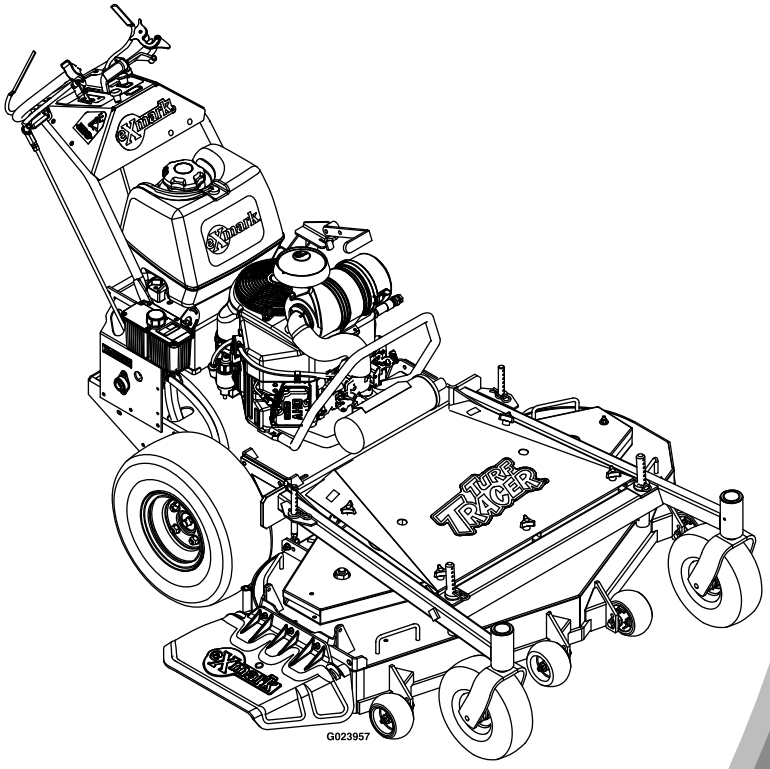
TURF TRACER®
X-SERIES

Model No. TTX650EKCE524—Serial No. 314000000 and Up

Picture below may not reflect actual product.



Parts Manual

Part No. 4501-895 Rev. A

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 illustration and in parts 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.

List of Abbreviations

AR: as required

ASM: assembly

BBC: blade brake control

BHTF: button head thread forming

CARR: carriage

CCW: counter clockwise

CW: clockwise

DEG: degrees

DPA: Dual Point Adjustment

ECM: electronic control module

EXT: external

FH: flat head

GA: gauge

HD: heavy-duty

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

LH: left hand

LP: Liquefied Petroleum Gas

LPG: Liquefied Petroleum Gas

NI: nylon insert

NPTF: national pipe thread fine

PFH: phillips flat head

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

RRB: rear roller brush

SFH: slotted fillister head

SHH: slotted hex head

SHWH: slotted hex washer head

SPH: slotted pan head

SQH: square head

SRH: slotted round head

STD: standard

TAP: self tapping

TTH: torx truss head

Touch Up Paint

Exmark black touch up spray paint – gloss black.

Exmark red touch up paint (spray paint – P/N 1-850337 - .6 oz liquid bottle – P/N 103-9140).

© 2013—Exmark Mfg. Co., Inc.
Industrial Park Box 808
Beatrice, NE 68310

Contact us at www.Exmark.com.
Printed in the USA.
All Rights Reserved

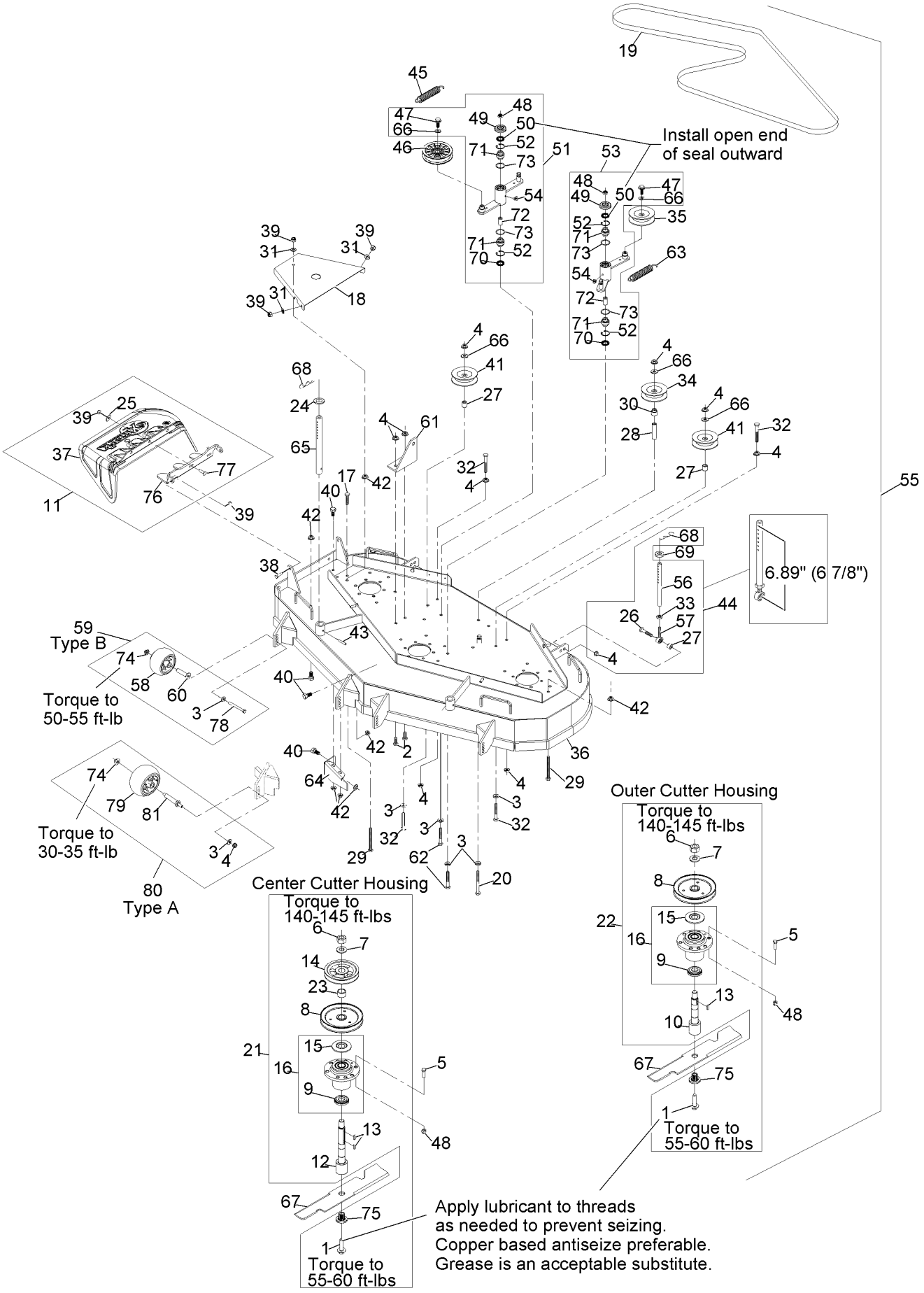


If your Exmark dealer does not have the Exmark part in stock, Exmark will get the parts to the dealer the next business day or the part will be FREE Guaranteed!! (Some restrictions apply. See your participating Exmark Dealer for details.)

Contents

Deck Assembly 4
Deck Support Assembly 6
ECS Upper Handle Controls Assembly 8
Engine Deck Assembly 10
Park Brake and Engine Assembly 12
Hydraulic Assembly 14
Fuel Tank Assembly 16
Electrical Assembly 17
Decals 18

Deck Assembly



Deck Assembly (continued)

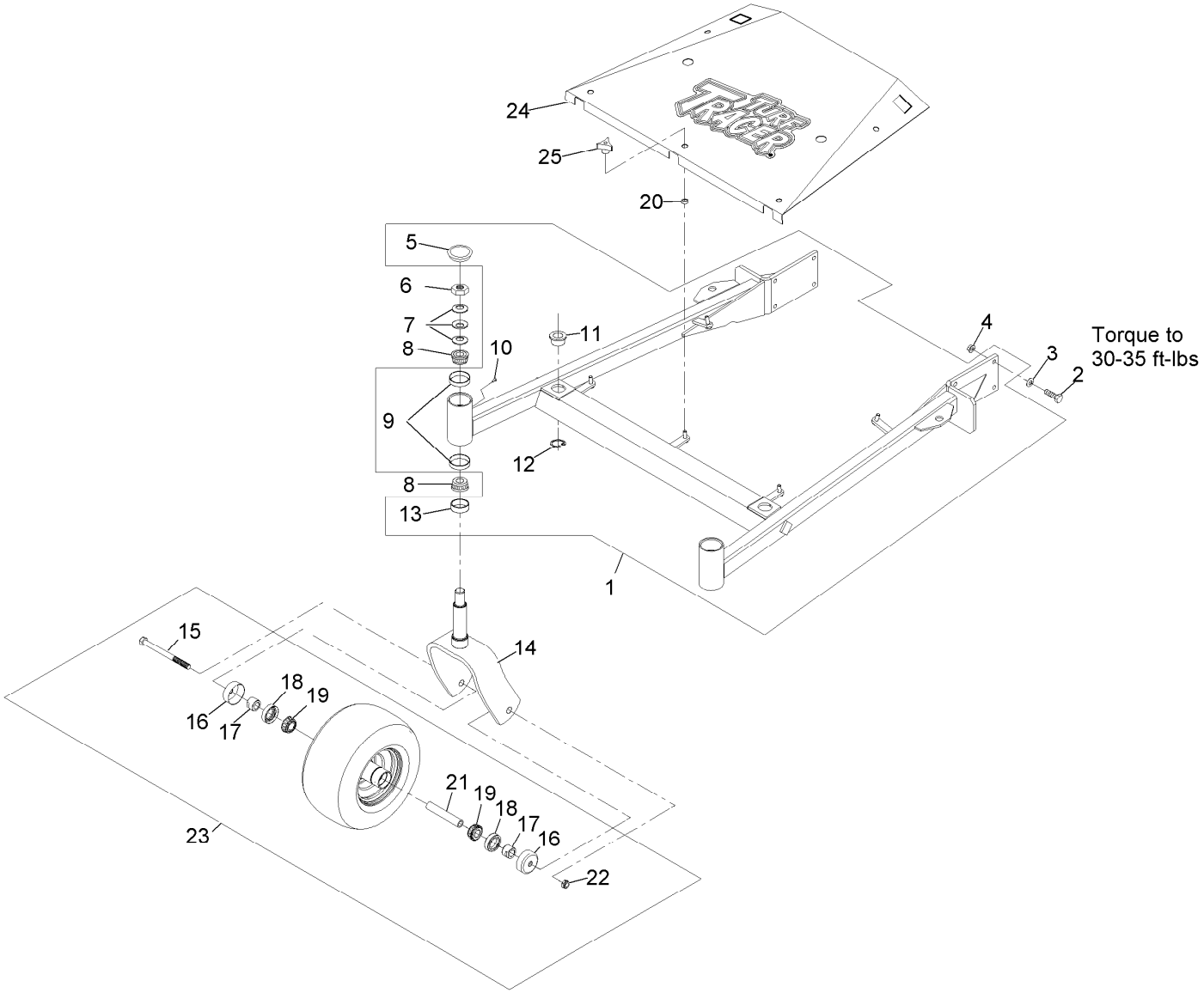
Ref.	Part Number	Qty.	Description
1	109-9220	3	Screw-Sems 1/2-20 X 2.19
2	323-6	2	Screw-HH 3/8-16 X 1
3	98-5975	11	Washer-Spring Disc 3/8
4	3290-357	11	Nut-Whizlock 3/8-16
4	3290-357	17	Nut-Whizlock 3/8-16
5	323-7	18	Screw-HH 3/8-16 X 1 1/4
6	3217-46	3	Nut-Hex 3/4-16 Heavy
7	103-2802	3	Washer-Spring Disc 3/4
8	103-2794	3	Sheave, Blade Drive ▲
9	103-2535	3	Spacer-Guard Bottom
10	103-9086	2	Kit-Splined Spindle ▲
11	109-4722	1	Asm, Discharge Chute
12	103-9087	1	Kit, Center Blade Spindle (Long) ▲
13	103-2982	4	Key-Machine 1/4 X 3/16 X 3/4
14	103-2793	1	Sheave, Mower Drive ▲
15	103-1330	3	Guard-Bearing Top ▲
16	103-8280	3	Asm, Cutter Housing W/Bearings ▲
17	322-3	1	Screw-HH 5/16-18 X 3/4
18	103-2969-01	2	Cover, Deck
19	103-2329	1	Belt, Blade Drive
20	323-23	1	Screw-HH 3/8-16 X 4-1/2
21	103-9084	1	Housing, Cutter Complete (Center)
22	103-9076	2	Asm, Cutter Housing Complete
23	103-3209	1	Spacer, Tube
24	1-413425	2	Spacer
25	3256-82	3	Washer
26	323-9	2	Screw-HH 3/8-16 X 1 3/4
27	1-603050	4	Spacer
28	1-633988	1	Spacer-Anchor, Clutch
29	1-800017	2	Bolt-HH 5/16-18 X 3 1/4 Tap
30	1-513791	1	Bushing
31	3256-3	6	Washer-5/16 Std
32	323-12	4	Screw-HH 3/8-16 X 2 1/2
33	3220-3	2	Nut-Jam 3/8-24
34	1-603805	1	Pulley-Idler
35	1-613098	1	Pulley-Idler
36	116-5949	1	Deck, (116-5862-01) W/ Decals
37	109-2738	1	Chute, Discharge
38	322-5	2	Screw-HH 5/16-18 X 1
39	3296-29	8	Nut-Nyloc 5/16-18
40	322-2	5	Screw-HH 5/16-18 X 5/8
41	1-303516	2	Pulley, V-Idler
42	32128-20	8	Nut-Whizlock 5/16-18
43	1-806332	2	Rollpin 1/4 X 1 1/2
44	1-411532	2	Kit, Support Link W/Pin
45	1-603413	1	Spring-Extension
46	109-4077	1	Pulley-Idler, Flat
47	3234-11	2	Screw-HH Flg 3/8-16 X 1
48	3296-39	20	Nut-Nyloc 3/8-16
49	103-2916	2	Guard-Top
50	103-3506	2	Seal-Single Lip
51	103-8072	1	Kit, Idler Arm W/Bearings ●
52	32120-10	4	Ring-Retaining
53	103-8071	1	Kit, Idler Arm W/Bearings ●
54	302-40	2	Zerk-90° 1/4-28
55	116-5947	1	Asm, Complete Deck
56	1-413525	2	Link, Rear Deck Support
57	1-613204	2	Balljoint
58	103-8415	6	Roller, Anti-Scalp
59	116-9981	6	Kit, Anti-Scalp Roller
60	116-8131	6	Axle, Roller
61	1-603620-01	1	Bracket, Spring Anchor
62	98-5961	2	Screw-HH 3/8-16 X 4 Gr8
63	1-603414	1	Spring-Extension
64	116-2072-01	1	Baffle
65	1-603001	2	Rod, Deck Support
66	3256-24	5	Washer-3/8 Sae
67	103-6402	3	Blade-Notched
67	103-6382	3	Blade, Solid
67	103-6387	3	Blade, Low Lift
67	103-6392	3	Blade, Mulching ■
67	103-6397	3	Blade, Extreme
68	1-806009	4	Hairpin-Cotter #206
69	1-323539	2	Spacer-Blade Drive
70	103-3505	2	Seal-Double Lip
71	103-3504	4	Bearing-Spherical
72	1-413088	2	Spacer
73	106-7159	4	O-Ring
74	109-6658	6	Nut-Nyloc 3/8-16 Flg
75	103-3037	3	Bushing, Splined
76	109-4573-01	1	Bracket, Discharge Chute
77	3230-22	3	Bolt-Carriage 5/16-18 X 1 Sp
78	116-9362	6	Screw-HH
79	1-603299	6	Roller-Scalp, Anti
80	103-4051	6	Kit, Antiscalp Roller
81	99-2842	6	Spacer

● Assembly also includes Washer and Screw

■ Requires installation of mulch kit for proper mulching. See your Exmark dealer for details.

▲ Apply Mobil HTS grease (P/N 103-5217 1.5 oz packet) (or a food-grade anti-seize). See operator s manual for locations.

Deck Support Assembly

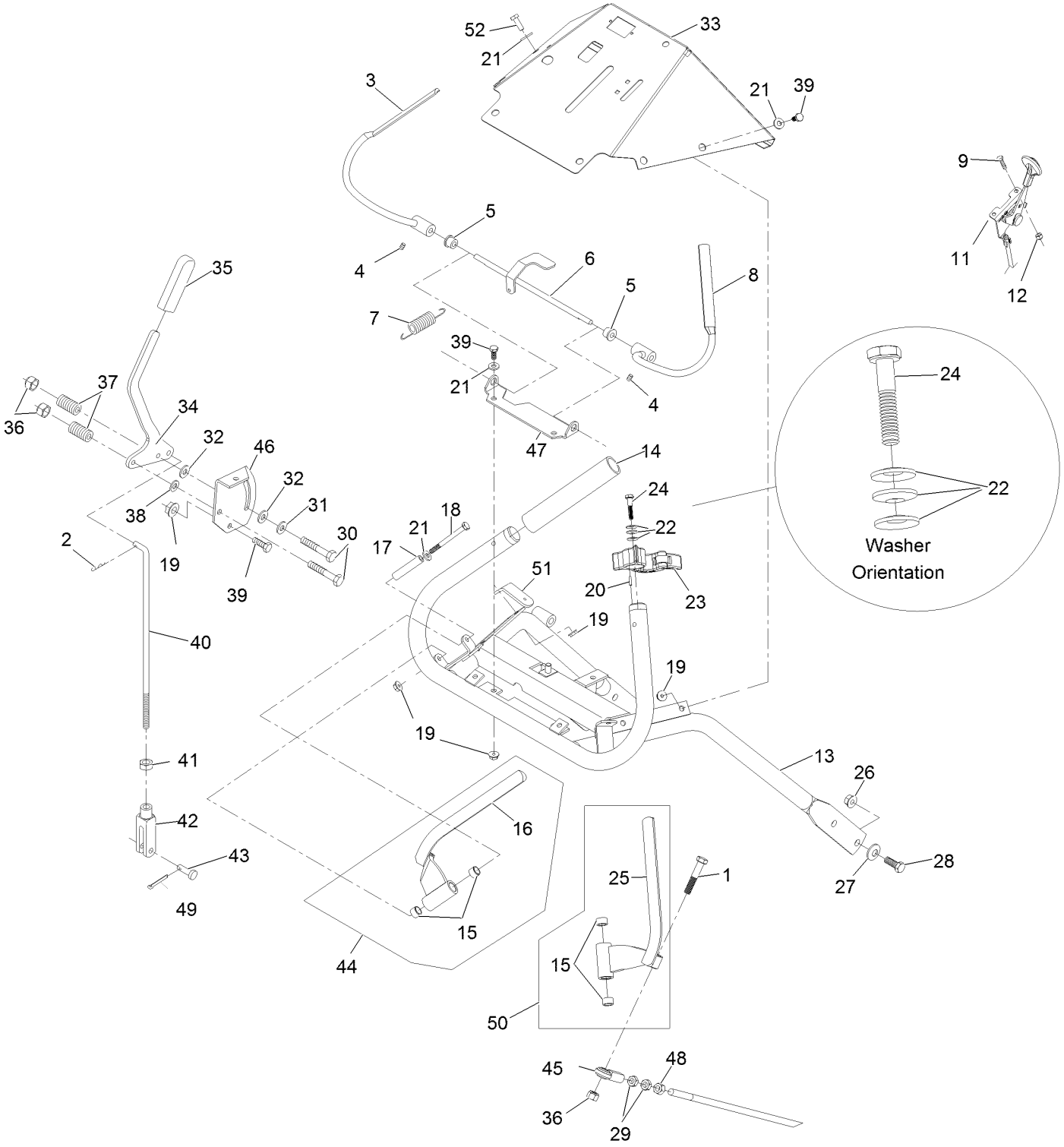


Deck Support Assembly (continued)

Ref.	Part Number	Qty.	Description
1	103-1895	1	Support, Deck 103-4959-01 W/Bsgs And Decals
2	323-7	8	Screw-HH 3/8-16 X 1 1/4
3	98-5975	8	Washer-Spring Disc 3/8
4	3290-357	8	Nut-Whizlock 3/8-16
5	103-4882	2	Cap-Grease
6	3296-51	2	Nut-Nyloc 3/4-10
7	1-633508	6	Washer-Spring Disc
8	1-543509	4	Cone-Bearing Tapered Roller
9	1-543508	4	Cup-Bearing Tapered Roller
10	1-811010	2	Plug
11	1-513336	2	Bushing-Deck
12	32120-33	2	Ring-Retaining
13	1-543511	2	Seal-Grease
14	103-1891-01	2	Wld, Caster Fork
15	325-20	2	Screw-HH 1/2-13 X 6
16	103-2768	4	Guard-Seal
17	103-3051	4	Spacer-Nut ●
18	103-0063	4	Seal-Double Lip
19	1-633585	4	Bearing-Cone Tapered Roller
20	1-323417	5	Washer-Belt Shield
21	103-3157	2	Axle-Caster
22	3296-45	2	Nut-Nyloc 1/2-13 Thin
23	109-3524	2	Asm, Wheel And Bearings
24	116-2708	1	Shield, Belt (103-2319-01) W/Decal (52")
25	1-323385	5	Knob-3 Prong

● Use Pro-Lock, Nut Type (P/N 1-840022, .5ml tube) on threads.

ECS Upper Handle Controls Assembly

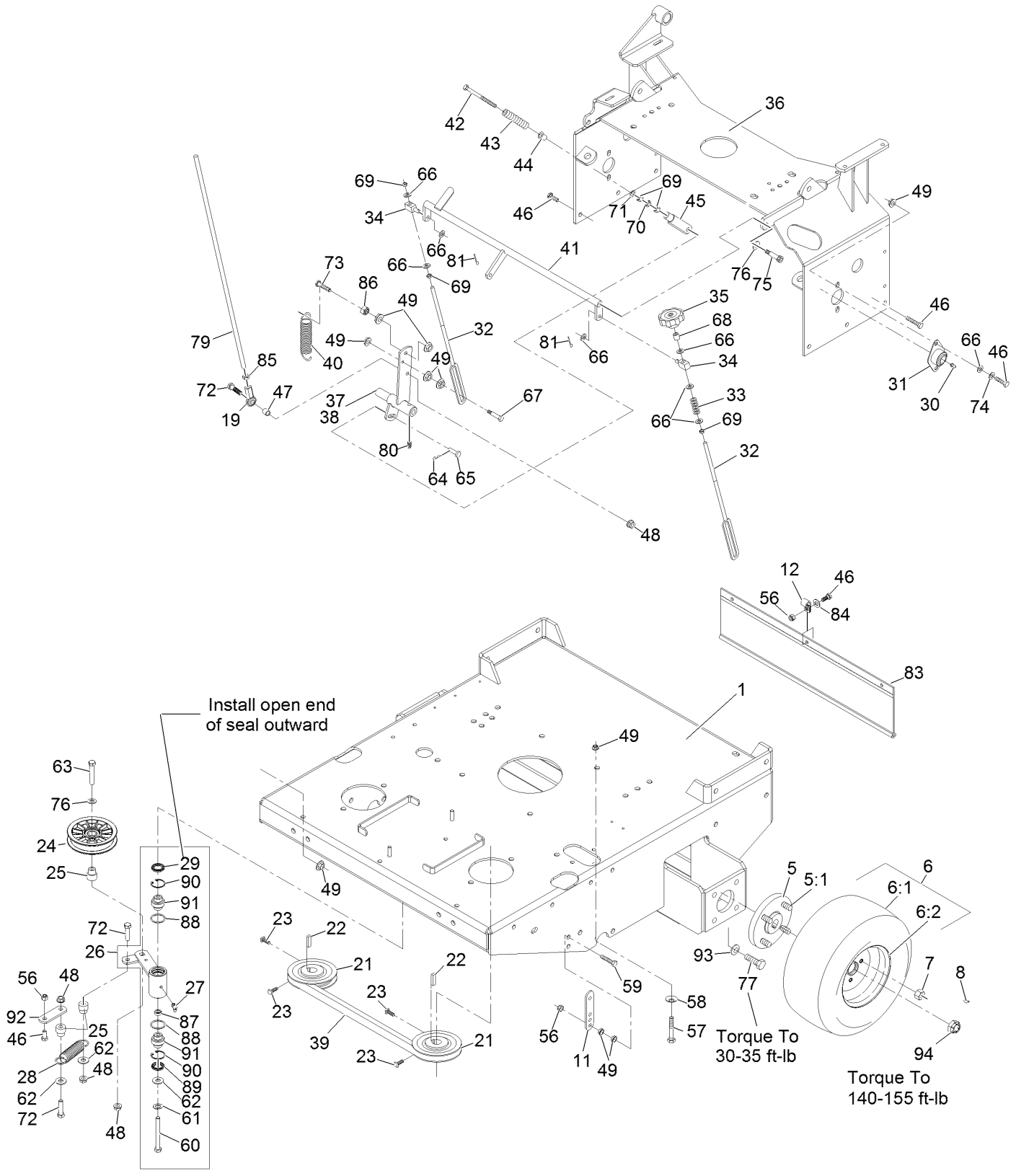


ECS Upper Handle Controls Assembly (continued)

Ref.	Part Number	Qty.	Description
1	322-9	2	Screw-HH 5/16-18 X 1 3/4
2	1-806003	1	Hairpin-Cotter
3	116-4079	1	Wld, Lever, Opc (LH) ▲
4	1-803322	2	Setscrew-5/16-24 X 5/16 ■
5	1-303365	2	Bushing-Nylon
6	103-0769-03	1	Rod Weldment, Opc
7	1-303363	1	Spring-Extension
8	116-4080	1	Wld, Opc Lever (RH) ▲
9	1-807513	2	Bolt-Carriage #10-24 X 1/2
11	109-3958	1	Control-Throttle
12	3296-2	2	Nut-Nyloc #10-24
13	103-1537-03	1	Handle Wld, Upper Ecs
14	103-0815	2	Grip-Bar, Handle
15	1-413152	4	Bushing-Sleeve
16	116-4081	1	Lever, Drive LH
17	103-0027	2	Bushing-Lever, Drive
18	321-14	2	Screw-HH 1/4-20 X 2 3/4
19	32128-33	12	Nut-Whizlock 1/4-20
20	103-0464	2	Pin-Spring 1/8 X 1/2
21	3256-22	10	Washer-1/4 Sae
22	1-303435	6	Washer-Spring Disc 1/4
23	103-1371	1	Thumb Latch Asm RH
23	103-1372	1	Thumb Latch Asm LH ●
24	103-0235	2	Screw-HH 1/4-20 X 1 1/8 W/Nylon ■
25	116-4082	1	Lever, Drive RH
26	3290-357	4	Nut-Whizlock 3/8-16
27	98-5975	4	Washer-Spring Disc 3/8
28	323-6	4	Screw-HH 3/8-16 X 1
29	3220-3	4	Nut-Jam 3/8-24
30	322-10	2	Screw-HH 5/16-18 X 2
31	1-603716	1	Washer-Friction Disc
32	1-323244	2	Washer-Friction
33	126-2062	1	Console 126-1774-03 W/ Decals
34	116-8632	1	Lever-Shift W/Grip
35	103-5994	1	Grip, Steering Handle
36	3296-29	4	Nut-Nyloc 5/16-18
37	1-323245	2	Spring-Compression
38	3256-23	1	Washer-5/16 Sae
39	321-3	9	Screw-HH 1/4-20 X 5/8
40	1-413225	1	Rod, Speed Control
41	3220-2	1	Nut-Jam 5/16-24
42	1-303105	1	Yoke-Adjustable
43	1-808280	1	Pin-Clevis 5/16 X 1 49/64
44	103-2514	1	Asm, Drive Lever LH
45	103-2463	2	Balljoint
46	103-0503	1	Bracket,Shifter Slide
47	103-0489-03	1	Bracket, Opc Axle
48	3219-3	2	Nut-Hex 3/8-24
49	3272-5	1	Pin-Cotter 3/32 X 1/2
50	103-2513	1	Asm, Drive Lever RH
51	126-1777	1	Bracket-Relay
52	321-4	1	Screw-HH 1/4-20 X 3/4

● Not illustrated
■ Use Pro-Lock, Nut Type (P/N 1-840022, .5ml tube) on threads.
▲ Use Pro-Lock retaining type, Part no. 1-840023 (.5cc tube) on inside of bore of OPC hub.

Engine Deck Assembly

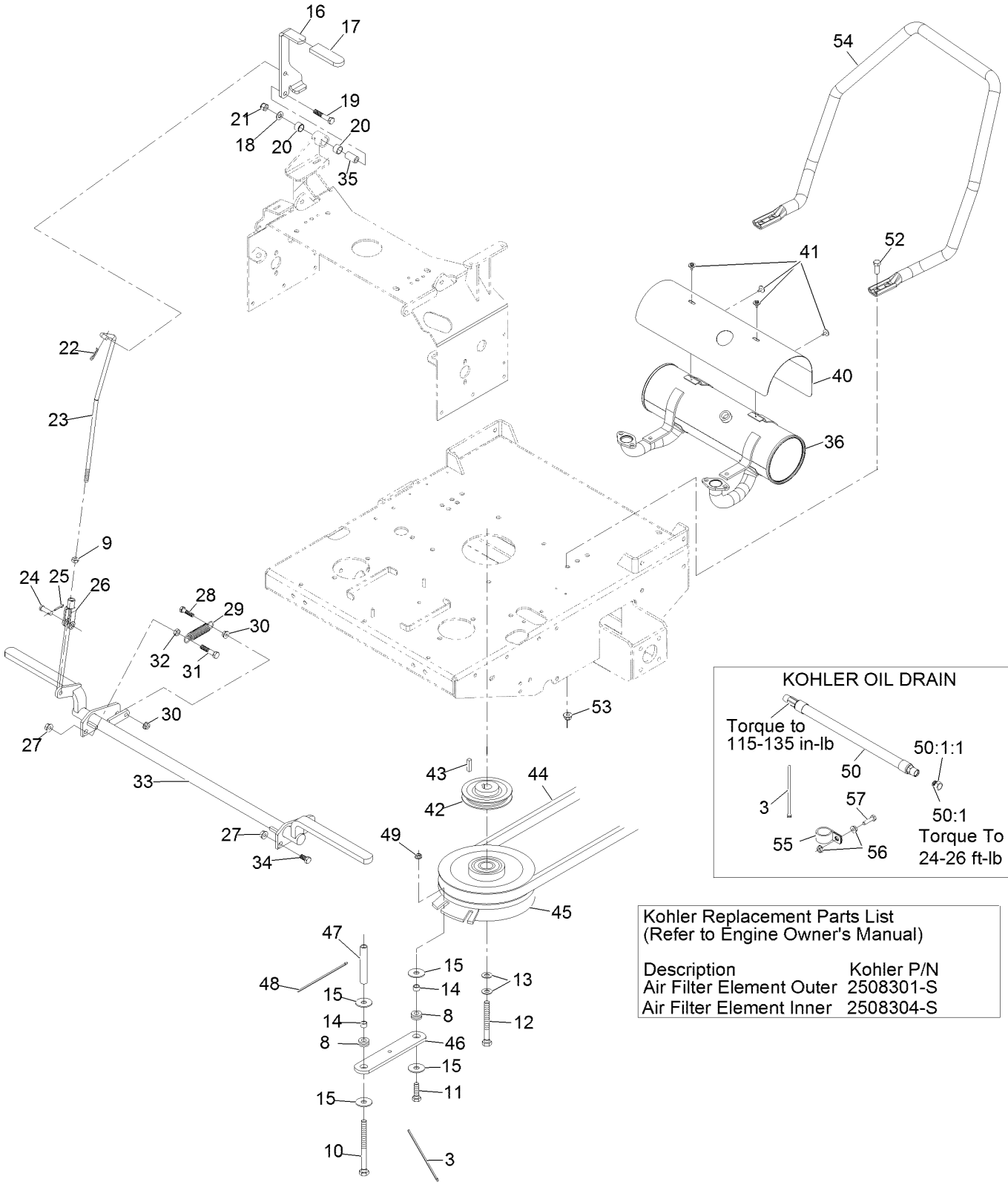


Engine Deck Assembly (continued)

Ref.	Part Number	Qty.	Description
1	116-6130	1	Eng Deck (116-8949-01) W/ Decals
5	112-9049	2	Wheel Hub ASM
5:1	1-633926	8	Stud-Wheel
6	103-1715	2	Tire And Wheel Assy
6:1	103-2237	2	Tire Only 18 X 8.50
6:2	103-2238	2	Wheel Only
7	242-50	8	Nut-Lug 1/2-20
8	1-807019	2	Key-Woodruff 1 X 1/4
11	1-613089	2	Tab-Spring, Extension
12	1-413510	3	Clip-Loom
19	103-1167	2	Joint-Ball End, .38X.38Fe LH
21	1-413010	2	Sheave ASM
22	1-807272	2	Key-5Mm X 5Mm X 25Mm
23	120-6474	4	Screw-Set, SQH 5/16-18 X 3/4 ■
24	109-4077	1	Pulley-Idler, Flat
25	1-603496	3	Bushing-Idler
26	109-2578	1	Kit
27	302-40	1	Zerk-90° 1/4-28
28	1-603414	1	Spring-Extension
29	103-3506	1	Seal-Single Lip
30	302-19	2	Zerk-1/4-28 Str
31	1-633102	2	Bearing-Flanged
32	1-613206	2	Rod, Control Arm
33	1-323245	1	Spring-Compression
34	1-603676	2	Swivel-Adjustable, Short
35	103-3060	1	Knob-Tracking
36	116-1792-01	1	Support, Tank/Handle
37	103-1561-01	1	Arm, Control LH
38	103-1562-01	1	Arm, Control RH ●
39	109-2584	1	Belt, Hyd Trans Drive ("a" Belt)
40	1-603693	2	Spring
41	103-2234-01	1	Crank Weldmt
42	1-603737	2	Bolt-Neutral Return
43	103-0265	2	Spring, Neutral Return
44	1-603735	2	Bushing-Flanged
45	1-303105	2	Yoke-Adjustable
46	322-3	14	Screw-HH 5/16-18 X 3/4
47	103-2421	2	Tube, Pump Link Spacer
48	3290-357	6	Nut-Whizlock 3/8-16
49	32128-20	27	Nut-Whizlock 5/16-18
56	3296-29	6	Nut-Nyloc 5/16-18
57	322-7	4	Screw-HH 5/16-18 X 1 1/2
58	1-303334	4	Washer-Spring Disc 5/16
59	1-800016	2	Bolt-HH 5/16-18 X 1 1/4 Tap
60	1-800805	1	Screw-HH 3/8-16 X 3-1/2 Gr8 ■
61	3253-5	1	Washer-Lock 3/8 Heavy
62	3256-4	3	Washer-3/8 Std
63	323-9	1	Screw-HH 3/8-16 X 1 3/4
64	1-806003	2	Hairpin-Cotter
65	1-808280	2	Pin-Clevis 5/16 X 1 49/64
66	3256-23	11	Washer-5/16 Sae
67	1-403180	2	Screw-HH 5/16-18 X 1 3/8 Special
68	1-603903	1	Spacer
69	3219-2	7	Nut-Hex 5/16-24
70	3220-2	2	Nut-Jam 5/16-24
71	3256-2	2	Washer-1/4 Std
72	323-8	4	Screw-HH 3/8-16 X 1 1/2
73	116-3515	2	Screw,HH Special 5/16-18 X 1.25
74	1-805005	4	Washer-Lock 5/16 Heavy
75	1-809056	2	Screw-Sh 5/16-18 X 1 3/8 ■
76	3256-24	3	Washer-3/8 Sae
77	323-6	8	Screw-HH 3/8-16 X 1
79	103-1576	2	Rod, Drive Lever
80	1-803022	2	Setscrew-5/16-18 X 5/8 ■
81	3272-5	2	Pin-Cotter 3/32 X 1/2
83	103-2224	1	Shield, Drag
84	3256-3	3	Washer-5/16 Std
85	3220-16	2	Nut-Jam 3/8-24 LH
86	3218-2	2	Nut-Jam 5/16-18
87	103-5677	1	Spacer
88	106-7159	2	O-Ring
89	103-3505	1	Seal-Double Lip
90	32120-10	2	Ring-Retaining
91	103-3504	2	Bearing-Spherical
92	1-633068	1	Arm-Lift, Deck
93	98-5975	8	Washer-Spring Disc 3/8
94	116-2839	2	Nut-Lock

● Not illustrated
■ Use Pro-Lock, Nut Type (P/N 1-840022, .5ml tube) on threads.

Park Brake and Engine Assembly



KOHLER OIL DRAIN

Torque to
115-135 in-lb

50:1:1

50

3

57

50:1
Torque To
24-26 ft-lb

55

56

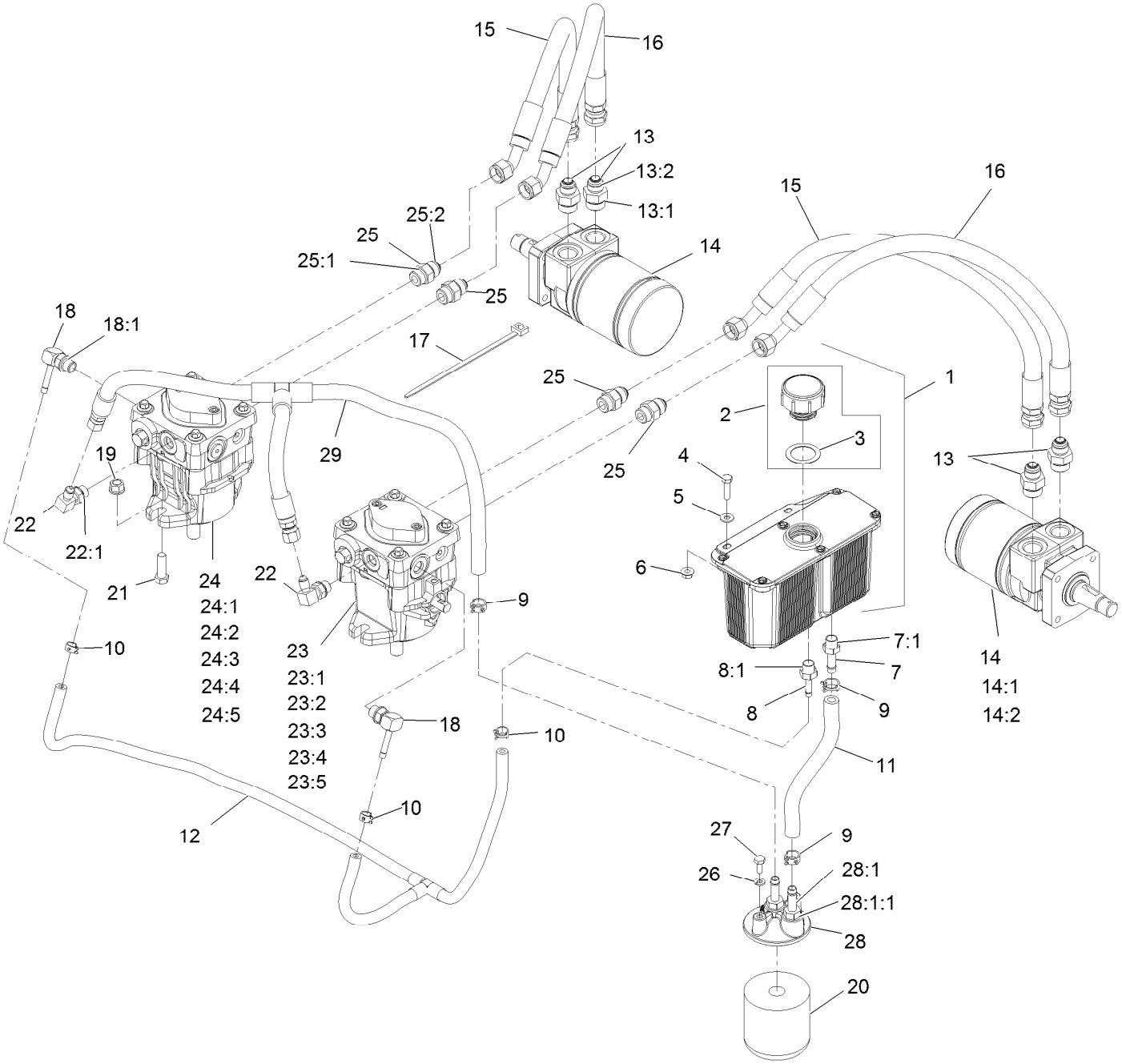
Kohler Replacement Parts List (Refer to Engine Owner's Manual)	
Description	Kohler P/N
Air Filter Element Outer	2508301-S
Air Filter Element Inner	2508304-S

Park Brake and Engine Assembly (continued)

Ref.	Part Number	Qty.	Description
3	1-303335	2	Tie-Cable 7 15/16 (Large)
8	1-633630	2	Grommet
9	3220-3	1	Nut-Jam 3/8-24
10	322-38	1	Screw-HH 5/16-18 X 4 1/2
11	322-6	1	Screw-HH 5/16-18 X 1 1/4
12	3212-10	1	Screw-HH 7/16-20 X 2 1/2 ▲
13	1-603610	2	Washer-Spring Disc 7/16
14	1-633545	2	Spacer
15	1-613235	4	Washer
16	109-4544	1	Lever, Park Brake (109-4543-03) W/Decal And Grip
17	1-303020	1	Grip-Lever
18	3256-24	1	Washer-3/8 Sae
19	322-10	1	Screw-HH 5/16-18 X 2
20	1-413347	2	Sleeve-Bushing
21	3296-39	1	Nut-Nyloc 3/8-16
22	1-806003	1	Hairpin-Cotter
23	109-4078	1	Linkage, Park Brake
24	1-808285	1	Pin-Clevis 3/8 X 1 1/8
25	3272-10	1	Pin-Cotter 1/8 X 3/4
26	1-633131	1	Yoke-Linkage, Brake
27	3290-357	4	Nut-Whizlock 3/8-16
28	116-3515	1	Screw,HH Special 5/16-18 X 1.25
29	1-323161	1	Spring
30	32128-20	6	Nut-Whizlock 5/16-18
31	323-9	1	Screw-HH 3/8-16 X 1 3/4
32	3218-3	1	Nut-Jam 3/8-16
33	116-9159	1	Brake Weldmt
34	323-4	3	Screw-HH 3/8-16 X 3/4
35	1-413344	1	Bushing-Pivot
36	116-8653	1	Muffler
40	116-8654	1	Shield-Muffler
41	116-1103	4	Screw-HH, Thread Forming
42	1-653035	1	Pulley ●
43	1-807259	1	Key-Machine 1/4 X 1/4 X 1
44	103-2240	1	Belt, Deck Drive (52")
45	103-0662	1	Clutch ASM
46	1-633543-03	1	Strap-Clutch, Brake
47	1-323195-03	1	Standoff, Clutch
48	1-303287	1	Tie-Cable 5 1/2 (Small)
49	32128-20	1	Nut-Whizlock 5/16-18
50	116-5316	1	Oil Drain Hose ASM ■
50:1	353-508	1	Plug-W/O-Ring
50:1:1	237-42	1	O-Ring
52	323-6	4	Screw-HH 3/8-16 X 1
53	104-8301	4	Nut-Nyloc 3/8-16 Flg
54	116-8575-03	1	Guard-Air Cleaner
55	1-643312	1	Clip-Loom
56	32128-33	2	Nut-Whizlock 1/4-20
57	321-6	1	Screw-HH 1/4-20 X 1

● Install sheave with long end of hub up.
■ Use a Teflon Pipe Sealant or equivalent on threads.
▲ Use Pro-Lock, Nut Type (P/N 1-840022, .5ml tube) on threads.

Hydraulic Assembly



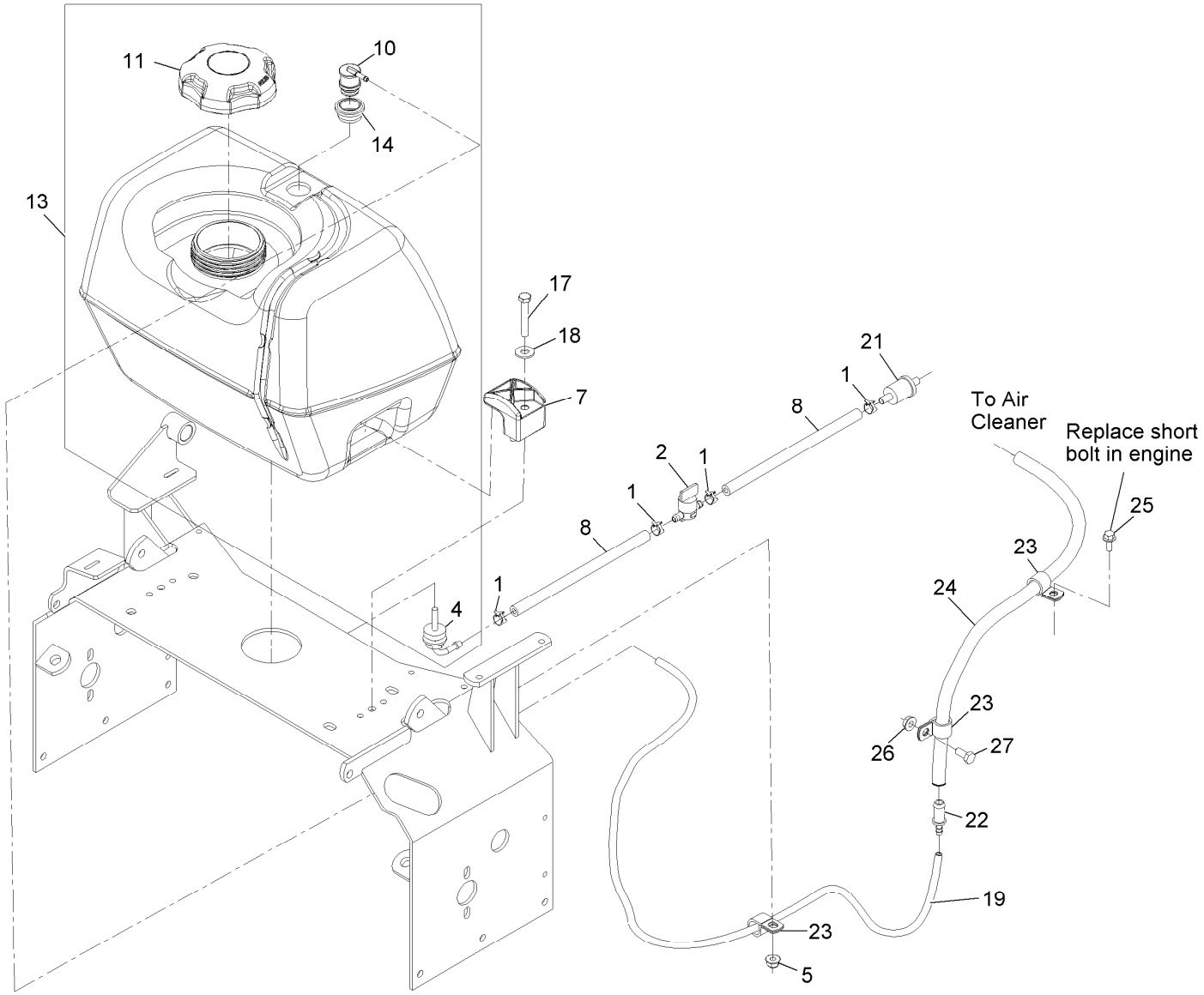
Hydraulic Assembly (continued)

Ref.	Part Number	Qty.	Description
1	103-1947	1	HYD Reservoir ASM
2	103-7615	1	Asm, Cap W/Gasket
3	103-1949	1	Gasket-Cap
4	321-6	2	Screw-HH 1/4-20 X 1
5	3256-22	2	Washer-1/4 Sae
6	32128-33	2	Nut-Whizlock 1/4-20
7	103-1912	1	Adapter-Straight
7:1	1-603921	1	O-Ring-Sae #6
8	103-1801	1	Adapter-Straight
8:1	1-603921	1	O-Ring-Sae #6
9	103-1988	3	Clamp-Hose 11/16
10	103-1716	3	Clamp-Hose 17/32
11	109-1010	1	Hose, Hydraulic
12	103-4607	1	Asm, Case Drain Hose
13	1-603991	4	Adapter-Straight
13:1	1-603919	1	O-Ring-Sae #10
13:2	1-603992	1	O-Ring-37 Flare #8
14	1-603718	2	HYD Motor ASM
14:1	1-000119	1	Seal Kit
14:2	1-000138	1	Bearing And Seal Kit
15	116-8646	2	Hose, Hydro
16	116-8647	2	Hose, Hydro
17	1-303335	1	Tie-Cable 7 15/16 (Large)
18	103-1799	2	Elbow-90 DEG
18:1	1-603921	1	O-Ring-Sae #6
19	32128-43	4	Nut-Whizlock 3/8-16
20	109-4180	1	Element, Oil Filter
20	1-523541	1	Element, Oil Filter (Winter)▲
21	323-7	4	Screw-HH 3/8-16 X 1 1/4
22	103-1802	2	Fitting-HYD, 90 DEG
22:1	1-603921	1	O-Ring-Sae #6
23	116-2495	1	Pump, Hydro RH
23:1	103-2664	1	Input Shaft Kit
23:2	94-6922	1	Bearing-Thrust
23:3	103-2666	1	Cylinder Block Kit
23:4	105-6184	1	Seal Overhaul Kit
23:5	126-2479	1	Kit, Hydro Pump
23:5:1		1	Kit-10Cc Cylinder Block●■
23:5:2		1	Plate, Valve●■
23:5:3		1	Gasket, Housing●■
24	116-2494	1	Pump, Hydro LH
24:1	103-2664	1	Input Shaft Kit
24:2	94-6922	1	Bearing-Thrust
24:3	103-2666	1	Cylinder Block Kit
24:4	105-6184	1	Seal Overhaul Kit
24:5	126-2479	1	Kit, Hydro Pump
24:5:1		1	Kit-10Cc Cylinder Block●■
24:5:2		1	Plate, Valve●■
24:5:3		1	Gasket, Housing●■
25	1-603990	4	Adapter-Straight
25:1	1-603920	1	O-Ring-Sae #8
25:2	1-603992	1	O-Ring-37 Flare #8
26	1-805004	2	Washer-Lock 1/4 Heavy
27	321-3	2	Screw-HH 1/4-20 X 5/8
28	103-2889	1	Filter Head ASM
28:1	103-1912	2	Adapter-Straight
28:1:1	1-603921	1	O-Ring-Sae #6
29	103-4608	1	Asm, Charge Hose

● Not illustrated

■ Not serviced separately

▲ Use only for operation below 32°F (0°C).



Fuel Tank Assembly

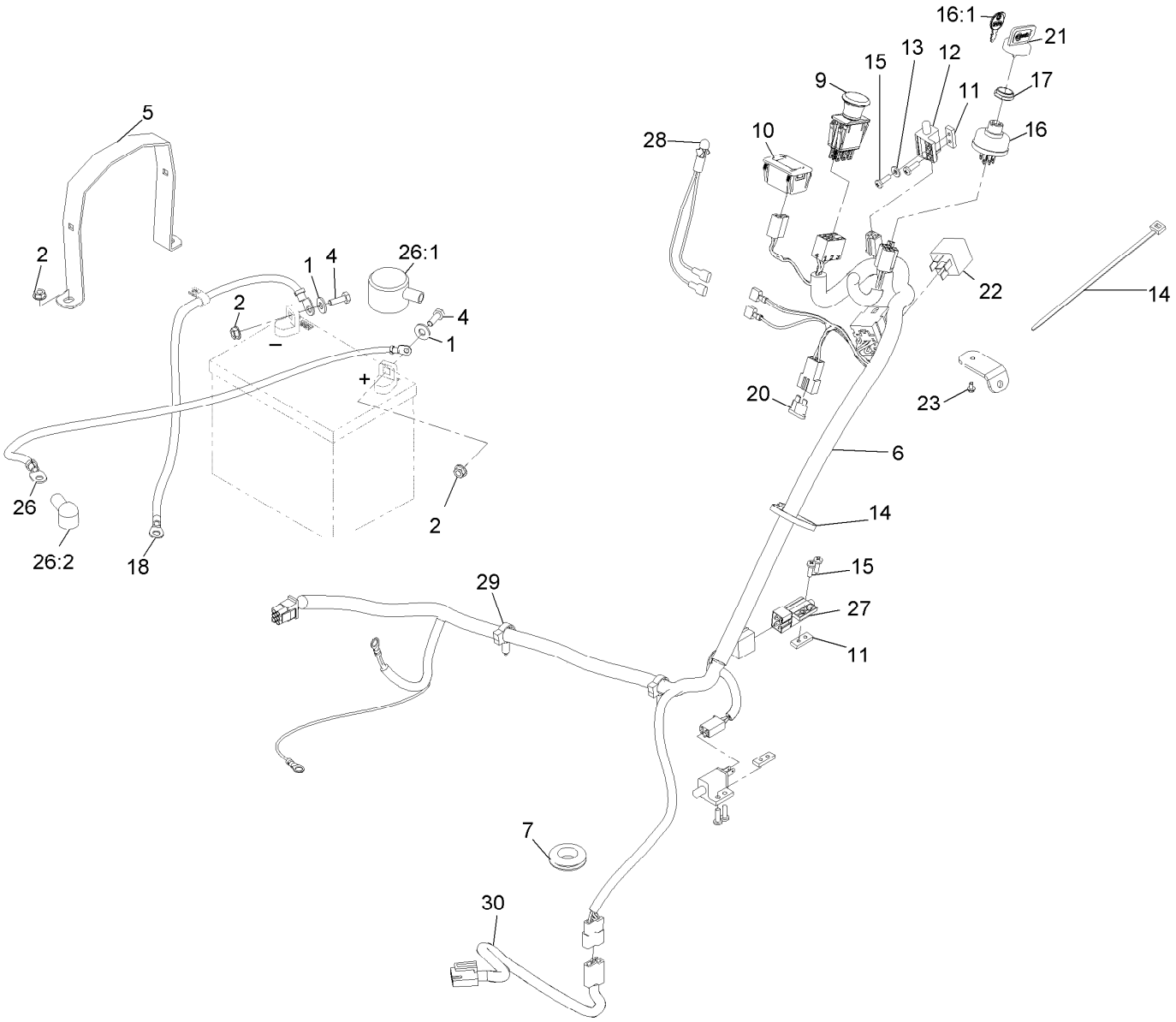
Ref.	Part Number	Qty.	Description
1	2412-98	4	Clamp-Hose
2	1-603770	1	Valve-Fuel
4	103-2605	1	Fitting-Fuel Bulkhead W/Strainer ▲
5	104-8300	2	Nut-Nyloc 5/16-18 Flg
7	107-4543	2	Clamp
8	110-1876	1	Hose-Fuel
10	119-3547	1	Valve-Vent, Fuel
11	115-4465	1	Cap-Fuel, Ratcheting
13	126-1525	1	Asm-Fuel Tank
14	114-0284	1	Grommet

Ref.	Part Number	Qty.	Description
17	322-10	2	Screw-HH 5/16-18 X 2
18	3256-3	2	Washer-5/16 Std
19	126-1679	1	Hose-Fuel
21		1	Pn 24 050 13 Filter-Fuel ■●
22	98-2952	1	Fitting-Straight
23	1-633396	3	Clip-Loom 5/8
24	119-8562	1	Hose-Fuel
25	33103-016	1	Screw-HH Flg M6-1 X 16Mm
26	32128-33	1	Nut-Whizlock 1/4-20
27	321-4	1	Screw-HH 1/4-20 X 3/4

● Not serviced separately

▲ Use Pro-Lock, Nut Type (P/N 1-840022, .5ml tube) on threads.

■ Obtain parts from www.kohlerplus.com



Electrical Assembly

Ref.	Part Number	Qty.	Description
1	3256-2	2	Washer-1/4 Std
2	32128-33	4	Nut-Whizlock 1/4-20
4	321-4	2	Screw-HH 1/4-20 X 3/4
5	1-603814-03	1	Strap, Battery Holddown
6	126-2016	1	Harness, Wiring ●
7	1-543286	1	Grommet
9	103-5221	1	Switch-PTO
10	120-2244	1	Hourmeter
11	1-633181	3	Plate-Tapped
12	1-513051	2	Switch-N.O.
13	3256-14	1	Washer-#10 Std
14	1-303335	2	Tie-Cable 7 15/16 (Large)
15	3290-500	6	Screw-PPH #10-24 X 5/8
16	103-0206	1	Switch-Ignition W/Keys

Ref.	Part Number	Qty.	Description
16:1	1-603511	1	Key-Ignition
17	103-0498	1	Nut-Ignition
18	1-543767	1	Wire-Ground
20	1-816001	1	Fuse-Blade Type, 20 Amp
21	103-2106	1	Key-Exmark Logo
22	1-643275	1	Relay-12Vdc 40 Amp
23	104-2065	1	Screw-HWH #10-24 X 3/8
26	109-7621	1	Positive Battery Cable ASM
26:1	109-2407	1	Insulator-Battery
26:2	1-543393	1	Insulator-Solenoid
27	1-633110	1	Switch
28	1-643267	1	Indicator-Red Led
29	32180-047	1	Clip-Harness
30	126-0624	1	Harness-Clutch Pigtail ●

● Use dielectric grease on all unsealed connectors and terminals only. Do not apply in sealed connectors.



Decals

Ref.	Part Number	Qty.	Description
1	116-4296	1	Decal, Console Ecs
2	116-0404	1	Decal-Hydraulic Tank
3	103-2432	1	Decal, Brake Lever
4	1-403143	1	Decal, Sulky Warning
5	103-4935	1	Decal, Drive Wheel Release
6	117-2718	1	Decal-Arrester, Spark
7	1-413214	1	Decal, Tracking
8	1-303517	1	Decal,Belt Drive
9	103-2242	1	Decal, Ecs Instruction LH
10	103-2243	1	Decal, Ecs Instruction RH
11	1-553049	1	Decal, Mower Deck
12	1-303508	1	Decal-Warning, Discharge
13	98-5954	3	Decal-Cover, Missing
14	109-3148	1	Decal, Bolt Torque
15	103-2239	1	Decal, Belt Routing
16	1-403005	2	Decal-Danger
17	103-2076	2	Decal-Caution
18	116-3883	2	Decal-X-Series
19	116-0034	1	Decal,Ultracut 52 Series 4
20	103-3013	1	Decal, Turf Tracer
21	103-2882	1	Decal, Exmark Logo
99	103-5828	1	Kit, Decal Complete ●

● Not illustrated

EXMARK® MAINTENANCE

MAXIMIZE THE PERFORMANCE OF YOUR EXMARK.

4-CYCLE PREMIUM ENGINE OIL
Part No. 116-3373

Both SAE 30 and SAE 10W-30 in one bottle.

Contains increased levels of zinc and phosphorus for better lubricity.

No Viscosity Index Improvers that tend to shear down in high heat.

Synthetic formulation.

Gas & Diesel compatible.

Anti-corrosion additives.

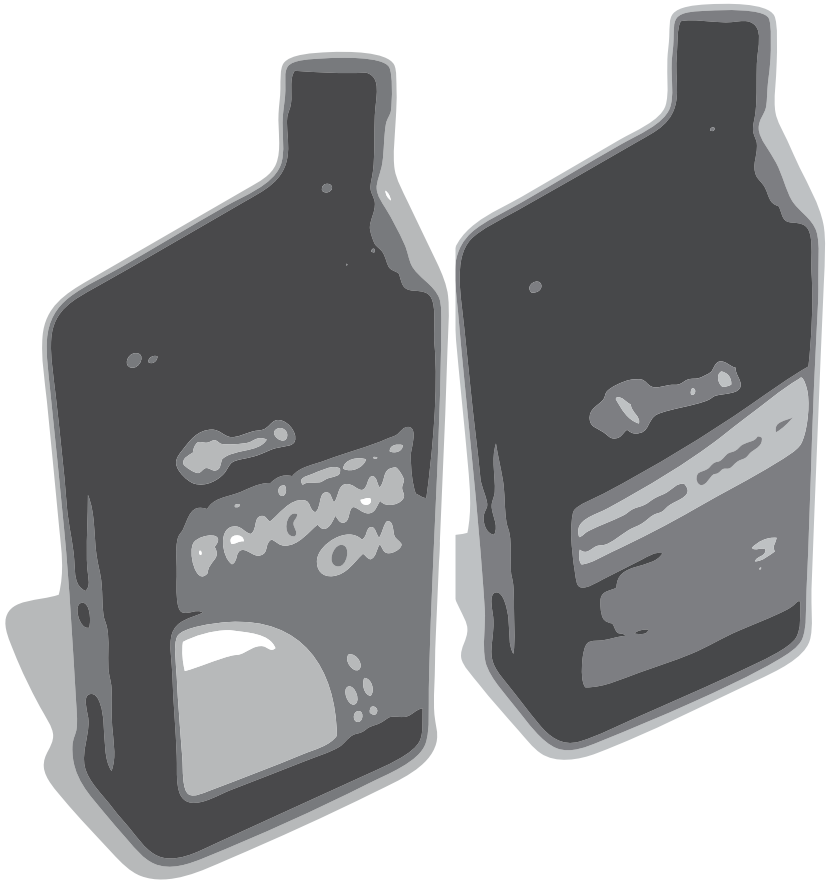
API 'SL' and JASO rated with wet clutch compatibility for other machines.

PREMIUM HYDRO OIL
Part No. 109-9828

Commercial quality for tough, high-heat conditions.

Designed specifically for zero-turn mower hydraulic systems.

Superior shear resistance under heavy loads.



Available from your local Exmark dealer. Find your closest dealer at exmark.com

EXMARK ACCESSORIES AND OPTIONS*

MID-MOUNT RIDING ACCESSORIES AND OPTIONS

CUSTOM RIDE SEAT SUSPENSION SYSTEM
FULL SUSPENSION SEAT
DECK LIFT ASSIST KIT
HITCH KIT
LIGHT KIT
12V POWER PORT
MICRO-MULCH SYSTEM
OPERATOR CONTROLLED DISCHARGE
SUN SHADE
TRASH CONTAINER
TURF STRIPER
ULTRA VAC COLLECTION SYSTEM
ULTRA VAC QUICK DISPOSAL SYSTEM

OUT-FRONT RIDING ACCESSORIES AND OPTIONS

CUSTOM RIDE SEAT SUSPENSION SYSTEM
DUAL-TAIL WHEEL
FLOOR PAN EXTENDER
HITCH KIT
LIGHT KIT
MICRO-MULCH SYSTEM
ROLL OVER PROTECTION SYSTEM (ROPS)
SNOW BLADE
SNOWBLOWER
SUN SHADE
TRASH CONTAINER
ULTRA VAC COLLECTION SYSTEM
ULTRA VAC QUICK DISPOSAL SYSTEM
WEATHER CAB

WALK-BEHIND ACCESSORIES AND OPTIONS

GRASS CATCHER
MICRO-MULCH SYSTEM
TURF STRIPER
STANDON

*Some accessories and options not available for some models.

Place Model No. and Serial No. Label Here (Included in the Literature Pack) or Fill in Below

Model No. _____

Serial No. _____

Date Purchased _____

Engine Model No. and Spec. No. _____

Engine Serial No. (E/No) _____

© 2013 Exmark Mfg. Co., Inc.
All Rights Reserved

Industrial Park Box 808
Beatrice, NE 68310
(402) 223-6300
Fax (402) 223-5489

Part No. 4501-895 Rev. A
Printed in the USA.

www.exmark.com