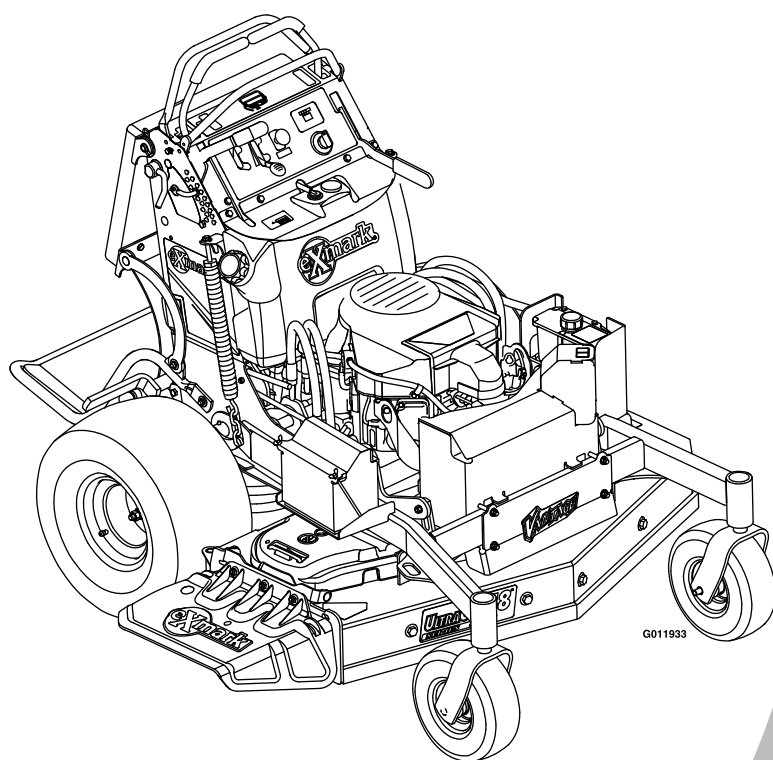




## **VANTAGE®**

Model No. VT691KA524—Serial No. 312000000 and Up

Picture below may not reflect actual product.



# 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

|                                              |                                                |                                          |
|----------------------------------------------|------------------------------------------------|------------------------------------------|
| <b>AR:</b> as required                       | <b>HJ:</b> hex jam                             | <b>PTH:</b> phillips truss head          |
| <b>ASM:</b> assembly                         | <b>HLH:</b> hex lag head                       | <b>PTO:</b> power-take-off               |
| <b>BBC:</b> blade brake control              | <b>HOC:</b> height-of-cut                      | <b>RH:</b> right hand                    |
| <b>BHTF:</b> button head thread forming      | <b>HSBH:</b> hex socket button head            | <b>ROPS:</b> roll-over protection system |
| <b>CARR:</b> carriage                        | <b>HSFH:</b> hex socket flat head              | <b>RRB:</b> rear roller brush            |
| <b>CCW:</b> counter clockwise                | <b>HSH:</b> hex socket head                    | <b>SFH:</b> slotted fillister head       |
| <b>CW:</b> clockwise                         | <b>HWH:</b> hex washer head                    | <b>SHH:</b> slotted hex head             |
| <b>DEG:</b> degrees                          | <b>HWHTF:</b> hex washer head thread forming   | <b>SHWH:</b> slotted hex washer head     |
| <b>DPA:</b> Dual Point Adjustment            | <b>HYD:</b> hydraulic                          | <b>SPH:</b> slotted pan head             |
| <b>ECM:</b> electronic control module        | <b>LH:</b> left hand                           | <b>SQH:</b> square head                  |
| <b>EXT:</b> external                         | <b>LPG:</b> Liquid Propane Gas                 | <b>SRH:</b> slotted round head           |
| <b>FH:</b> flat head                         | <b>NI:</b> nylon insert                        | <b>STD:</b> standard                     |
| <b>GA:</b> gauge                             | <b>NPTF:</b> national pipe thread fine         | <b>TAP:</b> self tapping                 |
| <b>HD:</b> heavy-duty                        | <b>PFH:</b> phillips flat head                 | <b>TTH:</b> torx truss head              |
| <b>HF:</b> hex flange                        | <b>PPH:</b> phillips pan head                  |                                          |
| <b>HH:</b> hex head                          | <b>PPHTF:</b> phillips pan head thread forming |                                          |
| <b>HHF:</b> hex head flange                  | <b>PRH:</b> phillips round head                |                                          |
| <b>HHFTF:</b> hex head flange thread forming |                                                |                                          |

# Touch Up Paint

Exmark black touch up spray paint – gloss black.

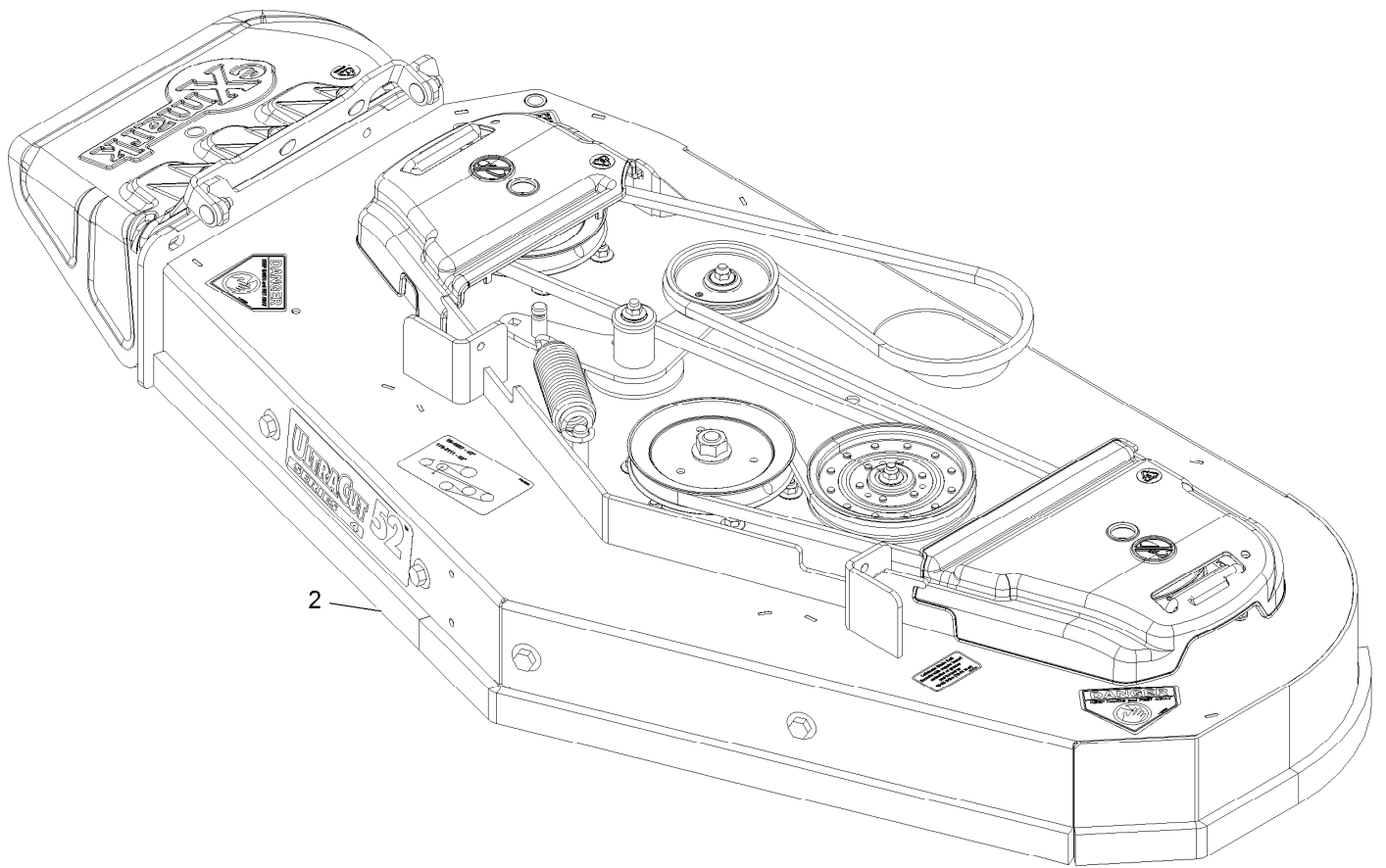
Exmark red touch up paint (spray paint – P/N 1-850337 - .6 oz liquid bottle – P/N 103-9140).



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.)

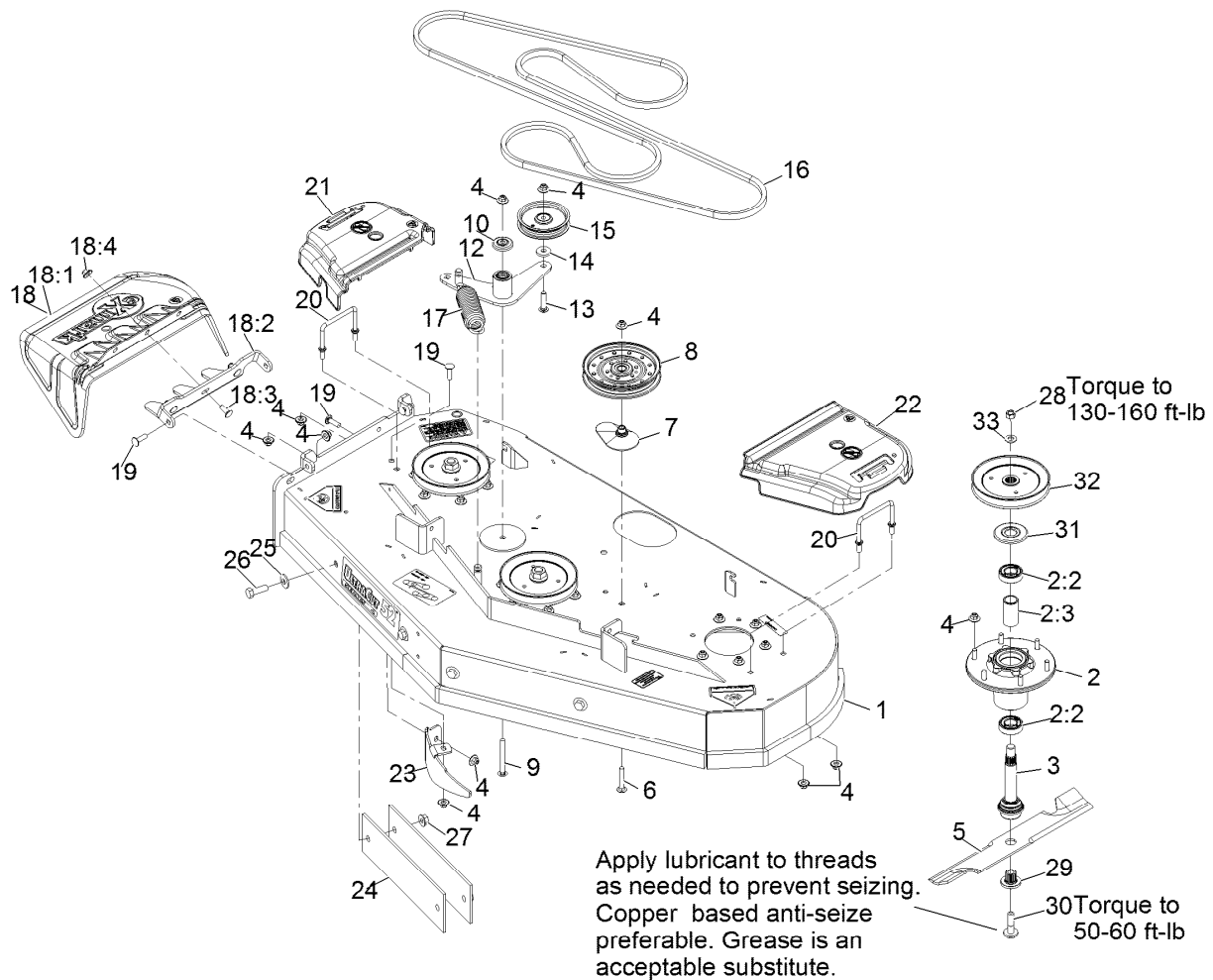
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| Electrical Assembly .....                               | 27 |



## Complete Deck Assembly

| Ref. | Part Number | Qty. | Description           |
|------|-------------|------|-----------------------|
| 2    | 116-5012    | 1    | ASM-Deck Complete 524 |



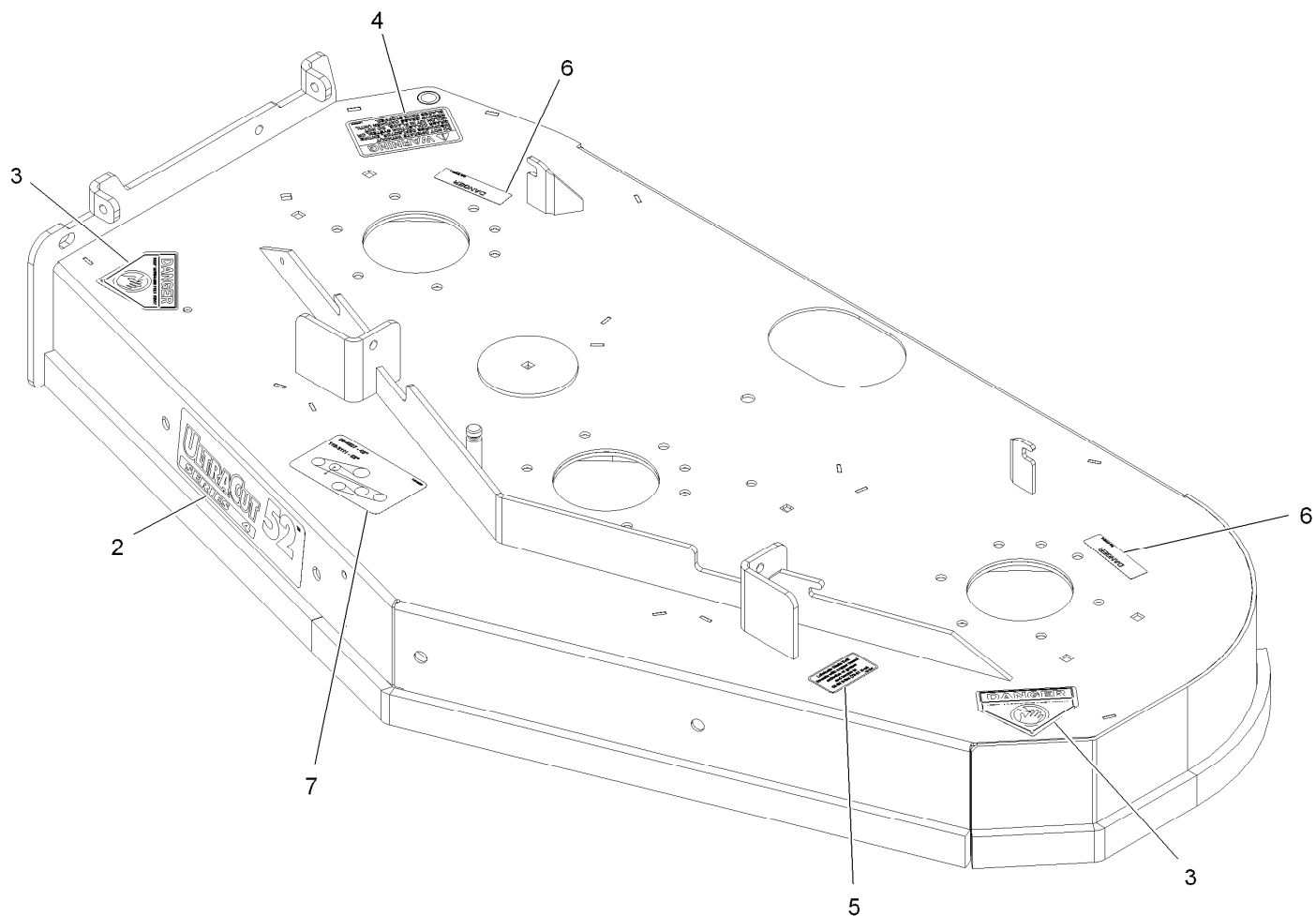
## Deck Assembly

| Ref. | Part Number | Qty. | Description                     |
|------|-------------|------|---------------------------------|
| 1    | 116-4001    | 1    | Deck ASM-524                    |
| 2    | 116-3344    | 3    | ASM-Cutter Hsg With Bearings    |
| 2:2  | 116-0720    | 2    | Bearing-Ball                    |
| 2:3  | 116-3312    | 1    | Spacer-Bearing                  |
| 3    | 116-3341    | 3    | ASM-Spindle And Seal ■          |
| 4    | 109-6658    | 29   | Nut-Nyloc 3/8-16 Flg            |
| 5    | 116-5175    | 3    | Blade-Extreme 2, 18.00"         |
| 5    | 103-6402    | 3    | Blade-Notched                   |
| 5    | 103-6392    | 3    | Blade, Mulch 18.0 (.94 Hole) ●  |
| 5    | 103-6387    | 3    | Blade, Low Lift 18.0 (.94 Hole) |
| 5    | 103-6382    | 3    | Blade, Solid 18.0 (.94 Hole)    |
| 6    | 3231-7      | 1    | Bolt-Carriage 3/8-16 X 2 1/4    |
| 7    | 109-2872    | 1    | Spacer-Pulley                   |
| 8    | 116-4667    | 1    | Idler-Pulley, Flat              |
| 9    | 3231-11     | 1    | Bolt-Carriage 3/8-16 X 3 1/2    |
| 10   | 103-2916    | 1    | Guard-Top                       |
| 12   | 116-3806    | 1    | Idler Arm ASM W/Bearings        |
| 13   | 116-3381    | 1    | Bolt-Carriage 3/8-16 X 1 3/4    |
| 14   | 1-373034    | 1    | Washer                          |
| 15   | 93-1622     | 1    | Pulley-Idler                    |

| Ref. | Part Number | Qty. | Description                  |
|------|-------------|------|------------------------------|
| 16   | 116-3111    | 1    | Belt-B158.0                  |
| 17   | 116-6317    | 1    | Spring-Extension             |
| 18   | 109-7188    | 1    | ASM,Discharge Chute          |
| 18:1 | 109-2738    | 1    | Chute,Discharge              |
| 18:2 | 109-8675-01 | 1    | Bracket,Discharge Chute      |
| 18:3 | 3231-22     | 3    | Bolt-Carriage 3/8-16 X 1     |
| 18:4 | 109-6658    | 3    | Nut-Nyloc 3/8-16 Flg         |
| 19   | 3231-28     | 4    | Bolt-Carriage 3/8-16 X 1 1/4 |
| 20   | 109-6982    | 2    | Wireform-Cover               |
| 21   | 109-6935    | 1    | Cover-Belt, RH               |
| 22   | 109-6936    | 1    | Cover-Belt, LH               |
| 23   | 116-5814-01 | 1    | Baffle-Dogleg, Lz-Vt52       |
| 24   | 116-1822-01 | 4    | Bar,Weight                   |
| 25   | 1-513435    | 4    | Washer-Spring Disc 1/2       |
| 26   | 325-6       | 4    | Screw-HH 1/2-13 X 1 1/2      |
| 27   | 32128-49    | 4    | Nut-Whizlock 1/2-13          |
| 28   | 116-7306    | 3    | Nut-Hex                      |
| 29   | 103-3037    | 3    | Bushing,Splined              |
| 30   | 109-9220    | 3    | Screw-Sems 1/2-20 X 2.19     |
| 31   | 116-1286    | 3    | Guard,Bearing Top .989       |
| 32   | 116-0675    | 3    | Sheave,Blade Drive 6.50 ■    |
| 33   | 103-2802    | 3    | Washer-Spring Disc 3/4       |

● 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.



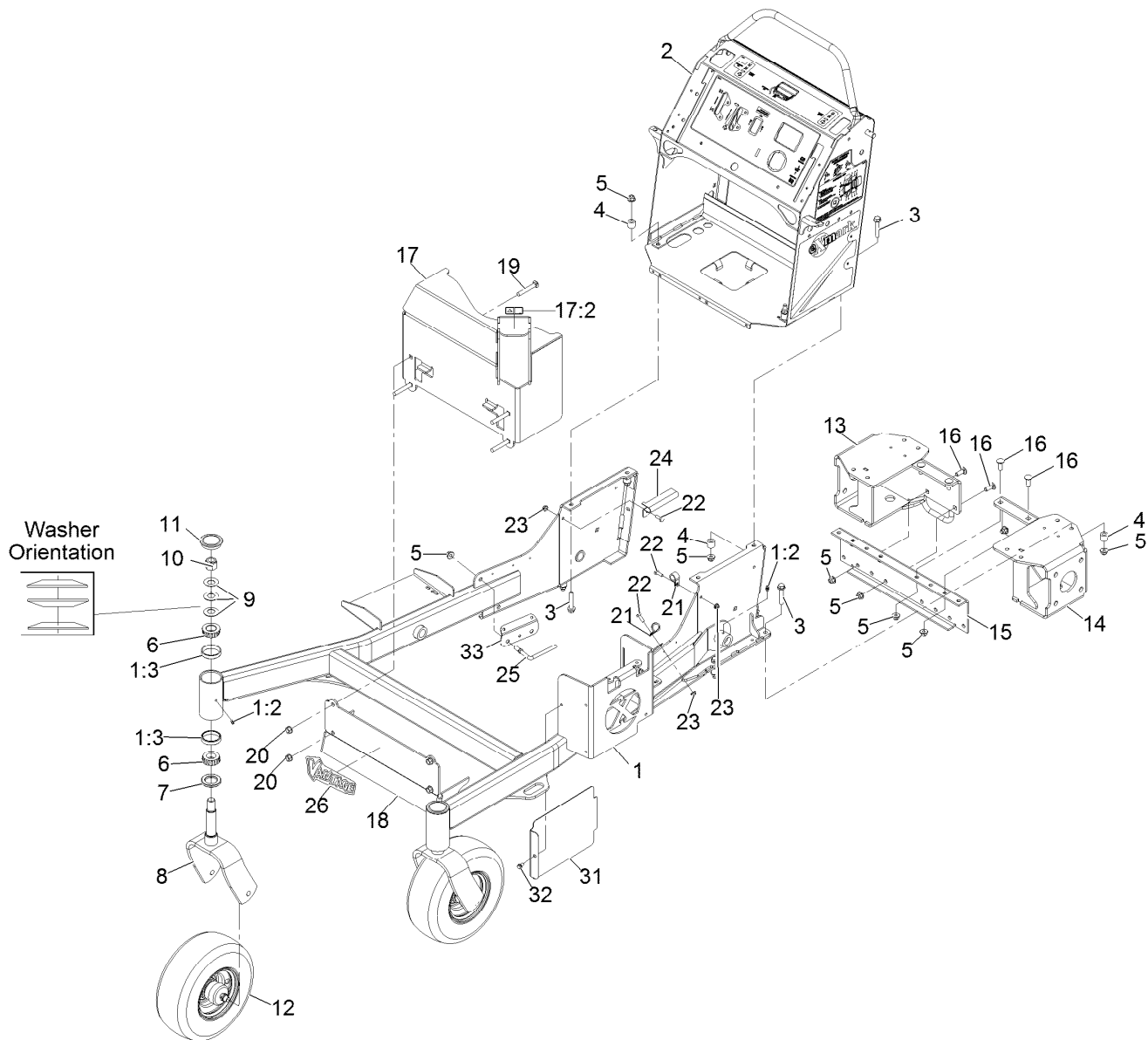
## Deck W/Decals Assembly No. 116-4001

| Ref. | Part Number | Qty. | Description                |
|------|-------------|------|----------------------------|
| 2    | 116-0034    | 1    | Decal,Ultracut 52 Series 4 |
| 3    | 1-403005    | 2    | Decal-Danger               |
| 4    | 1-303508    | 1    | Decal-Warning, Discharge   |
| 5    | 109-3148    | 1    | Decal,Bolt Torque          |
| 6    | 98-5954     | 2    | Decal-Cover, Missing       |
| 7    | 116-3283    | 1    | Decal-Belt Routing         |



## Idler Arm Assembly No. 116-3806

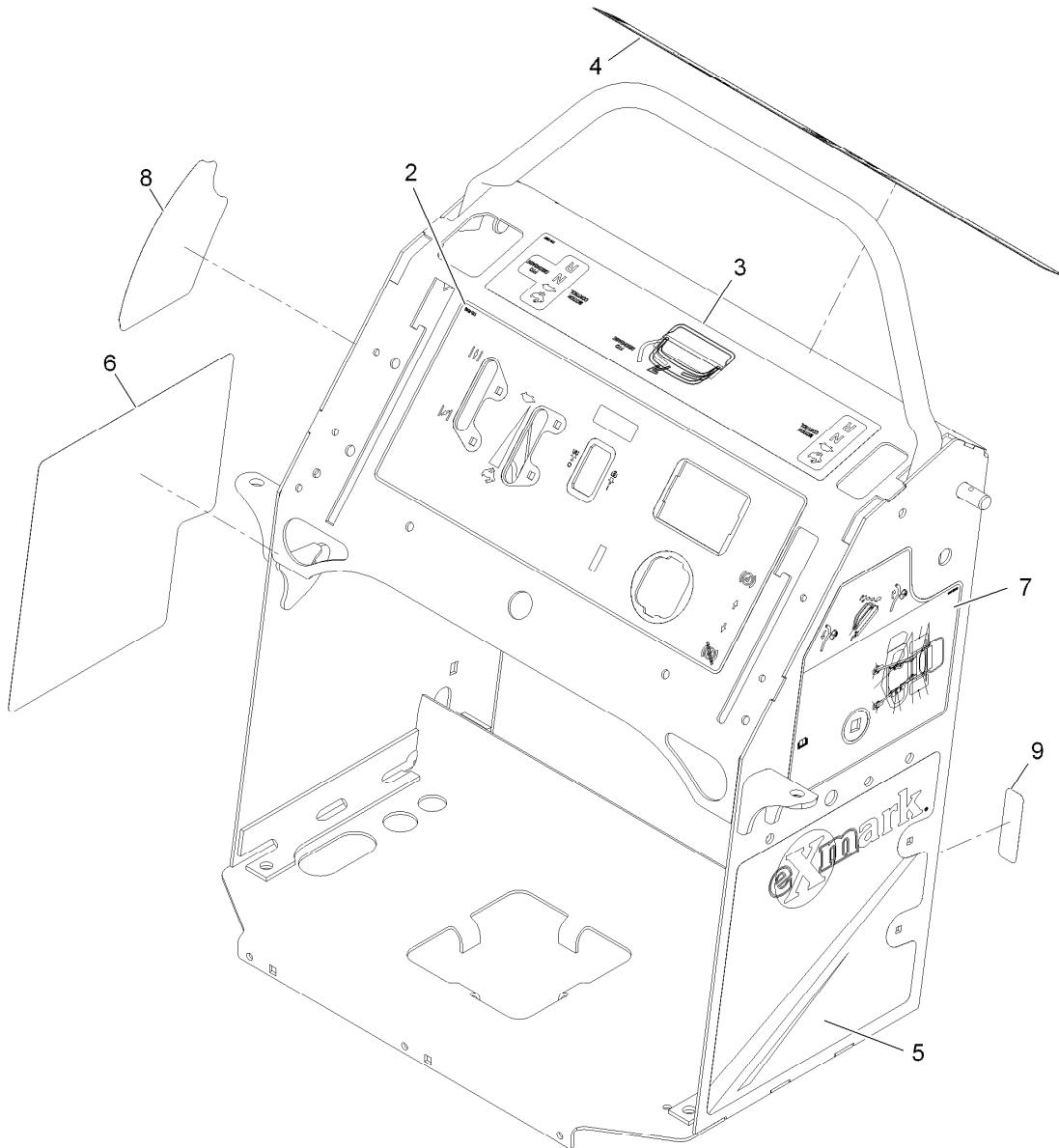
| <i>Ref.</i> | <i>Part Number</i> | <i>Qty.</i> | <i>Description</i> |
|-------------|--------------------|-------------|--------------------|
| 2           | 103-3504           | 2           | Bearing-Spherical  |
| 3           | 103-3505           | 1           | Seal-Double Lip    |
| 4           | 103-3506           | 1           | Seal-Single Lip    |
| 5           | 106-7159           | 2           | O-Ring             |
| 6           | 32120-10           | 2           | Ring-Retaining     |



## Main Frame Assembly

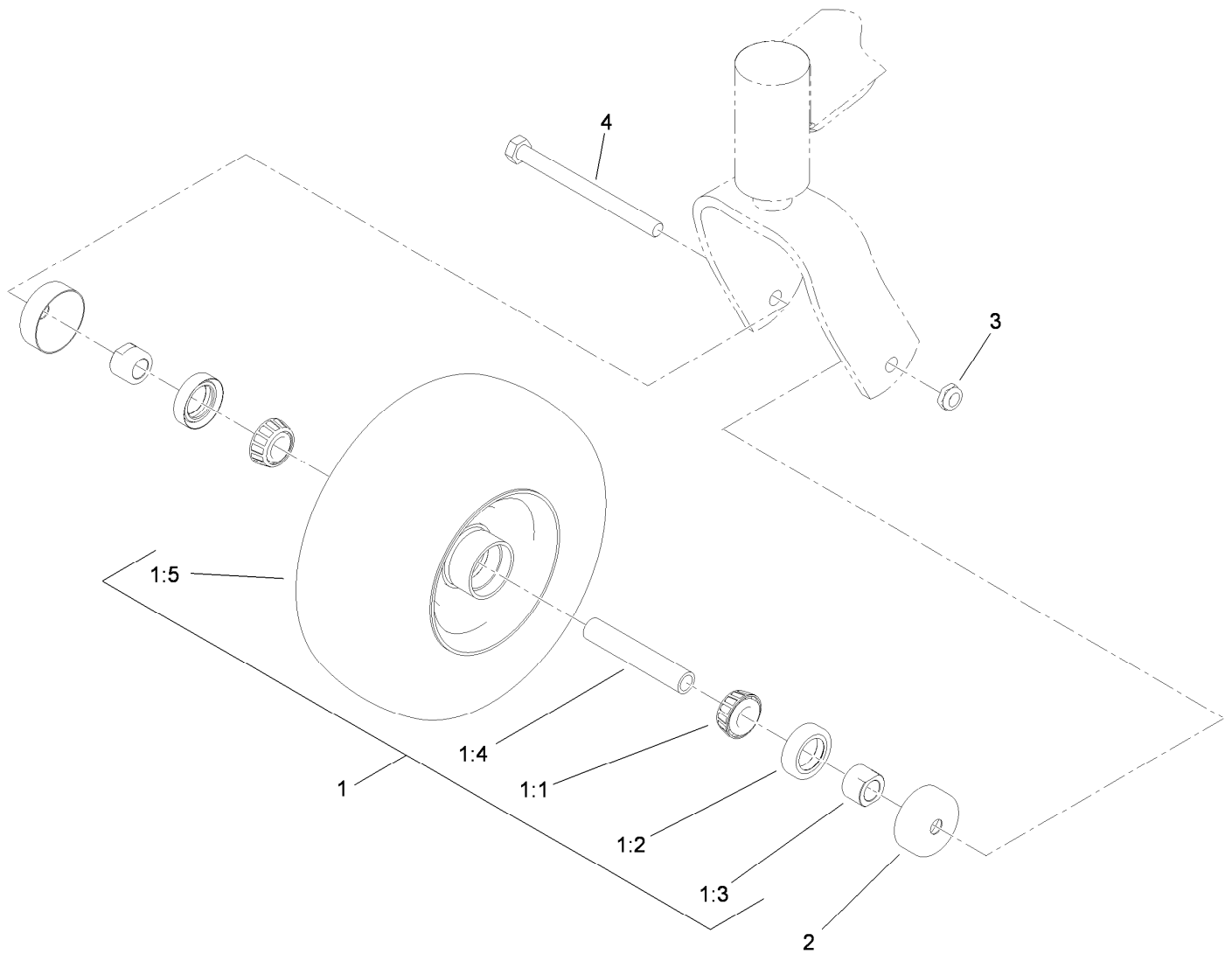
| Ref. | Part Number | Qty. | Description                  |
|------|-------------|------|------------------------------|
| 1    | 116-7045    | 1    | Front Frame ASM              |
| 1:2  | 302-5       | 4    | Zerk 1/4-28 Str Thrd Forming |
| 1:3  | 1-811010    | 2    | Plug                         |
| 2    | 116-5013    | 1    | Control Tower ASM            |
| 3    | 108-3742    | 8    | Screw-HH Flg 3/8-16 X 2      |
| 4    | 121-1760    | 8    | Spacer                       |
| 5    | 104-8301    | 18   | Nut-Nyloc 3/8-16 Flg         |
| 6    | 1-543509    | 4    | Cone-Bearing Tapered Roller  |
| 7    | 1-543511    | 2    | Seal-Grease                  |
| 8    | 103-8618-01 | 2    | Fork-Caster                  |
| 9    | 1-633508    | 6    | Washer-Spring Disc           |
| 10   | 3296-51     | 2    | Nut-Nyloc 3/4-10             |
| 11   | 103-4882    | 2    | Cap-Grease                   |
| 12   | 112-3810    | 2    | Wheel/Tire And Bearing ASM   |
| 13   | 119-7222-03 | 1    | RH Motor Mount ASM           |
| 14   | 119-7220-03 | 1    | LH Motor Mount ASM           |

| Ref. | Part Number | Qty. | Description                   |
|------|-------------|------|-------------------------------|
| 15   | 119-7224-03 | 1    | Mount-Motor, Center           |
| 16   | 3231-22     | 8    | Bolt-Carriage 3/8-16 X 1      |
| 17   | 116-2490    | 1    | Muffler Guard ASM             |
| 17:2 | 106-5517    | 1    | Decal-Warning, Hot Surface    |
| 18   | 116-3113-01 | 1    | Panel-Guard                   |
| 19   | 3231-31     | 4    | Bolt-Carriage 3/8-16 X 2 1/2  |
| 20   | 32128-21    | 4    | Nut-3/8-16 Flanged Side Lock  |
| 21   | 2412-87     | 1    | Clamp-Cable                   |
| 22   | 321-4       | 2    | Screw-HH 1/4-20 X 3/4         |
| 23   | 104-7201    | 2    | Nut-Nyloc 1/4-20 Flg          |
| 24   | 116-5067    | 1    | Bracket-Hose, Fuel (Double)   |
| 25   | 116-3382    | 2    | Guide-Hose, Support           |
| 26   | 116-3137    | 1    | Decal-Vantage Logo            |
| 31   | 116-6981-01 | 1    | Shield-Heat, Tall             |
| 32   | 32144-4     | 1    | Screw-HWH 1/2-20 X 1/2 Tapite |
| 33   | 116-6997-01 | 2    | Guard-Hose                    |



## Control Tower With Decals Assembly No. 116-5013

| Ref. | Part Number | Qty. | Description          |
|------|-------------|------|----------------------|
| 2    | 116-4648    | 1    | Decal-Control Panel  |
| 3    | 116-1887    | 1    | Decal-Motion Control |
| 4    | 116-4647    | 1    | Decal-Warning        |
| 5    | 116-4269    | 1    | Decal-LH Panel       |
| 6    | 116-1909    | 1    | Decal-RH Panel       |
| 7    | 116-5040    | 1    | Decal-Service Aid    |
| 8    | 116-2040    | 1    | Decal-Height Of Cut  |
| 9    | 116-3267    | 1    | Decal-Fuse           |

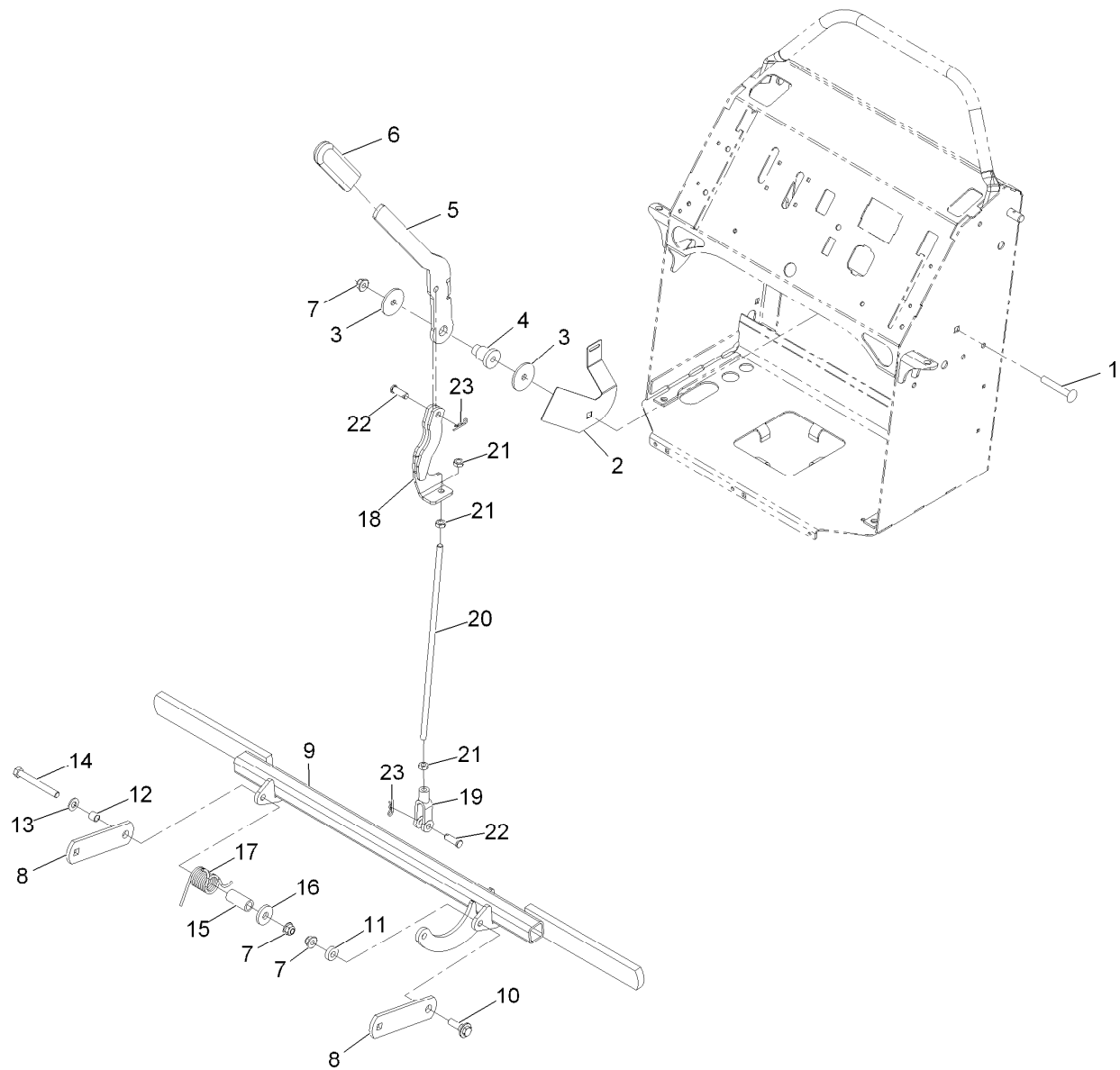


## Wheel and Bearing Assembly No. 112-3810

| Ref. | Part Number | Qty. | Description             |
|------|-------------|------|-------------------------|
| 1    |             | 1    | Wheel And Bearing ASM ● |
| 1:1  | 1-633585    | 2    | Bearing-Cone, Taper     |
| 1:2  | 103-0063    | 2    | Seal-Caster             |
| 1:3  | 103-3051    | 2    | Spacer-Nut ■            |
| 1:4  | 103-3157    | 1    | Axle-Caster             |
| 1:5  | 110-9965    | 1    | Wheel And Tire ASM      |
| 2    | 103-2768    | 2    | Guard-Seal              |
| 3    | 3296-45     | 1    | Nut-Lock, NI            |
| 4    | 325-20      | 1    | Screw-HH                |

● Not serviced separately

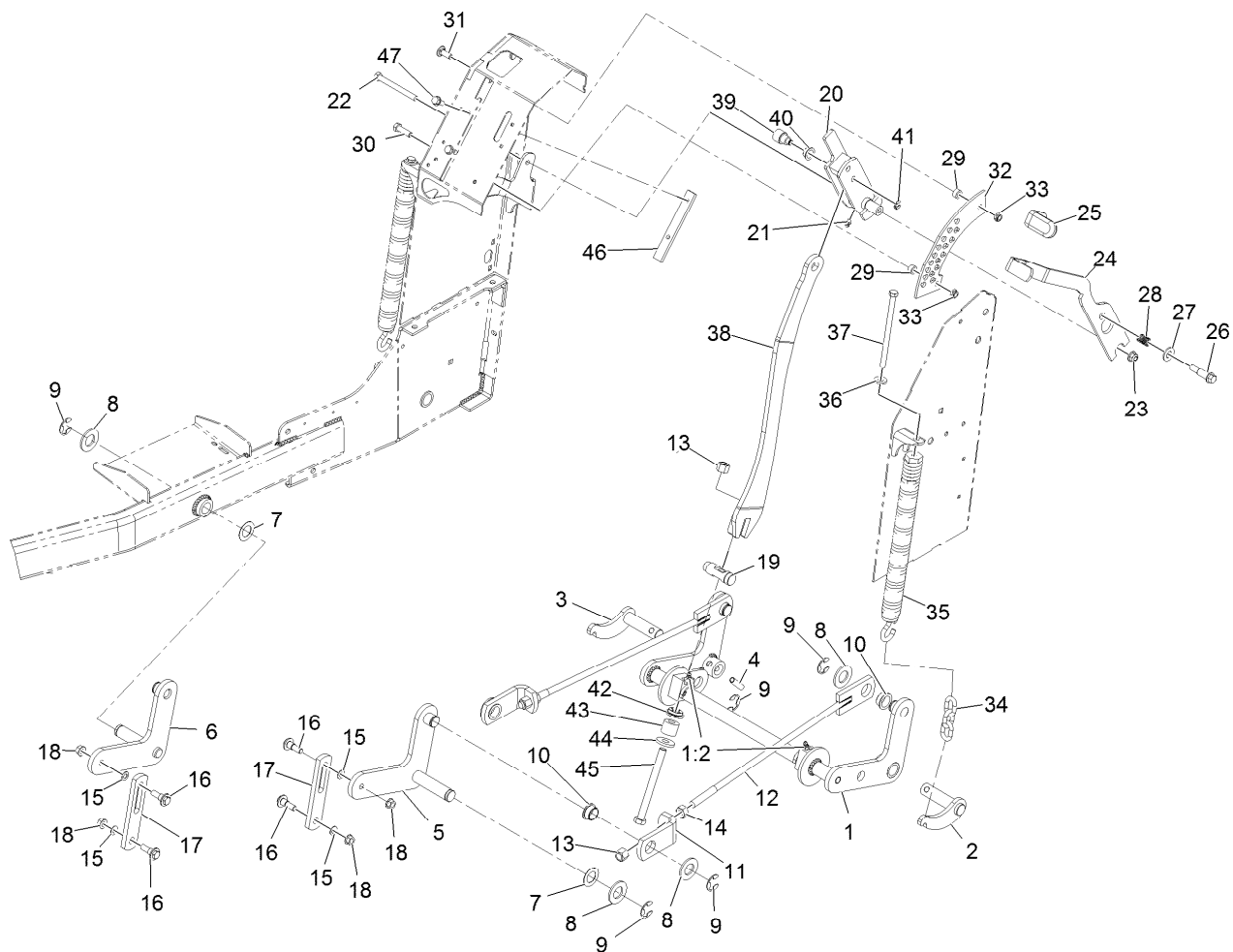
■ Use Pro-Lock, Nut Type (P/N 1-840022, .5ml tube) on spacer nut



## Park Brake Assembly

| Ref. | Part Number | Qty. | Description                   |
|------|-------------|------|-------------------------------|
| 1    | 3231-44     | 1    | Bolt-Carriage 3/8-16 X 2 1/2  |
| 2    | 117-0452-03 | 1    | Plate-Switch, Brake           |
| 3    | 63-7400     | 2    | Washer-Rebound                |
| 4    | 106-3214    | 1    | Mount-Pulley                  |
| 5    | 117-5759-03 | 1    | Lever-Brake                   |
| 6    | 1-633268    | 1    | Grip-Lever                    |
| 7    | 104-8301    | 3    | Nut-Nyloc 3/8-16 Flg          |
| 8    | 114-5186-01 | 2    | Support-Brake                 |
| 9    | 119-8730-03 | 1    | Brake Bar ASM                 |
| 10   | 614672      | 1    | Screw-Shoulder 3/8-16 X 1.295 |
| 11   | 5-0652      | 1    | Spacer                        |

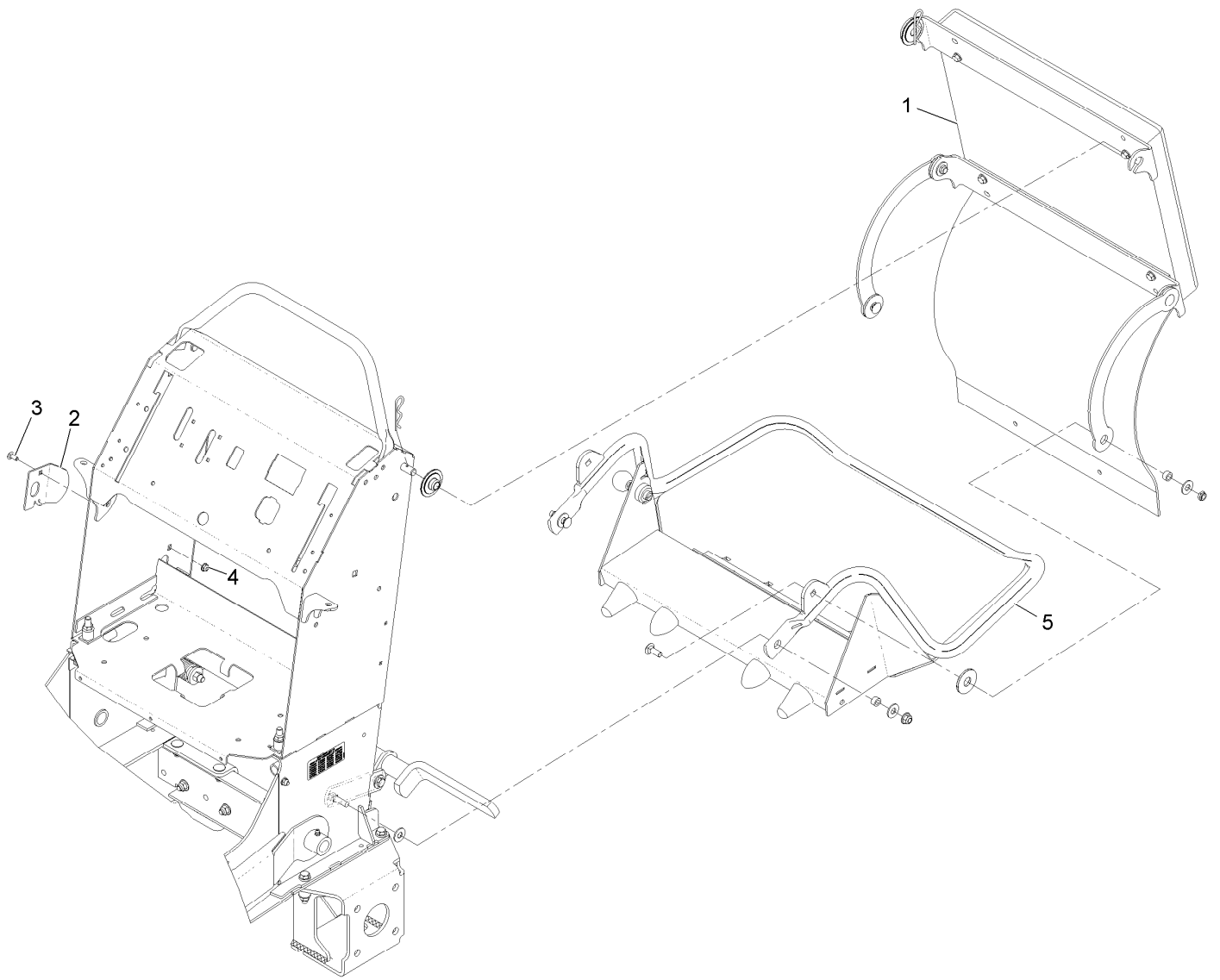
| Ref. | Part Number | Qty. | Description             |
|------|-------------|------|-------------------------|
| 12   | 117-9684    | 1    | Spacer                  |
| 13   | 3256-24     | 1    | Washer-3/8 Sae          |
| 14   | 323-20      | 1    | Screw-HH 3/8-16 X 3-1/4 |
| 15   | 117-9683    | 1    | Spacer                  |
| 16   | 117-9682    | 1    | Spring-Torsion          |
| 17   | 1-373034    | 1    | Washer                  |
| 18   | 119-8780-03 | 1    | Brake Arm ASM           |
| 19   | 1-633131    | 1    | Yoke-Linkage, Brake     |
| 20   | 119-7244    | 1    | Rod-Brake               |
| 21   | 3220-3      | 3    | Nut-Jam 3/8-24          |
| 22   | 283-2       | 2    | Pin-Clevis 3/8 X 1 1/6  |
| 23   | 3290-307    | 2    | Pin-Hair                |



## Deck Lift Assembly

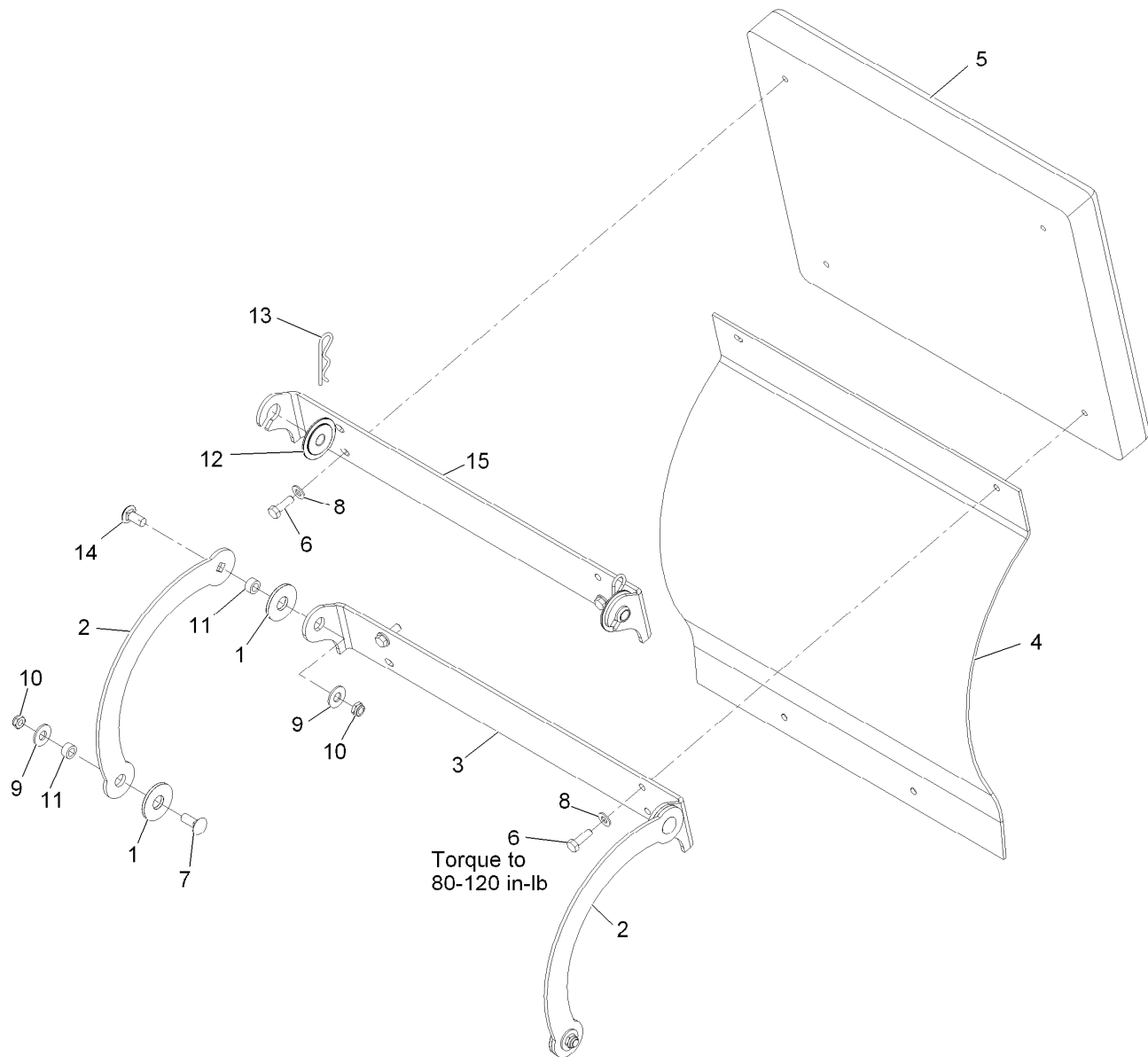
| Ref. | Part Number | Qty. | Description                   |
|------|-------------|------|-------------------------------|
| 1    | 116-3103    | 1    | Rear Crossshaft ASM           |
| 1:2  | 302-11      | 2    | Zerk-45° 1/4-28               |
| 2    | 116-3104-01 | 1    | LH Pivot Shaft ASM            |
| 3    | 116-3105-01 | 1    | RH Pivot Shaft ASM            |
| 4    | 116-3107    | 2    | Pin-Spiral                    |
| 5    | 117-0488-01 | 1    | LH Lift ASM                   |
| 6    | 117-0489-01 | 1    | RH Lift ASM                   |
| 7    | 110-6767    | 2    | Washer-Thrust                 |
| 8    | 3256-29     | 6    | Washer-7/8 Sae                |
| 9    | 32151-103   | 7    | E-Ring                        |
| 10   | 116-2909    | 4    | Bearing-Flange                |
| 11   | 116-2901    | 2    | Bracket-Lift Rod              |
| 12   | 116-2902    | 2    | Lift Rod ASM                  |
| 13   | 3296-23     | 3    | Nut-Nyloc 1/2-13              |
| 14   | 3217-9      | 2    | Nut-Hex 1/2-13                |
| 15   | 40-1940     | 4    | Washer                        |
| 16   | 109-9840    | 4    | Screw-Hex Flange 3/8-16 X .80 |
| 17   | 117-0519    | 2    | Link-Lift                     |
| 18   | 32128-21    | 4    | Nut-3/8-16 Flanged Side Lock  |
| 19   | 114-5274    | 1    | Pin-HOC                       |
| 20   | 114-3512    | 1    | HOC Handle ASM                |
| 21   | 302-5       | 1    | Zerk 1/4-28 Str Thrd Forming  |
| 22   | 323-42      | 1    | Screw-HH 3/8-16 X 3 3/4       |
| 23   | 104-8301    | 1    | Nut-Nyloc 3/8-16 Flg          |

| Ref. | Part Number | Qty. | Description                |
|------|-------------|------|----------------------------|
| 24   | 114-1878-03 | 1    | Lever-HOC                  |
| 25   | 1-633268    | 1    | Grip-Lever                 |
| 26   | 66-0561     | 1    | Screw-Shoulder             |
| 27   | 3256-26     | 1    | Washer-1/2 Sae             |
| 28   | 65-9940     | 1    | Spring                     |
| 29   | 111044      | 2    | Bushing                    |
| 30   | 323-7       | 1    | Screw-HH 3/8-16 X 1 1/4    |
| 31   | 3231-22     | 1    | Bolt-Carriage 3/8-16 X 1   |
| 32   | 114-5307    | 1    | Bracket-HOC                |
| 33   | 3296-59     | 2    | Nut-Nyloc 3/8-16 Thin      |
| 34   | 103-9859    | 2    | Chain-Decklift, Front      |
| 35   | 116-0886    | 2    | Extension Spring ASM       |
| 36   | 98-5975     | 2    | Washer-Spring Disc 3/8     |
| 37   | 323-58      | 2    | Bolt-HH 3/8-16 X 6 Tap     |
| 38   | 116-2939    | 1    | Bar-Lift                   |
| 39   | 116-3048    | 1    | Hub-Pivot                  |
| 40   | 116-3047    | 1    | Bearing-Flange             |
| 41   | 32151-47    | 1    | Ring-Retaining             |
| 42   | 116-3625    | 1    | Seat-Spring                |
| 43   | 116-3241    | 1    | Spring-Urethane            |
| 44   | 92-2651     | 1    | Washer                     |
| 45   | 325-22      | 1    | Screw-HH 1/2-13 X 5 1/2    |
| 46   | 116-3124    | 1    | Skid-Handle, Lift          |
| 47   | 32144-11    | 2    | Screw-HWH 5/16-18 X 3/4 Tf |



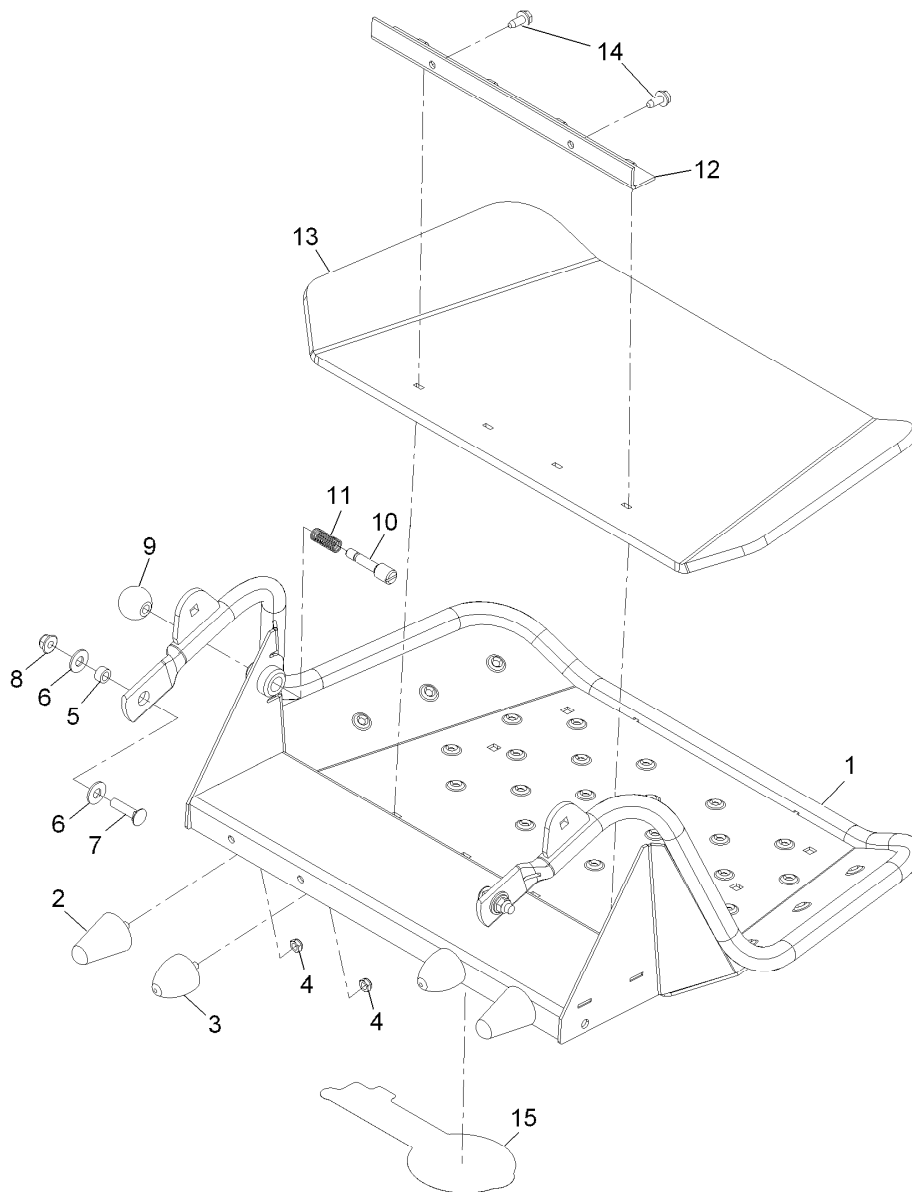
## Platform Group

| <i>Ref.</i> | <i>Part Number</i> | <i>Qty.</i> | <i>Description</i>         |
|-------------|--------------------|-------------|----------------------------|
| 1           | 116-1803           | 1           | Cushion ASM                |
| 2           | 119-7312           | 1           | Plate-Striker              |
| 3           | 3229-11            | 1           | Bolt-Carriage 1/4-20 X 5/8 |
| 4           | 104-7201           | 1           | Nut-Nyloc 1/4-20 Flg       |
| 5           | 116-1804           | 1           | ASM,Platform               |



## Cushion Assembly No. 116-1803

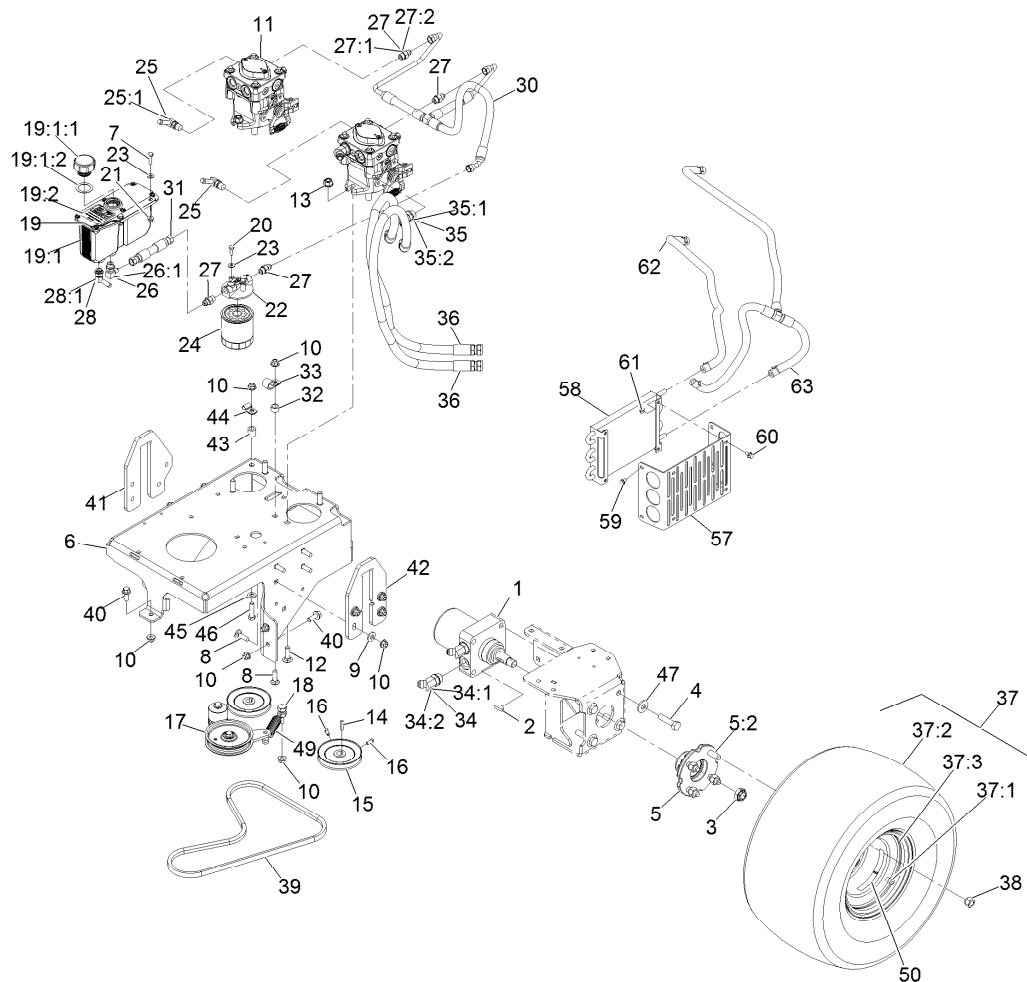
| Ref. | Part Number | Qty. | Description                  |
|------|-------------|------|------------------------------|
| 1    | 114-0463    | 4    | Washer-Friction, Composite   |
| 2    | 114-1915-03 | 2    | Link-Pad                     |
| 3    | 116-2061-03 | 1    | Hinge-Pad                    |
| 4    | 116-3406    | 1    | Shield-Rear                  |
| 5    | 116-1790    | 1    | Pad,Grey Cushion             |
| 6    | 116-0648    | 4    | Screw-HH 5/16-18 X 1 W/Patch |
| 7    | 3231-2      | 2    | Bolt-Carriage 3/8-16 X 1     |
| 8    | 3256-23     | 4    | Washer-5/16 Sae              |
| 9    | 3256-4      | 4    | Washer-3/8 Std               |
| 10   | 3296-59     | 4    | Nut-Nyloc 3/8-16 Thin        |
| 11   | 111044      | 4    | Bushing                      |
| 12   | 116-2886    | 2    | Slide-Bushing                |
| 13   | 3290-355    | 2    | Pin-Hair                     |
| 14   | 3231-27     | 2    | Bolt-Carriage 3/8-16 X 7/8   |
| 15   | 116-2757-03 | 1    | Hinge-Pad                    |



## Platform Assembly No. 116-1804

| Ref. | Part Number | Qty. | Description                  |
|------|-------------|------|------------------------------|
| 1    | 117-9641-03 | 1    | Platform ASM                 |
| 2    | 114-1925    | 2    | Bumper-Rubber                |
| 3    | 114-1926    | 2    | Bumper-Rubber                |
| 4    | 3296-47     | 4    | Nut-Nyloc 5/16-18 Thin       |
| 5    | 111044      | 2    | Bushing                      |
| 6    | 3256-4      | 4    | Washer-3/8 Std               |
| 7    | 3231-4      | 2    | Bolt-Carriage 3/8-16 X 1 1/2 |
| 8    | 104-8301    | 2    | Nut-Nyloc 3/8-16 Flg         |
| 9    | 1-603175    | 1    | Knob-Ball                    |
| 10   | 119-8650    | 1    | Pin-Latch ●                  |
| 11   | 114-5348    | 1    | Spring                       |
| 12   | 114-1920-03 | 1    | Clamp-Shield                 |
| 13   | 114-5349    | 1    | Mat-Foot                     |
| 14   | 32144-70    | 2    | Screw-HWH 5/16-18 X 3/4 Tf   |
| 15   | 1-653546    | 1    | Decal, Exmark Logo           |

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



## Ground Drive Assembly

| Ref.   | Part Number | Qty. | Description                   |
|--------|-------------|------|-------------------------------|
| 1      | 116-4851    | 2    | Motor-Wheel                   |
| 2      | 3257-8      | 2    | Key-Woodruff                  |
| 3      | 116-2839    | 2    | Nut-Lock                      |
| 4      | 325-8       | 8    | Screw-HH 1/2-13 X 1 1/4       |
| 5      | 105-0800    | 2    | Wheel Hub ASM                 |
| 5:2    | 10-6830     | 4    | Stud-Type, Drive              |
| 6      | 116-6128-01 | 1    | Base-Engine [red]             |
| 7      | 321-6       | 2    | Screw-HH 1/4-20 X 1           |
| 8      | 3231-25     | 9    | Bolt-Carriage 3/8-16 X 1 1/4  |
| 9      | 98-5975     | 8    | Washer-Spring Disc 3/8        |
| 10     | 104-8301    | 16   | Nut-Nyloc 3/8-16 Flg          |
| 11     | 116-2572    | 2    | Pump - Hydraulic              |
| 12     | 3232-3      | 4    | Bolt-Carriage 7/16-14 X 1 1/2 |
| 13     | 114-8417    | 4    | Nut-HF, NI                    |
| 14     | 1-807272    | 2    | Key-5Mm X 5Mm X 25Mm          |
| 15     | 105-5648    | 2    | Pulley-Pump ■                 |
| 16     | 3241-5      | 4    | Screw-Set ◆                   |
| 17     | 117-7685    | 1    | Pump Idler ASM                |
| 18     | 114-5866    | 1    | Anchor-Spring, Short          |
| 19     | 116-2066    | 1    | ASM,Reservoir W/Decals ▲      |
| 19:1   |             | 1    | Reservoir-HYD ●               |
| 19:1:1 | 103-1948    | 1    | Cap-Reservoir, HYD            |
| 19:1:2 | 103-1949    | 1    | Gasket-Cap                    |

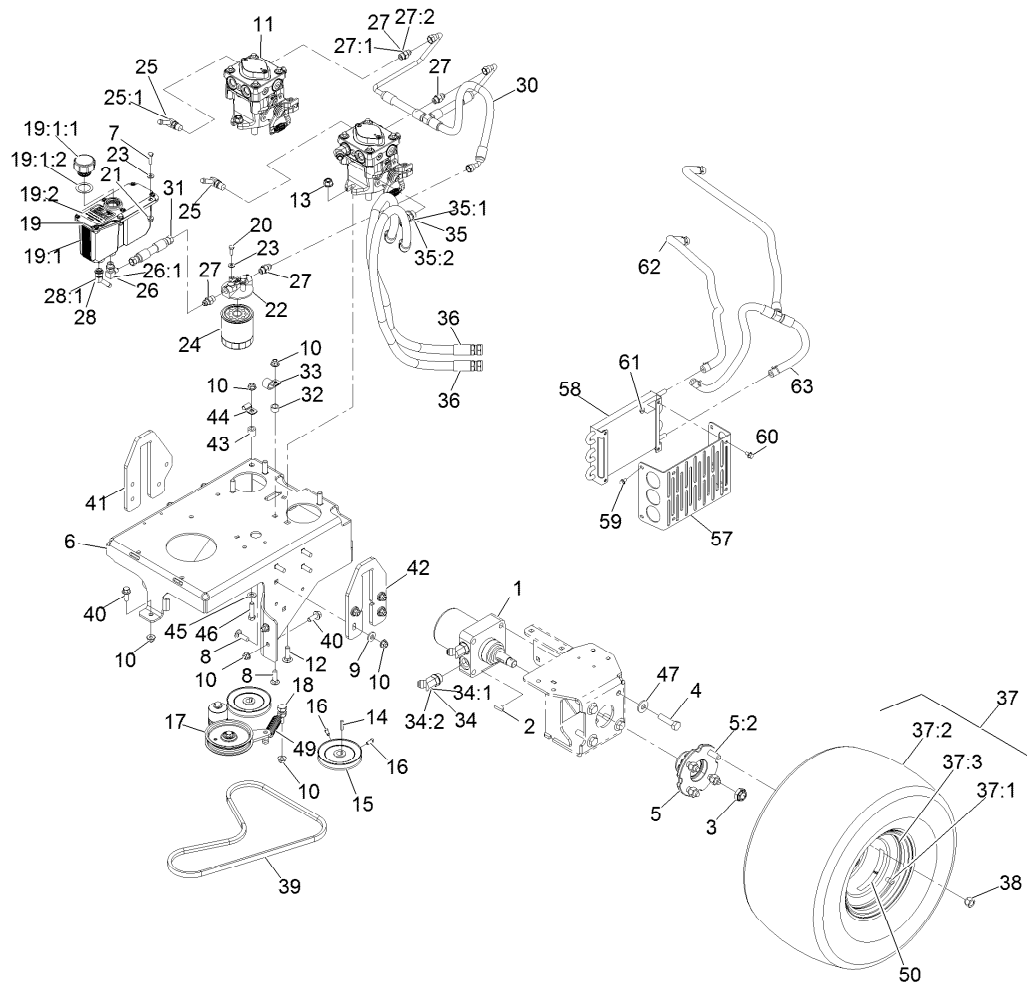
● Not serviced separately

▲ Use Exmark Premium Hydro Oil P/N 109-9828 (32oz)

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

| Ref. | Part Number | Qty. | Description                     |
|------|-------------|------|---------------------------------|
| 19:2 | 116-0404    | 1    | Decal-Hydraulic Tank            |
| 20   | 321-4       | 2    | Screw-HH 1/4-20 X 3/4           |
| 21   | 32128-32    | 2    | Nut-Hex 1/4-20 Side Lock        |
| 22   | 104-7836    | 1    | Filter-Head                     |
| 23   | 3256-22     | 4    | Washer-1/4 Sae                  |
| 24   | 109-4180    | 1    | Filter,25 Micron Bi-Directional |
| 25   | 100-4887    | 2    | Fitting-Barbed, 90 DEG          |
| 25:1 | 237-42      | 1    | O-Ring                          |
| 26   | 103-1802    | 1    | Fitting-HYD, 90 DEG             |
| 26:1 | 1-603921    | 1    | O-Ring-Sae #6                   |
| 27   | 103-2156    | 4    | Adapter-Straight                |
| 27:1 | 1-603921    | 1    | O-Ring-Sae #6                   |
| 27:2 | 103-1020    | 1    | O-Ring-37 Flare #6              |
| 28   | 103-1807    | 1    | Fitting-Barbed, 45 DEG          |
| 28:1 | 237-42      | 1    | O-Ring                          |
| 30   | 116-2650    | 1    | Hose Assembly - Charge          |
| 31   | 116-2604    | 1    | HYD Hose ASM                    |
| 32   | 1-653069    | 1    | Spacer-Wheel                    |
| 33   | 1-633396    | 1    | Clip-Loom 5/8                   |
| 34   | 1-523222    | 4    | Fitting-HYD, 45 DEG             |
| 34:1 | 1-603919    | 1    | O-Ring-Sae #10                  |
| 34:2 | 1-603992    | 1    | O-Ring-37 Flare #8              |
| 35   | 1-523221    | 4    | Fitting-HYD, 45 DEG             |

■ Apply anti-seize compound in bore.



## Ground Drive Assembly (continued)

| Ref. | Part Number | Qty. | Description          |
|------|-------------|------|----------------------|
| 35:1 | 1-603920    | 1    | O-Ring-Sae #8        |
| 35:2 | 1-603992    | 1    | O-Ring-37 Flare #8   |
| 36   | 116-6902    | 4    | HYD Hose ASM         |
| 37   | 120-6465    | 2    | Wheel/Tire ASM       |
| 37:1 | 116-4605    | 1    | Rim-8 Inch           |
| 37:2 | 120-6466    | 1    | Tire                 |
| 37:3 | 232-27      | 1    | Stem-Valve           |
| 38   | 242-50      | 8    | Nut-Lug 1/2-20       |
| 39   | 114567      | 1    | Belt-V               |
| 40   | 3234-42     | 5    | Screw HHF 3/8-16 X 1 |
| 41   | 116-4922    | 1    | Plate-Lift, RH       |
| 42   | 116-3546    | 1    | Plate, Lift LH       |
| 43   | 121-1760    | 1    | Spacer               |
| 44   | 116-3362    | 1    | Clip-Tube            |

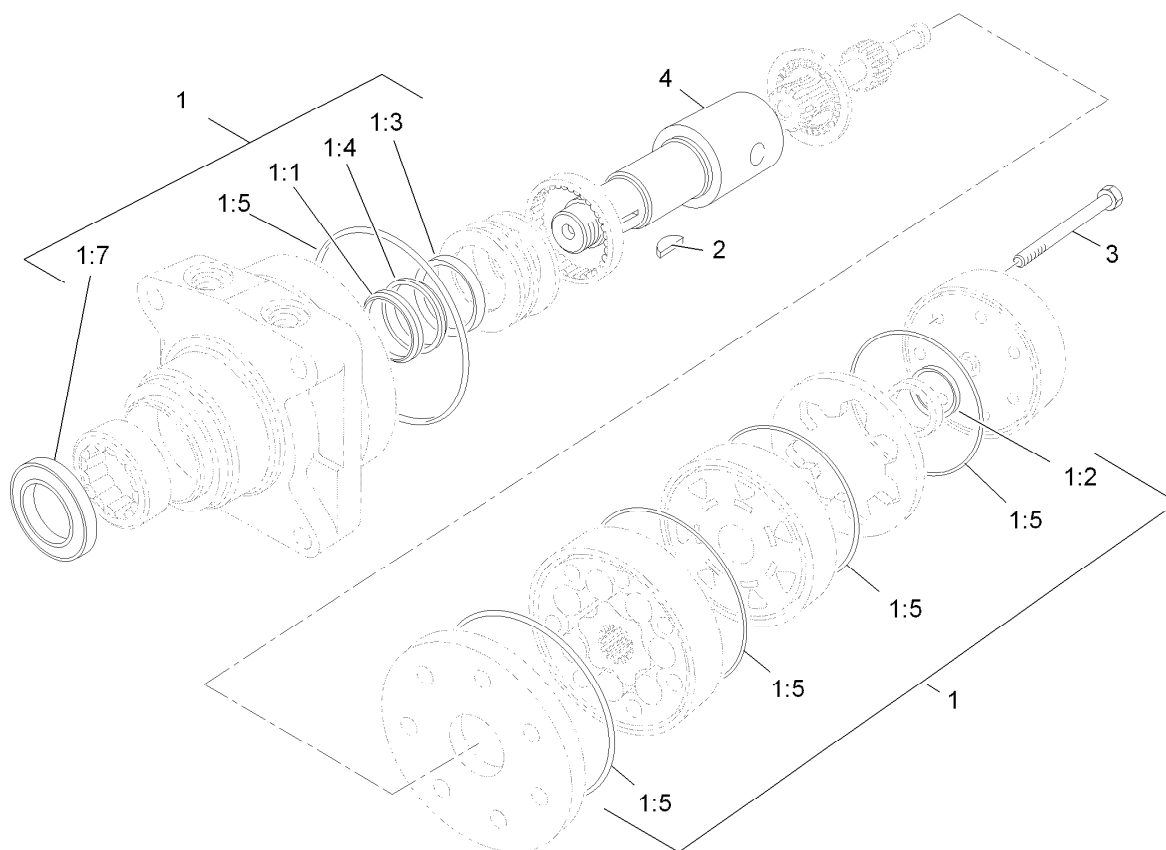
| Ref. | Part Number | Qty. | Description                       |
|------|-------------|------|-----------------------------------|
| 45   | 3256-24     | 1    | Washer-3/8 Sae                    |
| 46   | 323-8       | 1    | Screw-HH 3/8-16 X 1 1/2           |
| 47   | 1-513435    | 8    | Washer-Spring Disc 1/2            |
| 49   | 108-4056    | 1    | Spring-Extension                  |
| 50   | 116-4181    | 2    | Decal-Wheel Hub                   |
| 57   | 116-7497-01 | 1    | Bracket, Cooler Mounting          |
| 58   | 116-7274    | 1    | Cooler-Oil                        |
| 59   | 32144-4     | 4    | Screw-HWH 1/4-20 X 1/2<br>Taptite |
| 60   | 3234-13     | 4    | Screw-HHF                         |
| 61   | 32149-2     | 4    | Nut-Keps                          |
| 62   | 116-7338    | 1    | Hose-Hydraulic                    |
| 63   | 116-7427    | 1    | Hose ASM-HYD Lp 3/8               |

● Not serviced separately

▲ Use Exmark Premium Hydro Oil P/N 109-9828 (32oz)

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

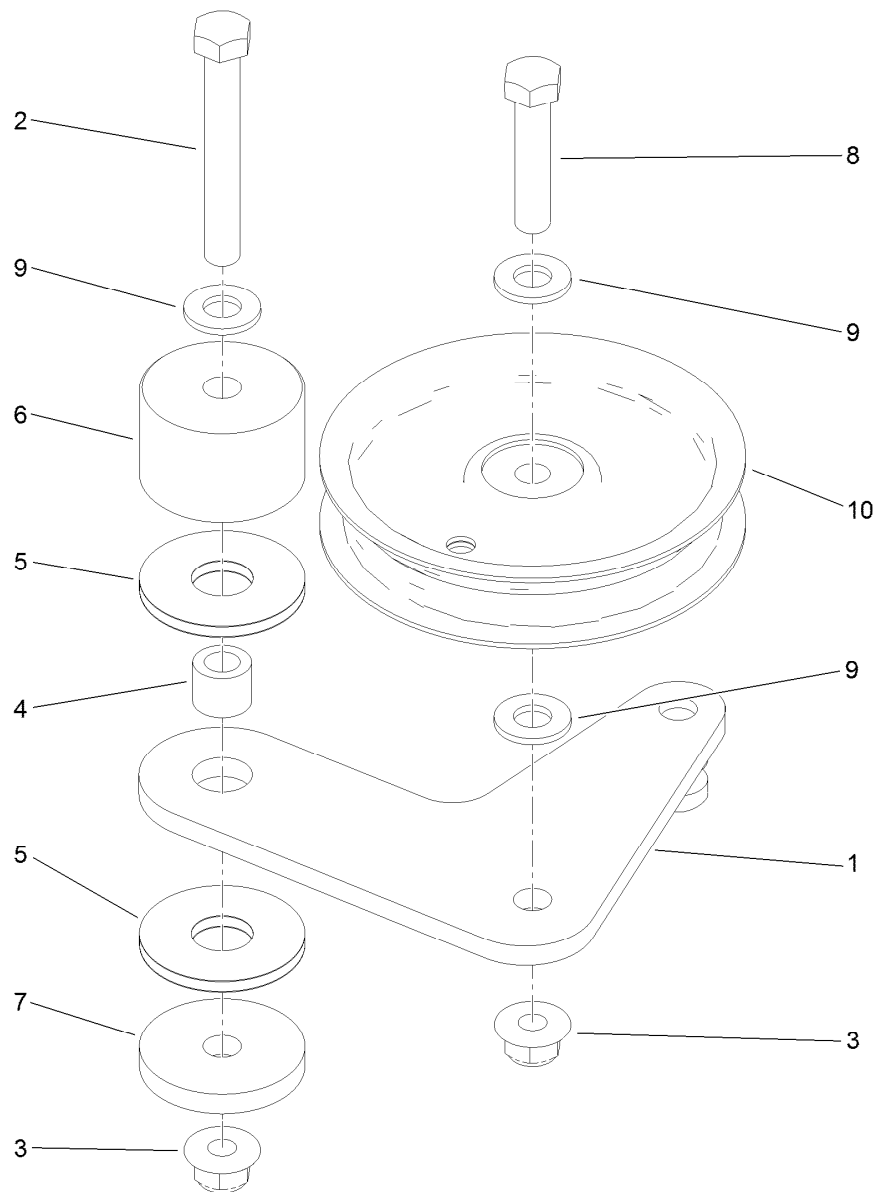
■ Apply anti-seize compound in bore.



## Wheel Motor Assembly No. 116-4851

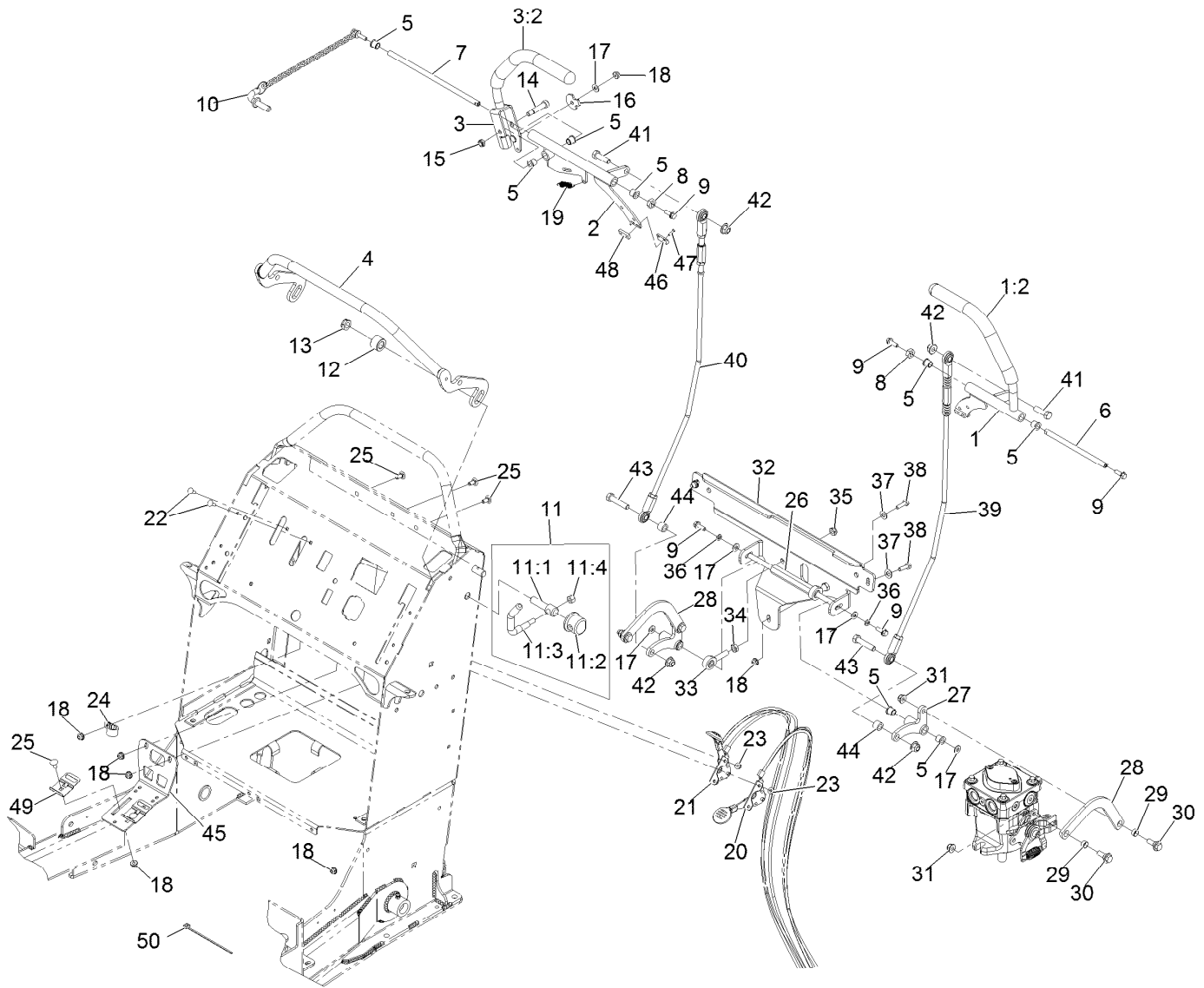
| Ref. | Part Number | Qty. | Description             |
|------|-------------|------|-------------------------|
| 1    | 1-000119    | 1    | Seal Kit                |
| 1:1  |             | 1    | Ring-Back Up ●          |
| 1:2  |             | 1    | Seal-Commutator ●       |
| 1:3  |             | 1    | Seal-Shaft (Viton) ●    |
| 1:4  |             | 1    | Washer-Back Up, Steel ● |
| 1:5  |             | 5    | Ring-Seal (Viton) ●     |
| 1:7  |             | 1    | Seal-Dirt And Water ●   |
| 2    | 3257-8      | 1    | Key-Woodruff            |
| 3    | 106-5549    | 6    | Bolt-Special            |
| 4    | 106-8764    | 1    | Shaft-Coupling          |

● Not serviced separately



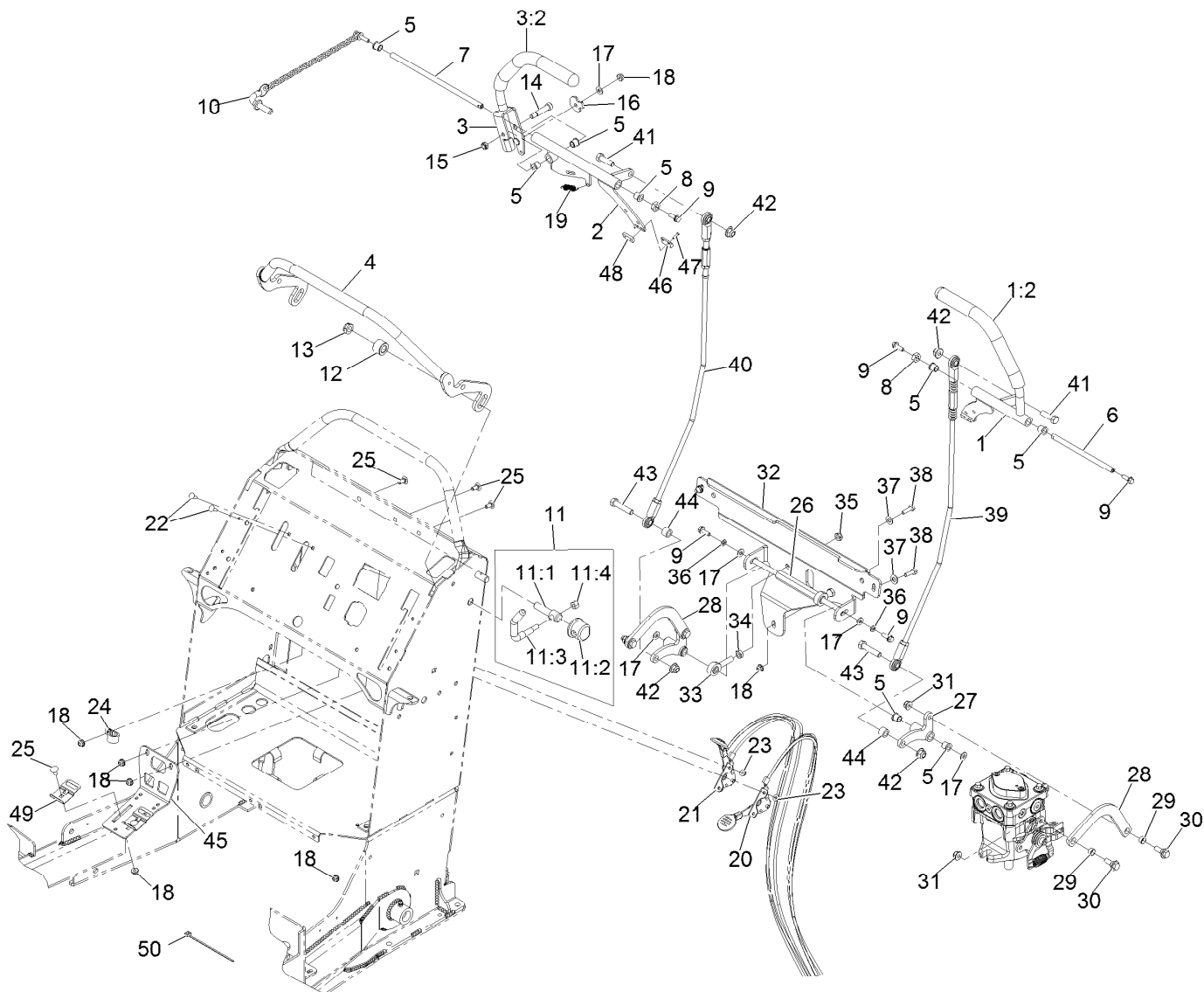
## Pump Idler Assembly No. 117-7685

| Ref. | Part Number | Qty. | Description                |
|------|-------------|------|----------------------------|
| 1    | 117-7684    | 1    | Idler Plate ASM            |
| 2    | 323-13      | 1    | Screw-HH                   |
| 3    | 104-8301    | 2    | Nut-Flange, NI             |
| 4    | 1-413088    | 1    | Bushing-Lever, Lift        |
| 5    | 114-0463    | 2    | Washer-Friction, Composite |
| 6    | 117-3568    | 1    | Hub-Idler                  |
| 7    | 110-9981    | 1    | Washer-Plain               |
| 8    | 323-9       | 1    | Screw-HH                   |
| 9    | 3256-24     | 3    | Washer-Flat                |
| 10   | 93-1622     | 1    | Pulley-Idler               |



## Control Assembly

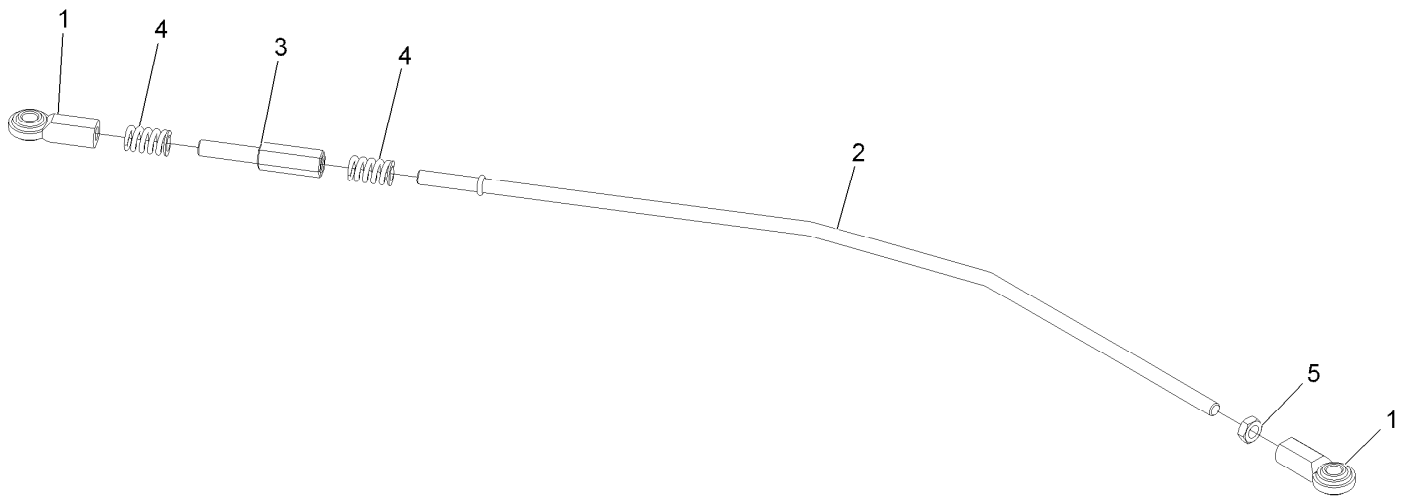
| Ref. | Part Number | Qty. | Description                     | Ref. | Part Number | Qty. | Description                      |
|------|-------------|------|---------------------------------|------|-------------|------|----------------------------------|
| 1    | 116-4970    | 1    | Lever ASM, LH                   | 14   | 114-0239    | 1    | Screw-Shoulder 5/16-18 X 1/2     |
| 1:2  | 116-2357    | 1    | Grip-Handle, Control            | 15   | 3296-47     | 1    | Nut-Nyloc 5/16-18 Thin           |
| 2    | 116-4972-03 | 1    | Motion Control ASM-RH           | 16   | 114-0268    | 1    | Cam-Lever                        |
| 3    | 116-2356    | 1    | Lever ASM, RH                   | 17   | 3256-22     | 5    | Washer-1/4 Sae                   |
| 3:2  | 116-2357    | 1    | Grip-Handle, Control            | 18   | 104-7201    | 9    | Nut-Nyloc 1/4-20 Flg             |
| 4    | 116-6985-03 | 1    | Tube ASM, Front Speed Control [ | 19   | 114-0249    | 1    | Spring-Extension                 |
| 5    | 103-9928    | 10   | Bearing                         | 20   | 116-4276    | 1    | Control-Throttle                 |
| 6    | 116-4978    | 1    | Shaft-Pivot, Motion Control     | 21   | 116-4277    | 1    | Control-Choke                    |
| 7    | 116-4979    | 1    | Shaft-Pivot, Motion Control     | 22   | 1-807533    | 4    | Bolt-Carriage #10-24 X 5/8       |
| 8    | 116-4198    | 2    | Spacer-Drive Lever Shaft        | 23   | 32128-17    | 4    | Nut-Lock, Flange                 |
| 9    | 117-8304    | 5    | Screw-Hex Flange 1/4-20 X 3/4   | 24   | 2412-87     | 1    | Clamp-Cable                      |
| 10   | 114-0409    | 1    | HOC Pin ASM                     | 25   | 3229-11     | 5    | Bolt-Carriage 1/4-20 X 5/8       |
| 11   | 107-1664    | 2    | Lever ASM                       | 26   | 116-3119    | 1    | Shaft-Bellcrank Pivot            |
| 11:1 | 106-3239    | 1    | Screw-Lock                      | 27   | 116-4975    | 2    | Bellcrank-Control, Motion        |
| 11:2 | 107-1644    | 1    | Cap-Lock                        | 28   | 116-4973    | 2    | Link-Bellcrank, Pump             |
| 11:3 | 106-3241    | 1    | Lever-Lock                      | 29   | 116-4976    | 4    | Bushing-Sleeve                   |
| 11:4 | 3296-29     | 1    | Nut-Nyloc 5/16-18               | 30   | 116-2670    | 4    | Screw-Shoulder HHF 5/16-18 X .96 |
| 12   | 116-2319    | 2    | Spacer-Clamp                    | 31   | 104-8300    | 4    | Nut-Nyloc 5/16-18 Flg            |
| 13   | 3296-45     | 2    | Nut-Nyloc 1/2-13 Thin           | 32   | 116-3202-03 | 1    | Bracket-Bellcrank                |



## Control Assembly (continued)

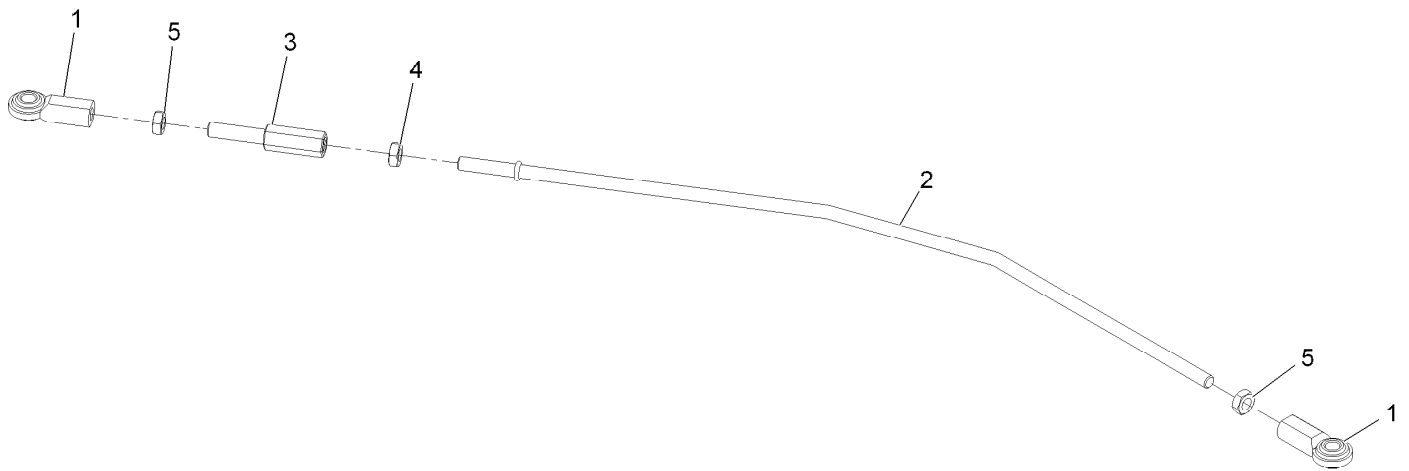
| Ref. | Part Number | Qty. | Description                  |
|------|-------------|------|------------------------------|
| 33   | 1-613204    | 2    | Balljoint                    |
| 34   | 3220-3      | 2    | Nut-Jam 3/8-24               |
| 35   | 3296-5      | 2    | Nut-Nyloc 3/8-24 Thin        |
| 36   | 3253-3      | 2    | Washer-Lock 1/4              |
| 37   | 3256-23     | 3    | Washer-5/16 Sae              |
| 38   | 321-5       | 3    | Screw-HH 1/4-20 X 7/8        |
| 39   | 116-4936    | 1    | Linkage-Tracking Control, LH |
| 40   | 116-4937    | 1    | Linkage-Tracking Control, RH |
| 41   | 323-7       | 2    | Screw-HH 3/8-16 X 1 1/4      |

| Ref. | Part Number | Qty. | Description                  |
|------|-------------|------|------------------------------|
| 42   | 104-8301    | 4    | Nut-Nyloc 3/8-16 Flg         |
| 43   | 323-9       | 2    | Screw-HH 3/8-16 X 1 3/4      |
| 44   | 52-2480     | 2    | Spacer-Wheel                 |
| 45   | 116-4572    | 1    | Bracket, Reed Switch         |
| 46   | 116-2832    | 2    | Actuator-Switch, Reed        |
| 47   | 116-3330    | 4    | Screw-HH #4-40 X 1/2 W/Nylon |
| 48   | 116-3227    | 2    | Plate-Tapped                 |
| 49   | 116-4573    | 2    | Clamp, Reed Switch           |
| 50   | 3290-378    | 1    | Tie-Cable                    |



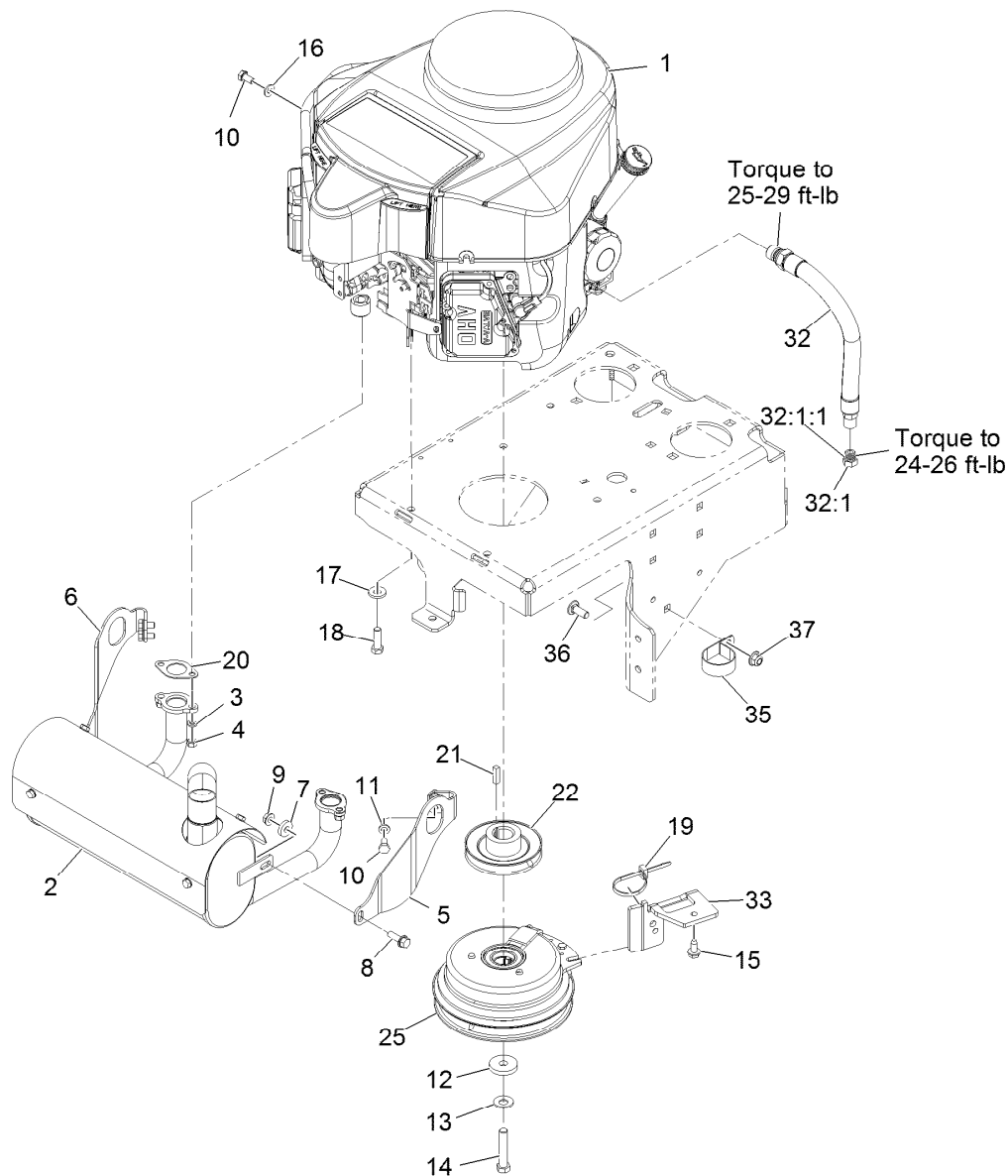
## LH Tracking Control Linkage Assembly No. 116-4936

| <i>Ref.</i> | <i>Part Number</i> | <i>Qty.</i> | <i>Description</i>        |
|-------------|--------------------|-------------|---------------------------|
| 1           | 103-0608           | 2           | Balljoint                 |
| 2           | 116-4938           | 1           | Link-Lower,Motion Control |
| 3           | 116-4755           | 1           | Rod-Adjustment            |
| 4           | 116-7560           | 2           | Spring-Compression        |
| 5           | 3220-3             | 1           | Nut-Jam 3/8-24            |



## RH Tracking Control Linkage Assembly No. 116-4937

| <i>Ref.</i> | <i>Part Number</i> | <i>Qty.</i> | <i>Description</i>        |
|-------------|--------------------|-------------|---------------------------|
| 1           | 103-0608           | 2           | Balljoint                 |
| 2           | 116-4938           | 1           | Link-Lower,Motion Control |
| 3           | 116-4755           | 1           | Rod-Adjustment            |
| 4           | 3220-16            | 1           | Nut-Jam 3/8-24 LH         |
| 5           | 3220-3             | 2           | Nut-Jam 3/8-24            |



## Engine Assembly

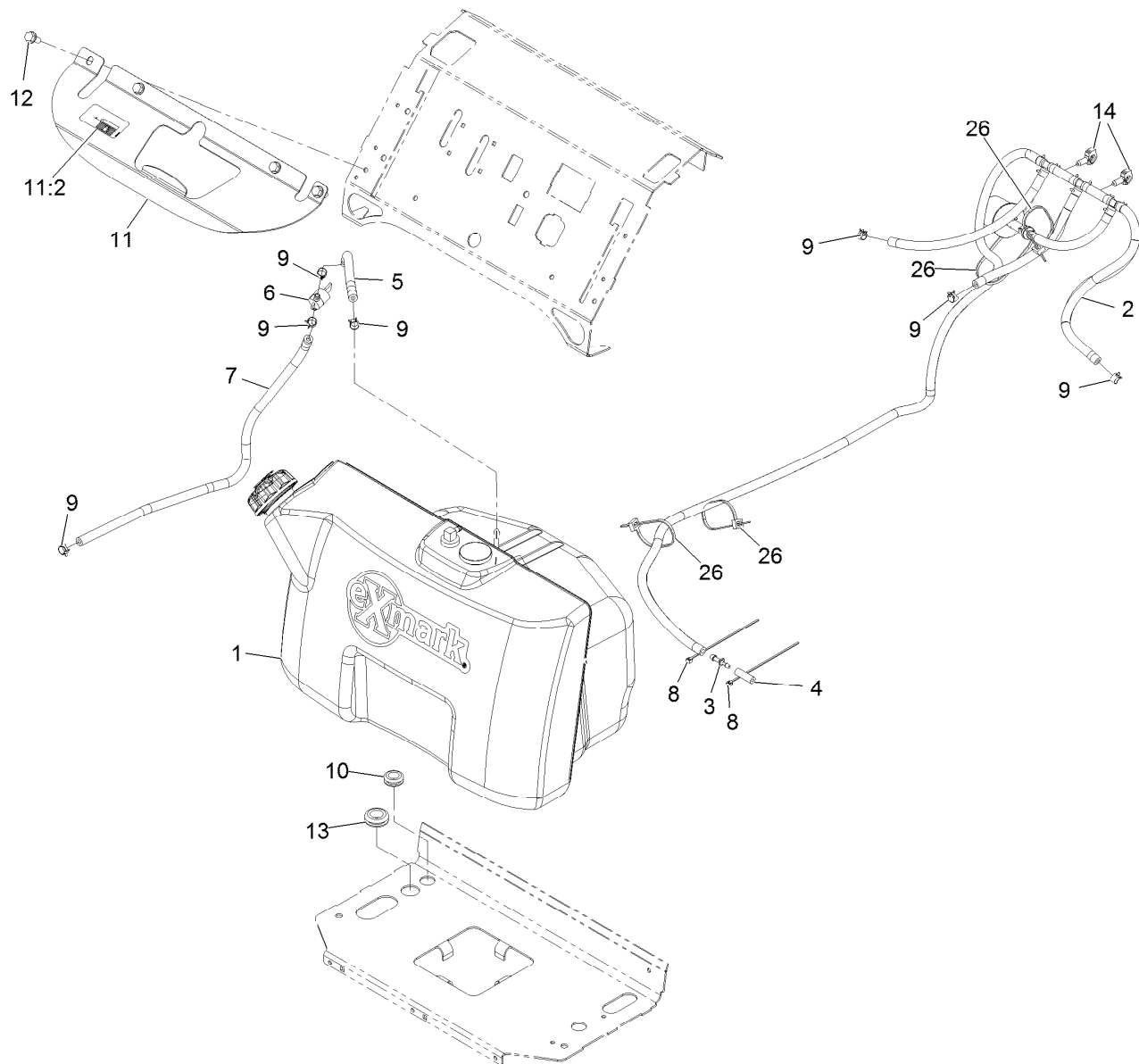
| Ref. | Part Number | Qty. | Description                   |
|------|-------------|------|-------------------------------|
| 1    |             | 1    | Engine-Kawasaki ●■            |
| 2    | 116-2352    | 1    | Muffler                       |
| 3    | 114-3550    | 4    | Washer-Lock, Spring           |
| 4    | 114-3549    | 4    | Nut-M8                        |
| 5    | 116-2353    | 1    | Bracket-Muffler Mount, LH     |
| 6    | 116-2354    | 1    | Bracket-Muffler Mount, RH     |
| 7    | 104-7658    | 2    | Spacer                        |
| 8    | 3234-29     | 2    | Screw-HH Flg 5/16-18 X 1      |
| 9    | 32128-25    | 2    | Nut-Hex 5/16-18 Side Lock     |
| 10   | 33114-016   | 5    | Screw-HH M8-1.25 X 16Mm       |
| 11   | 3253-4      | 4    | Washer-Lock 5/16              |
| 12   | 107-4136    | 1    | Washer                        |
| 13   | 1-603610    | 1    | Washer-Spring Disc 7/16       |
| 14   | 3212-9      | 1    | Screw-HH 7/16-20 X 2 1/4 ▲    |
| 15   | 32144-70    | 1    | Screw-HWH 5/16-18 X 3/4<br>Tf |

| Ref.   | Part Number | Qty. | Description               |
|--------|-------------|------|---------------------------|
| 16     | 33094-00    | 1    | Washer                    |
| 17     | 98-5975     | 4    | Washer-Spring Disc 3/8    |
| 18     | 323-7       | 4    | Screw-HH 3/8-16 X 1 1/4   |
| 19     | 3290-378    | 1    | Tie-Cable                 |
| 20     | 1-653313    | 2    | Gasket-Exhaust            |
| 21     | 1-807259    | 1    | Key-Machine 1/4 X 1/4 X 1 |
| 22     | 116-3610    | 1    | Pulley                    |
| 25     | 116-3553    | 1    | Clutch-Warner             |
| 32     | 116-4924    | 1    | Asm-Hose Oil Drain W/Plug |
| 32:1   | 353-508     | 1    | Plug-W/O-Ring             |
| 32:1:1 | 237-42      | 1    | O-Ring                    |
| 33     | 116-3811-01 | 1    | Bracket-Clutch Anchor     |
| 35     | 2412-147    | 1    | Clamp                     |
| 36     | 3231-22     | 1    | Bolt-Carriage 3/8-16 X 1  |
| 37     | 104-8301    | 1    | Nut-Nyloc 3/8-16 Flg      |

● Not serviced separately

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

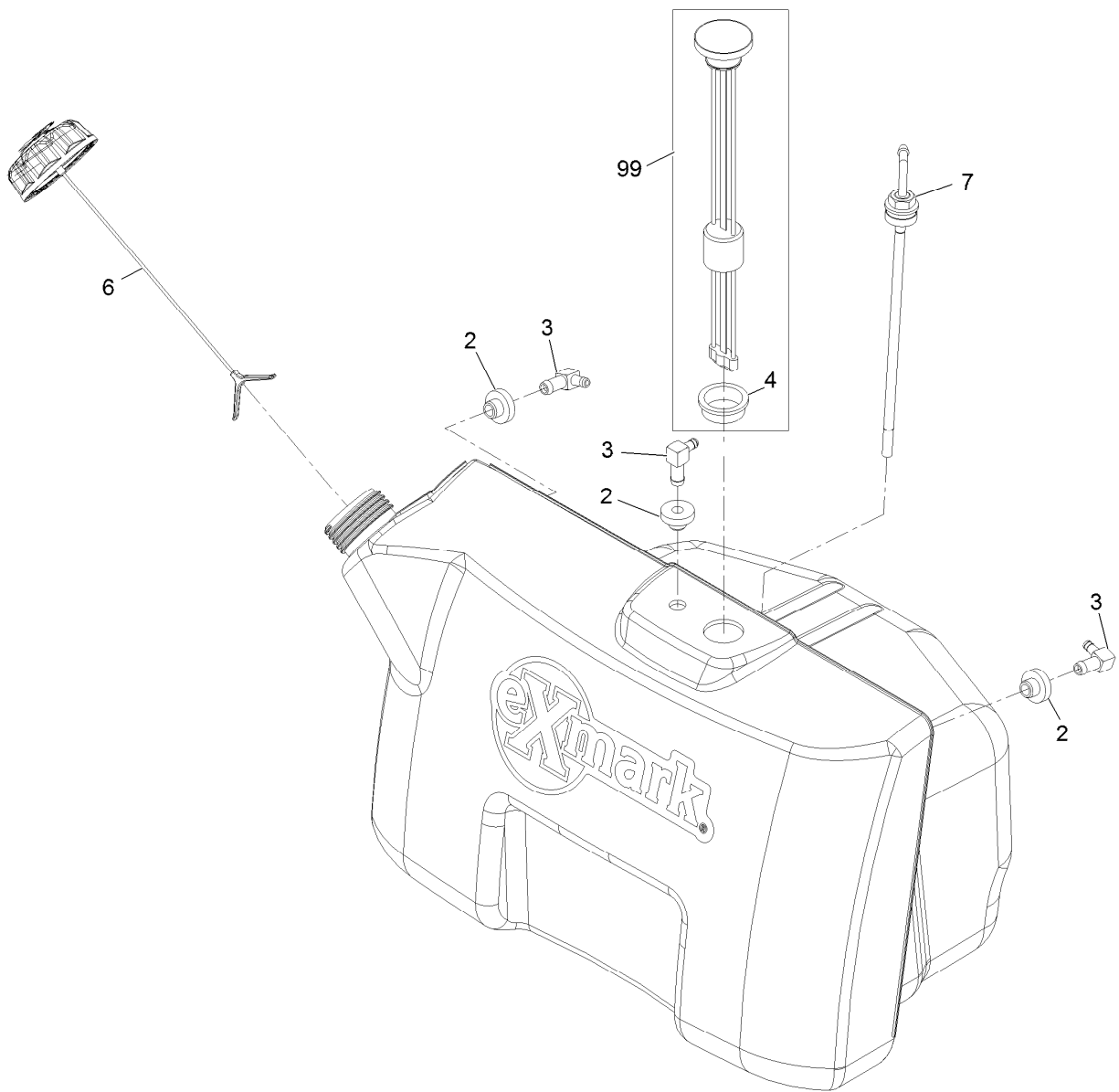
■ Obtain parts from [www.kawpowerepc.com](http://www.kawpowerepc.com)



## Fuel Tank Mounting Assembly

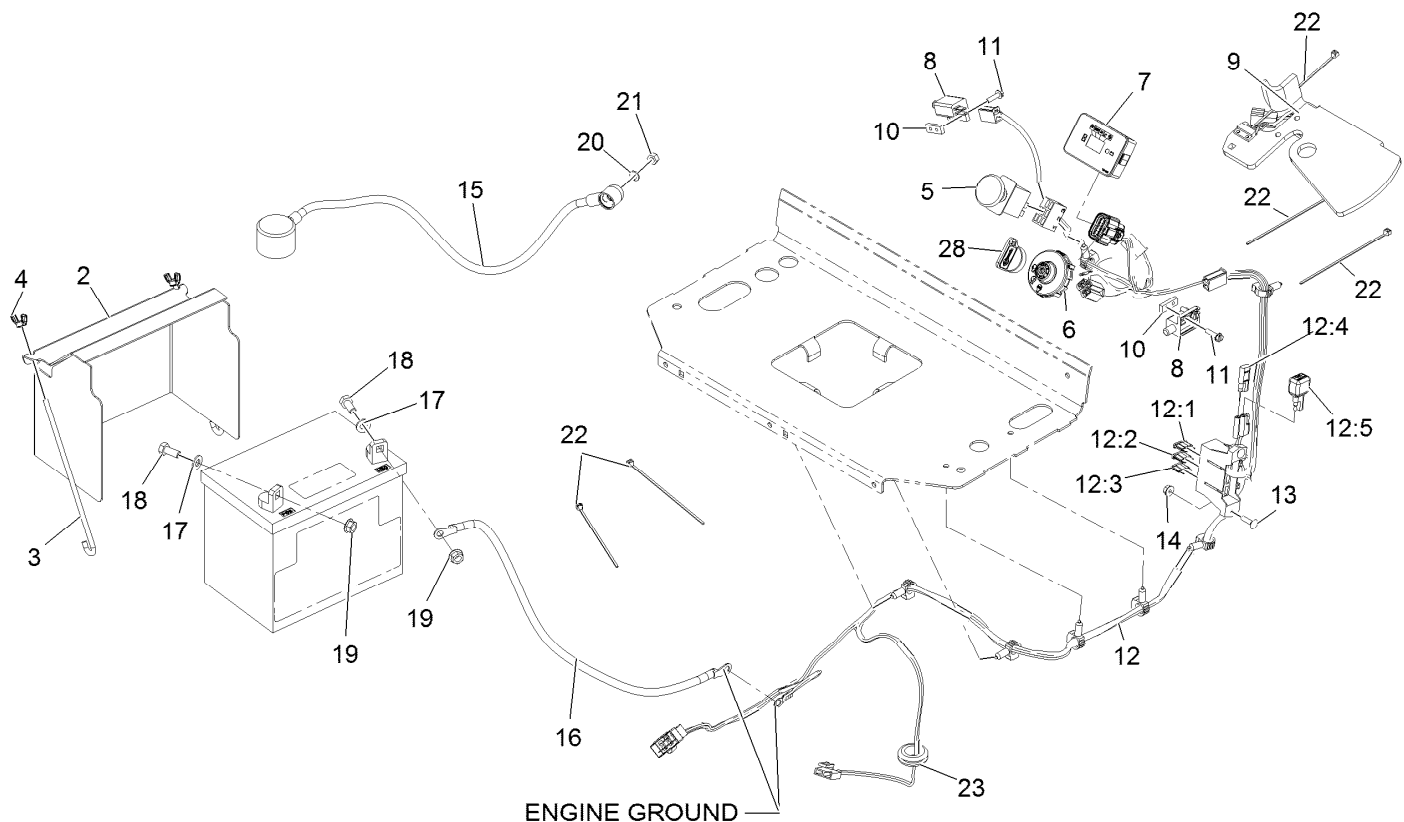
| Ref. | Part Number | Qty. | Description             |
|------|-------------|------|-------------------------|
| 1    | 116-4577    | 1    | Tank ASM- Exmark        |
| 2    | 116-5096    | 1    | Vent ASM                |
| 3    | 106-8150    | 1    | Fitting-Straight        |
| 4    | 51-3216     | 1    | Hose-Fuel               |
| 5    | 107-9297    | 1    | Hose-Fuel               |
| 6    | 1-603770    | 1    | Valve-Fuel              |
| 7    | 109-0301    | 1    | Hose-Fuel               |
| 8    | 1-303287    | 2    | Tie-Cable 5 1/2 (Small) |
| 9    | 2412-98     | 7    | Clamp-Hose              |

| Ref. | Part Number | Qty. | Description                |
|------|-------------|------|----------------------------|
| 10   | 112-7069    | 1    | Grommet                    |
| 11   | 116-3088    | 1    | Bracket-Tank               |
| 11:2 | 116-3290    | 1    | Decal-Fill, Fuel           |
| 12   | 32144-11    | 4    | Screw-HWH 5/16-18 X 3/4 Tf |
| 13   | 117-2781    | 1    | Grommet                    |
| 14   | 32180-040   | 2    | Clip-Harness               |
| 26   | 3290-378    | 4    | Tie-Cable                  |



## Fuel Tank Assembly No. 116-4577

| Ref. | Part Number | Qty. | Description                        |
|------|-------------|------|------------------------------------|
| 2    | 46-6560     | 3    | Bushing                            |
| 3    | 1-643172    | 3    | Elbow-90 DEG                       |
| 4    | 95-8972     | 1    | Grommet                            |
| 6    | 116-1704    | 1    | Cap-Fuel, Ratcheting               |
| 7    | 116-3408    | 1    | Fitting-Fuel, Bulkhead             |
| 99   | 116-7264    | 1    | Kit, Vantage Fuel Gage Replacement |



## Electrical Assembly

| Ref. | Part Number | Qty. | Description            |
|------|-------------|------|------------------------|
| 2    | 117-0543-01 | 1    | Cover-Battery          |
| 3    | 1-633651    | 2    | Bolt-Holddown          |
| 4    | 1-543792    | 2    | Wingnut-Nyloc 1/4-20   |
| 5    | 114-0279    | 1    | Switch-PTO             |
| 6    | 117-2222    | 1    | Switch-Ignition        |
| 7    | 117-3886    | 1    | Module-Hour Meter      |
| 8    | 1-513152    | 2    | Switch-N.C.            |
| 9    | 116-2833    | 1    | Harness-Switch, Reed   |
| 10   | 1-633181    | 2    | Plate-Tapped           |
| 11   | 32105-13    | 4    | Screw-HWH #10-24 X 3/4 |
| 12   | 116-4615    | 1    | Harness-Wire ●         |
| 12:1 | 109103      | 1    | Fuse-Blade, 30 Amp     |
| 12:2 | 109102      | 1    | Fuse-Blade, 25 Amp     |
| 12:3 | 218-578     | 1    | Fuse-Blade, 10 Amp     |

| Ref. | Part Number | Qty. | Description             |
|------|-------------|------|-------------------------|
| 12:4 | 116-0053    | 1    | Cap-Plug                |
| 12:5 | 103-3895    | 1    | Diode-Tvs               |
| 13   | 3229-20     | 2    | Screw-CARR              |
| 14   | 3290-148    | 2    | Nut-Whizlock #10-24     |
| 15   | 115-3864    | 1    | Cable-Battery, Positive |
| 16   | 105-0836    | 1    | Cable-Battery, Black    |
| 17   | 3256-23     | 2    | Washer-5/16 Sae         |
| 18   | 322-3       | 2    | Screw-HH 5/16-18 X 3/4  |
| 19   | 109-5715    | 2    | Nut-Hex Flange 5/16-18  |
| 20   | 3253-3      | 1    | Washer-Lock 1/4         |
| 21   | 3217-5      | 1    | Nut-Hex 1/4-20          |
| 22   | 1-303287    | 5    | Tie-Cable 5 1/2 (Small) |
| 23   | 117-2781    | 1    | Grommet                 |
| 28   | 103-2106    | 1    | Key-Exmark Logo         |

● Use dielectric grease on all unsealed connectors and terminals only. Do not apply in sealed connectors.

## 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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Beatrice, NE 68310  
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Part No. 4500-981 Rev. B  
(402) 223-6300  
Fax (402) 223-5489  
Printed in the USA.

