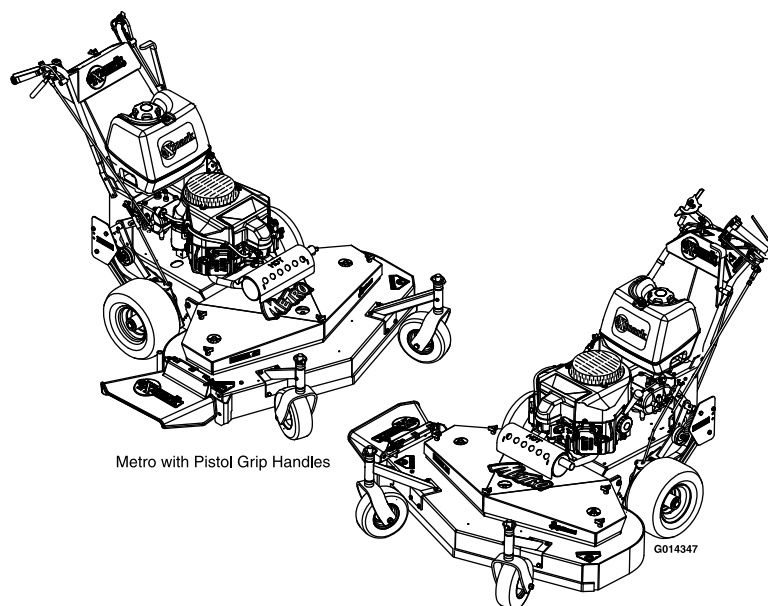




METRO®

Model No. MG16KA483CA—Serial No. 920000 and Up



Metro with Pistol Grip Handles

Metro with ECS Handles

Parts Manual

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).

EXMARK PARTS PLUS

PARTS
OVERNIGHT
OR *FREE**

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.)

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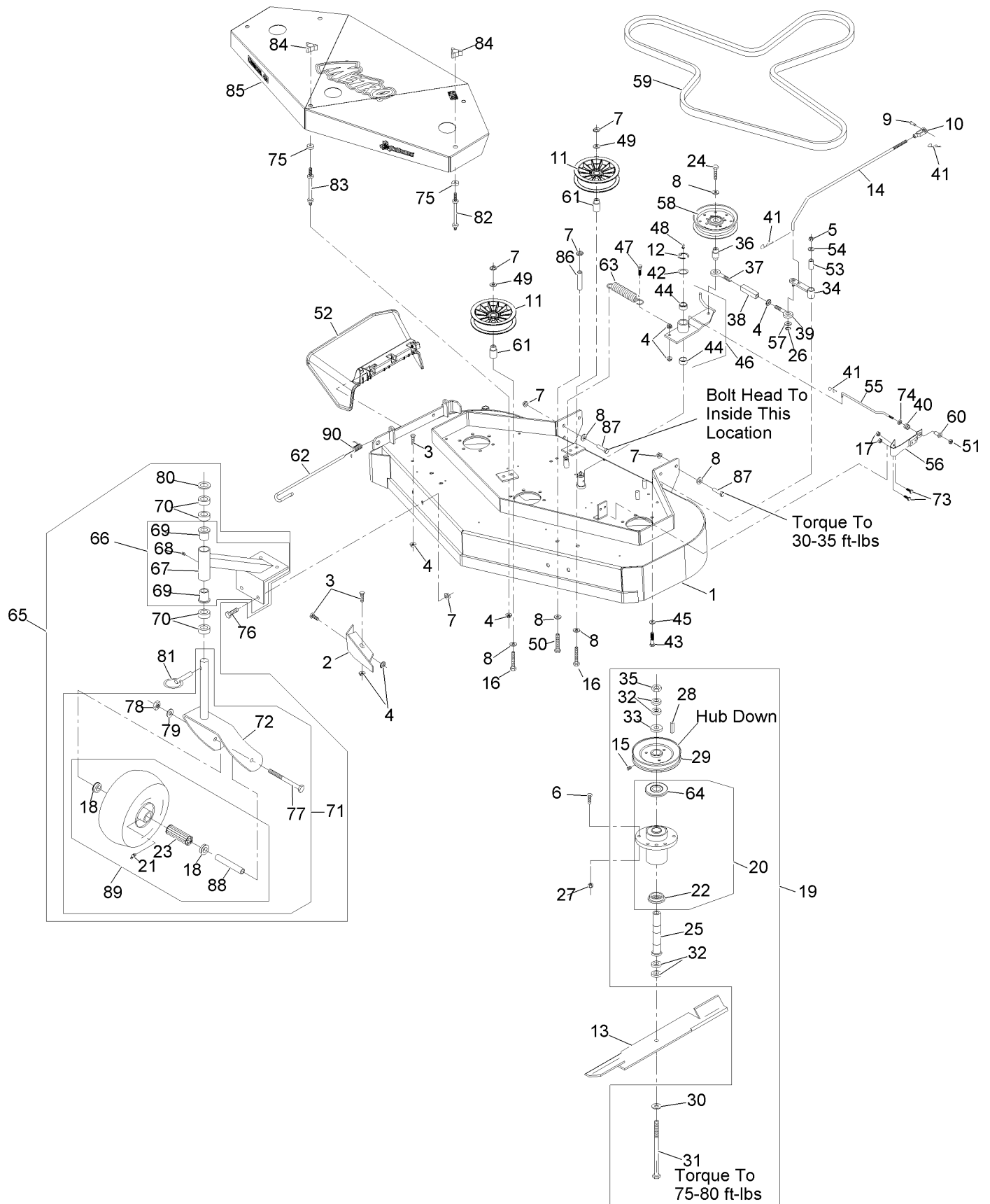
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Mower Deck Assembly



Mower Deck Assembly (continued)

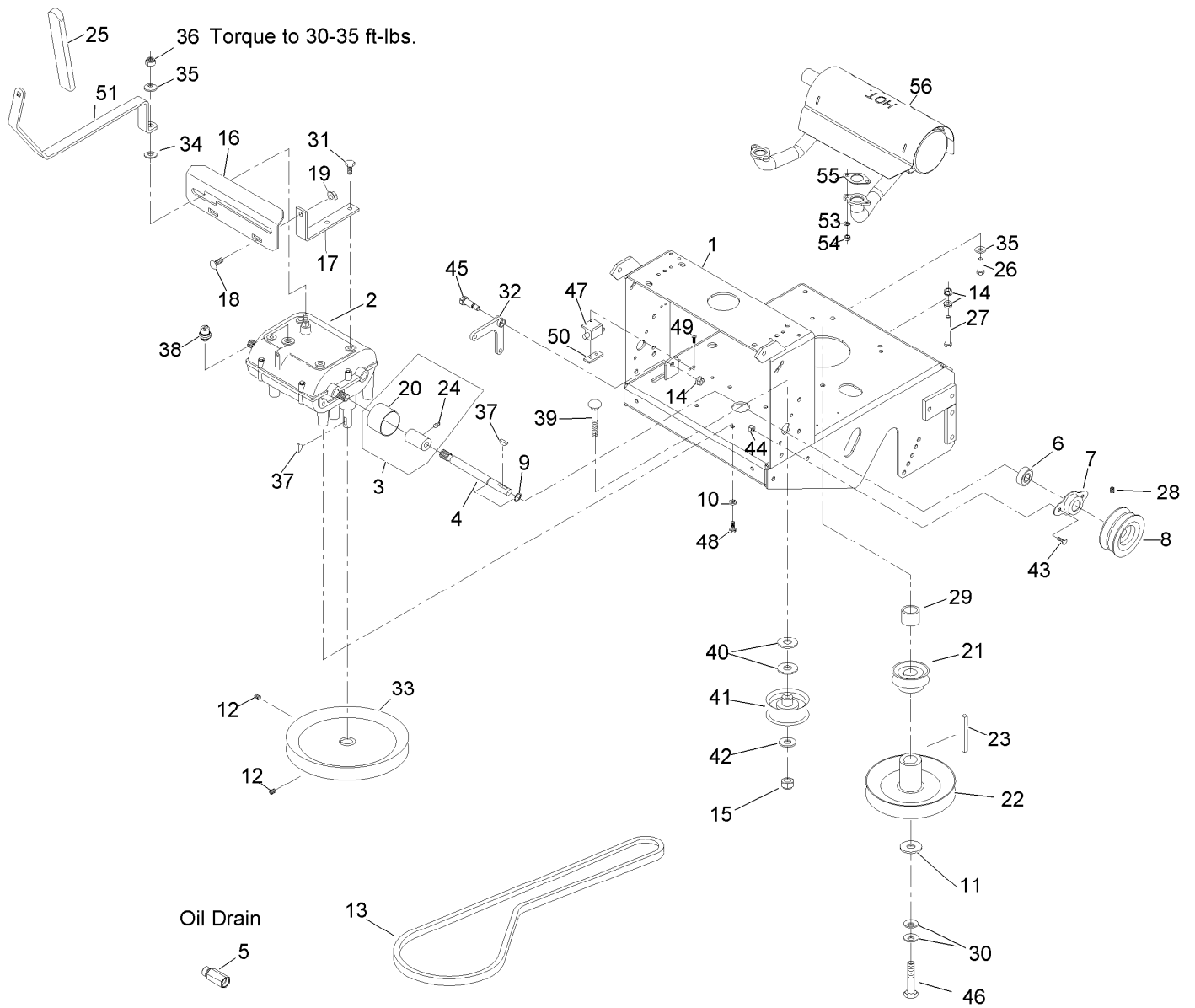
Ref.	Part Number	Qty.	Description	Ref.	Part Number	Qty.	Description
1	109-2601	1	Deck (116-0617-01)W/Decals	46	103-3600	1	Idler Arm ASM
			Dogleg & Discharge	47	116-3515	1	Screw,HH Special 5/16-18 X 1.25
			Deflector	48	302-19	1	Zerk-1/4-28 Str
2	1-402107-01	1	Baffle-Dogleg	49	3256-24	2	Washer-3/8 Sae
3	322-2	3	Screw-HH 5/16-18 X 5/8	50	323-20	1	Screw-HH 3/8-16 X 3-1/4
4	32128-20	11	Nut-Whizlock 5/16-18	51	3296-56	1	Nut-Nyloc 1/4-20 Thin
5	3296-29	1	Nut-Nyloc 5/16-18	52	109-5151	1	Deflector, Discharge
6	323-7	18	Screw-HH 3/8-16 X 1 1/4	53	1-403179	1	Tube-Pivot
7	3290-357	19	Nut-Whizlock 3/8-16	54	3256-3	1	Washer-5/16 Std
8	98-5975	12	Washer-Spring Disc 3/8	55	1-323714	1	Rod-Brake
9	1-808280	1	Pin-Clevis 5/16 X 1 49/64	56	1-324372	1	Pad And Spring ASM
10	1-303105	1	Yoke-Adjustable	57	3256-23	1	Washer-5/16 Sae
11	109-0977	2	Pulley,Idler 5"	58	1-603843	1	Pulley-Idler
12	32151-103	1	E-Ring	59	1-403174	1	Belt, Drive (Main Deck)
13	103-6583	3	Blade, Notched	60	1-323746	1	Spacer-Flanged
13	103-6581	3	Blade, Mulching ■	61	1-413113	2	Bushing-Idler
13	103-6738	3	Blade, Low Lift	62	109-8854	1	Pin-Chute
13	103-1577	3	Blade, Solid	63	1-323071	1	Spring-Extension
13	103-6336	3	Blade, Extreme	64	103-1330	3	Guard-Bearing Top ▲
14	1-323303	1	Linkage-Arm	65	103-2281	2	Asm, Caster/Mnt Complete, Weighted
15	1-803310	3	Setscrew-5/16-18 X 3/8 ●	66	103-2296	2	Asm, Caster Wheel Support W/Bearings, Weighted
16	323-13	2	Screw-HH 3/8-16 X 2 3/4	67	103-2297-01	2	Wld, Caster Wheel Support, Weighted
17	3296-42	2	Nut-Nyloc 1/4-20	68	302-52	2	Zerk-1/8-27 Str
18	1-513810	4	Bushing-Flanged	69	1-303514	4	Bearing-Flanged
19	103-8387	3	Asm, Cutter Housing Complete	70	1-303314	8	Spacer-Caster
20	103-8280	3	Kit, Cutter Housing ▲	71	103-1236	2	Asm, Caster Wheel Assembly
21	302-61	2	Zerk-45° 1/4-28	72	1-322145-01	2	Fork
22	103-2535	3	Spacer-Guard Bottom	73	321-4	2	Screw-HH 1/4-20 X 3/4
23	1-513809	2	Bearing	74	1-323748	1	Ring-Push On
24	702809	1	Screw-HH	75	1-323417	5	Washer-Belt Shield
25	1-323529	3	Tube-Spindle, Short ▲	76	323-4	8	Screw-HH 3/8-16 X 3/4
26	32120-35	1	E-Ring	77	325-20	2	Screw-HH 1/2-13 X 6
27	3296-39	18	Nut-Nyloc 3/8-16	78	3217-9	2	Nut-Hex 1/2-13
28	1-807267	3	Key-Machine 1/4 X 3/16 X 1 1/4	79	3253-7	2	Washer-Lock 1/2
29	1-403183	3	Sheave ▲	80	1-513338	2	Washer
30	1-513208	3	Washer-Spring Disc 5/8	81	1-809020	2	Pin
31	1-800861	3	Screw-Cap, HH	82	1-303537	2	Stud-Shield, Belt (Short)
32	1-323539	12	Spacer-Blade Drive	83	1-303536	3	Stud-Shield, Belt (Long)
33	1-323339	3	Washer	84	1-323385	5	Knob-3 Prong
34	1-322235	1	Arm-Assist	85	116-2707	1	Shield (1-402100-01)W/Decals 48?
35	3219-6	3	Nut-Hex 5/8-18	86	1-403188	1	Spacer
36	1-303434	1	Bushing-Engagement	87	323-8	8	Screw-HH 3/8-16 X 1 1/2
37	1-303348	1	Eyebolt-Thread, LH	88	1-513547	2	Spacer
38	1-303236	1	Body-Turnbuckle	89	103-2171	2	Kit, Tire & Wheel Asm W/ Spacer
39	1-303238	1	Eyebolt-Thread, RH	90	116-0962	1	Spring, Torsion
40	1-323747	1	Spring-Compression				
41	1-806003	3	Hairpin-Cotter				
42	1-303352	1	Washer-Spindle				
43	322-10	1	Screw-HH 5/16-18 X 2				
44	1-323729	2	Sleeve-Bearing				
45	1-303334	1	Washer-Spring Disc 5/16				

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

■ 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.

Engine Deck Assembly



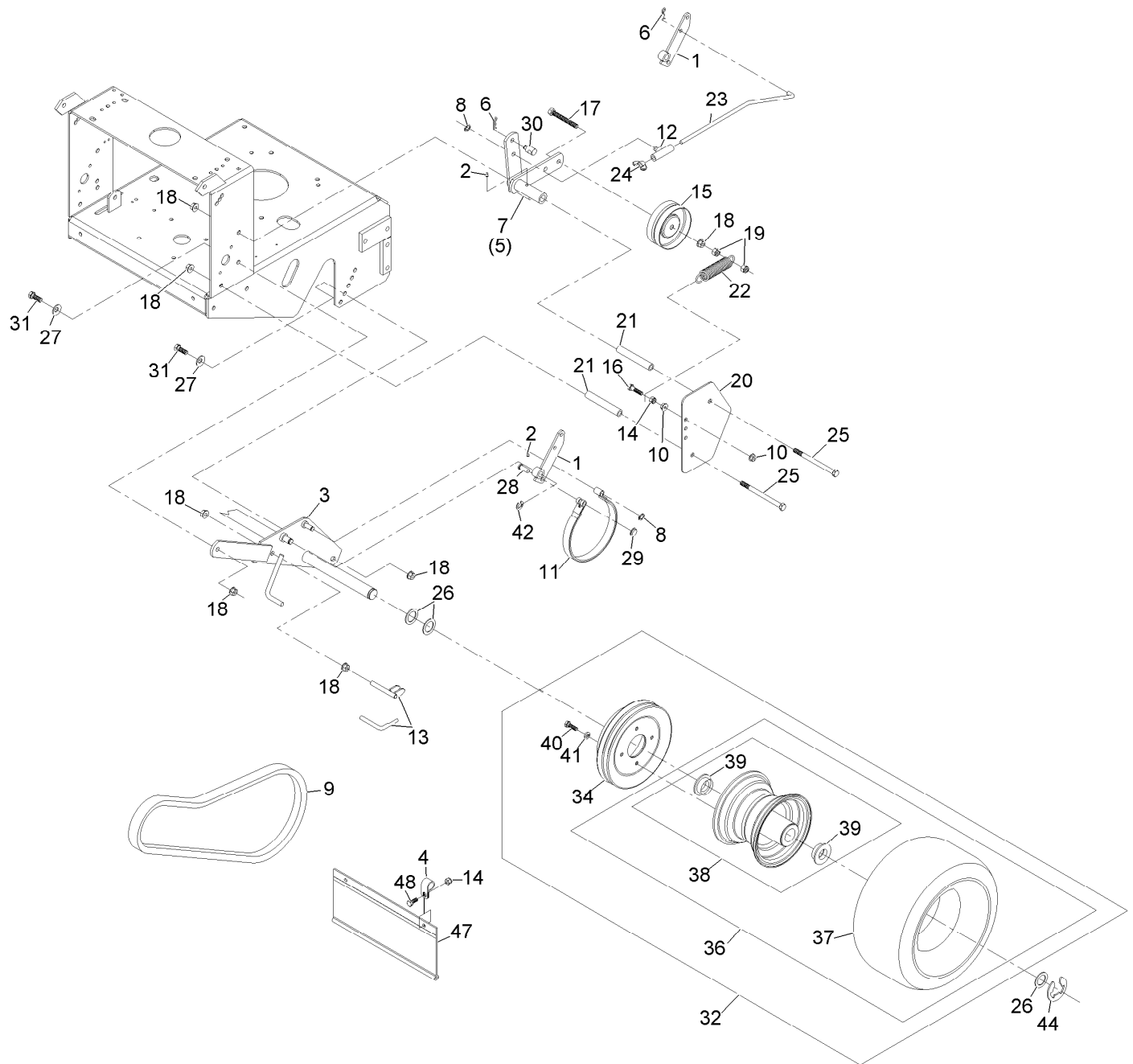
Engine Deck Assembly (continued)

<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>	<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>
1	103-3499	1	Rear Deck (117-3521-01) W/Decals	27	323-13	1	Screw-HH 3/8-16 X 2 3/4
2	1-323500	1	Transmission	28	1-803310	2	Setscrew-5/16-18 X 3/8 ■
3	1-324340	2	Asm, Coupling, W/Guard And Zerk	29	1-633453	1	Spacer-Clutch
4	1-323502	2	Shaft-Transmission	30	1-603610	2	Washer-Spring Disc 7/16
5	103-2587	1	Adapter	31	9264964	4	Bolt-HWH 5/16-18 X 3/4 Tap
6	1-323252	2	Bearing-Shaft ●	32	1-303186	1	Bellcrank
7	1-323254	2	Flange-Output	33	1-323278	1	Sheave-Transmission ●
8	103-6511	2	Sheave-Transmission ●	34	1-323379	1	Washer
9	32151-62	2	Ring-Retaining	35	98-5975	5	Washer-Spring Disc 3/8
10	1-805005	4	Washer-Lock 5/16 Heavy	36	3296-6	1	Nut-Nyloc 3/8-24
11	1-373034	1	Washer	37	3257-5	3	Key-Woodruff #9 3/4 X 3/16
12	3245-41	2	Setscrew-1/4-20 X 3/8 ■	38	1-303282	1	Switch-Start, Neutral
13	1-323280	1	Belt, Transmission	39	3231-6	1	Bolt-Carriage 3/8-16 X 2
14	3290-357	3	Nut-Whizlock 3/8-16	40	3256-5	2	Washer-7/16 Std
15	3296-39	1	Nut-Nyloc 3/8-16	41	1-323285	1	Pulley-Idler, Flat
16	103-3498	1	Shifter Plate (1-323387-03) W/Decals	42	3256-24	1	Washer-3/8 Sae
17	1-323389-03	2	Bracket-Plate, Shift	43	321-3	4	Screw-HH 1/4-20 X 5/8
18	3230-1	2	Bolt-Carriage 5/16-18 X 3/4	44	3296-42	4	Nut-Nyloc 1/4-20
19	32128-20	2	Nut-Whizlock 5/16-18	45	1-603403	1	Bolt-Shoulder
20	51-4220	2	Guard-Coupler	46	116-3702	1	Screw, HH 7/16-20 X 1 1/4 ■
21	103-1666	1	Sheave-Transmission ●	47	1-513051	1	Switch-N.O.
22	103-1667	1	Sheave ●	48	322-3	4	Screw-HH 5/16-18 X 3/4
23	103-4177	1	Key	49	3290-500	2	Screw-PPH #10-24 X 5/8
24	302-19	2	Zerk-1/4-28 Str	50	1-633181	1	Plate-Tapped
25	103-1733	1	Grip	51	103-1606	1	Asm Shift Lever, W/Grip
26	323-7	4	Screw-HH 3/8-16 X 1 1/4	53	114-3550	4	Washer-Lock, Spring
				54	114-3549	4	Nut-M8
				55	1-653313	2	Gasket-Exhaust
				56	116-4397	1	Muffler

● Apply anti-seize compound in bore.

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

Engine Deck Assembly (cont.)

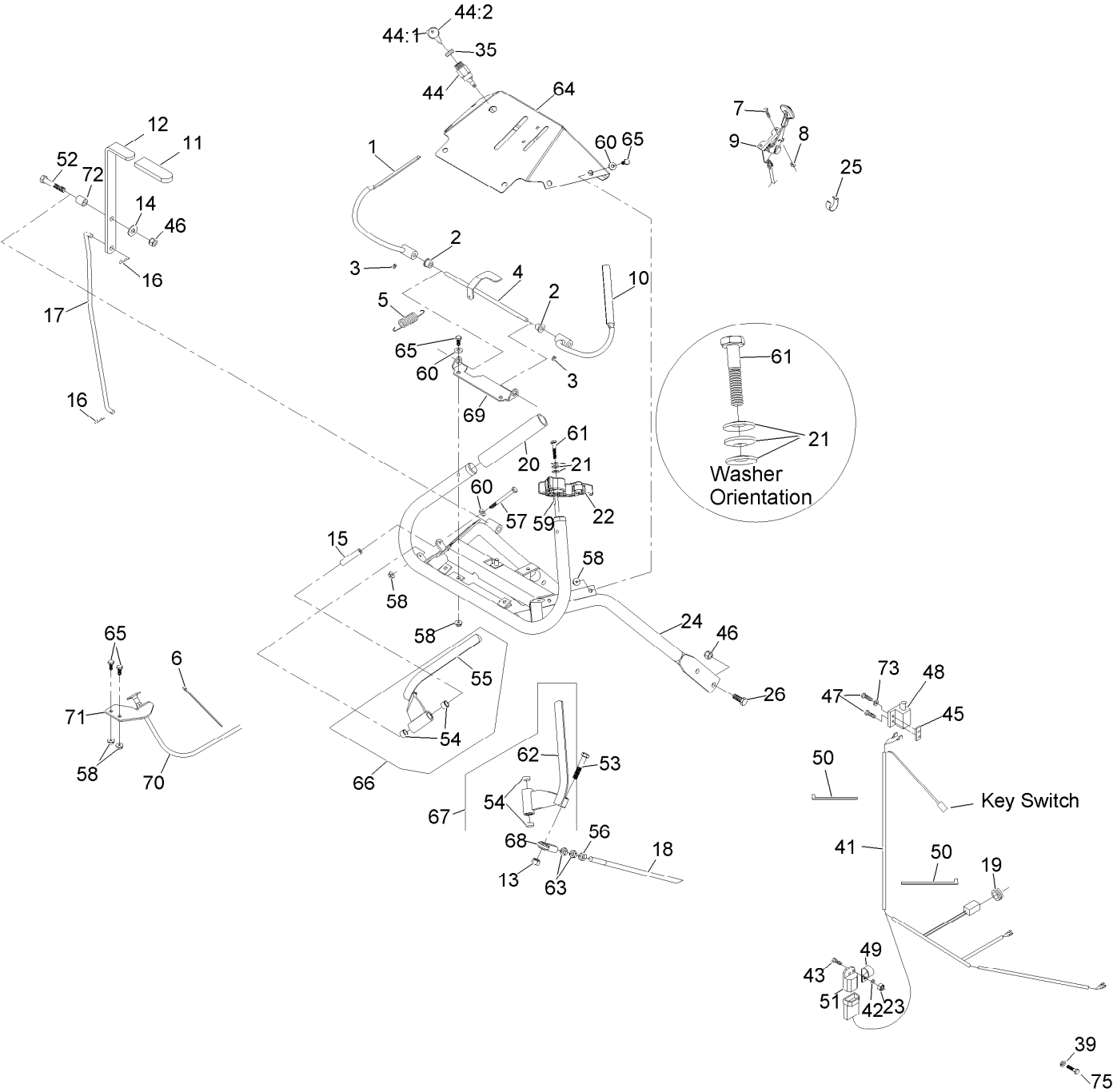


Engine Deck Assembly (cont.) (continued)

<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>	<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>
1	103-1611-03	2	Arm-Brake	23	103-1620	1	Linkage, Brake (RH)
2	302-19	4	Zerk-1/4-28 Str	24	1-513959	2	Wingnut-Nyloc 5/16
3	1-322117-03	1	Axle	25	323-39	4	Screw-HH 3/8-16 X 5
4	2412-104	2	Clamp-R	26	1-523157	1	Washer ●
5	103-1615-03	1	Arm-Idler, LH	26	1-543436	1	Washer-Spacer ●
6	1-806003	4	Hairpin-Cotter	27	98-5975	4	Washer-Spring Disc 3/8
7	103-1616-03	1	Arm-Idler, RH	28	1-323307	2	Pin-Clevis 1/2 X 1
8	32151-47	4	Ring-Retaining	29	1-803051	2	Nut-Push 3/8
9	1-323288	2	Belt, Wheel Drive (36?&48? Models)	30	103-1618	2	Swivel, Short Adjust
10	32128-20	4	Nut-Whizlock 5/16-18	31	323-6	4	Screw-HH 3/8-16 X 1
11	1-323262	2	Band-Brake	32	109-4721	2	Asm, Wheel Drive (36?&48? Models)
12	110-5866	2	Swivel-Brake	34	109-4359	2	Drum And Sheave ASM
13	1-412358	2	Scraper	36	1-323719	2	Wheel And Tire ASM
14	3296-29	4	Nut-Nyloc 5/16-18	37	1-323720	1	Tire-Turfmaster
15	1-323277	2	Idler-Wheel, Drive	38	1-323328	1	Wheel And Hub ASM
16	322-6	2	Screw-HH 5/16-18 X 1 1/4	39	1-323329	4	Bearing-Flanged
17	99-8664	2	Bolt-HH 3/8-16 X 3 Tap	40	322-5	8	Screw-HH 5/16-18 X 1
18	3290-357	14	Nut-Whizlock 3/8-16	41	1-805005	8	Washer-Lock 5/16 Heavy
19	3296-39	4	Nut-Nyloc 3/8-16	42	32120-47	2	Ring-Retaining
20	1-323287-01	2	Shield-Wheel, Drive	44	1-808519	2	Ring-Snap
21	1-323283	4	Spacer-Shield	47	98-3259	1	Shield-Trailing
22	1-603402	2	Spring-Extension	48	322-3	2	Screw-HH 5/16-18 X 3/4
23	103-1619	1	Linkage, Brake (LH)				

● QTY As Required

ECS Upper Handle and Controls



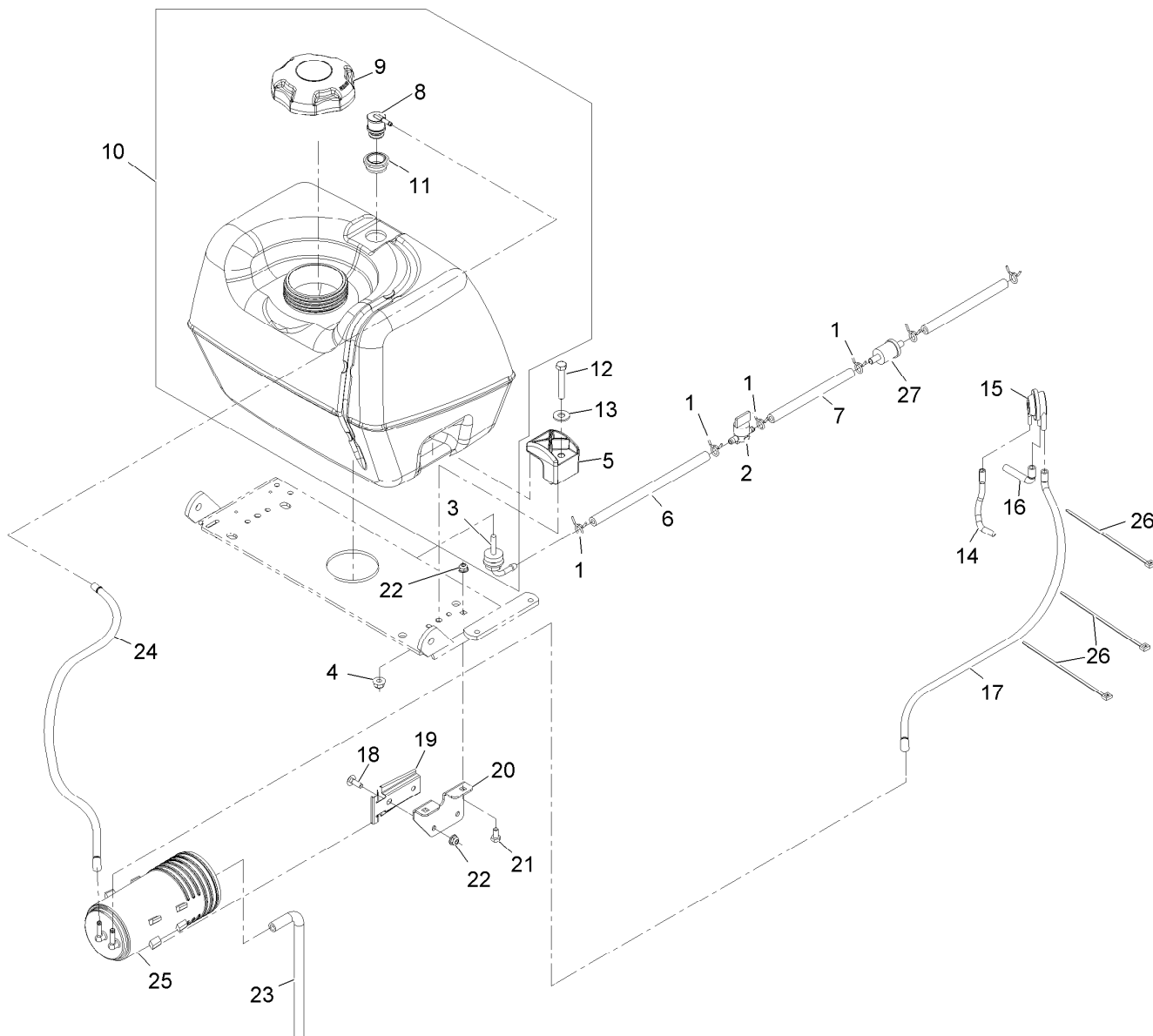
ECS Upper Handle and Controls (continued)

<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>	<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>
1	116-4079	1	Wld, Lever, Opc (LH) ▲	44:1	1-603511	1	Key-Ignition
2	1-303365	2	Bushing-Nylon	44:2	103-2106	1	Key-Exmark Logo
3	1-803322	2	Setscrew-5/16-24 X 5/16 ■	45	1-633181	1	Plate-Tapped
4	103-0769-03	1	Wld, Opc Axle Lever	46	3296-39	5	Nut-Nyloc 3/8-16
5	1-303363	1	Spring-Extension	47	3290-500	2	Screw-PPH #10-24 X 5/8
6	1-303335	1	Tie-Cable 7 15/16 (Large)	48	1-513051	1	Switch-N.O.
7	1-807513	2	Bolt-Carriage #10-24 X 1/2	49	1-323229	1	Clip-Loom 3/8
8	3296-2	2	Nut-Nyloc #10-24	50	1-303287	6	Tie-Cable 5 1/2 (Small)
9	116-2426	1	Cable, Throttle	51	1-323430	1	Module-Interlock
10	116-4080	1	Wld, Opc Lever (RH) ▲	52	323-14	1	Screw-HH 3/8-16 X 3
11	1-303020	1	Grip-Lever	53	322-9	2	Screw-HH 5/16-18 X 1 3/4
12	103-1629	1	Lever, Clutch W/Grip	54	1-413152	4	Bushing-Sleeve
13	3296-29	2	Nut-Nyloc 5/16-18	55	116-4081	1	Lever, Drive LH
14	3256-4	1	Washer-3/8 Std	56	3219-3	2	Nut-Hex 3/8-24
15	103-0027	2	Bushing-Lever, Drive	57	321-14	2	Screw-HH 1/4-20 X 2 3/4
16	1-806003	2	Hairpin-Cotter	58	32128-33	12	Nut-Whizlock 1/4-20
17	103-1627	1	Linkage, Upper	59	103-0464	2	Pin-Spring 1/8 X 1/2
18	103-1604	2	Linkage, Wheel Drive	60	3256-22	10	Washer-1/4 Sae
19	1-543296	1	Grommet	61	103-0235	2	Screw-HH 1/4-20 X 1 1/8 W/Nylon ■
20	103-0815	2	Grip-Bar, Handle	62	116-4082	1	Lever, Drive RH
21	1-303435	6	Washer-Spring Disc 1/4	63	3220-3	4	Nut-Jam 3/8-24
22	103-1631	1	Latch, Thumb (LH) (Not Shown) ●	64	109-4934	1	Asm, Console (109-4649-03) W/Decals
22	103-1630	1	Latch, Thumb (RH)	65	321-3	10	Screw-HH 1/4-20 X 5/8
23	3296-42	1	Nut-Nyloc 1/4-20	66	103-2513	1	Asm, Drive Lever RH
24	103-0770-03	1	Wld, Handle	67	103-2514	1	Asm, Drive Lever LH
25	1-303088	1	Clip-Cable	68	103-2463	2	Balljoint
26	323-6	4	Screw-HH 3/8-16 X 1	69	103-0489-03	1	Bracket, Opc Axle
35	103-0498	1	Nut-Ignition	70	103-1796	1	Cable-Choke
39	33094-00	1	Washer	71	103-1797-01	1	Bracket-Cable, Choke
41	116-2661	1	Harness-Wire	72	1-633080	1	Spacer
42	3256-22	1	Washer-1/4 Sae	73	3256-14	1	Washer-#10 Std
43	321-4	1	Screw-HH 1/4-20 X 3/4	75	33114-016	1	Screw-HH M8-1.25 X 16Mm
44	1-403121	1	Switch-Key				

● 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.



Fuel Tank Assembly

Ref.	Part Number	Qty.	Description
1	2412-98	4	Clamp-Hose
2	1-603770	1	Valve-Fuel
3	103-2605	1	Fitting-Fuel Bulkhead W/Strainer ▲
4	104-8300	2	Nut-Nyloc 5/16-18 Flg
5	107-4543	2	Clamp
6	109-0650	1	Hose-Fuel
7	99-9415	1	Hose-Fuel
8	114-0285	1	Valve-Rollover
9	115-4465	1	Cap-Fuel, Ratcheting
10	116-3656	1	Asm-Fuel Tank
11	119-6549	1	Grommet-Valve, Roll Over
12	322-10	2	Screw-HH 5/16-18 X 2
13	3256-3	2	Washer-5/16 Std
14	116-2394	1	Hose-Formed

Ref.	Part Number	Qty.	Description
15	116-2232	1	Valve-Control, Vacuum
16	116-2233	1	Hose-Formed
17	116-2231	1	Formed-Hose
18	321-2	2	Screw-HH 1/4-20 X 1/2
19	114-0292	1	Bracket-Canister, Carbon
20	115-4486-01	1	Bracket-Canister, Carbon
21	3229-1	2	Bolt-Carriage 1/4-20 X 3/4
22	104-7201	4	Nut-Nyloc 1/4-20 Flg
23	115-0962	1	Hose-Vent, Canister
24	114-0286	1	Hose-Vent
25	117-1221	1	Canister-Carbon, 800Cc
26	1-303335	3	Tie-Cable 7 15/16 (Large)
27		1	Pn 41019-1055 Filter W/6In Fuel Line ■●

● Not serviced separately

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

■ Obtain parts from www.kawpowerepc.com



Decals

Ref.	Part Number	Qty.	Description
1	103-1623	1	Decal, Console
2	103-1798	1	Decal, Throttle
3	103-2882	1	Decal, Exmark Logo
4	117-2718	1	Decal-Arrester, Spark
5	103-2076	1	Decal-Caution
7	103-5626	1	Decal, Belt Routing
10	1-403131	1	Decal-Commercial 48
11	98-5954	1	Decal-Cover, Missing
13	1-303518	1	Decal, Shifter

Ref.	Part Number	Qty.	Description
15	1-303520	1	Decal, TriVantage
16	103-2920	1	Decal, Metro Model
17	1-303508	1	Decal-Warning, Discharge
18	1-403005	2	Decal-Danger
19	1-303517	1	Decal,Belt Drive
20	1-403143	1	Decal, Sulky Warning
21	103-2245	1	Decal, Ecs Instruction (RH)
22	103-2244	1	Decal, Ecs Instruction (LH)
99	103-2640	1	Decal, Kit ●

● Not illustrated

Notes:

Notes:

Notes:

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

SEE EXMARK'S COMPLETE LINE OF ACCESSORIES AND OPTIONS

MID-MOUNT RIDING ACCESSORIES AND OPTIONS

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

OUT-FRONT RIDING ACCESSORIES AND OPTIONS

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

WALK-BEHIND ACCESSORIES AND OPTIONS

GRASS CATCHER	TURF STRIPER
MICRO-MULCH SYSTEM	STANDON

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) _____

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Beatrice, NE 68310
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Part No. 4500-768 Rev. A
(402) 223-6300
Fax (402) 223-5489
Printed in the USA.

