



16-38HXL, 16-38HXLE

Lawn Tractor

Model No. 71227-21000001 and Up

Model No. 71242-21000001 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
Frame & Body Assembly	3	38" Deck Blade Drive & Braking Assembly	16
Hood & Tower Assembly	4	38" Deck Engagement Assembly	17
Rear Body & Seat Assembly	5	Height of Cut Assembly	18
Steering Assembly	6-7	Electrical Assembly	19
Fixed Steering Assembly	8	Housing & Bearing Assembly	20
OHV Engine System Assembly	9	Gear Assembly	21
Traction Clutching Assembly	10	Axle Assembly	22
Rear Wheel & Tire Assembly	11	Wiring Schematic	23
Hydro Transaxle Assembly	12	Engine Briggs & Stratton	
Hydro Transaxle Controls Assembly	13	Model 28Q777-0690-E1	24-32
38" Deck Assembly	14	Maintenance	33-35
38" Deck Assembly	15		

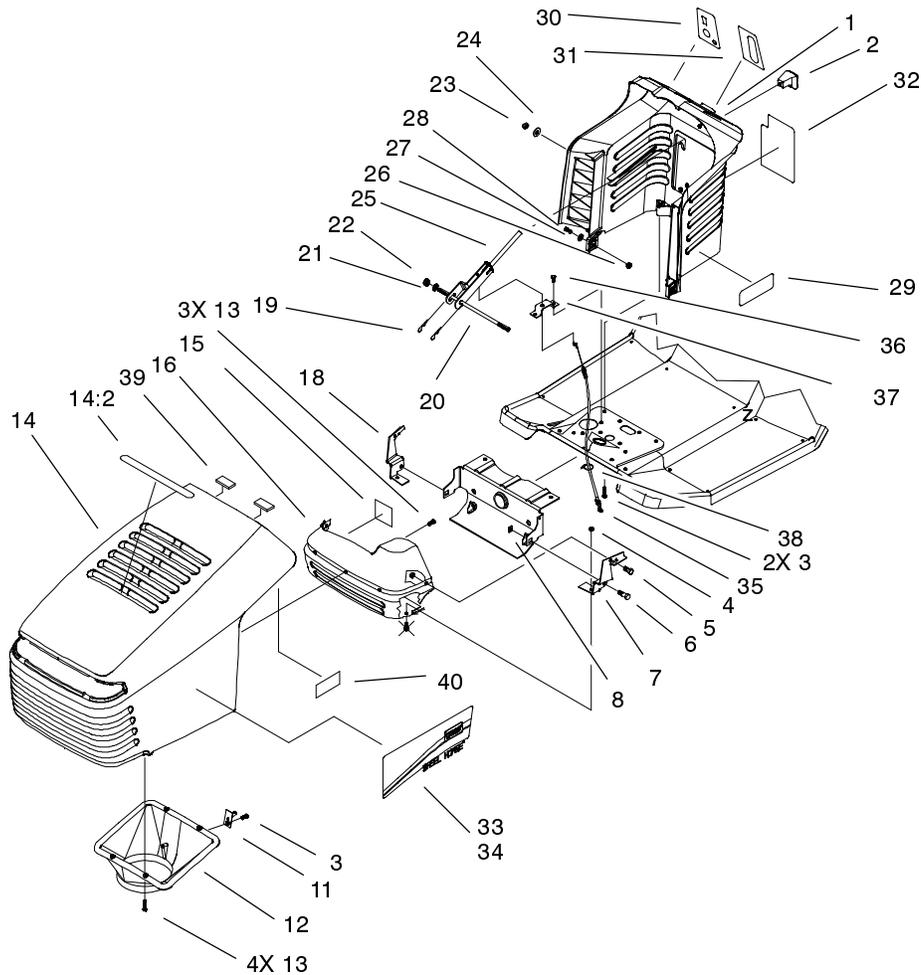
Accessories

Description	Model / Part No.	Description	Model / Part No.
Easy Empty Bagging Kit	Model No. 79116	Headlight Kit (Std. both models) .	Model No. 79180
Easy Empty Bagging Kit	Model No. 79117	42" (106.7cm) Snowblade Kit ...	Model No. 79150
Recycler Kit (Std. both models) .	Model No. 79170	Wheel Weight Kit	Model No. 59159
Hi-Sail Bagging Blade (Std. on model 71242)		Anti Scalp Kit (Std. model 71242)	
(Optional on model 71227)	Part No. 57-4700	(Optional model 71227)	Model No. 79182
Tire Chains	Part No. 11-0430		

Part Description Abbreviations

Part descriptions in this catalog may include the following abbreviations.

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

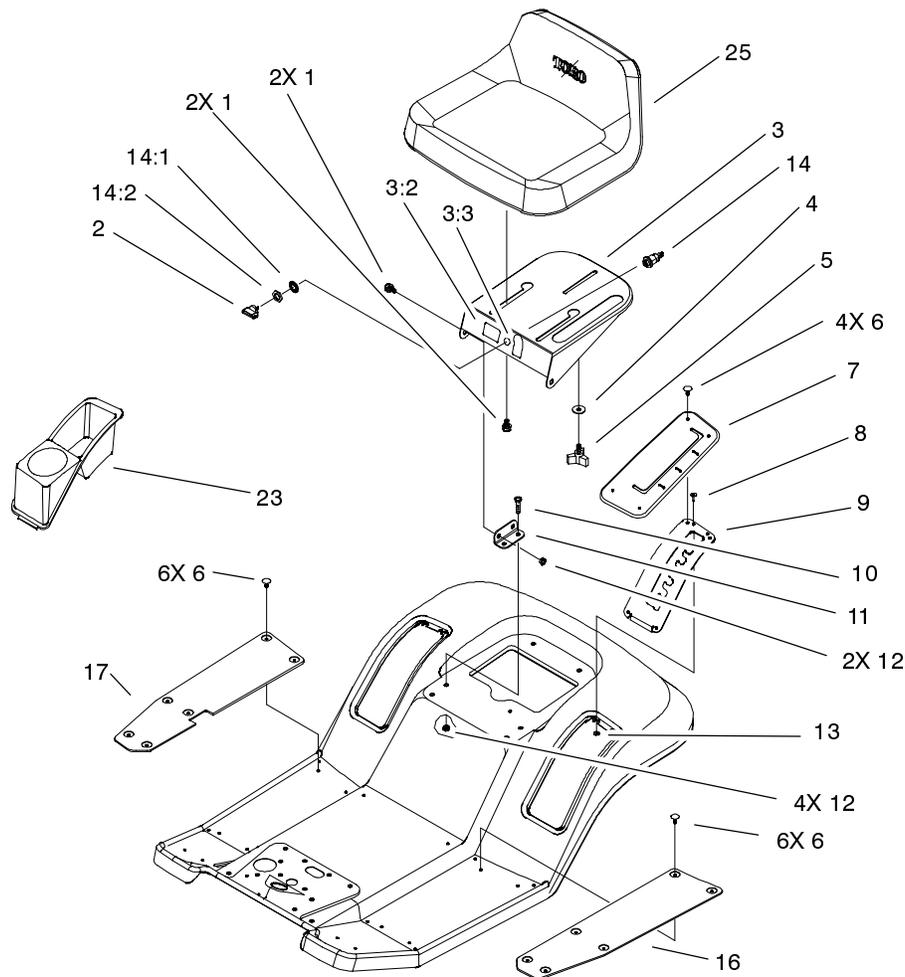


Sheet No.:3

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	93-3891	1	Duct - Hood Air
13	46-8090	7	Screw-Plastite
14	93-3819	1	Hood-W/Decal Toro
14:2	92-5748	1	Decal-Air Duct Toro
15	92-5782	3	Foil Tape
16	93-3864-03	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
28	322-3	2	Screw-HH

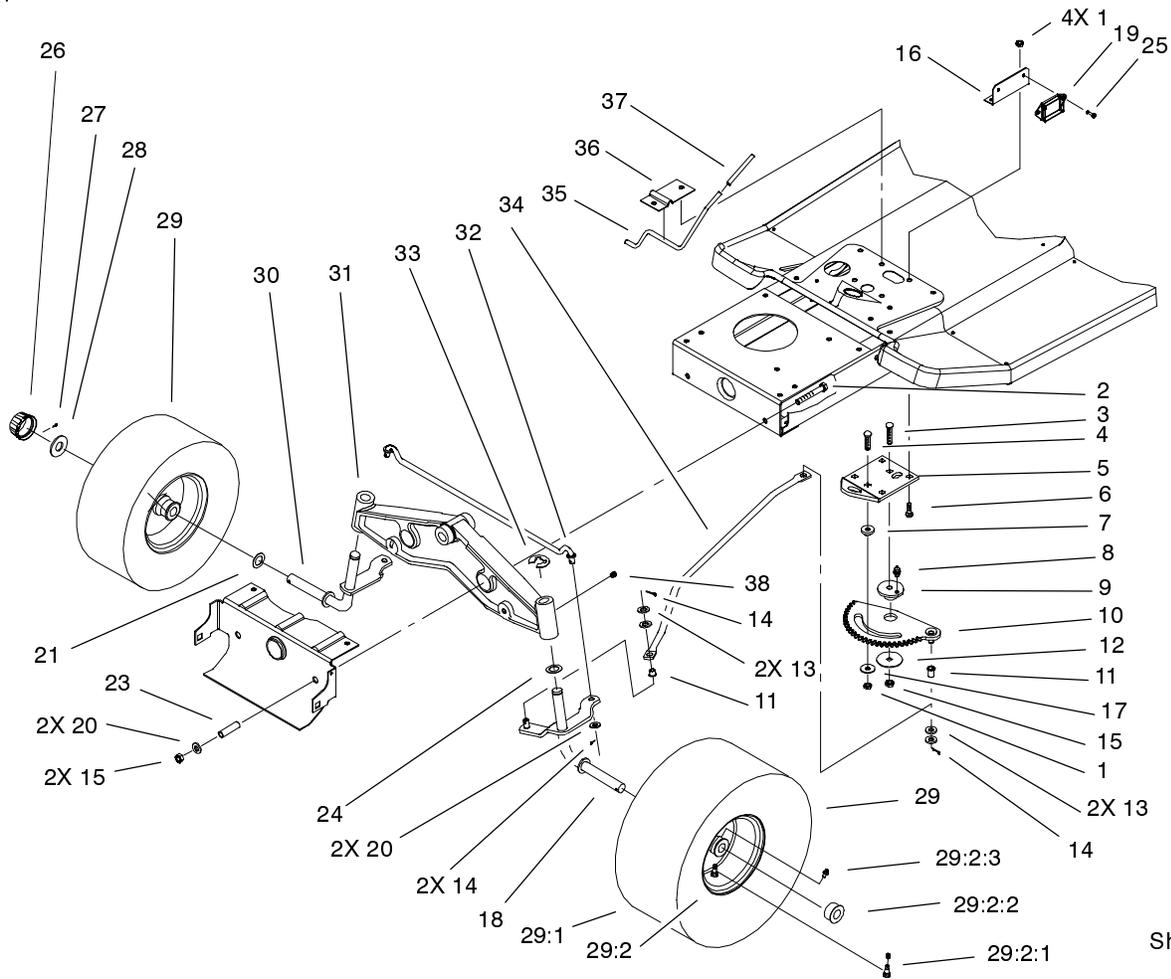
Ref. No.	Part No.	Qty.	Description
29	100-6248	2	Decal-1638 Hxl
30	99-8139	1	Decal-Ignition/Lights (only on: 71227)
30	99-8141	1	Decal-Ignition/Lights (only on: 71242)
31	92-5730	1	Decal - Throttle (only on: 71242)
31	92-2461	1	Decal - Throttle (only on: 71227)
32	93-6673	1	Decal - Deck Engage (only on: 71242)
32	92-2462	1	Decal - Deck Engage (only on: 71227)
33	95-0808	1	Decal - Hood Left
34	95-0807	1	Decal - Hood Right
35	99-6837	1	Cable ASM-Deck, 38"
36	9266714	2	Screw-HWH
37	93-3849	1	Brkt-Upper Cable
38	614249	1	Tie-Strap
39	94-1980	2	Foam - Hood
40	104-4150	1	Decal-Service, 71227 (only on: 71227)



Sheet No.:4

Rear Body & Seat Assembly

Ref. No.	Part No.	Qty.	Description	Ref. No.	Part No.	Qty.	Description
1	37-8770	4	Bolt-Shoulder	13	3269-26	2	Washer-Flat
2	63-8360	1	Key-Ignition	14	46-5780	1	Switch-Starter
3	99-5831	1	Support ASM-Seat (only on: 71242)	14:1	3254-5	1	Washer-Lock, Internal
3	99-5830	1	Support ASM-Seat (only on: 71227)	14:2	218-461	1	Nut-HH
3:2	99-2986	1	Decal-Danger (only on: 71242)	16	88-5240	1	Mat-LH Foot
3:2	99-2985	1	Decal-Danger (only on: 71227)	17	88-5230	1	RH Foot Mat Hydro
3:3	99-5339	1	Decal (only on: 71227)	23	88-4990	1	Tray - Fender
3:3	99-5340	1	Decal-Switch (only on: 71242)	25	88-3950	1	Seat - Medium Back
4	5-4460	1	Washer-Pivot				
5	92-9674	1	Knob				
6	3290-479	16	Fastener-Panel				
7	93-7657	1	Cover - HOC, Intl (only on: 71242)				
7	88-5170	1	Cover - HOC (only on: 71227)				
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	6	Nut-Lock				



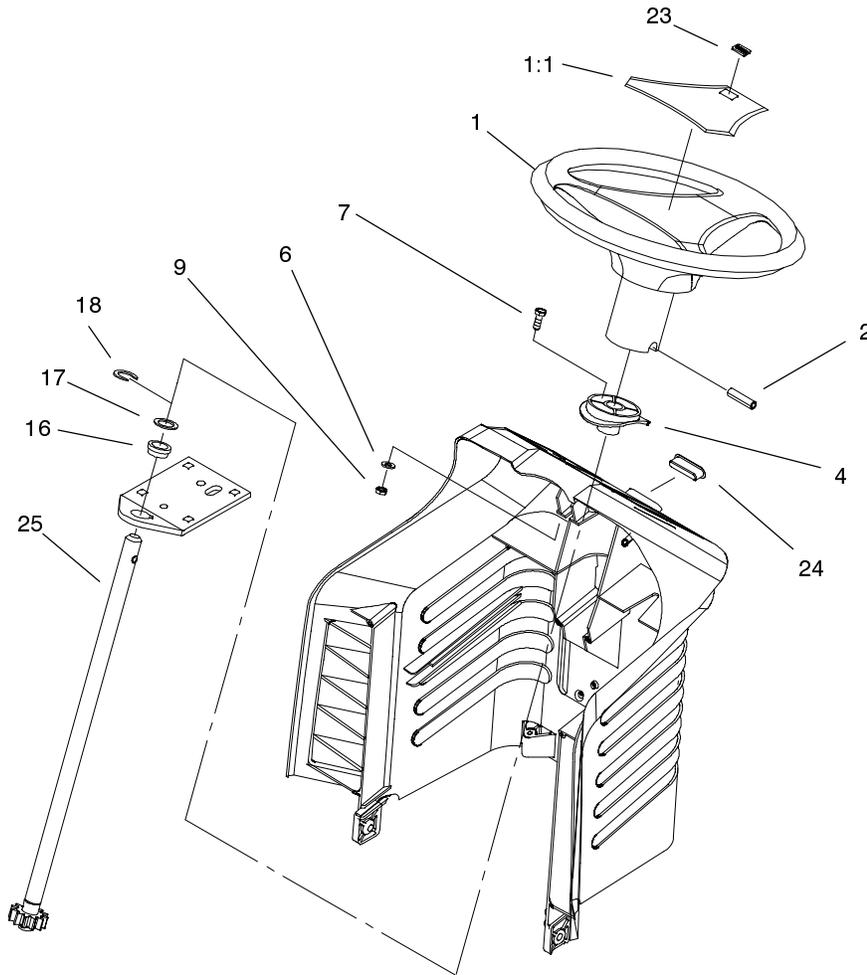
Sheet No.:5

Steering 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	2	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, 15\"/>

☆ Not serviced
* Not illustrated

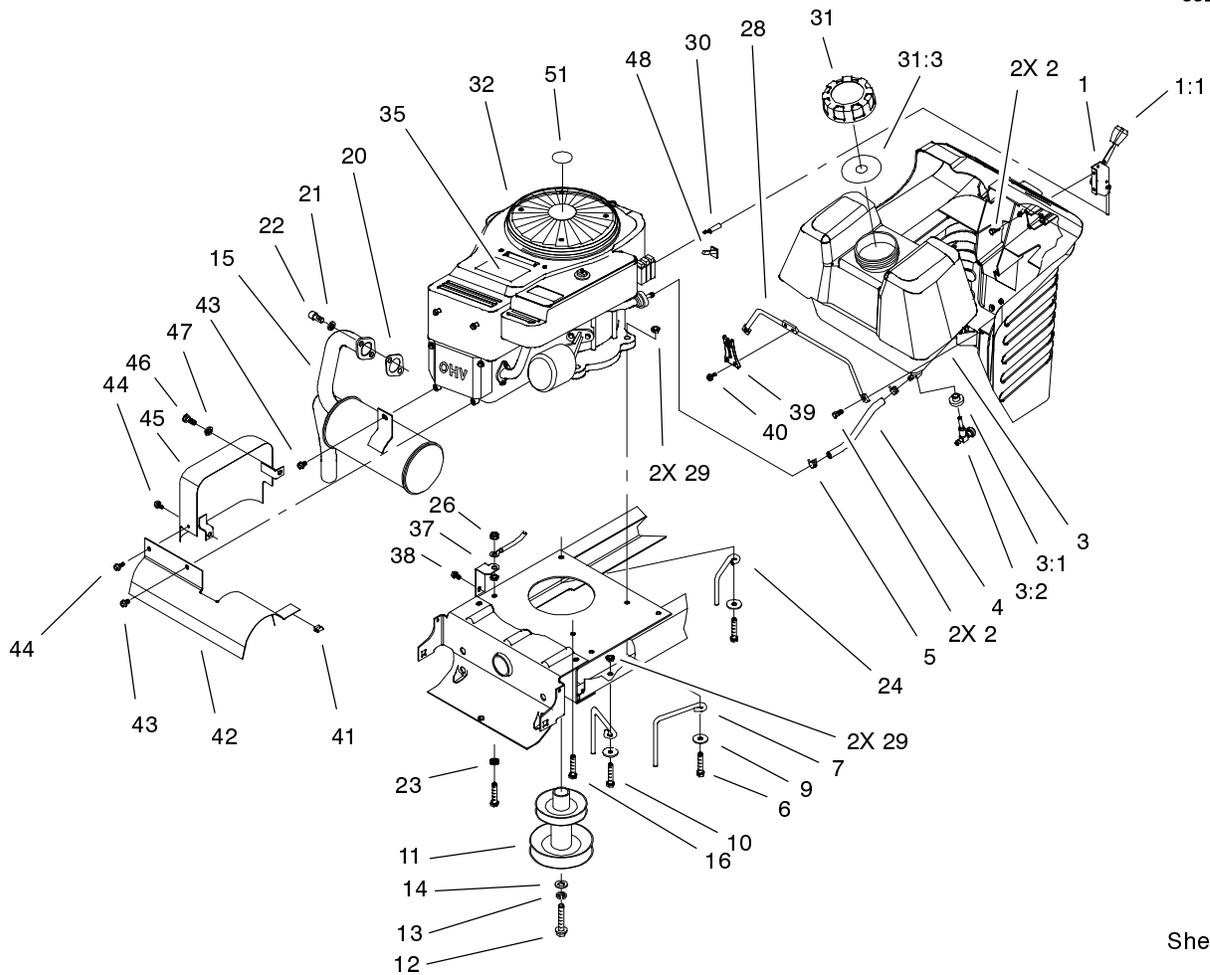


Sheet No.:7

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

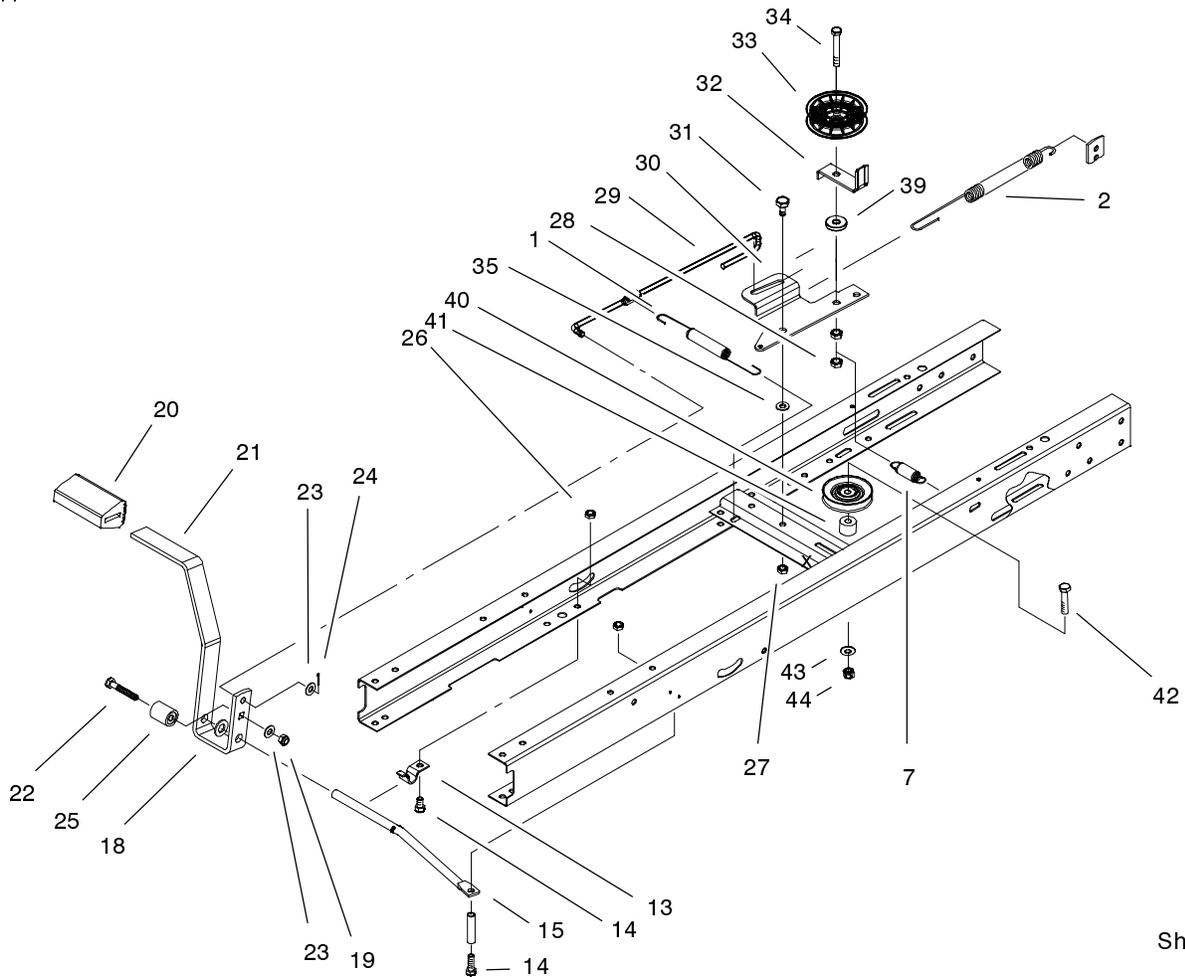


Sheet No.:8

OHV Engine System Assembly

Ref. No.	Part No.	Qty.	Description	Ref. No.	Part No.	Qty.	Description
1	88-4340	1	Control-Throttle	30	88-4350	1	Cable-Throttle
1:1	66-0120	1	Knob	31	88-3980	1	Gas Cap ASM
2	27-0220	4	Screw-Special	31:3	88-4010	1	Gasket-Cap, Gas
3	88-3880	1	Gas Tank ASM	☆32		1	Engine-15.5 HP Intec Briggs & Stratton Model 28q777-0690-E1
3:1	104047	1	Bushing	35	100-6249	1	Decal - Engine
3:2	104048	1	Valve-Fuel	37	93-3809	1	Bracket- Ground
4	47-2963	1	Hose-Gas	38	9266714	1	Screw-HWH
5	2412-98	2	Clamp	39	94-1951	1	Latch - Hood
6	322-9	3	Screw-HH	40	32144-112	2	Screw-Hex Washer Hd Thr'd Form
7	93-3854	3	Guide - Belt Engine	41	93-3882	1	Clip - Tinnerman, U
9	5-4460	4	Washer-Pivot	42	93-3880-03	1	Shield-Muffler
10	322-5	2	Screw-HH	43	9266714	2	Screw-HWH
11	94-1963	1	Pulley-Engine ASM	44	32104-76	2	Screw
12	62-3760	1	Screw-HH	45	93-8450-03	1	Wa - Exhaust Shield
13	3253-22	1	Washer-Lock	46	322-3	1	Screw-HH
14	3256-25	1	Washer-Flat	47	3253-4	1	Washer-Lock
15	94-1953	1	Muffler - Exhaust	48	88-4490	1	Reducer-Throttle Rpm (only on: 71242)
16	9267154	1	Screw	51	99-6842	1	Decal-Logo
20	88-4410	1	Gasket-Muffler				
21	3253-4	2	Washer-Lock				
22	3274-10	2	Screw-HSH				
23	3255-8	1	Washer-Lock/Ext				
24	93-3855	1	Guide - Belt RH				
26	32149-1	2	Nut				
28	94-1952	1	Rod - Gas Tank				
29	3296-29	4	Nut-Lock				

☆ Not serviced



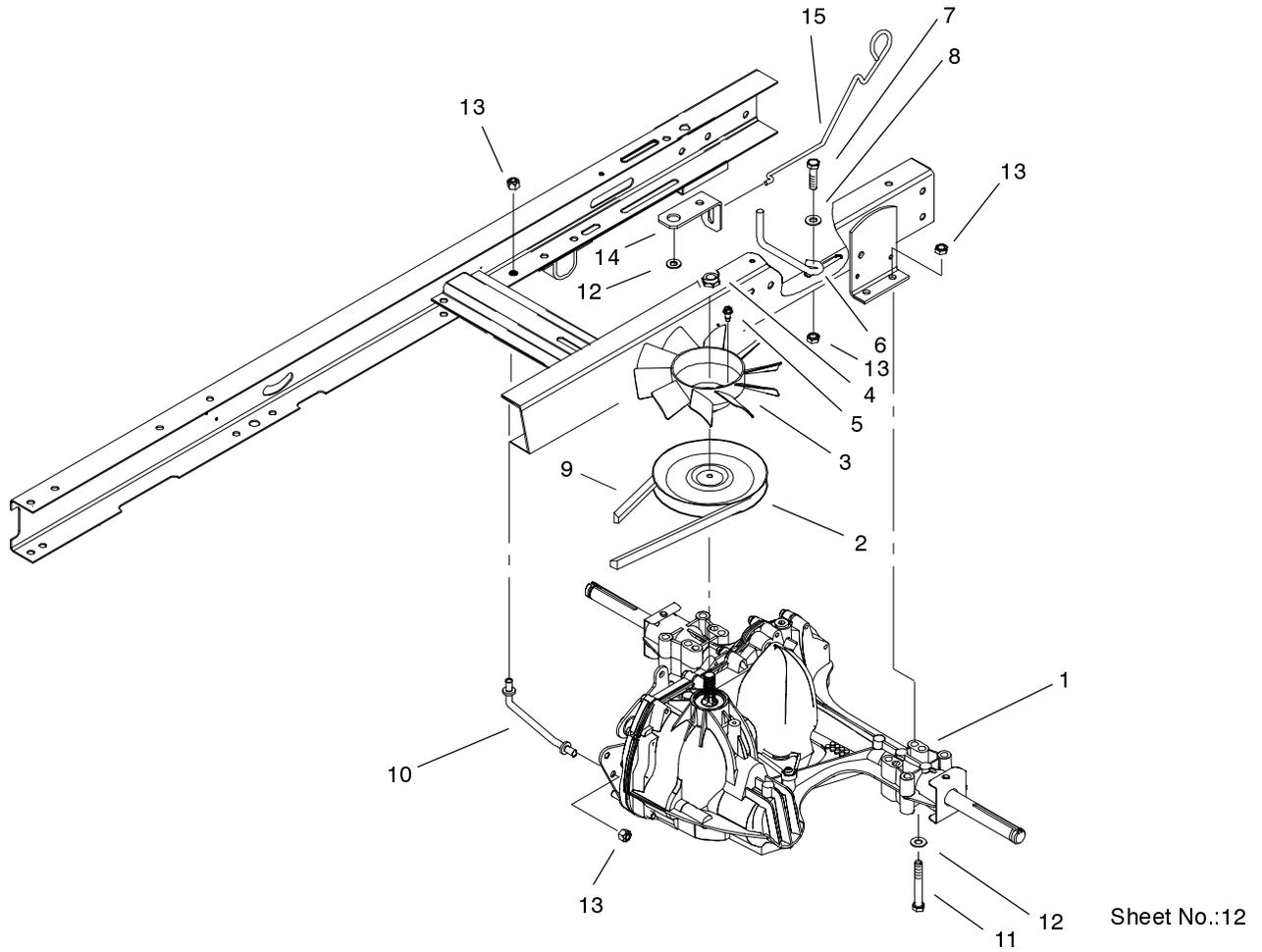
Sheet No.:9

Traction Clutching Assembly

Ref. No.	Part No.	Qty.	Description
1	27-8890	1	Spring-Return
2	100-7422	1	Spring-Brake
7	88-6330	1	Spring - Extension
13	88-4810	1	Clamp-Shift Pivot
14	322-3	2	Screw-HH
15	88-5500	1	Rod-Pedal Pivot
18	3256-26	1	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	2	Nut-Lock
27	3296-29	1	Nut-Lock
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	323-11	1	Screw-HH
35	5-4460	1	Washer-Pivot
39	92-4890	1	Washer - Wheel
40	92-7102	1	Pulley - Idler

Ref. No.	Part No.	Qty.	Description
41	92-5791	1	Spacer
42	323-10	1	Screw-HH
43	3256-3	1	Washer-Flat
44	3296-39	1	Nut-Lock, NI

PROTOTYPE



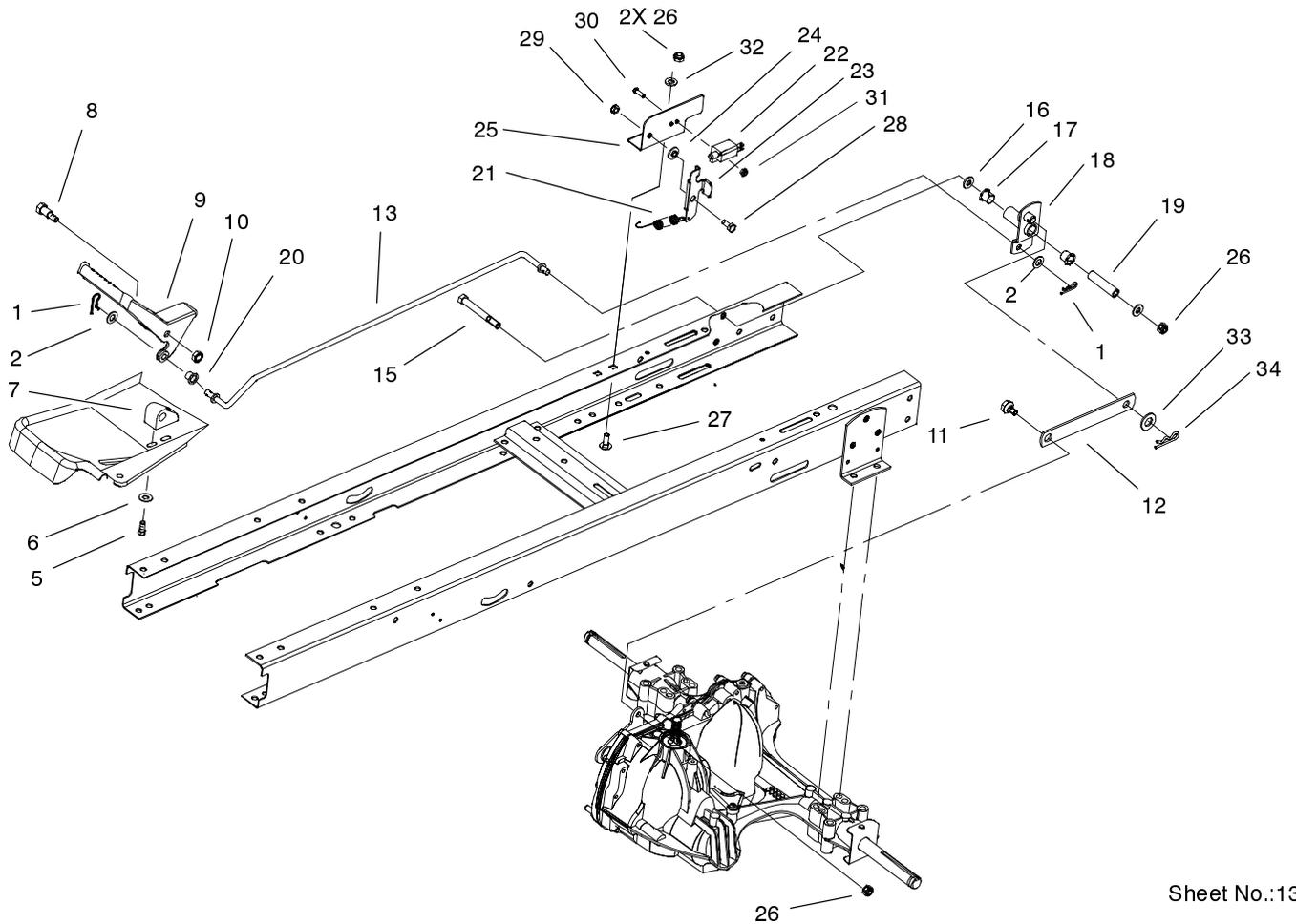
Sheet No.:12

Hydro Transaxle Assembly

Ref. No.	Part No.	Qty.	Description
1	104-1760	1	ASM-Transaxle
2	104-1754	1	Pulley-4.5"
3	104-2162	1	Fan
4	3296-28	1	Nut-Lock NI
5	9134304	3	Screw
6	93-3868	1	Guide - Transmission Belt
7	322-5	1	Screw-HH
8	5-4460	1	Washer-Pivot
9	88-6280	1	V-Belt
10	100-6225	1	Strap-Torque
11	322-13	4	Screw-HH
12	3256-23	4	Washer-Flat
13	3296-29	7	Nut-Lock
14	100-7406	1	Bracket-Bypass
15	100-7407	1	Wire-Bypass

Ref. No.	Part No.	Qty.	Description

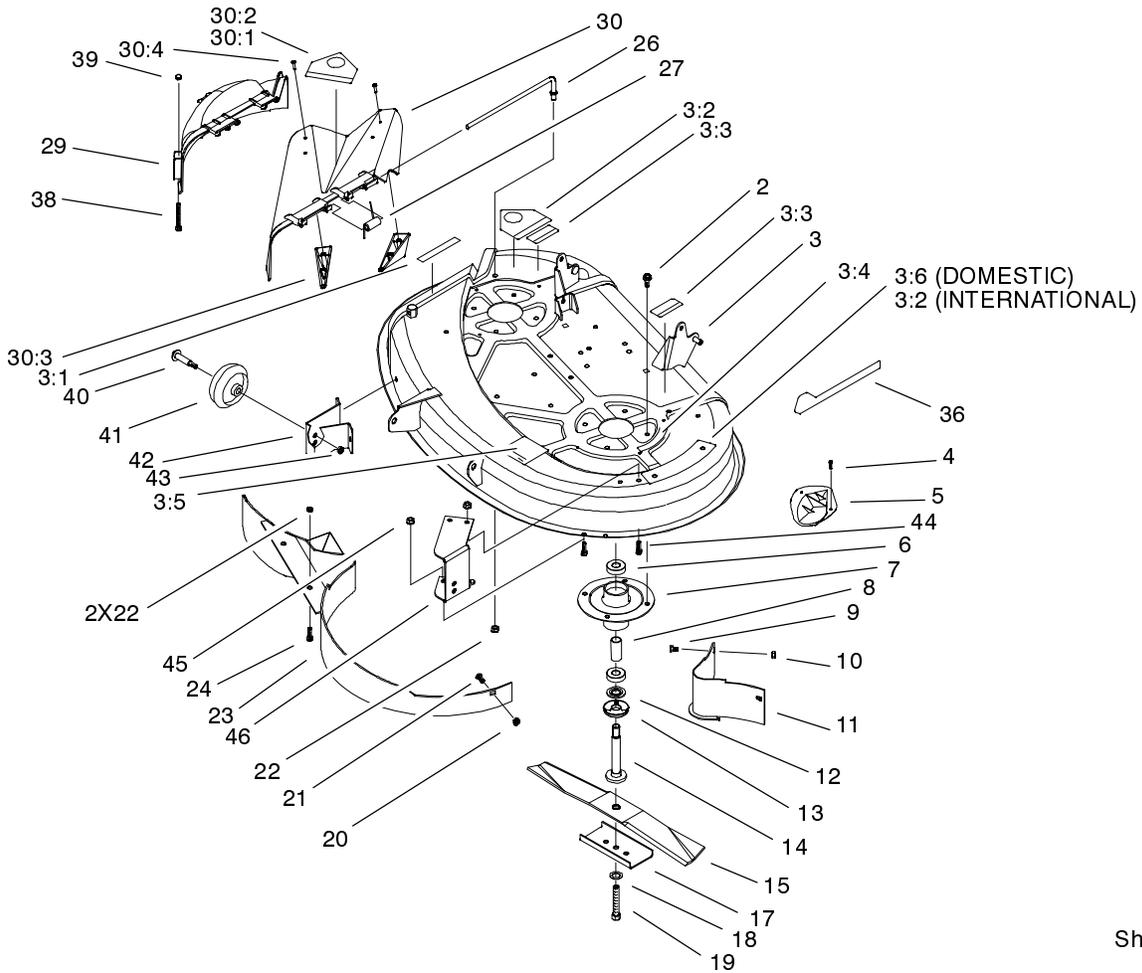
PROTOTYPE



Sheet No.:13

Hydro Transaxle Controls Assembly

Ref. No.	Part No.	Qty.	Description	Ref. No.	Part No.	Qty.	Description
1	3290-307	2	Pin-Hair	30	3290-392	2	Screw - HHF
2	3256-38	2	Washer-Flat	31	3296-1	2	Nut-Lock NI
5	46-8090	2	Screw-Plastite	32	3256-23	2	Washer-Flat
6	3256-22	2	Washer-Flat	33	3256-26	1	Washer-Flat
7	88-4690	1	Pivot Block	34	9335054	1	Pin-Hair
8	23-0310	1	Bolt-Shoulder				
9	99-6120-05	1	Pedal-Speed Control				
10	3296-59	1	Nut-Lock NI				
11	37-8770	1	Bolt-Shoulder				
12	99-6833	1	Link-Speed Control				
13	99-6839	1	Rod-Speed Control				
15	322-14	1	Screw-HH				
16	3256-2	2	Washer-Flat				
17	256-257	2	Flange-Nyliner				
18	99-6835-03	1	Pivot ASM				
19	99-6832	1	Spacer-Pivot				
20	99-6121	1	Bushing				
21	99-6805	1	Spring-Extension				
22	95-1653	1	Switch - Single Pole				
23	99-6807	1	Bracket - Pivot				
24	99-6808	1	Washer-Stepped				
25	99-6806	1	Bracket - Adjustment				
26	3296-29	4	Nut-Lock				
27	3230-18	2	Screw-CARR				
28	99-6810	1	Screw-Hex Hd				
29	3296-42	1	Nut-Lock NI				

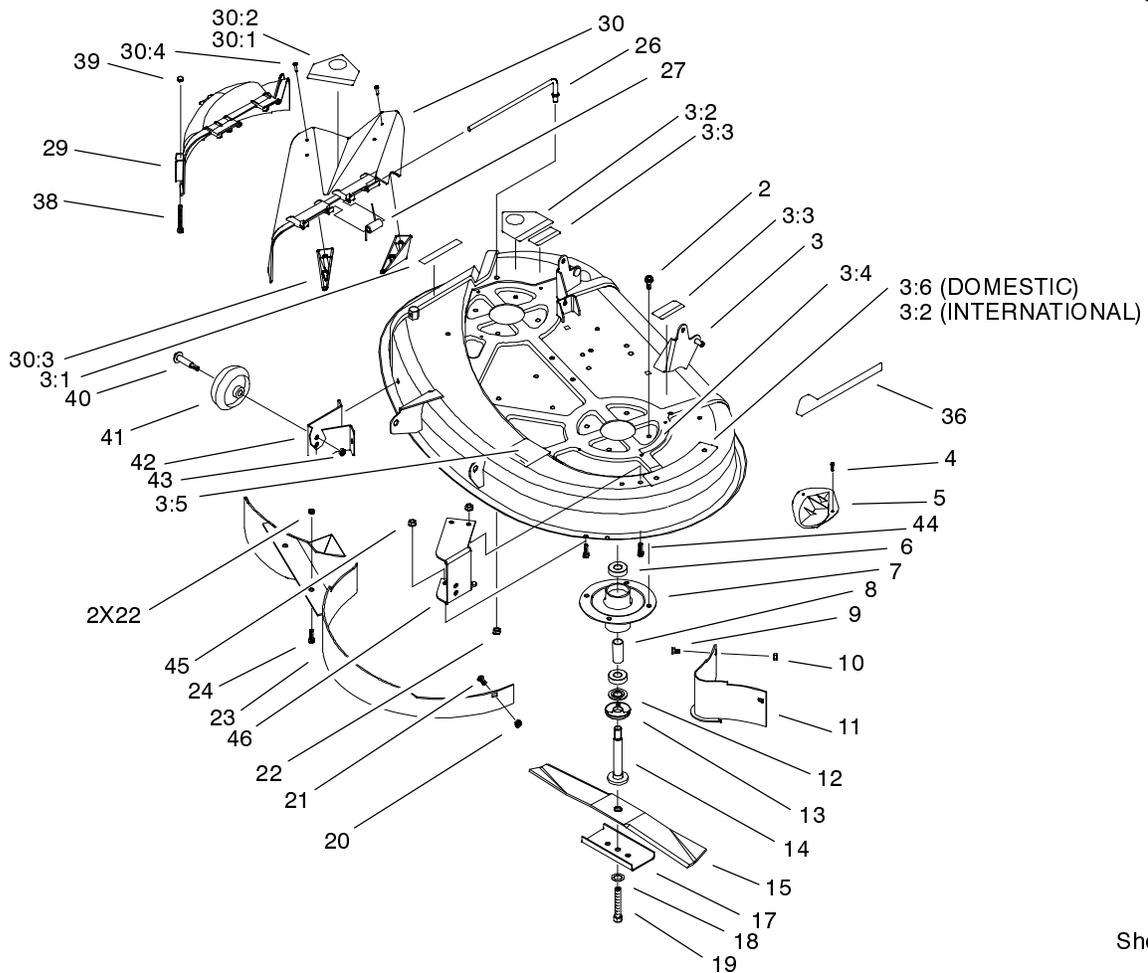


Sheet No.:16

38" Deck Assembly

Ref. No.	Part No.	Qty.	Description
2	32144-41	8	Screw-Taptite
3	99-5846	1	Deck ASM-Service (only on: 71227)
3	99-5847	1	Deck ASM-Service,Intl (only on: 71242)
3:1	93-7009	1	Decal-Danger (only on: 71242)
3:1	68-3650	1	Decal-Deflector Danger (only on: 71227)
3:2	93-7010	2	Decal - Danger (only on: 71242)
3:2	93-1122	1	Decal-Danger (only on: 71227)
3:3	93-6674	2	Decal - Warning (only on: 71242)
3:3	55-4300	2	Decal (only on: 71227)
3:4	93-6677	1	Decal - Shield Danger (only on: 71242)
3:4	68-3660	1	Decal-Shield Danger (only on: 71227)
3:5	93-6679	1	Decal-Belt Routing (only on: 71242)

Ref. No.	Part No.	Qty.	Description
3:5	93-6679	1	Decal-Belt Routing (only on: 71227)
3:6	79-3140	1	Decal-Danger (only on: 71227)
4	32144-111	8	Screw-PPH
5	76-2160	4	Plate-Kicker
6	38-7820	4	Bearing-Ball
7	88-4510	2	Spindle
8	62-3661	2	Spacer-Bearing
9	321-4	2	Screw-HH
10	3296-42	2	Nut-Lock NI
11	79-1640-03	1	Baffle Wa
12	80-4380	2	Spacer
13	80-4360	2	Shield-Bearing
14	80-4341	2	Spindle Shaft
15	79-3061	2	Blade-19.32 Rec
17	80-0510-03	2	Blade Stiffener
18	3290-465	2	Washer-Belleville
19	26-0671	2	Screw-Blade
20	3296-29	1	Nut-Lock
21	3230-1	1	Screw-CARR
22	3296-39	3	Nut-Lock, NI
23	79-1600-03	1	Baffle Wa
24	323-5	2	Screw-HH
26	95-1661	1	Rod - Pivot



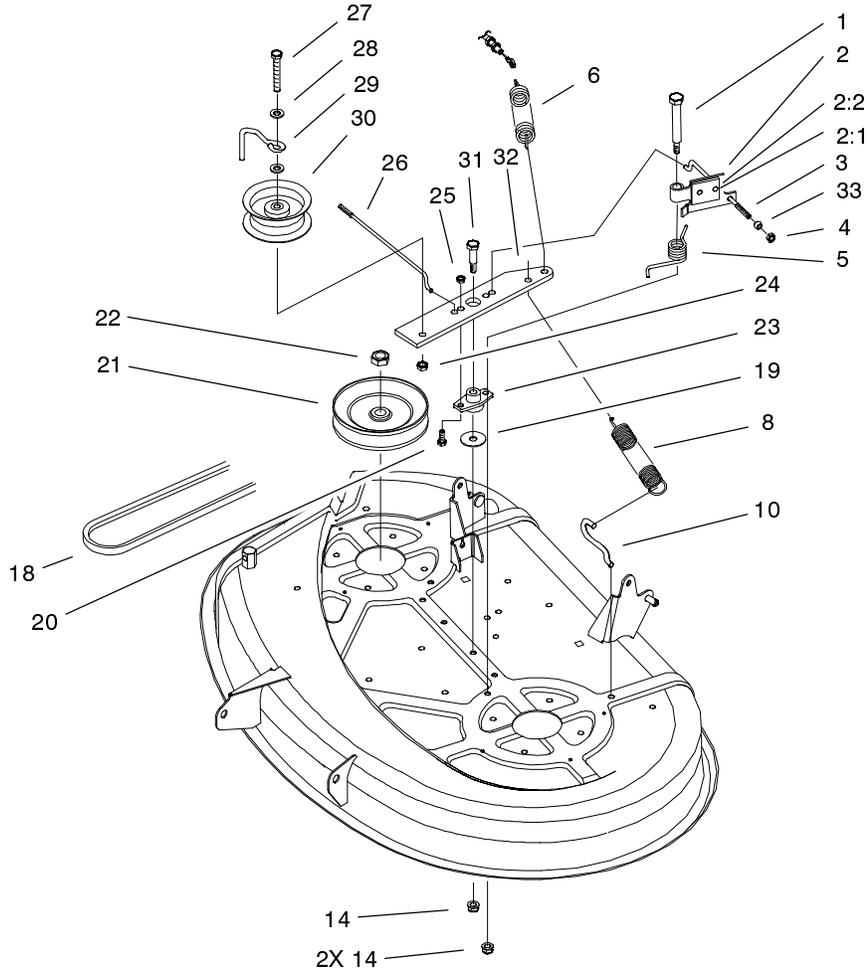
Sheet No.:16

38" Deck Assembly

Ref. No.	Part No.	Qty.	Description
27	57-6950	1	Spring
29	88-4430	1	Recycler Cover
30	93-0317	1	Deflector ASM - 38" (only on: 71227)
30	93-7695	1	Deflector ASM (only on: 71242)
30:1	93-7010	1	Decal - Danger (only on: 71242)
30:2	93-1122	1	Decal-Danger (only on: 71227)
30:3	93-7696	2	Kicker (only on: 71242)
30:4	93-0231	4	Screw - PPH (only on: 71242)
36	100-6203	1	Decal-Recycler 38"
38	321-15	2	Screw-HH
39	32111-7	2	Nut-Cap
40	56-6591	2	Bolt-Wheel (only on: 71242)
41	701756	2	Wheel-Gage (only on: 71242)
42	88-5740-03	1	RH Whl Deck Brkt (only on: 71242)
43	3296-39	2	Nut-Lock, NI (only on: 71242)

Ref. No.	Part No.	Qty.	Description
44	322-3	6	Screw-HH (only on: 71242)
45	3296-29	6	Nut-Lock (only on: 71242)
46	93-3896-03	1	Brkt,LH Deckwheel (only on: 71242)

PROTOTYPE



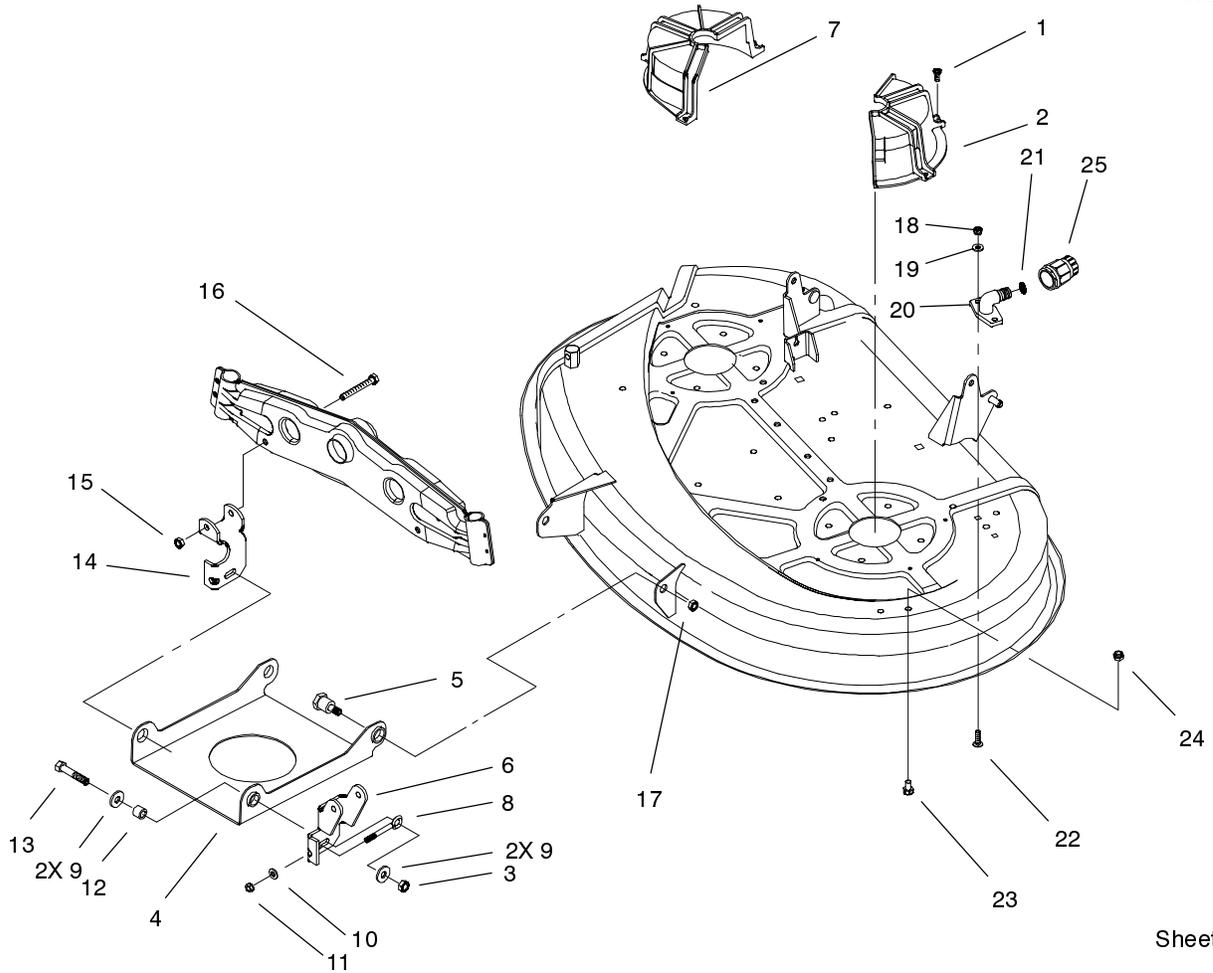
Sheet No.:17

38" Deck Blade Drive & Braking Assembly

Ref. No.	Part No.	Qty.	Description
1	88-4590	2	Bolt-Shoulder
2	88-6100	2	Brake ASM
2:1	3290-282	2	Rivet-Pop, Steel
2:2	56-9830	1	Pad-Brake
3	88-5550	1	LH Deck Brake Rod
4	3296-42	2	Nut-Lock NI
5	88-5910	2	Torsion Spring
6	88-6130	1	Spring-Deck Engagement
8	92-8934	1	Spring - Extension
10	88-5970	1	Hook Return Spring
14	3296-58	3	Nut-Lock NI
18	88-6250	1	V-Belt
19	3256-68	1	Washer-Flat
20	322-5	2	Screw-HH
21	88-5330	2	Pully-Deck
22	3219-6	2	Nut-Hex
23	88-4980	1	Bushing Idler Arm
24	3296-39	1	Nut-Lock, NI
25	3296-29	2	Nut-Lock
26	88-5540	1	RH Deck Brake Rod
27	323-12	1	Screw-HH
28	3256-24	2	Washer-Flat
29	88-5070	1	Guide-Idler, Belt
30	88-5630	1	Pulley-Idler, Flat
31	7-0030	1	Bolt-Shoulder

Ref. No.	Part No.	Qty.	Description
32	88-4870-03	1	Arm Idler Deck
33	67-0710	2	Ball-Swivel Stop

PROTOTYPE

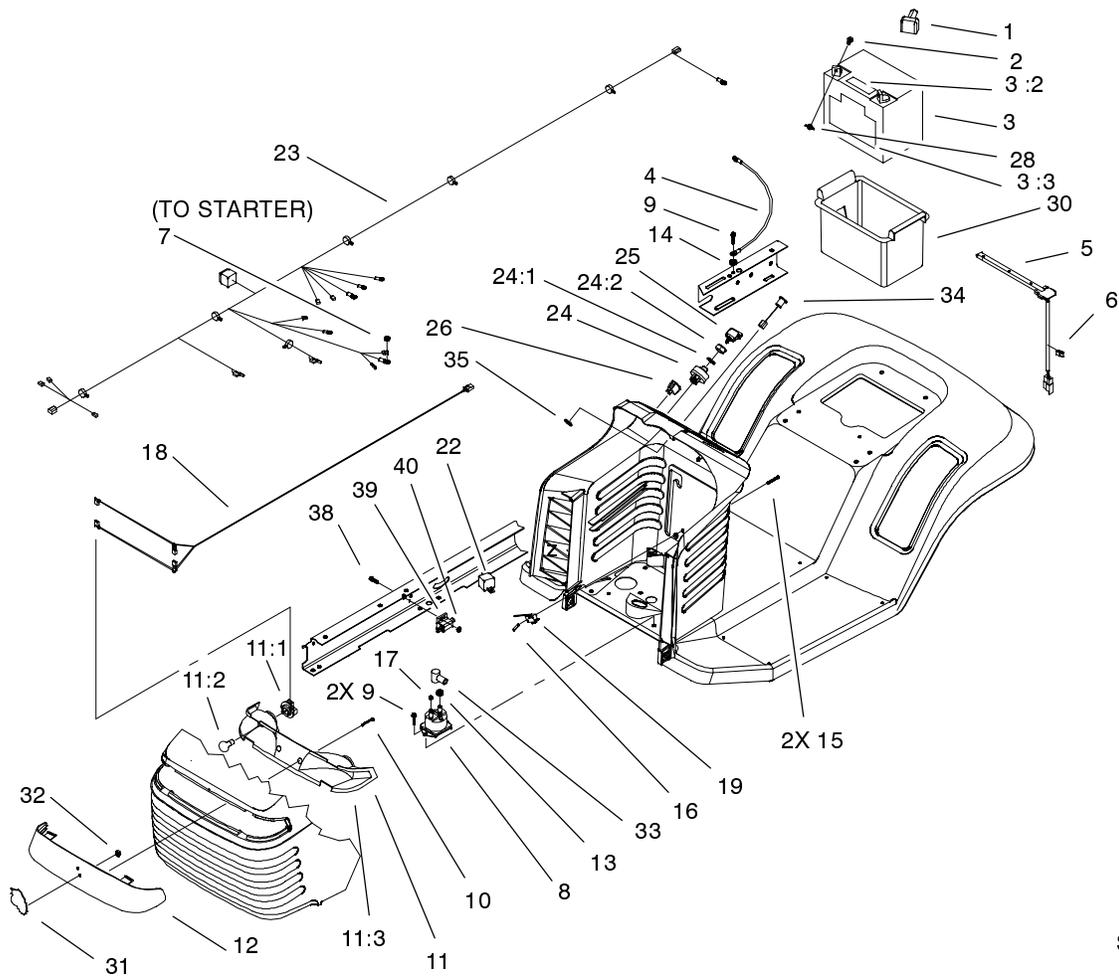


Sheet No.:18

38" Deck Engagement Assembly

Ref. No.	Part No.	Qty.	Description
1	32104-76	5	Screw
2	88-4030	1	LH Deck Belt Guide
3	3296-39	2	Nut-Lock, NI
4	93-3881-03	1	Pan-Front Deck, Suspension
5	94-5823	2	Bolt-Shoulder
6	94-1971-03	1	Brkt - LH Deck Susp
7	88-4020	1	RH Deck Belt Guide
8	61-9980	2	Screw-Adjusting
9	80-6990	4	Washer-Hardened
10	3256-22	2	Washer-Flat
11	3296-42	2	Nut-Lock NI
12	93-9847	2	Spacer
13	323-9	2	Screw-HH
14	94-1970-03	1	Brkt-RH Deck Susp
15	3296-29	2	Nut-Lock
16	322-12	2	Screw-HH
17	3296-23	2	Nut-Lock, NI
18	3296-16	2	Nut-Lock, NI
19	3256-1	2	Washer-Flat
20	95-2747	1	Fitting-Washout
21	46-6290	1	O-Ring
22	3229-1	2	Screw-CARR
23	322-1	2	Screw-HH (only on: 71227)

Ref. No.	Part No.	Qty.	Description
24	3296-29	2	Nut-Lock (only on: 71227)
25	95-3270	1	Connector-Hose (only on: 71227)

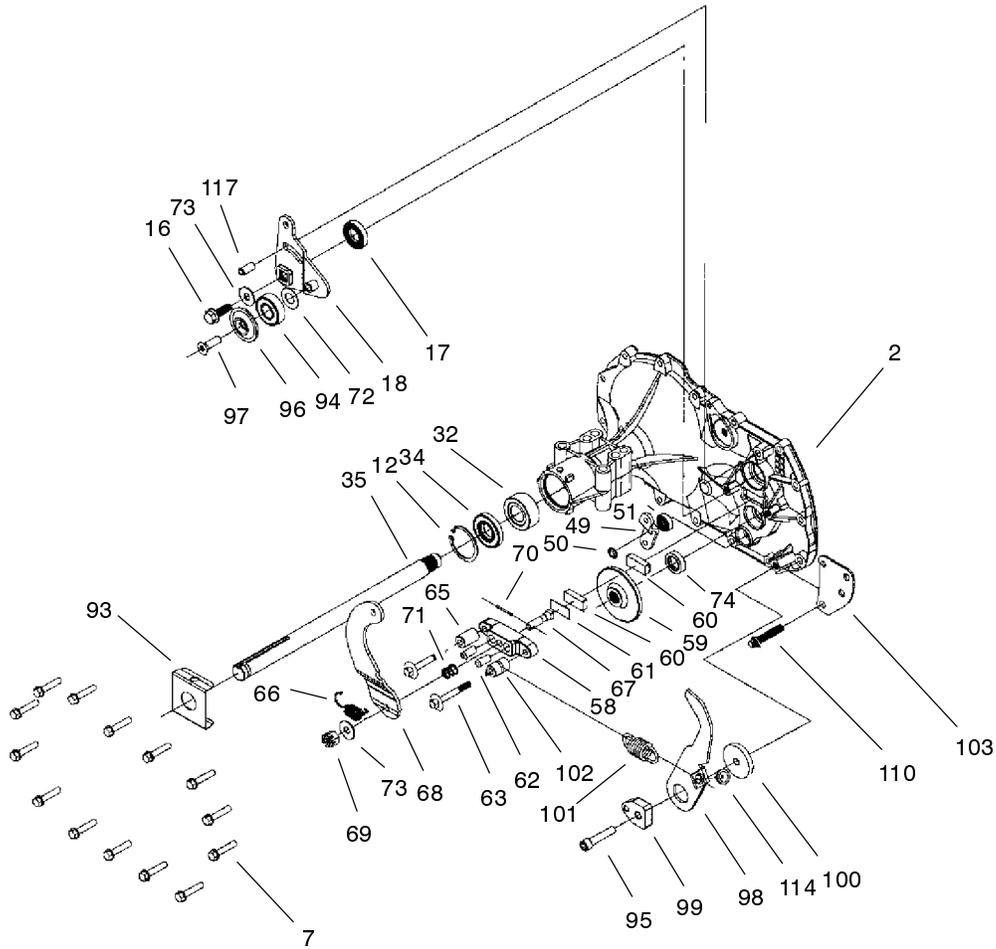


Sheet No.:20

Electrical 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
3:2	104-4163	1	Decal-Battery
3:3	104-4164	1	Decal-Battery
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
10	32144-32	2	Screw
11	88-3970	1	Reflector & Lamp ASM
11:1	111686	2	Socket-Light
11:2	7228	2	Bulb -No. 1156
11:3	93-8741	1	Reflector
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
18	99-1935	1	Harness-Headlight
19	88-9932	1	Switch-Micro
22	98-7249	1	Relay
23	99-6840	1	Harness-Wire, Hydro

Ref. No.	Part No.	Qty.	Description
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
26	92-8875	1	Switch - Rocker
28	32103-22	2	Nut-Wing
30	88-4040	1	Box-Battery
31	80-2240	1	Emblem-Grille
32	3290-299	1	Whlhorse
33	94-5362	1	Clip
34	95-7652	1	Boot - Terminal
35	99-6059	1	Insulator
38	3274-14	2	Light - Indicator
39	65-7410	1	Clip-Retainer
40	3296-2	1	Screw-HSH
		1	Switch - Single Pole
		2	Nut-Lock

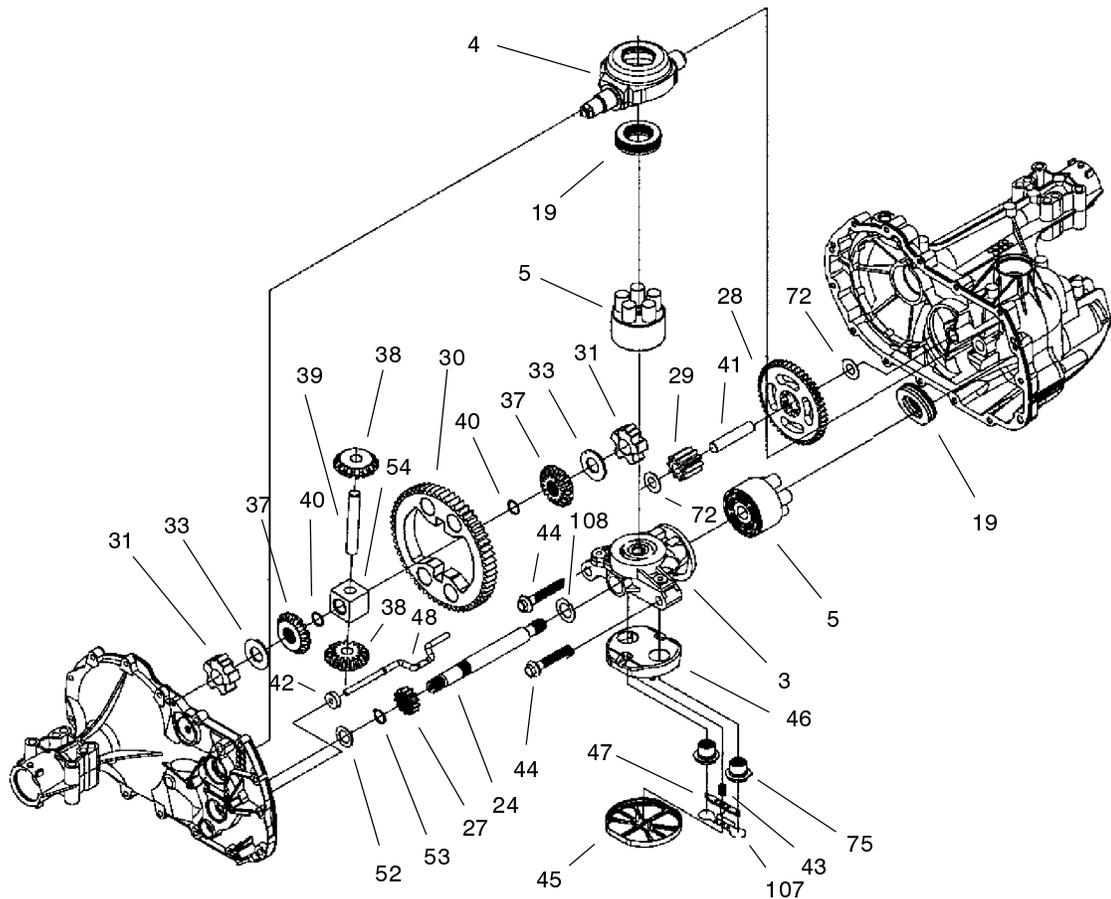


Sheet No.:3

Housing & Bearing Assembly

Ref. No.	Part No.	Qty.	Description
02	104-5302	1	Side Housing ASM
07	104-5305	14	Screw-Hex Flange
12	104-5309	1	Ring-Retaining
16	104-5312	1	Screw-Hex Flange
17	104-5313	1	Seal-Lip
18	104-5314	1	Arm-Control
32	104-5321	1	Bearing-Sleeve, Outboard
34	104-5322	1	Seal-Lip
35	104-5323	1	Shaft-Axle RH
49	104-5336	1	Arm-Bypass
50	104-5337	1	Ring-Retaining
51	104-5338	1	Seal-Lip
58	104-5343	1	Yoke-Brake
59	104-5344	1	Rotor-Brake
60	104-2171	2	Puck-Brake
61	104-2181	1	Puck-Plate
62	104-2176	2	Pin-Brake
63	104-5345	2	Screw-Hex Flange
65	104-2180	1	Spacer
66	104-2184	1	Spring-Brake Arm Bias
67	104-2174	1	Bolt-Square Head
68	104-5346	1	Arm-Brake
69	93-3807	1	Nut - Castle
70	104-2179	1	Pin-Cotter

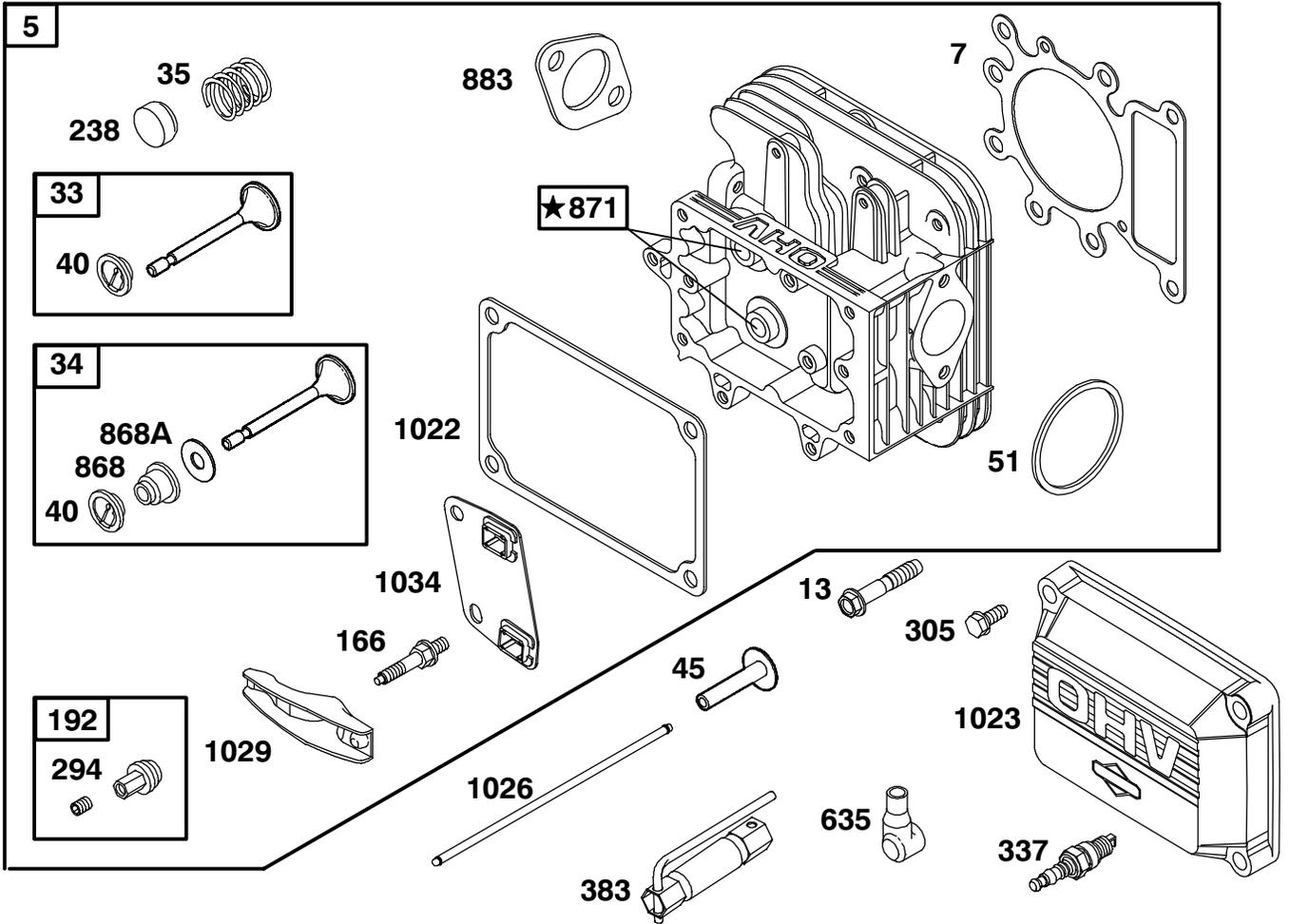
Ref. No.	Part No.	Qty.	Description
71	104-2188	1	Spring-Brake Anti Drag Comp.
72	94-1933	1	Washer
73	104-2146	2	Washer
74	104-5347	1	Seal-Oil
93	104-5353	1	Clip-Spring
94	104-2156	1	Bearing
95	104-2155	1	Screw
96	104-2157	1	Spacer-Locating
97	104-2158	1	Screw-Countersunk
98	104-5354	1	Arm-Return
99	104-2119	1	Puck-Adjusting
100	104-5355	1	Washer
101	104-5356	1	Spring-Extension
102	104-5357	1	Spacer
103	104-5358	1	Bracket-Torque
110	104-2148	1	Screw-Torx Head
114	104-5363	1	Guide-Spring
117	104-5365	1	Pin-Spring



Sheet No.:4

Gear Assembly

Ref. No.	Part No.	Qty.	Description	Ref. No.	Part No.	Qty.	Description
03	104-5303	1	Center Section ASM	53	104-5340	1	Ring-Retaining
04	104-5304	1	Swashplate-Trunnion Machined	54	104-5341	1	Bearing-Center Block
05	104-2106	2	10cc Cylinder Block ASM	72	94-1933	2	Washer
19	94-6922	2	Bearing - Thrust	75	104-5348	2	Check Plug ASM
24	104-5314	1	Arm-Control	107	104-5359	1	Deflector
27	104-5316	1	Gear-Pinion, 13t	108	104-5360	1	Washer-Motor Shaft
28	104-5317	1	Gear- 10t/48t				
29	104-5318	1	Gear-Jackshaft 10t				
30	104-5319	1	Gear-Bull 60t				
31	104-5320	2	Bearing-Sleeve				
33	94-1943	2	Washer				
37	104-5325	2	Gear-Miter				
38	104-5326	2	Gear-Miter 15t				
39	104-5327	1	Shaft				
40	104-5328	2	Ring-Spiral Retaining				
41	104-5329	1	Pin-Jackshaft				
42	104-5330	1	Magnet-Ring				
43	104-5331	1	Spring-Bypass				
44	94-6926	2	Bolt				
45	104-5332	1	Filter				
46	104-5333	1	Base-Filter				
47	104-5334	1	Actuator-Bypass				
48	104-5335	1	Rod-Bypass Actuator				
52	104-5339	1	Washer-Flat				

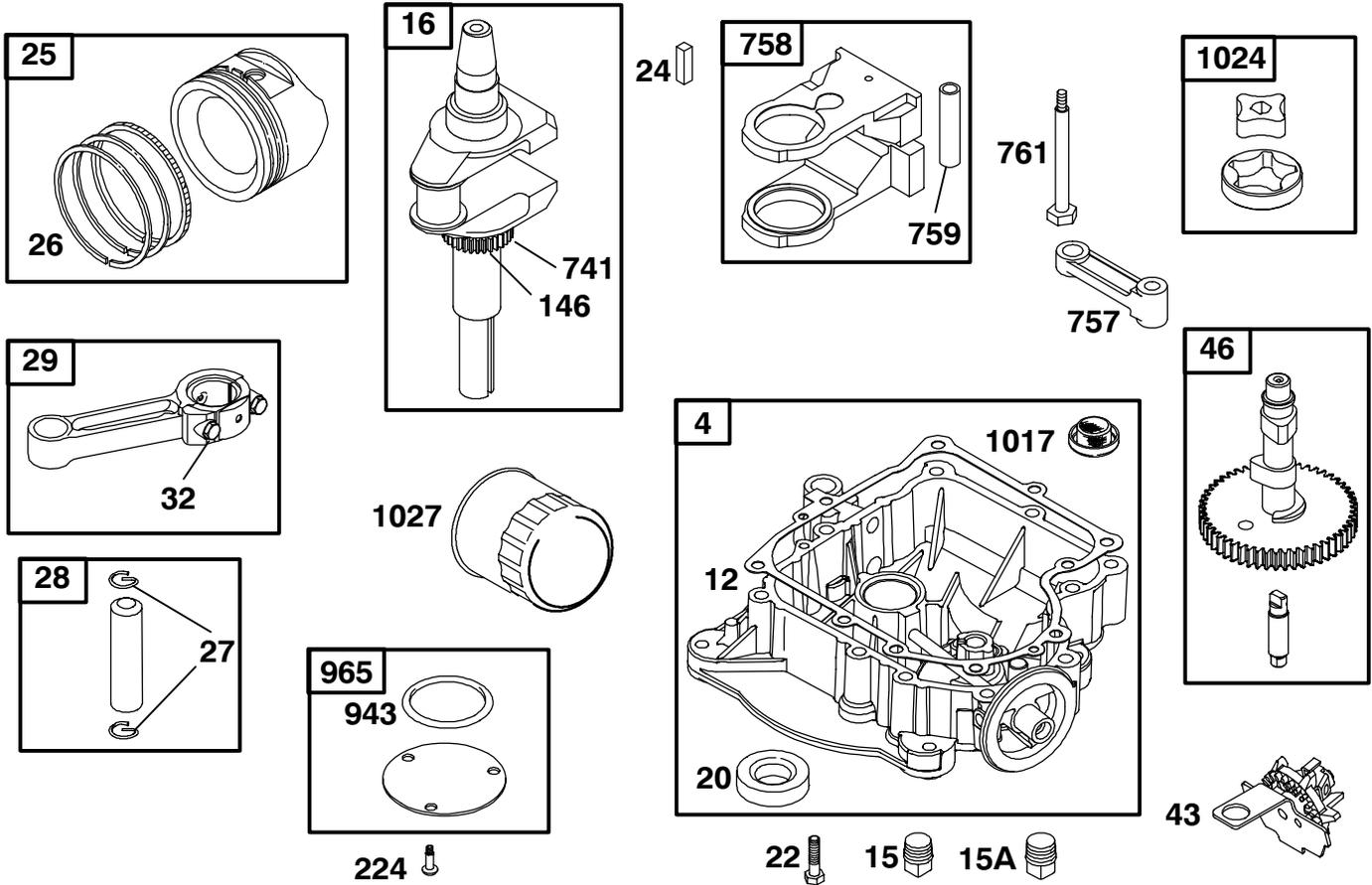


Engine Briggs & Stratton Model 28Q777-0690-E1

Ref. No.	Part No.	Qty.	Description
5	691165	1	Head-Cylinder
●★7	273280	1	Gasket-Cylinder Head
13	94728	1	Screw-Cylinder Head
33	495856	1	Valve-Exhaust
34	495857	1	Valve-Intake
35	262811	1	Spring-Valve
40	224641	1	Retainer-Valve
45	690564	1	Tappet-Valve
51	692138	1	Gasket-Intake
166	94555	1	Stud-Rocker Arm
192	492160	1	Adjuster-Valve
238	262836	1	Cap-Valve
294	810104	1	Screw-Set
305	94682	1	Screw-Hex. Head
337	491055	1	Plug-Spark
383	89838	1	Wrench-Spark Plug
635	280872	1	Elbow-Spark Plug
●★868	499236	1	Seal-Valve
868A	272610	1	Seal-Valve
871	262835	1	Bushing-Guide
●★883	272293	1	Gasket-Exhaust
●★1022	272475	1	Gasket-Rocker Cover
1023	214314	1	Cover-Rocker
1026	494432	1	Rod-Push (Intake)
			Note: 495136

Ref. No.	Part No.	Qty.	Description
		1	Rod-Push (Exhaust)
1029	224554	1	Arm-Rocker
1034	495248	1	Guide-Push Rod

★ Included in Gasket Set-Part No. 495993. ● Included in Valve Overhaul Kit-Part No. 495992.

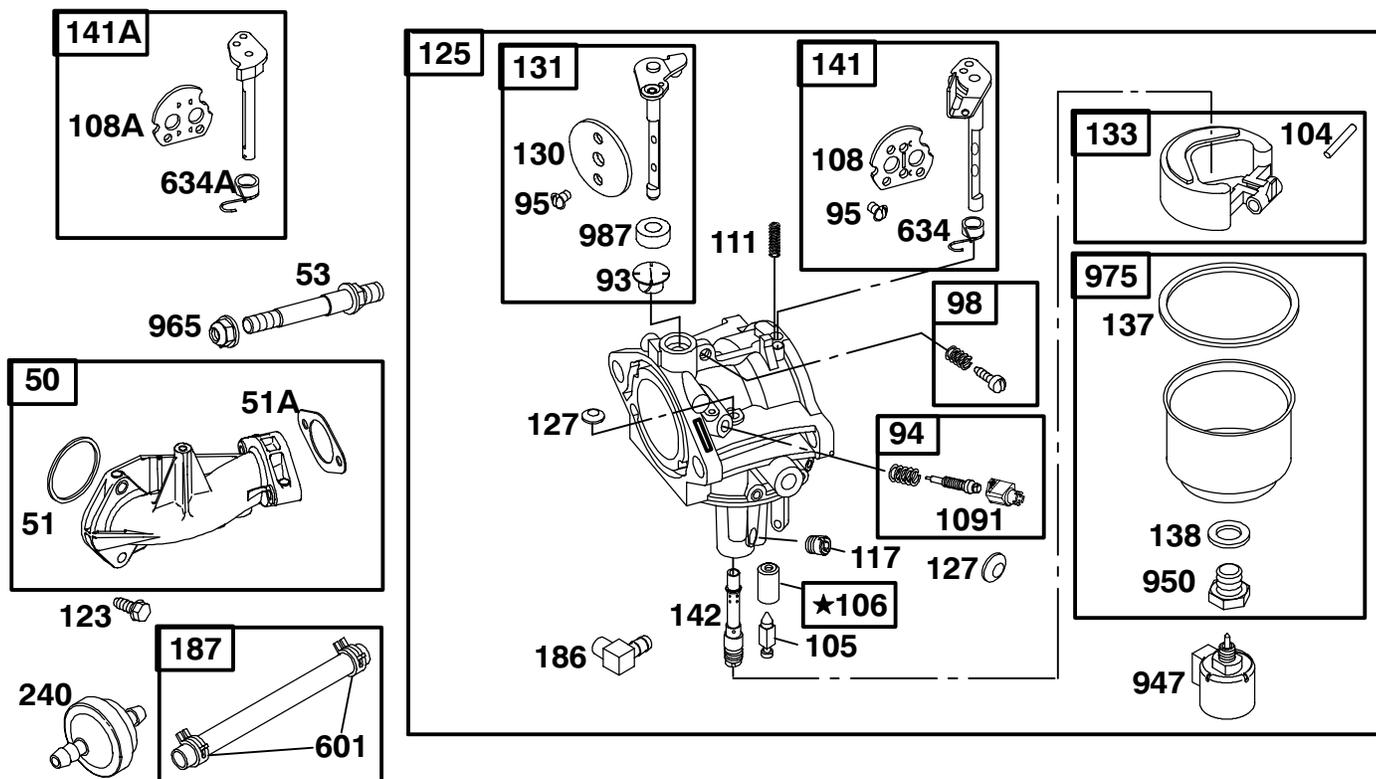


Engine Briggs & Stratton Model 28Q777-0690-E1

Ref. No.	Part No.	Qty.	Description
4	693582	1	Base-Engine
★12	271916	1	Gasket-Crankcase (.015" Thick, Std.)
★	271997	1	Gasket-Crankcase (.005" Thick)
★	271996	1	Gasket-Crankcase (.009" Thick)
15	94239	1	Plug-Oil Drain
15A	91488	1	Plug-Oil Pressure Switch
16	690136	1	Crankshaft
★20	291675	1	Seal-Oil
22	692125	1	Screw-Sem
24	222698	1	Key-Flywheel
25	499284	1	Piston Assembly (Standard)
	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 (Standard)
	495852	1	Ring Set (.010" O.S.)
	495851	1	Ring Set (.020" O.S.)
	495855	1	Ring Set (.030" O.S.)

Ref. No.	Part No.	Qty.	Description
27	263129	1	Lock-Piston Pin
28	498319	1	Pin-Piston (Standard)
	498320	1	Pin-Piston (.005" O.S.)
29	692419	1	Rod-Connecting (Standard)
32	692852	1	Screw-Conn. Rod
43	490815	1	Governor/Oil Slinger
46	693450	1	Camshaft
146	94196	1	Key-Timing Gear
224	691033	1	Screw-TorxRHEx.
741	262932	1	Gear-Timing
757	213998	1	Link-Counterweight
758	499994	1	Counterweight Assy.
759	230787	1	Pin-Counterweight
761	94593	1	Screw-Counterweight
943	280801	1	Seal-O-Ring
965	499613	1	Cover-Pump
1017	491722	1	Screen-Oil Pump
1024	499054	1	Pump-Oil
1027	492932	1	Filter-Oil

★ Included in Gasket Set-Part No. 495993.



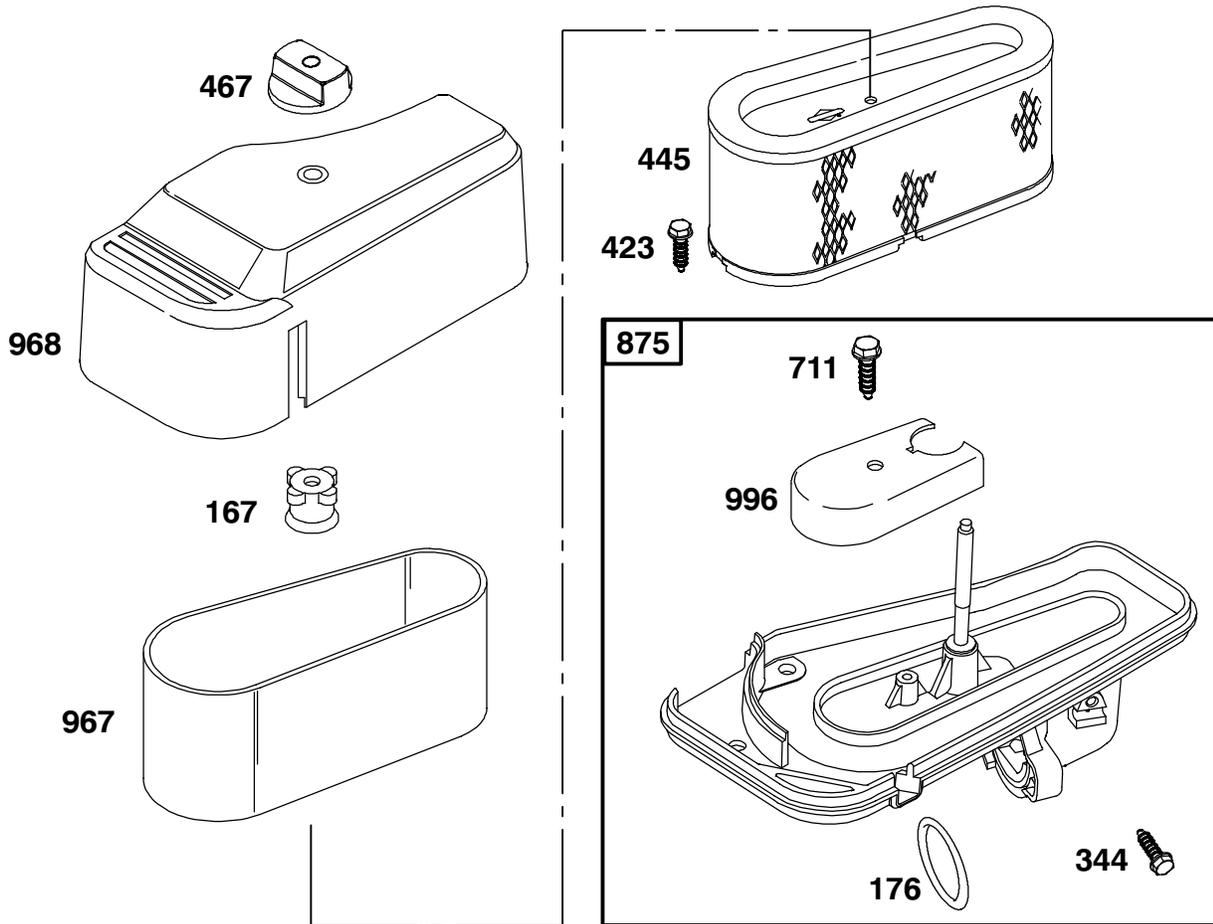
★ **REQUIRES SPECIAL TOOLS TO INSTALL. SEE REPAIR INSTRUCTION MANUAL.** Assemblies include all parts shown in frames.

Engine Briggs & Stratton Model 28Q777-0690-E1

Ref. No.	Part No.	Qty.	Description
50	690193	1	Manifold-Intake
51	692138	1	Gasket-Carburetor Manifold
●51A	273650	1	Gasket-Carburetor
53	690227	1	Stud-Carb. Mtg.
●93	281346	1	Bushing-Throttle Shaft
94	498030	1	Valve-Idle Adjust
●95	94098	1	Screw-Round Head
98	495800	1	Screw-Idle Adjust
●104	231789	1	Pin-Float Hinge
●105	231855	1	Valve-Inlet Needle
●106	231854	1	Seat-Inlet
108	224558	1	Valve-Choke (Manual)
108A	224540	1	Valve-Choke (Remote)
111	262715	1	Spring-Friction
●117	232118	1	Jet-Main (Standard)
	232119	1	Jet-Main (High Altitude)
123	95160	1	Screw-Elbow Mtg.
125	499153	1	Carburetor
●127		1	Plug-Welch (Sold in Kit Only)
130	224539	1	Valve-Throttle
131	494379	1	Shaft-Throttle
133	494381	1	Float-Carburetor
●◆137	281165	1	Gasket-Float Bowl

Ref. No.	Part No.	Qty.	Description
●◆138	281164	1	Washer-Float Bowl
141	495097	1	Shaft-Choke (Manual)
141A	495931	1	Shaft-Choke (Remote)
●142	232117	1	Nozzle-Carburetor
186	493496	1	Elbow-Fuel Pipe
187	298049	1	Line-Fuel (Cut to Length)
240	394358	1	Filter-Fuel
601	93053	1	Clamp-Hose
●634	494453	1	Seal-Spring Assembly
●634A	494455	1	Seal-Spring Assembly
947	497672	1	Solenoid
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 Carburetor Kit-Part No. 499116. ◆ Included in Carburetor Gasket Set-Part No. 690192.



Assemblies include all parts shown in frames.

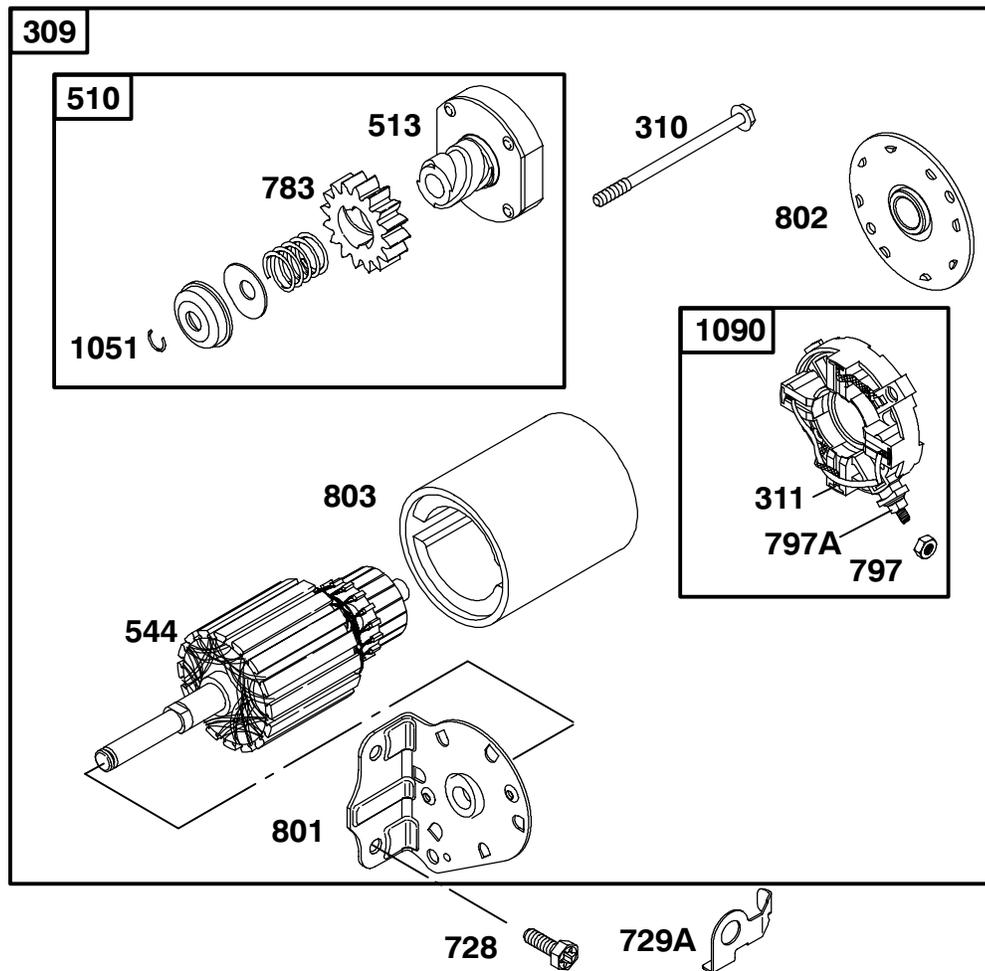
Engine Briggs & Stratton Model 28Q777-0690-E1

Ref. No.	Part No.	Qty.	Description
167	281051	1	Seal-Air Cleaner Stud
★176	281106	1	Gasket-Air Cleaner
344	693675	1	Screw-TorxRHex.
423	692129	1	Screw-TorxRHex.
445	496894	1	Filter-Air
467	493903	1	Knob-Air Cleaner
711	94704	1	Screw-Hex. Hd.
875	693686	1	Body-Air Cleaner
967	272403	1	Filter-Air
968	281365	1	Cover-Air Cleaner
996	690678	1	Shield-Carburetor

Ref. No.	Part No.	Qty.	Description

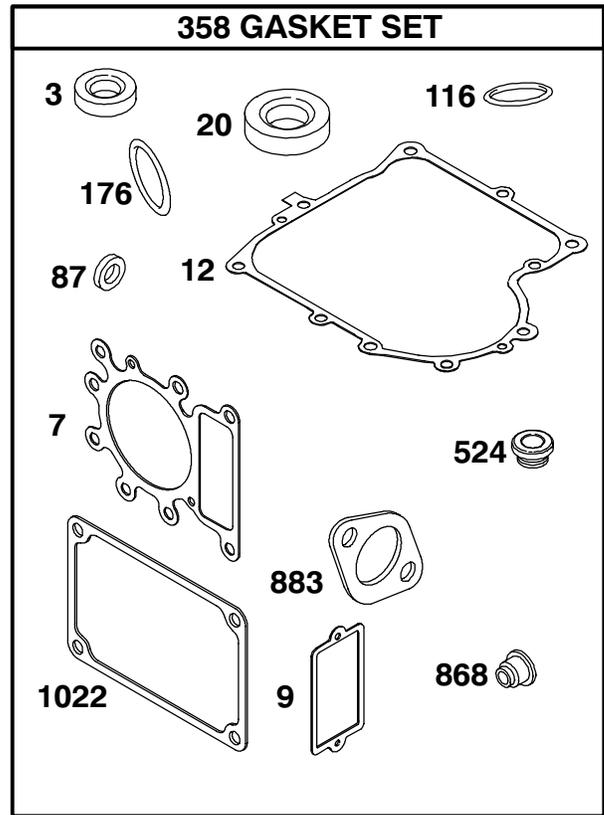
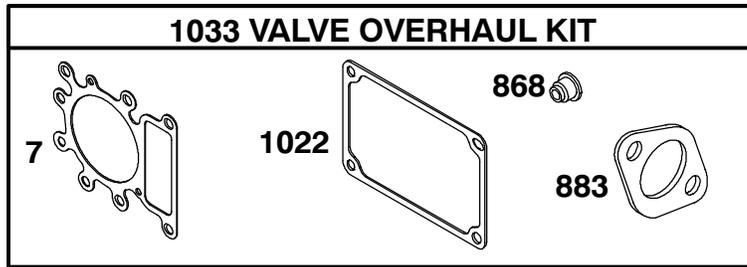
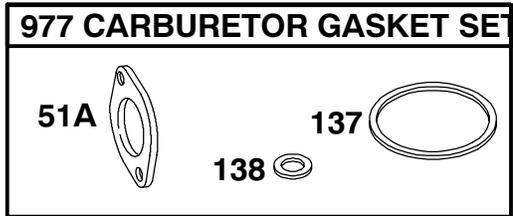
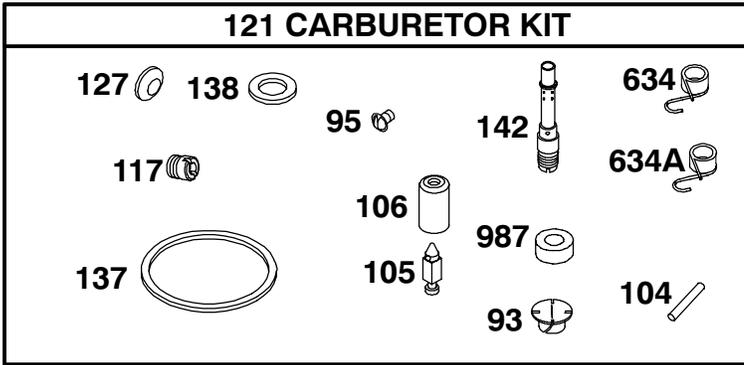
PROTOTYPE

★ Included in Gasket Set-Part No. 495993.



Engine Briggs & Stratton Model 28Q777-0690-E1

Ref. No.	Part No.	Qty.	Description	Ref. No.	Part No.	Qty.	Description
309	693551	1	Motor-Starter				
310	94003	1	Screw				
		1	(Starter Motor)				
311	497608	1	Brush Set				
510	693699	1	Drive-Starter				
513	398003	1	Clutch-Drive				
544	497603	1	Armature-Starter				
728	94951	1	Screw				
		1	(Starter Motor Mounting)				
729A	225170	1	Clip-Wire				
			PROTOTYPE				
783	693713		Starter-Pinion (Steel)				
1797	92278	1	Nut				
		1	(Starter Terminal)				
797A	693167	1	Nut				
		1	(Starter Terminal)				
801	497626	1	Cap-Drive				
802	497607	1	Cap-End				
803	693757	1	Housing-Starter				
1051	263080	1	Ring-Retainer				
1090	497605	1	Retainer-Brush				



Assemblies include all parts shown in frames.

Engine Briggs & Stratton Model 28Q777-0690-E1

Ref. No.	Part No.	Qty.	Description
★3	391086	1	Seal-Oil
●★7	273280	1	Gasket-Cylinder Head
★9	27803	1	Gasket-Valve Cover
★12	271916	1	Gasket-Crankcase
★	271997	1	Gasket-Crankcase (.015" Thick)
★	271996	1	Gasket-Crankcase (.005" Thick)
★20	291675	1	Gasket-Crankcase (.009" Thick)
★20	291675	1	Seal-Oil
●51A	273650	1	Seal-Oil
★87	491323	1	Gasket-Carburetor
●93	281346	1	Seal-Governor
●95	94098	1	Bushing-Throttle Shaft
●104	231789	1	Screw-Throttle
●105	231855	1	Pin-Float Hinge
●106	231854	1	Valve-Inlet Needle
★116	270920	1	Seat-Inlet
●117	232118	1	Seal-O-Ring
121	499233	1	Jet-Main
●127		1	Carburetor Kit
●◆137	281165	1	Plug-Welch (Sold in Kit Only)
●◆138	281164	1	Gasket-Float Bowl
●142	232117	1	Washer-Float Bowl
★176	281106	1	Nozzle-Carburetor
		1	Gasket-Air Cleaner

Ref. No.	Part No.	Qty.	Description
358	495993	1	Gasket Set
★524	281370	1	Seal-Fill Tube
●634	494453	1	Seal-Spring Assembly
●634A	494455	1	Seal-Spring Assembly
●★868	494435	1	Seal-Valve
●★883	272293	1	Gasket-Exhaust
977	690192	1	Gasket-Exhaust
●987	281166	1	Carburetor Gasket Set
●★1022	272475	1	Seal-Throttle Shaft
1033	495992	1	Gasket-Rocker Cover
		1	Kit-Valve Overhaul

● Included in Carburetor Kit-Part No. 499116. ◆ Included in Carburetor Gasket Set-Part No. 690192.
 ★ Included in Gasket Set-Part No. 495993. ● Included in Valve Overhaul Kit-Part No. 495992.



PROTOTYPE