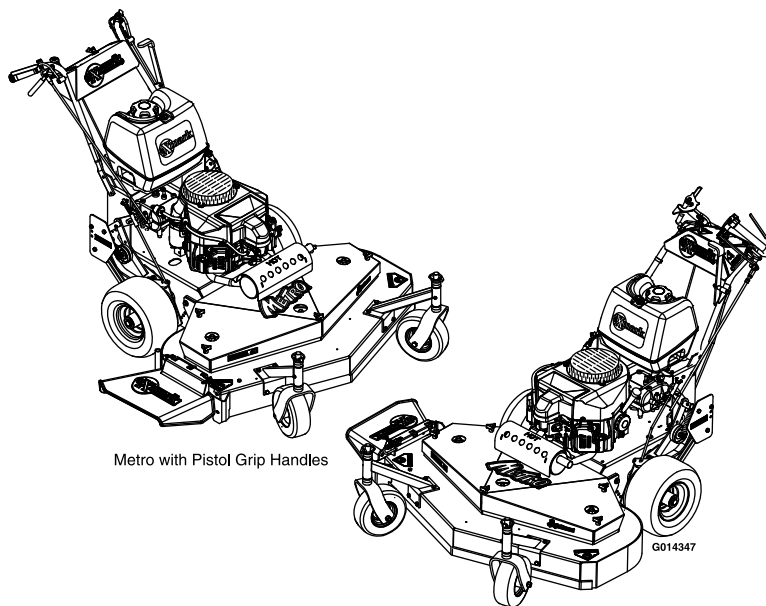




METRO®

Model No. MG16KA322PCA—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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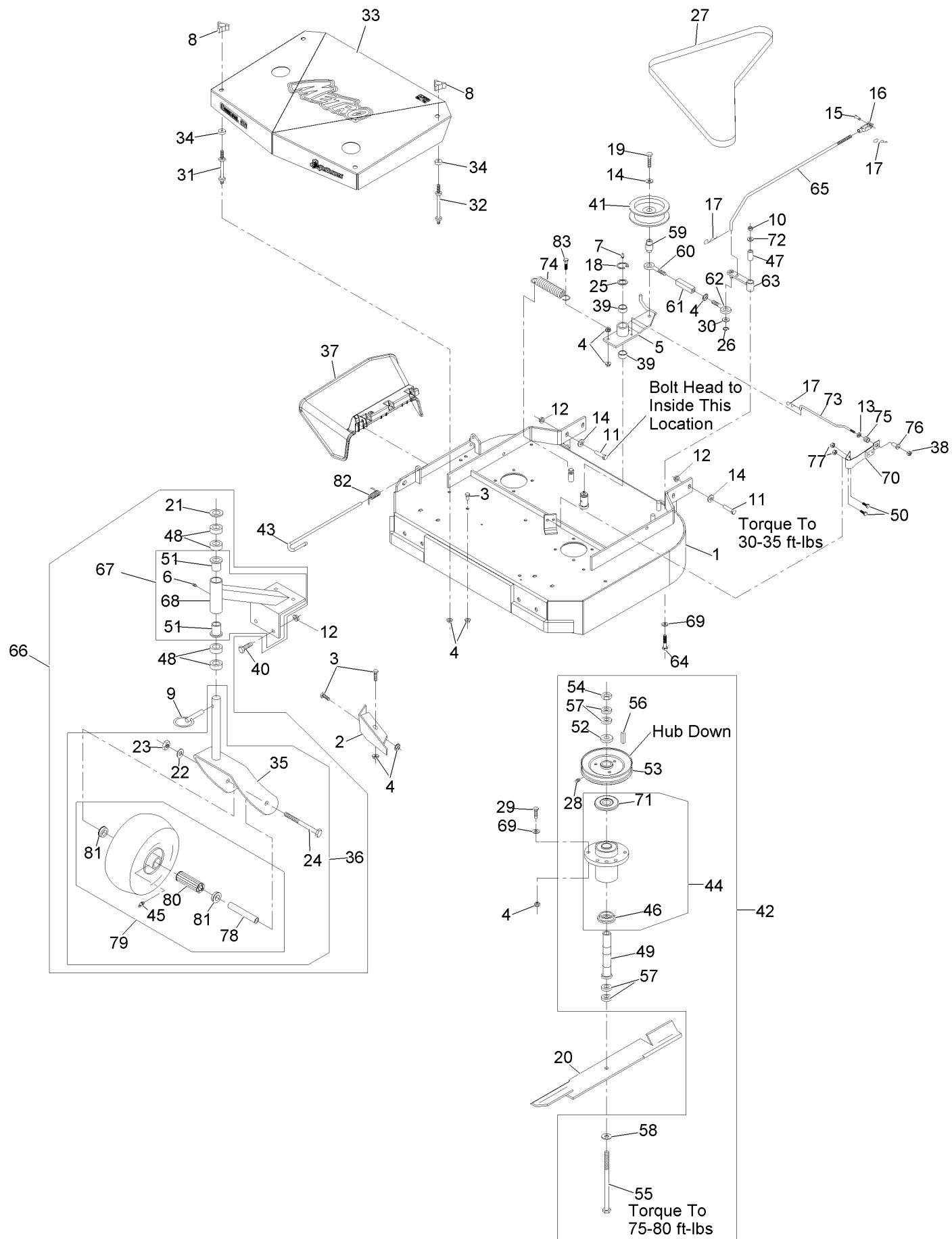
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Pistol Grip Upper Handle and Controls 12

Fuel Tank Assembly 14

Decals 15

Mower Deck Assembly



Mower Deck Assembly (continued)

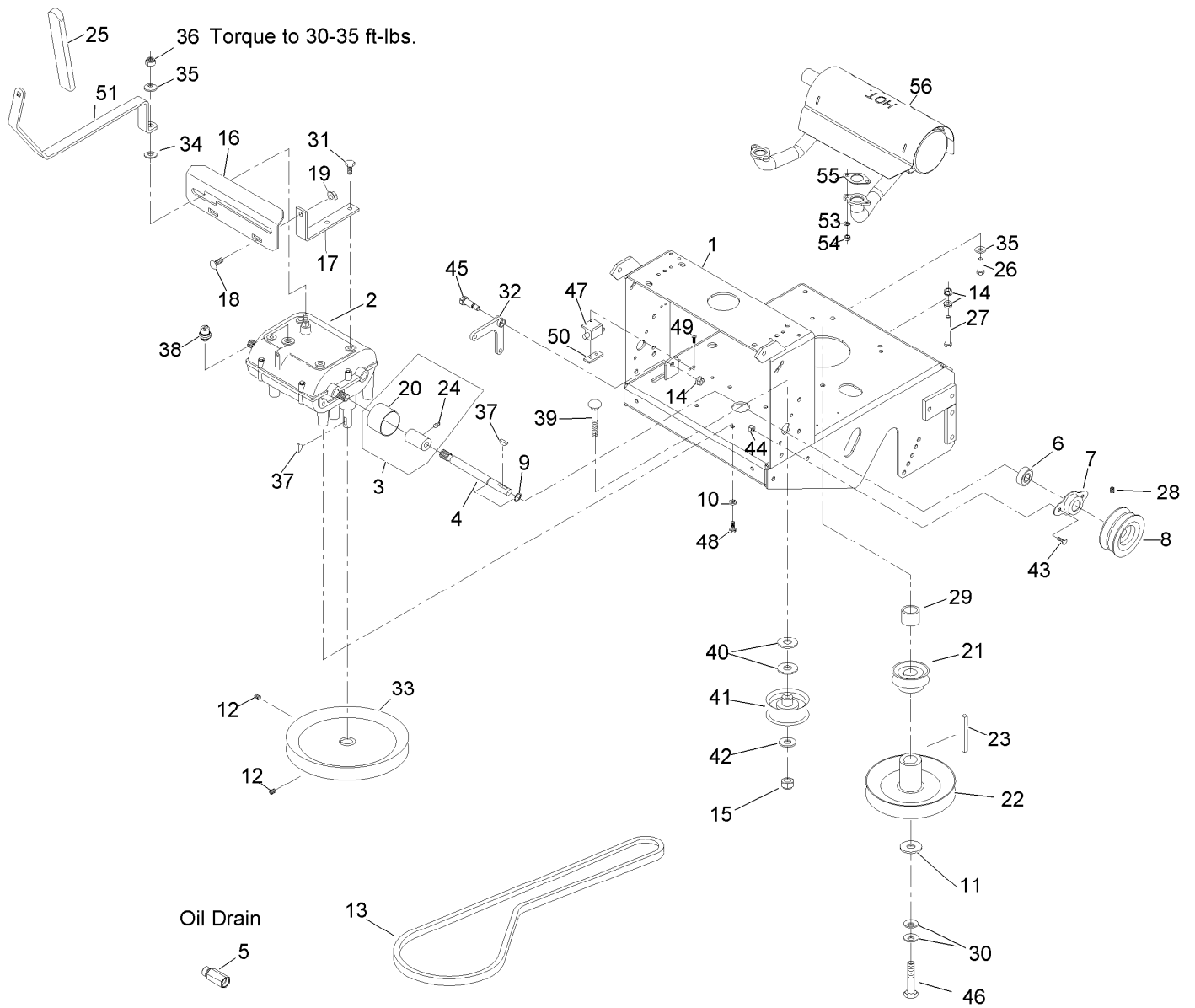
Ref.	Part Number	Qty.	Description	Ref.	Part Number	Qty.	Description
1	116-0799	1	Deck (116-0618-01) W/Decals & Dogleg & Discharge Deflector (32)	41	1-603843	1	Pulley-Idler
2	1-302189-01	1	Baffle-Dogleg	42	103-8387	2	Asm, Cutter Housing Complete
3	322-2	7	Screw-HH 5/16-18 X 5/8	43	109-8854	1	Pin-Chute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

● 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



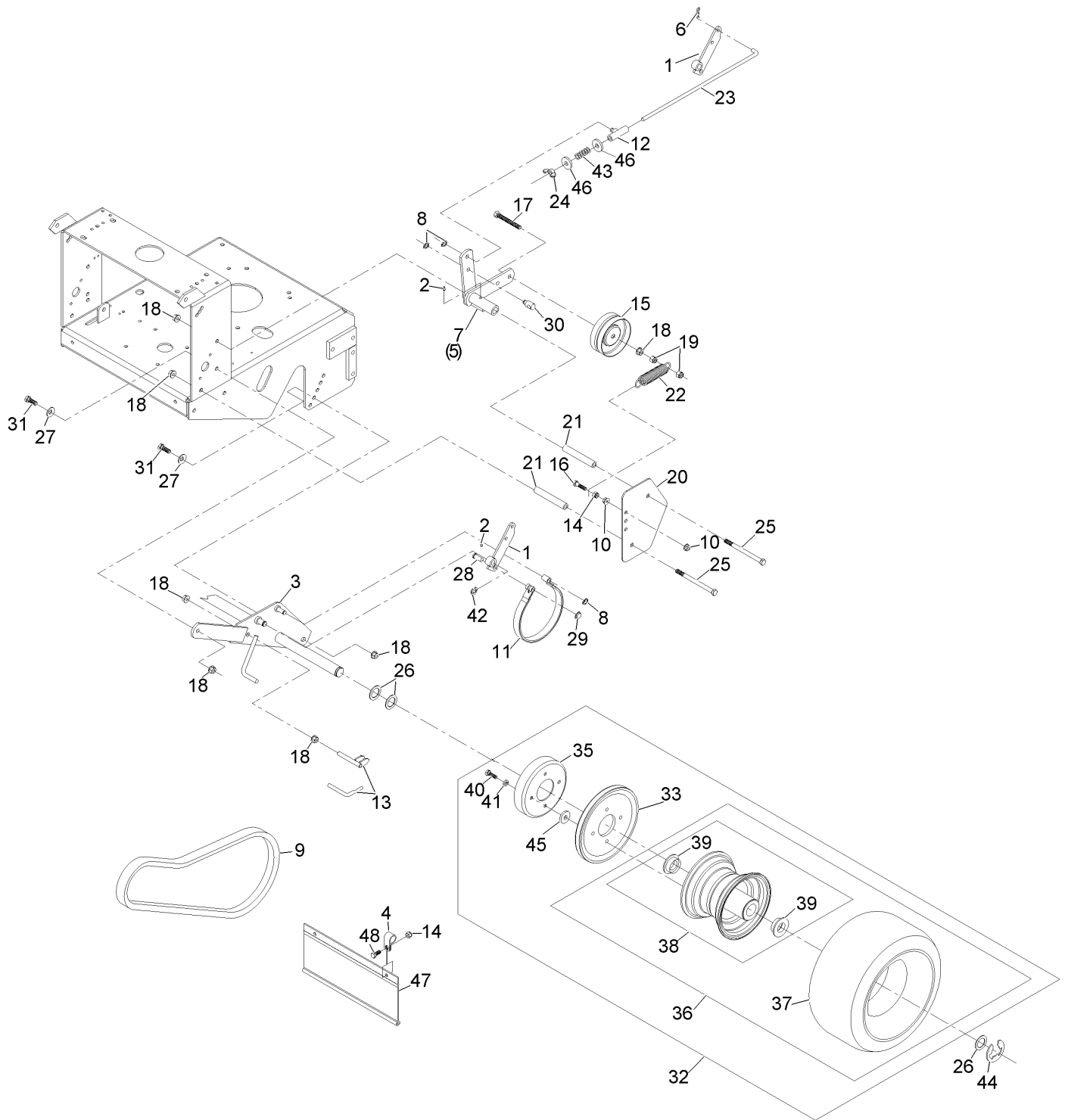
Engine Deck Assembly (continued)

<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	103-6512	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	116-4396	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.)

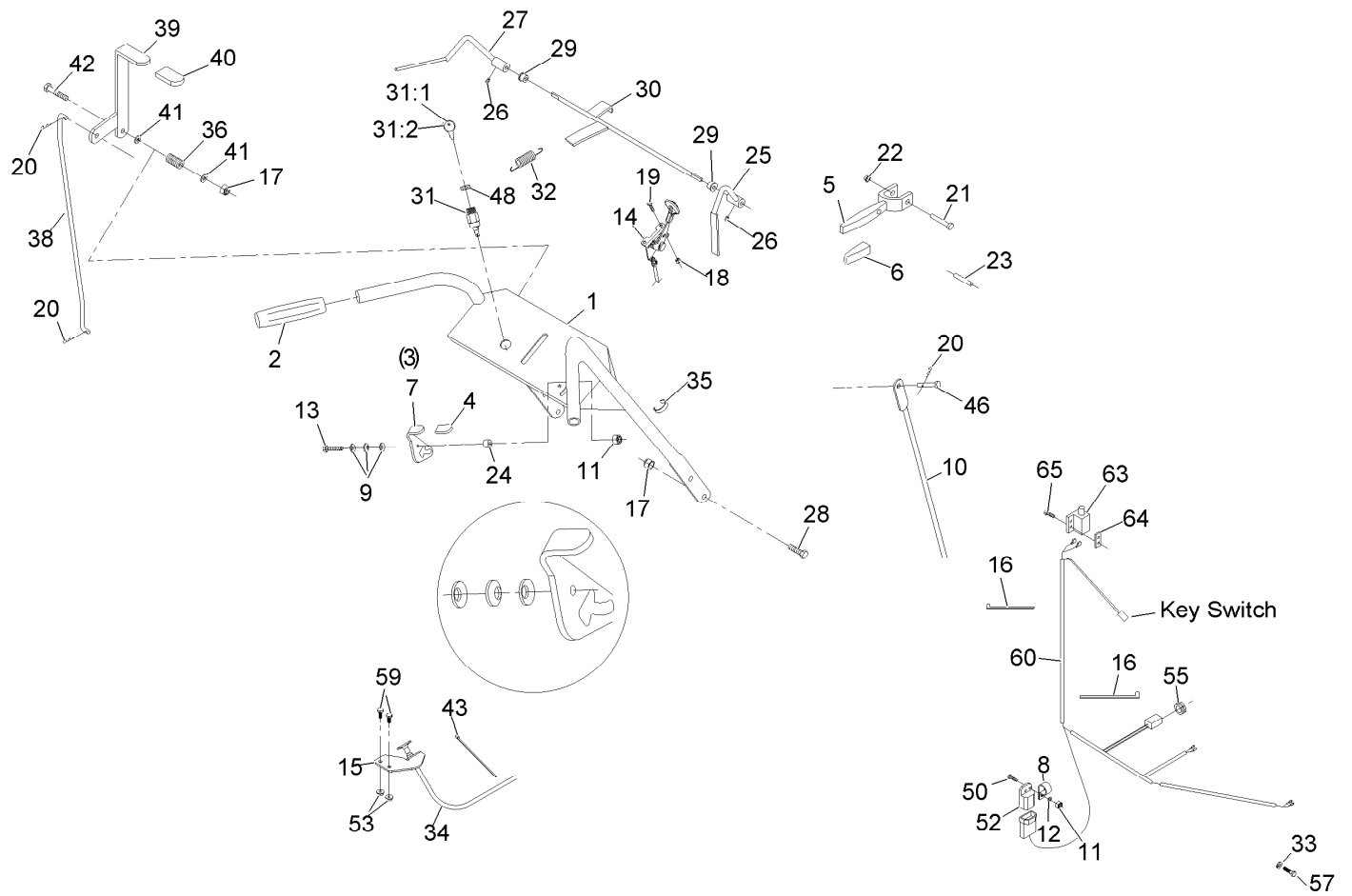


Engine Deck Assembly (cont.) (continued)

<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	25	323-39	4	Screw-HH 3/8-16 X 5
2	302-19	4	Zerk-1/4-28 Str	26	1-523157	1	Washer ●
3	1-322141-03	1	Axle	26	1-543436	1	Washer-Spacer ●
4	2412-104	2	Clamp-R	27	98-5975	4	Washer-Spring Disc 3/8
5	103-1615-03	1	Arm-Idler, LH	28	1-323307	2	Pin-Clevis 1/2 X 1
6	1-806003	2	Hairpin-Cotter	29	1-803051	2	Nut-Push 3/8
7	103-1616-03	1	Arm-Idler, RH	30	103-1864	2	Swivel-Lever, Drive
8	32151-47	6	Ring-Retaining	31	323-6	4	Screw-HH 3/8-16 X 1
9	1-323344	2	Belt-Wheel, Drive	32	1-324193	2	Asm, Wheel Drive
10	32128-20	4	Nut-Whizlock 5/16-18	33	1-323349	2	Sheave-Wheel, Drive
11	1-323262	2	Band-Brake	35	1-323261	2	Drum-Brake
12	110-5866	2	Swivel-Brake	36	1-323346	2	Wheel And Tire ASM
13	1-603430	2	Scraper	37	1-323361	1	Tire
14	3296-29	4	Nut-Nyloc 5/16-18	38	1-323360	1	Wheel And Hub ASM
15	1-323352	2	Idler-Wheel, Drive	39	1-323329	4	Bearing-Flanged
16	322-6	2	Screw-HH 5/16-18 X 1 1/4	40	322-5	8	Screw-HH 5/16-18 X 1
17	99-8664	2	Bolt-HH 3/8-16 X 3 Tap	41	1-805005	8	Washer-Lock 5/16 Heavy
18	3290-357	14	Nut-Whizlock 3/8-16	42	32120-47	2	Ring-Retaining
19	3296-39	4	Nut-Nyloc 3/8-16	43	1-323245	2	Spring-Compression
20	1-323287-01	2	Shield-Wheel, Drive	44	1-808519	2	Ring-Snap
21	1-323283	4	Spacer-Shield	45	1-373034	8	Washer
22	1-603402	2	Spring-Extension	46	3256-23	4	Washer-5/16 Sae
23	1-323548	2	Linkage-Brake	47	98-3259	1	Shield-Trailing
24	1-513959	2	Wingnut-Nyloc 5/16	48	322-3	2	Screw-HH 5/16-18 X 3/4

● QTY As Required

Pistol Grip Upper Handle and Controls



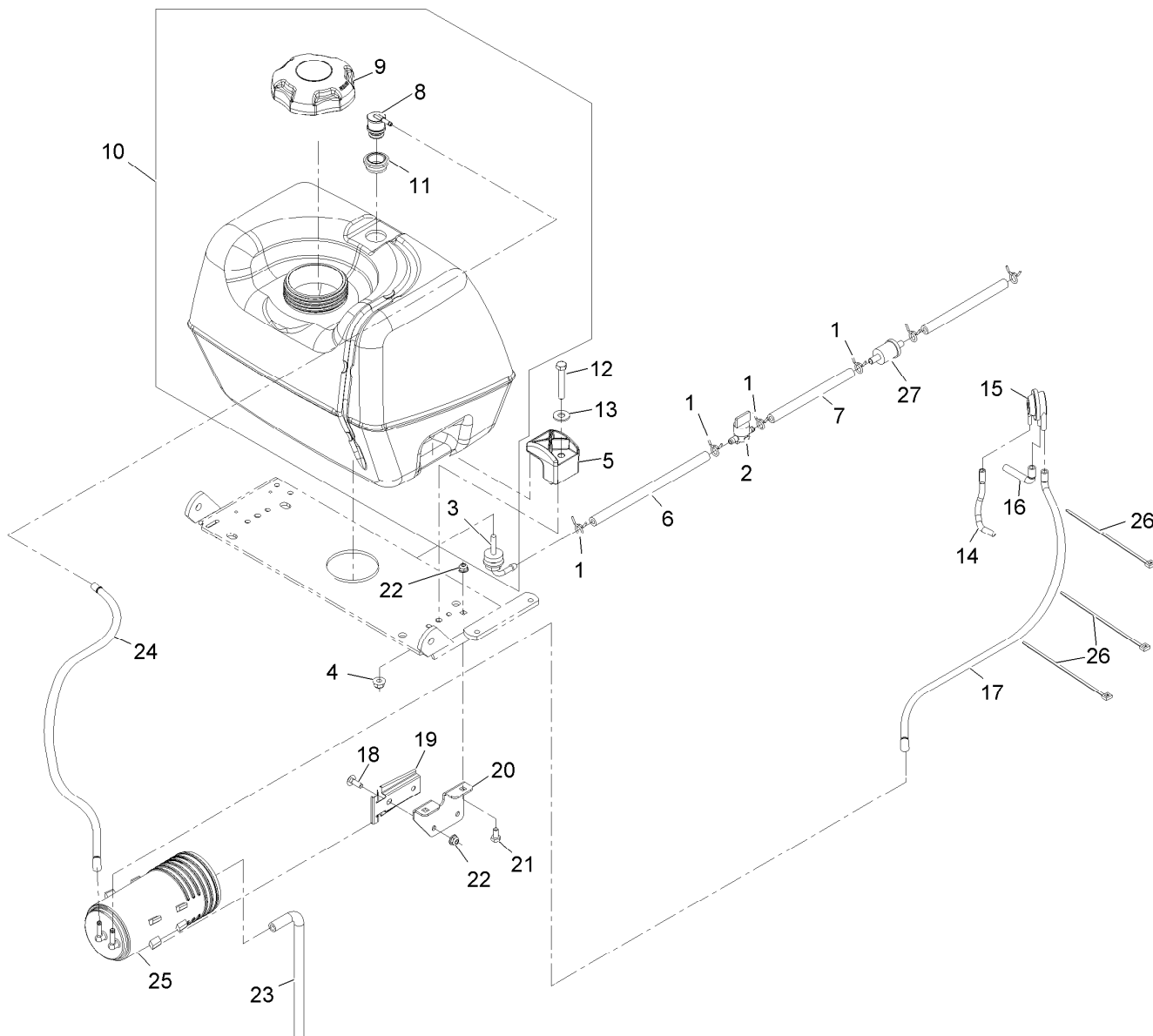
Pistol Grip Upper Handle and Controls (continued)

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

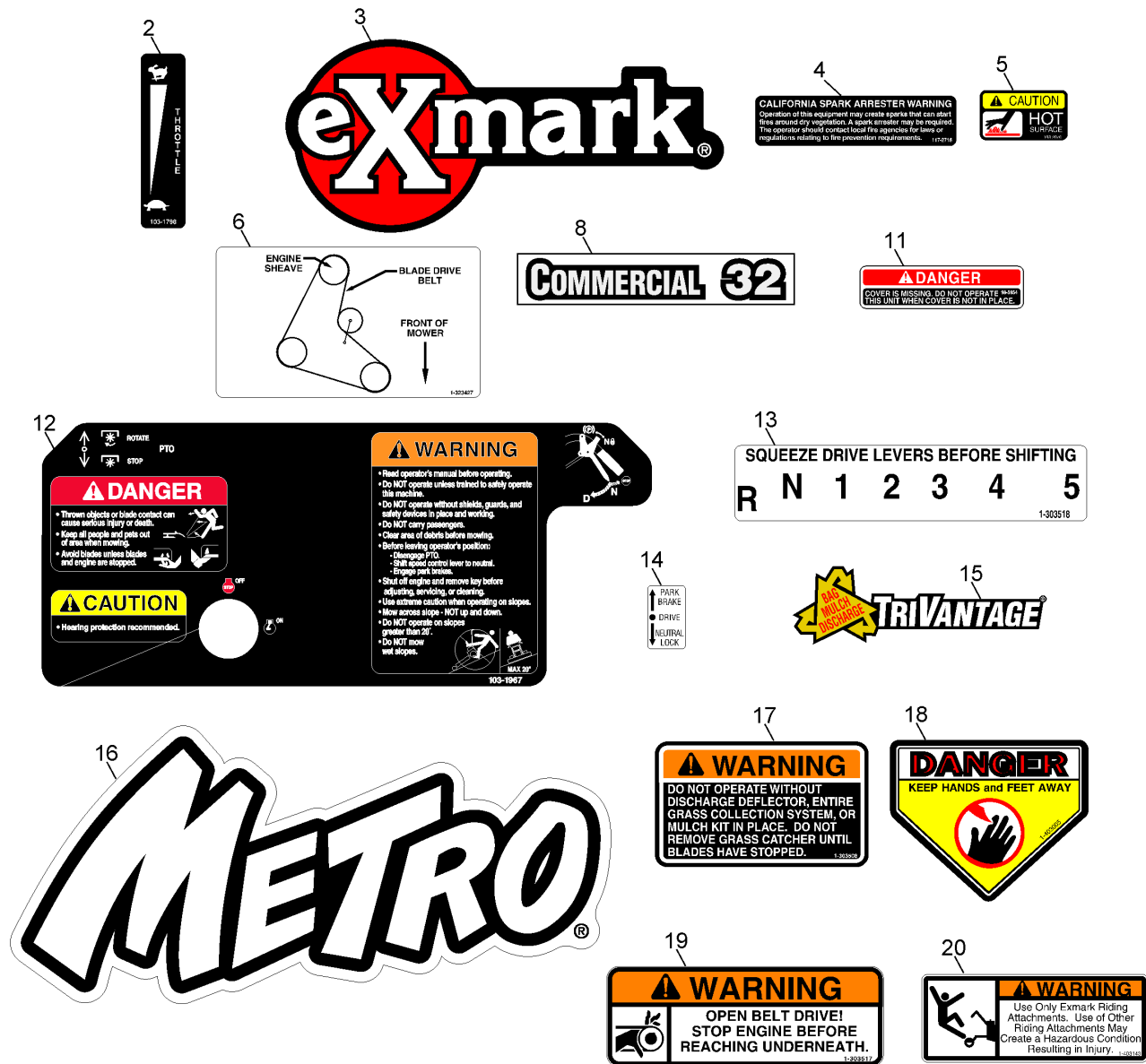
Ref.	Part Number	Qty.	Description
1	2412-98	4	Clamp-Hose
2	1-603770	1	Valve-Fuel
3	103-2605	1	Fitting-Fuel Bulkhead W/Strainer ▲
4	104-8300	2	Nut-Nyloc 5/16-18 Flg
5	107-4543	2	Clamp
6	109-0650	1	Hose-Fuel
7	99-9415	1	Hose-Fuel
8	114-0285	1	Valve-Rollover
9	115-4465	1	Cap-Fuel, Ratcheting
10	116-3656	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

Ref.	Part Number	Qty.	Description
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, Sully Warning
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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