Screw-Plastite				
13	3296-39	2	Nut-Lock, NI				
14	108-9349	1	Cover-Rear				
14:2	107-3888	1	Decal-Safety				
15	107-3905	1	Tunnel				
16	107-3907	1	Plug-Chute				
17	108-1038	1	Latch-Plug				
18	108-0956	1	Retainer-Latch				
19	108-7475	2	Screw-Plastite				
20	112-1516	1	Module-Switch/Tec Bcs				
21	94-1610	2	Nut-Clip				
22	32144-111	1	Screw-PPH				
23	108-0965	2	Screw-PTH				



Housing Assembly No. 108-9347

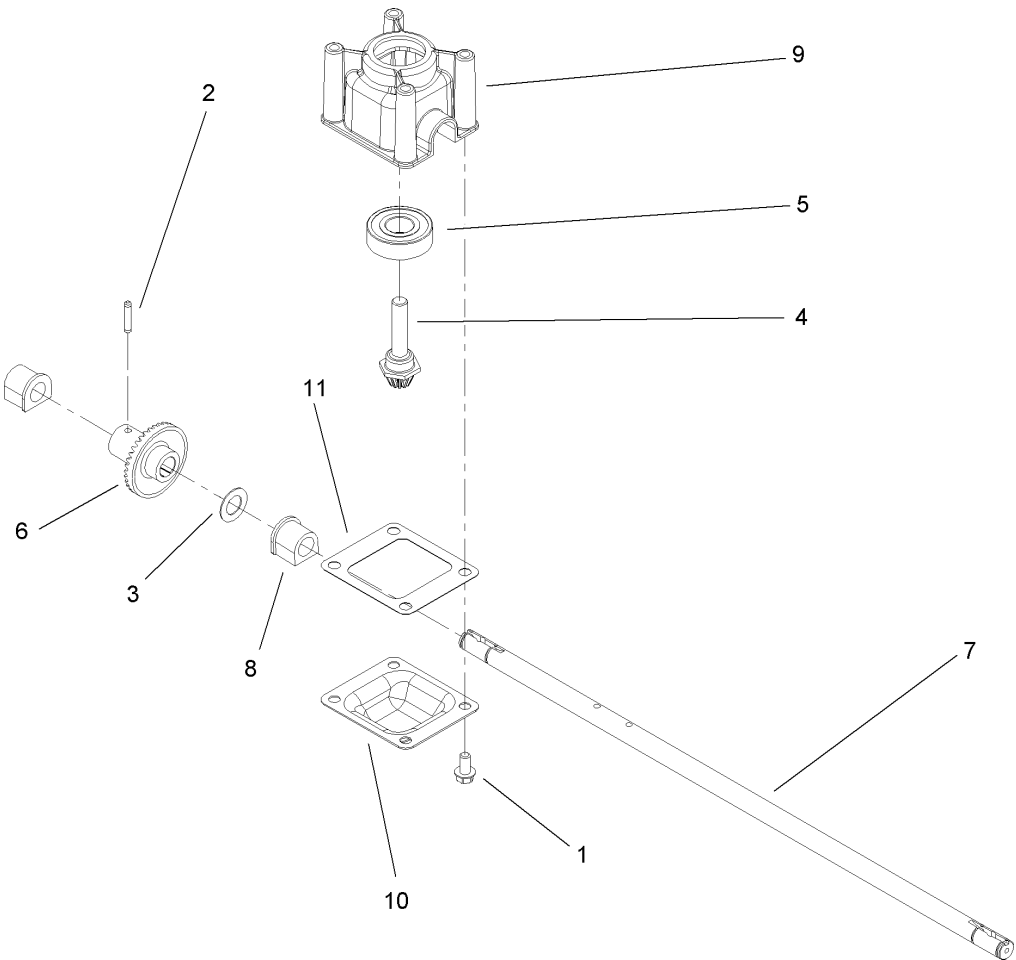
Ref	Part No.	Qty.	Description
2	94-8072	1	Decal-Danger
3	108-7450	1	Decal-HOC, RH
4	108-7451	1	Decal-HOC, LH
5	107-3889	1	Decal-Safety



Rear Axle and Transmission Assembly

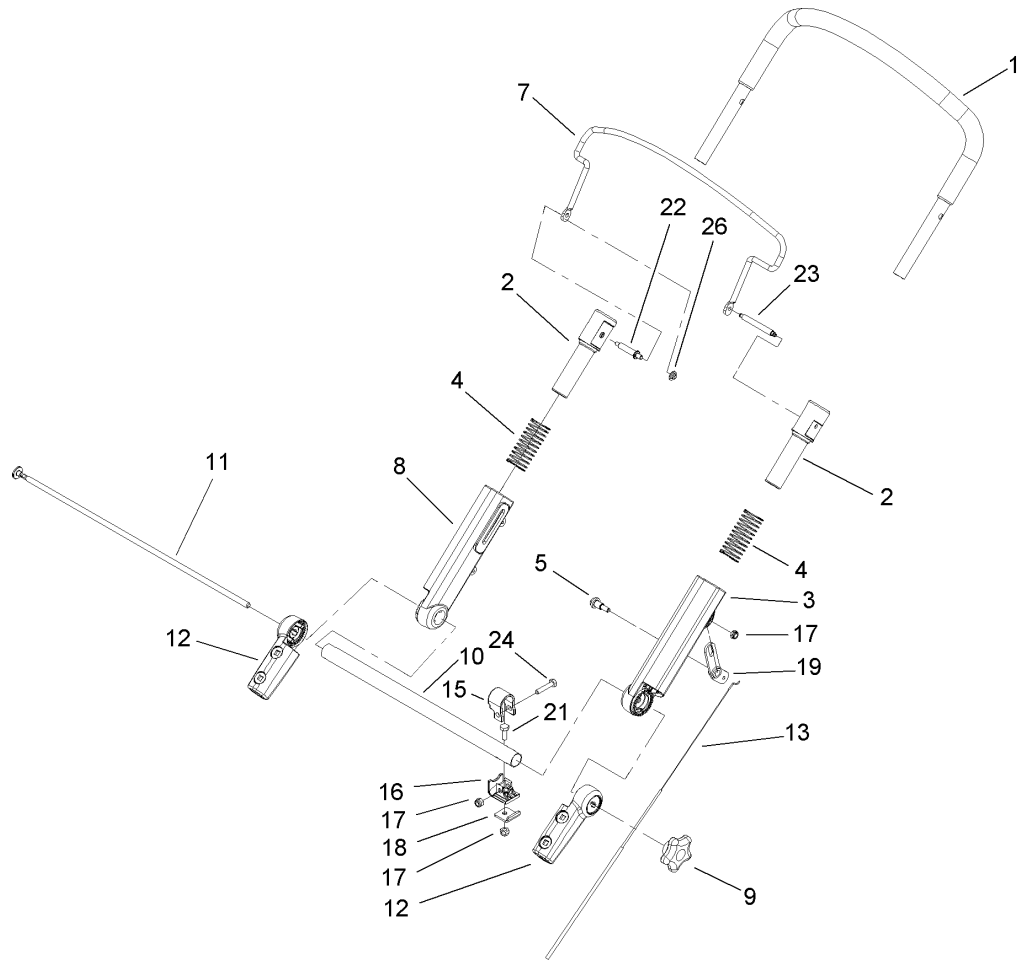
Ref	Part No.	Qty.	Description
1	614650	2	Bolt-Shoulder
2	107-3906	2	Rear Wheel ASM
3	65-2720	4	Klipring-Locking
4	105-3040	2	Gear-Pinion, 15T
6	105-6840	6	Washer-Thrust
7	108-7505	2	Wheel Cover ASM
1 2 7:1		1	Cover-Wheel
7:2	614426	1	Washer-Stepped
8	32151-36	2	Ring-Retaining
9	108-9344	1	Arm-Rear Pivot, LH
10	107-3880	2	Arm-Spring, Rear
11	107-1904	2	Knob-Lever, HOC
12	104-8698	2	Retainer-Bearing, HOC
13	104-8699	2	Bearing-Ball
14	39-9650	2	Spring-Compression
15	612066	2	Key
16	107-3860	1	Transmission ASM
17	108-9756	1	Gasket-Gearbox
18	107-3884-03	1	Bracket-Transmission
19	32144-4	2	Screw-HWH
20	92-5791	1	Spacer
21	100-1176	2	Pulley-Half
22	91-2258	1	V-Belt
23	3256-24	1	Washer-Flat

Ref	Part No.	Qty.	Description
24	3296-5	1	Nut-Lock
25	107-3904	1	Shield-Trailing
27	36-4780	1	Washer
28	108-9343	1	Arm-Rear Pivot, RH
29	32128-32	2	Nut-HHF
30	3229-11	2	Screw-CARR
31	99-5293	1	Spring-Torsion
32	99-5292	1	Bracket-Cover
33	99-5291	1	Rod-Cover
34	105-3028	1	Chute-Discharge, Side
35	106-8376	1	Discharge Door ASM
35:2	107-0795	1	Latch-Door
35:3	107-7456	1	Cap-Door
35:4	107-7461	1	Screw-Plastite



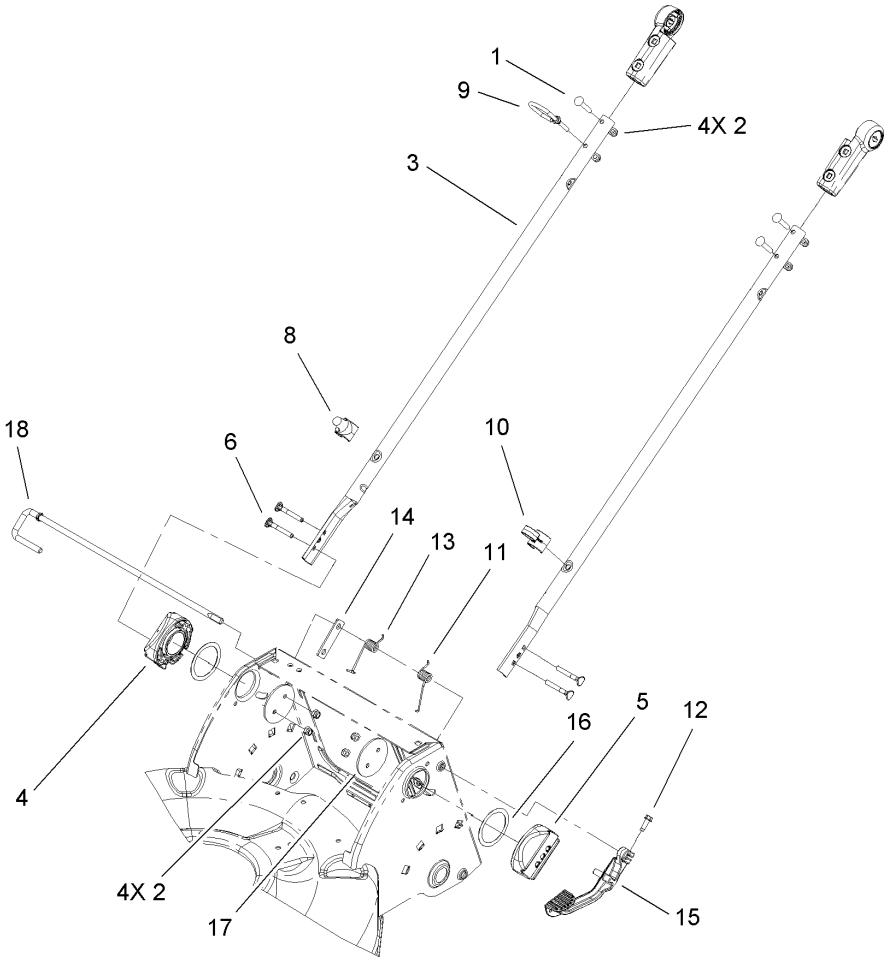
Transmission Assembly No. 107-3860

Ref	Part No.	Qty.	Description				
1	32144-4	4	Screw-HWH				
2	3285-19	1	Pin-Groove				
3	36-4780	1	Washer				
4	92-5790	1	Pinion				
5	100-1048	1	Bearing-Ball				
6	104-8671	1	Gear-Bevel, 37T				
7	107-3861	1	Shaft-Output				
8	104-8673	2	Bushing-Shaft, Output				
9	104-8674	1	Gearcase-Upper				
10	104-8675-03	1	Cover-Gearcase				
11	105-6839	1	Gasket-Gearcase				



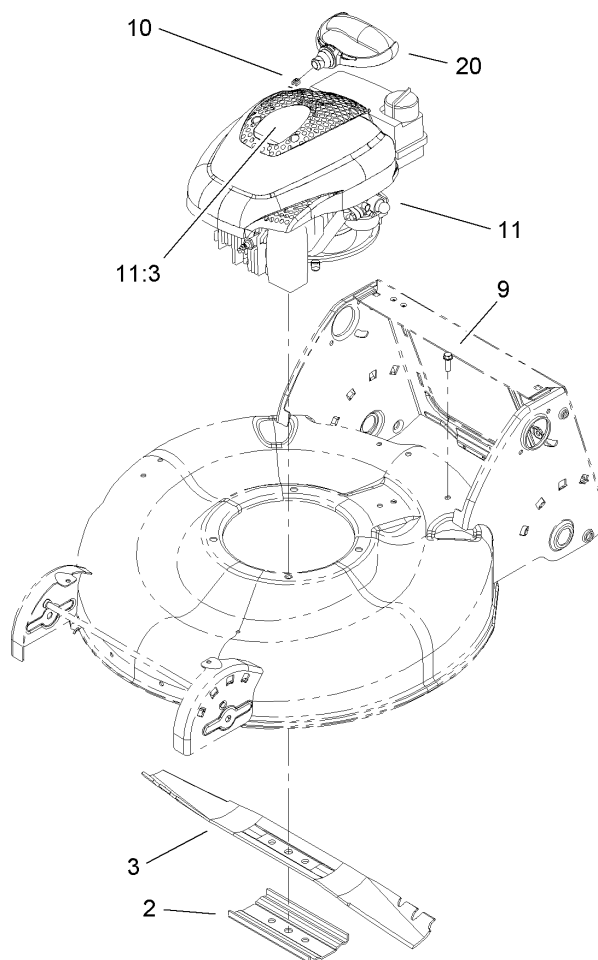
Upper Handle Assembly

Ref	Part No.	Qty.	Description				
1	108-0974	1	Upper Handle ASM				
2	107-3866	2	Sleeve-Handle				
3	110-1755	1	Slide-Top, LH				
4	107-3869	2	Spring-Compression				
5	104-0858	1	Bolt-Shoulder				
7	107-3874-03	1	Bail-Brake				
8	107-3863	1	Slide-Top, RH				
9	107-3937	1	Knob				
10	107-3867-03	1	Tube-Cross				
11	107-3871	1	Rod-Threaded				
12	107-3865	2	Mount-Handle, Lower				
13	107-3902	1	Cable-Traction				
15	108-1045	1	Support-Cable				
16	108-1046	1	Support-Guide, Cable				
17	3296-73	3	Nut-Lock, NI				
18	108-7454	1	Clamp-Cable				
19	107-3893	1	Lever-Traction				
21	321-4	1	Screw-HH				
22	108-0959	1	Pin-Handle				
23	110-1753	1	Pin-Handle, BBC				
24	108-0988	1	Screw-CARR				
26	108-9378	1	Retainer-Push On				



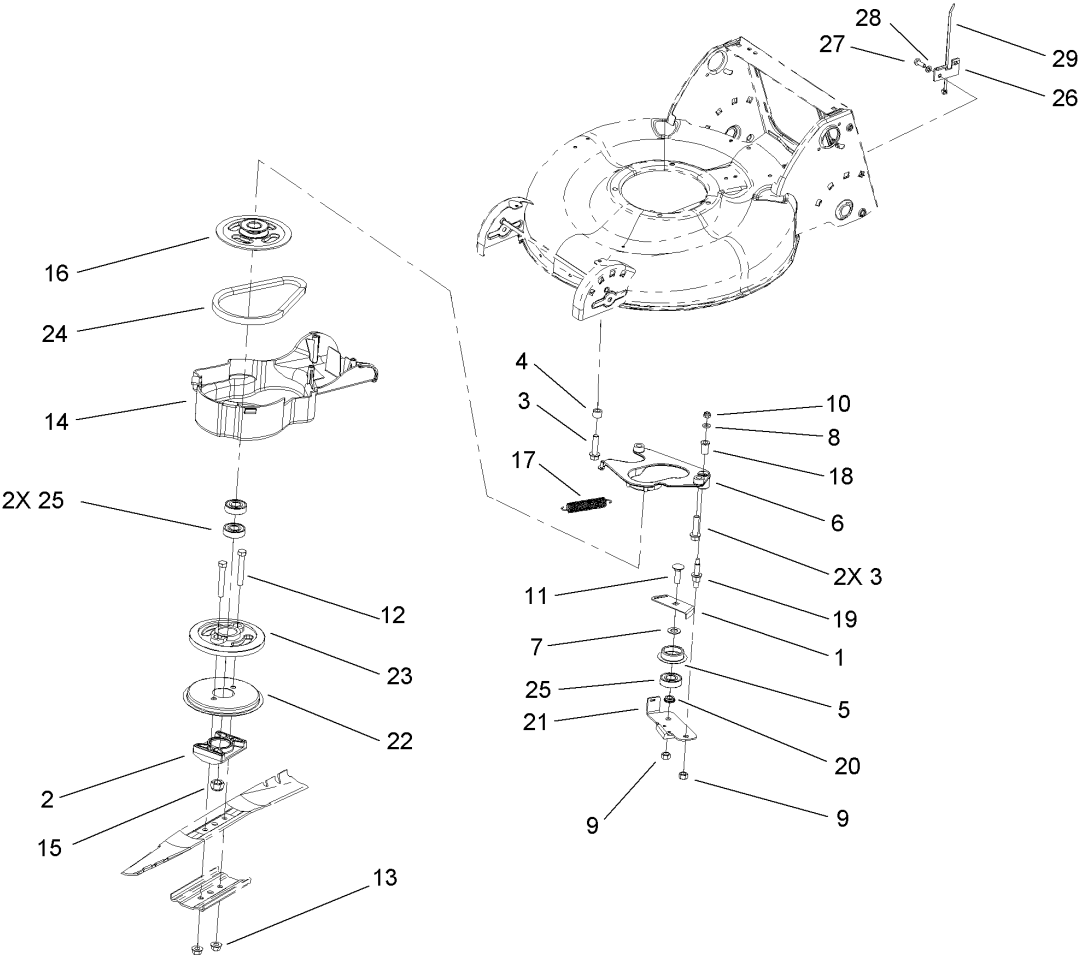
Lower Handle Assembly

Ref	Part No.	Qty.	Description				
1	108-0988	3	Screw-CARR				
2	3296-73	8	Nut-Lock, NI				
3	107-3887-03	2	Tube-Lower				
4	108-9339-03	1	Mount-Handle, RH				
5	108-9340-03	1	Mount-Handle, LH				
6	95-4453	4	Screw				
8	108-0994	1	Guide-Rope, Lower				
9	107-3908	1	Guide-Rope, Upper				
10	106-6805	1	Guide-Cable				
11	108-0952	1	Spring-Torsion, LH				
12	49-2040	1	Screw-HWHTF				
13	108-0953	1	Spring-Torsion, RH				
14	107-3946	1	Plate-Lock, Handle				
15	110-1823-03	1	Lever-Release				
16	107-3947	2	Washer-Nylon				
17	107-3944-03	2	Plate				
18	110-1822	1	Rod-Release, Handle				



Blade and Engine Assembly

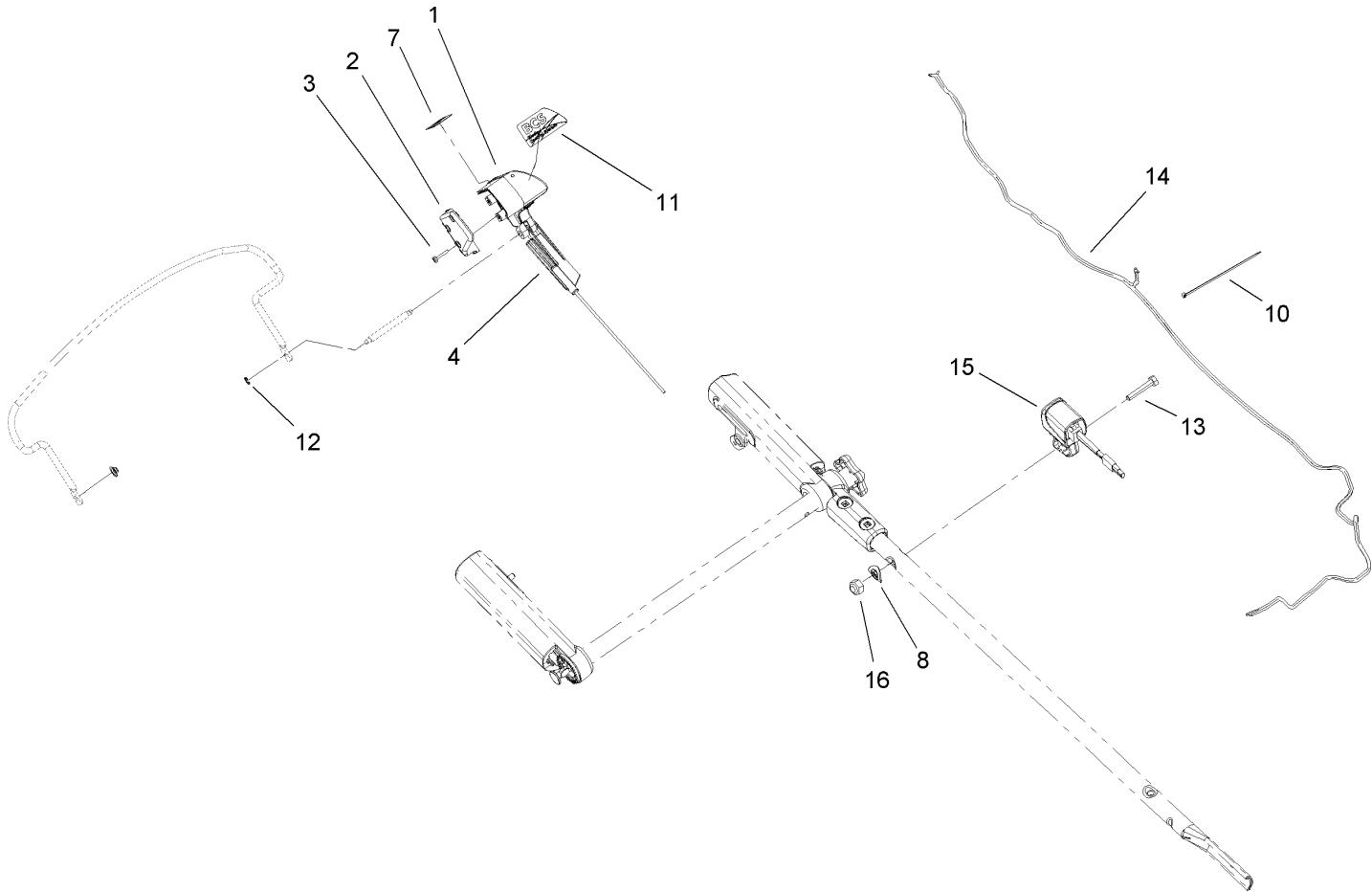
Ref	Part No.	Qty.	Description				
2	108-3766-03	1	Support-Blade				
3	108-0954-03	1	Blade-21 Inch				
9	46-8091	3	Screw-HWH				
10	92-1701	1	Stop-Rope				
2 3 11		1	Engine-Tecumseh, Lv195Ea-362077D				
11:3	108-7452	1	Decal-Recoil				
20	110-1778	1	Handle-Recoil				



Blade Brake Clutch Assembly

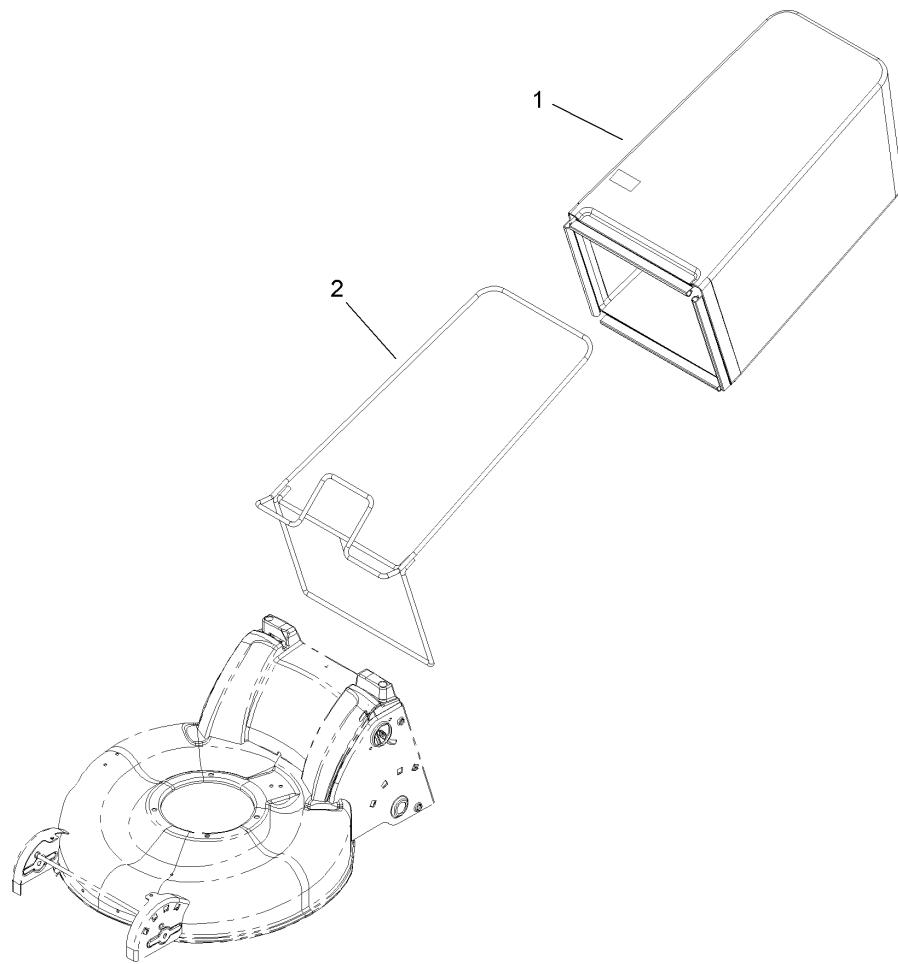
Ref	Part No.	Qty.	Description
1	107-7471	1	Plate-Guide
2	107-7487	1	Support-Blade
3	32144-102	3	Screw-HWH
4	100-6447	1	Tube-Spacer
5	108-3790	1	Retainer-Belt
6	108-9341	1	Plate-Anchor
7	605256	1	Washer
8	3256-16	1	Washer-Flat
9	603773	2	Nut
10	3296-73	1	Nut-Lock, NI
11	3231-25	1	Screw-CARR
12	3211-42	2	Screw-HH
13	54-9190	2	Nut-Lock
14	112-1525	1	Cover-BBC
15	108-9342	1	Nut-Hex
16	110-7456	1	Pulley-BBC
17	108-3792	1	Spring-Tension, Brake
18	107-0797	1	Bushing
19	107-0759	1	Bolt-Shoulder
20	107-0758	1	Spacer-Bearing
21	107-7477	1	Brake Arm ASM
22	108-3787	1	Disc
23	107-0754	1	Drum
24	110-1790	1	Belt-BBC

Ref	Part No.	Qty.	Description
25	100-1048	3	Bearing-Ball
26	110-1780	1	Clamp-Cable, BBC
27	321-4	1	Screw-HH
28	3253-3	1	Washer-Lock
29	614249	1	Strap-Tie



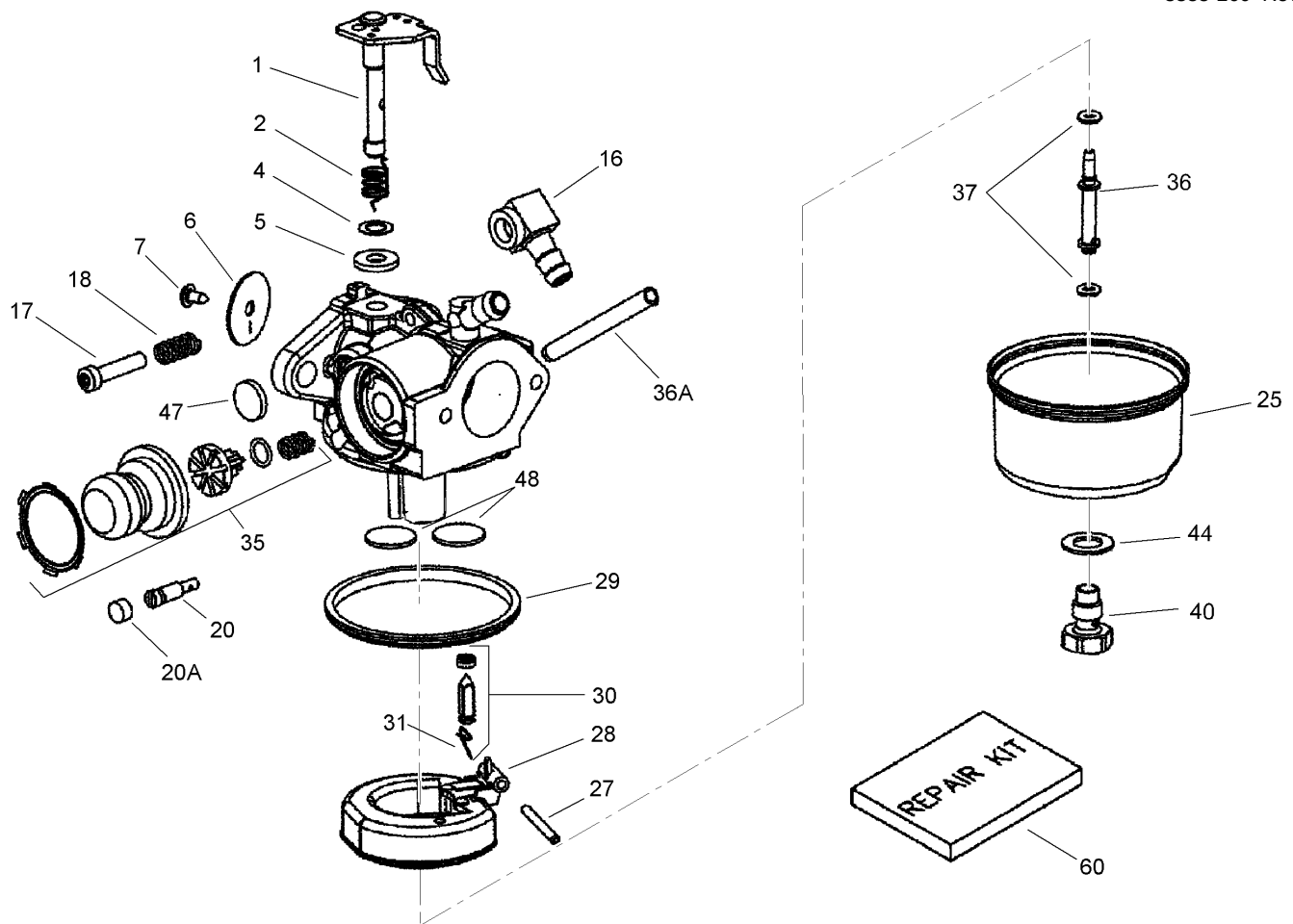
Upper Handle Assembly

Ref	Part No.	Qty.	Description				
1	112-1519	1	Button ASM				
2	108-7532	1	Cover-Switch				
3	32144-111	3	Screw-PPH				
4	108-7520	1	Cable-Brake				
7	108-9393	1	Decal-Blade, BBC				
8	107-3844	1	Washer				
10	614249	4	Strap-Tie				
11	108-9394	1	Decal-Control, Blade				
12	110-1758	1	Ring-Retaining				
13	321-51	1	Screw-HH				
14	112-1524	1	Harness-Wire				
15	112-1518	1	Switch Housing ASM				
16	3296-73	1	Nut-Lock, NI				



Rear Bag Assembly

Ref	Part No.	Qty.	Description
1	107-3911	1	Bag-Grass
2	107-3912-03	1	Bag Frame ASM



Carburetor Assembly No. 640350

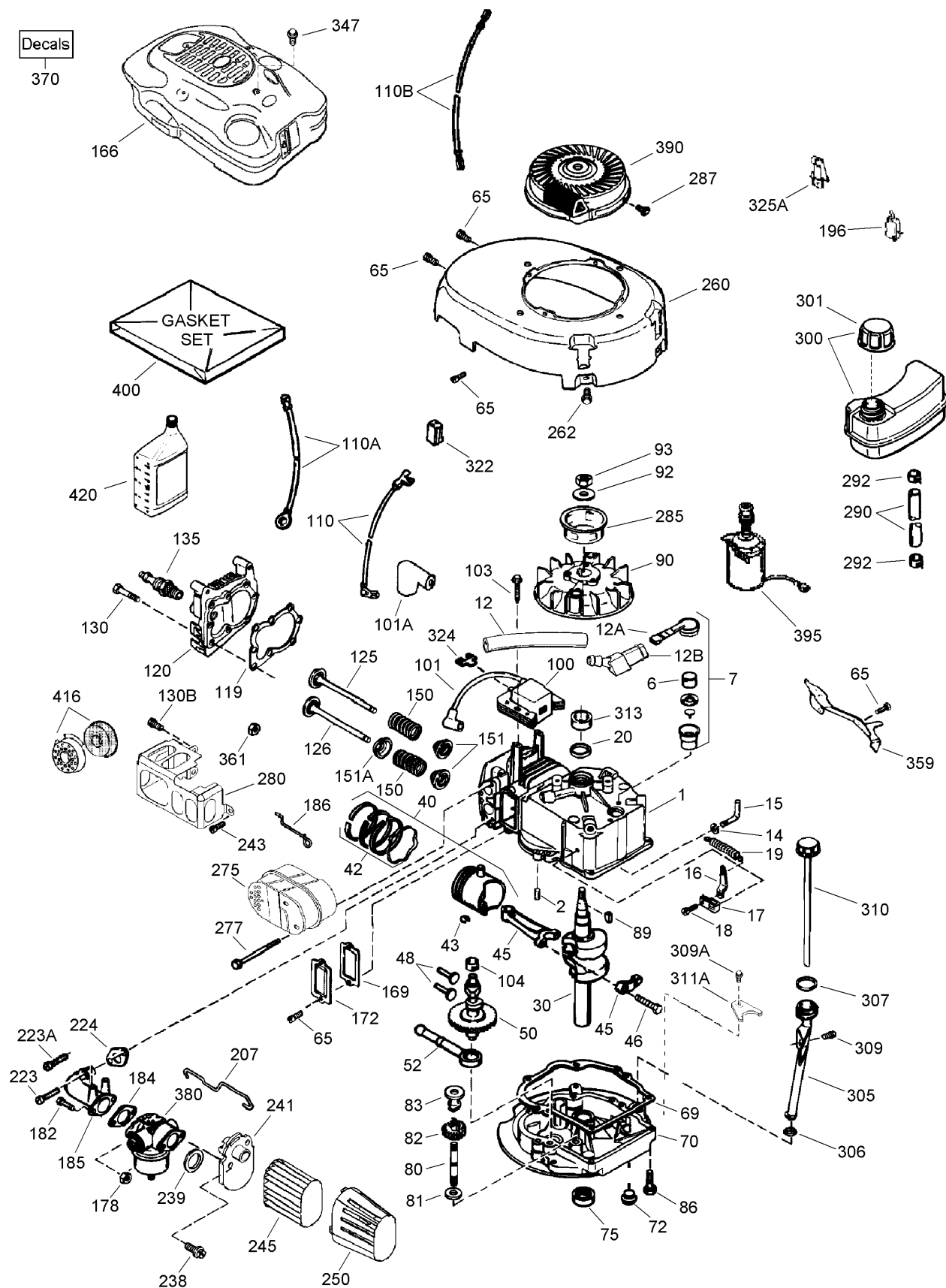
Tecumseh LV195EA-362077D

Ref	Part No.	Qty.	Description
30	640350	1	Carburetor ASM
31	631615	1	Throttle Shaft And Lever ASM
32	631767	1	Spring-Return, Throttle
344	631184	1	Washer-Seal, Dust
345	631183	1	Dust Seal (Throttle)
36	640070	1	Shutter-Throttle
347	650506	1	Screw-Shutter
316	631807	1	Fitting-Fuel
317	651025	1	Screw-Throttle Crack/Idle Speed
318	630766	1	Spring-Tension
320	640016	1	Screw-Restrictor, Idle
320A	640200	1	Cap-Screw, Restrictor Idle
325	631867	1	Bowl-Float (No Drain)
3427	631024	1	Shaft-Float
328	632802	1	Float (Plastic)
3429	631028	1	O-Ring, Float Bowl
3430	631021A	1	Inlet Needle, Seat And Clip ASM (Includes 31)
331	631022	1	Clip-Spring
335	640351	1	Primer Bulb/Valve Repair Kit
336	640080	1	Tube-Nozzle, Main
336A	632766	1	Tube-Carburetor
3437	632547	2	O-Ring, Main Nozzle Tube
340	640030	1	Nut-Bowl, High Speed

Ref	Part No.	Qty.	Description
3444	27110A	1	Washer-Nut, Bowl
3447	630748	1	Plug-Welch, Idle Mixture Well
3448	631027	2	Plug-Welch, Atmospheric Vent
360	632760B	1	Repair Kit

Engine Assembly No. 1

Tecumseh LV195EA-362077D



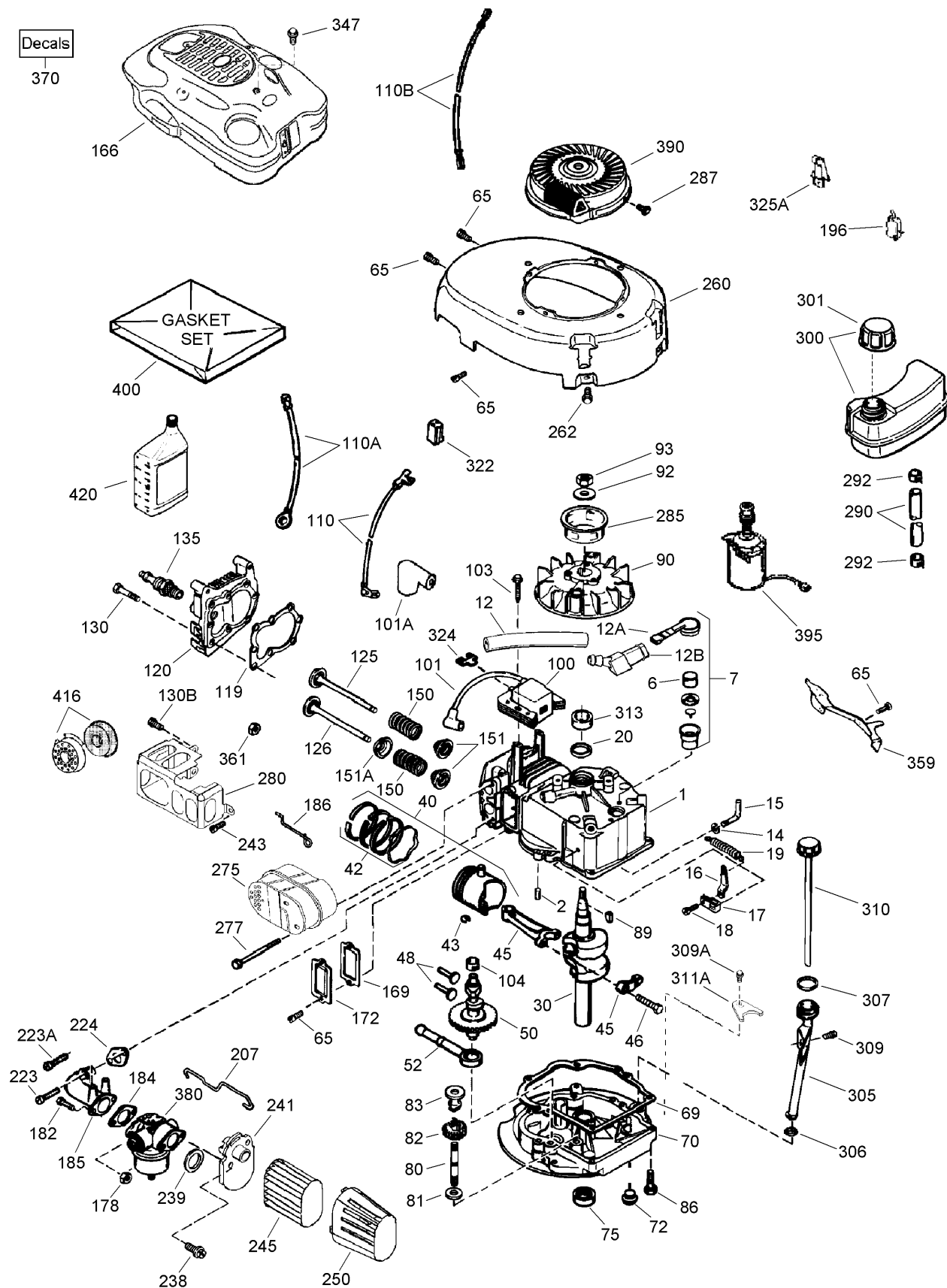
Engine Assembly No. 1

Tecumseh LV195EA-362077D

Ref	Part No.	Qty.	Description	Ref	Part No.	Qty.	Description
③1	37465	1	Cylinder ASM (Includes 2 And 20)	③110A	36953	1	Wire ASM
③2	26727	2	Pin-Dowel	③110B	36954	1	Wire ASM
③6	33734	1	Element-Breather	③119	37796	1	Gasket-Head, Cylinder
③7	36557	1	Breather ASM (Includes 6 And 12A)	③120	37714	1	Head-Cylinder
③12	37944	1	Tube-Breather	③125	36780	1	Valve-Exhaust (1/32 Os) (Includes 151)
③12A	36558	1	Breather Cover And Tube ASM (Includes 12B)	③125	37288	1	Valve-Exhaust (STD) (Includes 151)
③12B	36694	1	Elbow-Tube, Breather	③126	37289	1	Valve-Intake (STD) (Includes 151)
③14	28277	1	Washer-Flat	③130	6021A	8	Screw (5/16-18X1-1/2)
③15	30589	1	Governor Rod ASM (Includes 14)	③130B	650737	1	Screw (1/4-20 X 1/2)
③16	34839A	1	Lever-Governor	③135	35395	1	Spark Plug-Resistor (R J19 L M) (Also Available In Packaged Part 740081)
③17	31335	1	Clamp-Lever, Governor				
③18	651018	1	Screw (T-15, 8-32 X 19/64)				
③19	36281	1	Spring-Extension				
③20	32600	1	Seal-Oil				
③30	38001	1	Crankshaft				
③40	40045	1	Piston, Pin And Ring Set (.010 Os) (Includes 42)				
③40	40044	1	Piston, Pin And Ring Set (STD) (Includes 42)				
③42	40007	1	Ring Set (.010 Os)				
③42	40006	1	Ring Set (STD)				
③43	20381	2	Ring-Retaining, Piston Pin				
③45	36777	1	Connecting Rod ASM (Includes 46)				
③46	32610A	2	Bolt-Rod, Connecting				
③48	27241	2	Lifter-Valve				
③50	37460	1	Camshaft ASM (Exhaust Mcr) (Includes 104)				
③52	29914	1	Oil Pump ASM				
③65	30200	6	Screw (10-24 X 9/16)				
③69	37609	1	Gasket-Flange, Mounting				
③70	37608A	1	Mounting Flange ASM (Includes 72 Thru 83, 306, 309A And 311A)				
③72	37614	1	Plug-Drain, Oil (Flush Mount)				
③75	27897	1	Seal-Oil				
③80	30574A	1	Shaft-Governor				
③81	30590A	1	Washer				
③82	30591	1	Governor Gear ASM (Includes 81)				
③83	30588A	1	Spool-Governor				
③86	650488	6	Screw (1/4-20 X 1-1/4)				
③89	611298	1	Key-Flywheel				
③90	37999	1	Flywheel (Plastic Ring-Gear)				
③92	650815	1	Washer-Belleville				
③93	650816	1	Nut-Flywheel				
③100	34443C	1	Ignition-Solid State				
③101	610118	1	Cover-Spark Plug				
③101A	611283	1	Shield-Spark Plug L-Head				
③103	651007	2	Screw (T-15, 10-24 X 15/16)				
③104	37480	1	Bushing-Cam				
③110	37021	1	Wire-Ground				
③110A	37047	1	Wire-Ground (10.50 With Male And Female Flag Terminals)				

Engine Assembly No. 2

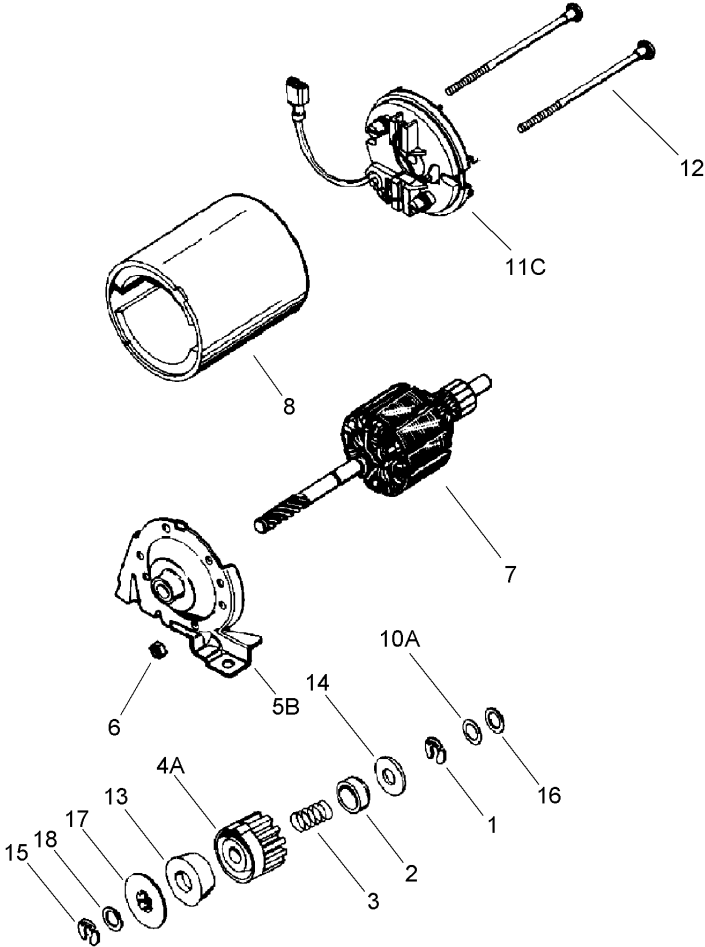
Tecumseh LV195EA-362077D



Engine Assembly No. 2

Tecumseh LV195EA-362077D

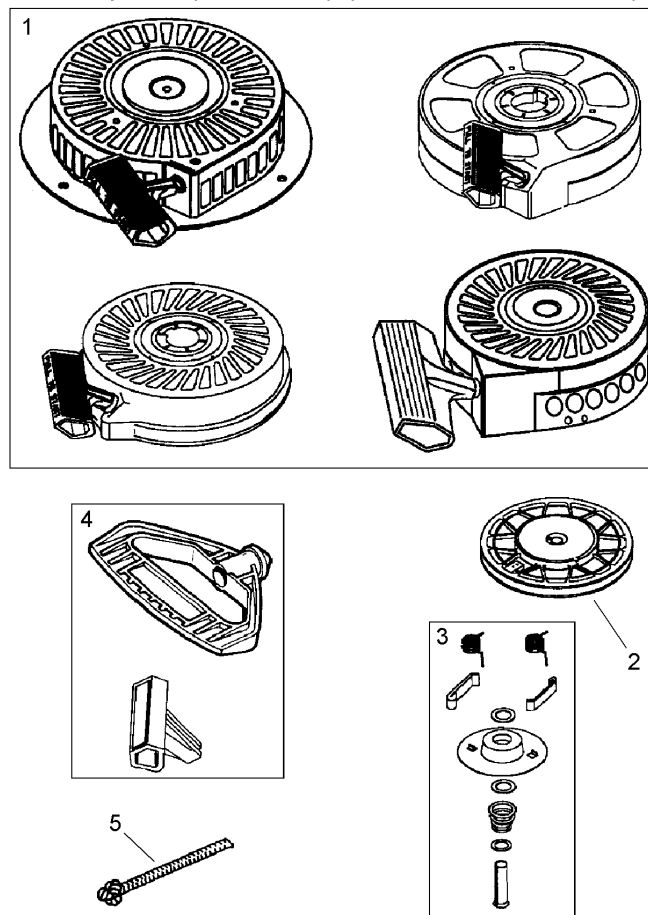
Ref	Part No.	Qty.	Description	Ref	Part No.	Qty.	Description
③150	31672	2	Spring-Valve	③370	36534A	1	Instruction Decal - Caution - Read Owner's Manual
③151	31673	2	Cap-Valve, Spring	③380	640350	1	Carburetor ASM (Includes 184)
③151A	40017	1	Seal-Valve, Intake	③390	590702	1	Starter-Recoil
③166	37813A	1	Shroud-Engine (Green)	③395	37753	1	12-Volt Electric Starter Motor ASM
③⑤169	36783	1	Gasket-Cover, Valve	③400	37613A	1	Gasket Set
③172	36784	1	Cover-Valve	③416	37530	1	Spark Arrestor Kit (Includes 417)
③178	29752	2	Nut And Lock Washer (1/4-28)	③420	730225A	1	Oil-Engine, Sae 30 (4-Cycle)
③182	6201	2	Screw (1/4-28 X 7/8)	①③421	806174A	1	Replacement Engine ASM
③⑤184	26756	1	Gasket-Carburetor To Intake Pipe	①③422	750876	1	Shortblock-Replacement
③185	37466	1	Pipe-Intake	①③999	730277	1	Summer Maintenance Kit (Includes Sae 30 Oil)
③186	32653	1	Link-Governor				
③196	35035A	1	Switch-Restart, Power				
③207	34336A	1	Link-Throttle				
③223	650451	1	Screw (1/4-20 X 1)				
③223A	651074	1	Stud-Pipe, Intake				
③⑤224	36786	1	Gasket-Pipe, Intake				
③238	650932	2	Screw (10-32 X 49/64)				
③⑤239	34338	1	Gasket-Air Cleaner				
③241	36919	1	Collar-Air Cleaner				
③243	650902	1	Screw (10-32 X 7/16)				
③245	36905	1	Filter-Air Cleaner (Also Available In Packaged Part 740083)				
③250	37122	1	Cover-Air Cleaner				
③260	37693A	1	Housing-Blower				
③262	650831	2	Screw (1/4-20 X 1/2)				
③275	37498	1	Muffler				
③277	650988	2	Screw (1/4-20 X 2-9/32)				
③280	37618	1	Shield-Heat				
③285	38000	1	Cup-Starter				
③287	650926	4	Screw (8-32 X 21/64)				
③290	37962	1	Line-Fuel (Low Permeation)				
③292	26460	2	Clamp-Line, Fuel				
③300	37947	1	Fuel Tank ASM (Includes 292 And 301)				
③301	37844	1	Cap-Fuel (Black) (1-1/2 Id) (Also Available In Packaged Part 740041B)				
③305	35647A	1	Tube-Fill, Oil				
③306	37610	1	O-Ring				
③307	35499	1	O-Ring				
③309	650562	1	Screw (10-32 X 1/2)				
③309A	650783	1	Screw (10-24 X 3/4)				
③310	35648	1	Dipstick				
③311A	37611	1	Bracket-Holddown				
③313	34080	1	Spacer				
③322	35013	1	Body-Connector				
③324	33177	1	Terminal				
③325A	35249	1	Clip-Actuator, Brake Switch				
③347	650898A	4	Screw (10-32 X 27/32)				
③359	37876	1	Guard-Flywheel				
③361	651075	1	Nut-Lock				
③370	37695	1	Decal-Primer				



Electric Starter Kit No. 37753
Tecumseh LV195EA-362077D

Ref	Part No.	Qty.	Description				
❸0	37753	1	12-Volt Electric Starter Motor ASM				
❸1	34955	1	Ring-Retaining				
❸2	34950	1	Retainer-Spring				
❸3	34954	1	Spring				
❸4A	37788	1	Gear				
❸5B	34943	1	Drive End Cap ASM				
❸6	33450	2	Nut-Lock				
❸7	34944	1	Armature				
❸8	34945	1	Housing ASM				
❸10A	590500	1	Washer-Thrust				
❸11C	35714	1	Commutator End Cap Ass-Y. (Incl. Brushes)				
❸12	34947	2	Bolt				
❸13	34946	1	Driver-Pinion				
❸14	34951	1	Washer-Cup				
❸15	34952	1	Ring-Retaining				
❸16	34948	1	Washer				
❸17	34953	1	Nut-Drive				
❸18	590608	1	Washer				

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



Recoil Starter Assembly No. 590702 (Optional)
Tecumseh LV195EA-362077D

Ref	Part No.	Qty.	Description				
❸1	590702	1	Starter-Recoil				
❸2	590700	1	Pulley And Rewind Spring ASM				
❸3	590774	1	Repair Kit				
❸4	590701	1	Handle-Starter				
❸5	590535	1	98 Starter Rope (Cut To Length)				

Attachments and Accessories

For 10687 - Insight Lawn Mower

Product Name	Model/Part
Lawn Boy Paint	110-8800
Height-Of-Cut Kit	110-8801
Loose Parts Kit	112-1526
Replacement Bag	89815
Rear Bag Kit	89913
21 Inch Blade	89914
Cruise Control Kit	89919
Air Filter	89945
Spark Plug	89946

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