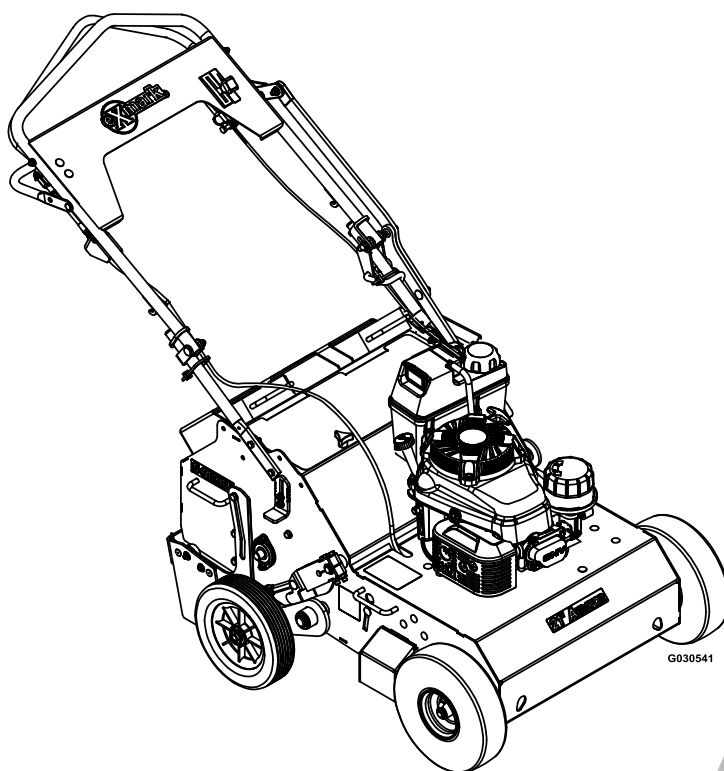




21 INCH WALK-BEHIND AERATOR

Model No. ARS180CKA21000—Serial No. 315000000 and Up

Picture below may not reflect actual product.



Parts Manual

Part No. 4502-174 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	HLH: hex lag head	PTH: phillips truss head
ASM: assembly	HOC: height-of-cut	PTO: power-take-off
BBC: blade brake control	HP: high pressure	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: low pressure	SRH: slotted round head
FH: flat head	LPG: Liquefied Petroleum Gas	STD: standard
GA: gauge	NI: nylon insert	TAP: self tapping
HD: heavy-duty	NPTF: national pipe thread fine	TTH: torx truss head
HF: hex flange	PFH: phillips flat head	
HH: hex head	PPH: phillips pan head	
HHF: hex head flange	PPHTF: phillips pan head thread forming	
HHFTF: hex head flange thread forming	PRH: phillips round head	
HJ: hex jam		

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).

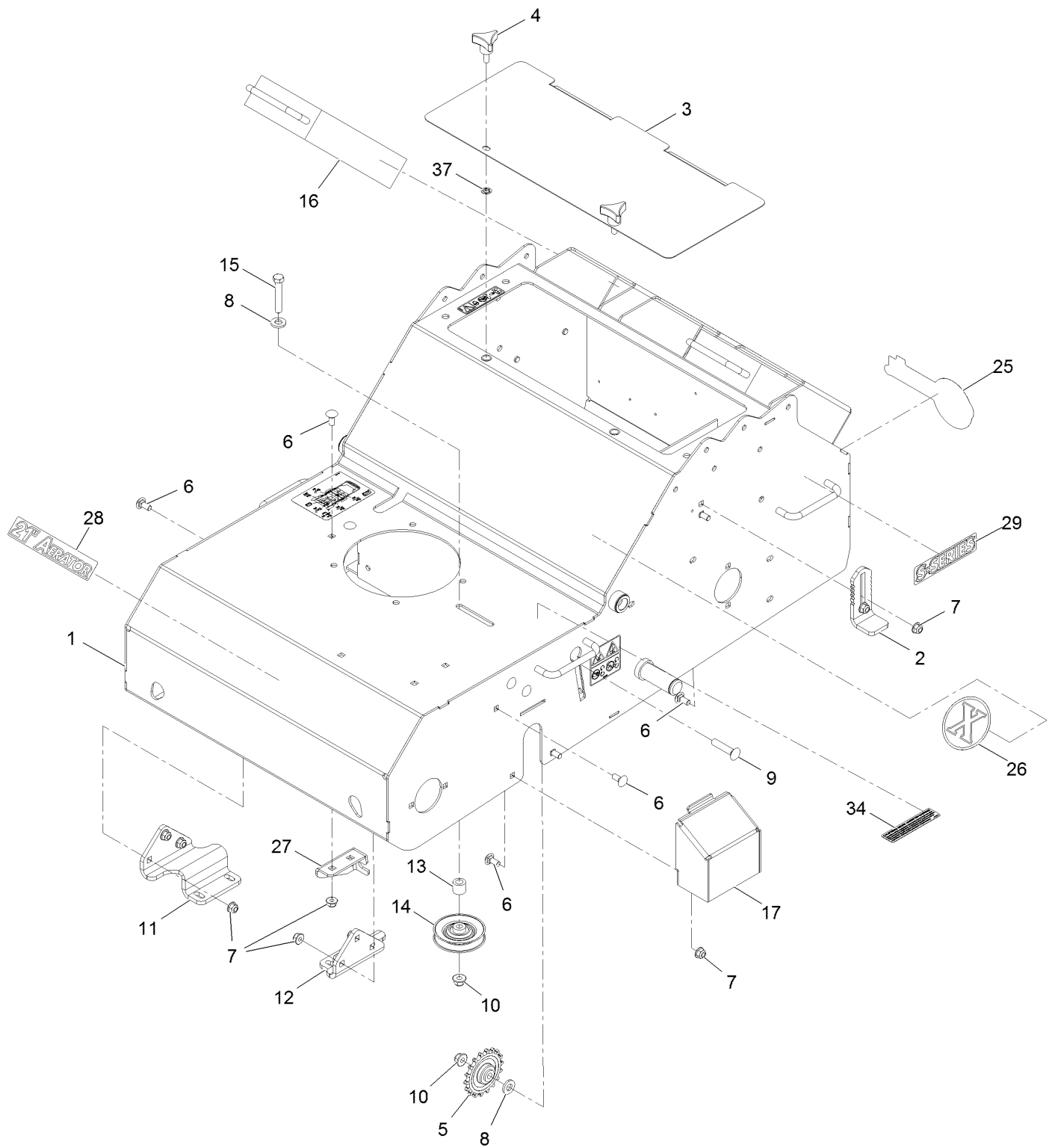


If your Exmark dealer does not have the Exmark part in stock, Exmark will get the parts to the dealer the next business day or the part will be FREE Guaranteed!! (Some restrictions apply. See your participating Exmark Dealer for details.)

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Drive Assembly.....	10
Handle Assembly	12
Height Linkage Assembly	14
Tine Wheel Drive Assembly	16

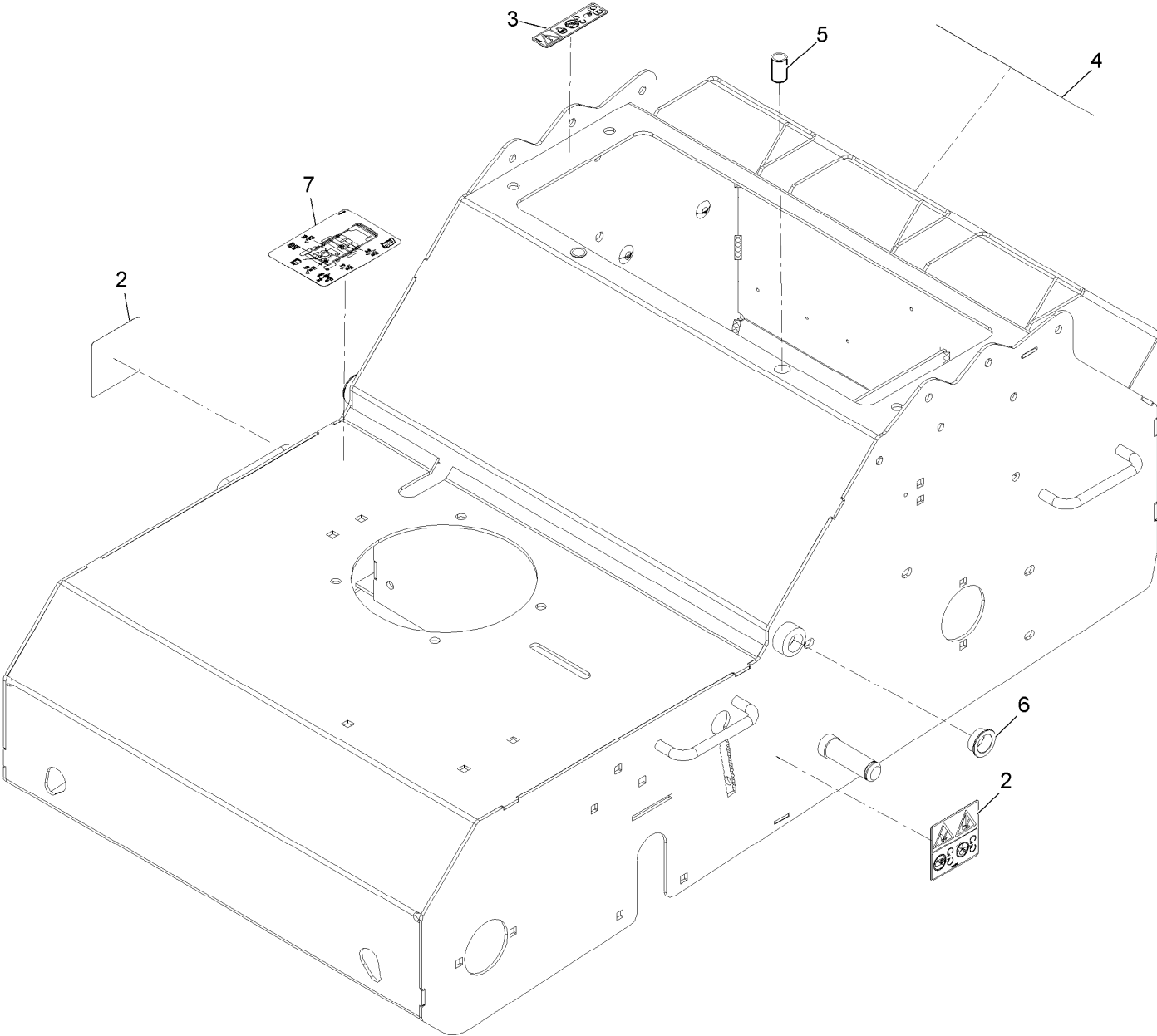
Frame Assembly



Frame 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	126-5102	1	Frame ASM	14	62-4530	1	Pulley
2	116-9886	2	Stop-Depth	15	323-11	1	Screw-HH 3/8-16 X 2 1/4
3	126-0974-01	1	Cover-Access	16	121-6080	2	Weight-Aerator
4	109-3351	2	Knob-5/16X3/4 3-Prong	17	121-1981-01	2	Cover-Transaxle
5	121-4915	2	Sprocket-Idler	25	103-3999	1	Decal, Exmark Logo (Console)
6	3230-1	16	Bolt-Carriage 5/16-18 X 3/4	26	116-7035	1	Decal-Exmark X-Logo
7	104-8300	16	Nut-Nyloc 5/16-18 Flg	27	121-6056	1	Bracket-Mounting, Cable
8	87-7480	3	Washer	28	116-6953	1	Decal-Aerator 21
9	3231-29	2	Bolt-Carriage 3/8-16 X 1 3/4	29	116-3884	2	Decal-S-Series
10	104-8301	3	Nut-Nyloc 3/8-16 Flg	34	117-2718	1	Decal-Arrester, Spark
11	121-4948-03	1	Bracket-Mount Axle, RH	37	117-2749	2	Nut-Push
12	121-4949-03	1	Bracket-Mount Axle, LH				
13	121-6087	1	Bushing-Idler				

Frame Assembly W/Decals

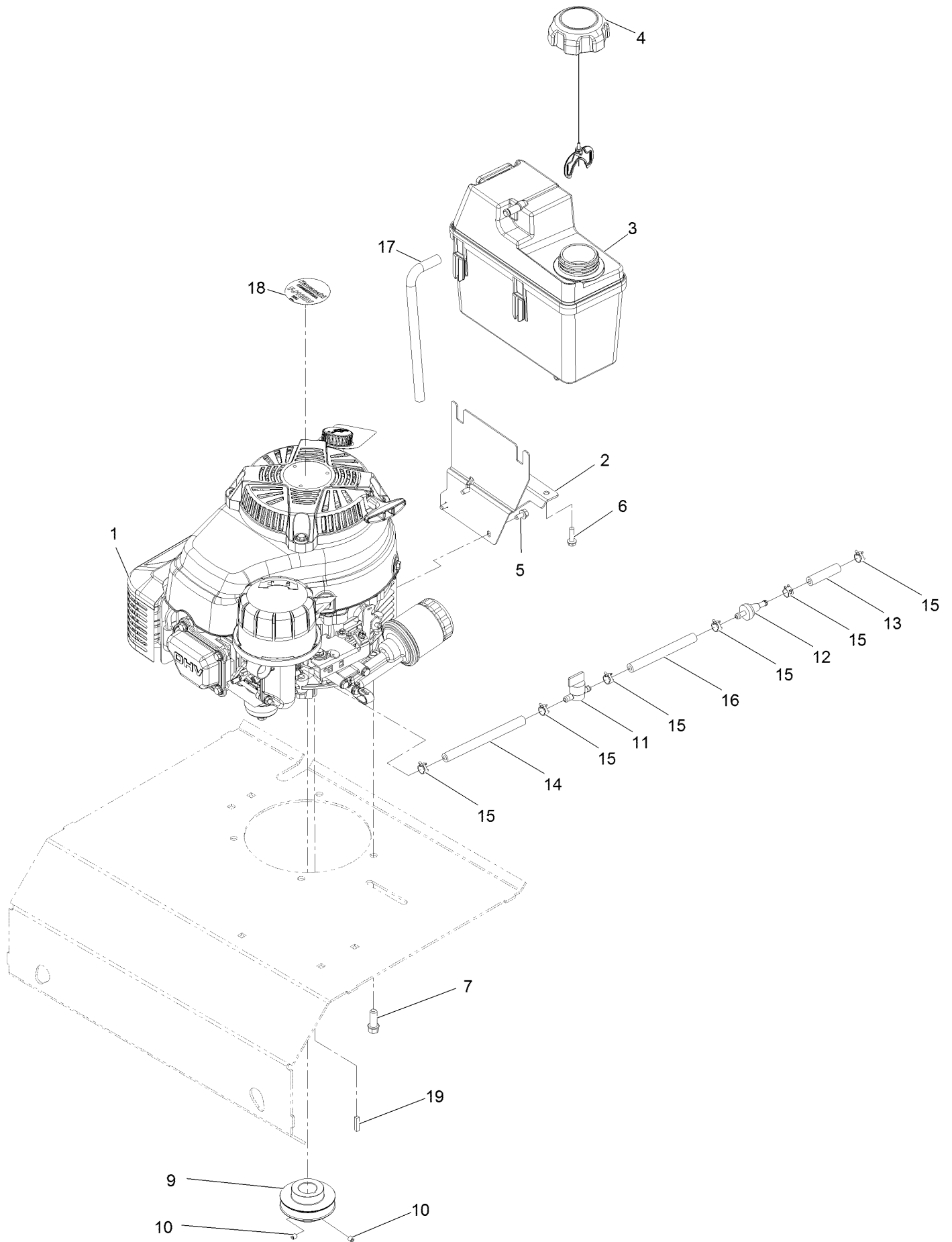


Frame Assembly W/Decals (continued)

<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>
2	121-6150	2	Decal-Warning
3	119-0217	1	Decal-Danger
4	126-0651	1	Decal-Warning

<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>
5	32148-7	2	Nut-Insert
6	108519	2	Bushing-Bronze
7	126-1209	1	Decal-Service Aid

Engine Assembly



Engine Assembly (continued)

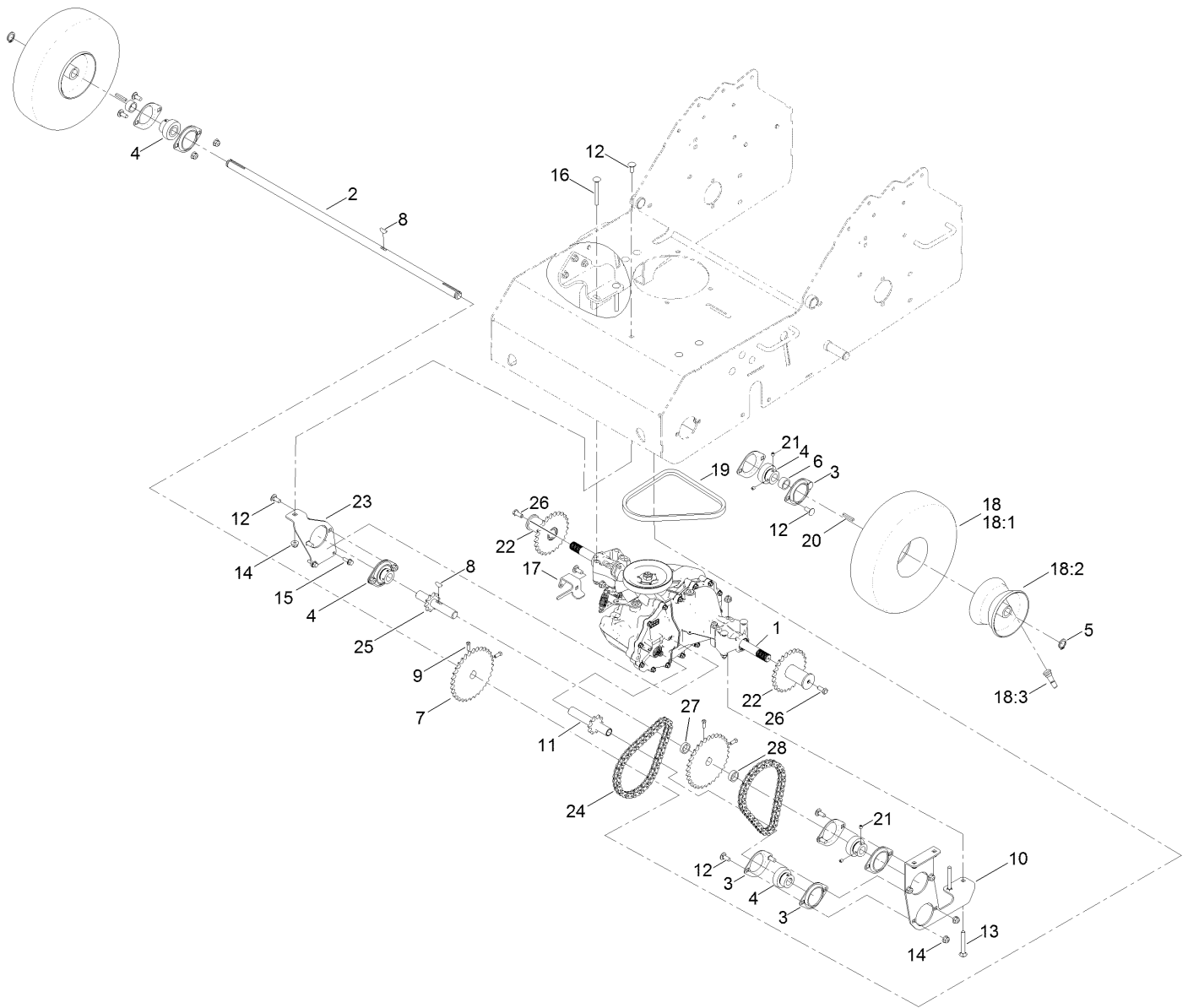
<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>	<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>
1		1	Engine-Kawasaki, Fj180V-Bm02-M ● ■	10	3245-35	2	Screw-Set HSH 1/4-28 X 1/4 ▲
2	115-0954-03	1	Mount-Tank	11	1-603770	1	Valve-Fuel
3	114-0280	1	Tank-Fuel	12	71-9280	1	Filter-Fuel
4	115-7788	1	Cap-Fuel	13	99-9415	1	Hose-Fuel
5	104-2628	3	Screw-HWH M6-1 X 12Mm Tf	14	109-0300	1	Hose-Fuel
6	46-8091	2	Screw-HWH 1/4-10 X .82 Plastite	15	2412-98	6	Clamp-Hose
7	95-1726	4	Screw-HWH 3/8-16 X 1 Taptite	16	109-0650	1	Hose-Fuel
9	126-0839	1	Pulley-Driver	17	115-0962	1	Hose-Vent, Canister
				18	109-6528	1	Decal-Recoil
				19	6366	1	Key-3/16 X 3/16 X 7/8

● Not serviced separately

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

■ Obtain parts from www.kawpowerepc.com

Drive Assembly

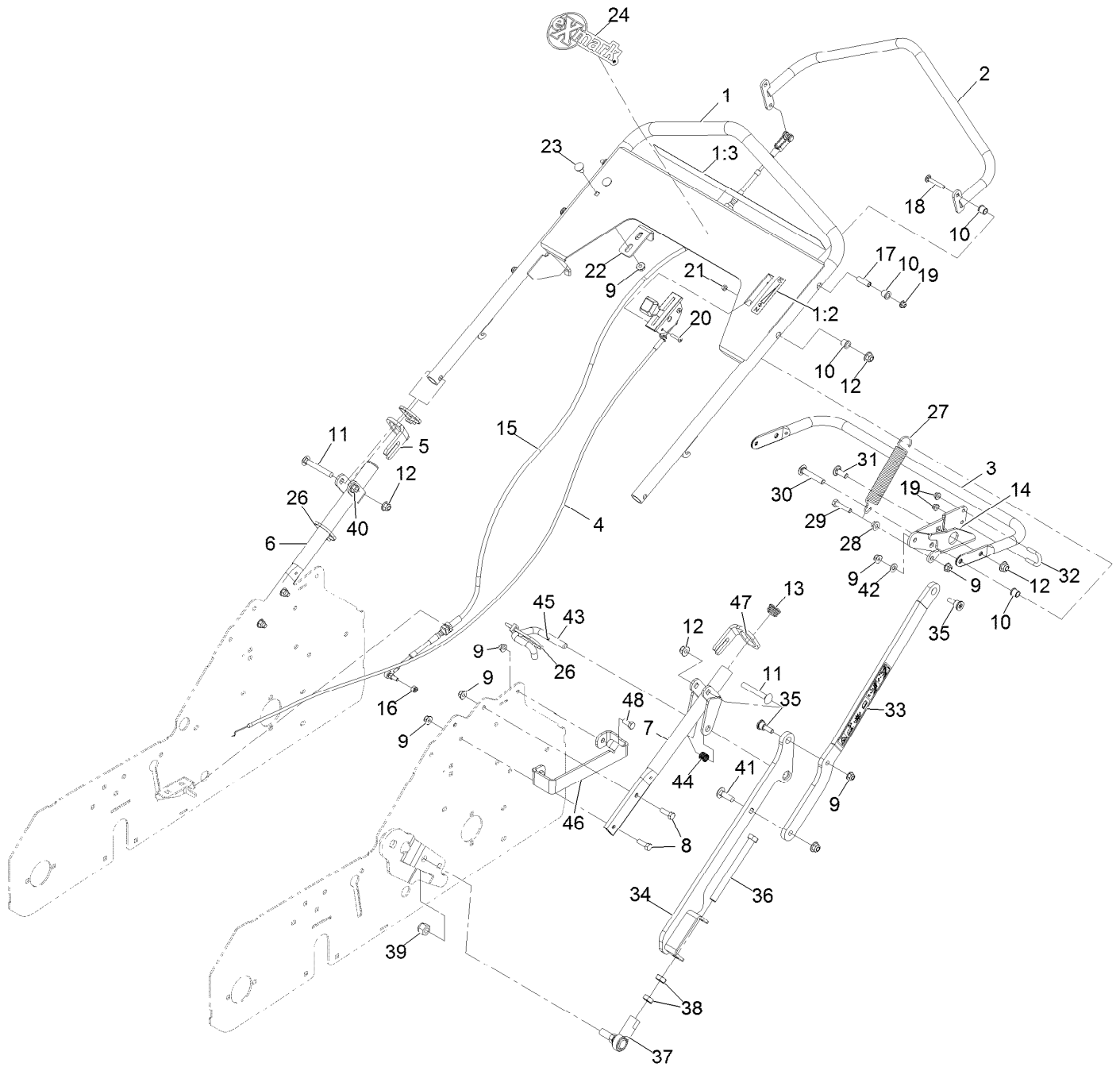


Drive Assembly (continued)

<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	121-4899	1	Transaxle ASM	17	121-6067	1	Angle-Control
2	121-4927	1	Shaft-Wheel	18	120-3550	2	Wheel ASM
3	105-9714	10	Flange-Bearing	18:1	121-6081	1	Tire
4	120-9350	5	Bearing-Lock, Collar	18:2	121-6082	1	Wheel-Rim
5	32120-93	2	Ring-Retaining	18:3	5108	1	Valve
6	121-4931	2	Spacer-Wheel	19	121-1999	1	Belt-Drive
7	121-4934	2	Sprocket	20	92-0049	2	Key-Square
8	3257-5	2	Key-Woodruff	21	3245-35	10	Screw-Set, HSH ●
9	3241-5	4	Screw-Set ●	22	116-9860	2	Sprocket
10	121-4936-03	1	Plate-Bearing	23	121-4932-03	1	Bracket-Support, Shaft
11	121-4937	1	Shaft-Output	24	121-6105	2	Chain-Drive Wheel
12	3230-23	14	Screw-CARR	25	121-6108	1	Shaft-Jack
13	3230-8	2	Screw-CARR	26	3235-6	2	Screw-HH ●
14	104-8300	20	Nut-Flange, NI	27	105-3828	1	Spacer
15	3234-4	2	Screw-HHF	28	94-9524	1	Spacer-Control
16	3230-9	4	Screw-CARR				

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

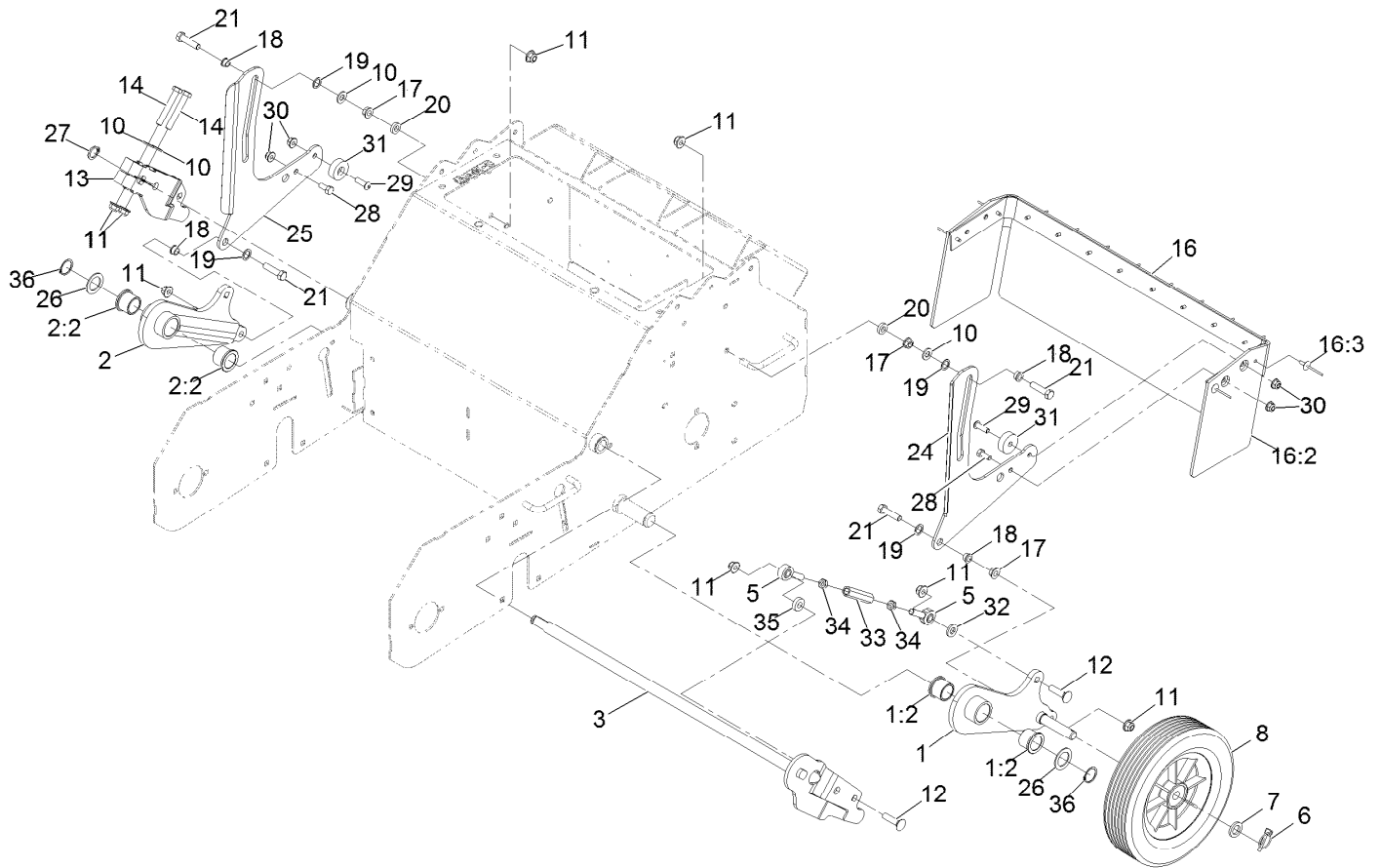
Handle Assembly



Handle 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	126-0639	1	Handle ASM	24	103-3999	1	Decal, Exmark Logo (Console)
1:2	121-6151	1	Decal-Throttle, Choke	26	3290-378	3	Tie-Cable
1:3	116-8699	1	Decal-Aerator Control Panel	27	106-2177	1	Spring-Extension
2	121-6053-03	1	Tube-Control	28	32128-20	1	Nut-Whizlock 5/16-18
3	116-9873-03	1	Tube-Handle Lift	29	322-7	1	Screw-HH 5/16-18 X 1 1/2
4	116-9898	1	Control-Throttle	30	3231-40	1	Bolt-Carriage 3/8-16 X 2 1/4
5	126-6287	1	Ring, Handle Lock	31	3231-22	1	Bolt-Carriage 3/8-16 X 1
6	121-1893-03	1	Handle-Lower	32	01-170-0040	1	U-Bolt
7	116-9883-03	1	Asm-Lower Handle	33	126-6512	1	ASM, Upper Link W/ Decal
8	322-5	4	Screw-HH 5/16-18 X 1	34	126-5470-03	1	Arm-Lower
9	104-8300	11	Nut-Nyloc 5/16-18 Flg	35	119-4073	2	Bolt-Shoulder, Groomer
10	103-9928	8	Bearing	36	126-5473	1	Screw-HH 1/2-20 X 5 1/2
11	3231-9	2	Bolt-Carriage 3/8-16 X 2 3/4	37	86-1550	1	End-Rod, RH Thread
12	104-8301	5	Nut-Nyloc 3/8-16 Flg	38	3220-5	2	Nut-Jam 1/2-20
13	121-4870	2	Plug	39	3296-19	1	Nut-Nyloc 1/2-20
14	126-5715-03	1	Arm-Upper	40	3290-357	2	Nut-Whizlock 3/8-16
15	121-6068	1	Cable	41	3231-25	1	Bolt-Carriage 3/8-16 X 1 1/4
16	3296-3	1	Nut-Nyloc 1/4-28	42	3256-23	1	Washer-5/16 Sae
17	121-6060	3	Bushing-Pivot	43	126-5150	1	Pin-Latch, Tranport
18	3229-5	3	Screw-CARR	44	126-5151	1	Spring-Compression
19	104-7201	5	Nut-Nyloc 1/4-20 Flg	45	32121-50	1	Pin-Spring
20	3250-27	2	Screw-PPH #10-24 X 7/8	46	126-6291-03	1	Strap, Stop
21	3296-2	2	Nut-Nyloc #10-24	47	126-6500	1	Ring, Handle Lock
22	121-6057	1	Angle-Stop	48	322-3	2	Screw-HH
23	3230-18	2	Bolt-Carriage 5/16-18 X 5/8				

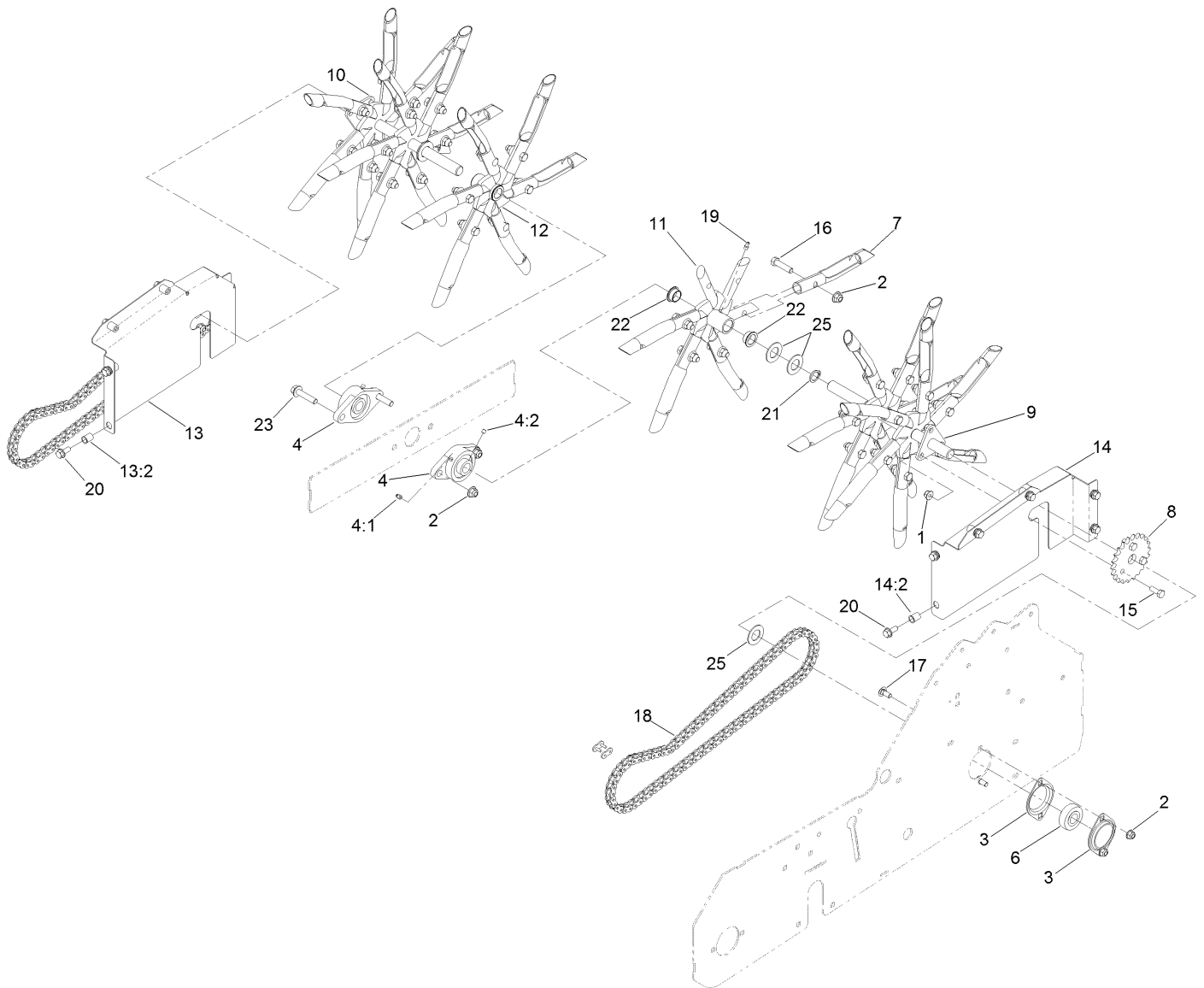
Height Linkage Assembly



Height Linkage 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	126-5098	1	LH Wheel Arm ASM	18	1-603735	4	Bushing-Flanged
1:2	94-8949	2	Bushing-Flange	19	94-8196	4	Washer-Nylon
2	126-5099	1	RH Wheel Arm ASM	20	80-7730	2	Spacer
2:2	94-8949	2	Bushing-Flange	21	323-8	4	Screw-HH 3/8-16 X 1 1/2
3	126-5160	1	Shaft-Pivot	24	126-0824-01	1	Guard-Arm, LH
5	1-613204	4	Balljoint	25	126-0825-01	1	Guard-Arm, RH
6	3290-495	2	Pin-Klik	26	1-523157	2	Washer
7	63-9710	2	Spacer-Bearing	27	32120-93	1	Ring-Retaining
8	121-4897	2	Wheel-Transport 10"	28	322-3	2	Screw-HH 5/16-18 X 3/4
10	3256-24	4	Washer-3/8 Sae	29	109-4872	2	Screw-Hsph 5/16-18 X 1
11	104-8301	10	Nut-Nyloc 3/8-16 Flg	30	104-8300	4	Nut-Nyloc 5/16-18 Flg
12	3231-4	4	Bolt-Carriage 3/8-16 X 1 1/2	31	116-8331	2	Guide-Arm, Trail
13	126-1345-03	1	Arm-Lift RH	32	87-7480	2	Washer
14	323-12	2	Screw-HH 3/8-16 X 2 1/2	33	116-9855	2	Rod-Lift Link
16	126-0564	1	Guard-Foot	34	3220-3	4	Nut-Jam 3/8-24
16:2	116-9884	1	Foot-Shield	35	5-0652	2	Spacer
16:3	3269-20	12	Rivet-Pop	36	32151-29	2	Ring-Retaining
17	3290-357	4	Nut-Whizlock 3/8-16				

Tine Wheel Drive Assembly



Tine Wheel Drive 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	104-8300	10	Nut-Flange, NI	13:2	32148-7	6	Nut-Insert
2	104-8301	38	Nut-Flange, NI	14	126-1206	1	LH Chain Guard ASM
3	105-9714	4	Flange-Bearing	14:2	32148-7	6	Nut-Insert
4	106-7126	2	Bearing-Flange	15	322-4	6	Screw-HH
4:1	302-58	1	Fitting-Straight	16	323-8	36	Screw-HH
4:2	3245-35	2	Screw-Set, HSH	17	3230-1	4	Bolt-CARR
6	120-9350	2	Bearing-Lock, Collar	18	121-6107	2	Chain-Drive
7	126-2143	36	Tine-Coring (3/4 Inch)	19	302-19	2	Fitting-Grease
8	116-9896	2	Sprocket-#40 22T	20	3234-47	12	Screw-HHF
9	121-4930	1	Wheel-Tine, LH	21	32120-93	2	Ring-Retaining
10	121-6072	1	Wheel-Tine, RH	22	108519	4	Bushing-Bronze
11	121-6099	1	Tine-Spyder	23	3234-19	2	Screw-HHF
12	121-6096	1	Tine-Spyder	25	69-8930	6	Washer
13	126-1204	1	RH Chain Guard ASM				

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.

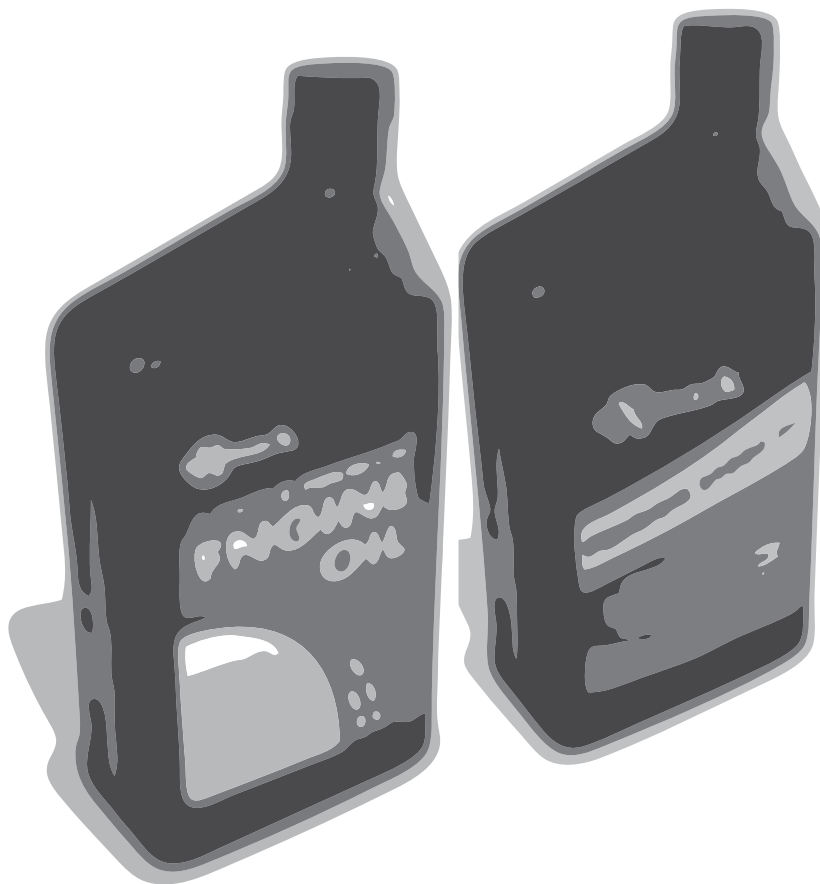
PREMIUM HYDRO OIL

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.



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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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