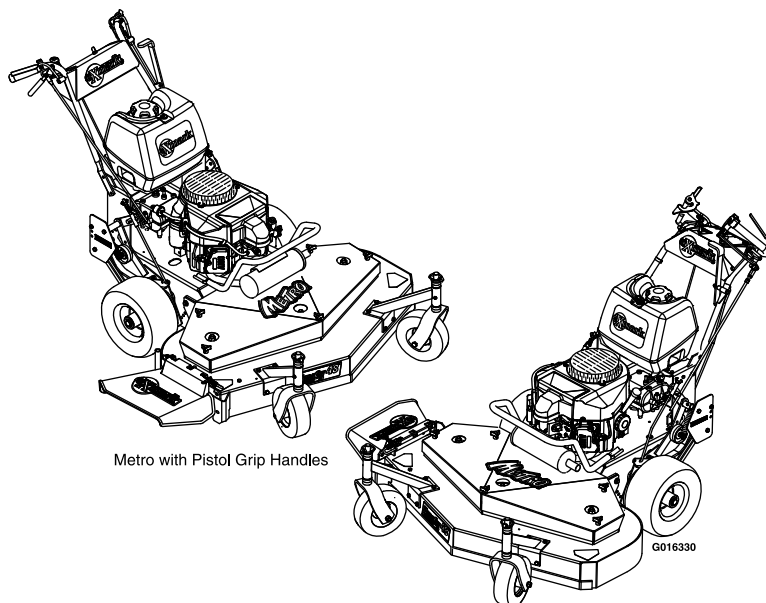




METRO®

Model No. MG481KA362—Serial No. 312000000 and Up

Picture below may not reflect actual product.



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	HJ: hex jam	PTH: phillips truss head
ASM: assembly	HLH: hex lag head	PTO: power-take-off
BBC: blade brake control	HOC: height-of-cut	RH: right hand
BHTF: button head thread forming	HSBH: hex socket button head	ROPS: roll-over protection system
CARR: carriage	HSFH: hex socket flat head	RRB: rear roller brush
CCW: counter clockwise	HSH: hex socket head	SFH: slotted fillister head
CW: clockwise	HWH: hex washer head	SHH: slotted hex head
DEG: degrees	HWHTF: hex washer head thread forming	SHWH: slotted hex washer head
DPA: Dual Point Adjustment	HYD: hydraulic	SPH: slotted pan head
ECM: electronic control module	LH: left hand	SQH: square head
EXT: external	LP: Liquid Propane	SRH: slotted round head
FH: flat head	NI: nylon insert	STD: standard
GA: gauge	NPTF: national pipe thread fine	TAP: self tapping
HD: heavy-duty	PFH: phillips flat head	TTH: torx truss head
HF: hex flange	PPH: phillips pan head	
HH: hex head	PPHTF: phillips pan head thread forming	
HHF: hex head flange	PRH: phillips round head	
HHFTF: hex head flange thread forming		

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).

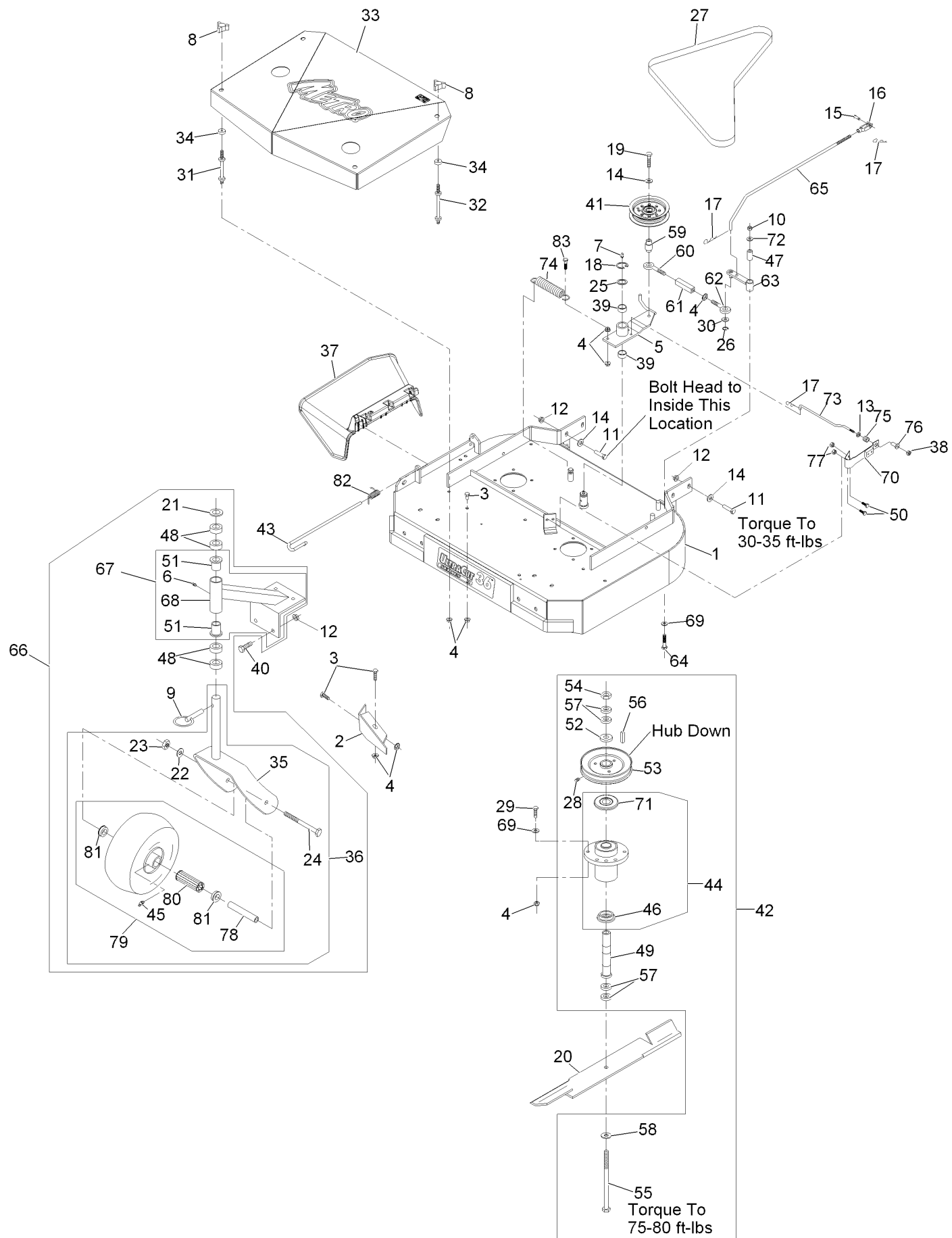


If your Exmark dealer does not have the Exmark part in stock, Exmark will get the parts to the dealer the next business day or the part will be FREE Guaranteed!! (Some restrictions apply. See your participating Exmark Dealer for details.)

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Fuel Tank Assembly	12
Decals	13

Mower Deck Assembly



Mower Deck Assembly (continued)

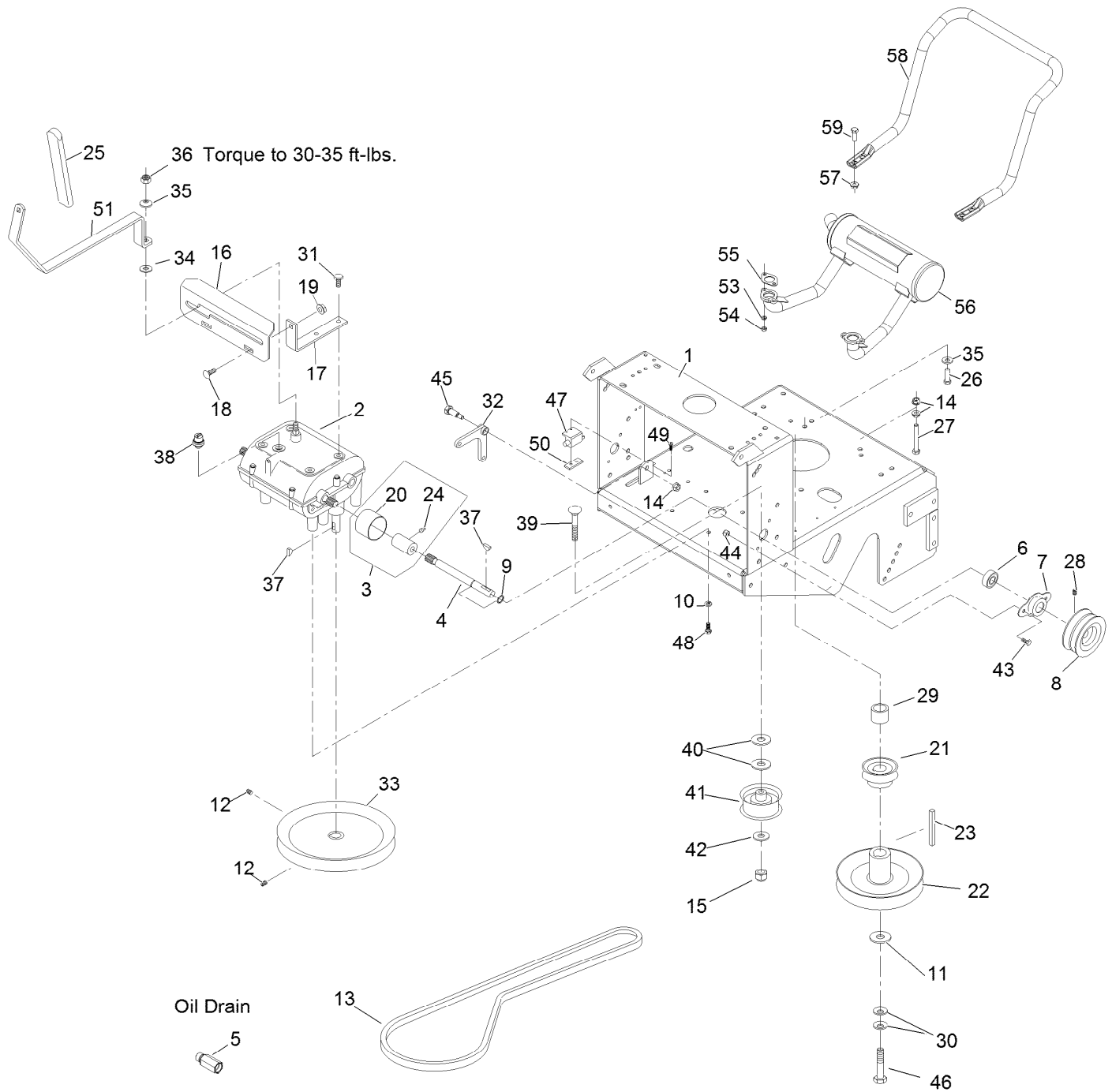
Ref.	Part Number	Qty.	Description	Ref.	Part Number	Qty.	Description
1	103-2312	1	Deck (116-0616-01) W/Decals, Dogleg, & Discharge Deflector	42	103-8387	2	Asm, Cutter Housing Complete
2	1-302189-01	1	Baffle-Dogleg	43	109-8854	1	Pin-Chute
3	322-2	7	Screw-HH 5/16-18 X 5/8	44	103-8280	2	Kit, Cutter Housing ▲
4	32128-20	22	Nut-Whizlock 5/16-18	45	302-61	2	Zerk-45° 1/4-28
5	103-3600	1	Idler Arm ASM	46	103-2535	2	Spacer-Guard Bottom
6	302-52	2	Zerk-1/8-27 Str	47	1-403179	1	Tube-Pivot
7	302-19	1	Zerk-1/4-28 Str	48	1-303314	8	Spacer-Caster
8	1-323385	4	Knob-3 Prong	49	1-323529	2	Tube-Spindle, Short ▲
9	1-809020	2	Pin	50	321-4	2	Screw-HH 1/4-20 X 3/4
10	3296-29	1	Nut-Nyloc 5/16-18	51	1-303514	4	Bearing-Flanged
11	323-8	8	Screw-HH 3/8-16 X 1 1/2	52	1-323339	2	Washer
12	3290-357	16	Nut-Whizlock 3/8-16	53	1-403183	2	Sheave
13	1-323748	1	Ring-Push On	54	3219-6	2	Nut-Hex 5/8-18
14	98-5975	9	Washer-Spring Disc 3/8	55	1-800861	2	Screw-Cap, HH
15	1-808280	1	Pin-Clevis 5/16 X 1 49/64	56	1-807267	2	Key-Machine 1/4 X 3/16 X 1 1/4
16	1-303105	1	Yoke-Adjustable	57	1-323539	8	Spacer-Blade Drive
17	1-806003	3	Hairpin-Cotter	58	1-513208	2	Washer-Spring Disc 5/8
18	32151-103	1	E-Ring	59	1-303434	1	Bushing-Engagement
19	702809	1	Screw-HH	60	1-303348	1	Eyebolt-Thread, LH
20	103-6584	2	Blade, Notched	61	1-303236	1	Body-Turnbuckle
20	103-6582	2	Blade, Mulching ■	62	1-303238	1	Eyebolt-Thread, RH
20	103-6580	2	Blade, Low Lift	63	1-322235	1	Arm-Assist
20	103-1578	2	Blade, Solid	64	322-10	1	Screw-HH 5/16-18 X 2
20	116-5176	2	Blade, Extreme (36)	65	1-323303	1	Linkage-Arm
21	1-513338	2	Washer	66	103-2281	2	Asm, Caster/Mnt Complete, Weighted
22	3253-7	2	Washer-Lock 1/2	67	103-2296	2	Asm, Caster Wheel Support W/Bearings, Weighted
23	3217-9	2	Nut-Hex 1/2-13	68	103-2297-01	2	Wld, Caster Wheel Support, Weighted
24	325-20	2	Screw-HH 1/2-13 X 6	69	1-303334	9	Washer-Spring Disc 5/16
25	1-303352	1	Washer-Spindle	70	1-324372	1	Pad And Spring ASM
26	32120-35	1	E-Ring	71	103-1330	2	Guard-Bearing Top ▲
27	1-323733	1	Drive Belt (To Blades) 36 Model	72	3256-3	1	Washer-5/16 Std
28	3246-18	2	Setscrew-5/16-18 X 3/8 ●	73	1-323715	1	Rod-Brake
29	322-6	9	Screw-HH 5/16-18 X 1 1/4	74	1-323071	1	Spring-Extension
30	3256-23	1	Washer-5/16 Sae	75	1-323747	1	Spring-Compression
31	1-303537	2	Stud-Shield, Belt (Short)	76	1-323746	1	Spacer-Flanged
32	1-303536	2	Stud-Shield, Belt (Long)	77	3296-42	2	Nut-Nyloc 1/4-20
33	116-2706	1	Shield (1-302213-01) W/Decals	78	1-513547	2	Spacer
34	1-323417	4	Washer-Belt Shield	79	103-2171	2	Kit, Tire & Wheel Asm W/ Spacer
35	1-322145-01	2	Fork	80	1-513809	1	Bearing
36	103-1236	2	Asm, Caster Wheel Assembly	81	1-513810	4	Bushing-Flanged
37	109-5151	1	Deflector-Discharge	82	116-0962	1	Spring, Torsion
38	3296-56	1	Nut-Nyloc 1/4-20 Thin	83	116-3515	1	Screw,HH Special 5/16-18 X 1.25
39	1-323729	2	Sleeve-Bearing				
40	323-4	8	Screw-HH 3/8-16 X 3/4				
41	116-3626	1	Pulley-Idler				

● 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



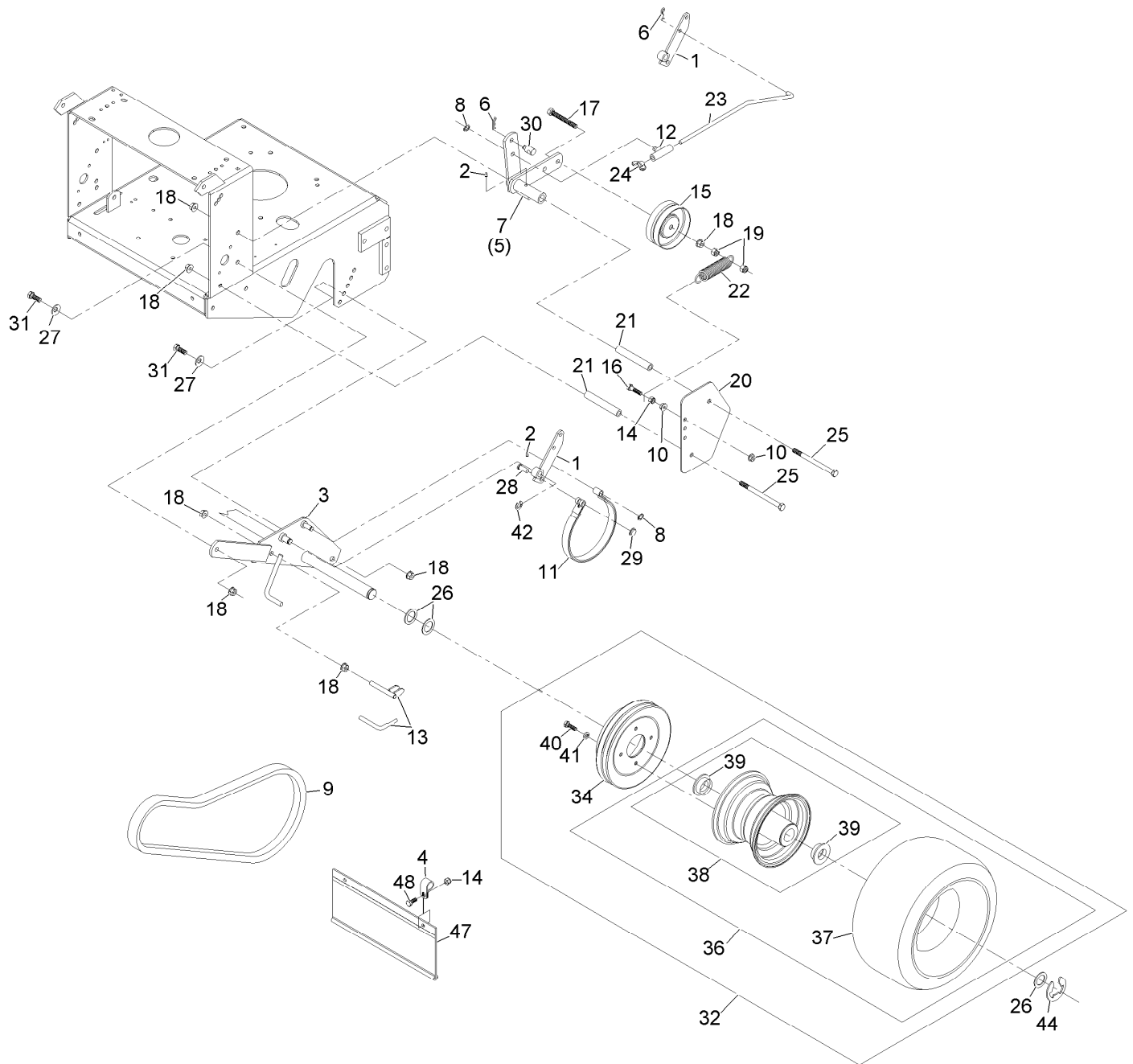
Engine Deck Assembly (continued)

<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	116-6131	1	Rear Deck (116-6084-01) W/Decals	29	1-633453	1	Spacer-Clutch
2	1-323500	1	Transmission	30	1-603610	2	Washer-Spring
3	1-324340	2	Asm, Coupling, W/Guard And Zerk	31	9264964	4	Screw-HWH, Thread Cut
4	1-323502	2	Shaft-Transmission	32	1-303186	1	Bellcrank
5	103-2587	1	Adapter	33	1-323278	1	Sheave-Transmission ●
6	1-323252	2	Bearing-Shaft ●	34	1-323379	1	Washer
7	1-323254	2	Flange-Output	35	98-5975	5	Washer-Belleville
8	103-6511	2	Sheave-Transmission ●	36	3296-6	1	Nut-Lock
9	32151-62	2	Ring-Retaining	37	3257-5	3	Key-Woodruff
10	1-805005	4	Washer-Lock	38	1-303282	1	Switch-Start, Neutral
11	1-373034	1	Washer	39	3231-6	1	Screw-CARR
12	3245-41	2	Screw-HSH ■	40	3256-5	2	Washer-Flat
13	1-323280	1	Belt, Transmission	41	1-323285	1	Pulley-Idler, Flat
14	3290-357	3	Nut-HHF, Whiz	42	3256-24	1	Washer-Flat
15	3296-39	1	Nut-Lock, NI	43	321-3	4	Screw-HH
16	103-3498	1	Shifter Plate (1-323387-03) W/Decals	44	3296-42	4	Nut-Lock, NI
17	1-323389-03	2	Bracket-Plate, Shift	45	1-603403	1	Bolt-Shoulder
18	3230-1	2	Bolt-CARR	46	116-3702	1	Screw-HH ■
19	32128-20	2	Nut-HF	47	1-513051	1	Switch-Open, Normally
20	51-4220	2	Guard-Coupler	48	322-3	4	Screw-HH
21	103-1666	1	Sheave-Transmission ●	49	3290-500	2	Screw-PPH
22	103-1668	1	Sheave ●	50	1-633181	1	Plate-Tapped
23	103-4177	1	Key	51	103-1606	1	Asm Shift Lever, W/Grip
24	302-19	2	Fitting-Grease	53	114-3550	4	Washer-Lock, Spring
25	103-1733	1	Grip	54	114-3549	4	Nut
26	323-7	4	Screw-HH	55	1-653313	2	Gasket-Exhaust
27	323-13	1	Screw-HH	56	116-3734	1	Muffler (32 & 36)
28	3246-18	2	Setscrew ■	57	104-8301	4	Nut-Flange, NI
				58	116-6278-03	1	Guard-Muffler
				59	323-6	4	Screw-HH

● Apply anti-seize compound in bore.

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

Engine Deck Assembly (cont.)

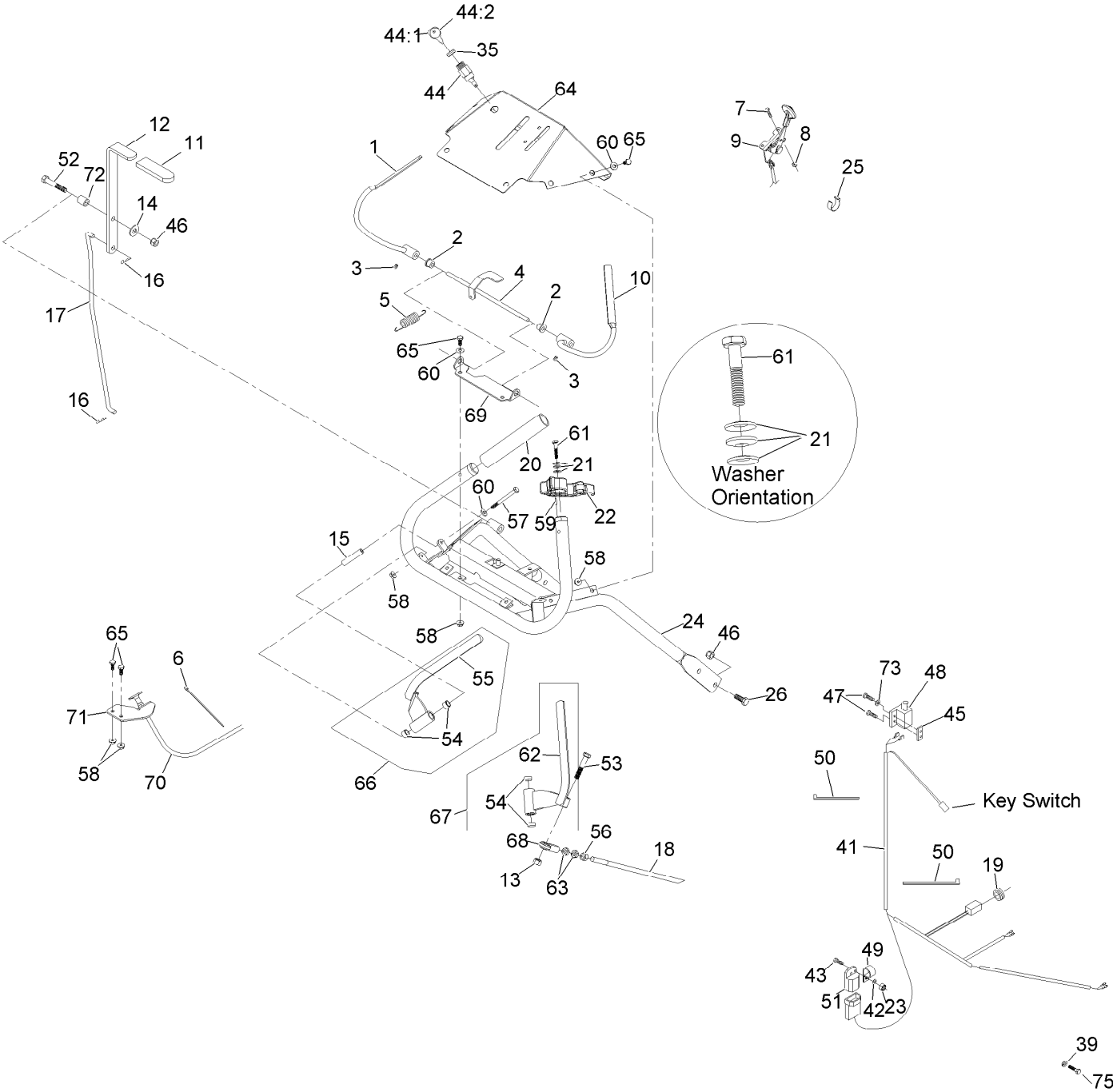


Engine Deck Assembly (cont.) (continued)

<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



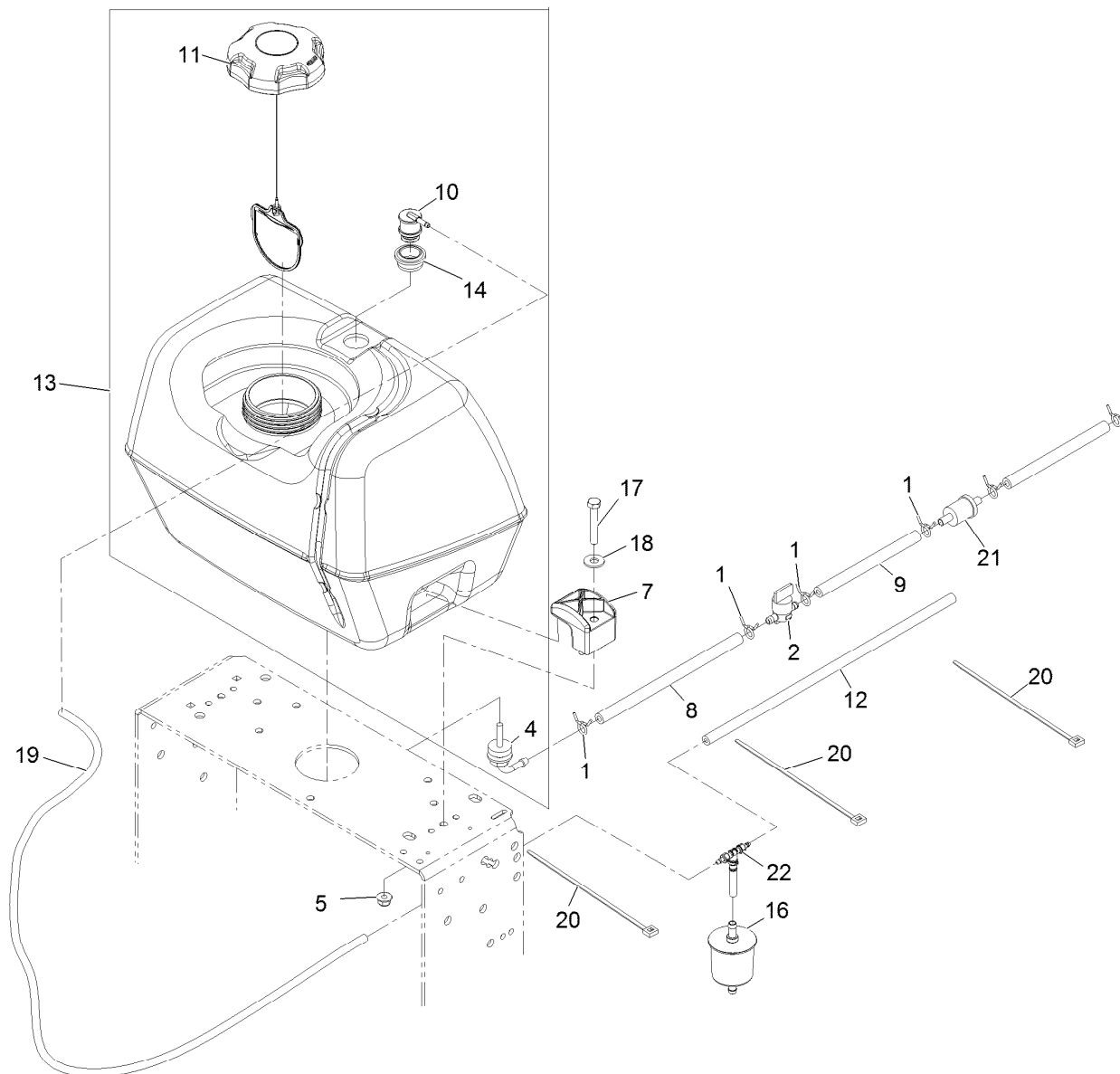
ECS Upper Handle and Controls (continued)

<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	1-513762	1	Clip-Loom 1/2
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	116-4081-03	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	116-4082-03	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

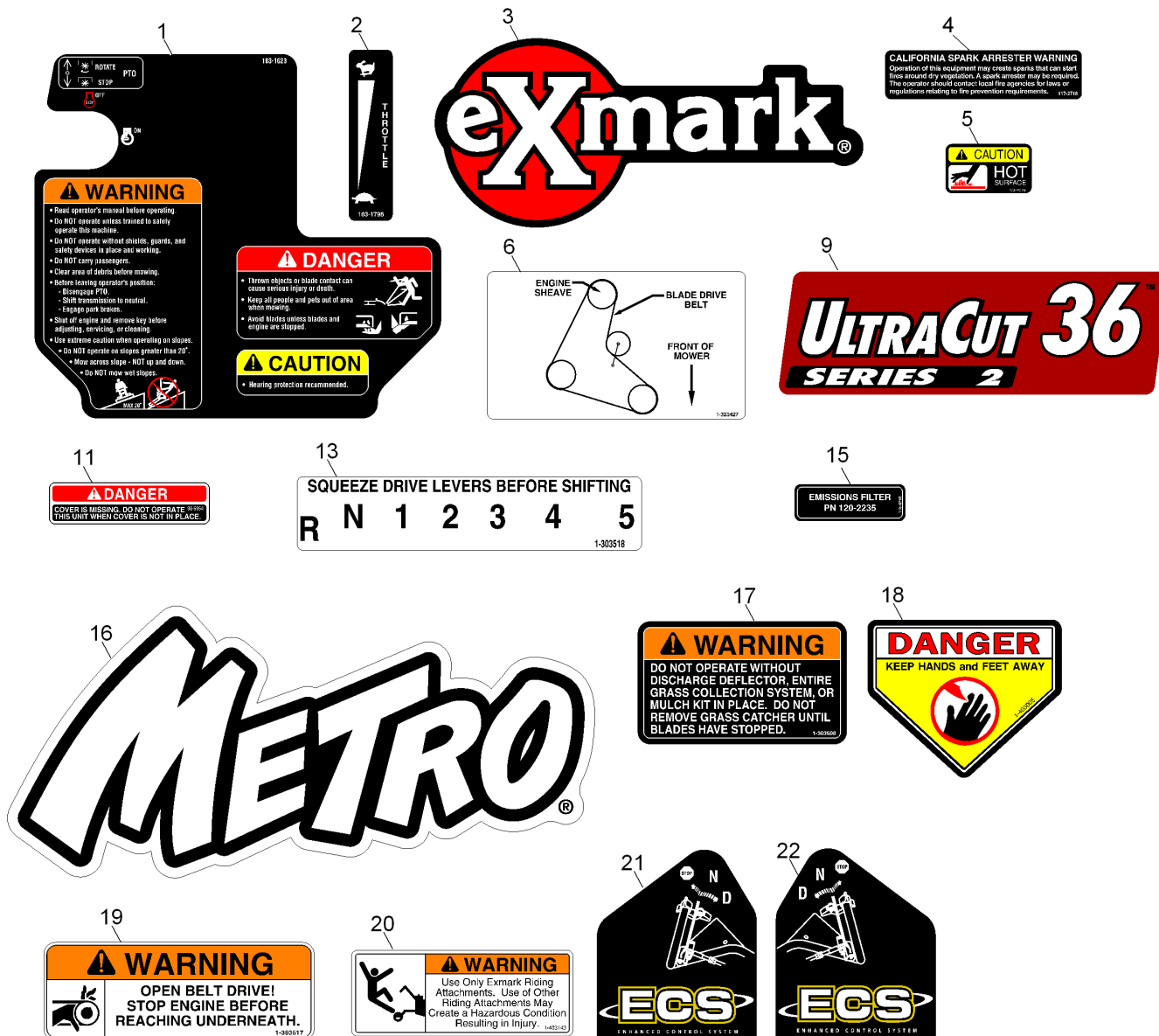
Ref.	Part Number	Qty.	Description
1	2412-98	4	Clamp-Hose
2	1-603770	1	Valve-Fuel
4	103-2605	1	Fitting-Fuel Bulkhead W/Strainer ▲
5	104-8300	2	Nut-Nyloc 5/16-18 Flg
7	107-4543	2	Clamp
8	109-0650	1	Hose-Fuel
9	99-9415	1	Hose-Fuel
10	114-0285	1	Valve-Rollover
11	120-5461	1	Cap-Fuel, Ratcheting
12	115-7872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

● 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
6	1-323427	1	Decal, Belt Routing
9	116-4694	1	Decal-Ultracut 36 Series 2
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	1	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:

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.

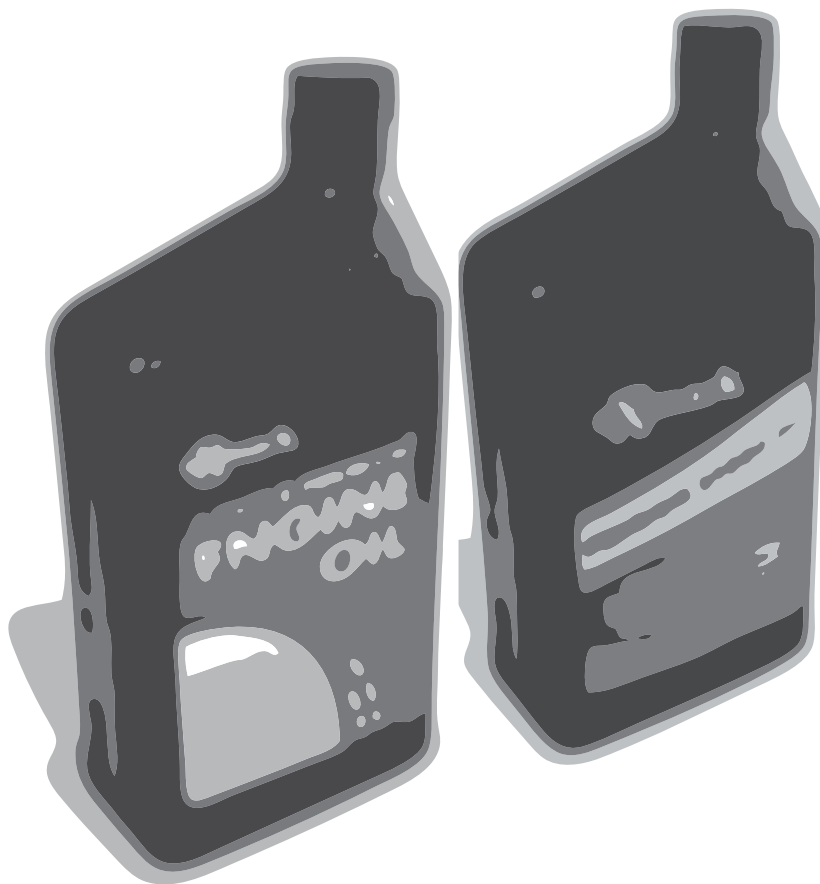
PREMIUM HYDRO OIL

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

*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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