Form No. 3325–749

Wheel Horse® 12–32XL

Lawn Tractor

Model No. 71199–210000001 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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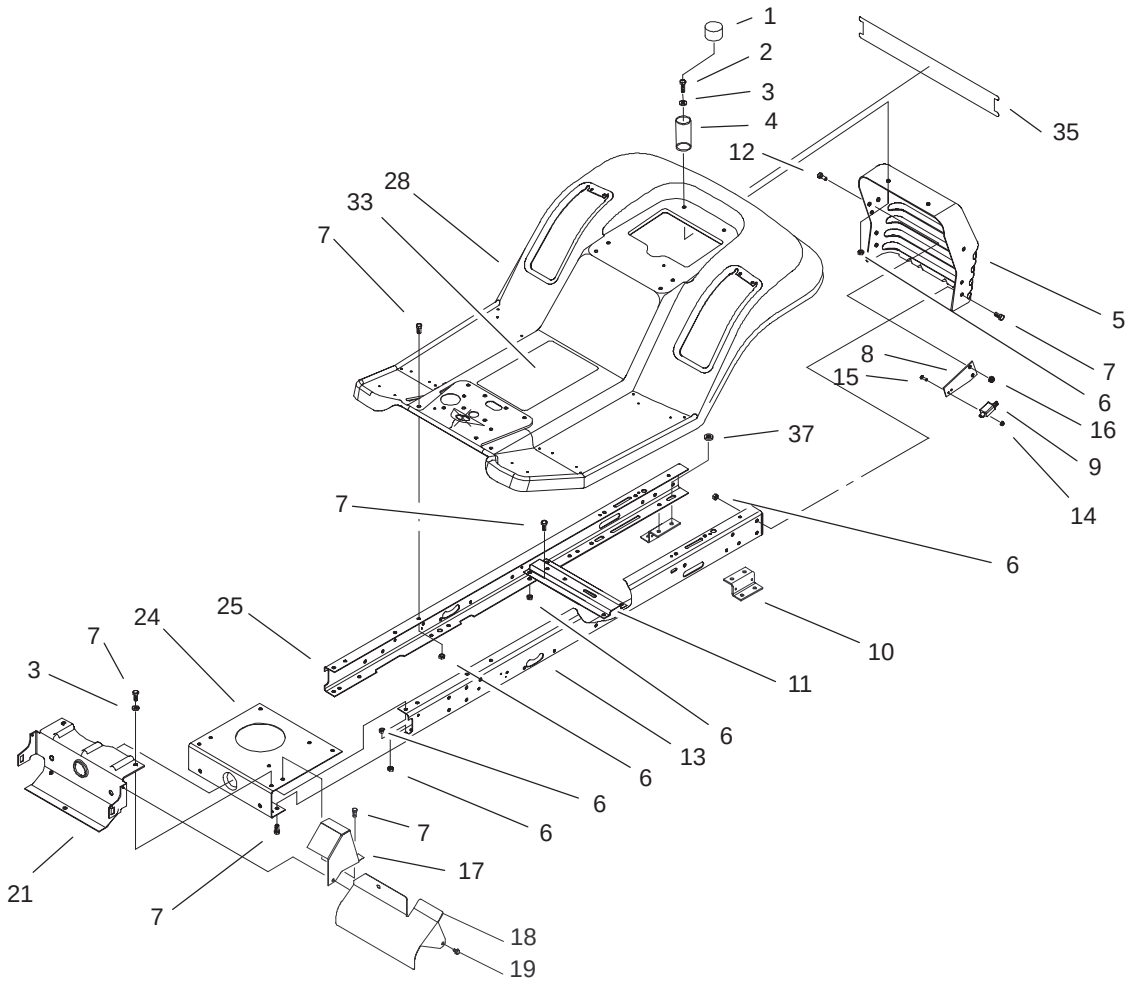
Accessories

Description	Model / Part No.
Easy Empty Bagging Kit	Model 70095 or 79096
Twin Bag Bagger Kit	Model 79085 or 79086
Recycler Kit	Model 59167
Hi–Sail Bagging Blade (Std. on this Model)	Part No. 33–4750
Wet Grass Bagging Kit	Part No. 38–5730
Tire Chains	Part No. 47–7220
Headlight Kit	Model 79180
42” Snowblade Kit	Model 79150
Wheel Weight Kit	Model 59159
Exhaust Deflector Kit	Part No. 94–6872

Part Description Abbreviations

Part descriptions in this catalog may include the following abbreviations.

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

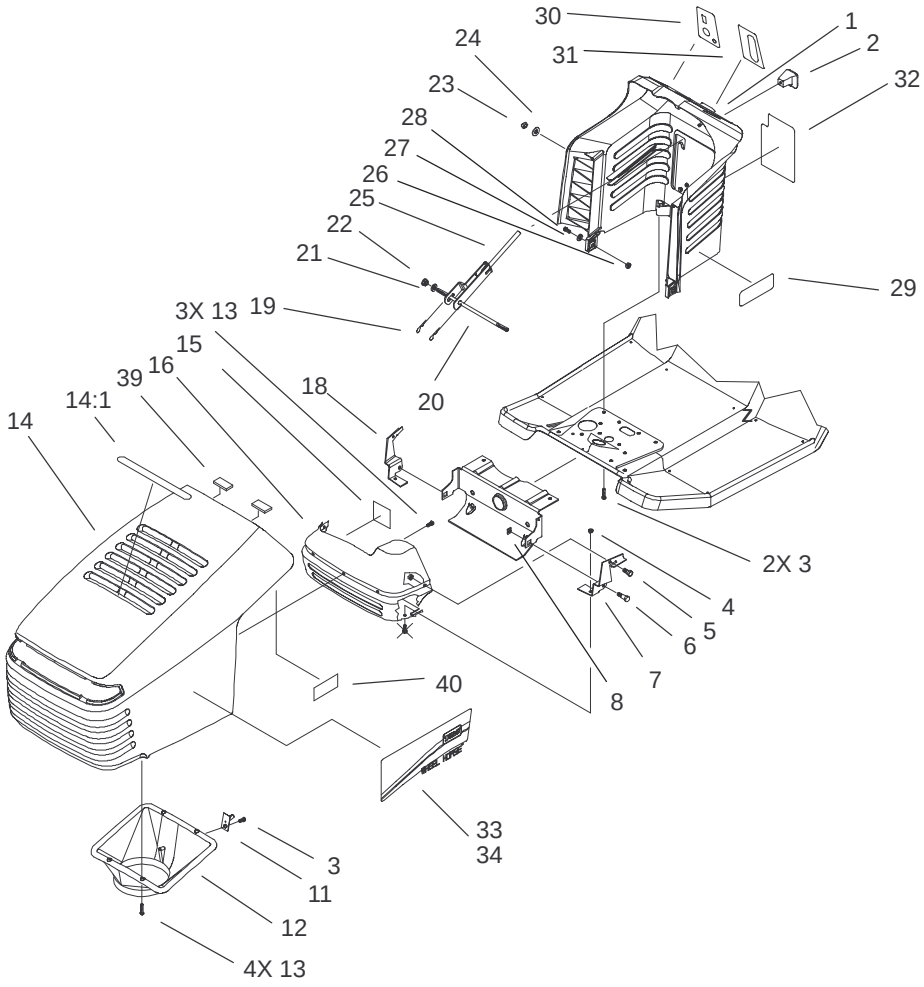


Sheet No.:2

Frame & Body Assembly

Ref. No.	Part No.	Qty.	Description
1	701178	2	Cap–Protector
2	322–5	2	Screw–HH
3	3256–23	4	Washer–Flat
4	88–6220	2	Spring – Compression
5	99–2957–03	1	Panel–Rear Hitch
6	3296–29	24	Nut–Lock
7	322–3	22	Screw–HH
8	99–2953–03	1	Plate–Switch
9	95–1653	1	Switch – Single Pole
10	94–1967–03	2	Brkt–Tran Mntg
11	88–4620–03	1	Bracket–Idler Pivot
12	322–3	2	Screw–HH
13	99–2958–03	1	Rail– LH Frame
14	3296–1	2	Nut–Lock NI
15	3290–392	2	Screw – HHF
16	3296–29	2	Nut–Lock
17	88–4960–03	1	Shield–Exhaust Pipe
18	88–6290–03	1	Shield–Muffler
19	32104–76	1	Screw
21	98–3575–03	1	Support–Front Axle
24	88–4630–03	1	Plate–Eng Mtg
25	99–2959–03	1	Rail– RH Frame
28	99–2971	1	Body ASM–Rear
33	99–6094	1	Decal – Instruction
35	95–0809	1	Decal–Rear Body
37	3256–23	2	Washer–Flat

Ref. No.	Part No.	Qty.	Description

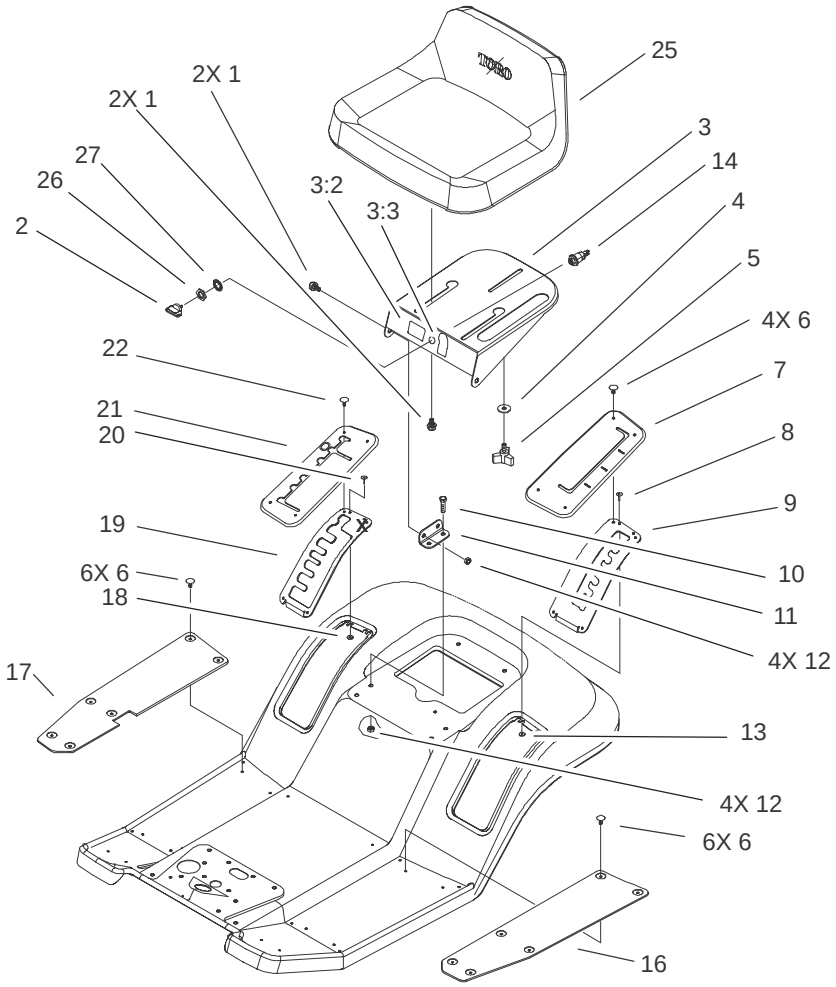


Sheet No.:3

Hood & Tower Assembly

Ref. No.	Part No.	Qty.	Description
1	99–1947	1	Tower–Steering
2	94–5565	1	Knob – Shift
3	46–8091	3	Screw–HWH
4	3296–42	4	Nut–Lock NI
5	321–2	4	Screw–HH
6	28–0540	2	Bolt–Shoulder
7	88–6050–03	1	Bracket–LH Hinge
8	3290–496	2	Nut–Retainer
11	94–1984	1	Latch – Pin
12	88–4050	1	Duct–Air
13	46–8090	7	Screw–Plastite
14	92–8650	1	Hood–V–Chassis Toro
14:1	92–5748	1	Decal–Air Duct Toro
15	92–5782	3	Foil Tape
16	88–3930–03	1	Shield–Heat
18	88–6040–03	1	Bracket–RH Hinge
19	3290–307	2	Pin–Hair
20	100–7401	1	Rod–Tower Pivot
21	3256–24	2	Washer–Flat
22	3218–3	2	Nut–Jam
23	100–7402	2	Nut–Cap
24	100–7403	2	Washer–Flat
25	88–5190–03	1	Deck Engage Lev Wa
26	3296–29	2	Nut–Lock
27	3256–23	2	Washer–Flat

Ref. No.	Part No.	Qty.	Description
28	322–3	2	Screw–HH
29	92–2480	2	Decal – 1232xl
30	99–8140	1	Decal–Ignition
31	92–2461	1	Decal – Throttle
32	92–2462	1	Decal – Deck Engage
33	95–0808	1	Decal – Hood Left
34	95–0807	1	Decal – Hood Right
39	94–1980	2	Foam – Hood
40	100–6220	1	Decal–Service, 71199

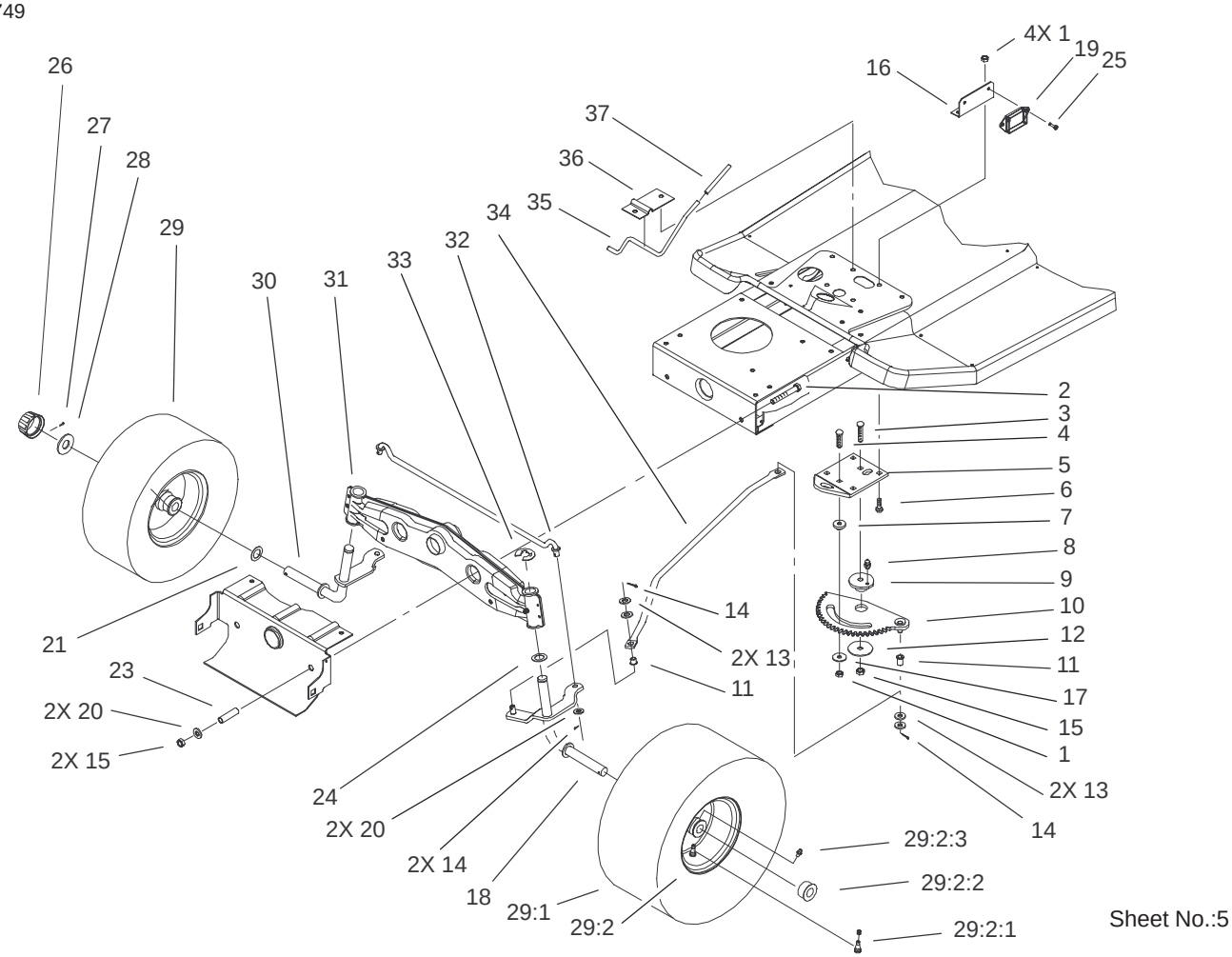


Sheet No.:4

Rear Body & Seat Assembly

Ref. No.	Part No.	Qty.	Description
1	37–8770	4	Bolt–Shoulder
2	63–8360	1	Key–Ignition
3	99–5830	1	Support ASM–Seat
3:2	99–2985	1	Decal–Danger
3:3	99–5339	1	Decal
4	5–4460	1	Washer–Pivot
5	92–9674	1	Knob
6	3290–479	16	Fastener–Panel
7	88–5170	1	Cover – HOC
8	3290–282	2	Rivet–Pop, Steel
9	88–5030–03	1	Gate–HOC
10	322–3	4	Screw–HH
11	88–4820–03	2	Bracket–Seat Hinge
12	3296–29	8	Nut–Lock
13	3269–26	2	Washer–Flat
14	46–5780	1	Switch–Starter
16	88–5240	1	Mat–LH Foot
17	88–5220	1	Mat–RH Foot
18	3269–26	2	Washer–Flat
19	88–5020–03	1	Plate–Shift Gate
20	3290–282	2	Rivet–Pop, Steel
21	88–5160	1	Cover–Shift Gate
22	3290–479	4	Fastener–Panel
25	88–4330	1	Seat
26	218–461	1	Nut–HH
27	3254–5	1	Washer–Lock, Internal

Ref. No.	Part No.	Qty.	Description



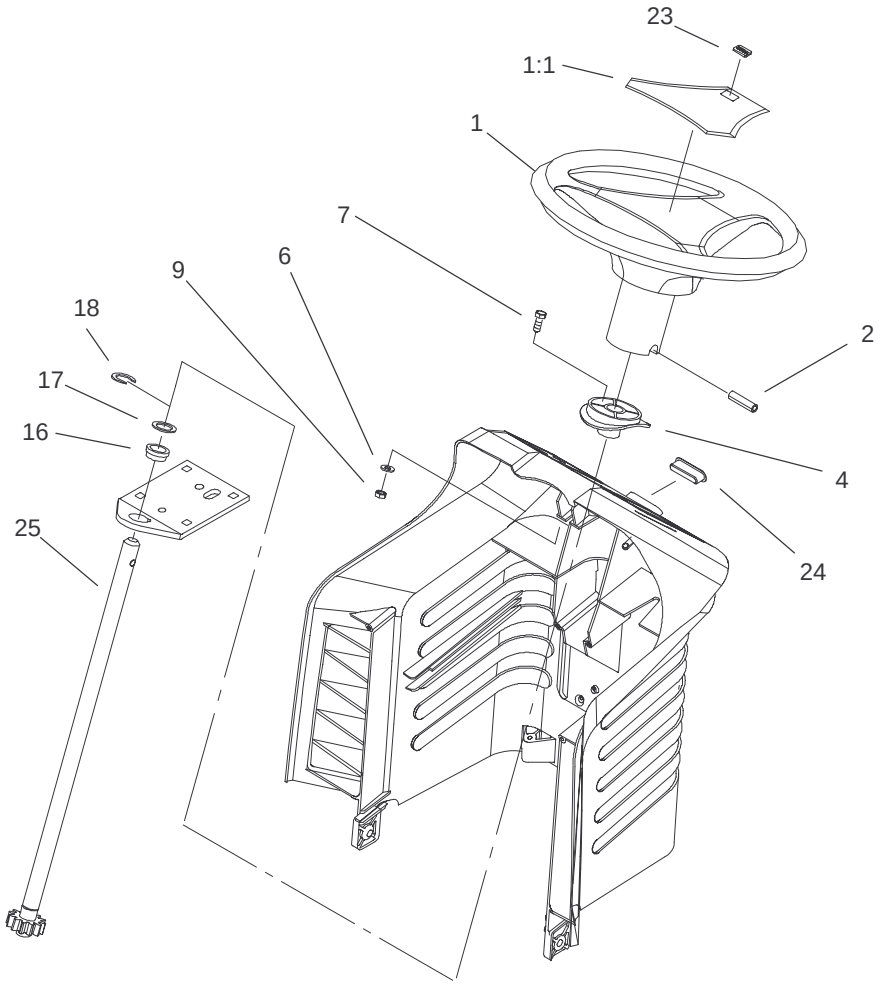
Sheet No.:5

Steering Components Assembly

Ref. No.	Part No.	Qty.	Description
1	3296–29	5	Nut–Lock
2	323–13	2	Screw–HH
3	3231–4	1	Screw–CARR
4	3230–3	1	Screw–CARR
5	88–5130–03	1	Bracket–Steering Rack
6	3230–2	4	Screw–CARR
7	88–5010	1	Spacer – Steering Rack
8	302–26	1	Zerk
9	88–4670	1	Bushing – Eccentric
10	88–5200	1	Steering Rack Wa
11	52–2891	2	Bushing–Steering Link
12	111419	1	Bearing–Washer
13	3256–25	4	Washer–Flat
14	3272–10	4	Pin–Cotter
15	3296–39	3	Nut–Lock, NI
16	99–2956–03	1	Bracket–Module
17	5–4460	1	Washer–Pivot
18	92–7890–03	1	LH Spindle Wa
19	99–3700	1	Module–Nmir
20	3256–24	4	Washer–Flat
21	3–6498	4	Washer–Thrust
23	88–5470	2	Spacer–Front Axle
24	3–6498	4	Washer–Thrust
25	9266714	2	Screw–HWH

Ref. No.	Part No.	Qty.	Description
26	61–9780	2	Cap–Hub
27	3272–12	2	Pin–Cotter
28	28–2480	2	Washer
☆29		2	Wheel&tire ASM–Front
29:1	99–2992	1	Tire
29:2	88–4360	1	Rim Assembly
29:2:1	232–27	1	Stem–Valve
29:2:2	88–4400	2	Bearing – Wheel
29:2:3	302–5	1	Fitting – Grease
*	232–38	1	Tube
30	92–7889–03	1	RH Spindle Wa
31	94–1962–03	1	Axle Wa–Front
32	88–5380	1	Tie Rod – Steering
33	32151–48	2	E–Ring
34	88–4830	1	Link–Drag
35	88–5510	1	Rod–Parking Brake
36	88–5520–03	1	Bracket–Parking Brake
37	88–0890	1	Grip–Bag Handle

☆ Not serviced
* Not illustrated

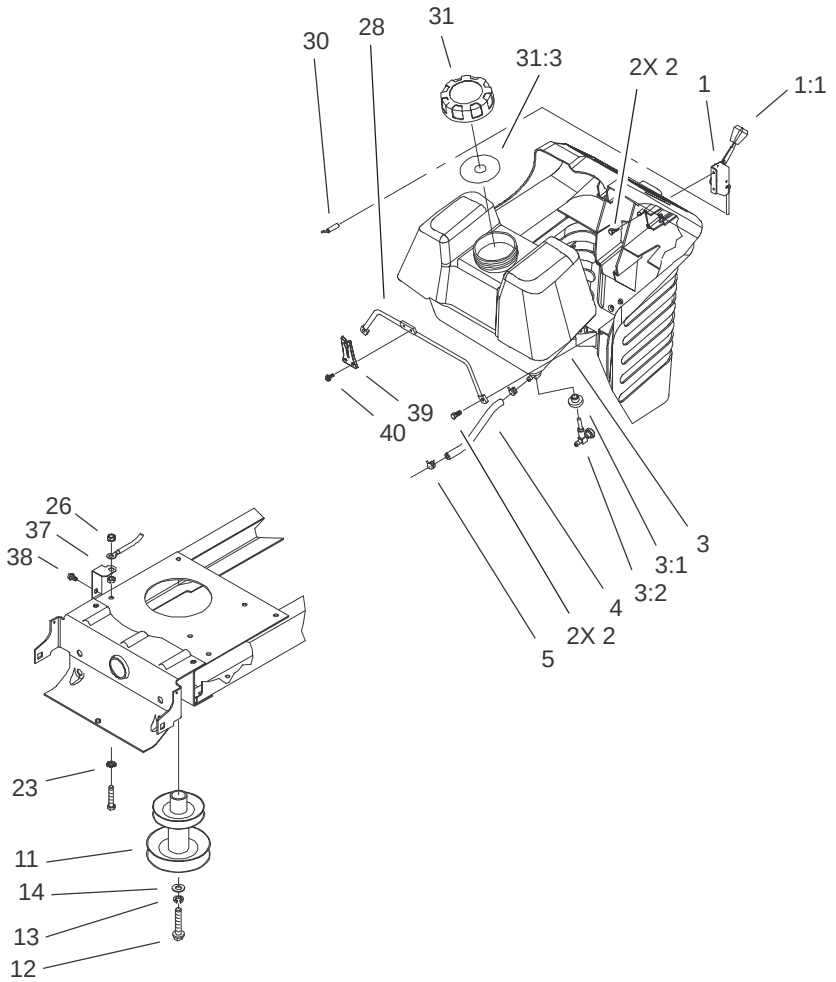


Sheet No.:7

Fixed Steering Assembly

Ref. No.	Part No.	Qty.	Description
1	98–1467	1	Wheel – Steering
1:1	98–1468	1	Cover – Wheel Steering
2	32121–111	1	Pin–Roll
4	88–4190	1	Bushing – Sliding
6	3256–22	2	Washer–Flat
7	321–4	2	Screw–HH
9	3296–42	2	Nut–Lock NI
16	88–5150	1	Bearing–Flange
17	3–6498	1	Washer–Thrust
18	32151–48	1	E–Ring
23	98–1459	1	Decal–Toro
24	88–4150	1	Plug
25	88–6380	1	Shaft–Long Steering

Ref. No.	Part No.	Qty.	Description

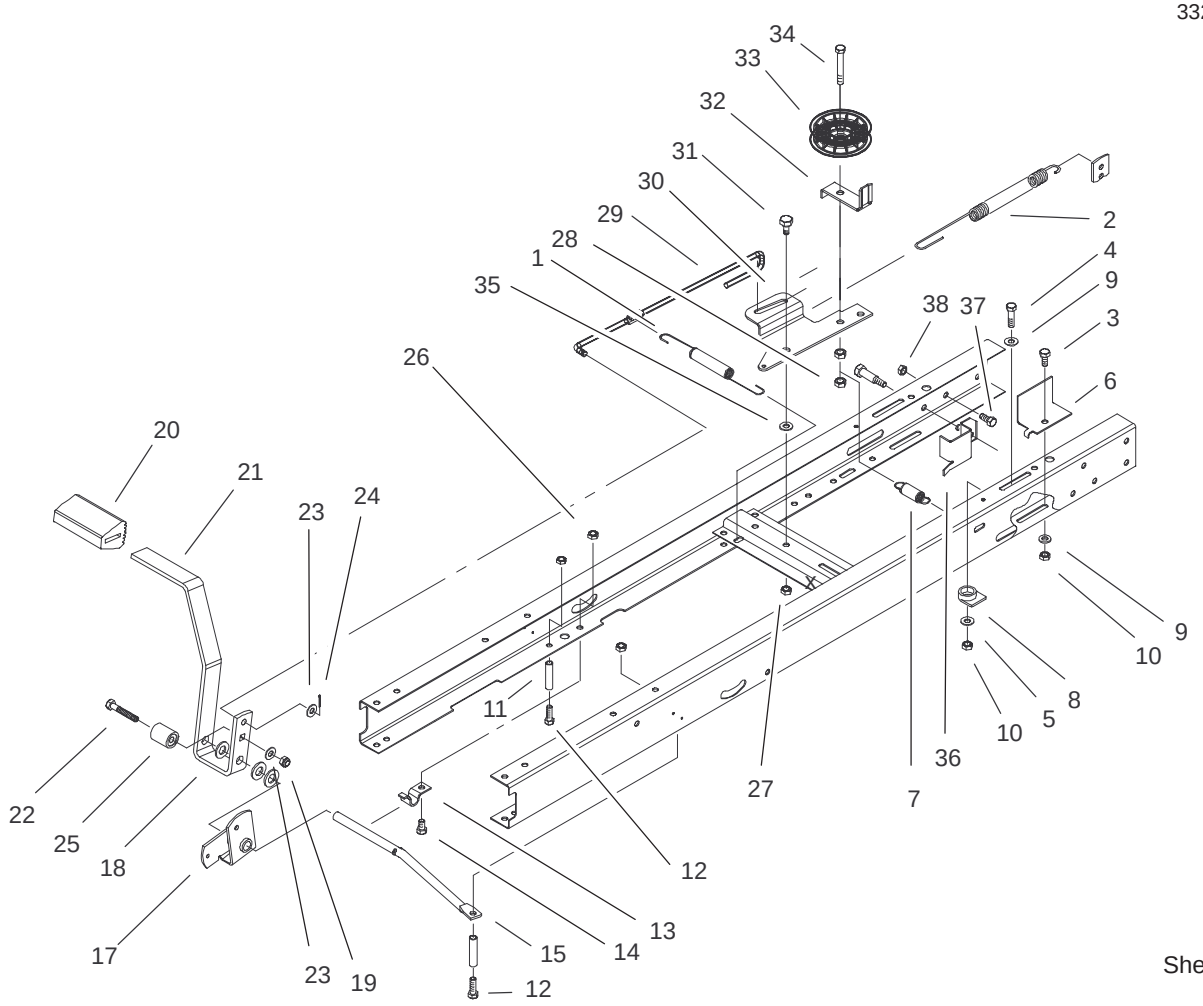


Sheet No.:8

Engine System Components Assembly

Ref. No.	Part No.	Qty.	Description
1	88–4340	1	Control–Throttle
1:1	66–0120	1	Knob
2	27–0220	4	Screw–Special
3	88–3880	1	Gas Tank ASM
3:1	104047	1	Bushing
3:2	104048	1	Valve–Fuel
4	47–2963	1	Hose–Gas
5	2412–98	2	Clamp
11	88–5050	1	Pulley–Engine
12	62–3760	1	Screw–HH
13	3253–22	1	Washer–Lock/Sp
14	3256–25	1	Washer–Flat
23	3255–8	1	Washer–Lock/Ext
26	32149–1	2	Nut
28	94–1952	1	Rod – Gas Tank
30	88–4350	1	Cable–Throttle
31	88–3980	1	Gas Cap ASM
31:3	88–4010	1	Gasket–Cap, Gas
37	93–3809	1	Bracket– Ground
38	9266714	1	Screw–HWH
39	94–1951	1	Latch – Hood
40	32144–112	2	Screw–Forming, Thread

Ref. No.	Part No.	Qty.	Description

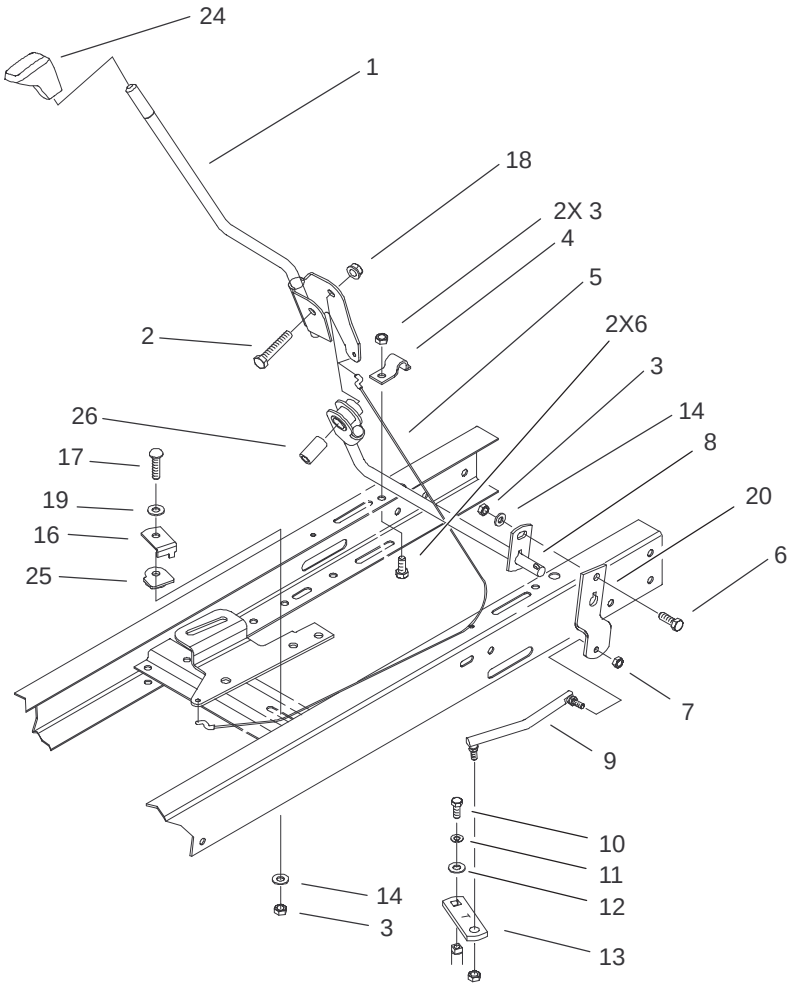


Sheet No.:9

Traction Clutching Assembly

Ref. No.	Part No.	Qty.	Description
1	27–8890	1	Spring–Return
2	94–4295	1	Spring – Brake
3	322–3	1	Screw–HH
4	322–6	1	Screw–HH
5	5–4460	1	Washer–Pivot
6	94–5433	1	Bracket – Belt Guide
7	88–6330	1	Spring – Extension
8	84–5610	1	Guide–Cable
9	3256–23	2	Washer–Flat
10	3296–29	2	Nut–Lock
11	46–5590	2	Tubing–Spacer
12	322–12	2	Screw–HH
13	88–4810	1	Clamp–Shift Pivot
14	322–3	1	Screw–HH
15	88–5500	1	Rod–Pedal Pivot
17	88–4800–03	1	Bellcrank
18	3256–26	3	Washer–Flat
19	3296–47	1	Nut–Lock, NI
20	65–2920	1	Pad–Pedal
21	88–5000–03	1	Pedal–Clutch/Brake
22	322–9	1	Screw–HH
23	3256–23	2	Washer–Flat
24	3272–10	1	Pin–Cotter
25	99–6836	1	Spacer–Switch
26	3296–29	3	Nut–Lock
27	3296–29	1	Nut–Lock

Ref. No.	Part No.	Qty.	Description
28	3296–59	2	Nut–Lock, NI
29	88–5270	1	Rod–Clutch/Brake
30	88–6070	1	Arm–Idler
31	37–8770	1	Bolt–Shoulder
32	88–5560	1	Guide–Idler Belt
33	104–4160	1	Pulley–Idler
34	323–10	1	Screw–HH
35	5–4460	1	Washer–Pivot
36	94–4926	1	Bracket – Belt Guide
37	322–3	1	Screw–HH
38	3296–29	1	Nut–Lock

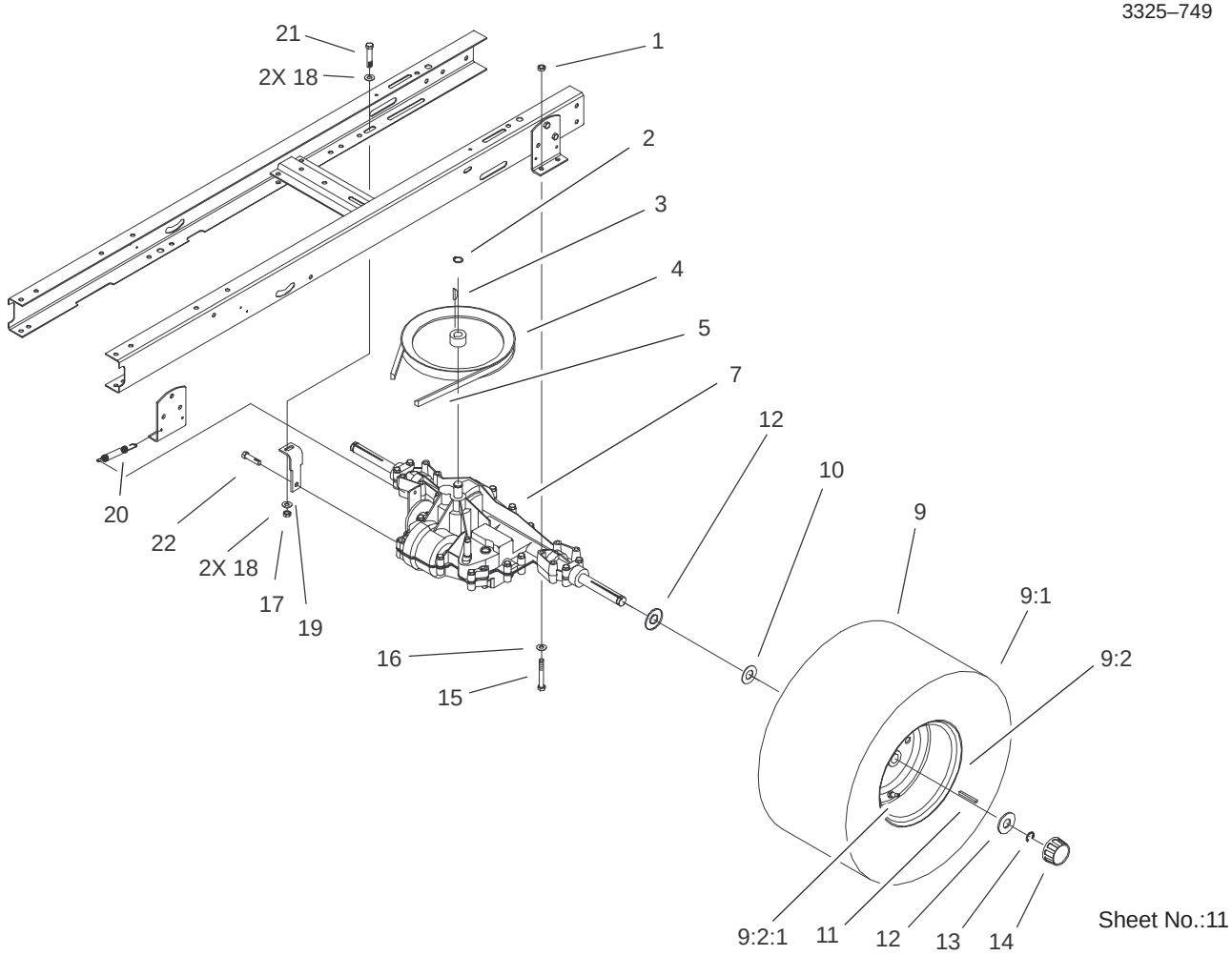


Sheet No.:10

Shifting Components Assembly

Ref. No.	Part No.	Qty.	Description
1	94–1991–03	1	Wa–Shift Lever
2	323–10	1	Screw–HH
3	3296–29	4	Nut–Lock
4	88–4810	2	Clamp–Shift Pivot
5	55–9321	1	Cable–Clutch
6	322–3	3	Screw–HH
7	3296–3	2	Nut–Lock NI
8	94–1993–10	1	Wa–Shift Pivot
9	94–5432	1	Link – Shift
10	329–23	1	Screw–HH
11	3253–3	1	Washer–Lock
12	7–5461	1	Spacer
13	88–5340	1	Lever–Shift
14	3256–23	2	Washer–Flat
16	88–5930	1	Keeper–Cable
17	3230–3	1	Screw–CARR
18	3296–39	1	Nut–Lock, NI
19	3256–25	1	Washer–Flat
20	94–1968	1	Lever–Shift Pivot
24	94–5565	1	Knob – Shift
25	84–5610	1	Guide–Cable
26	94–1997	1	Bushing – Shift Lever

Ref. No.	Part No.	Qty.	Description



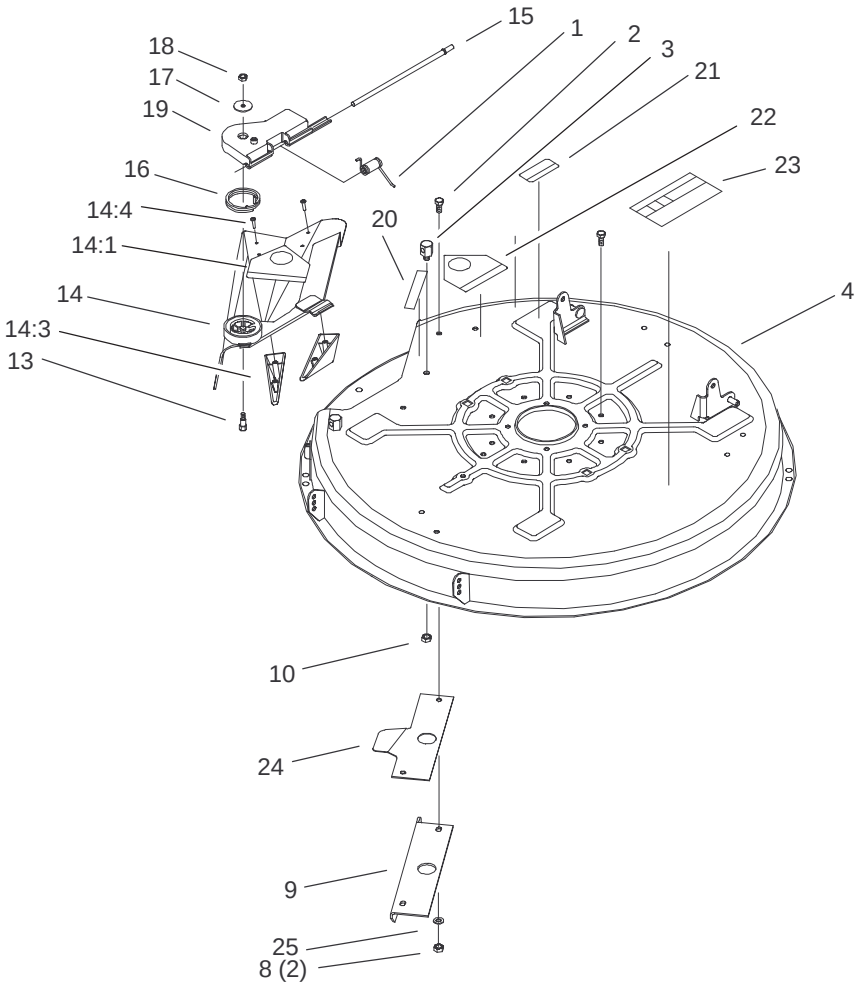
Sheet No.:11

5 Speed Transaxle

Ref. No.	Part No.	Qty.	Description
1	3296–29	4	Nut–Lock
2	32120–64	1	Ring–Snap, External
3	3257–23	1	Key–Woodruff
4	88–4840	1	Pulley – Transmission
5	94–4291	1	V–Belt, Traction
7	94–6022	1	Transaxle
☆9		2	Wheel&tire ASM–Rear
9:1	99–2336	1	Tire
9:2	88–4380	1	Rim Assembly
9:2:1	232–27	1	Stem–Valve
*	231–91	1	Tube
10	3–6498	2	Washer–Thrust
11	7–0036	2	Key
12	28–2480	2	Washer
13	32151–48	2	E–Ring
14	61–9780	2	Cap–Hub
15	322–12	4	Screw–HH
16	3256–23	4	Washer–Flat
17	3296–29	2	Nut–Lock
18	3256–23	4	Washer–Flat
19	94–1969	2	Strap – Torque
20	26–6701	1	Spring–Brake Return
21	322–3	2	Screw–HH
22	32144–14	2	Screw–HWH

Ref. No.	Part No.	Qty.	Description

☆ Not serviced
* Not illustrated

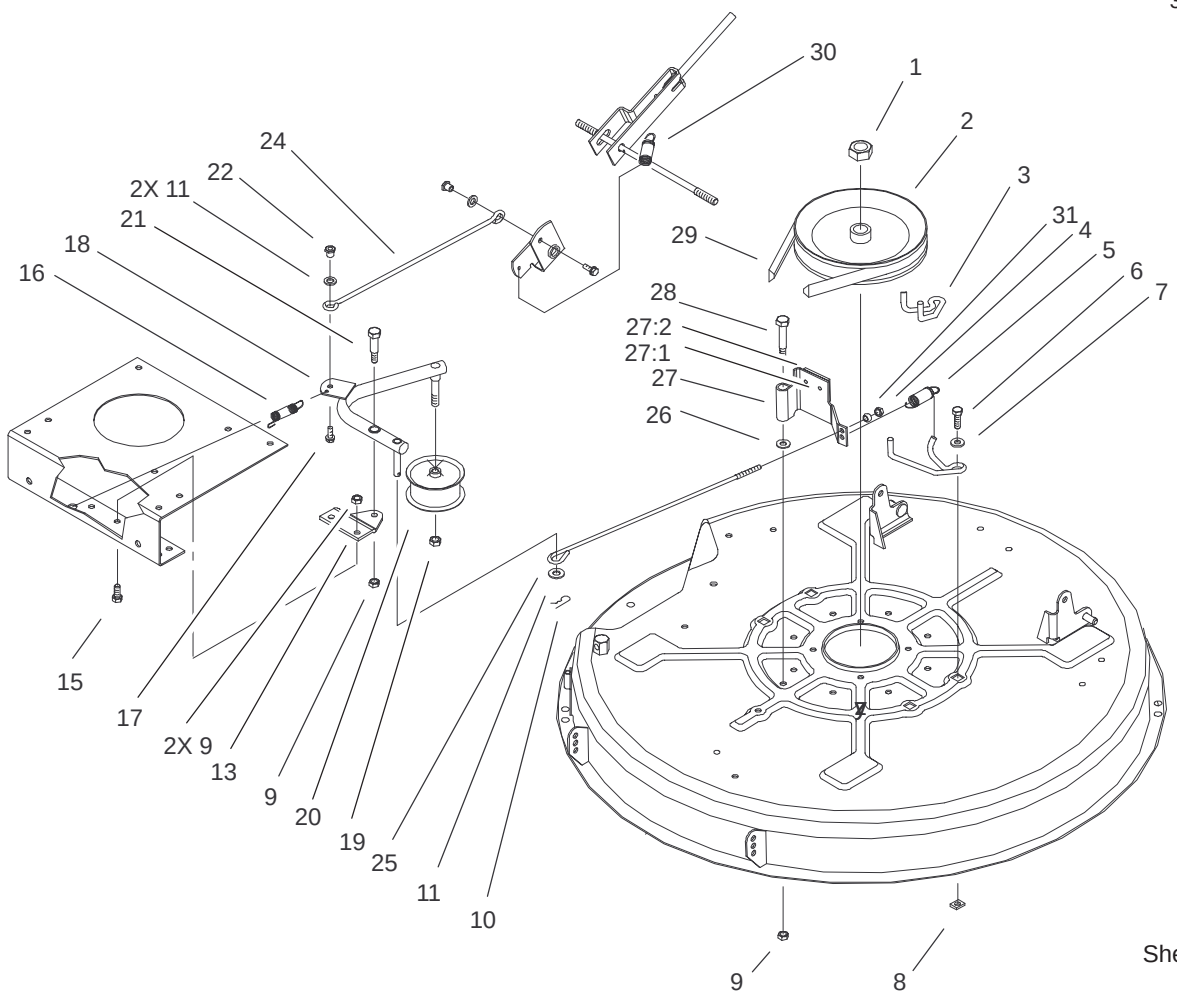


Sheet No.:14

32” Deck Components Assembly

Ref. No.	Part No.	Qty.	Description
1	92–2493	1	Spring
2	322–3	2	Screw–HH
3	28–7350	1	Post–Pivot
4	95–7482	1	ASM–Deck Dom (Service)
8	3296–29	2	Nut–Lock
9	44–5720–03	1	Baffle–Deck
10	3296–59	1	Nut–Lock, NI
13	92–8916	1	Bolt – Shoulder
14	100–6200	1	ASM – Deflector, 32”
14:1	93–1122	1	Decal–Danger
14:3	93–7696	2	Kicker
14:4	93–0231	4	Screw – PPH
15	88–6150	1	Rod–Deflector Hinge
16	88–6160	1	Spring–Torsion
17	3256–58	1	Washer–Flat
18	3296–42	1	Nut–Lock NI
19	88–4540	1	Pivot–Hinge Deflector
20	68–3650	1	Decal–Deflector Danger
21	55–4300	2	Decal
22	93–1122	1	Decal–Danger
23	66–1340	1	Decal–Danger
24	92–2494–03	1	Ramp–Deflector
25	3256–23	2	Washer–Flat

Ref. No.	Part No.	Qty.	Description

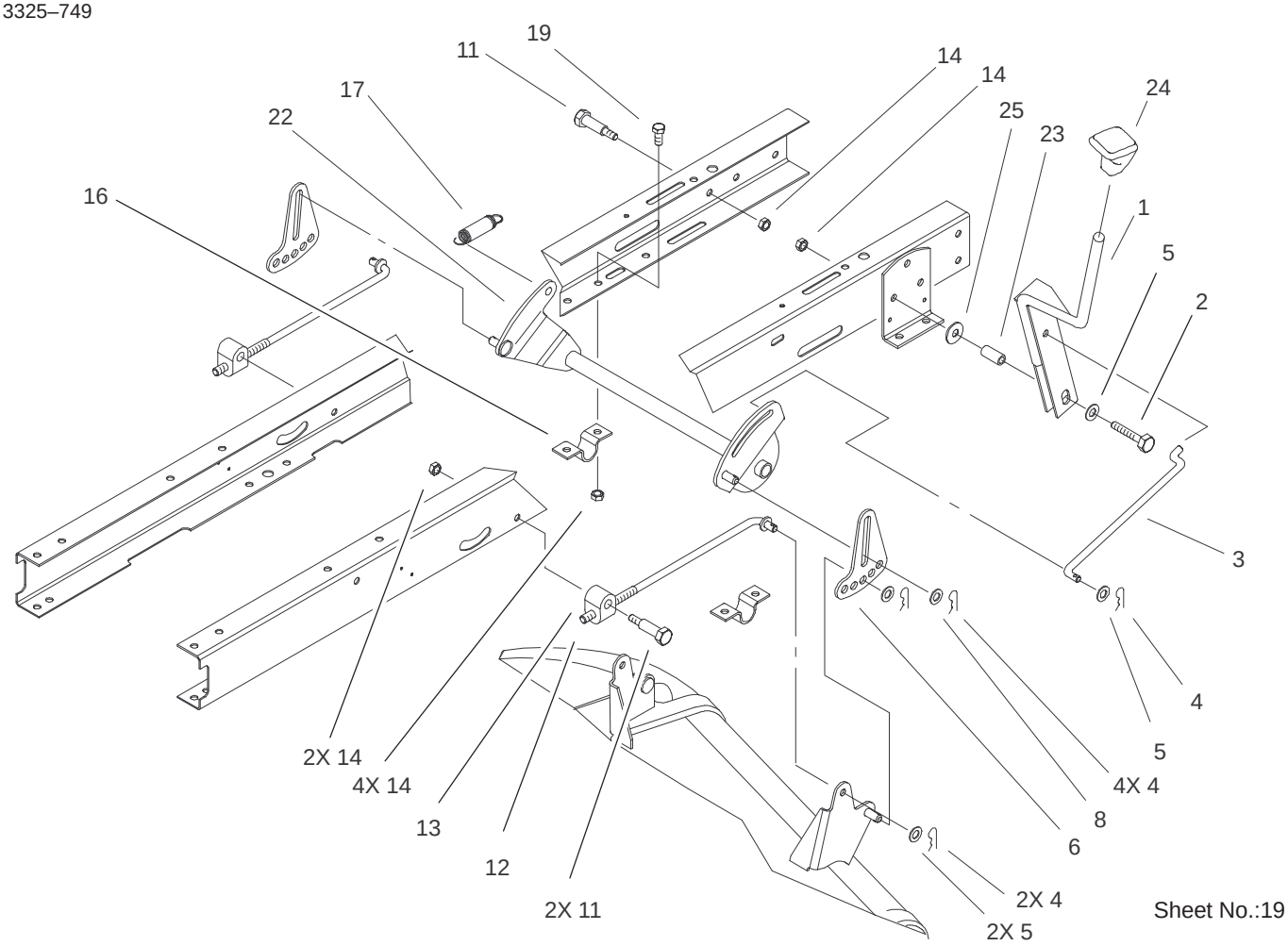


Sheet No.:15

32” Deck Blade Drive & Braking Components Assembly

Ref. No.	Part No.	Qty.	Description
1	3219–7	1	Nut–Hex
2	88–5060	1	Pulley–Deck
3	88–5760	2	Guide–Deck Belt
4	3296–42	1	Nut–Lock NI
5	88–6330	1	Spring – Extension
6	322–5	2	Screw–HH
7	5–4460	2	Washer–Pivot
8	3290–496	2	Nut–Retainer
9	3296–29	4	Nut–Lock
10	3290–307	1	Pin–Hair
11	3256–24	3	Washer–Flat
13	88–5370–03	1	Plate–Idler Mtg
15	322–3	2	Screw–HH
16	26–6700	1	Spring–Brake Return
17	3234–13	2	Screw–HHF
18	88–5850–03	1	Idler Arm Wa
19	3296–39	1	Nut–Lock, NI
20	56–9870	1	Pulley–Idler
21	7–0030	1	Bolt–Shoulder
22	47–4990	2	Post–Linkage Mounting
24	88–5980	1	Rod–Deck Engage
25	88–5690	1	Rod–Deck Brake
26	3256–23	1	Washer–Flat
27	88–6110	1	Brake Arm ASM
27:1	3290–282	2	Rivet–Pop, Steel

Ref. No.	Part No.	Qty.	Description
27:2	56–9830	1	Pad–Brake
28	88–4590	1	Bolt–Shoulder
29	88–6260	1	V–Belt
30	88–6420	1	Spring–Cable ASM
31	67–0710	1	Ball–Swivel Stop

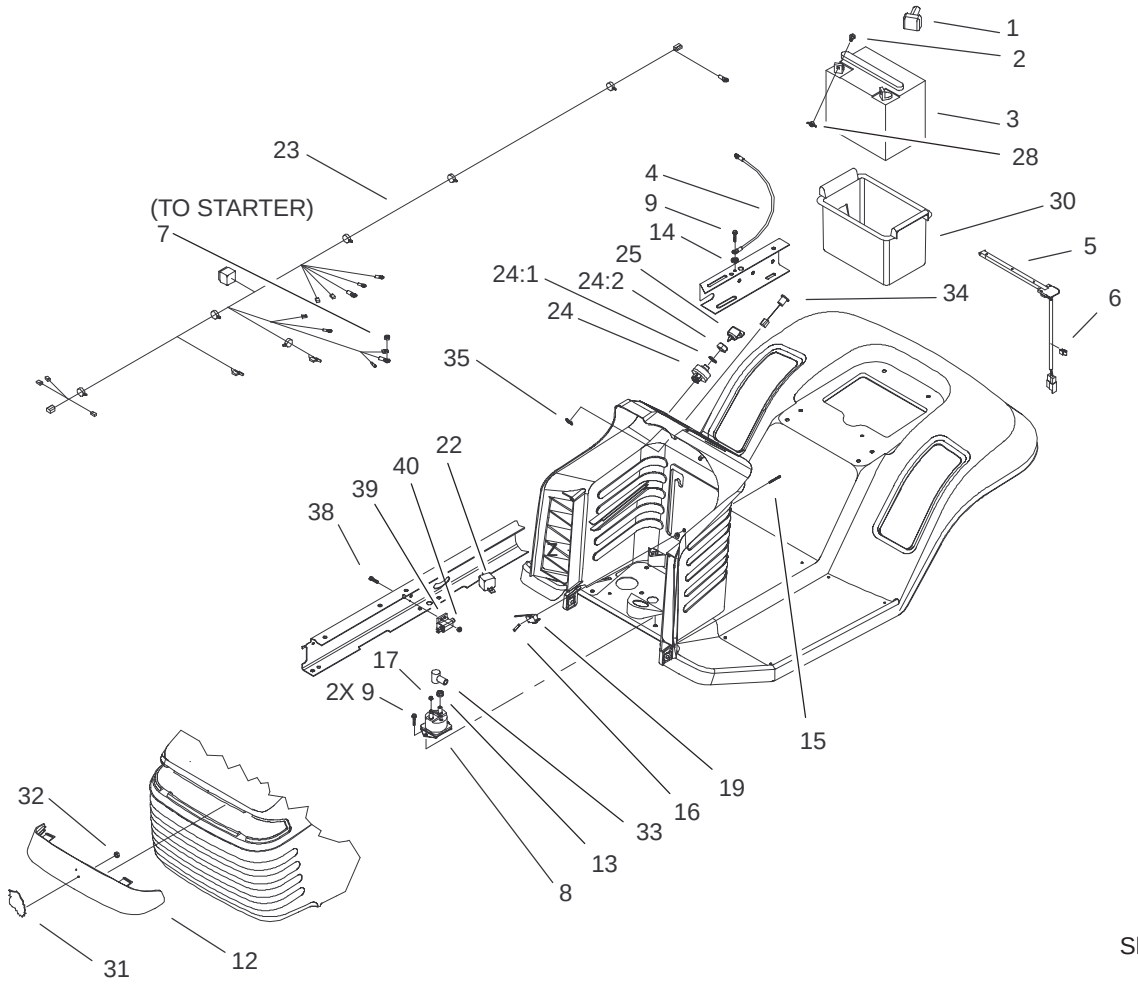


Sheet No.:19

Height Of Cut Components Assembly

Ref. No.	Part No.	Qty.	Description
1	93–3822–03	1	Lever Wa
2	322–39	1	Screw–HH
3	88–5900	1	Link–HOC
4	3290–307	7	Pin–Hair
5	3256–24	4	Washer–Flat
6	88–5570–03	2	Link–HOC Adjusting
8	80–6990	4	Washer–Hardened
11	7–0030	3	Bolt–Shoulder
12	88–5450	2	Rod–Hanger Rear
13	88–4230	2	Trunnion–HOC
14	3296–29	8	Nut–Lock
16	88–4730	2	Clamp–HOC Pivot
17	88–6460	1	Spring – Extension
19	322–3	4	Screw–HH
22	88–5110–03	1	Pivot Wa
23	65–7210	1	Spacer
24	94–5565	1	Knob – Shift
25	5–4460	2	Washer–Pivot

Ref. No.	Part No.	Qty.	Description

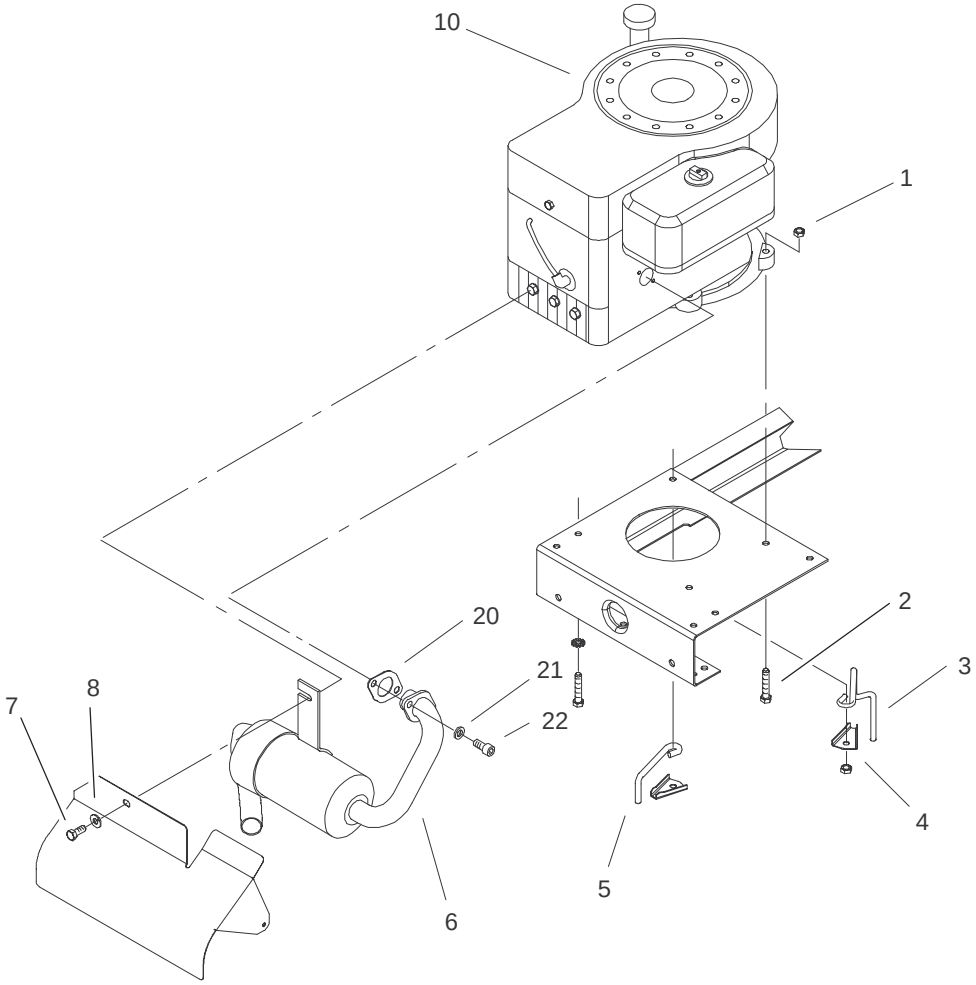


Sheet No.:20

Electrical Components Assembly

Ref. No.	Part No.	Qty.	Description
1	28–8080	1	Boot–Terminal
2	321–4	2	Screw–HH
3	104–1755	1	Battery–155 Cca
4	44–8110	1	Wire ASM
5	38–1420	1	Switch–Seat
6	702366	1	Clip–Wire Retainer
7	32149–2	1	Nut
8	28–4210	1	Solenoid
9	9266714	3	Screw–HWH
12	88–3960	1	Lens–Headlight
13	32149–1	2	Nut
14	3255–7	2	Washer–Lock/Ext
15	93–0539	2	Screw–HH
16	3290–354	1	Nut–Speed
17	32149–8	2	Nut–Keps
19	88–9932	1	Switch–Micro
22	98–7249	1	Relay–Speedometer
23	99–6841	1	Harness–Wire, Gear
24	88–9830	1	Switch–Ignition
24:1	3254–5	1	Washer–Lock, Internal
24:2	218–461	1	Nut–HH
25	63–8360	1	Key–Ignition
28	32103–22	2	Nut–Wing
30	88–4040	1	Box–Battery
31	80–2240	1	Emblem–Grille Whlhorse

Ref. No.	Part No.	Qty.	Description
32	3290–299	1	Clip
33	94–5362	1	Boot – Terminal Insulator
34	95–7652	1	Light – Indicator
35	99–6059	1	Clip–Retainer
38	3274–14	2	Screw–HSH
39	65–7410	1	Switch – Single Pole
40	3296–2	2	Nut–Lock



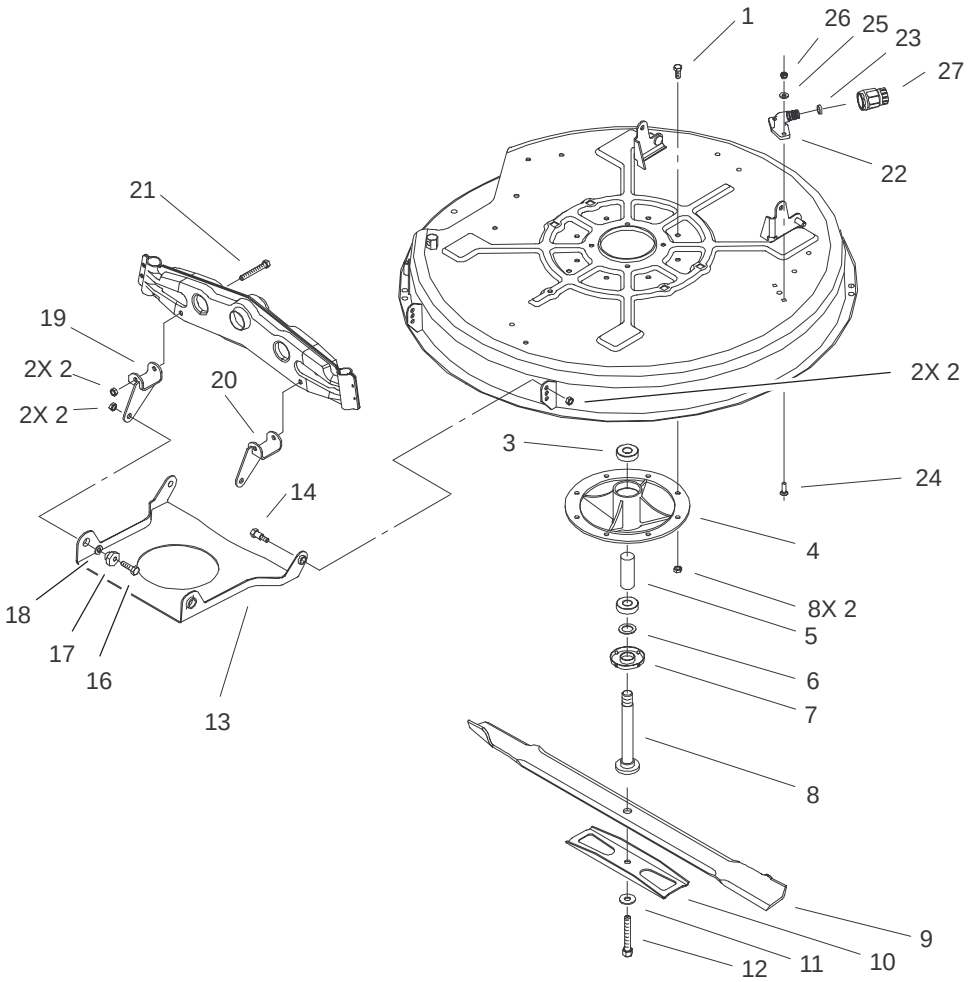
Sheet No.:25

“L” Engine System Components Assembly

Ref. No.	Part No.	Qty.	Description
1	3296–29	3	Nut–Lock
2	322–9	4	Screw–HH
3	88–6060	1	Guide–LH Belt
4	76–3820	2	Anchor–Belt Guide
5	88–5490	1	Guide–Belt RH
6	88–6480	1	Muffler Wa
7	321–4	1	Screw–HH
8	3253–3	1	Washer–Lock
☆10		1	Engine–12hp B&s Model 284707–1148–E1
20	88–4410	1	Gasket–Muffler
21	3253–4	2	Washer–Lock
22	3274–10	2	Screw–HSH

Ref. No.	Part No.	Qty.	Description

☆ Not serviced



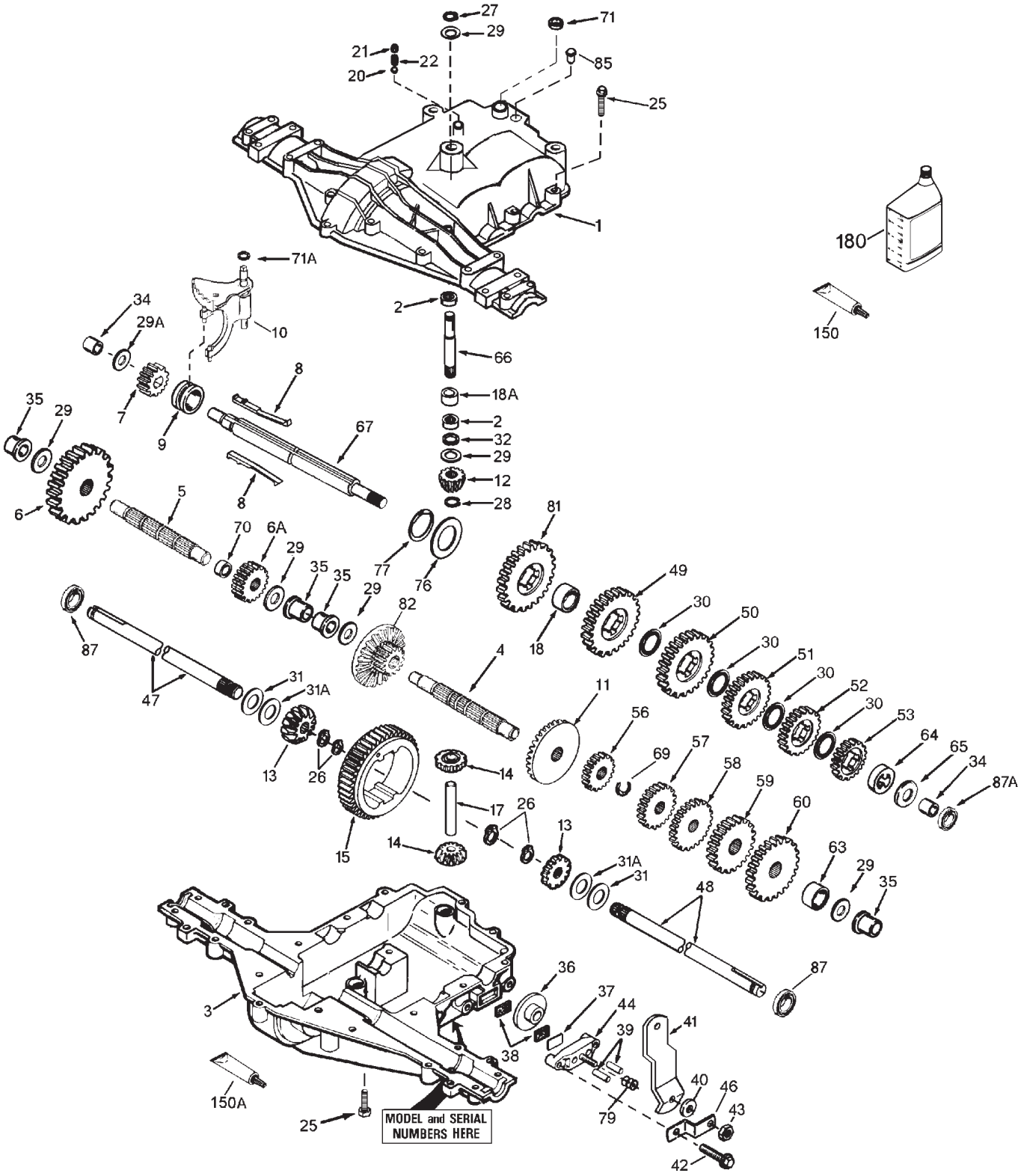
Sheet No.:26

32” Deck & Blade Assembly

Ref. No.	Part No.	Qty.	Description
1	322–3	8	Screw–HH
2	3296–29	14	Nut–Lock
3	251–297	2	Bearing
4	56–7030	1	Spindle
5	83–7020	1	Spacer–Bearing
6	80–4390	1	Spacer–Hardned
7	80–4370	1	Shield – Bearing
8	80–4350	1	Shaft–Spindle
9	33–4750	1	Blade
10	80–4570–03	1	Stiffener
11	3290–465	1	Washer–Belleville
12	26–0671	1	Screw–Blade
13	88–4940–03	1	Susp–Front Pan
14	28–0540	2	Bolt–Shoulder
16	322–6	2	Screw–HH
17	106661	2	Cam
18	3256–23	2	Washer–Flat
19	88–5640–03	1	RH Bracket Wa
20	88–5650–03	1	LH Bracket Wa
21	322–12	2	Screw–HH
22	95–2747	1	Fitting–Washout
23	46–6290	1	O–Ring
24	3229–1	2	Screw–CARR
25	3256–1	2	Washer–Flat
26	3296–16	2	Nut–Lock, NI
27	95–3270	1	Connector–hose

Ref. No.	Part No.	Qty.	Description

PEERLESS TRANSAXLE MODEL MST 205–509

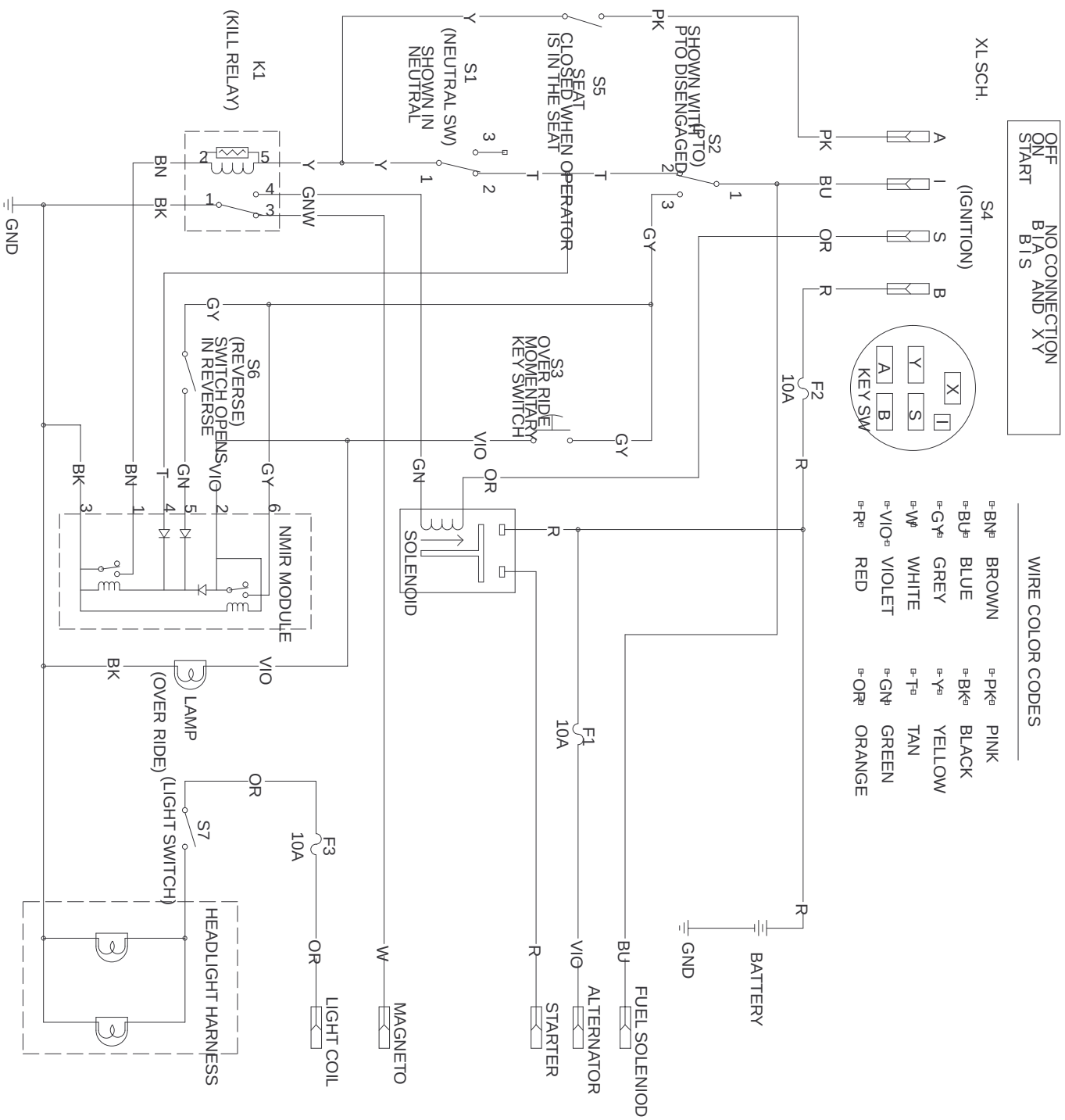


Peerless Transaxle Model MST 205–509

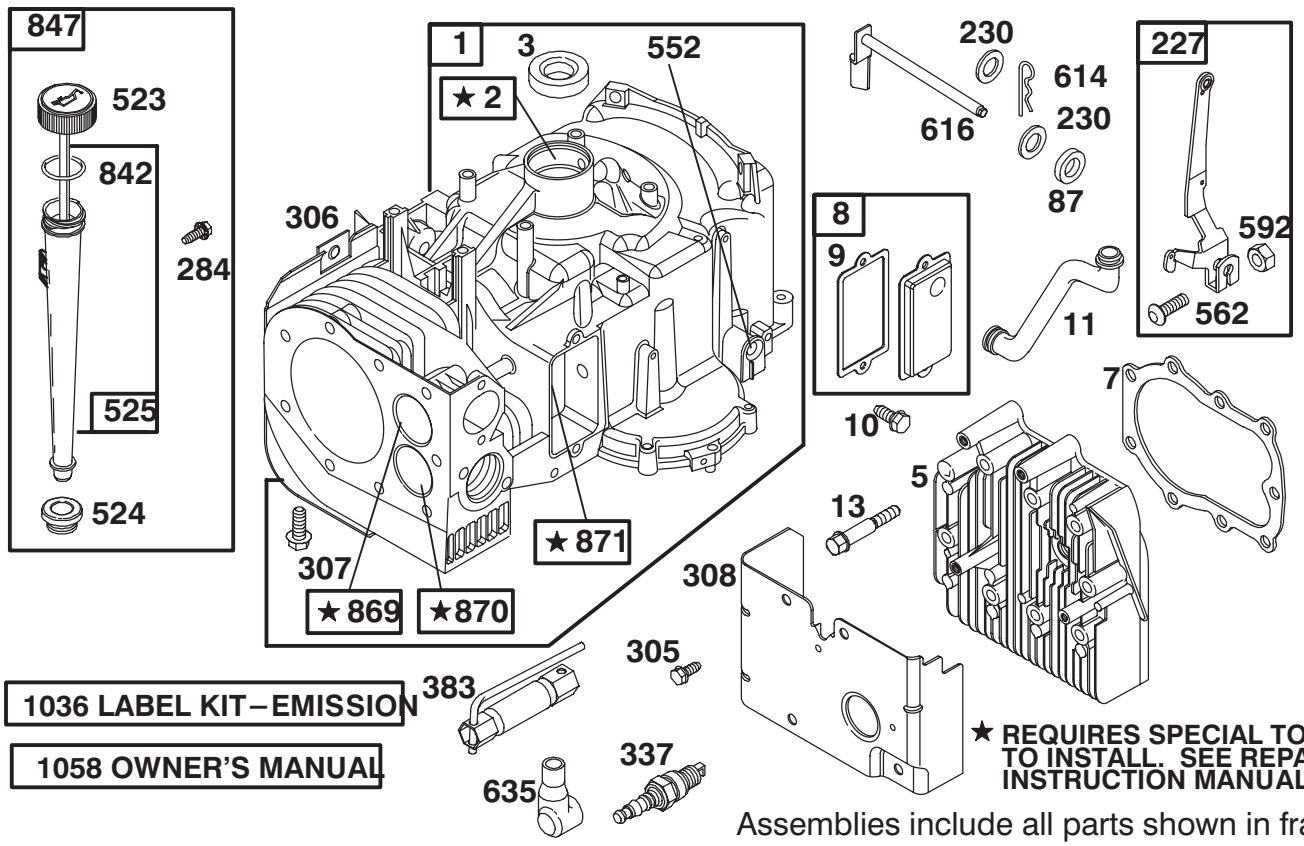
Ref. No.	Part No.	Qty.	Description
1	772137	1	Transaxle Cover
2	780086A	2	Needle Bearing
3	770123	1	Transaxle Case
4	776395	1	Countershaft
5	776397	1	Output Shaft
6	778331	1	Spur Gear (38 teeth)
6A	778332	1	Spur Gear (15 teeth–steel)
7	778330	1	Spur Gear (11 teeth–steel)
8	792136A	2	Shift Key
9	784352	1	Shift Collar
10	784378	1	Shift Rod & Fork
11	778334	1	Bevel Gear (30 teeth)
12	778309	1	Input Bevel Pinion (13 teeth)
13	778327		Bevel Gear (16 teeth–steel)
		2	(Incl. 14)
14	778327		Bevel Gear (16 teeth–steel)
		2	(Incl. 13)
15	778312A	1	Ring Gear (43 teeth)
17	786139	1	Drive Pin
18	786102	1	Spacer
18A	786175	1	Spacer
20	792077	1	Ball 5/16” dia
21	792078	1	Set Screw
22	792079	1	Spring
25	792073	18	Screw
26	792125	4	Retaining Ring (pkg of 2)
27	792035	1	Retaining Ring
28	788040	1	Retaining Ring
29	780072	6	Washer
29A	780160	1	Washer
30	780108	4	Washer
31	780001		Washer (.056 wide)
		2	(USE AS NEEDED)
31A	780195	2	Flat Washer (.062 wide)
32	788083	1	Oil Seal
34	780194	2	Bushing
35	780193	4	Flanged Bushing
36	790075	1	Brake Disk
37	790007	1	Brake Pad Plate
38	799021	2	Brake Pad (pkg of 2)
39	786026	2	Dowel Pin
40	792076A	1	Flat Washer

Ref. No.	Part No.	Qty.	Description
41	790080	1	Brake Lever
42	792073	2	Screw
43	792075	1	Locknut
44	790025	1	Brake Pad Holder
46	786086	1	Brake Lever Bracket
47	774690	1	Axle (11–15/16” long)
48	774691	1	Axle (16–1/2” long)
49	778356	1	Spur Gear (29 teeth–steel)
50	778354	1	Spur Gear (23 teeth–steel)
51	778344	1	Spur Gear (20 teeth)
52	778350	1	Spur Gear (16 teeth–steel)
53	778346	1	Spur Gear (15 teeth–steel)
56	778355	1	Spur Gear (11 teeth–steel)
57	778353	1	Spur Gear (17 teeth–steel)
58	778343	1	Spur Gear (20 teeth)
59	778349	1	Spur Gear (24 teeth–steel)
60	778345	1	Spur Gear (25 teeth)
63	786071	1	Countershaft Spacer
64	786072	1	Brake Shaft Spacer
65	780189	1	Washer
66	776394	1	Input Shaft
67	776396	1	Shifter & Brake Shaft
69	792170	1	Retaining Ring
70	786172	1	Spacer
71	788069	1	Square Cut Ring
71A	788092	1	”O” Ring
76	780090	1	Washer
77	788078A	1	Inverted Retaining Ring
79	792144	1	Spring
81	778338	1	Spur Gear (27 teeth)
82	778333		Bevel & Spur Gear
		1	(30 & 13 teeth)
85	792154	1	Pipe Plug
87	788088	2	Oil Seal
87A	788089	1	Oil Seal
150	788093	1	Liquid Gasket RTV Silicone
150A	788094	1	Liquid Gasket Loctite #242
180	730229A	1	Gear Oil 80W90

Wiring Schematic



Sheet No.:



Assemblies include all parts shown in frames.

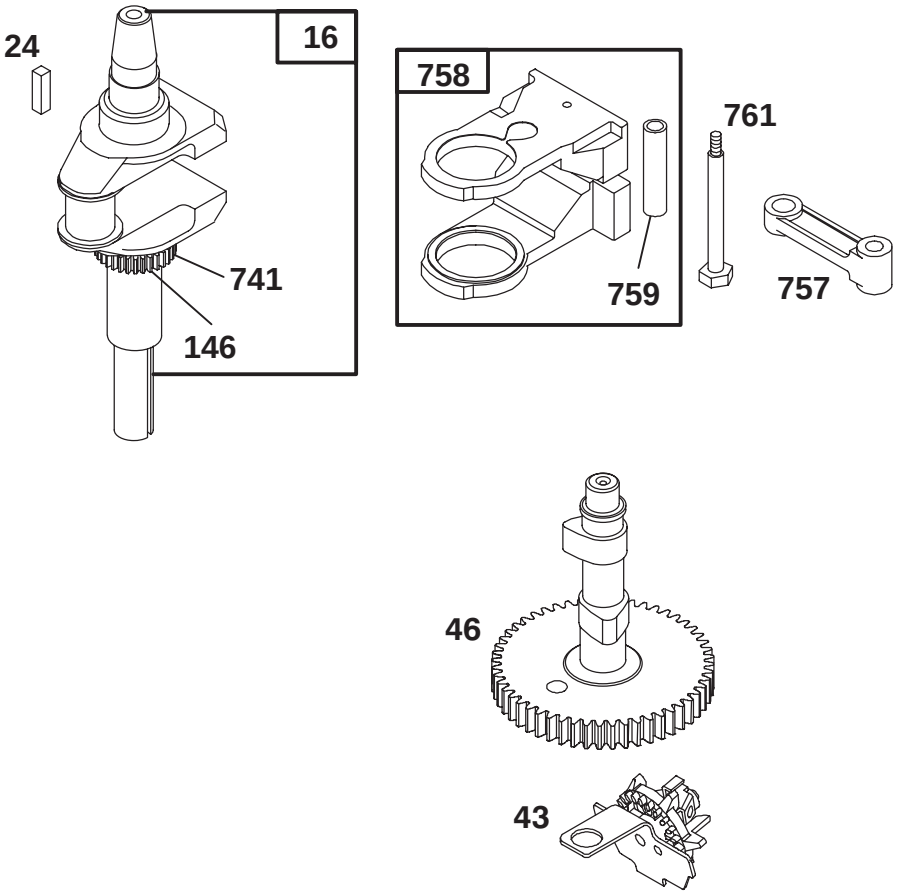
Sheet No.:

Engine Briggs & Stratton Model 284707–1148–E1

Ref. No.	Part No.	Qty.	Description
1	496413	1	Cylinder Assembly
2	399265	1	Bushing
⋆3	391086	1	Seal–Oil
5	494240	1	Head–Cylinder
†⋆7	271866	1	Gasket–Cylinder Head
8	495735	1	Breather Assembly
†⋆9	27803	1	Gasket–Breather
10	94621	1	Screw–Sem
11	280100	1	Tube–Breather
13	94622	1	Screw–Cylinder Head
⋆87	491323	1	Seal–Governor Shaft
227	493935	1	Lever–Governor
230	94927	1	Washer–Flat
284	94903	1	Screw–Shoulder
305	94786	1	Screw–Hex.
306	224545	1	Shield–Cylinder
307	94930	1	Screw–Hex. Head
308	491490	1	Cover–Cylinder Head
337	802592	1	Plug–Spark
383	89838	1	Wrench–Spark Plug
523	495230	1	Dipstick
⋆524	281370	1	Seal–Fill Tube
525	496113	1	Tube–Oil Fill
552	491986	1	Bushing–Gov. Crank
		1	Note: Includes Seal, Ref. No. 87

Ref. No.	Part No.	Qty.	Description
562	94907	1	Bolt–Governor Lever
592	231978	1	Nut–Hex.
614	93306	1	Pin–Cotter
616	495157	1	Crank–Governor
635	66538	1	Boot–Spark Plug
⋆842	270920	1	Seal–O–Ring
847	496415	1	Dipstick/Tube Assembly
869	261463	1	Seat–Intake Valve
870	262924	1	Seat–Exhaust Valve
871	261961	1	Bushing–Valve Guide (Exhaust) Note: 231218 Bushing–
		1	Valve Guide (Intake)
1036	499362	1	Label Kit–Emission
1058	273681	1	Owner's Manual

⋆ Included in Gasket Set–Part No. 494241. † Included in Valve Overhaul Gasket Set–Part No. 498539.



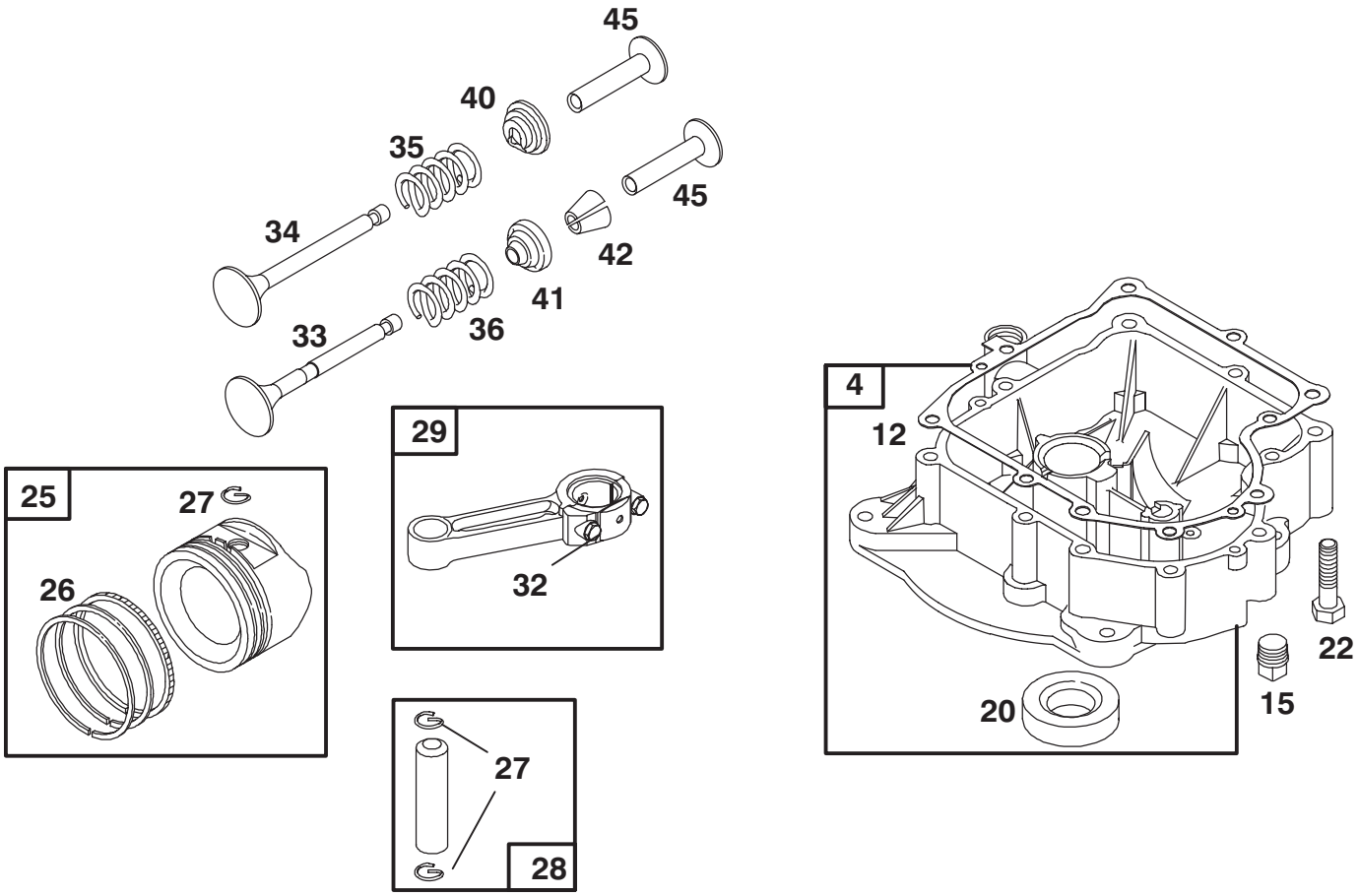
Sheet No.:

Assemblies include all parts shown in frames.

Engine Briggs & Stratton Model 284707–1148–E1

Ref. No.	Part No.	Qty.	Description
16	498971	1	Crankshaft
24	222698	1	Key–Flywheel
43	490815	1	Governor/Oil Slinger
46	212897	1	Gear–Cam
146	94196	1	Key–Timing
741	262932	1	Gear–Timing
757	213998	1	Link–Counterweight
758	399891	1	Counterweight
759	230787	1	Pin–Counterweight
761	94593	1	Screw–Counterweight

Ref. No.	Part No.	Qty.	Description



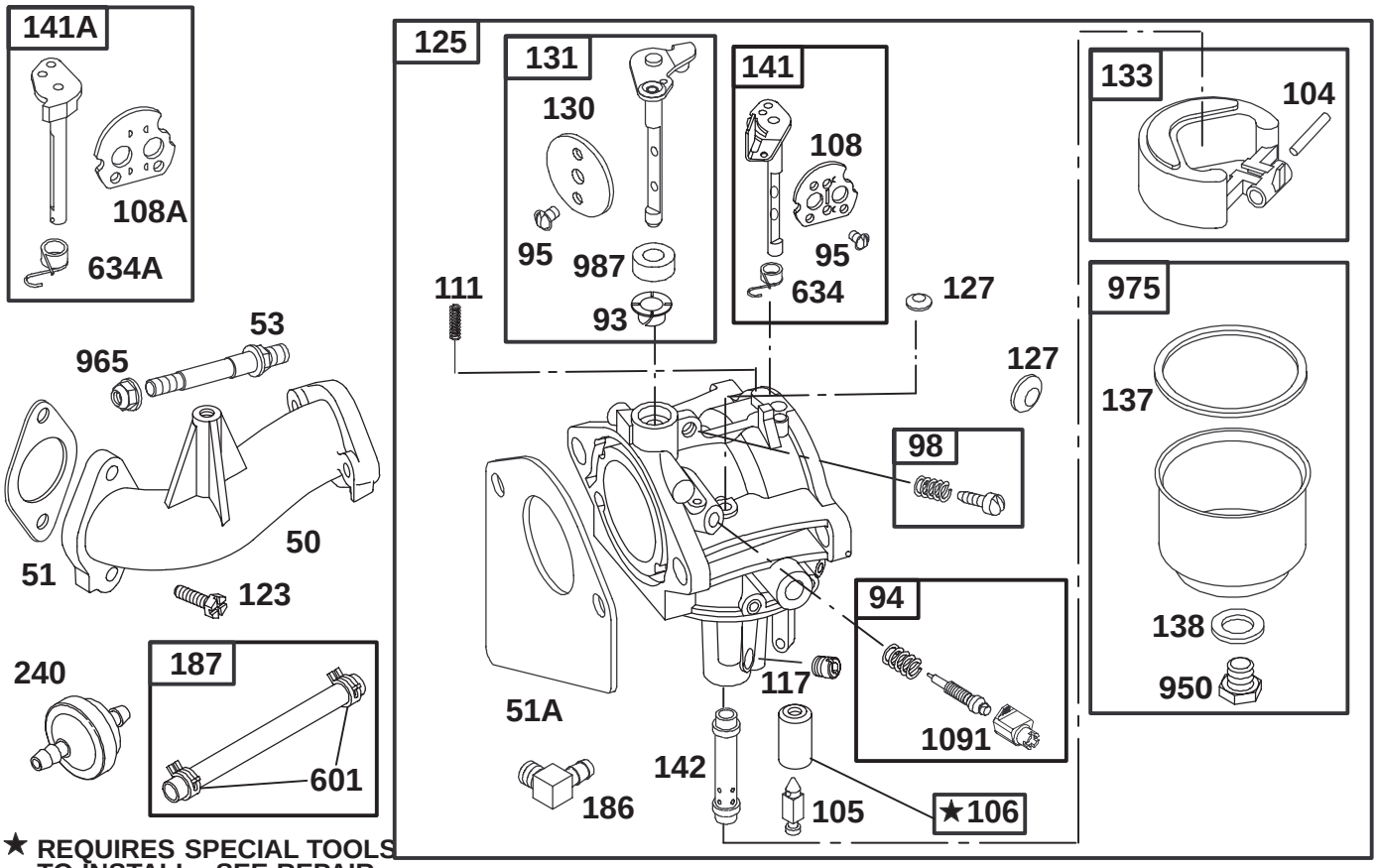
Assemblies include all parts shown in frames.

Sheet No.:

Engine Briggs & Stratton Model 284707–1148–E1

Ref. No.	Part No.	Qty.	Description
4	494238	1	Sump–Engine
★12	271916	1	Gasket–Crankcase (.015” Thick)
★	271997	1	Gasket–Crankcase (.005” Thick)
★	271996	1	Gasket–Crankcase (.009” Thick)
15	94239	1	Plug–Oil Drain
★20	291675	1	Seal–Oil
22	94624	1	Screw–Base Mtg. Sem
25	499284	1	Piston Assy. (Std.)
	499288	1	Piston Assy. (.010” O.S.)
	499292	1	Piston Assy. (.020” O.S.)
	499296	1	Piston Assy. (.030” O.S.)
26	495854	1	Ring Set–Piston (Std.)
	495852	1	Ring Set–Piston (.010” O.S.)
	495852	1	Ring Set–Piston (.020” O.S.)
	495855	1	Ring Set–Piston (.030” O.S.)
27	263129	1	Lock–Piston Pin
28	498319	1	Pin Assy.–Piston (Standard)
	498320	1	Pin Assy.–Piston (.005” O.S.)
29	490348	1	Rod Assembly–Connecting
	490469	1	Rod–Connecting (020” U.S. Crankpin Bore)
32	95017	1	Screw–Connecting Rod
33	262246	1	Valve–Exhaust
34	262247	1	Valve–Intake
35	65906	1	Spring–Intake Valve
36	26828	1	Spring–Exhaust Valve
40	221596	1	Retainer–Intake Valve
41	292260	1	Retainer–Exhaust Valve
42	494553	1	Keeper–Valve
45	262248	1	Tappet–Valve

★ Included in Gasket Set–Part No. 494241.



★ **REQUIRES SPECIAL TOOLS TO INSTALL. SEE REPAIR INSTRUCTION MANUAL.** Assemblies include all parts shown in frames.

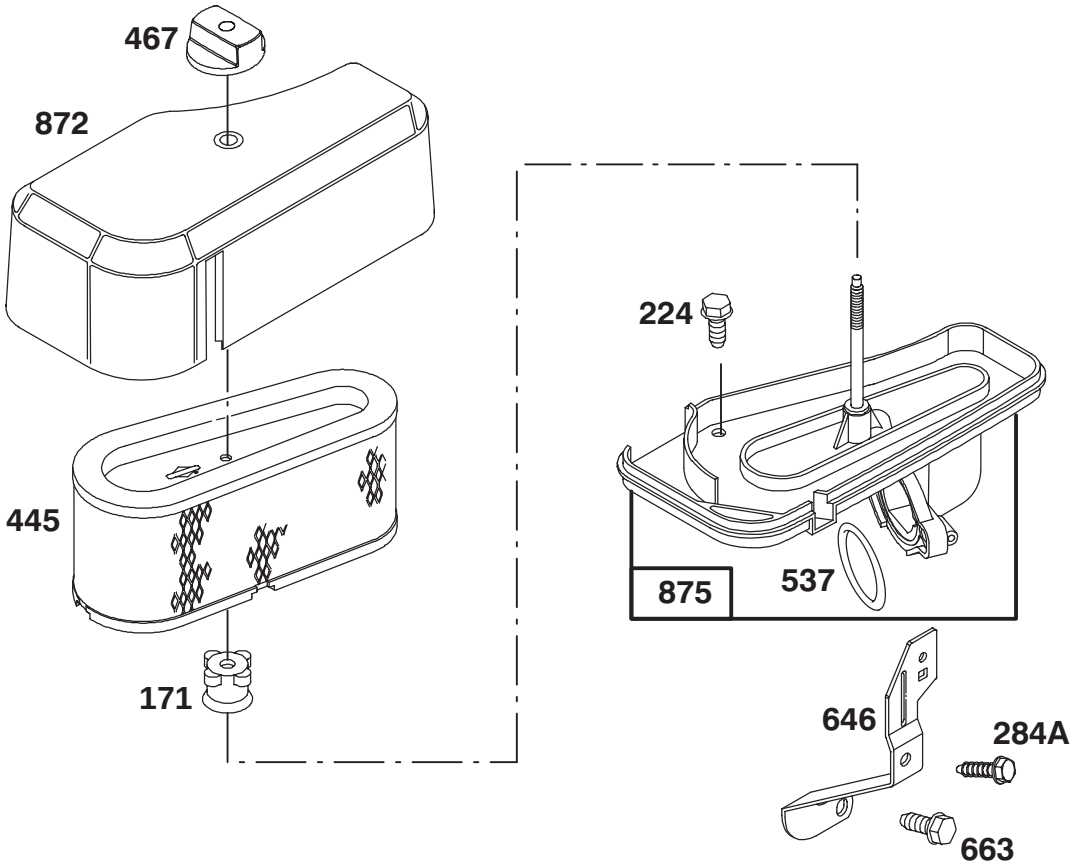
Sheet No.:

Engine Briggs & Stratton Model 284707–1148–E1

Ref. No.	Part No.	Qty.	Description
50	213819	1	Manifold–Intake
●◆51	272465	1	Gasket–Carburetor (Carb. to Manifold)
†★51A	272554	1	Gasket–Carburetor (Manifold to Cylinder)
53	94637	1	Stud–Carb. Mtg.
●93	281346	1	Bushing–Throttle Shaft
94	498030	1	Valve–Needle
●95	94098	1	Screw–Throttle
98	495800	1	Screw–Idle Speed
●104	231789	1	Pin–Float Hinge
●105	231855	1	Valve–Float Needle
●106	231854	1	Inlet Valve Seat
108	224558	1	Valve–Choke
108A	224540	1	Valve–Choke
123	94913	1	Screw–Elbow Mtg.
125	498027	1	Carburetor Assembly
●127		1	Plug–Welch (Sold in Kit Only)
130	224539	1	Valve–Throttle
131	494379	1	Shaft Kit–Throttle
133	494381	1	Float–Carburetor
●◆137	281165	1	Gasket–Float Bowl
●◆138	281164	1	Washer–Float Bowl Screw

Ref. No.	Part No.	Qty.	Description
141	495097	1	Shaft Kit–Choke (Manual)
141A	495931	1	Shaft Kit–Choke (Remote)
●142	497566	1	Nozzle–Carburetor (Standard)
	497567	1	Nozzle–Carburetor (High Alt.)
186	493496	1	Connector–Fuel
187	298049	1	Line–Fuel
240	394358	1	Filter–Fuel
601	93053	1	Clamp–Hose
●634	494453	1	Seal–Spring Assembly
●634A	494555	1	Seal–Spring Assembly
950	94642	1	Screw–Fuel Bowl
965	94010	1	Nut–Hex.
975	495933	1	Bowl–Float
●987	281166	1	Seal–Throttle Shaft
1091	281364	1	Cap–Limiter

★ Included in Gasket Set–Part No. 494241. † Included in Valve Overhaul Gasket Set–Part No. 498539.
◆ Included in Carburetor Gasket Set–Part No. 494385. ● Included in Carburetor Kit–Part No. 499220.



Sheet No.:

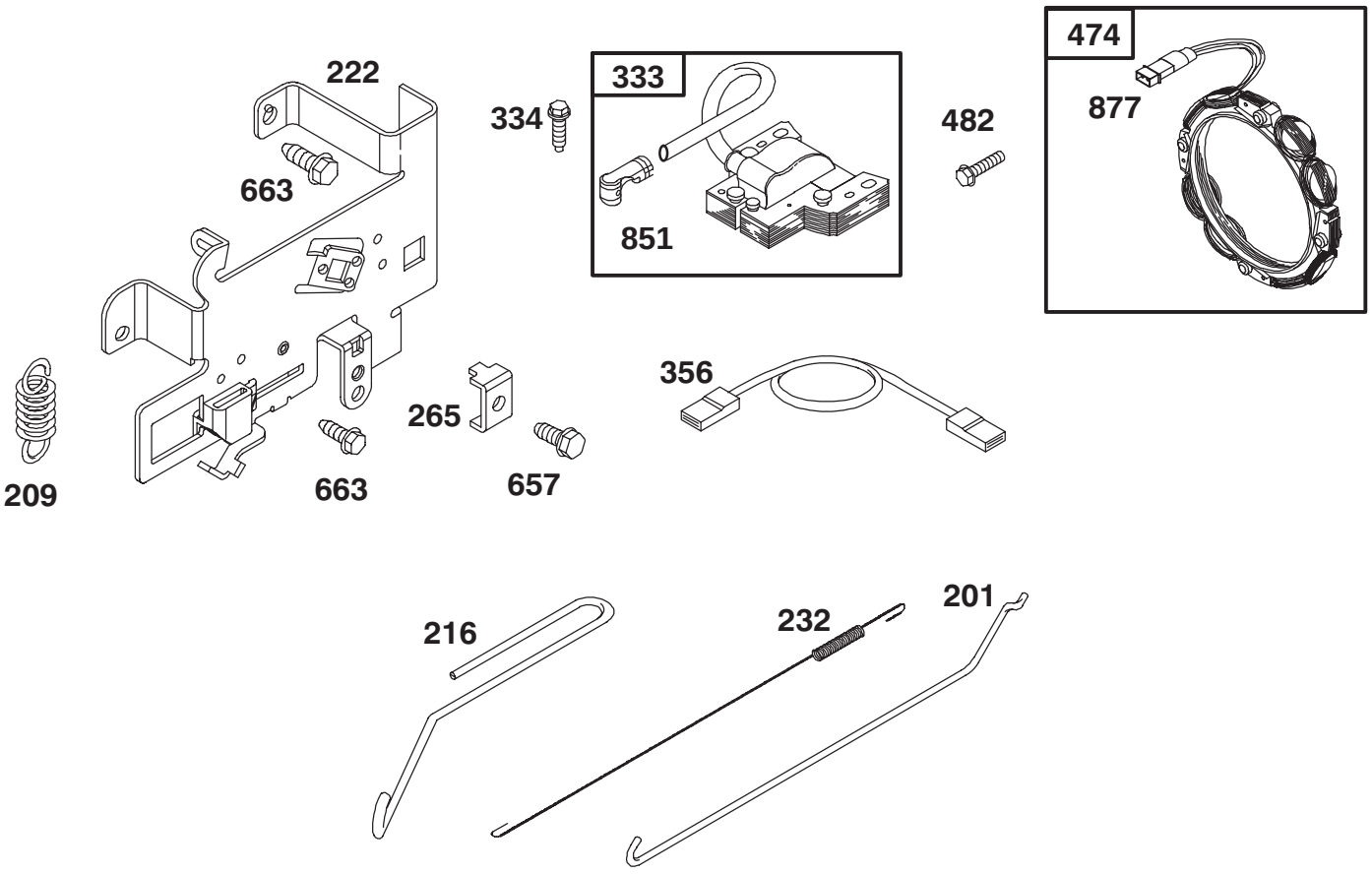
Assemblies include all parts shown in frames.

Engine Briggs & Stratton Model 284707–1148–E1

Ref. No.	Part No.	Qty.	Description
171	281051	1	Nut–Air Cleaner
224	94730	1	Screw–Hex. Head
284A	94704	1	Screw Hex. Head
445	496894	1	Filter–A/C Element
467	493903	1	Nut–Air Cleaner
†★537	281106	1	Gasket–Air Cleaner
646	224546	1	Brace–Air Cleaner
663	94929	1	Screw–Hex. Hd.
872	281104	1	Cover–Air Cleaner
875	494237	1	Base–Air Cleaner

Ref. No.	Part No.	Qty.	Description

★ Included in Gasket Set–Part No. 494241. † Included in Valve Overhaul Gasket Set–Part No. 498539.



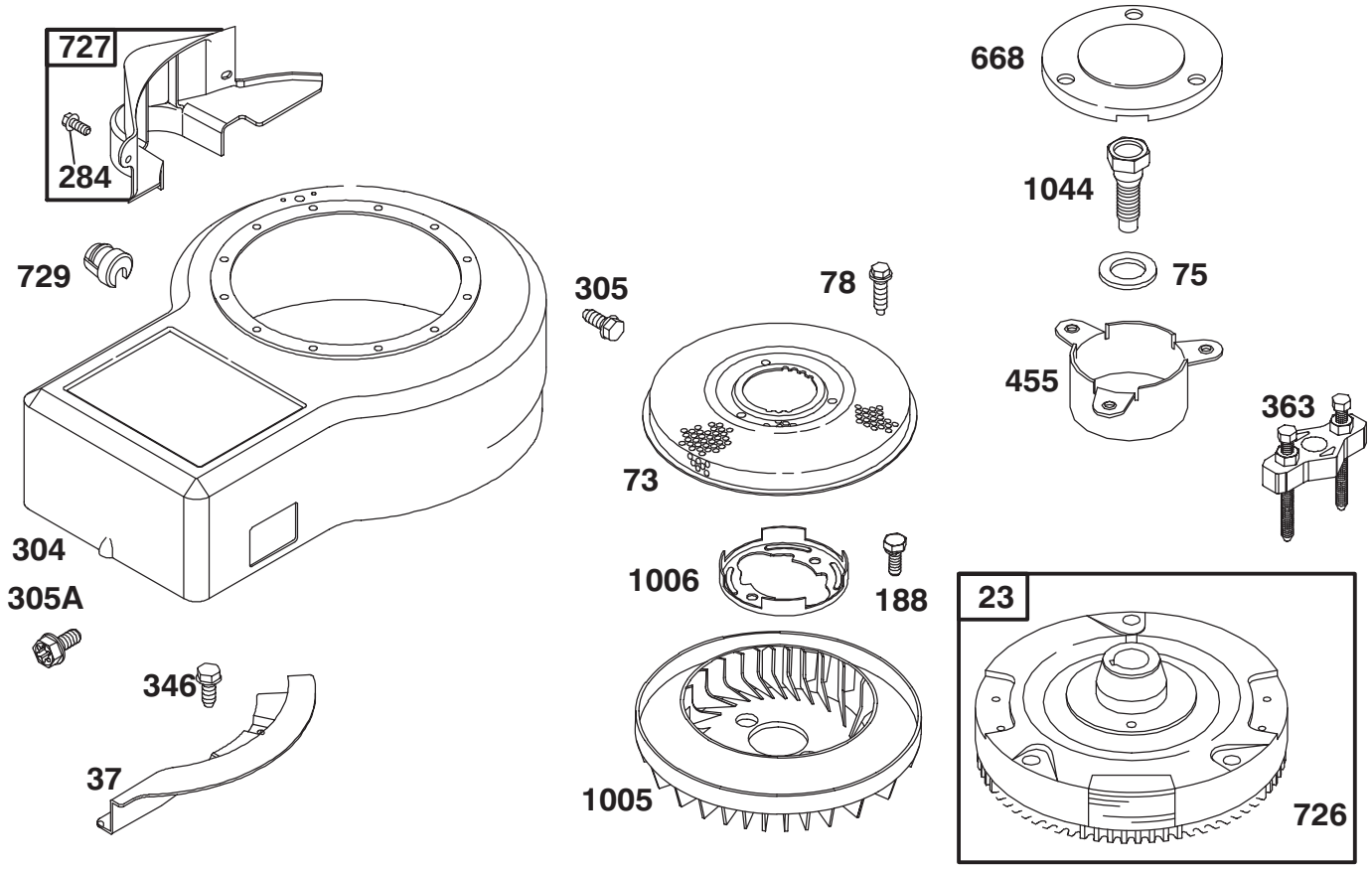
Assemblies include all parts shown in frames.

Sheet No.:

Engine Briggs & Stratton Model 284707–1148–E1

Ref. No.	Part No.	Qty.	Description
201	262767	1	Link–Governor
209	260871	1	Spring–Governor
216	262766	1	Link–Choke
222	495611	1	Bracket–Control
232	262785	1	Spring–Link
265	221535	1	Clamp–Casing
333	492341	1	Armature–Magneto
334	94731	1	Screw–Hex.
356	494328	1	Wire–Stop
474	393474	1	Alternator
482	93621	1	Screw–Sem
657	94906	1	Screw–Sem
663	94929	1	Screw–Hex. Head
851	493880	1	Terminal–Ignition Cable
877	393456	1	Wire–Alternator

Ref. No.	Part No.	Qty.	Description



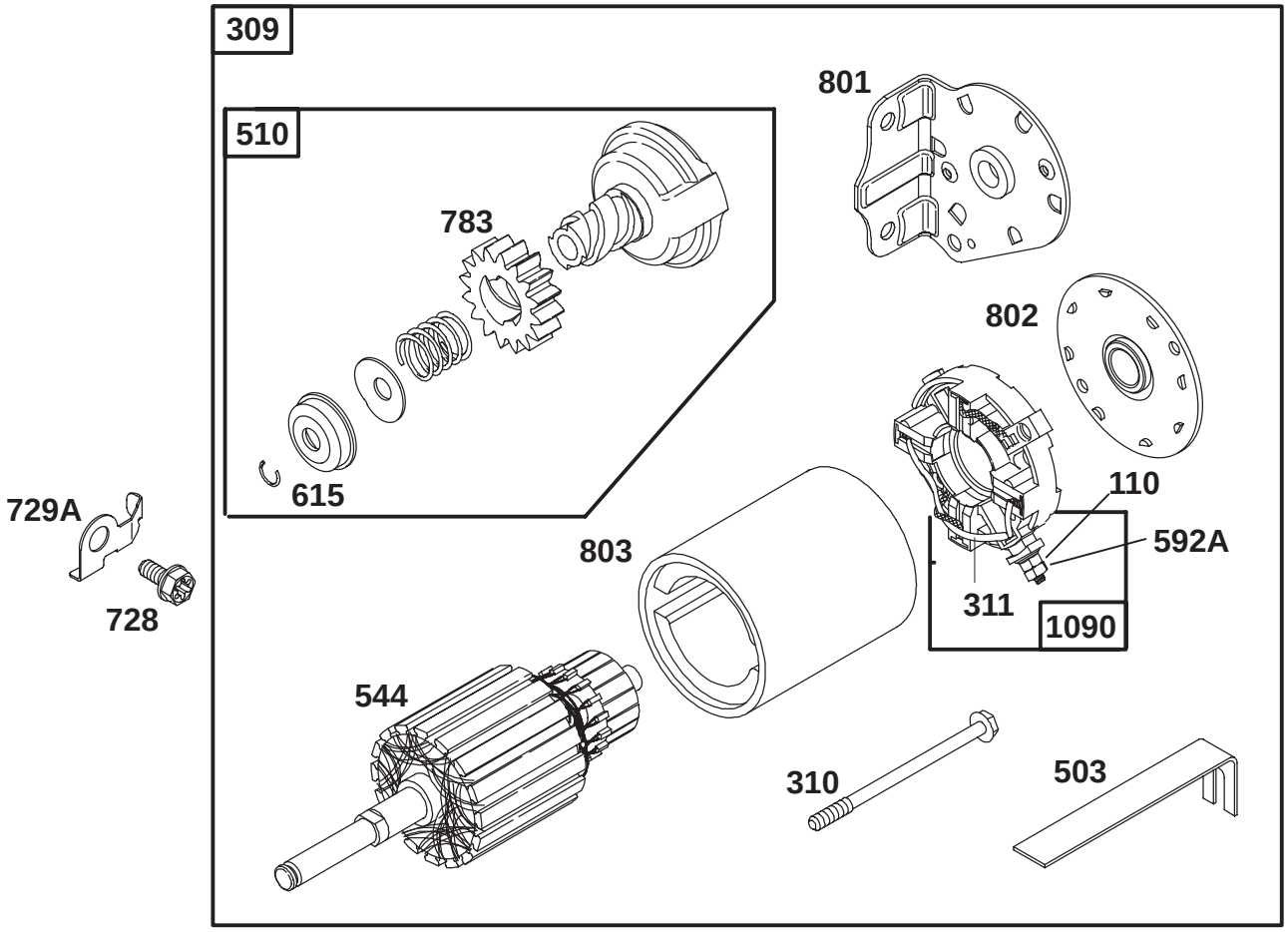
Assemblies include all parts shown in frames.

Sheet No.:

Engine Briggs & Stratton Model 284707–1148–E1

Ref. No.	Part No.	Qty.	Description
23	492326	1	Flywheel
37	224502	1	Guard–Flywheel
73	224517	1	Screen–Rotating
75	225136	1	Washer–Flywheel
78	94626	1	Screw–Phillips
188	94627	1	Screw–Sem
284	94903	1	Screw–Shoulder
304	496319	1	Housing–Blower
305	94786	1	Screw–Hex.
305A	94905	1	Screw–TorxRHex.
346	94896	1	Screw–Hex.
363	19203	1	Puller–Flywheel
455	222561	1	Cup–Flywheel
668	280848	1	Spacer
726	399676		Gear–Ring
		1	(Includes Mtg Hardware)
727	490324	1	Cover–Starter Drive
729	281159	1	Clip–Wire
1005	280687	1	Fan–Flywheel
1006	224413	1	Retainer–Fan
1044	94673	1	Screw–Shoulder

Ref. No.	Part No.	Qty.	Description



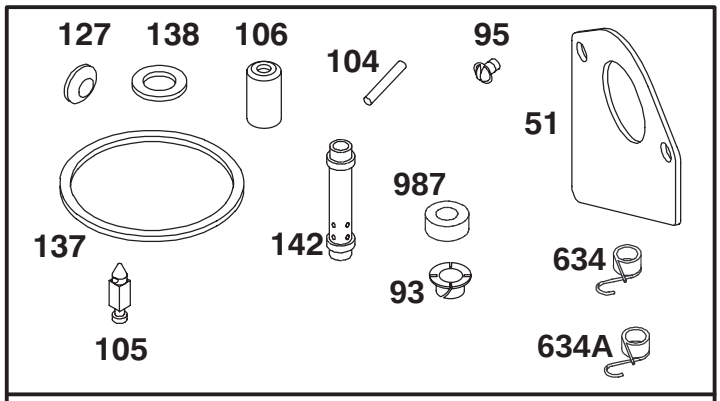
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Assemblies include all parts shown in frames.

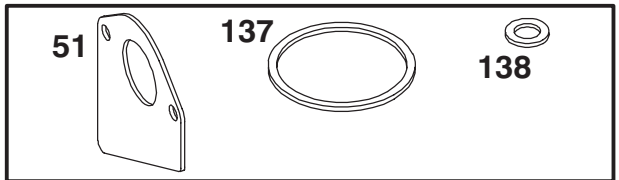
Engine Briggs & Stratton Model 284707–1148–E1

Ref. No.	Part No.	Qty.	Description
110	225137	1	Washer–Flat
309	497595	1	Motor–Starter
310	94003	1	Bolt–Thru
311	497608	1	Brush Set
503	806000	1	Strap–Starter
510	497606	1	Drive–Starter
544	497603	1	Armature–Starter
592A	92278	1	Nut–Hex.
615	263080	1	Ring–Retaining
728	94951	1	Screw–TorxR
729A	225170	1	Clip–Wire
783	280104	1	Gear–Starter
801	394856	1	Cap–Drive
802	497607	1	Cap–End
803	497604	1	Housing–Starter
1090	497605	1	Retainer–Brush

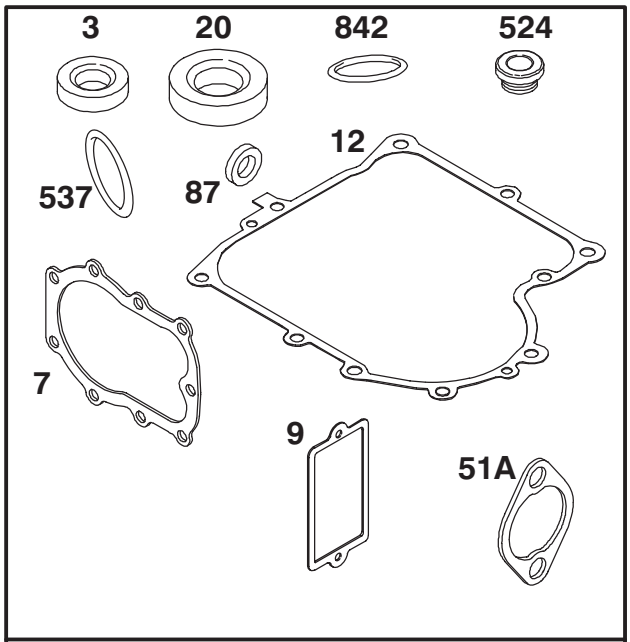
Ref. No.	Part No.	Qty.	Description



121 CARBURETOR KIT



977 CARBURETOR GASKET SET



358 GASKET SET

1095 VALVE OVERHAUL GASKET SET



Assemblies include all parts shown in frames.

Sheet No.:

Engine Briggs & Stratton Model 284707–1148–E1

Ref. No.	Part No.	Qty.	Description
★3	391086	1	Seal–Oil
★†7	271866	1	Gasket–Cylinder Head
★†9	27803	1	Gasket–Valve Cover
★12	271916	1	Gasket–Crankcase (.015” Thick)
★	271997	1	Gasket–Crankcase (.005” Thick)
★	271996	1	Gasket–Crankcase (.009” Thick)
★20	291675	1	Seal–Oil
◆●51	272465	1	Gasket–Carburetor (Carb. to Manifold)
★†51A	272554	1	Gasket–Carburetor (Manifold to Cylinder)
★87	491323	1	Seal–Governor Shaft
●93	281346	1	Bushing–Throttle Shaft
●95	94098	1	Screw–Throttle
●104	231789	1	Pin–Float Hinge
●105	231855	1	Valve–Float Needle
●106	231854	1	Seat–Inlet
121	499220	1	Carburetor Kit
●127		1	Plug–Welch (Sold in Kit Only)
◆●137	281165	1	Gasket–Float Bowl
◆●138	281164	1	Washer–Float Bowl Screw
●142	497566	1	Nozzle–Carburetor
358	494241	1	Gasket Set
★524	281370	1	Seal–Fill Tube
★†537	281106	1	Gasket–Air Cleaner
●634	494453	1	Seal–Spring Assembly
●634A	494555	1	Seal–Spring Assembly
★842	270920	1	Seal–O–Ring
977	494385	1	Carburetor Gasket Set
●987	281166	1	Seal–Throttle Shaft
1095	498539	1	Gasket Set–Valve Overhaul

★ Included in Gasket Set–Part No. 494241. † Included in Valve Overhaul Gasket Set–Part No. 498539.
◆ Included in Carburetor Gasket Set–Part No. 494385. ● Included in Carburetor Kit–Part No. 499220.

Maintenance Record

Date								

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TORO®