Form Number 3352-947 Rev B

Insight™ Lawn Mower

Model No. 10686 - 250000001 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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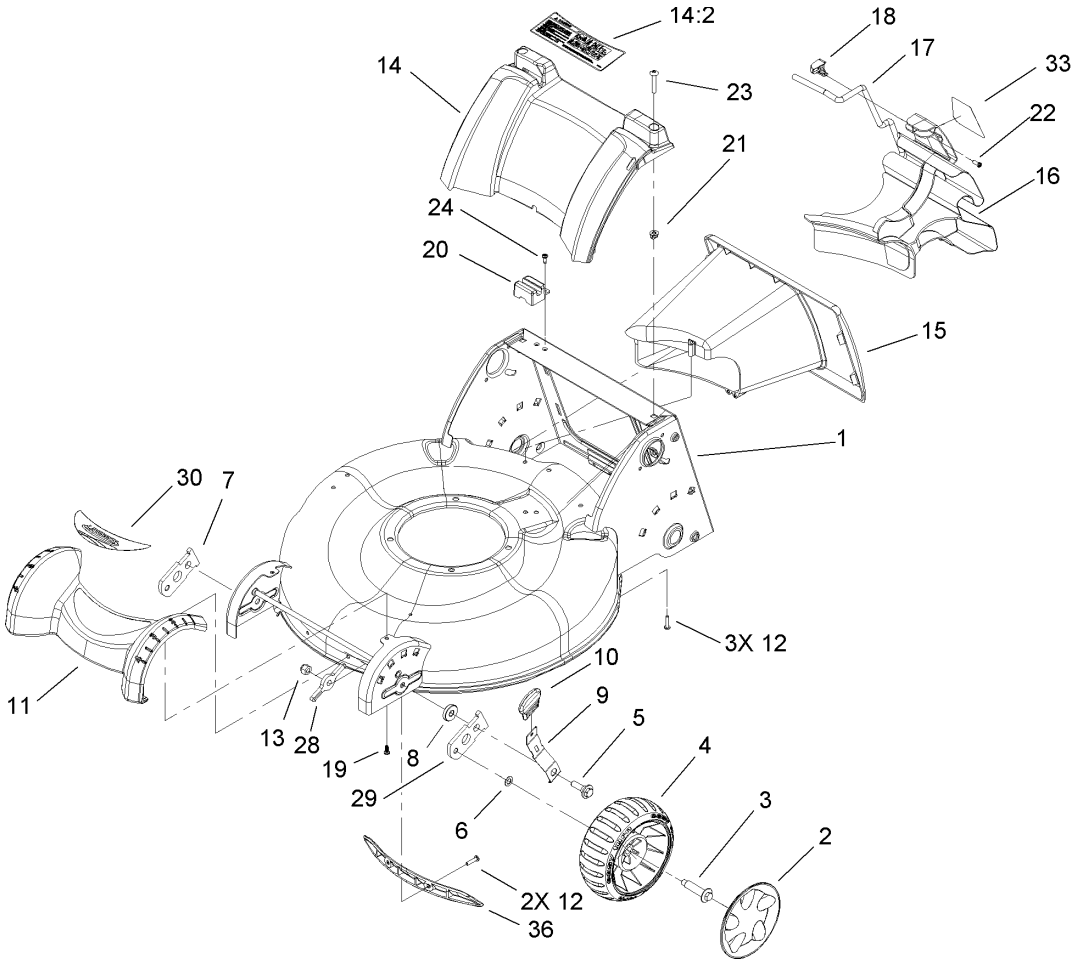
Part Description Abbreviations

Part descriptions in this catalog may include the following abbreviations.

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

Footnotes

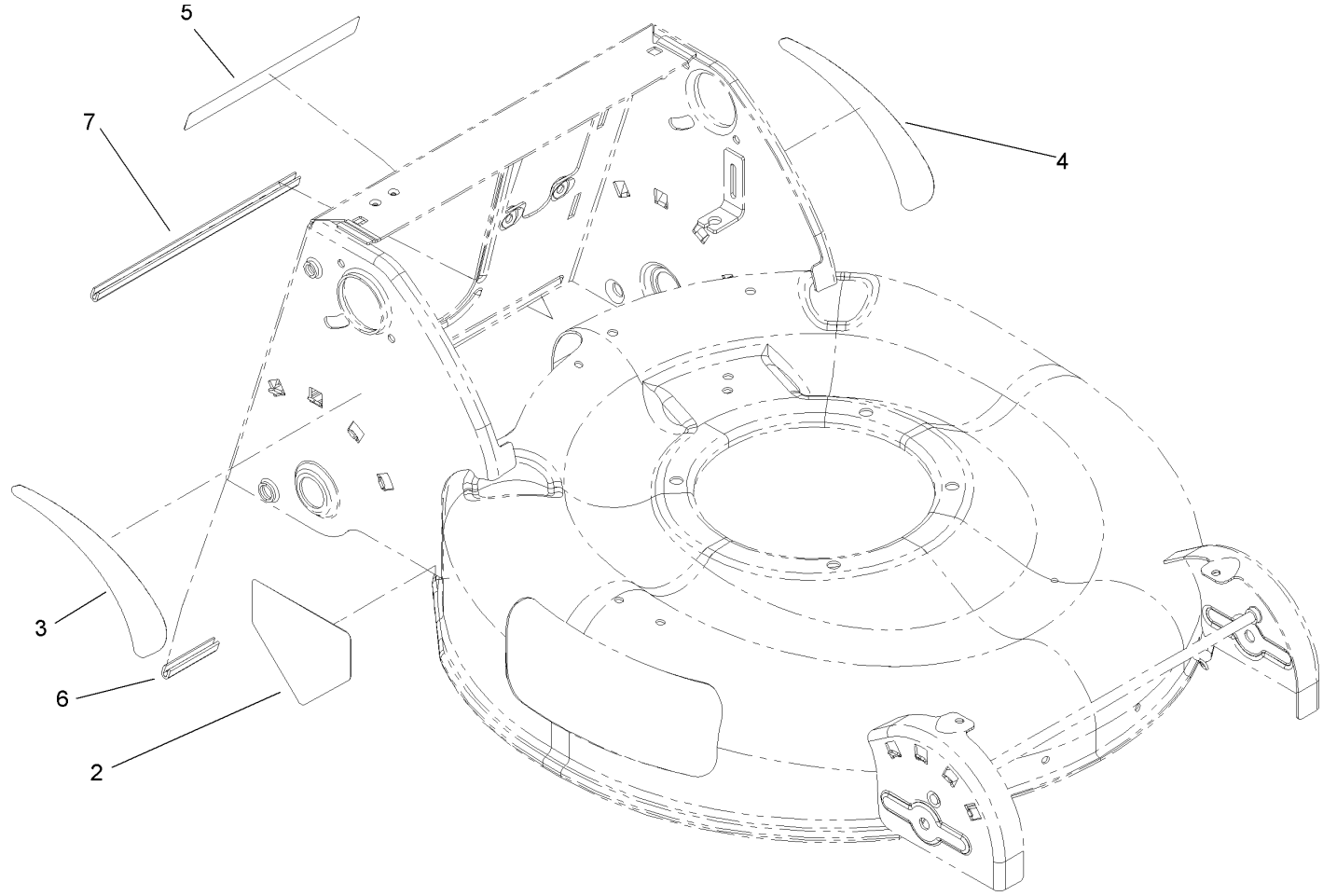
❶ Not illustrated
❷ Not serviced separately
❸ Obtain from your local Tecumseh dealer
❹ Optional Equipment



Front End and Tunnel Assembly

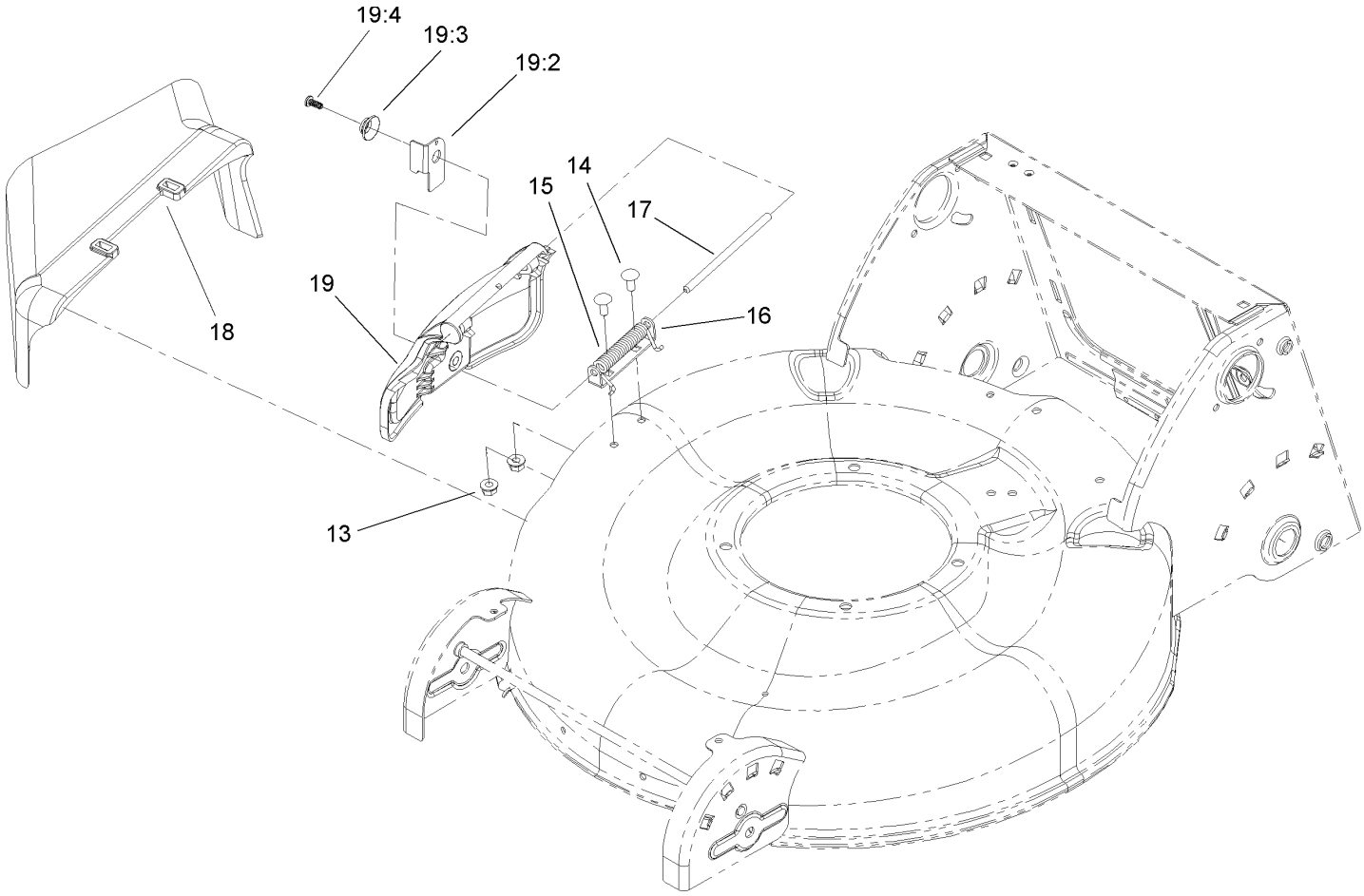
Ref	Part No.	Qty.	Description
1	108-9346	1	Housing ASM
2	107-3886	2	Cover-Wheel, 7In
3	614650	2	Bolt-Shoulder
4	107-3891	2	7In Wheel ASM
5	614672	2	Bolt-Shoulder
6	40-1940	2	Washer
7	107-3877	1	Arm-Pivot, RH
8	92-4890	2	Washer
9	107-3878	2	Arm-Spring
10	107-1904	2	Knob-Lever, HOC
11	107-3926	1	Cover-Front
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	107-3881	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	108-0991	1	Module-Switch
21	94-1610	2	Nut-Clip
22	32144-111	1	Screw-PPH
23	108-0965	2	Screw-PTH

Ref	Part No.	Qty.	Description
24	105-6849	2	Screw-Thread Forming
28	108-1048	2	Washer-Support, Front
29	108-1044	1	Arm-Pivot, LH
30	108-7453	1	Decal
33	108-7461	1	Decal
36	108-7502	1	Insert-Housing
❶39	110-1751	1	Mulch Plug ASM



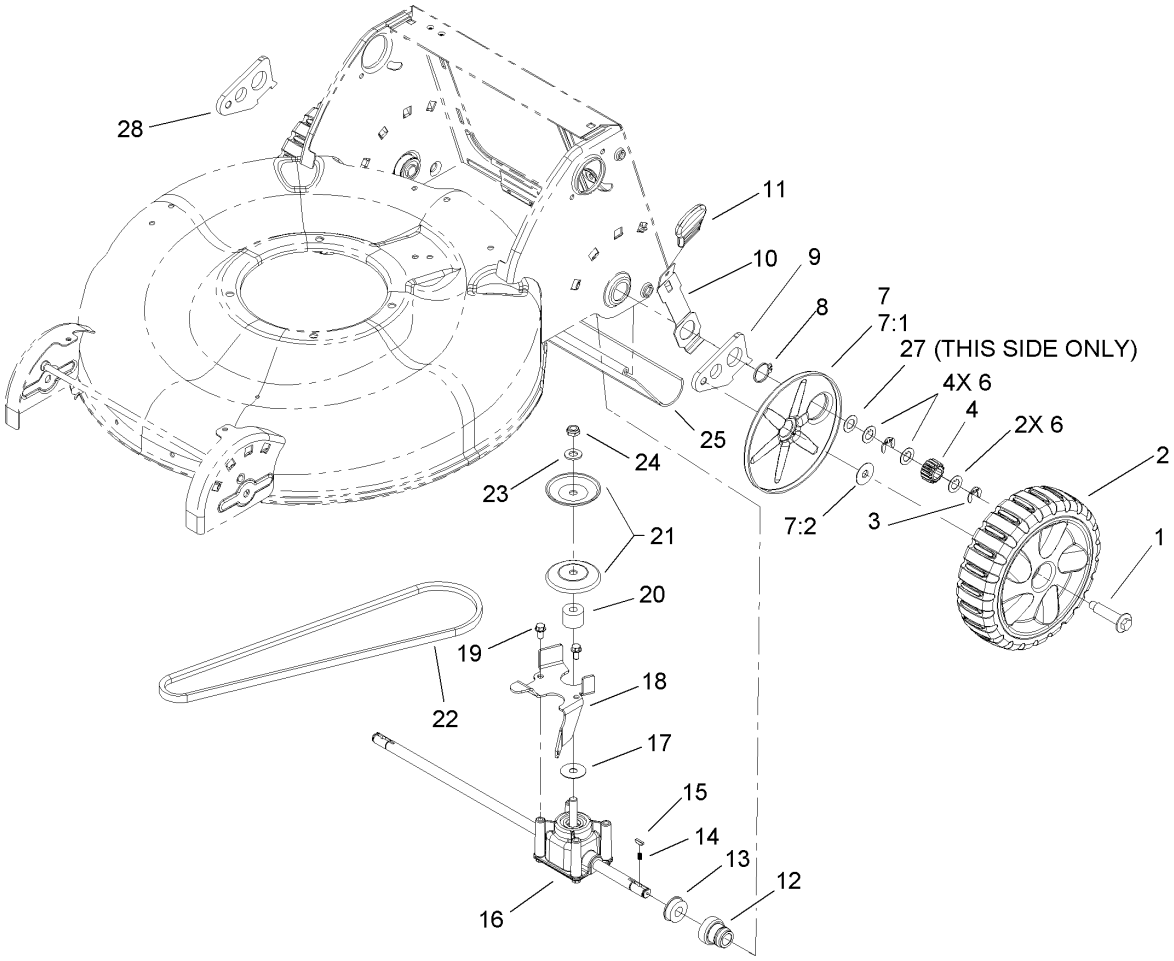
Housing Assembly No. 108-9346

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
6	108-7504	1	Strip-Edge
7	108-9380	1	Strip-Edge



Side Discharge Assembly

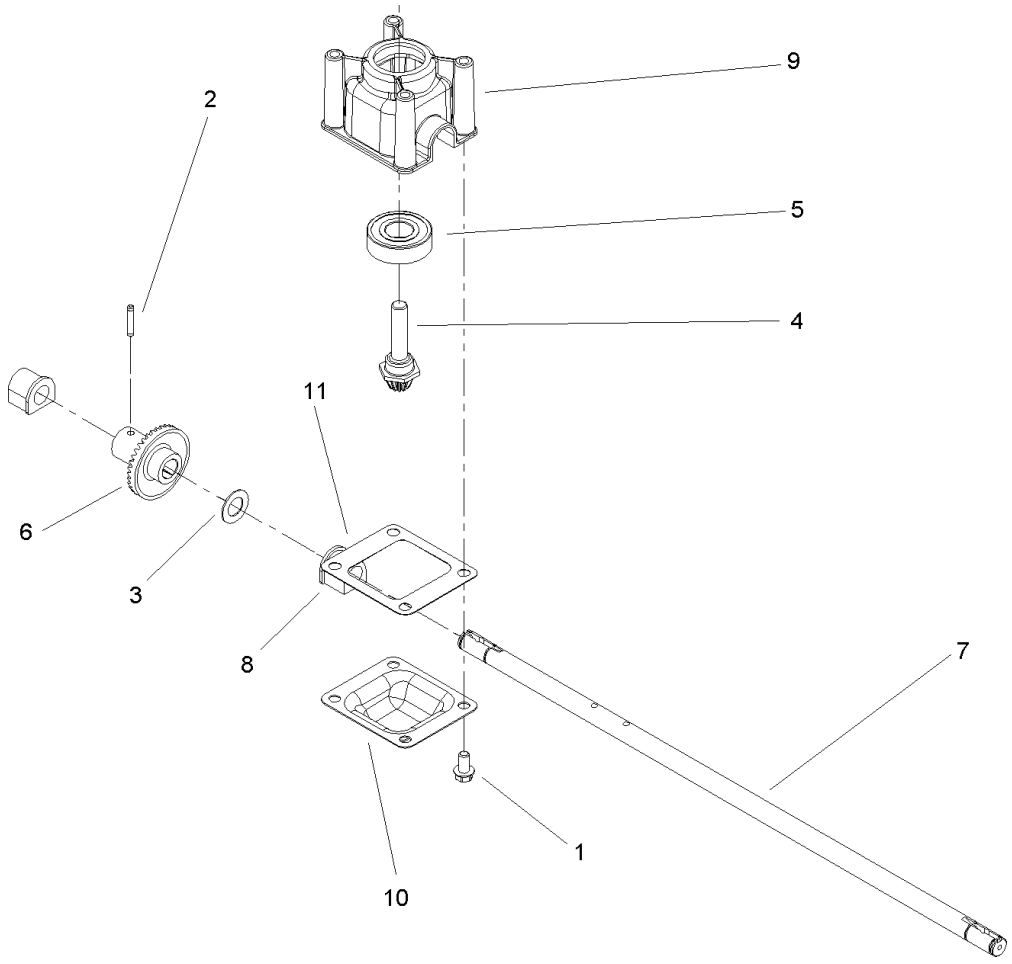
Ref	Part No.	Qty.	Description
13	32128-32	2	Nut-HHF
14	3229-11	2	Screw-CARR
15	99-5293	1	Spring-Torsion
16	99-5292	1	Bracket-Cover
17	99-5291	1	Rod-Cover
18	105-3028	1	Chute-Discharge, Side
19	106-8376	1	Discharge Door ASM
19:2	107-0795	1	Latch-Door
19:3	107-7456	1	Cap-Door
19:4	107-7461	1	Screw-Plastite



Rear Axle and Transmission Assembly

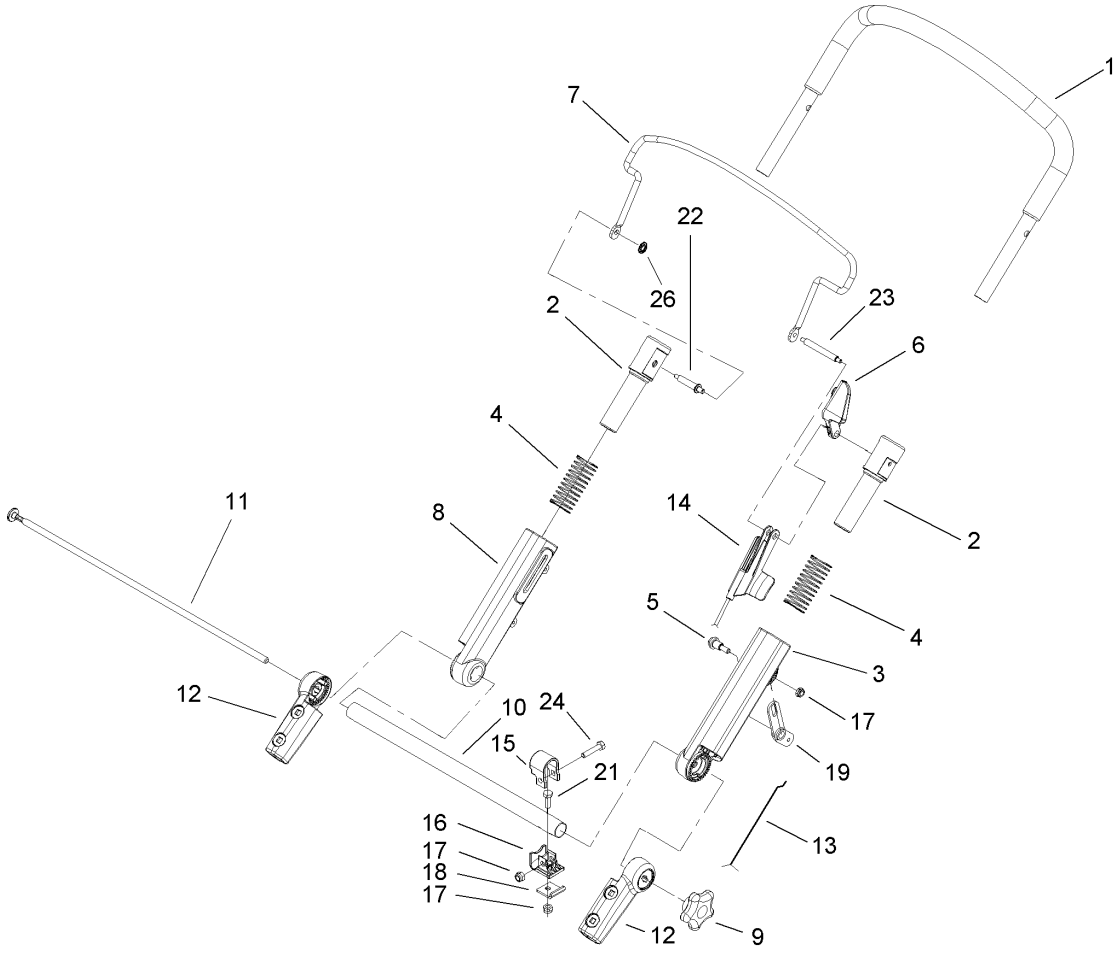
Ref	Part No.	Qty.	Description
1	614650	2	Bolt-Shoulder
2	107-3906	2	Rear Wheel ASM
3	65-2720	4	Klipring-Locking
4	105-3040	2	Gear-Pinion, 15T
6	105-6840	6	Washer-Thrust
❷7		2	Wheel Cover ASM
7:1	107-1919	1	Cover-Wheel
7:2	614426	1	Washer-Stepped
8	32151-36	2	Ring-Retaining
9	108-9344	1	Arm-Rear Pivot, 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	105-6814	1	Washer-Shield
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



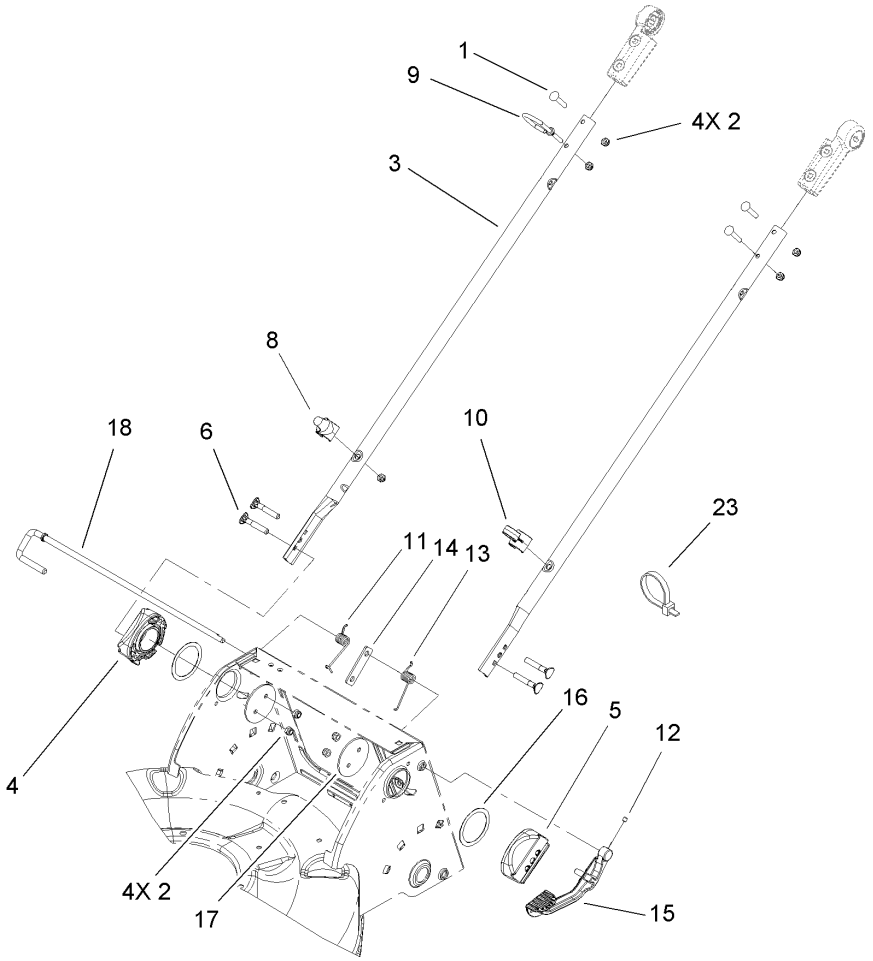
Transmission Assembly No. 107-3860

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



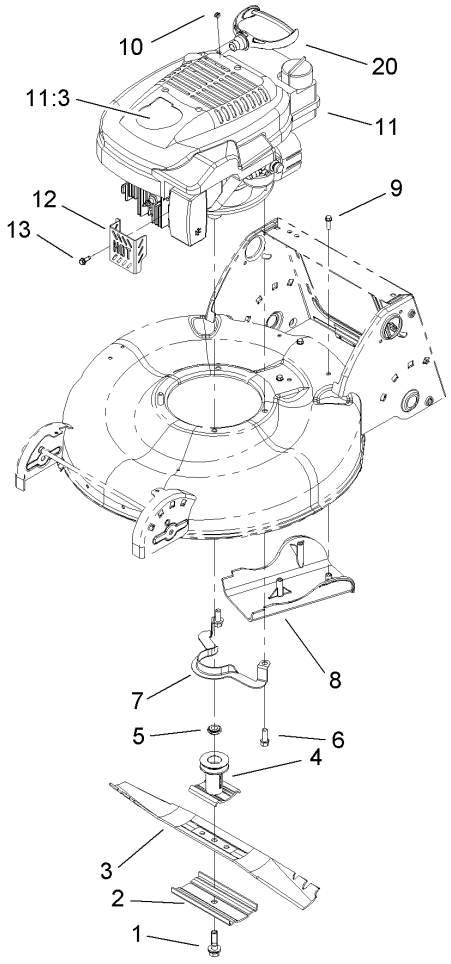
Upper Handle Assembly

Ref	Part No.	Qty.	Description
1	108-0974	1	Upper Handle ASM
2	107-3866	2	Sleeve-Handle
3	107-3864	1	Slide-Top, LH
4	107-3869	2	Spring-Compression
5	104-0858	1	Bolt-Shoulder
6	107-3943	1	Stop-Bail
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
14	108-0963	1	Cable-Brake
15	108-1045	1	Support-Cable
16	108-1046	1	Support-Guide, Cable
17	3296-73	2	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	108-1008	1	Pin-Bail, LH
24	108-0988	1	Screw-CARR
26	108-9378	1	Retainer-Push On



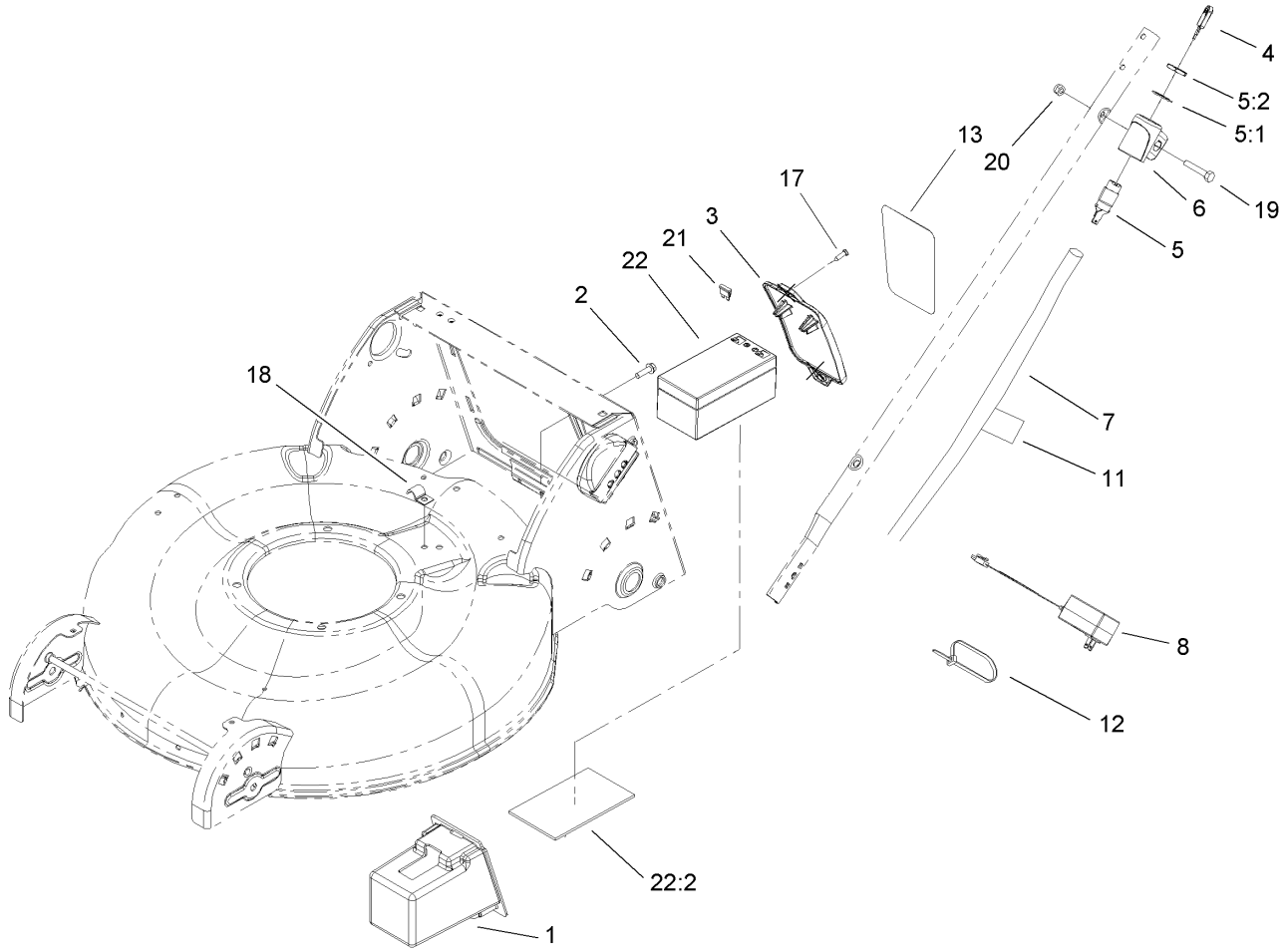
Lower Handle Assembly

Ref	Part No.	Qty.	Description
1	108-0988	3	Screw-CARR
2	3296-73	9	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	108-0989	1	Screw-Set
13	108-0953	1	Spring-Torsion, RH
14	107-3946	1	Plate-Lock, Handle
15	108-0985-03	1	Lever-Release
16	107-3947	2	Washer-Nylon
17	107-3944-03	2	Plate
18	107-3892	1	Rod-Release
23	614249	1	Strap-Tie



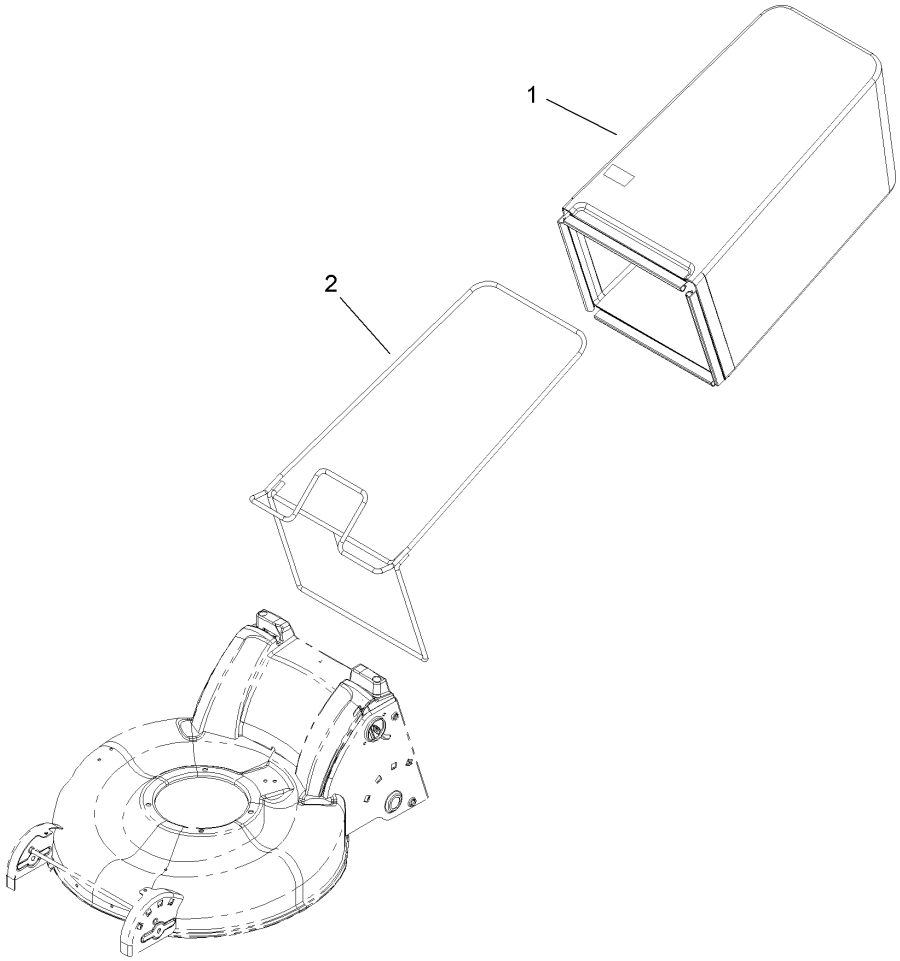
Blade and Engine Assembly

Ref	Part No.	Qty.	Description
1	105-8579	1	Bolt-Blade
2	108-3766-03	1	Support-Blade
3	108-0954-03	1	Blade-21 In
4	106-3987	1	Blade Driver ASM
5	106-3999	1	Spacer-Driver
6	92-1624	3	Screw
7	105-3030-03	1	Guide-Belt
8	107-3909	1	Cover-Belt
9	46-8091	3	Screw-HWH
10	92-1701	1	Stop-Rope
❷❸11		1	Engine-Tecumseh, Lv195Ea-362045C
11:3	108-7452	1	Decal-Recoil
12	106-8346	1	Guard-Muffler
13	32144-85	1	Screw-HWH
20	106-8345	1	Handle-Recoil



Electric Start Assembly

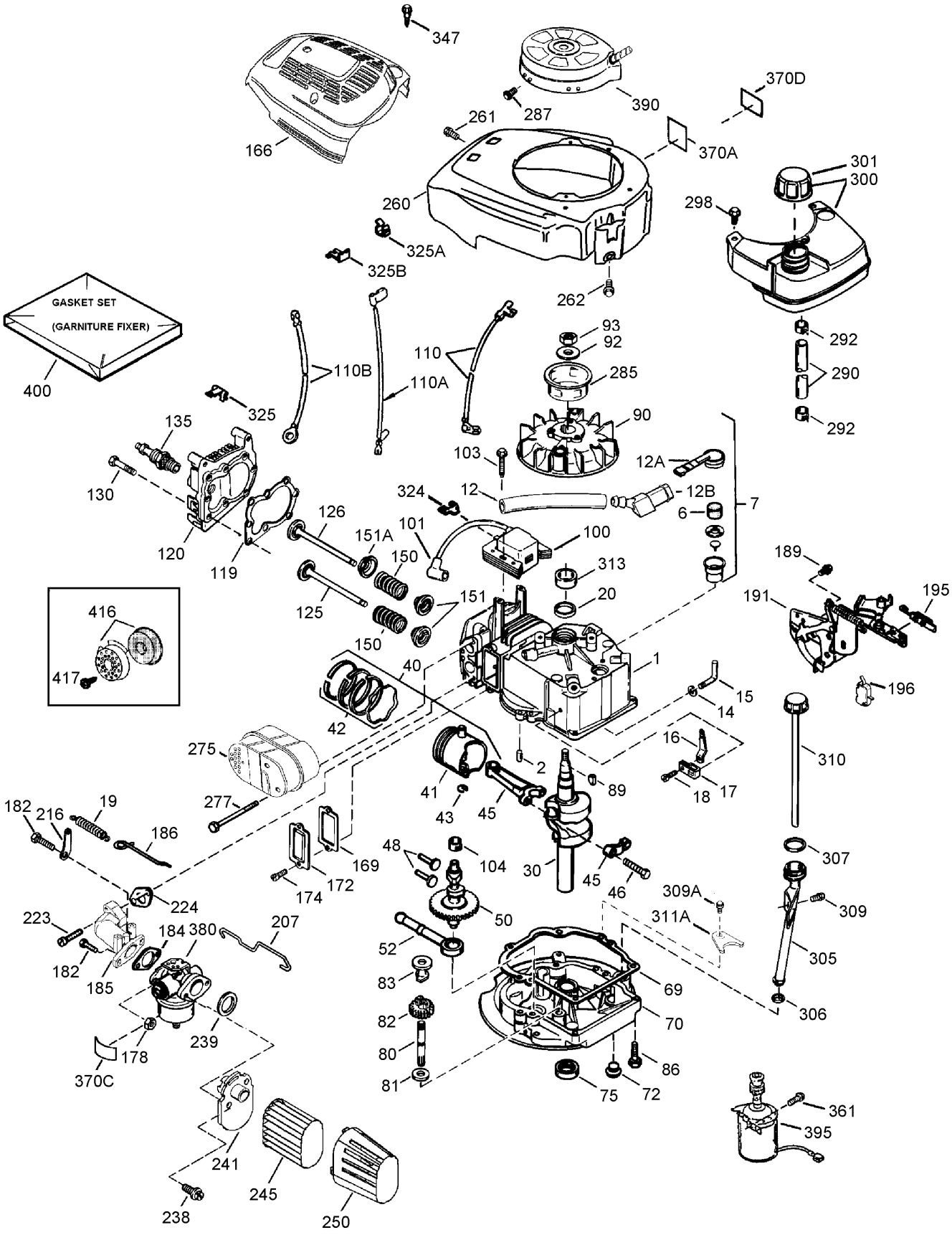
Ref	Part No.	Qty.	Description
1	107-3932	1	Box-Battery
2	46-8091	4	Screw-HWH
3	108-0981	1	Cover-Battery
4	700918	1	Key
5	46-5780	1	Switch-Starter
5:1	3254-5	1	Washer-Tooth
5:2	218-461	1	Nut-HH
6	104-8692	1	Mount-Switch
7	108-0983	1	Harness-Wire
8	104-7401	1	Charger-12 Volt
11	104-7953	1	Decal-Harness
12	614249	2	Strap-Tie
13	108-0992	1	Decal-Instruction, Battery
17	32144-111	1	Screw-PPH
18	2412-90	1	Clip-Half
19	321-51	1	Screw-HH
20	3296-73	1	Nut-Lock, NI
21	99-6124	2	Fuse-40 Amp
22	108-9358	1	Battery
22:2	108-0987	1	Foam-Battery



Rear Bag Assembly

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

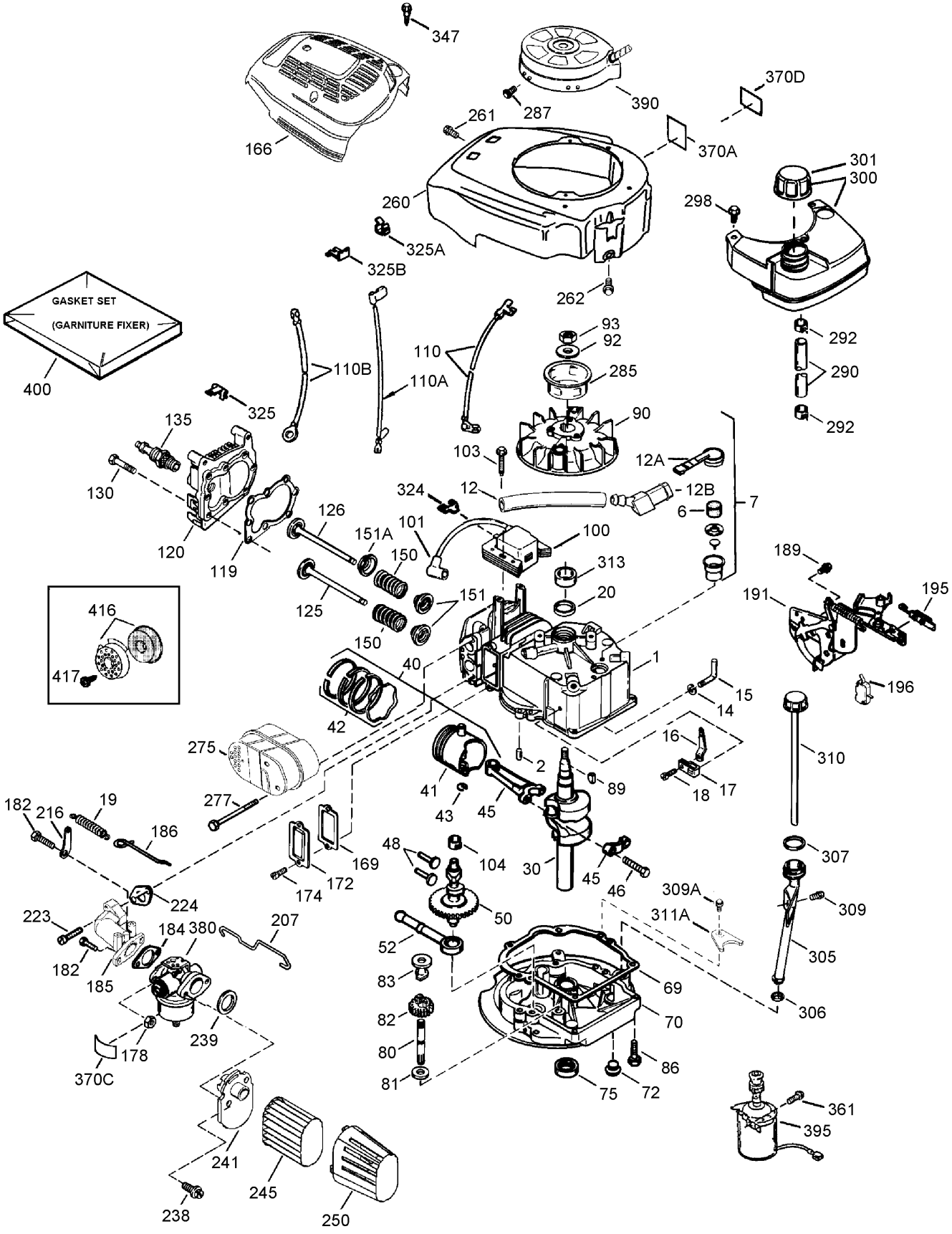
Engine Assembly
Tecumseh LV195EA-362045C



Engine Assembly
Tecumseh LV195EA-362045C

Ref	Part No.	Qty.	Description
❸1	37465	1	Cylinder
❸2	26727	2	Pin-Dowel
❸6	33734	1	Element-Breather
❸7	36557	1	Breather ASM
❸12	37944	1	Tube-Breather
❸12A	36558	1	Breather Cover And Tube ASM
❸12B	36694	1	Elbow-Tube, Breather
❸14	28277	1	Washer
❸15	30589	1	Rod-Governor
❸16	34839A	1	Lever-Governor
❸17	31335	1	Clamp-Lever, Governor
❸18	651018	1	Screw
❸19	36281	1	Spring-Extension
❸20	32600	1	Seal-Oil
❸30	37692	1	Crankshaft
❸40	40027	1	Piston Pin And Ring Set (STD.)
❸41	40042	1	Piston And Pin ASM (STD.)
❸42	40006	1	Ring Set (STD.)
❸43	20381	2	Ring-Retaining
❸45	36777	1	Connecting Rod ASM
❸46	32610A	2	Bolt-Rod, Connecting
❸48	27241	2	Lifter-Valve
❸50	37460	1	Camshaft
❸52	29914	1	Oil Pump ASM
❸69	37609	1	Gasket-Flange, Mounting
❸70	37608	1	Flange-Mounting
❸72	37614	1	Plug-Drain, Oil
❸75	27897	1	Seal-Oil
❸80	30574A	1	Shaft-Governor
❸81	30590A	1	Washer
❸82	30591	1	Governor Gear ASM
❸83	30588A	1	Spool-Governor
❸86	650488	6	Screw (1/4–20 X 1–1/4In)
❸89	611004	1	Key-Flywheel
❸90	37787	1	Flywheel
❸92	650815	1	Washer-Belleville
❸93	650816	1	Nut-Flywheel
❸100	34443C	1	Ignition-Solid State
❸101	610118	1	Cover-Spark Plug
❸103	651007	2	Screw
❸104	37480	1	Bushing-Cam
❸110	36953	1	Wire ASM
❸110A	36954	1	Wire ASM
❸110B	37047	1	Wire-Ground
❸119	37796	1	Gasket-Head, Cylinder
❸120	37714	1	Head-Cylinder
❸125	36780	1	Valve-Exhaust (1/32In Os)
❸125	37288	1	Valve-Exhaust (STD.)
❸126	37289	1	Valve-Intake (STD.)
❸130	6021A	8	Screw (5/16–18 X 1–7/16In)
❸135	35395	1	Spark Plug-Resistor
❸150	31672	2	Spring-Valve
❸151	31673	2	Cap-Spring, Valve
❸151A	40017	1	Seal-Valve, Intake
❸166	37813	1	Shroud-Engine
❸169	36783	1	Gasket-Cover, Valve
❸172	36784	1	Cover-Valve
❸174	30200	2	Screw (10–24 X 9/16In)
❸178	29752	2	Nut And Lock Washer ASM
❸182	6201	2	Screw (1/4–28 X 7/8In)
❸184	26756	1	Gasket-Carburetor To Intake Pipe
❸185	37466	1	Pipe-Intake
❸186	32653	1	Link-Governor
❸189	650839	2	Screw (1/4–20 X 3/8In)
❸191	36559A	1	Bracket-Brake
❸195	610973	1	Terminal
❸196	35035	1	Switch-Restart, Power
❸207	34336A	1	Link-Throttle
❸216	33086	1	Lever-Adjusting, R.P.M.
❸223	650451	2	Screw (1/4–20 X 1In)
❸224	36786	1	Gasket-Pipe, Intake
❸238	650932	2	Screw (10–32 X 49/64In)
❸239	34338	1	Gasket-Cleaner, Air
❸241	36919	1	Collar-Cleaner, Air
❸245	36905	1	Filter-Cleaner, Air
❸250	37122	1	Cover-Cleaner, Air
❸260	37693A	1	Housing-Blower
❸261	30200	2	Screw (10–24 X 9/16In)
❸262	650831	2	Screw (1/4–20 X 1/2In)
❸275	37498	1	Muffler
❸277	650988	2	Screw (1/4–20 X 2–9/32In)
❸285	35000A	1	Cup-Starter
❸287	650926	2	Screw (8–32 X 21/64In)
❸290	29774	1	Line-Fuel
❸292	26460	2	Clamp-Line, Fuel
❸298	28763	2	Screw (10–32 C 35/64In)
❸300	37947	1	Fuel Tank ASM
❸301	37844	1	Fuel Cap ASM
❸305	35647	1	Tube-Fill, Oil
❸306	37610	1	O–Ring
❸307	35499	1	O–Ring
❸309	650562	1	Screw (10–32 X 1/2In)
❸309A	650783	1	Screw (10–24 X 3/4In)
❸310	35648	1	Dipstick
❸311A	37611	1	Bracket-Down, Hold
❸313	34080	1	Spacer

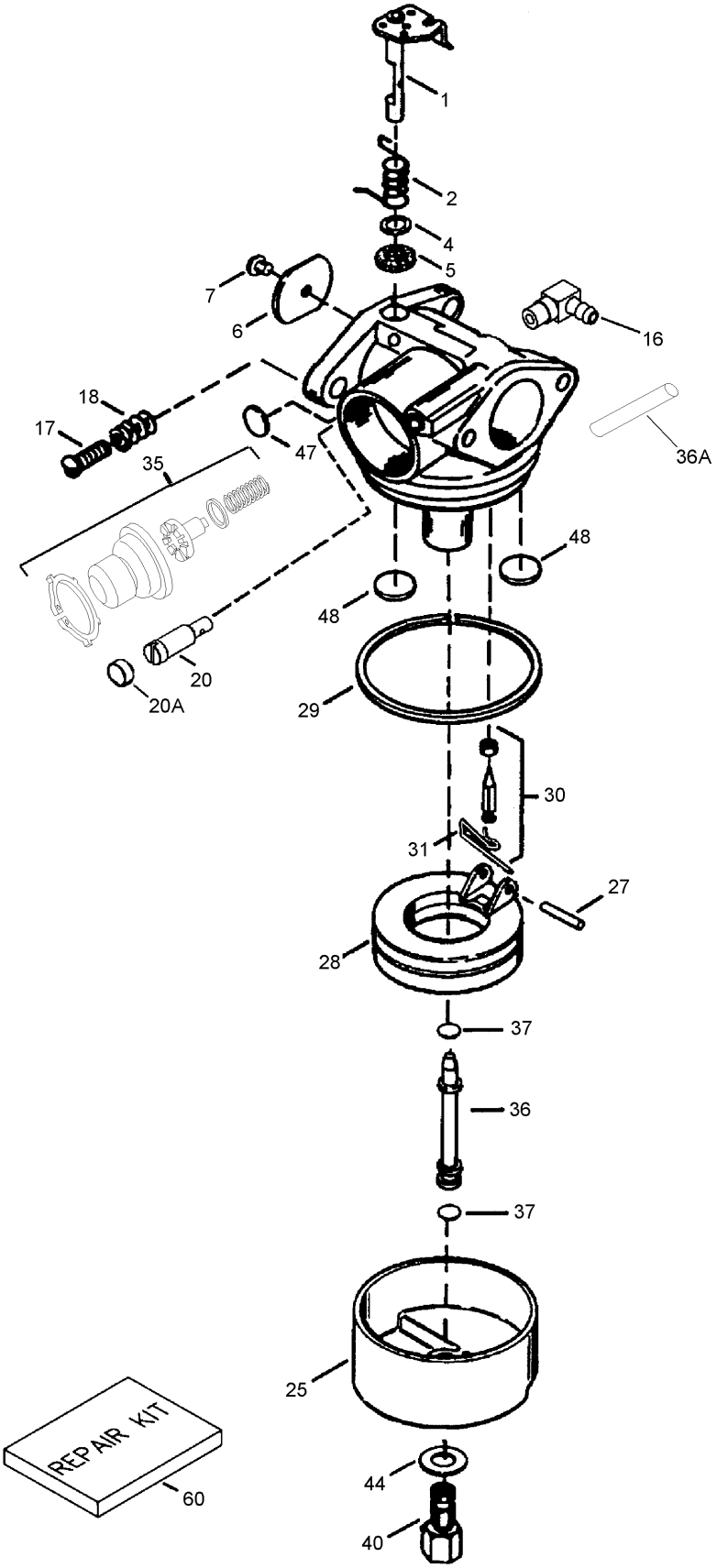
Engine Assembly (continued)
Tecumseh LV195EA-362045C



Engine Assembly (continued)
Tecumseh LV195EA-362045C

Ref	Part No.	Qty.	Description
❸324	33177	1	Terminal
❸325	29443	1	Clip-Wire
❸325A	35249	1	Wire Clip
❸325B	37152	1	Wire Clip
❸347	650898A	4	Screw (10–32 X 27/32In)
❸361	650831	2	Screw (1/4–20 X 1/2In)
❸370A	36261	2	Decal-Lubrication
❸370C	37695	1	Decal-Primer
❸370D	35977	1	Decal-Warning
❸380	640350	1	Carburetor ASM
❸390	590739	1	Starter-Rewind
❸395	37753	1	Starter-Electric, 12 Volt
❸400	37613A	1	Gasket Set
❸416	37530	1	Spark Arrestor Kit (Optional)
❸417	650760	1	Screw (8-32 X 3/8In)

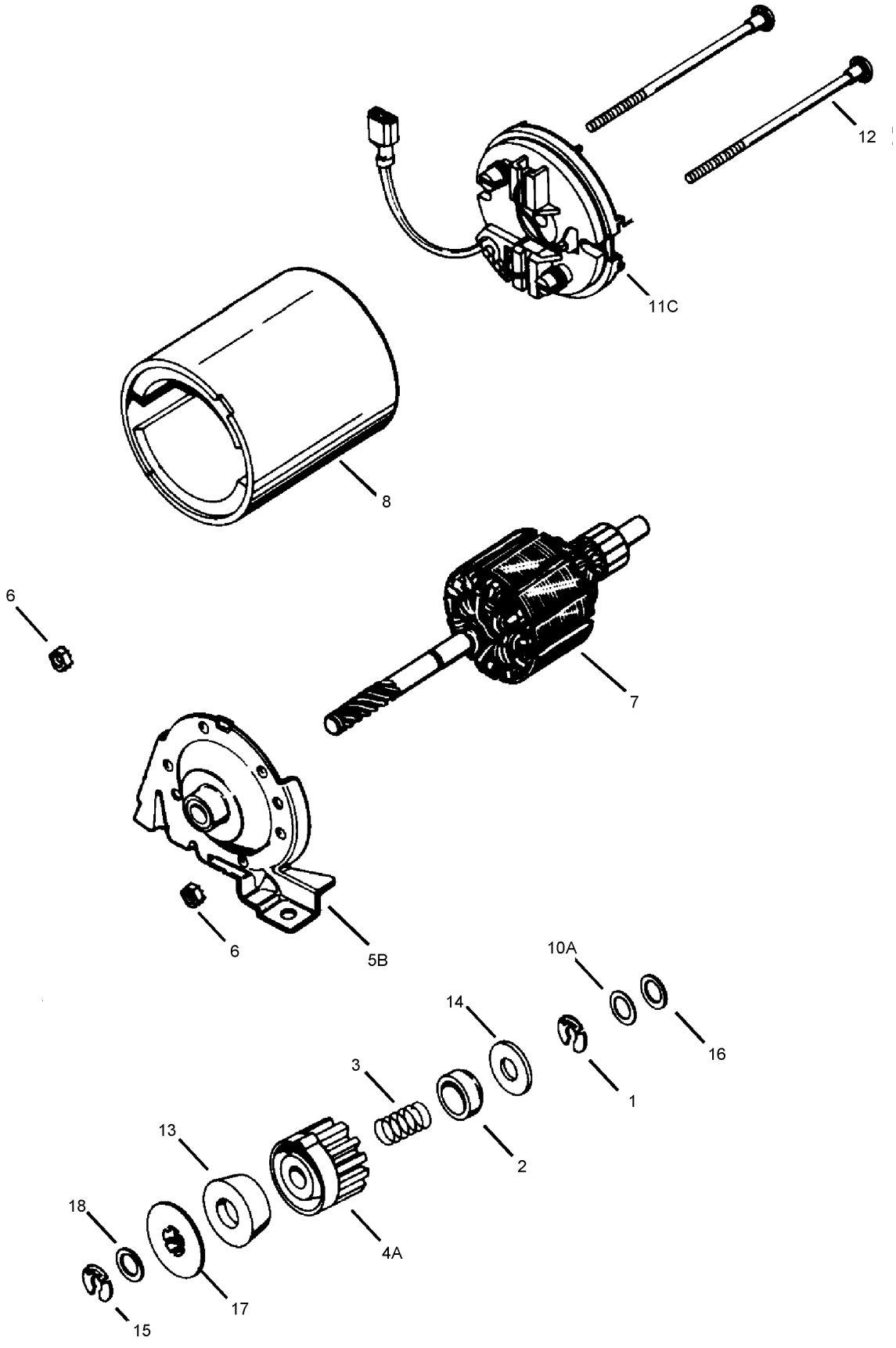
Carburetor Assembly No. 640350
Tecumseh LV195EA-362045C



Carburetor Assembly No. 640350
Tecumseh LV195EA-362045C

Ref	Part No.	Qty.	Description
❸0	640350	1	Carburetor ASM (Includes 184 Of Engine Assembly)
❸1	631615	1	Throttle Shaft And Lever ASM
❸2	631767	1	Spring-Return, Throttle
❸4	631184	1	Washer-Seal, Dust
❸5	631183	1	Seal-Dust, Throttle
❸6	640070	1	Shutter-Throttle
❸7	650506	1	Screw-Shutter
❸16	631807	1	Fitting-Fuel
❸17	651025	1	Screw-Throttle Crack / Idle Speed
❸18	630766	1	Spring-Tension
❸20	640016	1	Screw-Restrictor, Idle
❸20A	640200	1	Cap-Screw, Idle Restrictor
❸25	631867	1	Bowl-Float
❸27	631024	1	Shaft-Float
❸28	632802	1	Float
❸29	631028	1	O-Ring, Float Bowl
❸30	631021A	1	Inlet Needle, Seat, And Clip ASM (Includes 31)
❸31	631022	1	Clip-Spring
❸35	640351	1	Primer Bulb / Valve Repair Kit
❸36	640080	1	Tube-Nozzle, Main
❸36A	632766	1	Tube-Carburetor
❸37	632547	2	O-Ring (Main Nozzle Tube)
❸40	640030	1	Nut-Bowl, High Speed
❸44	27110A	1	Washer-Nut, Bowl
❸47	630748	1	Plug-Welch, Idle Mixture Well
❸48	631027	2	Plug-Welch, Atmospheric Vent
❸60	632760B	1	Repair Kit

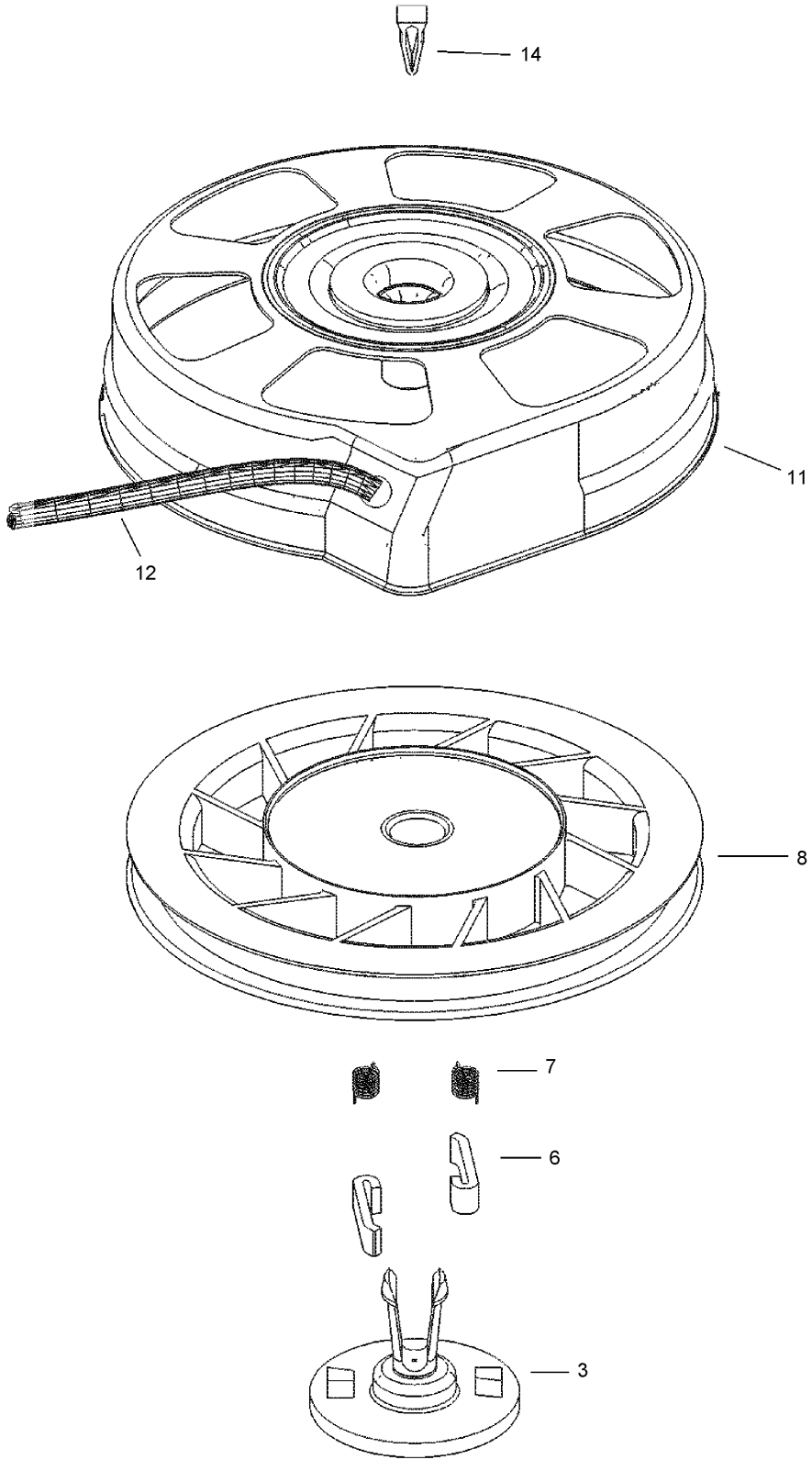
Electric Starter Assembly No. 37753
Tecumseh LV195EA-362045C



Electric Starter Assembly No. 37753
Tecumseh LV195EA-362045C

Ref	Part No.	Qty.	Description
❸0	37753	1	Starter-Electric, 12 Volt
❸1	34955	1	Ring-Retaining
❸2	34950	1	Spring-Retainer
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	Thrust Washer
❸11C	35714	1	Commutator End Cap ASM (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

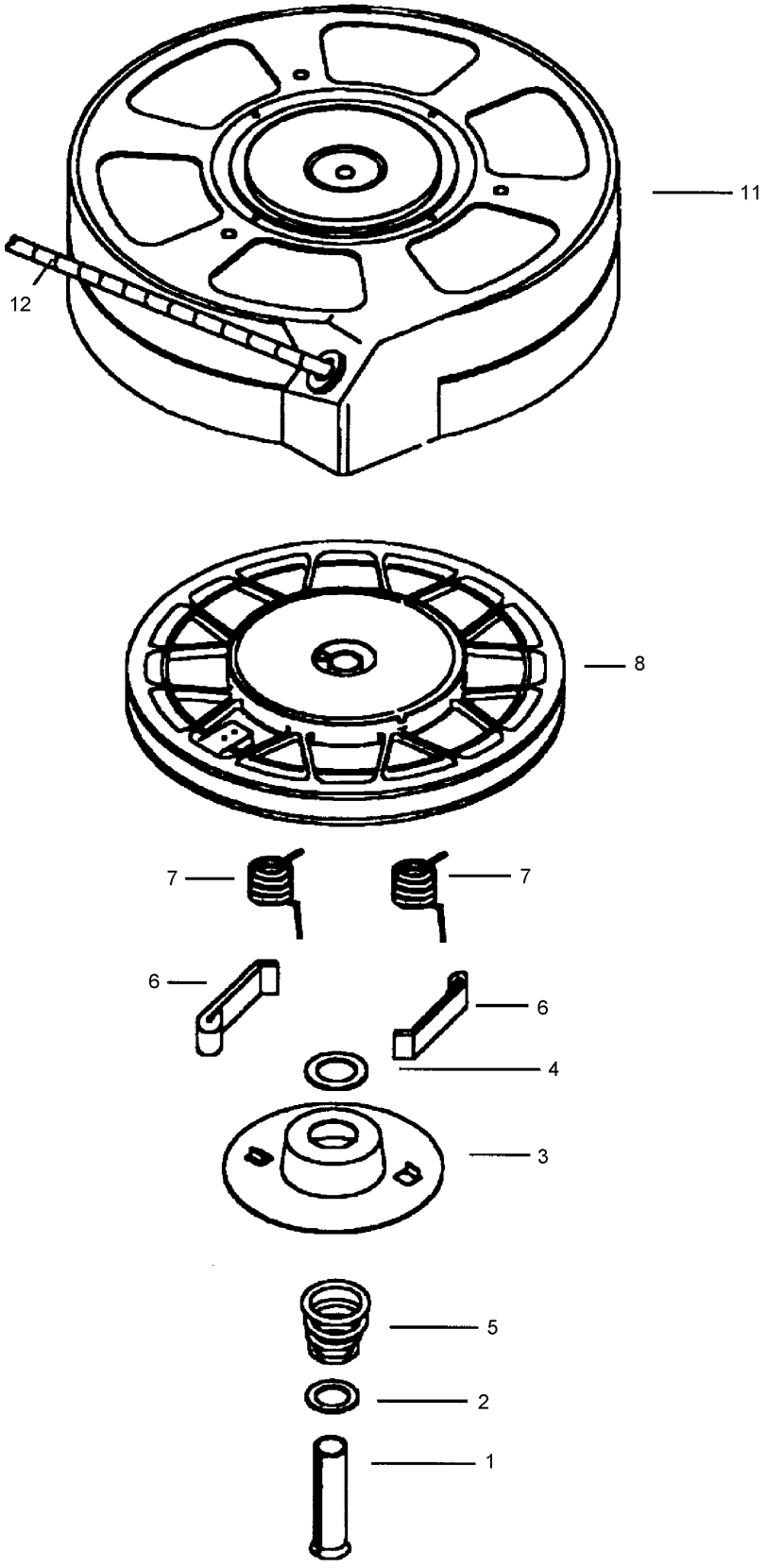
Rewind Starter Assembly No. 590739
Tecumseh LV195EA-362045C



Rewind Starter Assembly No. 590739
Tecumseh LV195EA-362045C

Ref	Part No.	Qty.	Description
❸0	590739	1	Starter-Rewind
❸3	590740	1	Retainer
❸6	590616	2	Dog-Starter
❸7	590617	2	Spring-Dog
❸8	590618A	1	Pulley And Rewind Spring ASM
❸11	590638A	1	Starter Housing ASM
❸12	590535	1	Rope-Starter (98In X 9/64In Diameter)
❸14	590760	1	Clip-Spring

Recoil Starter Assembly No. 590702 (Optional)
Tecumseh LV195EA-362045C



Recoil Starter Assembly No. 590702 (Optional)
Tecumseh LV195EA-362045C

Ref	Part No.	Qty.	Description
❸❹0	590702	0	Starter-Recoil
❸1	590599A	1	Spring Pin ASM
❸2	590600	1	Washer
❸3	590696	1	Retainer
❸4	590601	1	Washer
❸5	590697	1	Spring-Brake
❸6	590698	2	Dog-Starter
❸7	590699	2	Spring-Dog
❸8	590700	1	Pulley And Rewind Spring ASM
❸11	590703A	1	Starter Housing ASM
❸12	590535	1	Rope-Starter (98In X 9/64In Diameter)

Attachments and Accessories

For 10686 - Insight Lawn Mower

Product Name	Model/Part
Loose Parts Kit	108-9354
Replacement Bag	89815
Rear Bag Kit	89913
21 In Blade	89914
Cruise Control Kit	89919
Air Filter	89945
Spark Plug	89946

NOTES

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