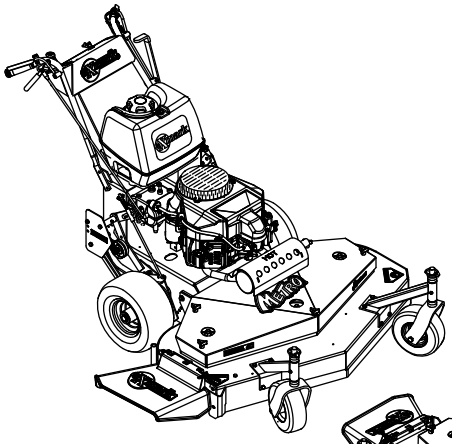
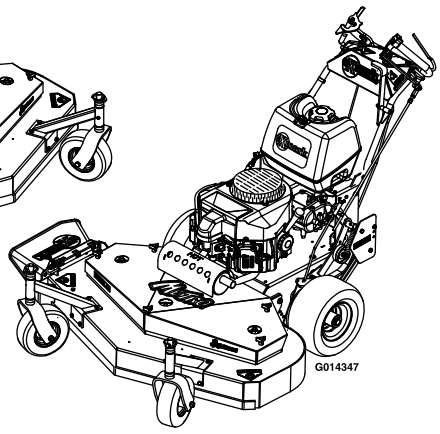
Parts Manual

METRO®

Model No. MG16KA322PCA—Serial No. 920000 and Up



Metro with Pistol Grip Handles



Metro with ECS Handles

Part No. 4500-766 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).

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Beatrice, NE 68310

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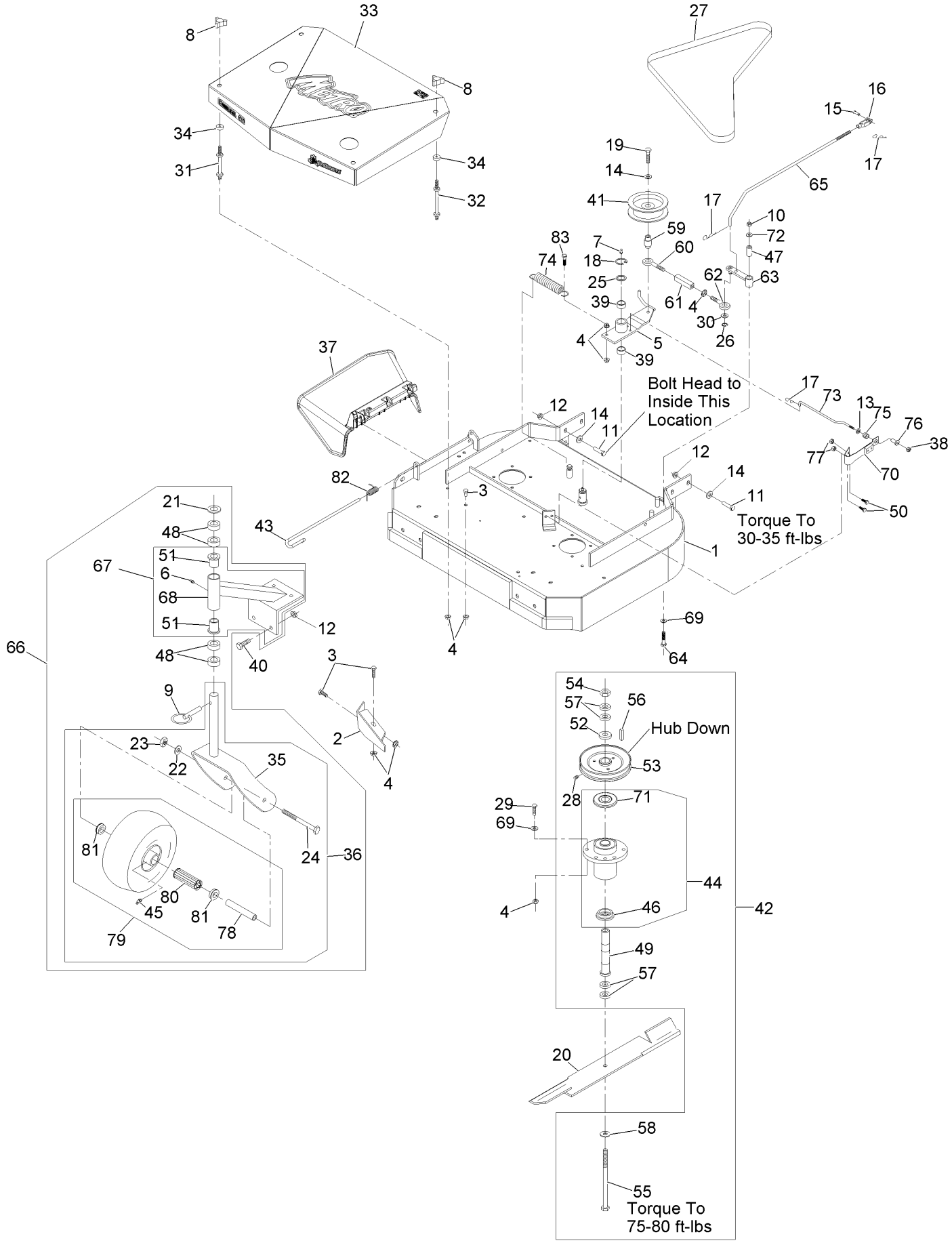


If your Exmark dealer does not have the Exmark part in stock, Exmark will get the parts to the dealer the next business day or the part will be FREE Guaranteed!! (Some restrictions apply. See your participating Exmark Dealer for details.)

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Mower Deck Assembly

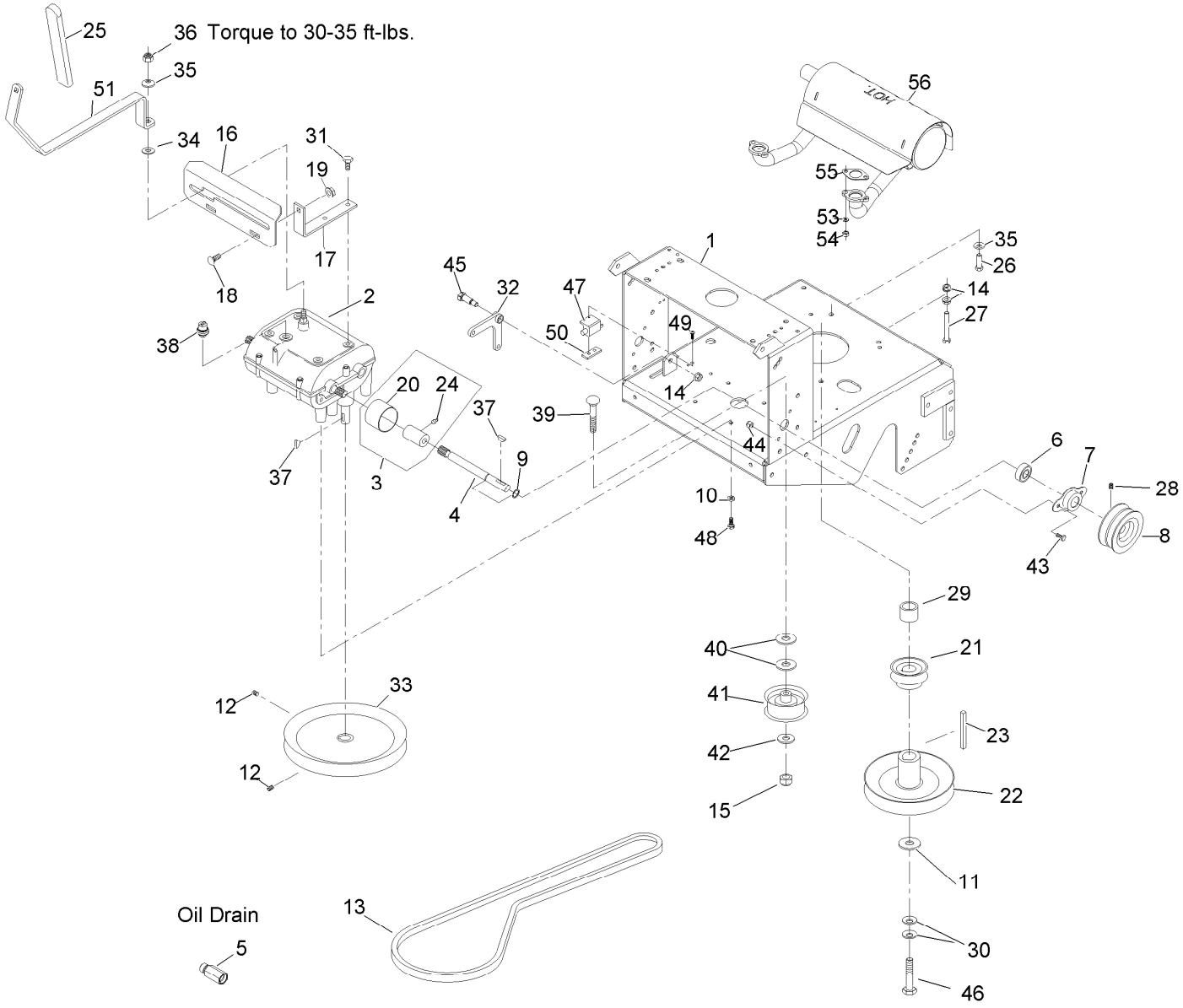


Mower Deck Assembly (continued)

Ref.	Part Number	Qty.	Description
1	116-0799	1	Deck (116-0618-01) W/Decals & Dogleg & Discharge Deflector (32)
2	1-302189-01	1	Baffle-Dogleg
3	322-2	7	Screw-HH 5/16-18 X 5/8
4	32128-20	22	Nut-Whizlock 5/16-18
5	103-3600	1	Idler Arm ASM
6	302-52	2	Zerk-1/8-27 Str
7	302-19	1	Zerk-1/4-28 Str
8	1-323385	4	Knob-3 Prong
9	1-809020	2	Pin
10	3296-29	1	Nut-Nyloc 5/16-18
11	323-8	8	Screw-HH 3/8-16 X 1 1/2
12	3290-357	16	Nut-Whizlock 3/8-16
13	1-323748	1	Ring-Push On
14	98-5975	9	Washer-Spring Disc 3/8
15	1-808280	1	Pin-Clevis 5/16 X 1 49/64
16	1-303105	1	Yoke-Adjustable
17	1-806003	3	Hairpin-Cotter
18	32151-103	1	E-Ring
19	702809	1	Screw-HH
20	103-6583	2	Blade, Notched
20	103-6581	2	Blade, Mulching ■
20	103-6738	2	Blade, Low Lift
20	103-1577	2	Blade, Solid
20	103-6336	2	Blade, Extreme
21	1-513338	2	Washer
22	3253-7	2	Washer-Lock 1/2
23	3217-9	2	Nut-Hex 1/2-13
24	325-20	2	Screw-HH 1/2-13 X 6
25	1-303352	1	Washer-Spindle
26	32120-35	1	E-Ring
27	1-323734	1	Drive Belt (To Blades) 32 Model
28	1-803310	2	Setscrew-5/16-18 X 3/8 ●
29	322-6	9	Screw-HH 5/16-18 X 1 1/4
30	3256-23	1	Washer-5/16 Sae
31	1-303537	2	Stud-Shield, Belt (Short)
32	1-303536	2	Stud-Shield, Belt (Long)
33	116-2705	1	Shield (1-322149-01) W/Decals
34	1-323417	4	Washer-Belt Shield
35	1-322145-01	2	Fork
36	103-1236	2	Asm, Caster Wheel Assembly
37	109-5151	1	Deflector, Discharge
38	3296-56	1	Nut-Nyloc 1/4-20 Thin
39	1-323729	2	Sleeve-Bearing
40	323-4	8	Screw-HH 3/8-16 X 3/4
41	1-603843	1	Pulley-Idler
42	103-8387	2	Asm, Cutter Housing Complete
43	109-8854	1	Pin-Chute
44	103-8280	2	Kit, Cutter Housing ▲
45	302-61	2	Zerk-45° 1/4-28
46	103-2535	2	Spacer-Guard Bottom
47	1-403179	1	Tube-Pivot
48	1-303314	8	Spacer-Caster
49	1-323529	2	Tube-Spindle, Short ▲
50	321-4	2	Screw-HH 1/4-20 X 3/4
51	1-303514	4	Bearing-Flanged
52	1-323339	2	Washer
53	1-403183	2	Sheave
54	3219-6	2	Nut-Hex 5/8-18
55	1-800861	2	Screw-Cap, HH
56	1-807267	2	Key-Machine 1/4 X 3/16 X 1 1/4
57	1-323539	8	Spacer-Blade Drive
58	1-513208	2	Washer-Spring Disc 5/8
59	1-303434	1	Bushing-Engagement
60	1-303348	1	Eyebolt-Thread, LH
61	1-303236	1	Body-Turnbuckle
62	1-303238	1	Eyebolt-Thread, RH
63	1-322235	1	Arm-Assist
64	322-10	1	Screw-HH 5/16-18 X 2
65	1-323303	1	Linkage-Arm
66	103-1238	2	Asm , Caster/Mount Complete
67	1-302203	2	Support ASM
68	1-302194-01	2	Support-Caster
69	1-303334	9	Washer-Spring Disc 5/16
70	1-324372	1	Pad And Spring ASM
71	103-1330	2	Guard-Bearing Top ▲
72	3256-3	1	Washer-5/16 Std
73	1-323718	1	Rod-Brake
74	1-323071	1	Spring-Extension
75	1-323747	1	Spring-Compression
76	1-323746	1	Spacer-Flanged
77	3296-42	2	Nut-Nyloc 1/4-20
78	1-513547	2	Spacer
79	103-2171	2	Kit, Tire & Wheel Asm W/ Spacer
80	1-513809	1	Bearing
81	1-513810	4	Bushing-Flanged
82	116-0962	1	Spring, Torsion
83	116-3515	1	Screw,HH Special 5/16-18 X 1.25

● 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

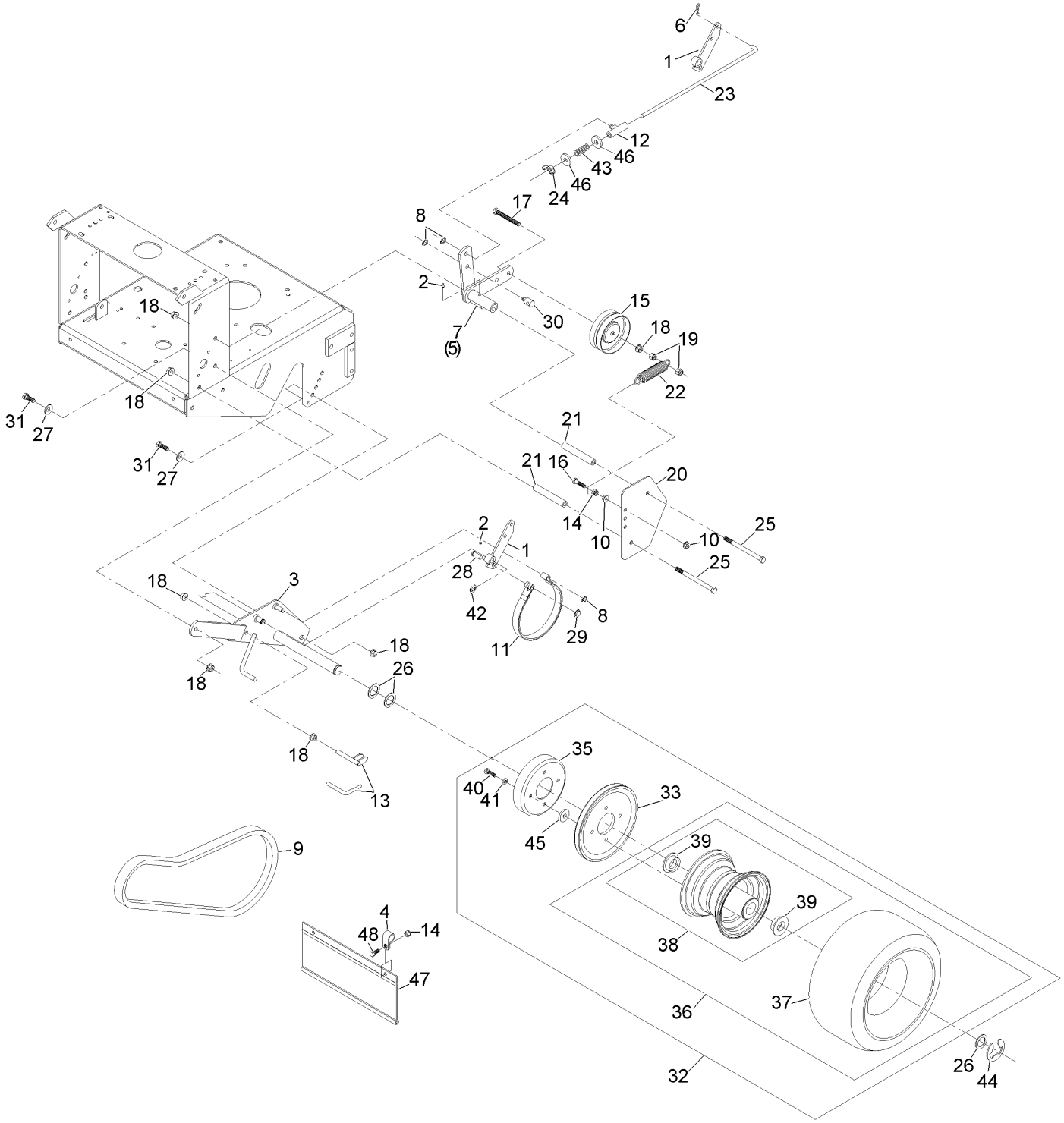


Engine Deck Assembly (continued)

Ref.	Part Number	Qty.	Description
1	103-3499	1	Rear Deck (117-3521-01) W/Decals
2	1-323500	1	Transmission
3	1-324340	2	Asm, 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	103-6512	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
14	3290-357	3	Nut-Whizlock 3/8-16
15	3296-39	1	Nut-Nyloc 3/8-16
16	103-3498	1	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	32128-20	2	Nut-Whizlock 5/16-18
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
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	1-803310	2	Setscrew-5/16-18 X 3/8 ■
29	1-633453	1	Spacer-Clutch
30	1-603610	2	Washer-Spring Disc 7/16
31	9264964	4	Bolt-HWH 5/16-18 X 3/4 Tap
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 7/16-20 X 1 1/4 ■
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	Asm Shift Lever, W/Grip
53	114-3550	4	Washer-Lock, Spring
54	114-3549	4	Nut-M8
55	1-653313	2	Gasket-Exhaust
56	116-4396	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.)

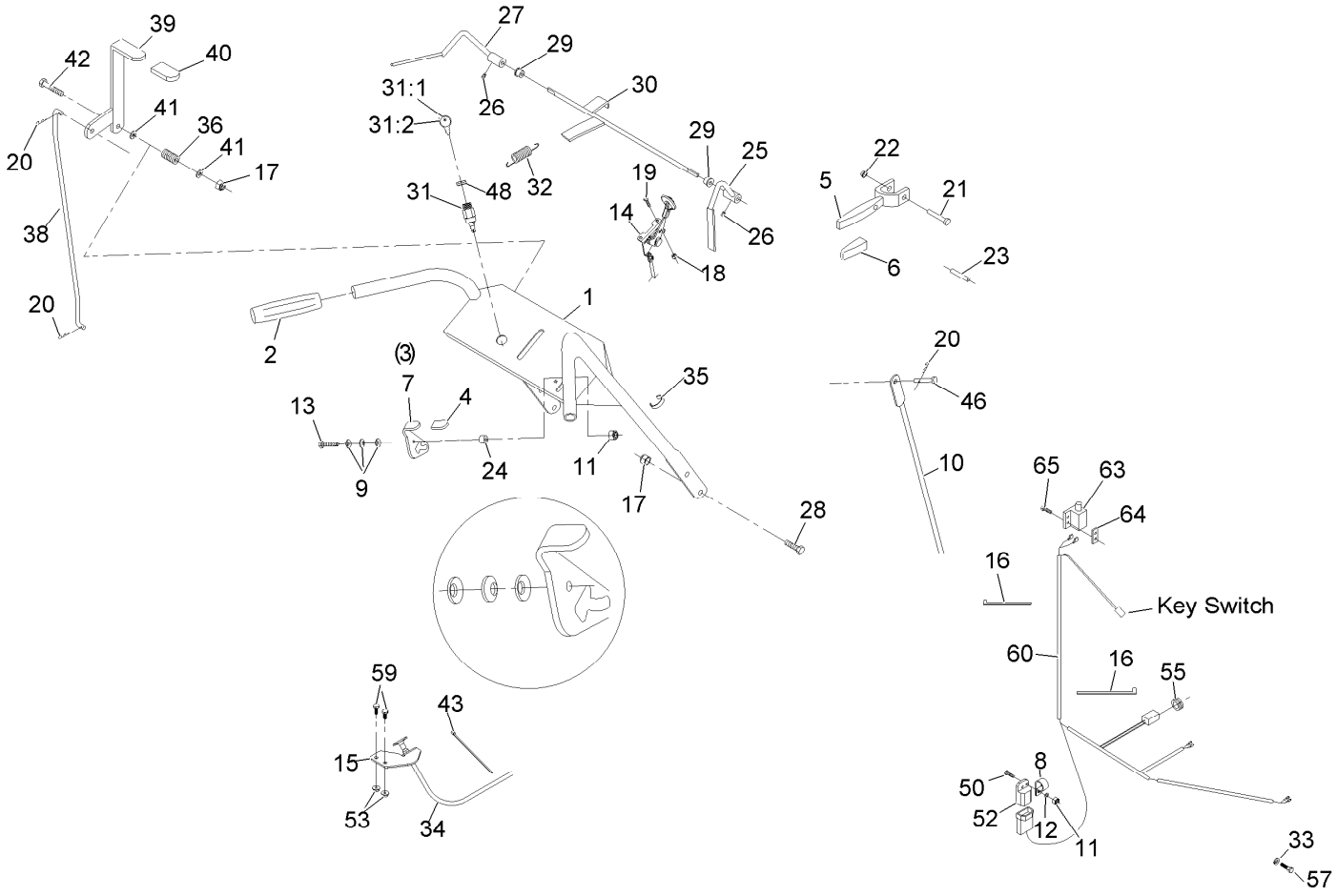


Engine Deck Assembly (cont.) (continued)

Ref.	Part Number	Qty.	Description
1	103-1611-03	2	Arm-Brake
2	302-19	4	Zerk-1/4-28 Str
3	1-322141-03	1	Axle
4	2412-104	2	Clamp-R
5	103-1615-03	1	Arm-Idler, LH
6	1-806003	2	Hairpin-Cotter
7	103-1616-03	1	Arm-Idler, RH
8	32151-47	6	Ring-Retaining
9	1-323344	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	1-603430	2	Scraper
14	3296-29	4	Nut-Nyloc 5/16-18
15	1-323352	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	1-323548	2	Linkage-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	103-1864	2	Swivel-Lever, Drive
31	323-6	4	Screw-HH 3/8-16 X 1
32	1-324193	2	Asm, Wheel Drive
33	1-323349	2	Sheave-Wheel, Drive
35	1-323261	2	Drum-Brake
36	1-323346	2	Wheel And Tire ASM
37	1-323361	1	Tire
38	1-323360	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
43	1-323245	2	Spring-Compression
44	1-808519	2	Ring-Snap
45	1-373034	8	Washer
46	3256-23	4	Washer-5/16 Sae
47	98-3259	1	Shield-Trailing
48	322-3	2	Screw-HH 5/16-18 X 3/4

● QTY As Required

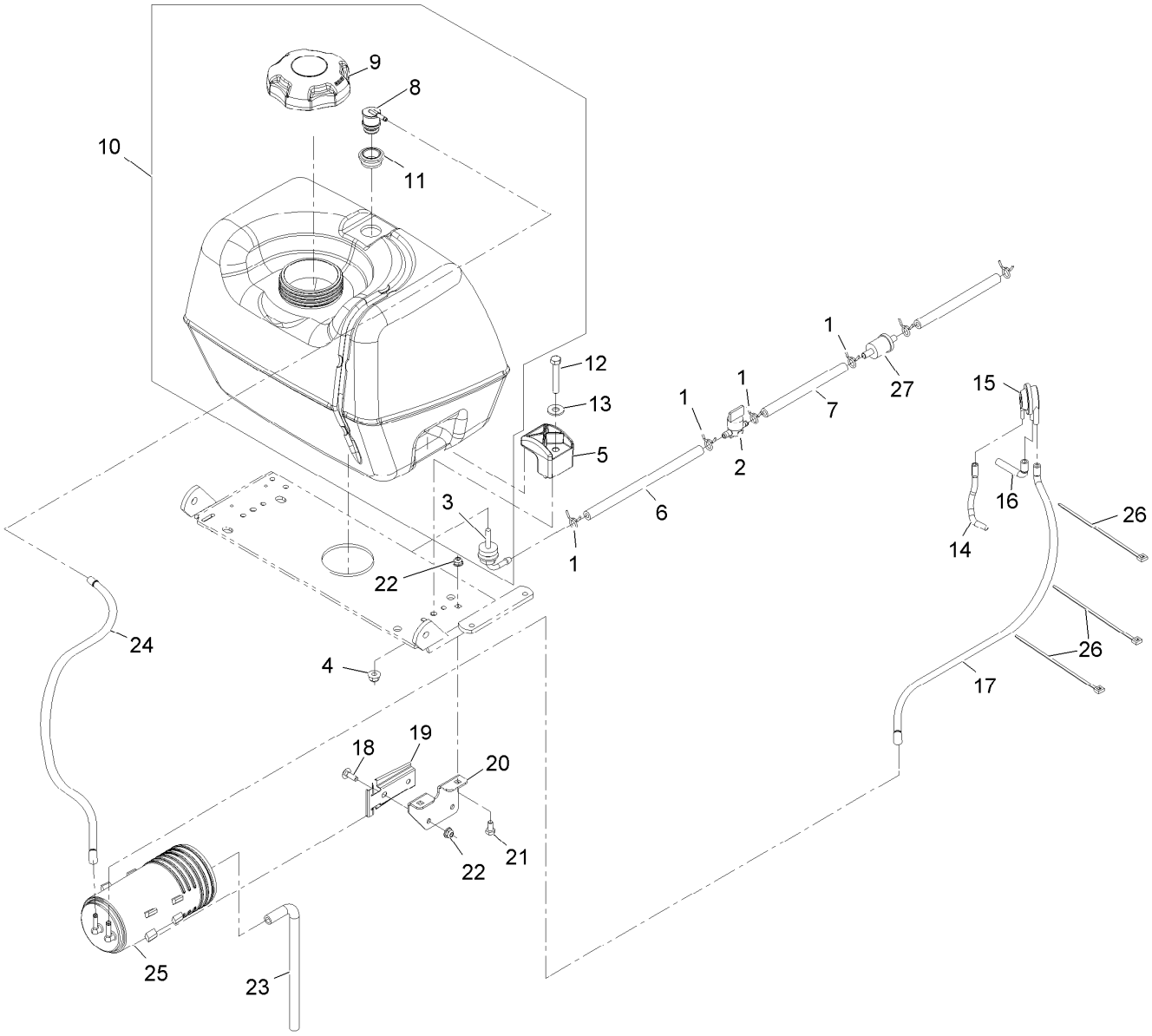
Pistol Grip Upper Handle and Controls



Pistol Grip Upper Handle and Controls (continued)

Ref.	Part Number	Qty.	Description
1	109-4695	1	Kit, Handle (109-4682-03) W/Decals
2	1-303097	2	Grip-Handle
3	1-324279	1	LH Thumb Latch ASM ●
4	1-303019	2	Grip-Latch
5	1-302006	2	Drive Lever ASM
6	1-303021	2	Grip-Lever, Drive
7	1-324280	1	RH Thumb Latch ASM
8	1-323229	1	Clip-Loom 3/8
9	1-303435	6	Washer-Spring Disc 1/4
10	1-323359	2	Linkage-Wheel, Drive
11	3296-42	3	Nut-Nyloc 1/4-20
12	3256-22	1	Washer-1/4 Sae
13	321-18	2	Screw-HH 1/4-20 X 2 1/4
14	116-2426	1	Cable, Throttle
15	103-1797-01	1	Bracket-Cable, Choke
16	1-303287	5	Tie-Cable 5 1/2 (Small)
17	3296-39	5	Nut-Nyloc 3/8-16
18	3296-2	2	Nut-Nyloc #10-24
19	1-807513	2	Bolt-Carriage #10-24 X 1/2
20	1-806003	4	Hairpin-Cotter
21	1-808250	2	Pin-Lever, Drive
22	1-803001	2	Nut
23	1-806340	2	Pin-Roll
24	1-323549	2	Spacer
25	1-412185-03	1	Lever-RH ▲
26	1-803322	2	Setscrew-5/16-24 X 5/16 ■
27	1-412183-03	1	Lever-LH ▲
28	323-6	4	Screw-HH 3/8-16 X 1
29	1-303365	2	Bushing-Nylon
30	1-322192-03	1	Rod, Connecting
31	1-403121	1	Switch-Key
31:1	1-603511	1	Key-Ignition
31:2	103-2106	1	Key-Exmark Logo
32	1-303363	1	Spring-Extension
33	33094-00	1	Washer
34	103-1796	1	Cable-Choke
35	1-303088	1	Clip-Cable
36	1-303160	1	Spring-Compression
38	1-323298	1	Linkage-Blade, Upper
39	1-322157	1	Lever ASM
40	1-303020	1	Grip-Lever
41	3256-4	2	Washer-3/8 Std
42	323-10	1	Screw-HH 3/8-16 X 2
43	1-303335	1	Tie-Cable 7 15/16 (Large)
46	1-808286	2	Pin-Clevis
48	103-0498	1	Nut-Ignition
50	321-4	1	Screw-HH 1/4-20 X 3/4
52	1-323430	1	Module-Interlock
53	32128-33	2	Nut-Whizlock 1/4-20
55	1-543296	1	Grommet
57	33114-016	1	Screw-HH M8-1.25 X 16Mm
59	321-3	2	Screw-HH 1/4-20 X 5/8
60	116-2661	1	Harness-Wire
63	1-513051	1	Switch-N.O.
64	1-633181	1	Plate-Tapped
65	3290-500	2	Screw-PPH #10-24 X 5/8

● 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.

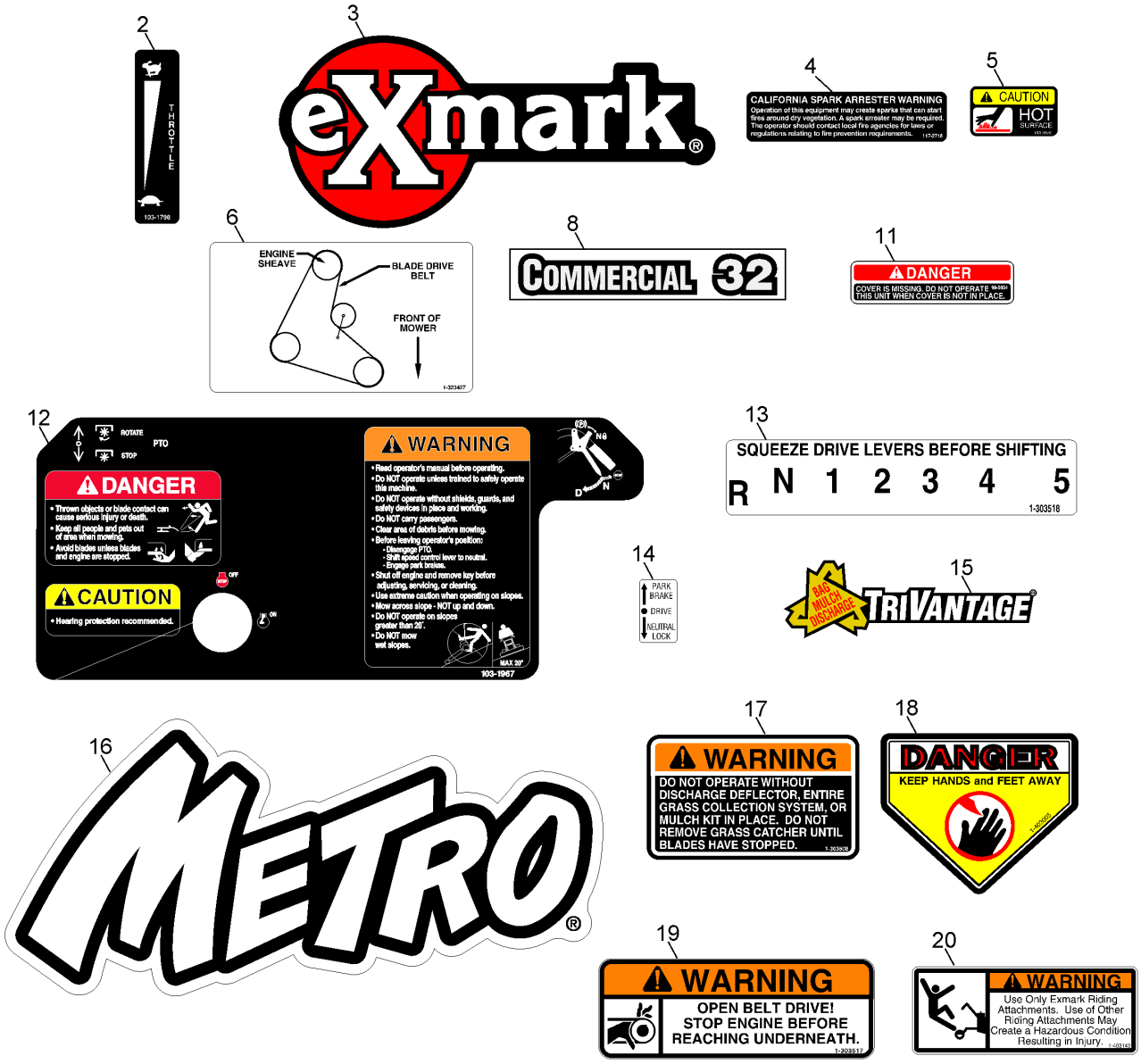


Fuel Tank Assembly

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
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
8	1-323410	1	Decal, Commercial
11	98-5954	1	Decal-Cover, Missing
12	103-1967	1	Decal, Console
13	1-303518	1	Decal, Shifter
14	1-323550	2	Decal, Neutral/Brake
15	1-303520	1	Decal, Trivantage
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
99	103-2640	1	Decal, Kit ●

● Not illustrated

Notes:

Notes:

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.



eXmark®

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