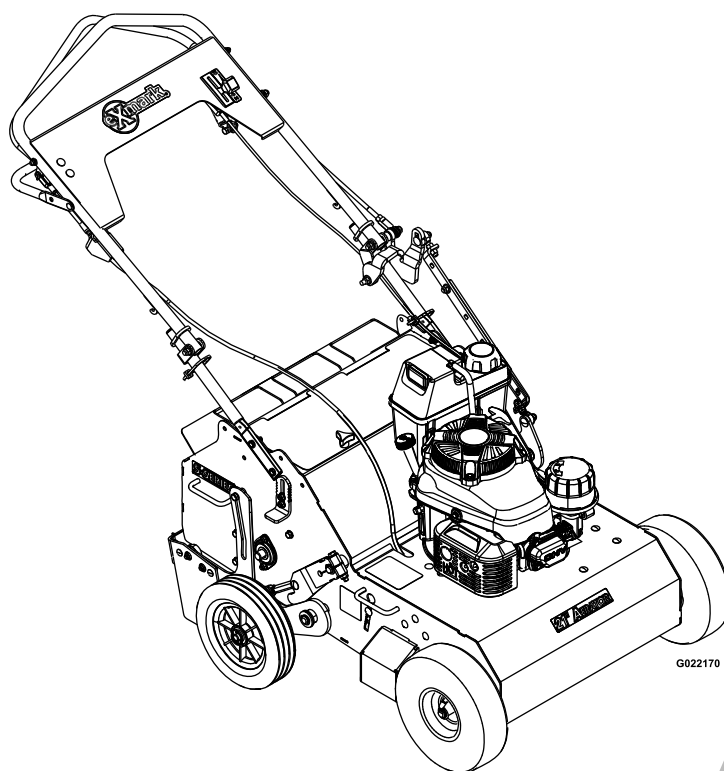




21 INCH WALK-BEHIND AERATOR

Model No. ARS180KA21—Serial No. 314000000 and Up

Picture below may not reflect actual product.



Parts Manual

Part No. 4501-688 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	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.

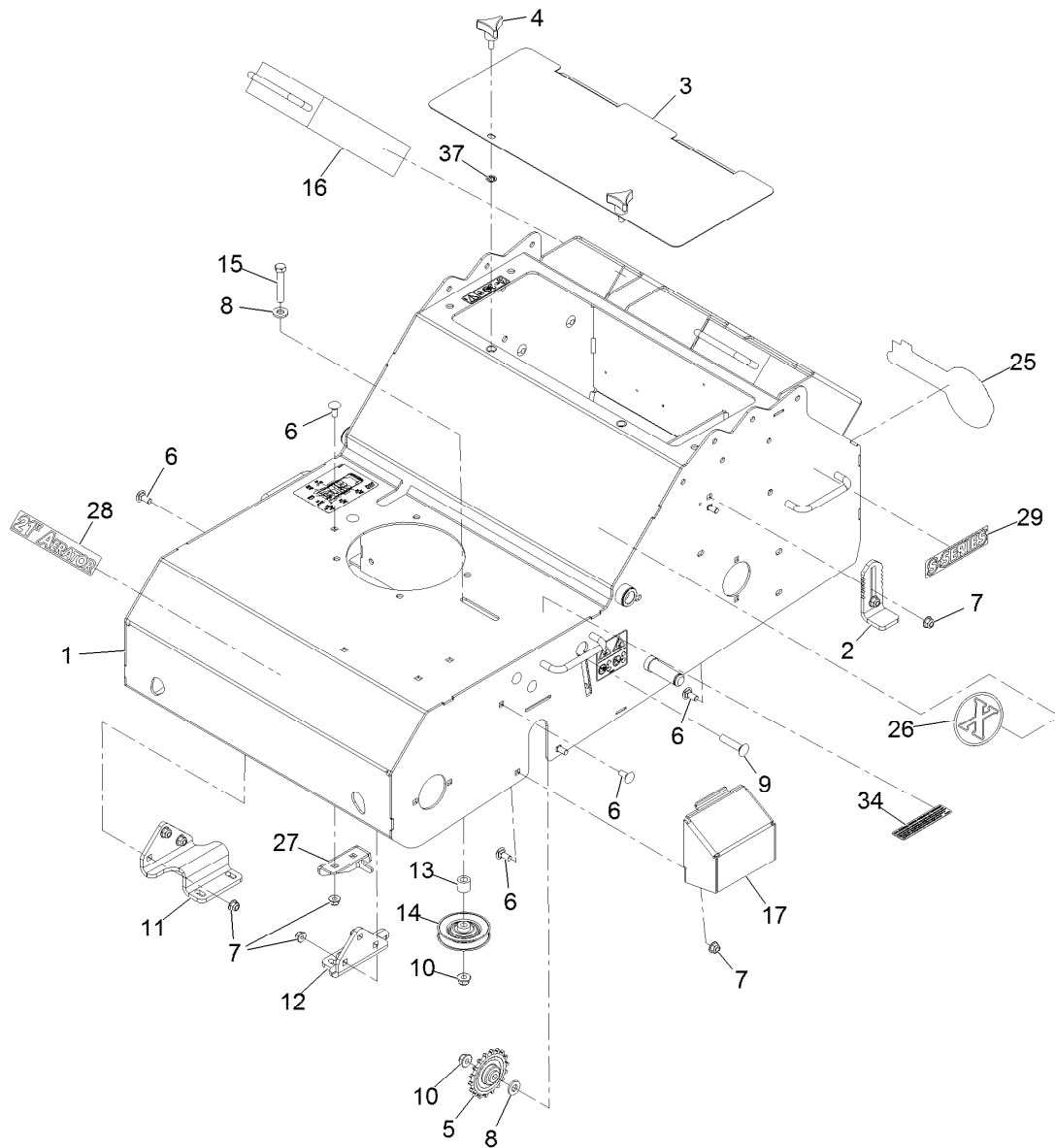
Exmark red touch up paint (spray paint – P/N 1-850337 - .6 oz liquid bottle – P/N 103-9140).



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.)

Contents

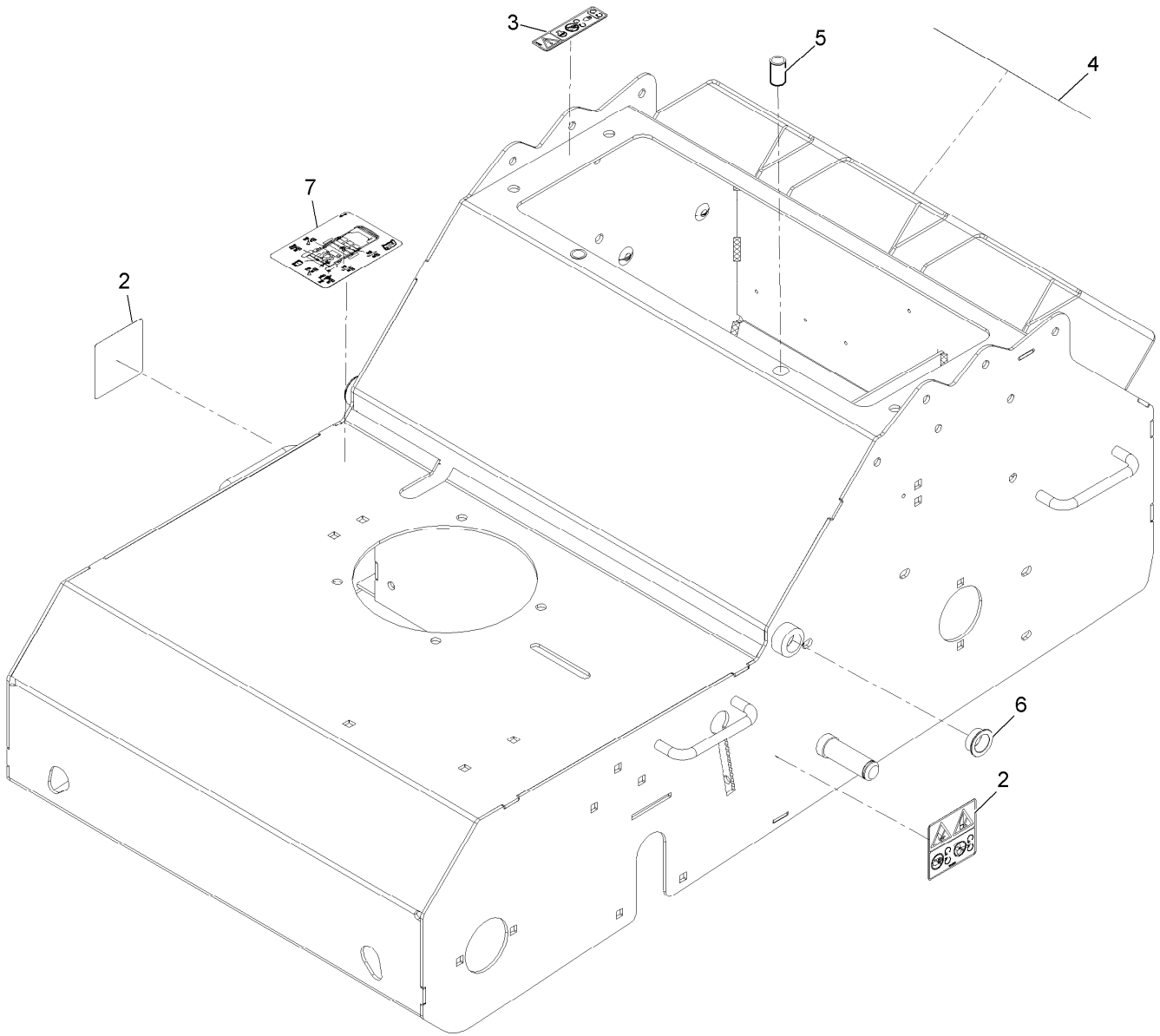
Frame Assembly.....	4
Frame Assembly W/Decals	5
Engine and Fuel Tank Assembly	6
Drive Assembly.....	7
Handle Assembly	8
Height Linkage Assembly	9
Tine Assembly	10



Frame Assembly

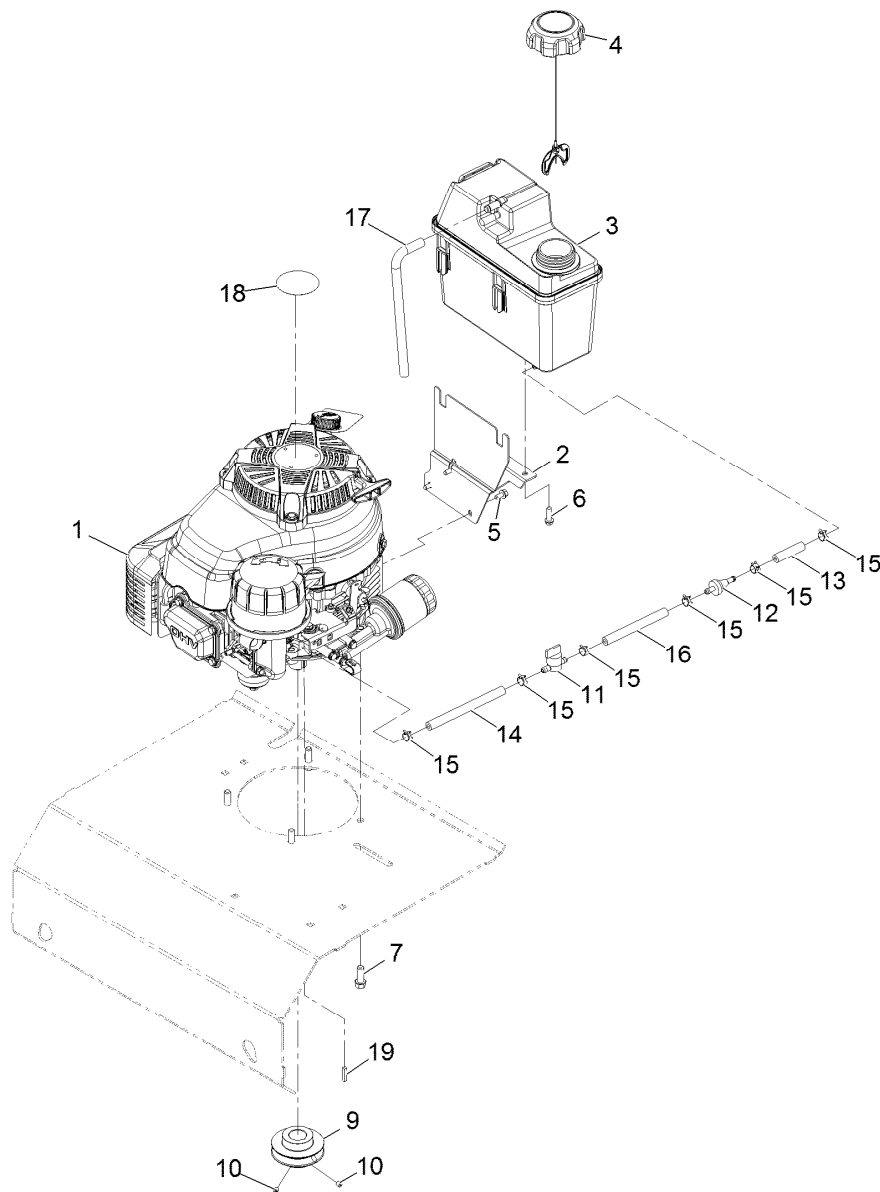
Ref.	Part Number	Qty.	Description
1	116-9867	1	Frame ASM
2	116-9886	2	Stop-Depth
3	126-0974-01	1	Cover-Access
4	109-3351	2	Knob-5/16X3/4 3-Prong
5	121-4915	2	Sprocket-Idler
6	3230-1	16	Bolt-Carriage 5/16-18 X 3/4
7	104-8300	16	Nut-Nyloc 5/16-18 Flg
8	87-7480	3	Washer
9	3231-29	2	Bolt-Carriage 3/8-16 X 1 3/4
10	104-8301	3	Nut-Nyloc 3/8-16 Flg
11	121-4948-03	1	Bracket-Mount Axle, RH
12	121-4949-03	1	Bracket-Mount Axle, LH
13	121-6087	1	Bushing-Idler

Ref.	Part Number	Qty.	Description
14	62-4530	1	Pulley
15	323-11	1	Screw-HH 3/8-16 X 2 1/4
16	121-6080	2	Weight-Aerator
17	121-1981-01	2	Cover-Transaxle
25	103-3999	1	Decal, Exmark Logo (Console)
26	116-7035	1	Decal-Exmark X-Logo
27	121-6056	1	Bracket-Mounting, Cable
28	116-6953	1	Decal-Aerator 21
29	116-3884	2	Decal-S-Series
34	117-2718	1	Decal-Arrester, Spark
37	117-2749	2	Nut-Push



Frame Assembly W/Decals

Ref.	Part Number	Qty.	Description
2	121-6150	2	Decal-Warning
3	119-0217	1	Decal-Danger
4	126-0651	1	Decal-Warning
5	32148-7	2	Nut-Insert
6	108519	2	Bushing-Bronze
7	126-1209	1	Decal-Service Aid



Engine and Fuel Tank Assembly

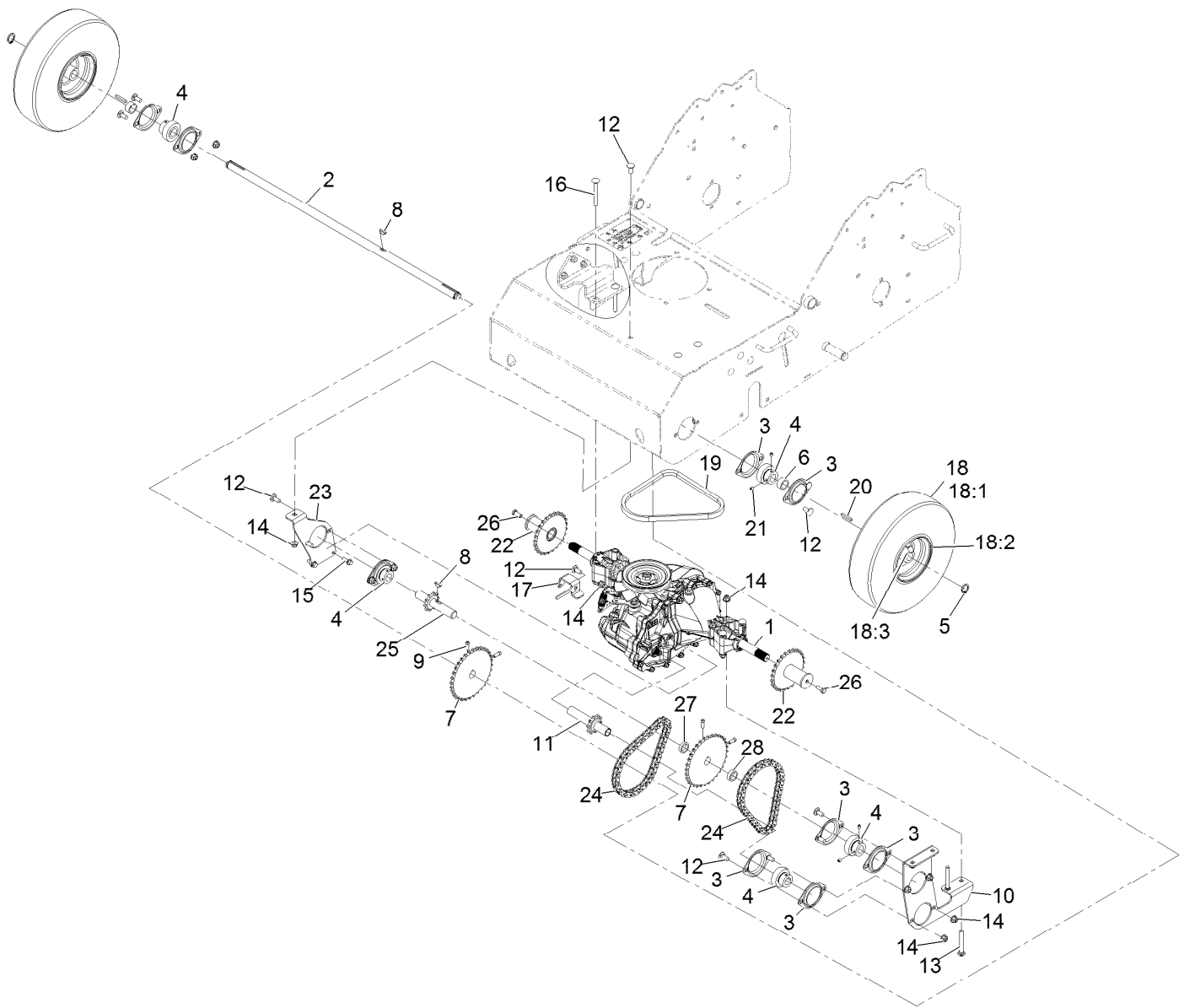
Ref.	Part Number	Qty.	Description
1		1	Engine-Kawasaki, Fj180V-Bm02-M ●■
2	115-0954-03	1	Tank Mount ASM
3	125-5066	1	Tank ASM
4	109-6776	1	Cap-Ratchet, Tethered
5	104-2628	3	Screw-HWH M6-1 X 12Mm Tf
6	46-8091	2	Screw-HWH 1/4-10 X .82 Plastite
7	95-1726	4	Screw-HWH 3/8-16 X 1 Taptite
9	126-0839	1	Pulley-Driver

Ref.	Part Number	Qty.	Description
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-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.

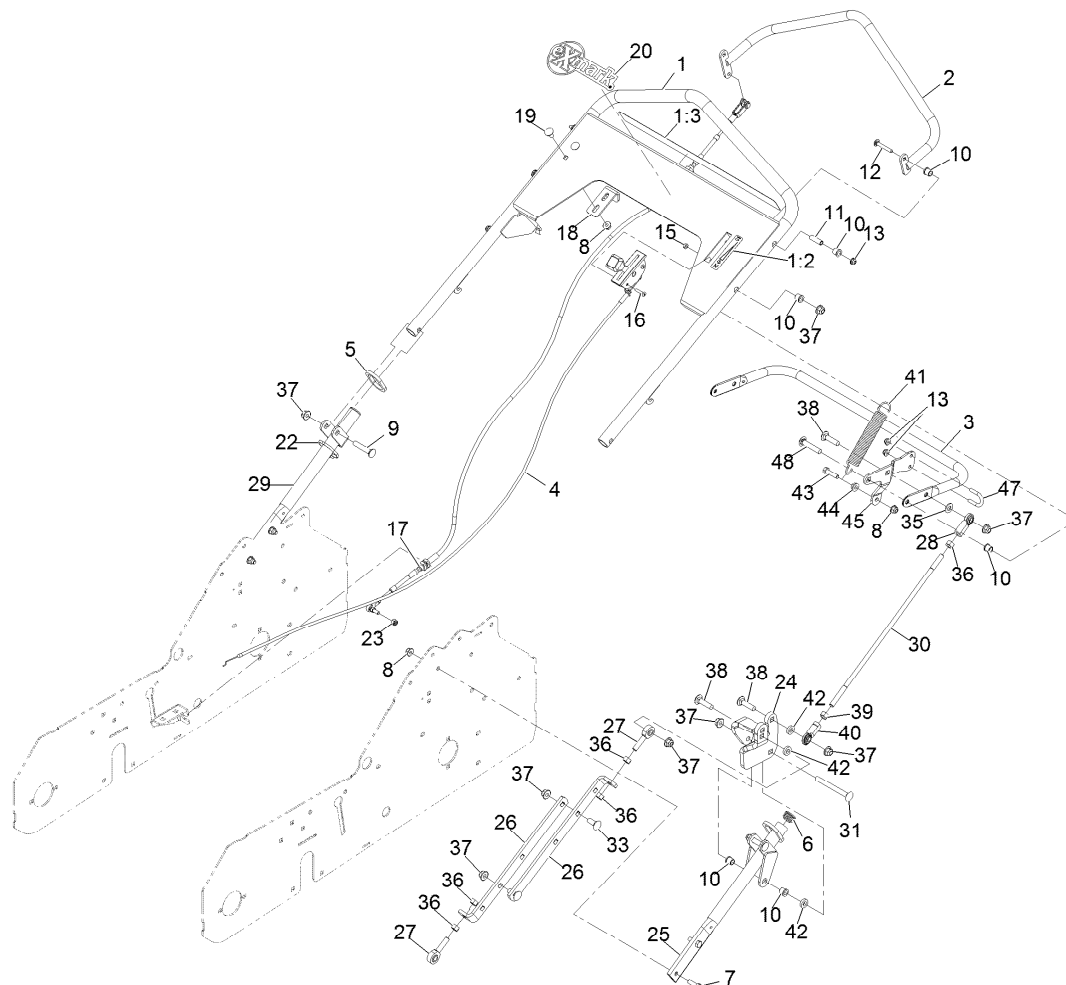
■ Obtain parts from www.kawpowerepc.com



Drive Assembly

Ref.	Part Number	Qty.	Description	Ref.	Part Number	Qty.	Description
1	121-4899	1	Transaxle ASM	16	3230-9	4	Bolt-Carriage 5/16-18 X 2 3/4
2	121-4927	1	Shaft-Wheel	17	121-6067	1	Angle-Control
3	105-9714	10	Flange-Bearing	18	120-3550	2	Wheel ASM
4	120-9350	5	Bearing-Lock, Collar	18:1	121-6081	1	Tire
5	32120-93	2	Ring-Retaining	18:2	121-6082	1	Wheel-Rim
6	121-4931	2	Spacer-Wheel	18:3	5108	1	Valve
7	121-4934	2	Sprocket	19	121-1999	1	Belt-Drive
8	3257-5	2	Key-Woodruff #9 3/4 X 3/16	20	92-0049	2	Key-Machine 3/16 X 3/16 X 1 1/4
9	3241-5	4	Setscrew-SQH 1/4-20 X 5/8	21	3245-35	10	Screw-Set HSH 1/4-28 X 1/4
10	121-4936-03	1	Plate-Bearing	22	116-9860	2	Sprocket ASM
11	121-4937	1	Shaft-Output	23	121-4932-03	1	Bracket-Support, Shaft
12	3230-23	14	Bolt-Carriage 5/16-18 X 3/4 Short Neck	24	121-6105	2	Chain-Drive Wheel #40
13	3230-8	2	Bolt-Carriage 5/16-18 X 2 1/2	25	121-6108	1	Shaft-Jack
14	104-8300	20	Nut-Nyloc 5/16-18 Flg	26	3235-6	2	Screw-HH 5/16-24 X 3/4
15	3234-4	2	Screw-HH Flg 1/4-20 X 3/4	27	105-3828	1	Spacer
				28	94-9524	1	Spacer-Control

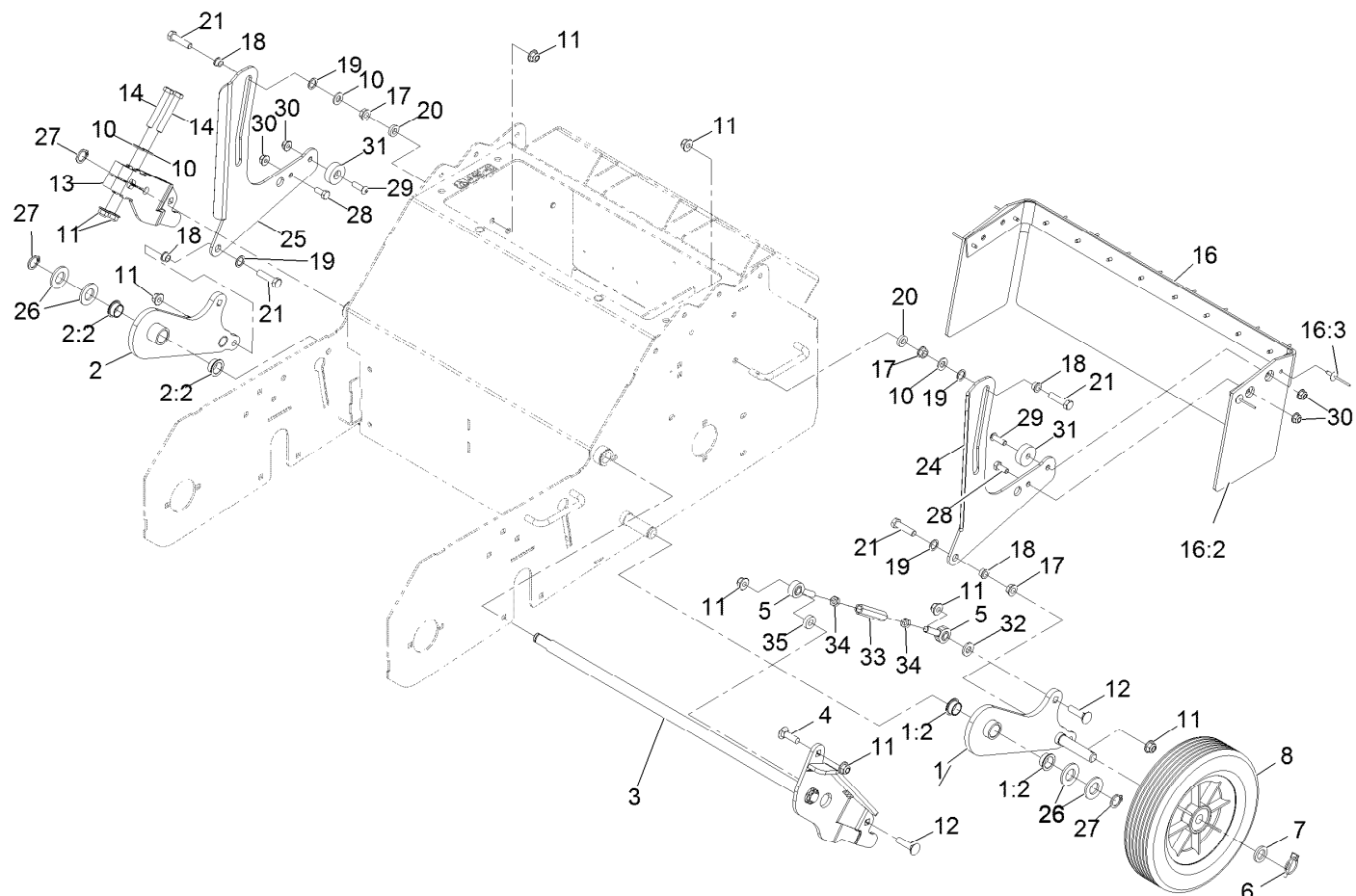
● Use Pro-Lock, Nut Type (P/N 1-840022, .5ml tube) on threads.



Handle Assembly

Ref.	Part Number	Qty.	Description
1	126-0639	1	Handle ASM
1:2	121-6151	1	Decal-Throttle, Choke
1:3	116-8699	1	Decal-Aerator Control Panel
2	121-6053-03	1	Tube-Control
3	116-9873-03	1	Tube-Handle Lift
4	116-9898	1	Control-Throttle
5	121-6202	2	Ring-Handle Lock
6	121-4870	2	Plug
7	322-5	4	Screw-HH 5/16-18 X 1
8	104-8300	7	Nut-Nyloc 5/16-18 Flg
9	3231-6	2	Bolt-Carriage 3/8-16 X 2
10	103-9928	10	Bearing
11	121-6060	3	Bushing-Pivot
12	3229-5	3	Screw-CARR
13	104-7201	5	Nut-Nyloc 1/4-20 Flg
15	3296-2	2	Nut-Nyloc #10-24
16	3250-27	2	Screw-PPH #10-24 X 7/8
17	121-6068	1	Cable
18	121-6057	1	Angle-Stop
19	3230-18	2	Bolt-Carriage 5/16-18 X 5/8
20	103-3999	1	Decal, Exmark Logo (Console)
22	3290-378	1	Tie-Cable

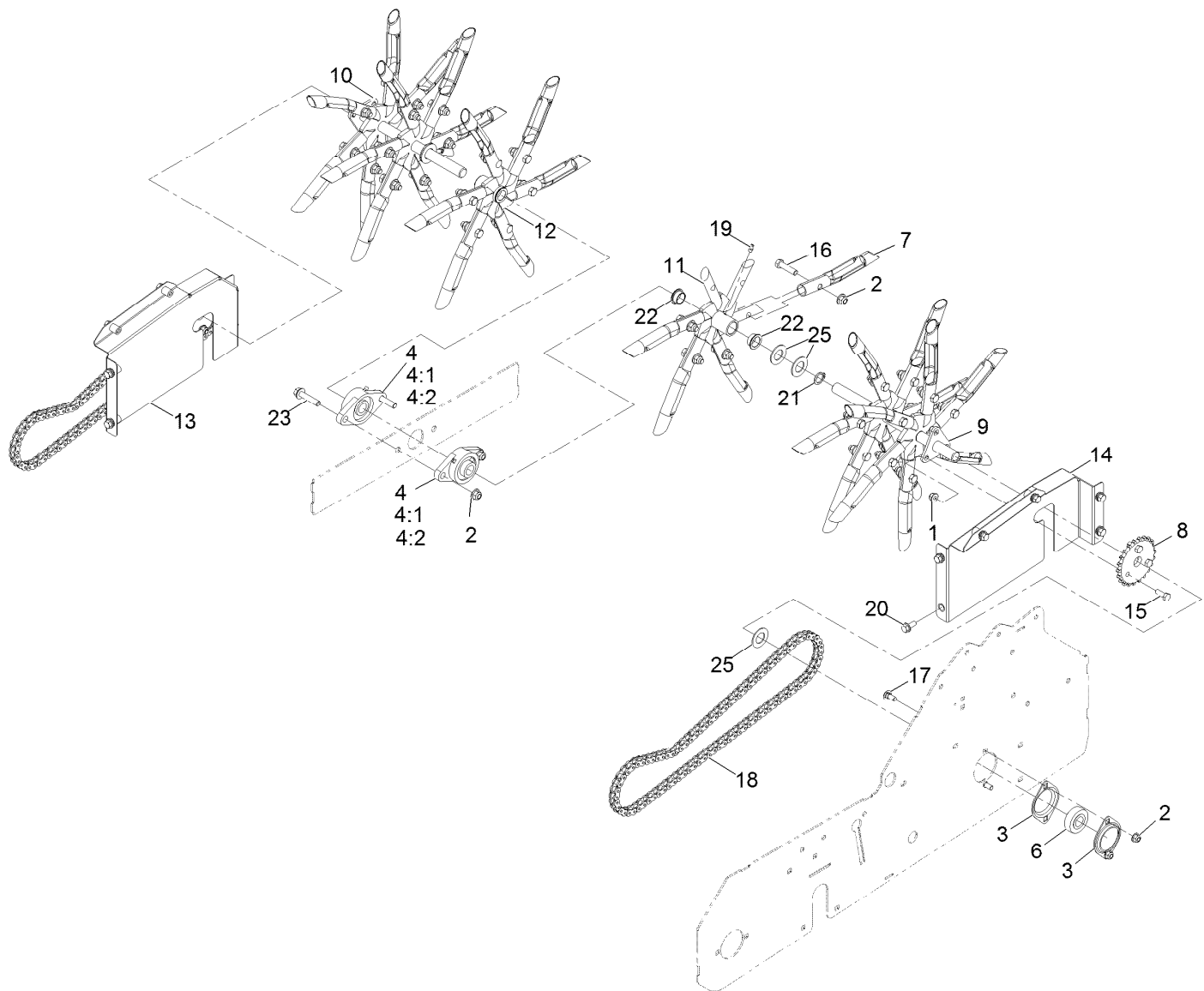
Ref.	Part Number	Qty.	Description
23	3296-3	1	Nut-Nyloc 1/4-28
24	126-1656-03	1	Bracket-Trunnion
25	116-9883-03	1	Asm-Lower Handle
26	126-0841-03	2	Link-Lift
27	1-613204	2	Balljoint
28	103-0608	1	Balljoint
29	121-1893-03	1	Handle-Lower
30	116-9893	1	Rod-Upper Link
31	3231-24	1	Bolt-Carriage 3/8-16 X 3 3/4
33	3231-2	2	Bolt-Carriage 3/8-16 X 1
35	3256-24	1	Washer-3/8 Sae
36	3219-3	5	Nut-Hex 3/8-24
37	104-8301	9	Nut-Nyloc 3/8-16 Flg
38	3231-4	3	Bolt-Carriage 3/8-16 X 1 1/2
39	3219-20	1	Nut-Hex 3/8-24 LH
40	103-1167	1	Joint-Ball End
41	106-2177	1	Spring-Extension
42	80-7730	3	Spacer
43	322-6	1	Screw-HH 5/16-18 X 1 1/4
44	32128-20	1	Nut-Whizlock 5/16-18
45	126-1657-03	1	Bracket-Spring
47	01-170-0040	1	U-Bolt
48	117-9971	1	Bolt-Carriage



Height Linkage Assembly

Ref.	Part Number	Qty.	Description
1	126-0829	1	Wheel Arm ASM-LH W/Brgs
1:2	108519	2	Bushing-Bronze
2	126-0830	1	Wheel Arm ASM-RH W/Brgs
2:2	108519	2	Bushing-Bronze
3	126-3185	1	Shaft-Pivot
4	3231-25	1	Bolt-Carriage 3/8-16 X 1 1/4
5	1-613204	4	Balljoint
6	3290-495	2	Pin-Klik
7	63-9710	2	Spacer-Bearing
8	121-4897	2	Wheel-Transport
10	3256-24	4	Washer-3/8 Sae
11	104-8301	11	Nut-Nyloc 3/8-16 Flg
12	3231-4	4	Bolt-Carriage 3/8-16 X 1 1/2
13	126-1345-03	1	Arm-Lift RH
14	323-12	2	Screw-HH 3/8-16 X 2 1/2
16	126-0564	1	Foot Guard
16:2	116-9884	1	Shield Foot
16:3	3269-20	12	Rivet-Pop

Ref.	Part Number	Qty.	Description
17	3290-357	4	Nut-Whizlock 3/8-16
18	1-603735	4	Bushing-Flanged
19	94-8196	4	Washer-Nylon
20	80-7730	2	Spacer
21	323-8	4	Screw-HH 3/8-16 X 1 1/2
24	126-0824-01	1	Arm-Guard LH
25	126-0825-01	1	Arm-Guard RH
26	3256-28	4	Washer-3/4 Sae
27	32120-93	3	Ring-Retaining
28	322-3	2	Screw-HH 5/16-18 X 3/4
29	109-4872	2	Screw-Hsph 5/16-18 X 1
30	104-8300	4	Nut-Nyloc 5/16-18 Flg
31	116-8331	2	Guide-Trail Arm
32	87-7480	2	Washer
33	116-9855	2	Rod-Lift Link
34	3220-3	4	Nut-Jam 3/8-24
35	5-0652	2	Spacer



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
4:1	302-58	1	Fitting-Straight
4:2	3245-35	2	Screw-Set HSH 1/4-28 X 1/4
6	120-9350	2	Bearing-Lock, Collar
7	121-4894	36	Tine-Coring
8	116-9896	2	Sprocket-#40 22T
9	121-4930	1	Tine-Wheel LH
10	121-6072	1	Tine-Wheel RH
11	121-6099	1	Tine-Spyder
12	121-6096	1	Tine-Spyder

Ref.	Part Number	Qty.	Description
13	126-1204	1	ASM-Chain Guard, RH
14	126-1206	1	ASM-Chain Guard, LH
15	322-4	6	Screw-HH 5/16-18 X 7/8
16	323-8	36	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
25	69-8930	6	Washer

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.

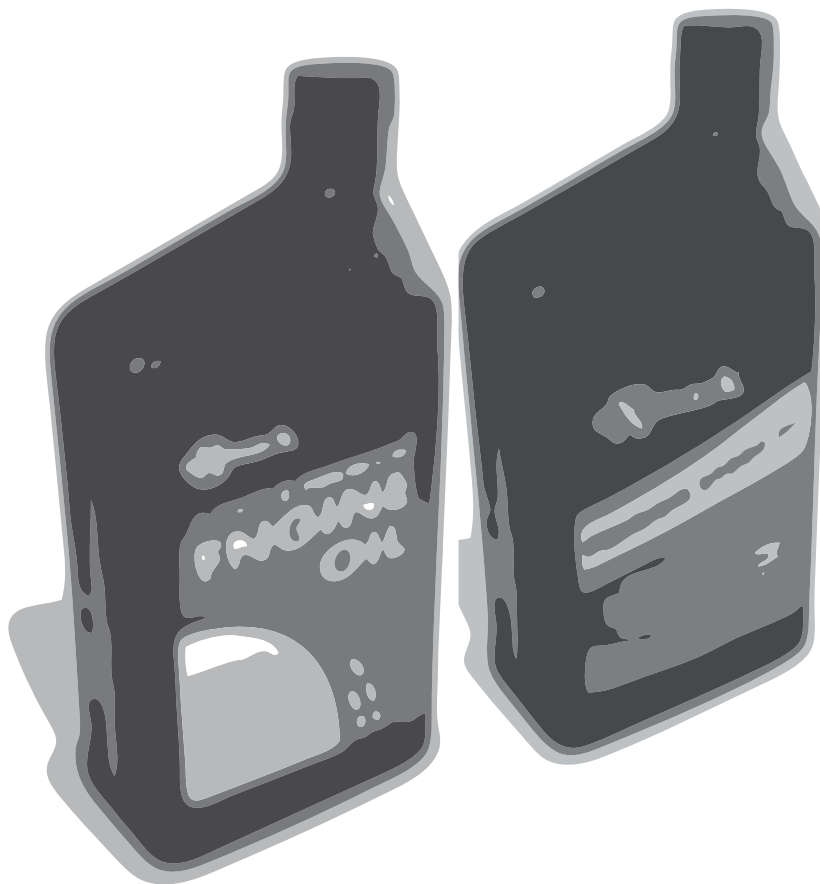
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Part No. 109-9828

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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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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