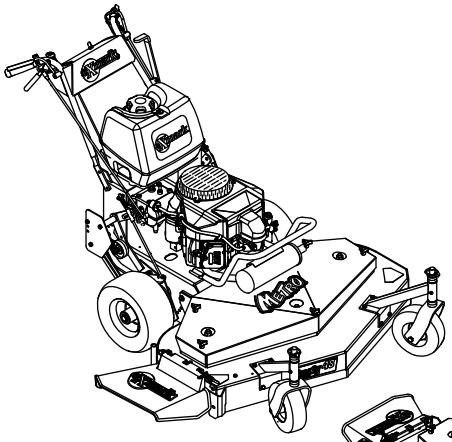
Parts Manual

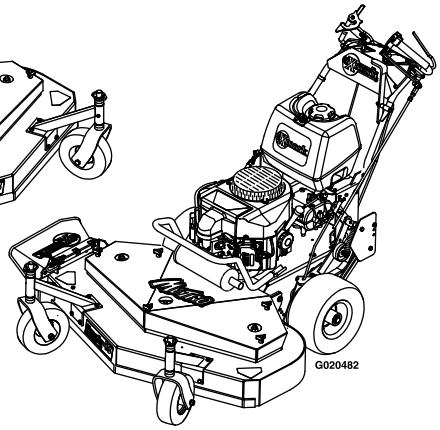
METRO®

Model No. MG481KA483—Serial No. 313000000 and Up

Picture below may not reflect actual product.



Metro with Pistol Grip Handles



Metro with ECS Handles

Part No. 4501-491 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).

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Industrial Park Box 808
Beatrice, NE 68310

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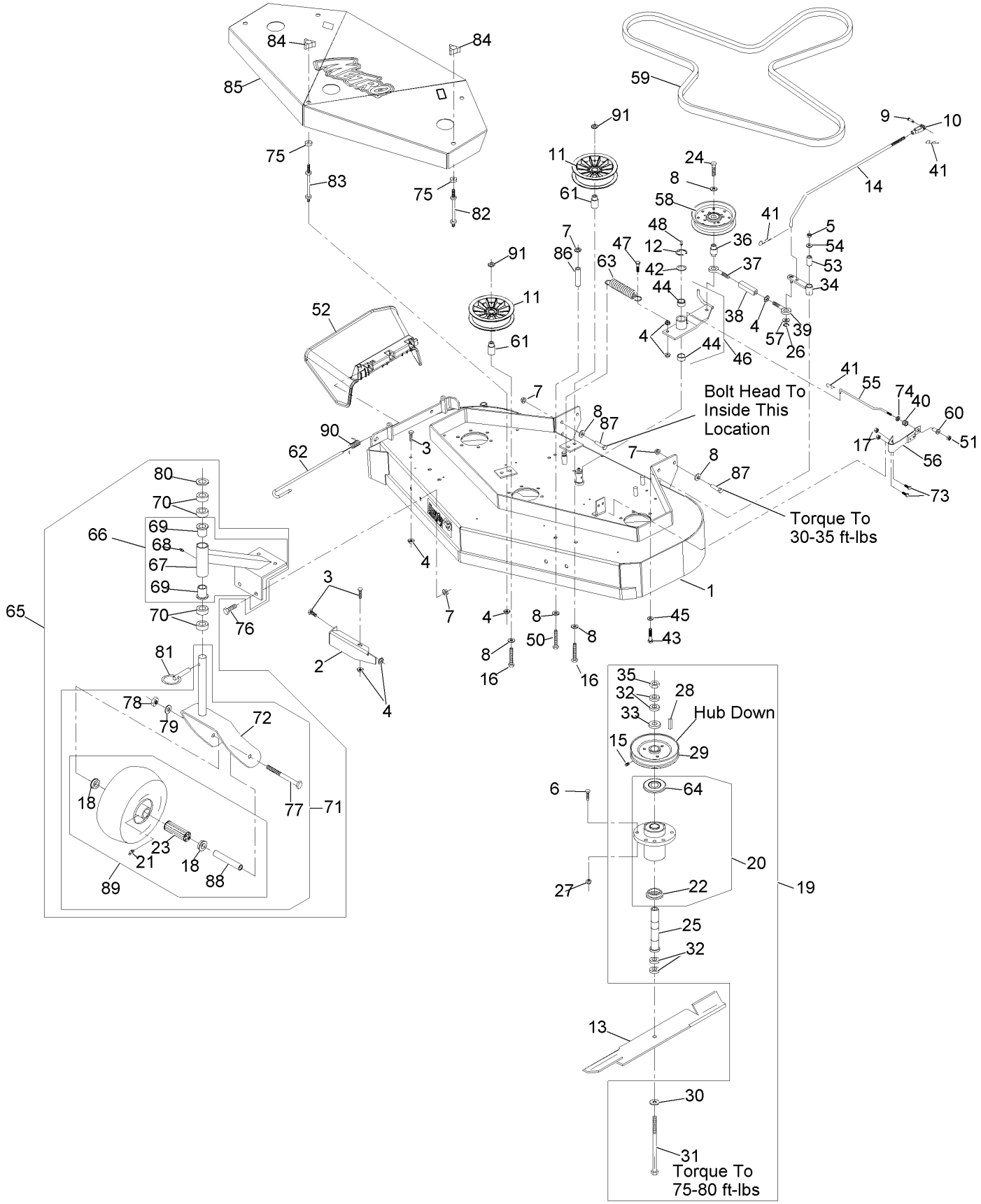


If your Exmark dealer does not have the Exmark part in stock, Exmark will get the parts to the dealer the next business day or the part will be FREE Guaranteed!! (Some restrictions apply. See your participating Exmark Dealer for details.)

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Mower Deck Assembly

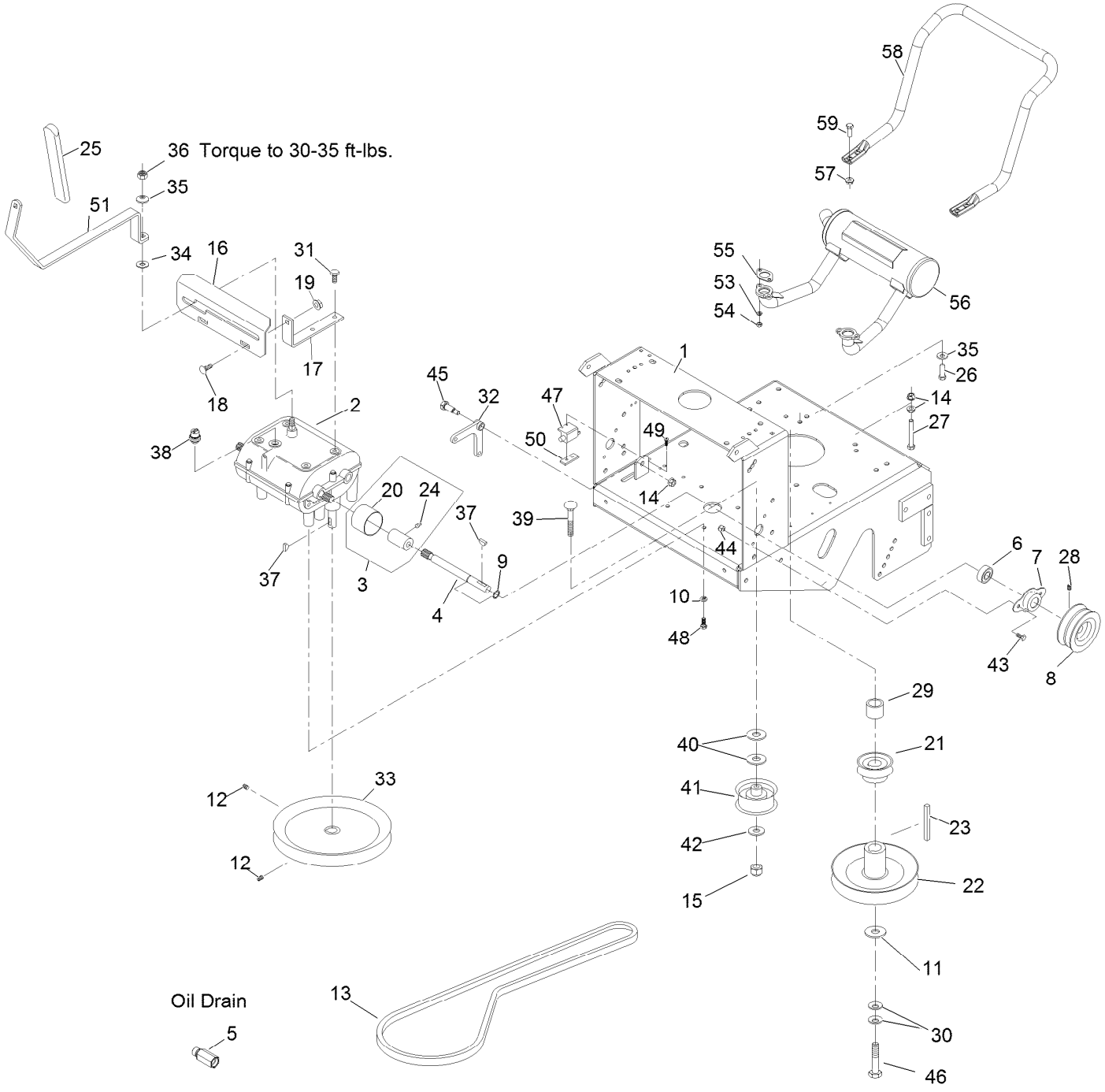


Mower Deck Assembly (continued)

Ref.	Part Number	Qty.	Description
1	109-2601	1	Deck (116-0617-01)W/Dcls And Dogleg
2	116-1729-01	1	Wld, Dogleg Baffle
3	322-2	3	Screw-HH 5/16-18 X 5/8
4	32128-20	11	Nut-Whizlock 5/16-18
5	3296-29	1	Nut-Nyloc 5/16-18
6	323-7	18	Screw-HH 3/8-16 X 1 1/4
7	3290-357	17	Nut-Whizlock 3/8-16
8	98-5975	12	Washer-Spring Disc 3/8
9	1-808280	1	Pin-Clevis 5/16 X 1 49/64
10	1-303105	1	Yoke-Adjustable
11	109-0977	2	Pulley,Idler 5"
12	32151-103	1	E-Ring
13	103-6583	3	Blade, 16.25 Notched
13	103-6581	3	Blade, 16.25 Mulching ■
13	103-6738	3	Blade, Low Lift
13	103-1577	3	Blade, 16.25 Solid
13	116-5178	3	Blade, Extreme
14	1-323303	1	Linkage-Arm
15	3246-18	3	Setscrew-5/16-18 X 3/8 ●
16	323-13	2	Screw-HH 3/8-16 X 2 3/4
17	3296-42	2	Nut-Nyloc 1/4-20
18	1-513810	4	Bushing-Flanged
19	103-8387	3	Asm, Cutter Housing Complete
20	103-8280	3	Asm, Cutter Housing W/Bearings ▲
21	302-61	2	Zerk-45° 1/4-28
22	103-2535	3	Spacer-Guard Bottom
23	1-513809	2	Bearing
24	702809	1	Screw-HH
25	1-323529	3	Tube-Spindle, Short ▲
26	32120-35	1	E-Ring
27	3296-39	18	Nut-Nyloc 3/8-16
28	1-807267	3	Key-Machine 1/4 X 3/16 X 1 1/4
29	1-403183	3	Sheave ▲
30	1-513208	3	Washer-Spring Disc 5/8
31	1-800861	3	Screw-Cap, HH
32	1-323539	12	Spacer-Blade Drive
33	1-323339	3	Washer
34	1-322235	1	Arm-Assist
35	3219-6	3	Nut-Hex 5/8-18
36	1-303434	1	Bushing-Engagement
37	1-303348	1	Eyebolt-Thread, LH
38	1-303236	1	Body-Turnbuckle
39	1-303238	1	Eyebolt-Thread, RH
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
46	103-3600	1	Idler Arm ASM
47	116-3515	1	Screw,HH Special 5/16-18 X 1.25
48	302-19	1	Zerk-1/4-28 Str
50	323-20	1	Screw-HH 3/8-16 X 3-1/4
51	3296-56	1	Nut-Nyloc 1/4-20 Thin
52	109-5151	1	Deflector-Discharge
53	1-403179	1	Tube-Pivot
54	3256-3	1	Washer-5/16 Std
55	1-323714	1	Rod-Brake
56	1-324372	1	Pad And Spring ASM
57	3256-23	1	Washer-5/16 Sae
58	116-3626	1	Pulley-Idler
59	1-403174	1	Drive Belt (Main Deck) 48"
60	1-323746	1	Spacer-Flanged
61	1-413113	2	Bushing-Idler
62	109-8854	1	Pin-Chute
63	1-323071	1	Spring-Extension
64	103-1330	3	Guard-Bearing Top ▲
65	103-2281	2	Caster/Mount, Complete
66	103-2296	2	Caster Whl Support W/Bearings, Weighted
67	103-2297-01	2	Caster Whl Support Wldmnt, Weighted
68	302-52	2	Zerk-1/8-27 Str
69	1-303514	4	Bearing-Flanged
70	1-303314	8	Spacer-Caster
71	103-1236	2	Caster Wheel Assembly
72	1-322145-01	2	Fork
73	321-4	2	Screw-HH 1/4-20 X 3/4
74	1-323748	1	Ring-Push On
75	1-323417	5	Washer-Belt Shield
76	323-4	8	Screw-HH 3/8-16 X 3/4
77	325-20	2	Screw-HH 1/2-13 X 6
78	3217-9	2	Nut-Hex 1/2-13
79	3253-7	2	Washer-Lock 1/2
80	1-513338	2	Washer
81	1-809020	2	Pin
82	1-303537	2	Stud-Shield, Belt (Short)
83	1-303536	3	Stud-Shield, Belt (Long)
84	1-323385	5	Knob-3 Prong
85	116-2707	1	Shield (1-402100-01)W/Decals 48
86	1-403188	1	Spacer
87	323-8	8	Screw-HH 3/8-16 X 1 1/2
88	1-513547	2	Spacer
89	103-2171	2	Kit,Semi-Pneumatic Wheel Replacement
90	116-0962	1	Spring, Torsion
91	104-8301	2	Nut-Nyloc 3/8-16 Flg

● 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

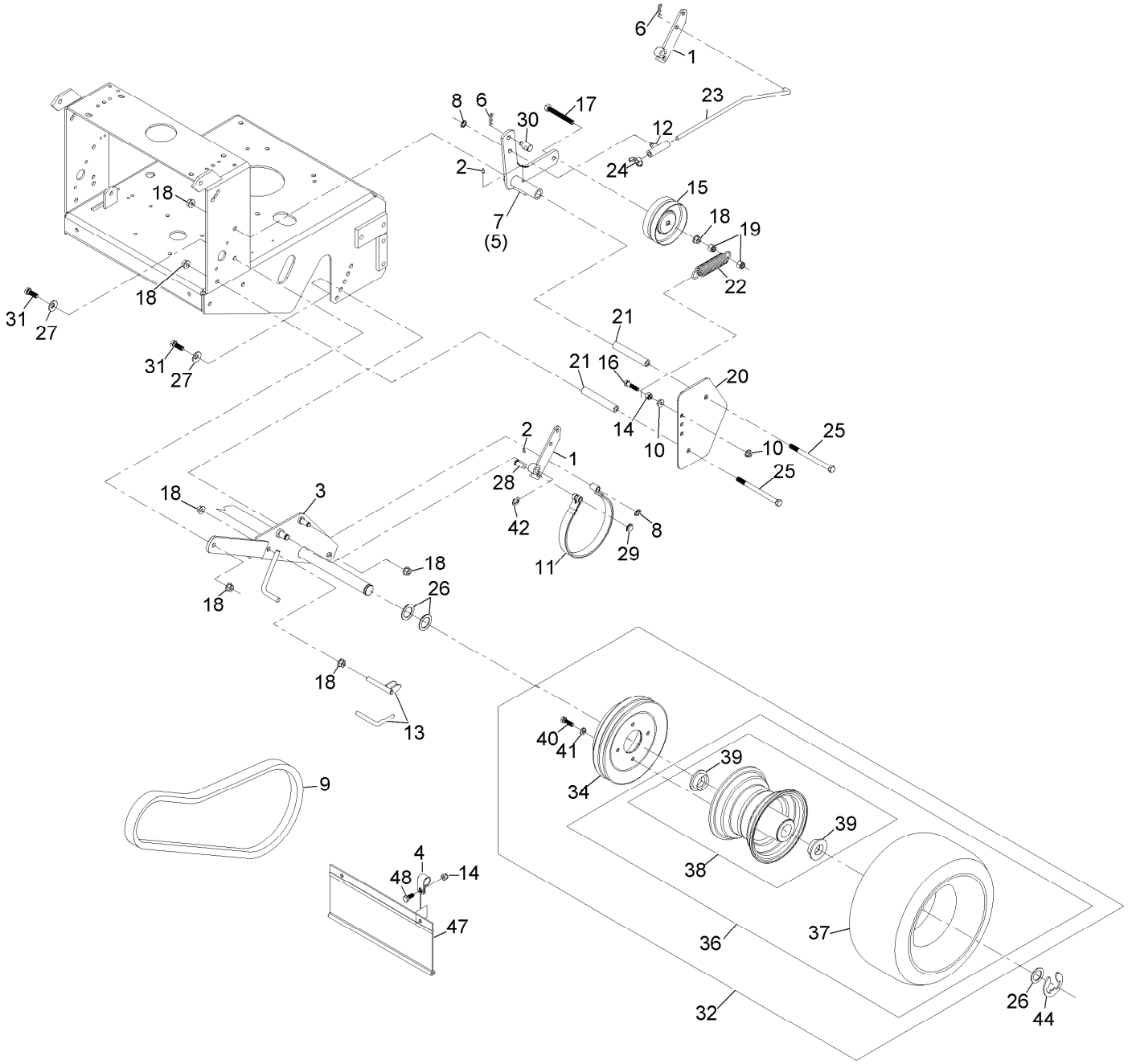


Engine Deck Assembly (continued)

Ref.	Part Number	Qty.	Description
1	116-6131	1	Rear Deck (116-6084-01) W/Decals
2	1-323500	1	Transmission
3	1-324340	2	Coupling, W/Guard And Zerk
4	1-323502	2	Shaft-Transmission
5	103-2587	1	Adapter
6	1-323252	2	Bearing-Shaft ●
7	1-323254	2	Flange-Output
8	103-6511	2	Sheave-Transmission ●
9	32151-62	2	Ring-Retaining
10	1-805005	4	Washer-Lock 5/16 Heavy
11	1-373034	1	Washer
12	3245-41	2	Setscrew-1/4-20 X 3/8 ■
13	1-323280	1	Belt, Transmission Drive
14	3290-357	3	Nut-Whizlock 3/8-16
15	3296-39	1	Nut-Nyloc 3/8-16
16	103-3498	1	Asm, Shifter Plate (1-323387-03) W/ Decals
17	1-323389-03	2	Bracket-Plate, Shift
18	3230-1	2	Bolt-Carriage 5/16-18 X 3/4
19	104-8300	2	Nut-Nyloc 5/16-18 Flg
20	51-4220	2	Guard-Coupler
21	103-1666	1	Sheave-Transmission ●
22	103-1667	1	Sheave ●
23	103-4177	1	Key
24	302-19	2	Zerk-1/4-28 Str
25	103-1733	1	Grip Foam
26	323-7	4	Screw-HH 3/8-16 X 1 1/4
27	323-13	1	Screw-HH 3/8-16 X 2 3/4
28	3246-18	2	Setscrew-5/16-18 X 3/8 ■
29	1-633453	1	Spacer-Clutch
30	1-603610	2	Washer-Spring Disc 7/16
31	32144-11	4	Screw-HWH 5/16-18 X 3/4 Tf
32	1-303186	1	Bellcrank
33	1-323278	1	Sheave-Transmission ●
34	1-323379	1	Washer
35	98-5975	5	Washer-Spring Disc 3/8
36	3296-6	1	Nut-Nyloc 3/8-24
37	3257-5	3	Key-Woodruff #9 3/4 X 3/16
38	1-303282	1	Switch-Start, Neutral
39	3231-6	1	Bolt-Carriage 3/8-16 X 2
40	3256-5	2	Washer-7/16 Std
41	1-323285	1	Pulley-Idler, Flat
42	3256-24	1	Washer-3/8 Sae
43	321-3	4	Screw-HH 1/4-20 X 5/8
44	3296-42	4	Nut-Nyloc 1/4-20
45	1-603403	1	Bolt-Shoulder
46	116-3702	1	Screw-HH ■
47	1-513051	1	Switch-N.O.
48	322-3	4	Screw-HH 5/16-18 X 3/4
49	3290-500	2	Screw-PPH #10-24 X 5/8
50	1-633181	1	Plate-Tapped
51	103-1606	1	Lever, Shift W/Grip
53	114-3550	4	Washer-Lock, Spring
54	114-3549	4	Nut-M8
55	1-653313	2	Gasket-Exhaust
56	116-3735	1	Muffler-Horizontal
57	104-8301	4	Nut-Nyloc 3/8-16 Flg
58	116-6278-03	1	Guard-Muffler
59	323-6	4	Screw-HH 3/8-16 X 1

● Apply anti-seize compound in bore.
■ Use Pro-Lock, Nut Type (P/N 1-840022, .5ml tube) on threads.

Engine Deck Assembly (cont.)

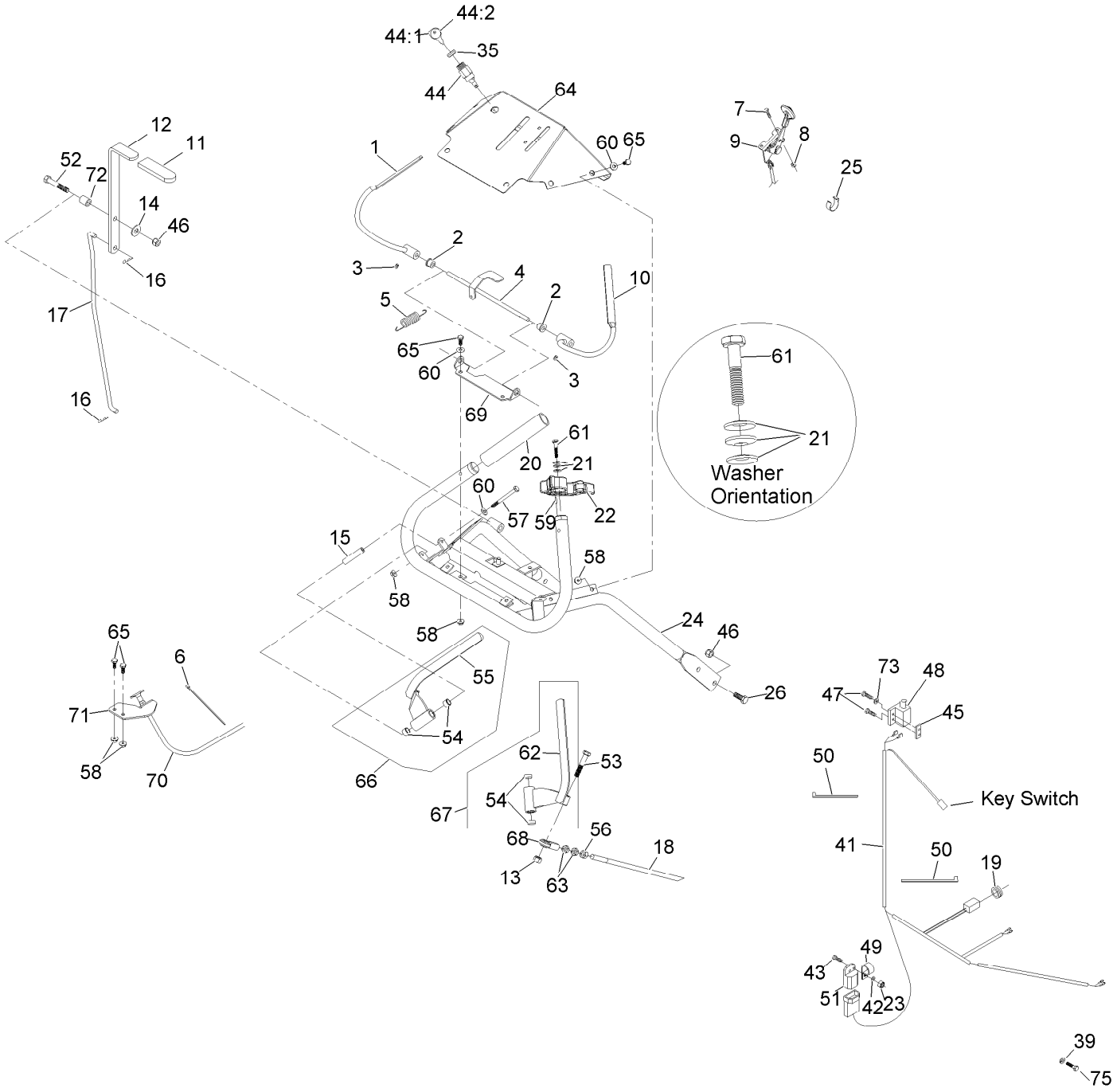


Engine Deck Assembly (cont.) (continued)

Ref.	Part Number	Qty.	Description
1	103-1611-03	2	Arm-Brake
2	302-19	4	Zerk-1/4-28 Str
3	1-322117-03	1	Axle
4	2412-104	2	Clamp-R
5	116-7542-03	1	LH Idler Arm ASM
6	1-806003	2	Hairpin-Cotter
7	116-7543-03	1	RH Idler Arm ASM
8	32151-47	4	Ring-Retaining
9	1-323288	2	Belt, Wheel Drive
10	32128-20	4	Nut-Whizlock 5/16-18
11	1-323262	2	Band-Brake
12	110-5866	2	Swivel-Brake
13	1-412358	2	Scraper
14	3296-29	4	Nut-Nyloc 5/16-18
15	1-323277	2	Idler-Wheel, Drive
16	322-6	2	Screw-HH 5/16-18 X 1 1/4
17	99-8664	2	Bolt-HH 3/8-16 X 3 Tap
18	3290-357	14	Nut-Whizlock 3/8-16
19	3296-39	4	Nut-Nyloc 3/8-16
20	1-323287-01	2	Shield-Wheel, Drive
21	1-323283	4	Spacer-Shield
22	1-603402	2	Spring-Extension
23	103-1619	1	Linkage,LH Brake
23	103-1620	1	Linkage,RH Brake
24	1-513959	2	Wingnut-Nyloc 5/16
25	323-39	4	Screw-HH 3/8-16 X 5
26	1-523157	1	Washer ●
26	1-543436	1	Washer-Spacer ●
27	98-5975	4	Washer-Spring Disc 3/8
28	1-323307	2	Pin-Clevis 1/2 X 1
29	1-803051	2	Nut-Push 3/8
30	103-1618	2	Swivel, Short
31	323-6	4	Screw-HH 3/8-16 X 1
32	109-4721	2	Asm, Wheel Drive (36" And 48" Models)
34	109-4359	2	Drum And Sheave ASM
36	1-323719	2	Wheel And Tire ASM
37	1-323720	1	Tire-Turfmaster
38	1-323328	1	Wheel And Hub ASM
39	1-323329	4	Bearing-Flanged
40	322-5	8	Screw-HH 5/16-18 X 1
41	1-805005	8	Washer-Lock 5/16 Heavy
42	32120-47	2	Ring-Retaining
44	1-808519	2	Ring-Snap
47	98-3259	1	Shield-Trailing
48	322-3	2	Screw-HH 5/16-18 X 3/4

● QTY As Required

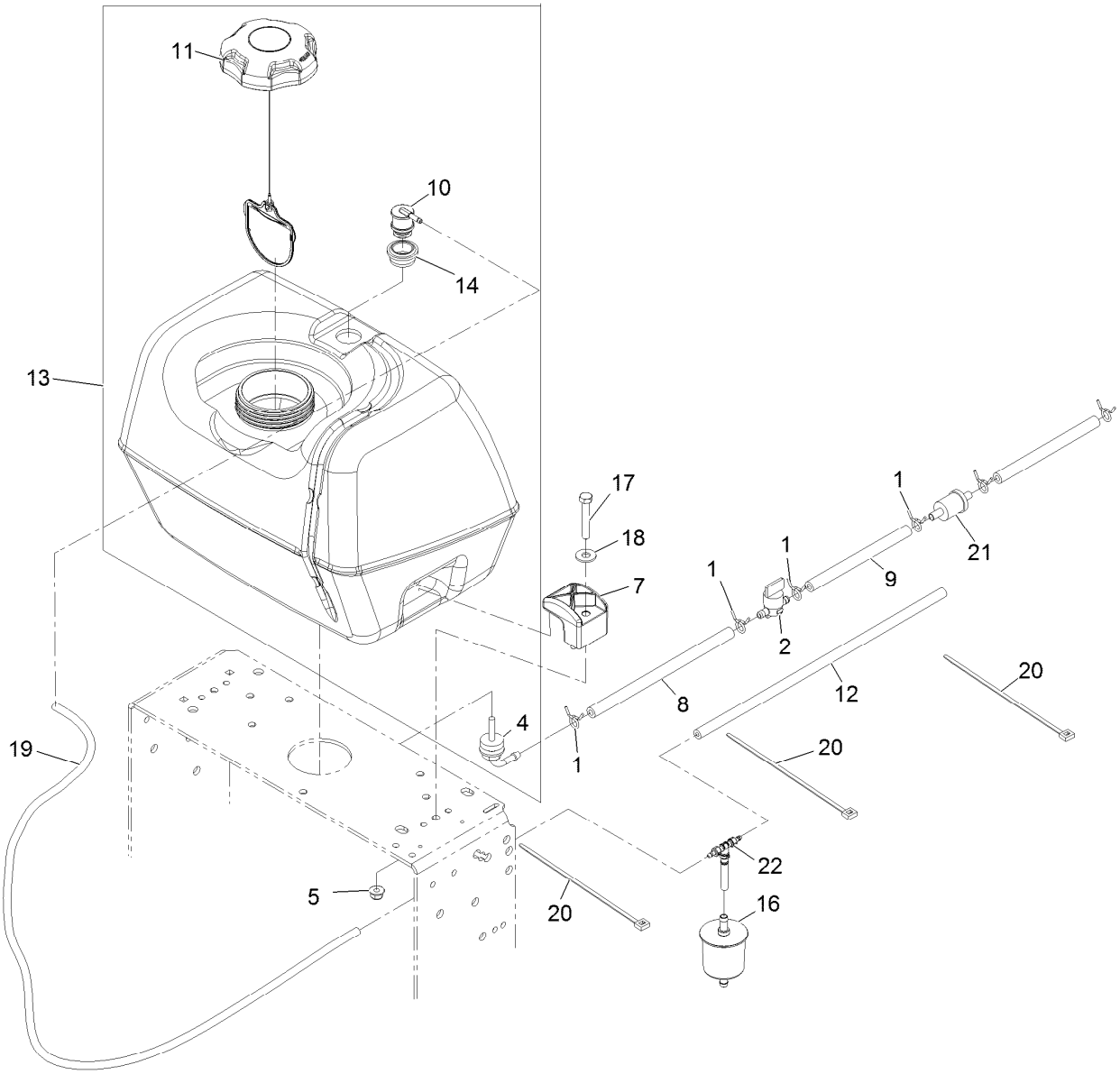
ECS Upper Handle and Controls



ECS Upper Handle and Controls (continued)

Ref.	Part Number	Qty.	Description
1	116-4079	1	Wld, Lever, Opc (LH) ▲
2	1-303365	2	Bushing-Nylon
3	1-803322	2	Screw-Set ■
4	103-0769-03	1	Rod Weldment, Opc
5	1-303363	1	Spring-Extension
6	1-303335	1	Tie-Plastic
7	1-807513	2	Bolt-CARR
8	3296-2	2	Nut-Lock, NI
9	116-2426	1	Cable, Throttle
10	116-4080	1	Wld, Opc Lever (RH) ▲
11	1-303020	1	Grip-Lever
12	103-1629	1	Clutch Lever W/Grip
13	3296-29	2	Nut-Lock, NI
14	3256-4	1	Washer-Flat
15	103-0027	2	Bushing-Lever, Drive
16	1-806003	2	Pin-Cotter, Hair
17	103-1627	1	Linkage, Upper
18	103-1604	2	Linkage, Wheel Drive
19	1-543296	1	Grommet
20	103-0815	2	Grip-Bar, Handle
21	1-303435	6	Washer-Spring
22	103-1631	1	Latch, Thumb LH ●
22	103-1630	1	Latch, Thumb RH
23	3296-42	1	Nut-Lock, NI
24	103-0770-03	1	Handle Weldment (1-412449)
25	1-303088	1	Clip-Cable
26	323-6	4	Screw-HH
35	103-0498	1	Nut-Switch, Ignition
39	33094-00	1	Washer-Plain
41	116-2661	1	Harness-Wire
42	3256-22	1	Washer-Flat
43	321-4	1	Screw-HH
44	1-403121	1	Switch-Key
44:1	1-603511	1	Keys,Ignition
44:2	103-2106	1	Key,Exmark Logo
45	1-633181	1	Plate-Tapped
46	3296-39	5	Nut-Lock, NI
47	3290-500	2	Screw-PPH
48	1-513051	1	Switch-Open, Normally
49	1-513762	1	Clip-Loom
50	1-303287	6	Tie-Cable
51	1-323430	1	Module-Interlock
52	323-14	1	Screw-HH
53	322-9	2	Screw-HH
54	1-413152	4	Bushing-Sleeve
55	116-4081-03	1	Lever, Drive LH
56	3219-3	2	Nut-Hex
57	321-14	2	Screw-HH
58	32128-33	12	Nut-HF
59	103-0464	2	Pin-Spring
60	3256-22	10	Washer-Flat
61	103-0235	2	Screw-HH ■
62	116-4082-03	1	Lever, Drive RH
63	3220-3	4	Nut-HJ
64	109-4934	1	Asm, Console (109-4649-03) W/Decals
65	321-3	10	Screw-HH
66	103-2513	1	Asm, Drive Lever RH
67	103-2514	1	Asm, Drive Lever LH
68	103-2463	2	Joint, .31 Ball End
69	103-0489-03	1	Bracket, Opc Axle
70	103-1796	1	Cable-Choke
71	103-1797-01	1	Bracket-Cable, Choke
72	1-633080	1	Bushing-Lever, Lift
73	3256-14	1	Washer-Flat
75	33114-016	1	Screw-HH

● 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

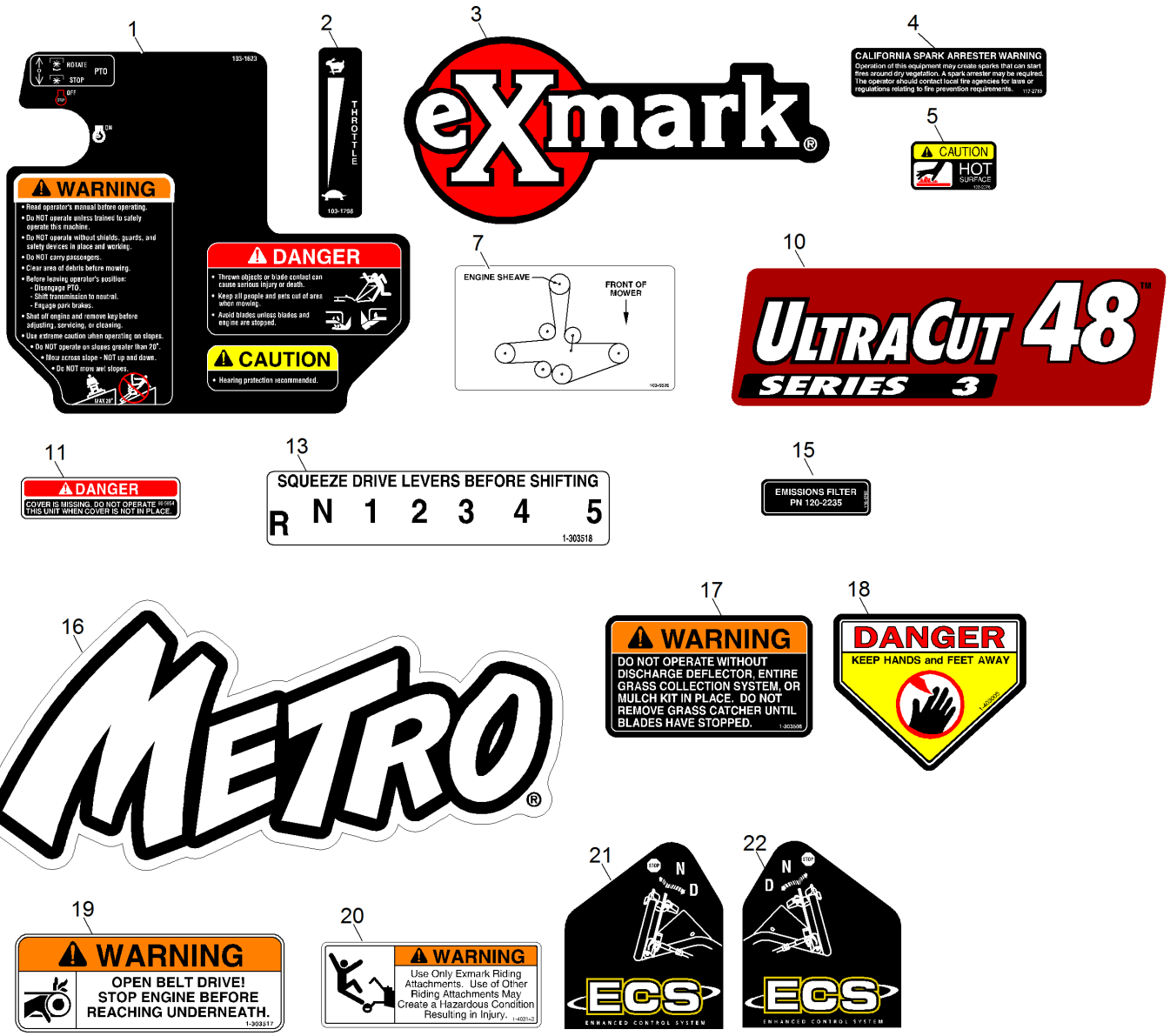
Ref.	Part Number	Qty.	Description
1	2412-98	4	Clamp-Hose
2	1-603770	1	Valve-Fuel
4	103-2605	1	Fitting-Fuel Bulkhead W/Strainer ▲
5	104-8300	2	Nut-Nyloc 5/16-18 Flg
7	107-4543	2	Clamp
8	109-0650	1	Hose-Fuel
9	99-9415	1	Hose-Fuel
10	114-0285	1	Valve-Rollover
11	120-5461	1	Cap-Fuel, Ratcheting
12	115-7872	1	Hose-Fuel

Ref.	Part Number	Qty.	Description
13	116-3656	1	ASM, Fuel Tank
14	114-0284	1	Grommet
16	120-2235	1	Filter-Fuel
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	3	Tie-Cable 7 15/16 (Large)
21		1	Pn 41019-1055 Filter W/6In Fuel Line ■●
22	116-5464	1	Tee And Check ASM

● 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	2	Decal-Caution
7	103-5626	1	Decal, Belt Routing (48")
10	116-4697	1	Decal-Ultracut 48 Series 3
11	98-5954	1	Decal-Cover, Missing
13	1-303518	1	Decal, Shifter

Ref.	Part Number	Qty.	Description
15	116-4769	1	Decal-Filter, Emissions
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, RH Ecs Instruction
22	103-2244	1	Decal, LH Ecs Instruction
99	103-2640	1	Decal, Kit ●

● 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.

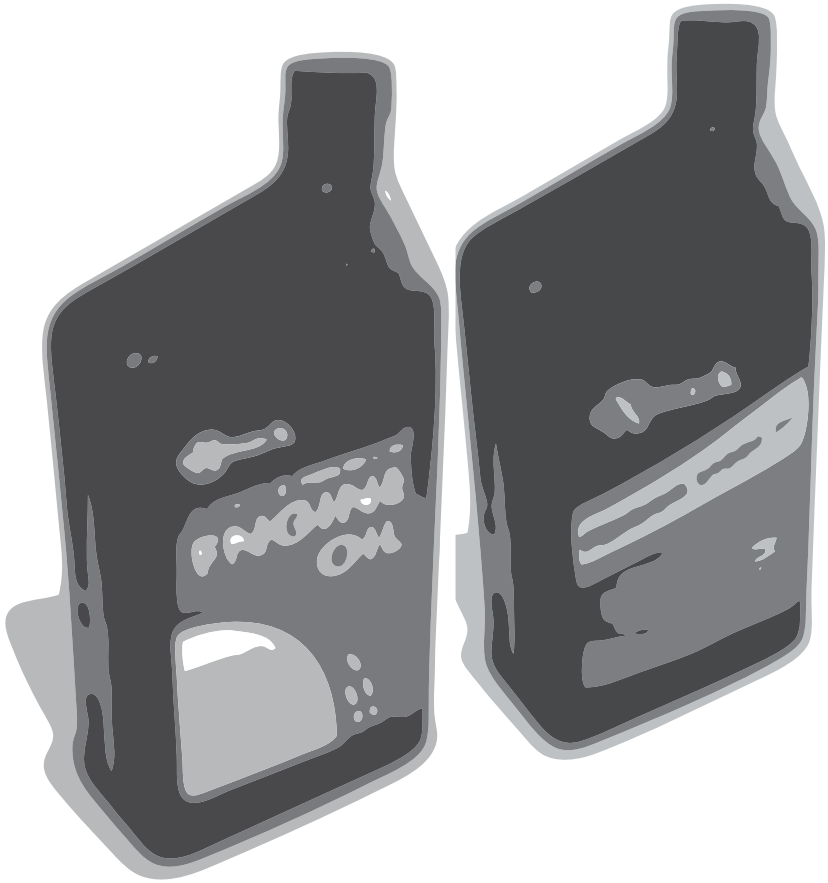
API 'SL' and JASO rated with wet clutch compatibility for other machines.

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) _____

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Part No. 4501-491 Rev. A
Printed in the USA.

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