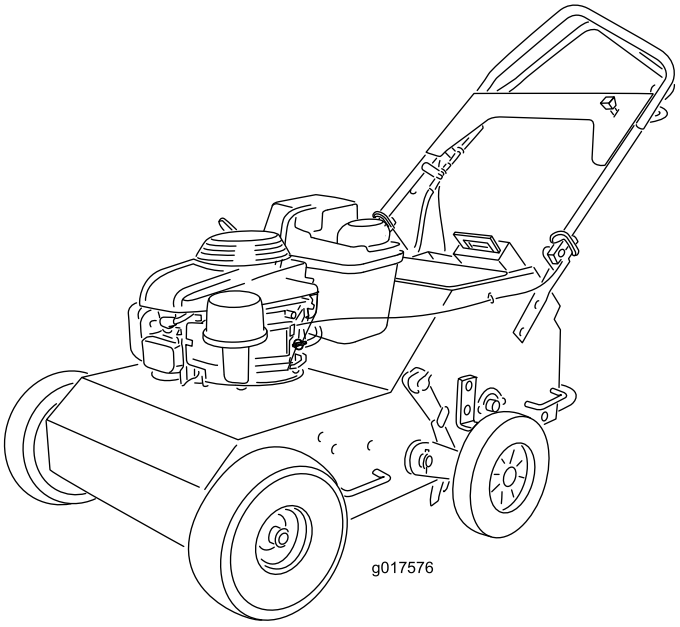
Parts Manual

21IN WALK-BEHIND AERATOR

Model No. ARS180KA21—Serial No. 312000000 and Up

Picture below may not reflect actual product.



Part No. 4501-210 Rev. B

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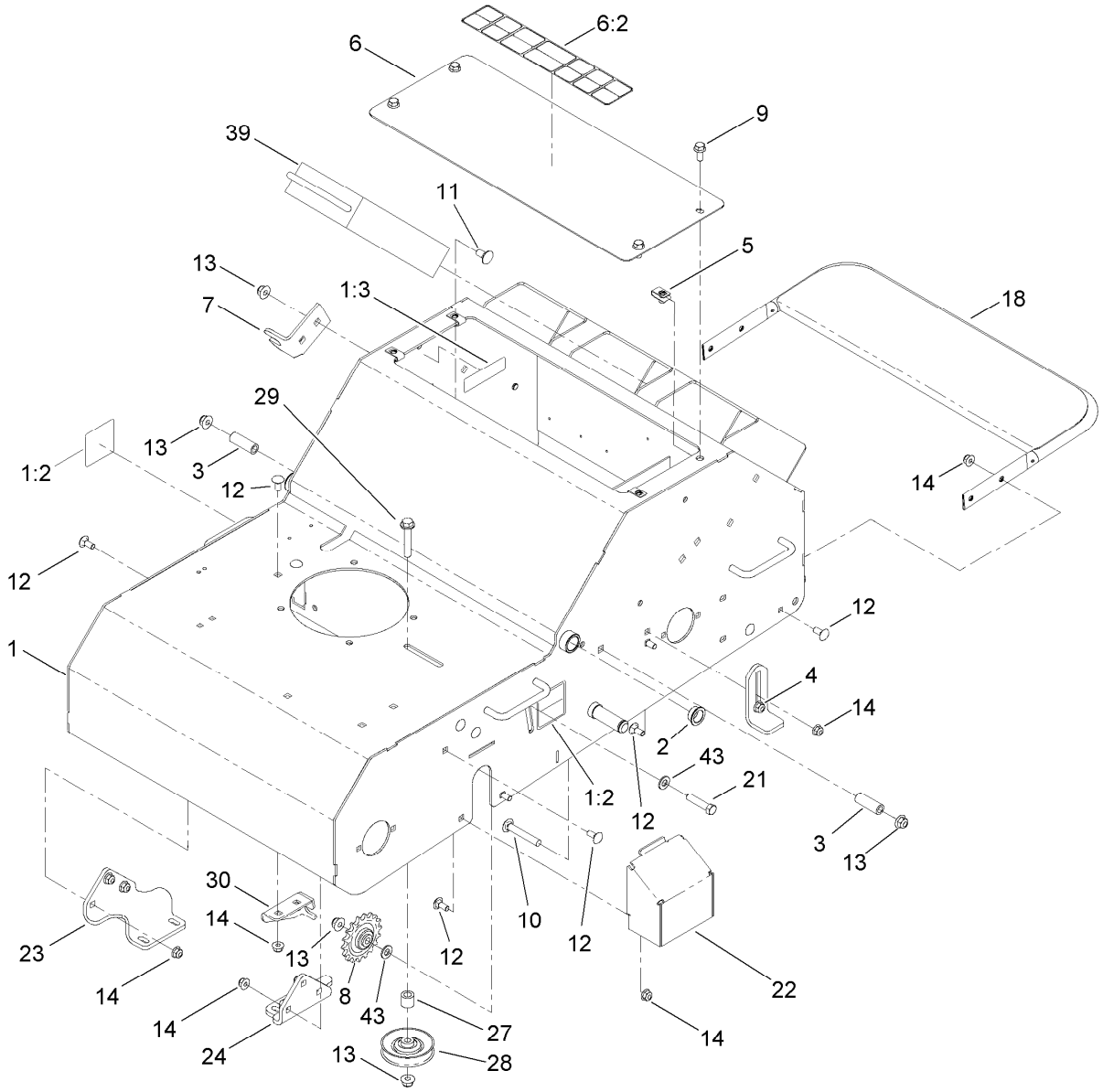
Contact us at www.Exmark.com.
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If your Exmark dealer does not have the Exmark part in stock, Exmark will get the parts to the dealer the next business day or the part will be FREE Guaranteed!! (Some restrictions apply. See your participating Exmark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

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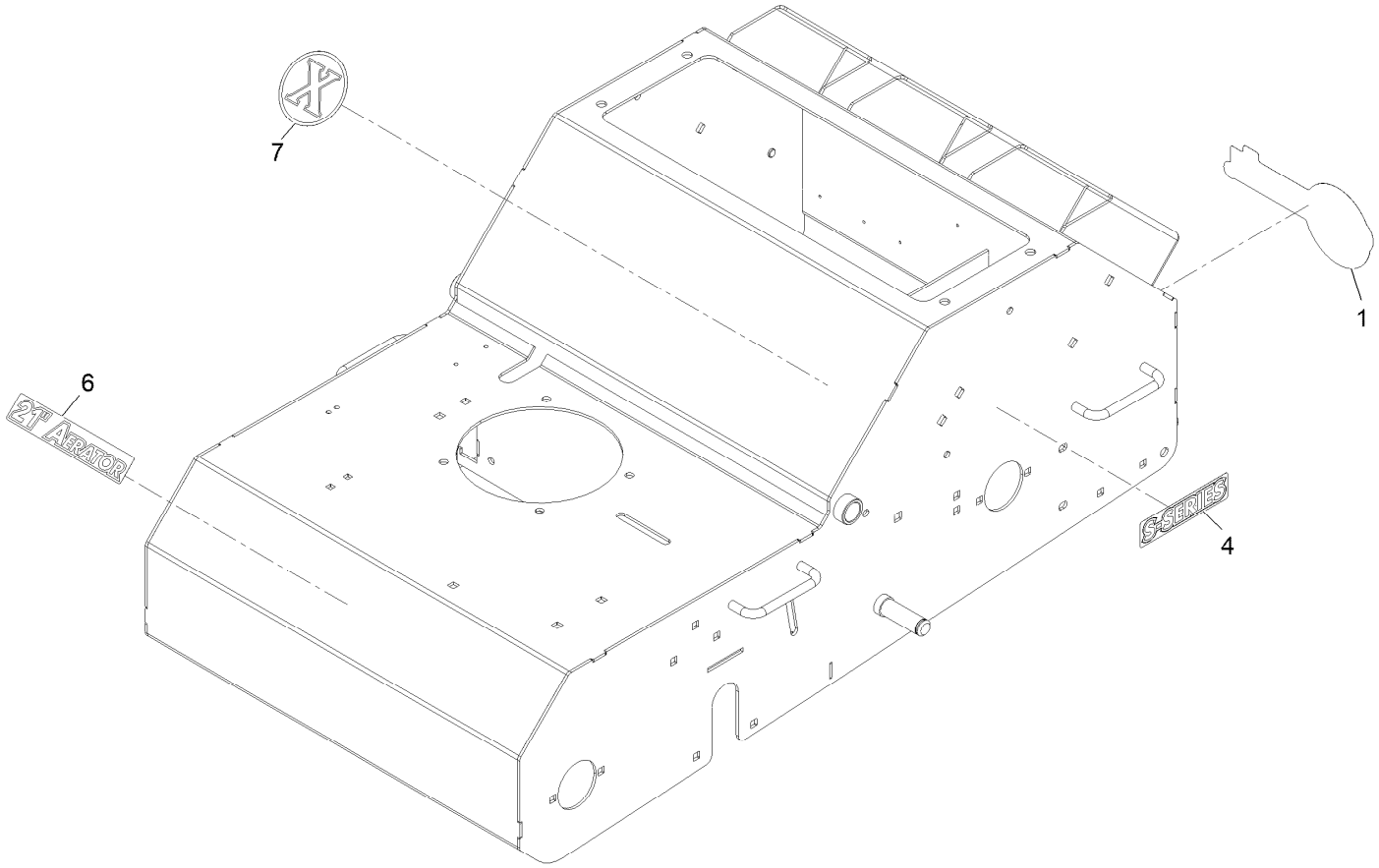
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Tine Assembly 10



Frame Assembly

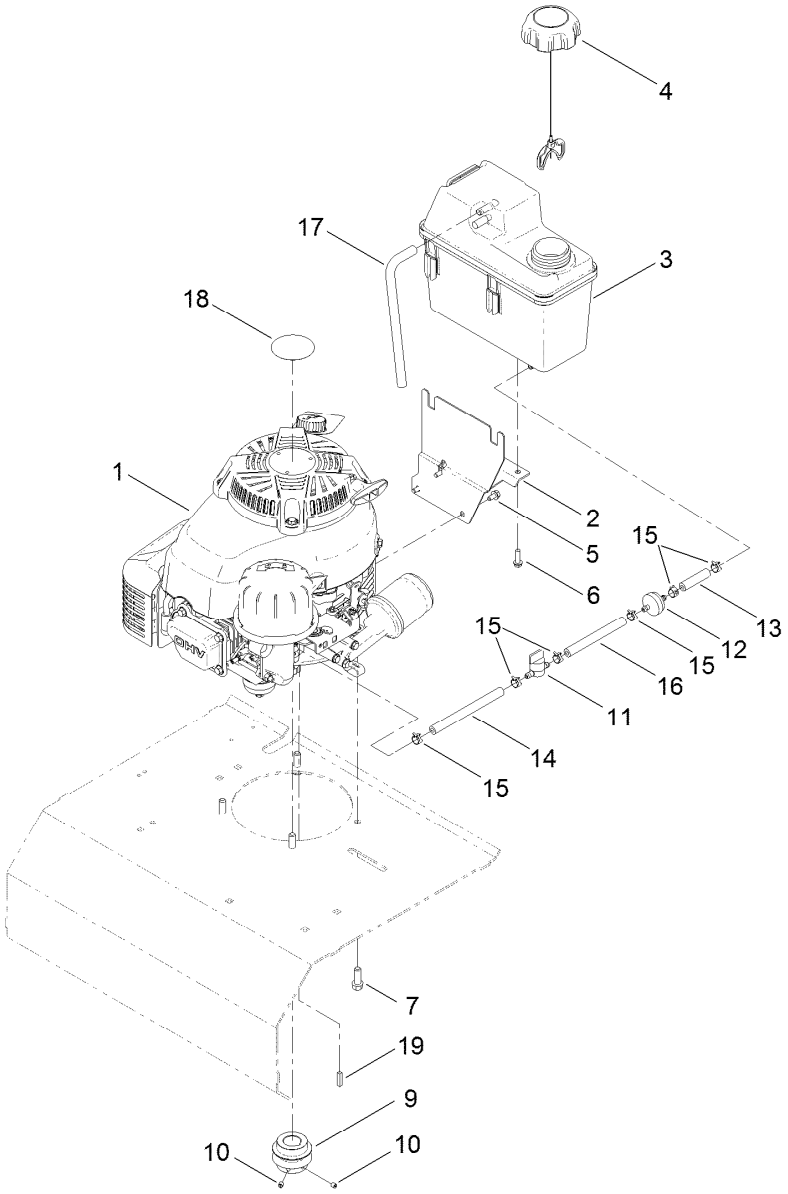
Ref.	Part Number	Qty.	Description
1	121-6194	1	Frame ASM
1:2	121-6150	2	Decal-Warning
1:3	119-0217	1	Decal-Danger
2	108519	2	Bushing-Bronze
3	95-6448	2	Spacer
4	121-4871	2	Stop-Depth
5	115-7721	4	Nut-Clip, U
6	121-6195	1	Cover ASM
6:2	121-2009	1	Decal-Warning, Aerator
7	121-4880	1	Bracket-Mount, Cable
8	121-4915	2	Sprocket-Idler
9	3234-47	4	Screw-HH Flg 5/16-18 X 3/4
10	3231-44	2	Bolt-Carriage 3/8-16 X 2 1/2
11	3231-1	2	Bolt-Carriage 3/8-16 X 3/4

Ref.	Part Number	Qty.	Description
12	3230-1	20	Bolt-Carriage 5/16-18 X 3/4
13	104-8301	7	Nut-Nyloc 3/8-16 Flg
14	104-8300	20	Nut-Nyloc 5/16-18 Flg
18	121-2034-03	1	Guard
21	323-9	2	Screw-HH 3/8-16 X 1 3/4
22	121-1981-01	2	Cover-Transaxle
23	121-4948-03	1	Bracket-Mount Axle, RH
24	121-4949-03	1	Bracket-Mount Axle, LH
27	121-6087	1	Bushing-Idler
28	62-4530	1	Pulley
29	323-11	1	Screw-HH 3/8-16 X 2 1/4
30	121-6056	1	Bracket-Mounting, Cable
39	121-6080	1	Weight-Aerator
43	3256-24	5	Washer-3/8 Sae



Frame Assembly W/Decals

Ref.	*Part Number*	*Qty.*	*Description*
1	103-2882	1	Decal,Exmark Logo
4	116-3884	2	Decal-S-Series
6	116-6953	1	Decal-Aerator 21
7	116-7035	1	Decal-Exmark X-Logo



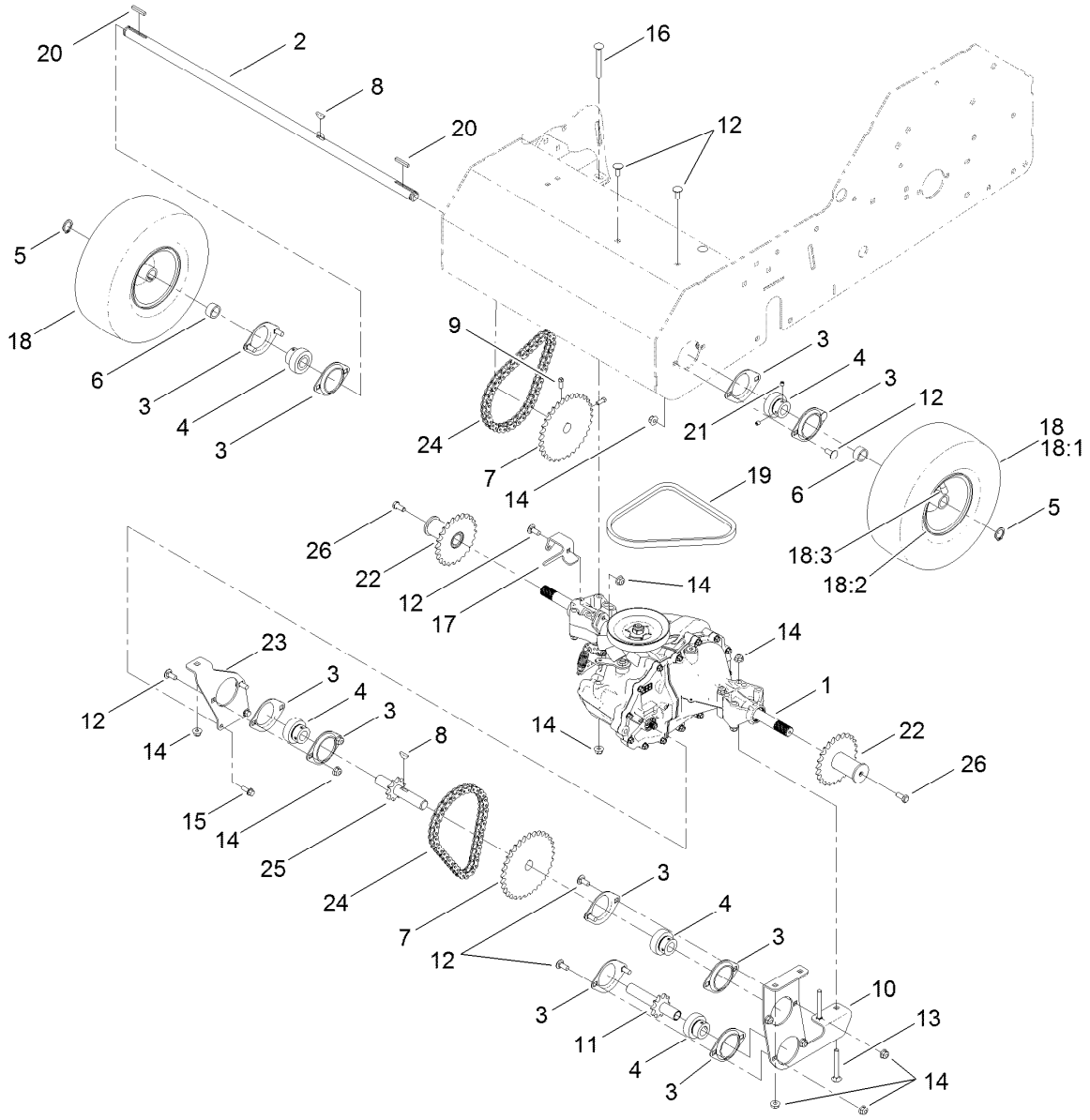
Engine and Fuel Tank Assembly

Ref.	Part Number	Qty.	Description
1		1	Engine-Kawasaki, Fj180V-Bm02-M ●■
2	115-0954-03	1	Tank Mount ASM
3	125-5066	1	Tank ASM
4	109-6776	1	Cap-Ratchet, Tethered
5	104-2628	3	Screw-HWH M6-1 X 12Mm Tf
6	46-8091	2	Screw-HWH 1/4-10 X .82 Plastite
7	95-1726	4	Screw-HWH 3/8-16 X 1 Taptite
9	121-2038	1	Pulley-Driver
10	3245-35	2	Screw-Set HSH 1/4-28 X 1/4 ▲
11	1-603770	1	Valve-Fuel
12	71-9280	1	Filter-Fuel
13	99-9415	1	Hose-Fuel
14	109-0300	1	Hose-Fuel
15	2412-98	6	Clamp-Hose
16	109-0650	1	Hose-Fuel
17	115-0962	1	Hose-Vent, Canister
18	109-6528	1	Decal
19	6366	1	Key-3/16 X 3/16 X 7/8

● Not serviced separately

■ Obtain parts from www.kawpowerepc.com

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

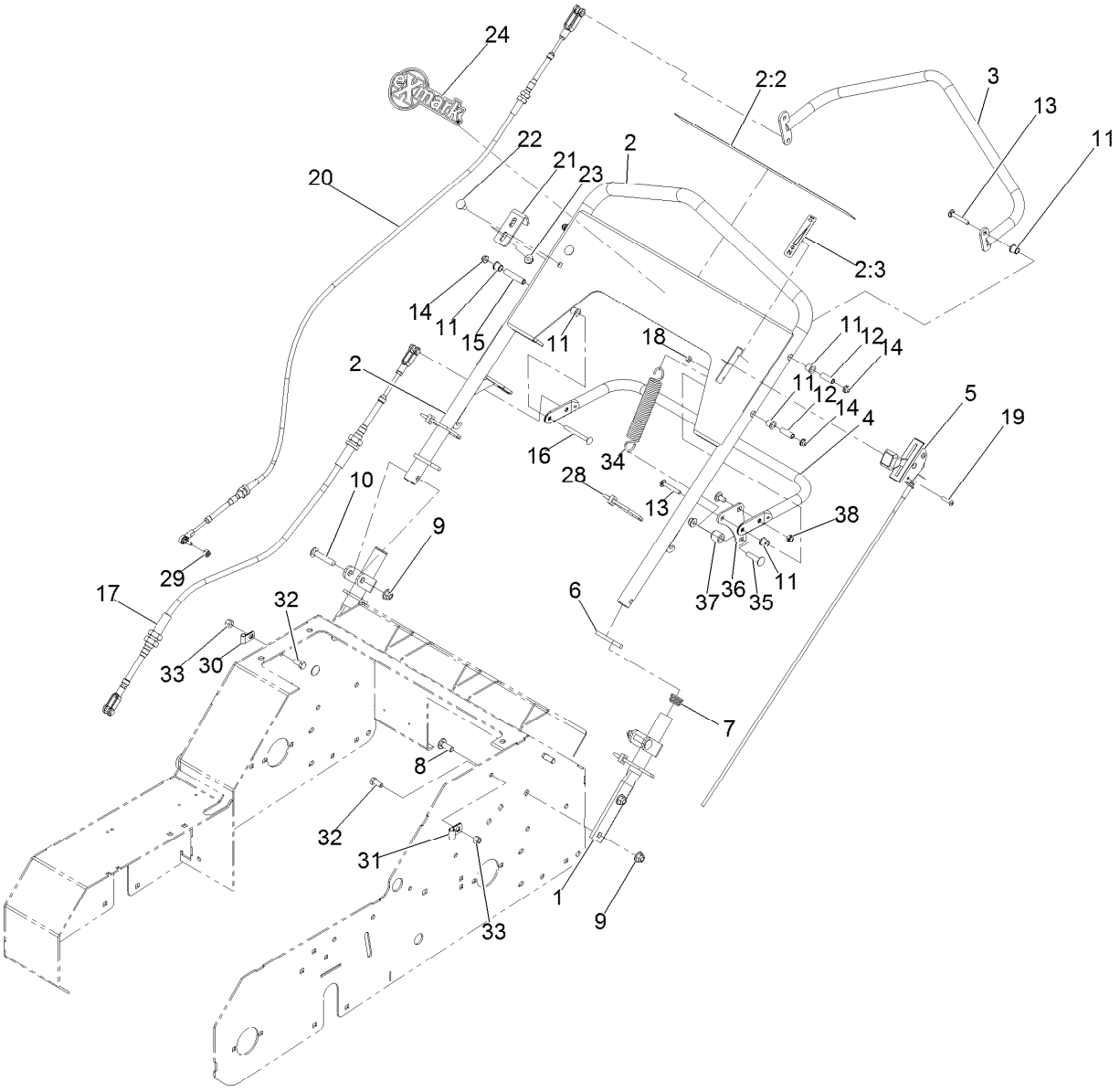


Drive Assembly

Ref.	Part Number	Qty.	Description
1	121-4899	1	Transaxle ASM
2	121-4927	1	Shaft-Wheel
3	105-9714	10	Flange-Bearing
4	120-9350	5	Bearing-Lock, Collar
5	32120-93	2	Ring-Retaining
6	121-4931	2	Spacer-Wheel
7	121-4934	2	Sprocket
8	3257-5	2	Key-Woodruff #9 3/4 X 3/16
9	3241-5	4	Setscrew-SQH 1/4-20 X 5/8 ●
10	121-4936-03	1	Plate-Bearing
11	121-4937	1	Shaft-Output
12	3230-23	14	Bolt-Carriage 5/16-18 X 3/4 Short Neck
13	3230-8	2	Bolt-Carriage 5/16-18 X 2 1/2
14	104-8300	20	Nut-Nyloc 5/16-18 Flg
15	3234-4	2	Screw-HH Flg 1/4-20 X 3/4

Ref.	Part Number	Qty.	Description
16	3230-9	4	Bolt-Carriage 5/16-18 X 2 3/4
17	121-6067	1	Angle-Control
18	120-3550	2	Wheel ASM
18:1	121-6081	1	Tire
18:2	121-6082	1	Wheel-Rim
18:3	5108	1	Valve
19	121-1999	1	Belt-Drive
20	92-0049	2	Key-Machine 3/16 X 3/16 X 1 1/4
21	3245-35	10	Screw-Set HSH 1/4-28 X 1/4 ●
22	121-1976	2	Sprocket ASM
23	121-4932-03	1	Bracket-Support, Shaft
24	121-6105	2	Chain-Drive Wheel #40
25	121-6108	1	Shaft-Jack
26	3235-6	2	Screw-HH 5/16-24 X 3/4 ●

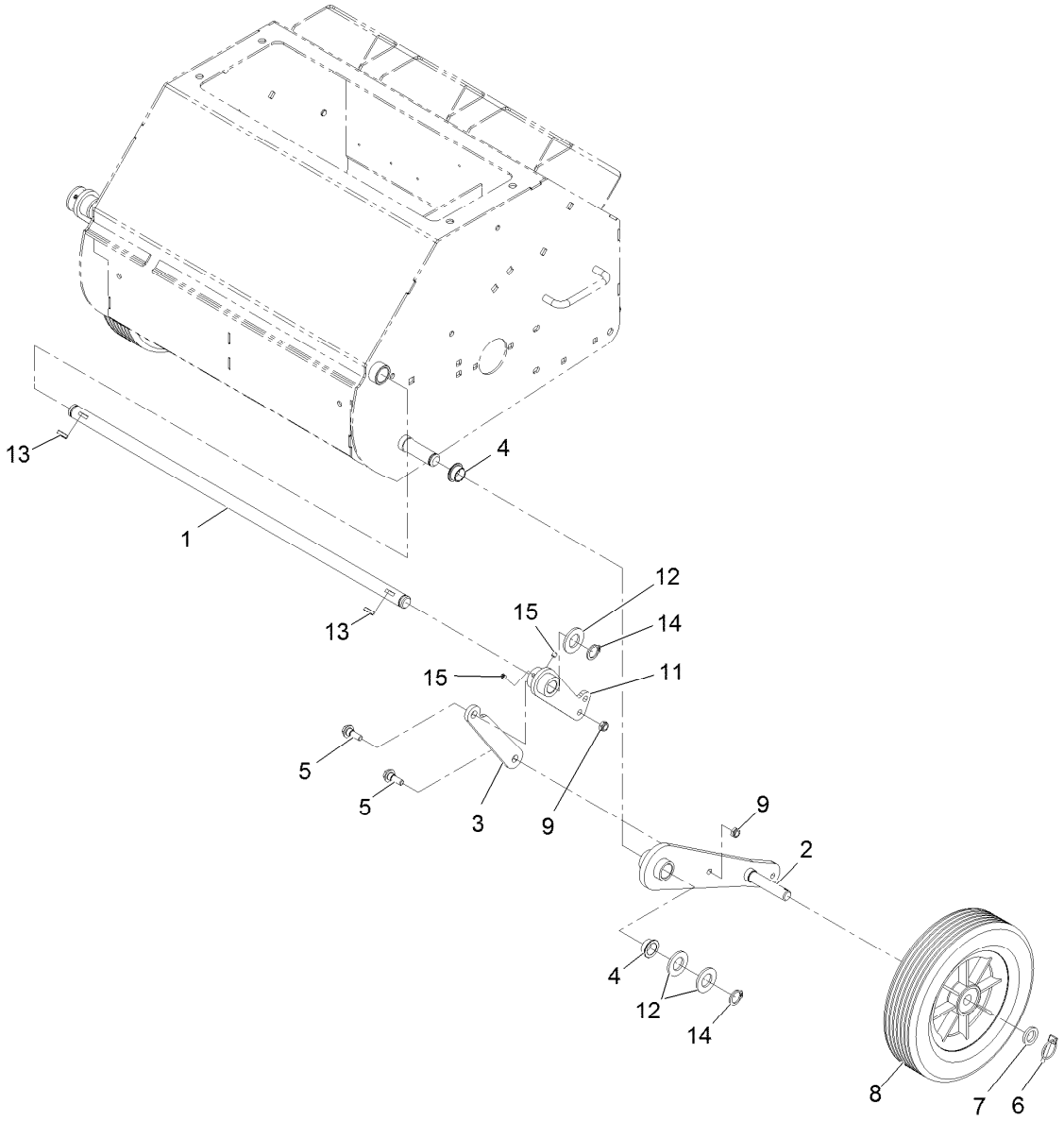
● Use Pro-Lock, Nut Type (P/N 1-840022, .5ml tube) on threads.



Handle Assembly

Ref.	Part Number	Qty.	Description
1	121-4866-03	2	Mount-Handle
2	121-6199	1	Handle ASM
2:2	116-8699	1	Decal-Aerator Control Panel
2:3	121-6151	1	Decal-Throttle, Choke
3	121-6053-03	1	Tube-Control
4	121-6058-03	1	Tube-Lift, Handle
5	103-6123	1	Control-Throttle
6	121-4869	2	Ring-Lock, Handle
7	121-4870	2	Plug
8	3231-22	4	Bolt-Carriage 3/8-16 X 1
9	104-8301	6	Nut-Nyloc 3/8-16 Flg
10	3231-6	2	Bolt-Carriage 3/8-16 X 2
11	103-9928	8	Bearing
12	121-6060	3	Bushing-Pivot
13	3229-5	3	Screw-CARR
14	104-7201	4	Nut-Nyloc 1/4-20 Flg
15	121-6062	1	Bushing-Pivot
16	3229-8	1	Bolt-Carriage 1/4-20 X 2 1/2
17	121-4904	1	Cable

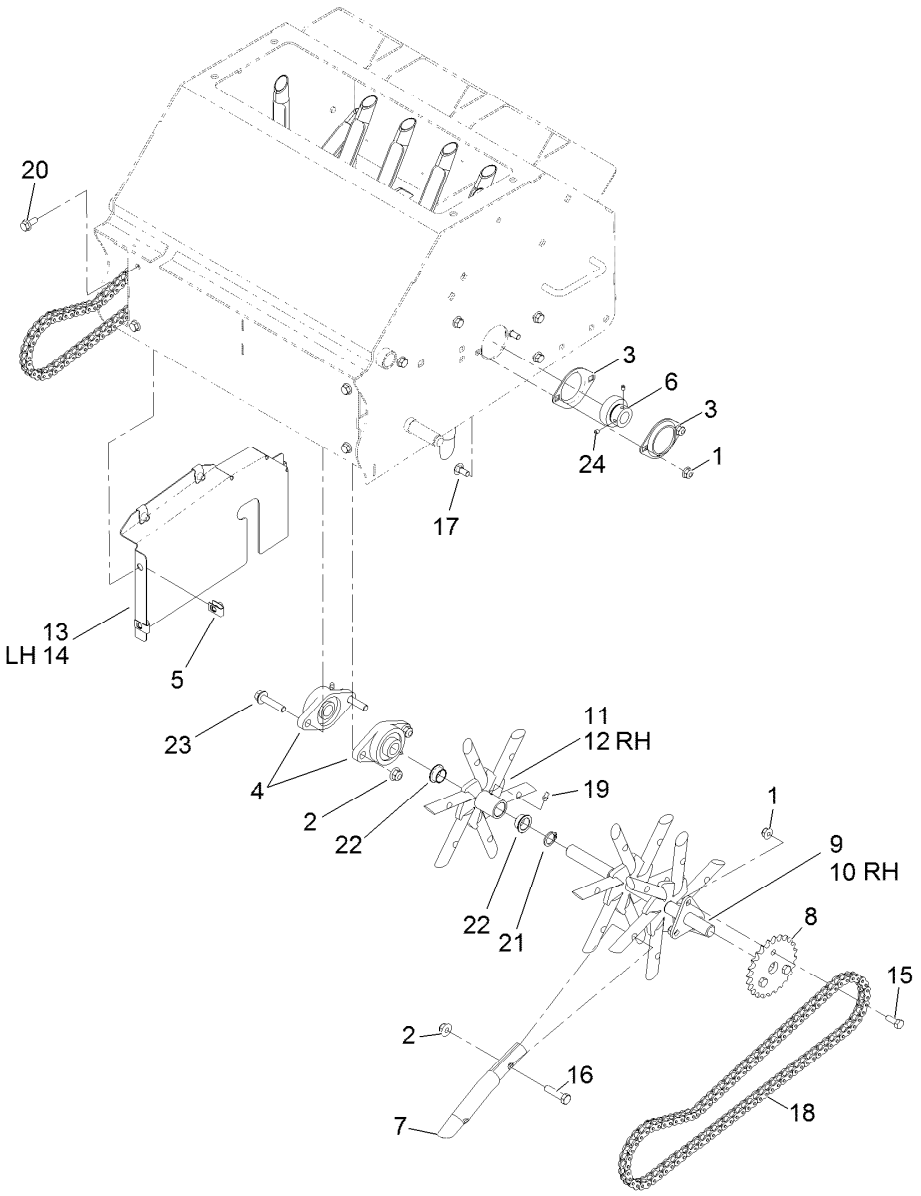
Ref.	Part Number	Qty.	Description
18	3296-2	3	Nut-Nyloc #10-24
19	3250-27	2	Screw-PPH #10-24 X 7/8
20	121-6068	1	Cable
21	121-6057	1	Angle-Stop
22	3230-18	2	Bolt-Carriage 5/16-18 X 5/8
23	104-8300	2	Nut-Nyloc 5/16-18 Flg
24	1-643103	1	Decal,Exmark Logo
28	3290-378	2	Tie-Cable
29	3296-3	1	Nut-Nyloc 1/4-28
30	98-2390	1	Clamp-R
31	2412-113	1	Clamp
32	322-3	2	Screw-HH 5/16-18 X 3/4
33	3296-29	2	Nut-Nyloc 5/16-18
34	106-2177	1	Spring-Extension
35	112-6950	1	Bolt-Carriage 5/16-18 X 1 3/8 Short Neck
36	116-8650	1	Bracket-Spring
37	116-8652	1	Spacer-Stepped
38	3296-47	1	Nut-Nyloc 5/16-18 Thin



Height Linkage Assembly

Ref.	*Part Number*	*Qty.*	*Description*
1	121-4873	1	Shaft-Pivot
2	121-4886-03	2	Arm-Wheel
3	121-6212-03	2	Link-Connecting
4	108519	4	Bushing-Bronze
5	116-2670	4	Screw-Shoulder HHF 5/16-18 X .96
6	3290-495	2	Pin-Klik
7	63-9710	2	Spacer-Bearing
8	121-4897	2	Wheel-Transport
9	3296-47	4	Nut-Nyloc 5/16-18 Thin
11	121-6213-03	2	Arm-Lift
12	3256-28	6	Washer-3/4 Sae
13	3257-5	2	Key-Woodruff #9 3/4 X 3/16
14	32120-93	4	Ring-Retaining
15	108-0989	4	Setscrew-1/4-20 X 1/4 ●

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



Tine Assembly

Ref.	Part Number	Qty.	Description
1	104-8300	10	Nut-Nyloc 5/16-18 Flg
2	104-8301	38	Nut-Nyloc 3/8-16 Flg
3	105-9714	4	Flange-Bearing
4	106-7126	2	Bearing-Flange
5	115-7721	12	Nut-Clip, U
6	120-9350	2	Bearing-Lock, Collar
7	121-4894	36	Tine-Coring
8	121-4900	2	Sprocket
9	121-4930-01	1	Tine-Wheel, LH
10	121-6072-01	1	Tine-Wheel, RH
11	121-6099-01	1	Spyder Tine ASM
12	121-6096-01	1	Spyder Tine ASM
13	121-6077-01	1	Guard-Chain, RH
14	121-6078-01	1	Guard-Chain, LH
15	322-4	6	Screw-HH 5/16-18 X 7/8
16	323-8	38	Screw-HH 3/8-16 X 1 1/2
17	3230-1	4	Bolt-Carriage 5/16-18 X 3/4
18	121-6107	2	Chain-Drive
19	302-19	2	Zerk-1/4-28 Str
20	3234-47	12	Screw-HH Flg 5/16-18 X 3/4
21	32120-93	2	Ring-Retaining
22	108519	4	Bushing-Bronze
23	3234-19	2	Screw-HHF 3/8-16 X 1 3/4
24	3245-35	4	Screw-Set HSH 1/4-28 X 1/4 ●

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

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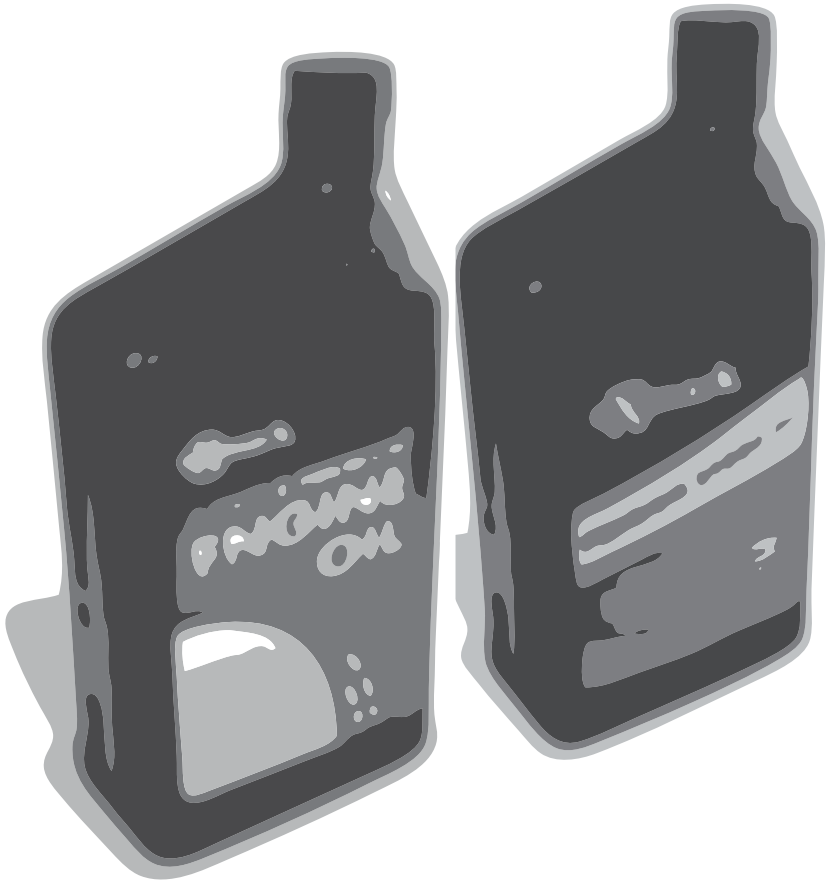
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Serial No. _____

Date Purchased _____

Engine Model No. and Spec. No. _____

Engine Serial No. (E/No) _____

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