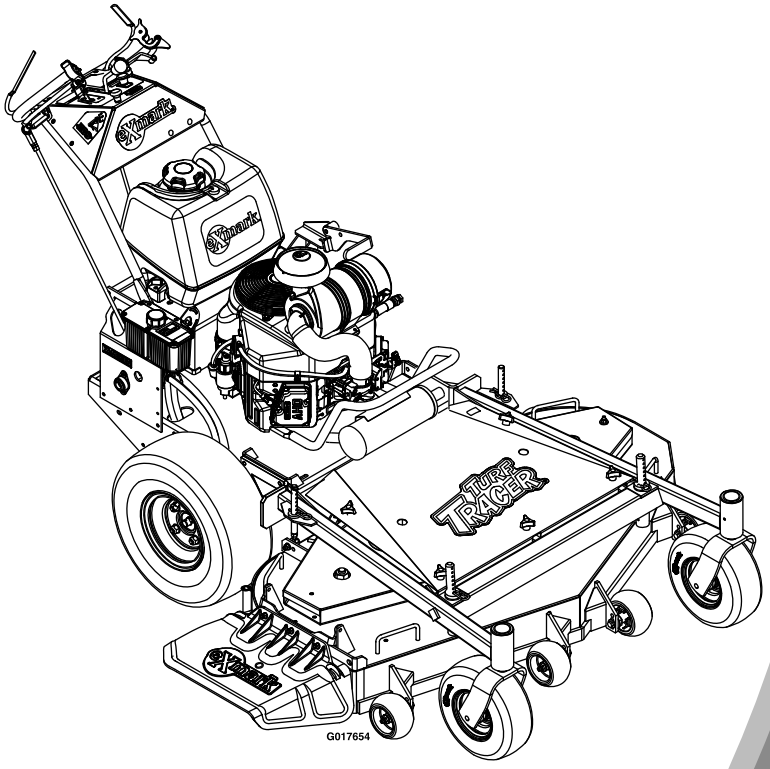
TURF TRACER®
X-SERIES

Model No. TTX691KAE—Serial No. 312000000 and Up

Picture below may not reflect actual product.



Parts Manual

Part No. 4500-969 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: Liquid Propane

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).

© 2011—Exmark Mfg. Co., Inc.
Industrial Park Box 808
Beatrice, NE 68310

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

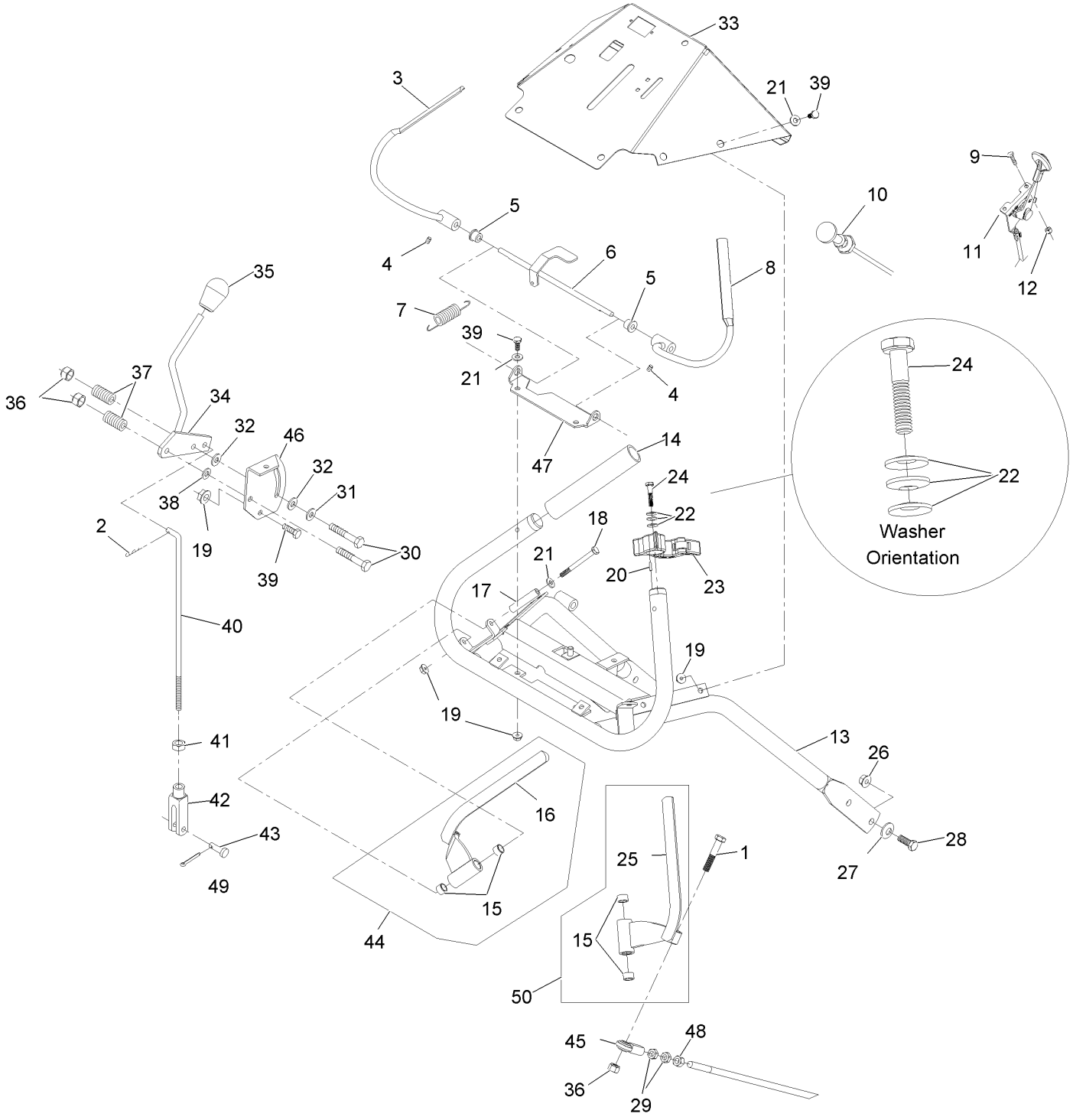


If your Exmark dealer does not have the Exmark part in stock, Exmark will get the parts to the dealer the next business day or the part will be FREE Guaranteed!! (Some restrictions apply. See your participating Exmark Dealer for details.)

Contents

ECS Upper Handles and Controls Assembly 4
Engine Deck Assembly 6
Park Brake and Engine 8
Fuel Tank Assembly 10
Hydraulics Assembly 11
Electrical Assembly 12
Decals 13

ECS Upper Handles and Controls Assembly

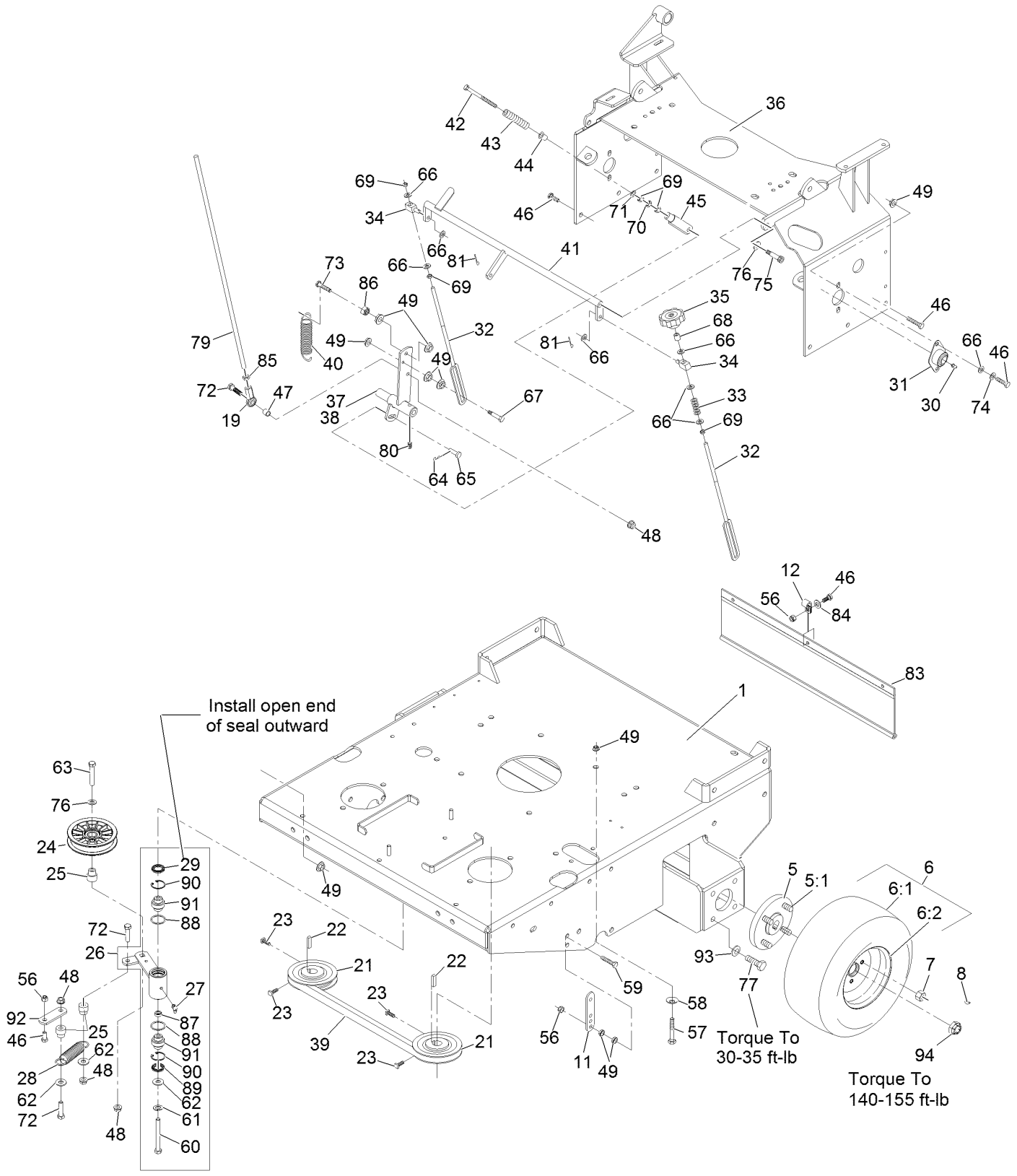


ECS Upper Handles and Controls Assembly (continued)

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	Wld, Opc Axle Lever
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
10	110-5720	1	Control-Choke, Push / Pull
11	116-2426	1	Cable, Throttle
12	3296-2	2	Nut-Nyloc #10-24
13	103-1537-03	1	Handle Weldmt, 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(Shown)
23	103-1372	1	Thumb Latch Asm LH(Not Shown) ●
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	109-4508	1	Console 109-4506-03 W/ Decals
34	116-4083	1	Wld, Speed Shift
35	103-0423	1	Knob-Nyloc 3/8-16
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	10	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

● 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

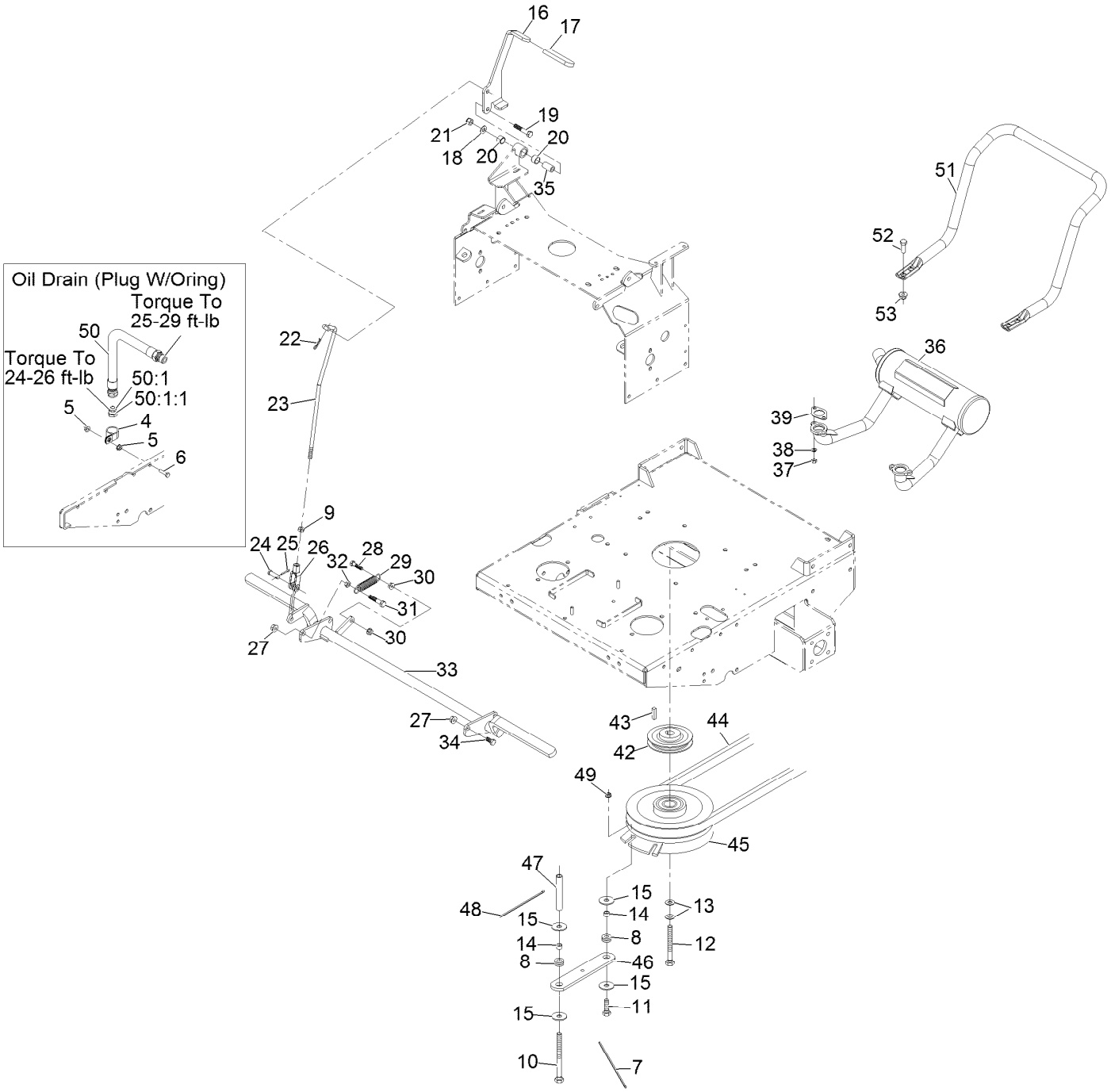


Engine Deck Assembly (continued)

Ref.	Part Number	Qty.	Description
1	116-6130	1	Eng Deck (116-6082-01) W/ Decals
5	1-602997	2	Hub ASM W/Studs
5:1	1-633926	8	Stud-Wheel
6	103-1715	2	Tire And Wheel Assy
6:1	103-2237	2	Tire
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	1-803050	4	Setscrew-5/16-18 X 3/4 ■
24	109-4077	1	Pulley-Idler, Flat
25	1-603496	3	Bushing-Idler
26	109-2578	1	Kit, Idler Arm W/Bearings
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 Weldment
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	23	Nut-Whizlock 5/16-18
56	3296-29	6	Nut-Nyloc 5/16-18
57	323-7	4	Screw-HH 3/8-16 X 1 1/4
58	98-5975	4	Washer-Spring Disc 3/8
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 1/4 Sp
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.

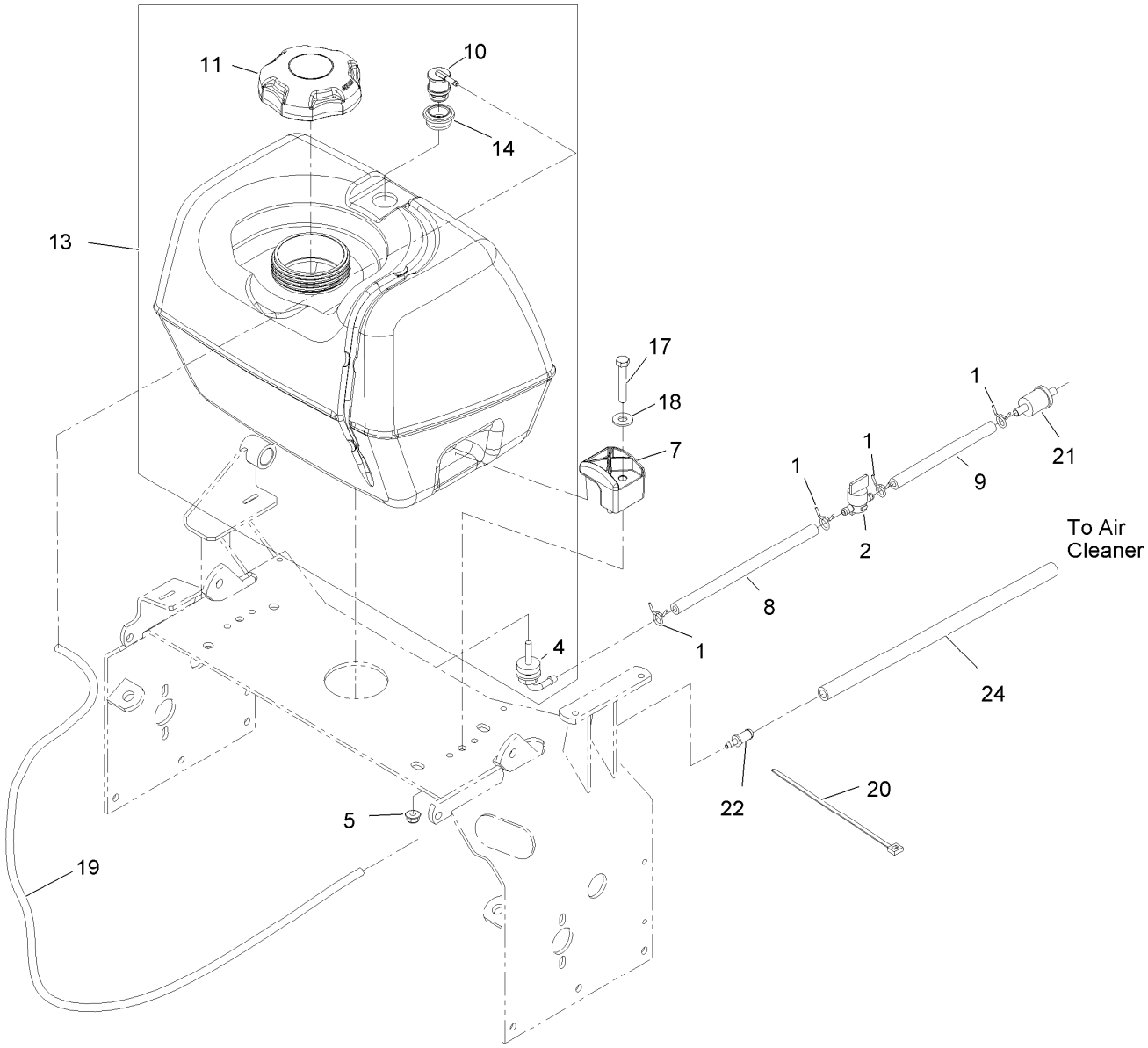
Park Brake and Engine



Park Brake and Engine (continued)

Ref.	Part Number	Qty.	Description
4	1-643312	1	Clip-Loom
5	32128-33	2	Nut-Whizlock 1/4-20
6	321-6	1	Screw-HH 1/4-20 X 1
7	1-303335	1	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
11	322-6	1	Screw-HH 5/16-18 X 1 1/4
12	3212-12	1	Screw-HH 7/16-20 X 3 ▲
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 W/Decal & 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	103-2205-03	1	Brake Weldmt
34	323-4	3	Screw-HH 3/8-16 X 3/4
35	1-413344	1	Bushing-Pivot
36	116-3736	1	Muffler
37	114-3549	2	Nut-M8
38	114-3550	2	Washer-Lock, Spring
39	1-653313	2	Gasket-Exhaust
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)
44	1-603306	1	Belt, Deck Drive(60)
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	116-4924	1	Asm-Hose Oil Drain W/Plug ■
50:1	353-508	1	Plug-W/O-Ring
50:1:1	237-42	1	O-Ring
51	116-6278-03	1	Guard-Muffler
52	323-6	4	Screw-HH 3/8-16 X 1
53	104-8301	4	Nut-Nyloc 3/8-16 Flg

● 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.

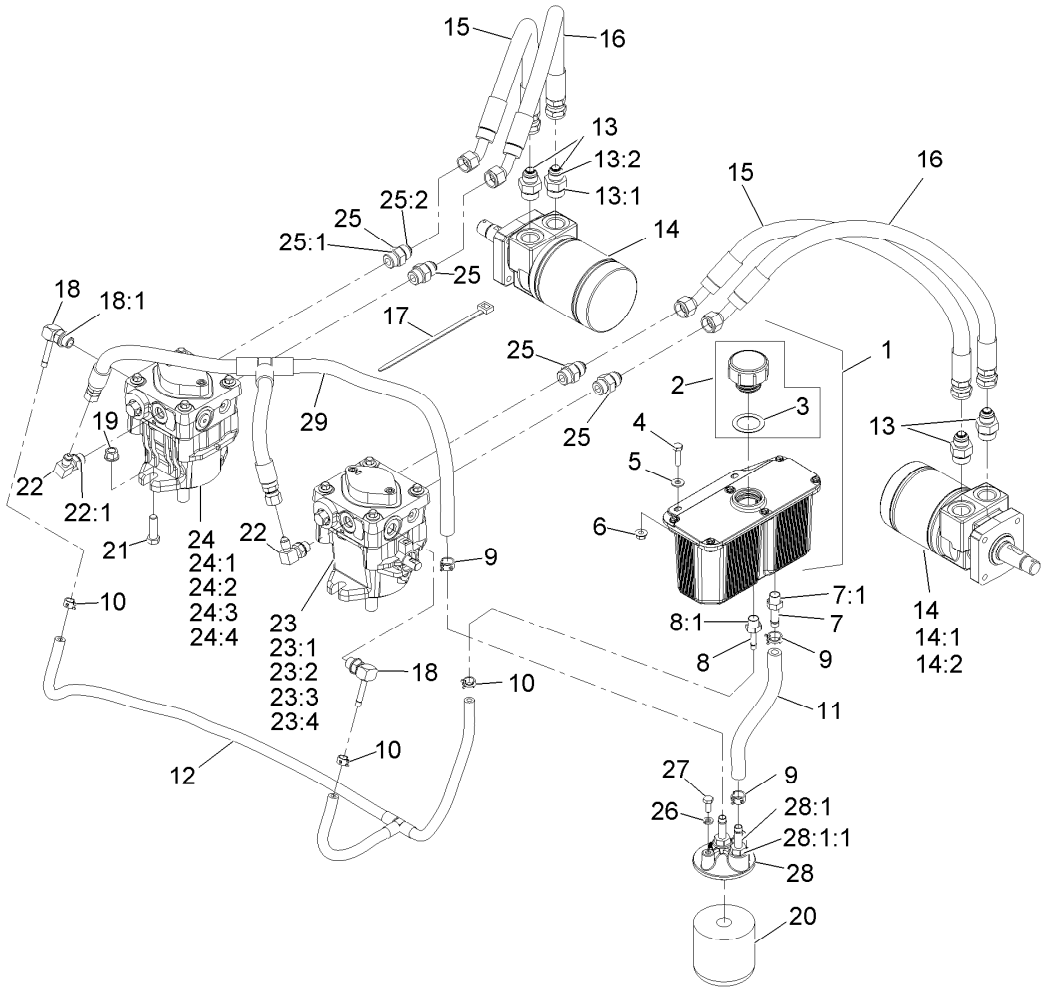


Fuel Tank Assembly

Ref.	Part Number	Qty.	Description
1	1-303077	4	Clamp-Fuel Line
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	109-0304	1	Hose-Fuel Line 2 1/2"
9	109-0304	1	Hose-Fuel Line 2 1/2"
10	114-0285	1	Valve-Rollover
11	115-4465	1	Cap-Fuel, Ratcheting

Ref.	Part Number	Qty.	Description
13	116-3656	1	Asm-Fuel Tank
14	119-6549	1	Grommet-Valve, Roll-Over
17	322-10	2	Screw-HH 5/16-18 X 2
18	3256-3	2	Washer-5/16 Std
19	116-4346	1	Hose-Emissions
20	1-303335	1	Tie-Plastic
21		1	Pn 41019-1055 Filter W/6In Fuel Line ■ ●
22	98-2952	1	Fitting-Straight
24	116-4344	1	Hose-Fuel

● Not serviced separately
▲ Use Pro-Lock, Nut Type (P/N 1-840022, .5ml tube) on threads.
■ Obtain parts from www.kawpowerepc.com

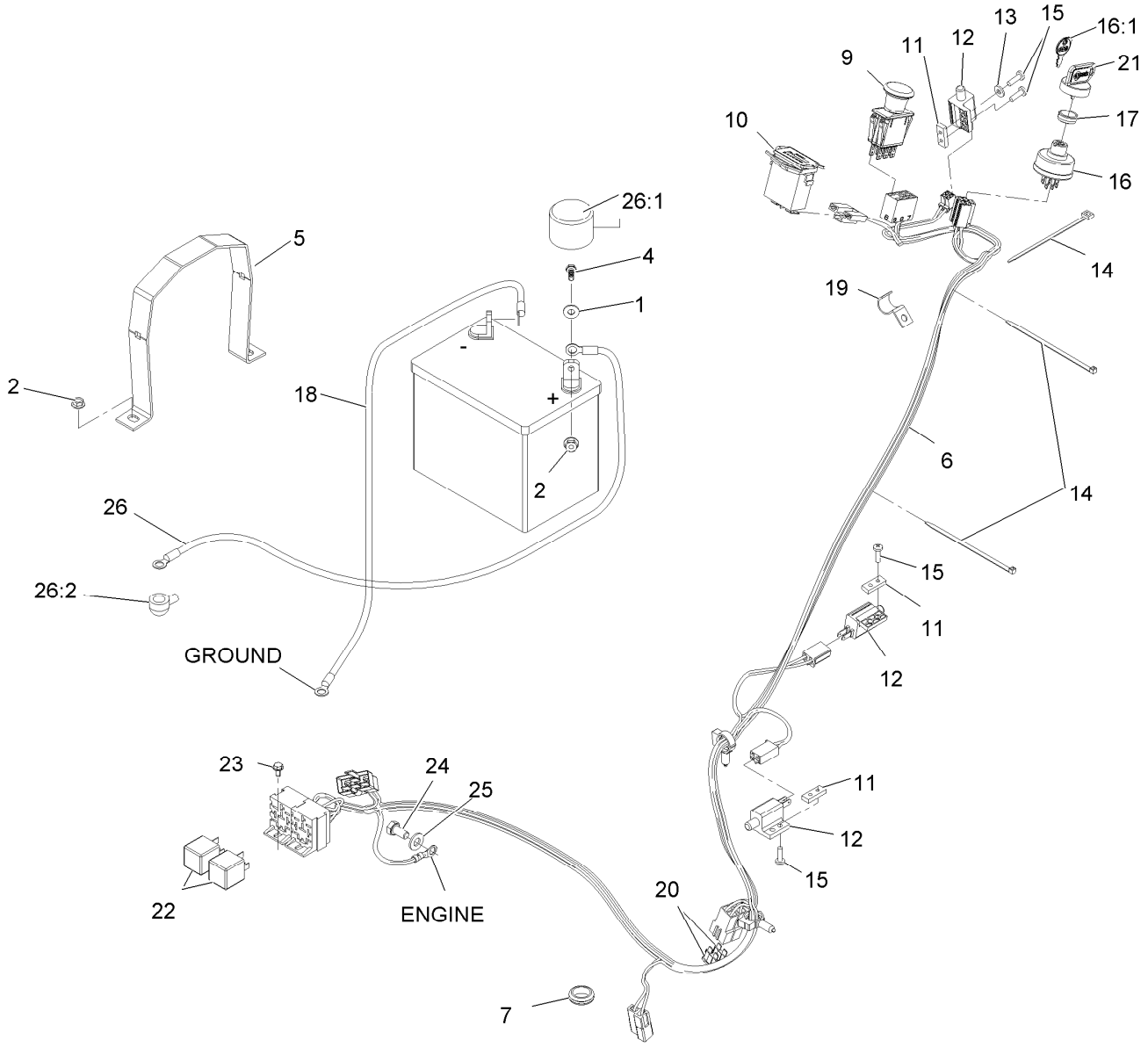


Hydraulics Assembly

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, Charge
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	103-4609	2	Hose, Hydro
16	103-4610	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

Ref.	Part Number	Qty.	Description
20	109-4180	1	Filter,25 Micron Bi-Directional
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
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
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

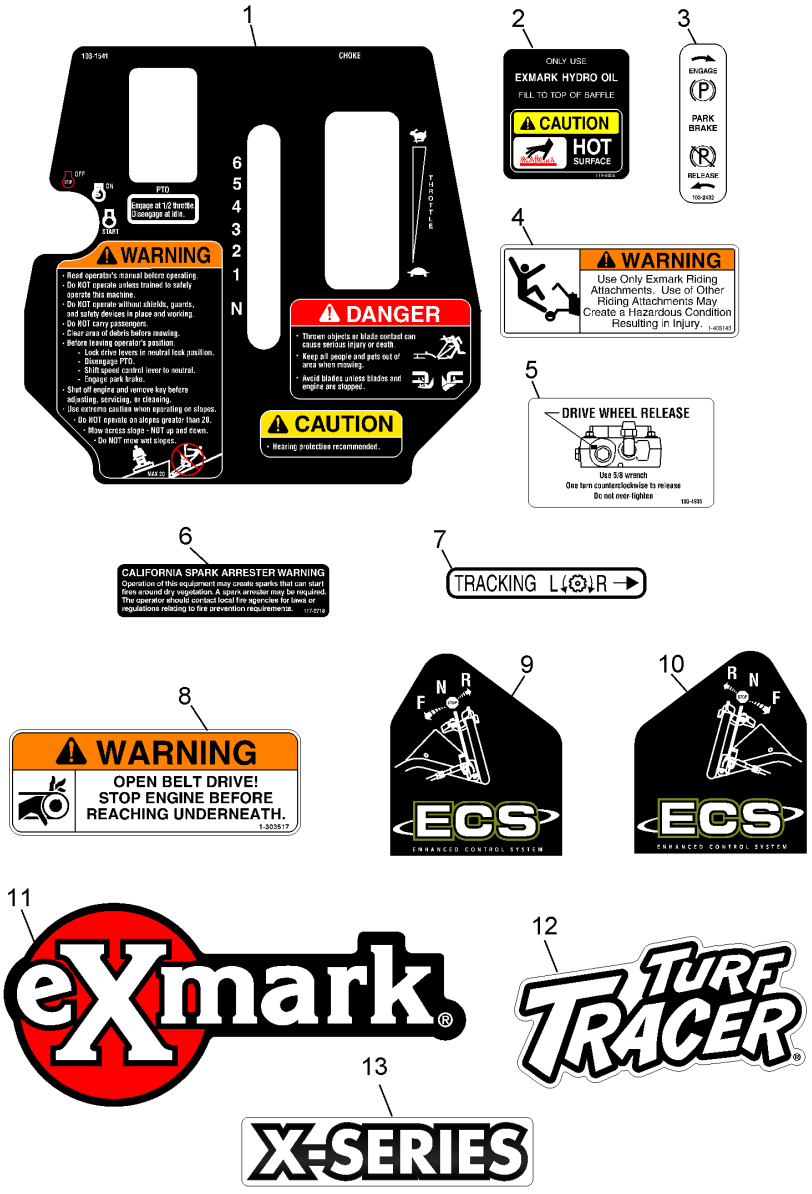
● Use only for operation below 32°F (0°C).



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	116-2561	1	Harness, Wiring
7	1-543286	1	Grommet
9	103-5221	1	Switch-PTO
10	1-513374	1	Meter-Engine Hours
11	1-633181	3	Plate-Tapped
12	1-513051	3	Switch-N.O.
13	3256-14	1	Washer-#10 Std
14	1-303335	3	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
19	103-1193	2	Clip-Loom Half
20	1-816001	2	Fuse-Blade Type, 20 Amp
21	103-2106	1	Key-Exmark Logo
22	1-643275	2	Relay-12Vdc 40 Amp
23	104-2065	2	Screw-HWH #10-24 X 3/8
24	33114-016	1	Screw-HH M8-1.25 X 16Mm
25	33094-00	1	Washer
26	109-7630	1	Positive Battery Cable ASM
26:1	109-2407	1	Insulator-Battery
26:2	1-543393	1	Insulator-Solenoid



Decals

Ref.	Part Number	Qty.	Description
1	103-1541	1	Decal, Console Ecs
2	116-0404	1	Decal-Hydraulic Tank
3	103-2432	1	Decal, Park Brake
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, LH Ecs Instruction
10	103-2243	1	Decal, RH Ecs Instruction
11	103-2882	1	Decal,Exmark Logo
12	103-3013	1	Decal-Turf Tracer
13	116-3883	2	Decal-X-Series
99	103-5828	1	Kit-Decal ●

● Not illustrated

Notes:

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.

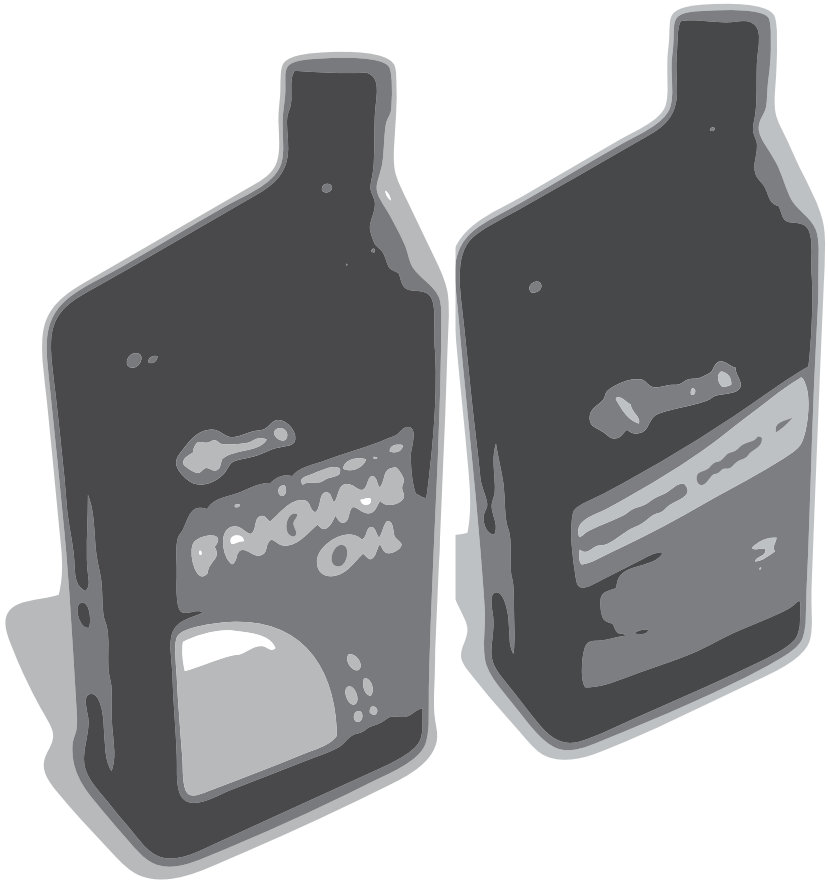
API 'SL' and JASO rated with wet clutch compatibility for other machines.

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) _____

© 2011 Exmark Mfg. Co., Inc.
All Rights Reserved

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

Part No. 4500-969 Rev. A
Printed in the USA.

www.exmark.com