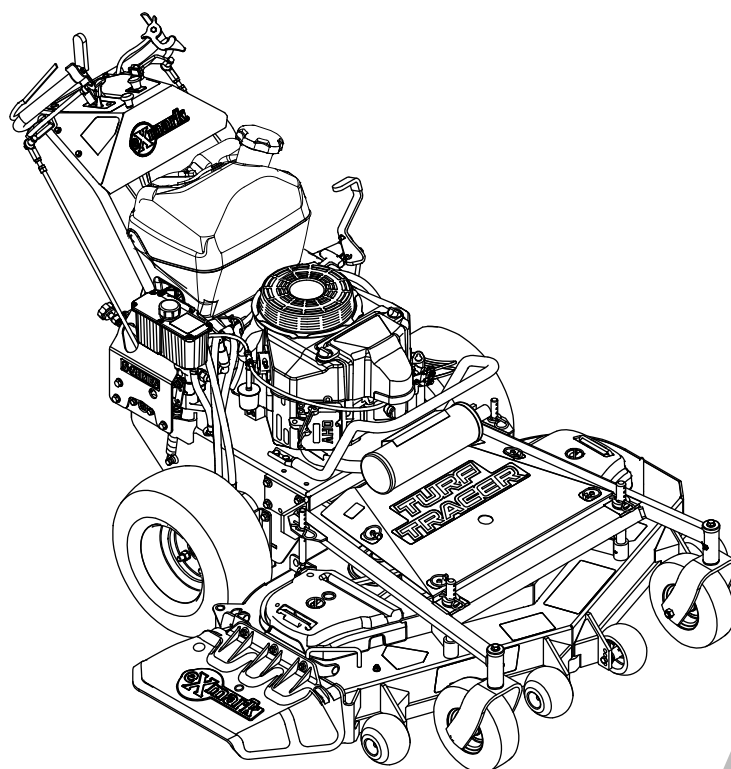




# **TURF TRACER® X-SERIES**

Model No. TTX650EKC60400—Serial No. 400000000 and Up

Picture below may not reflect actual product.



# **Parts Manual**

Part No. 4502-994 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.

# 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).

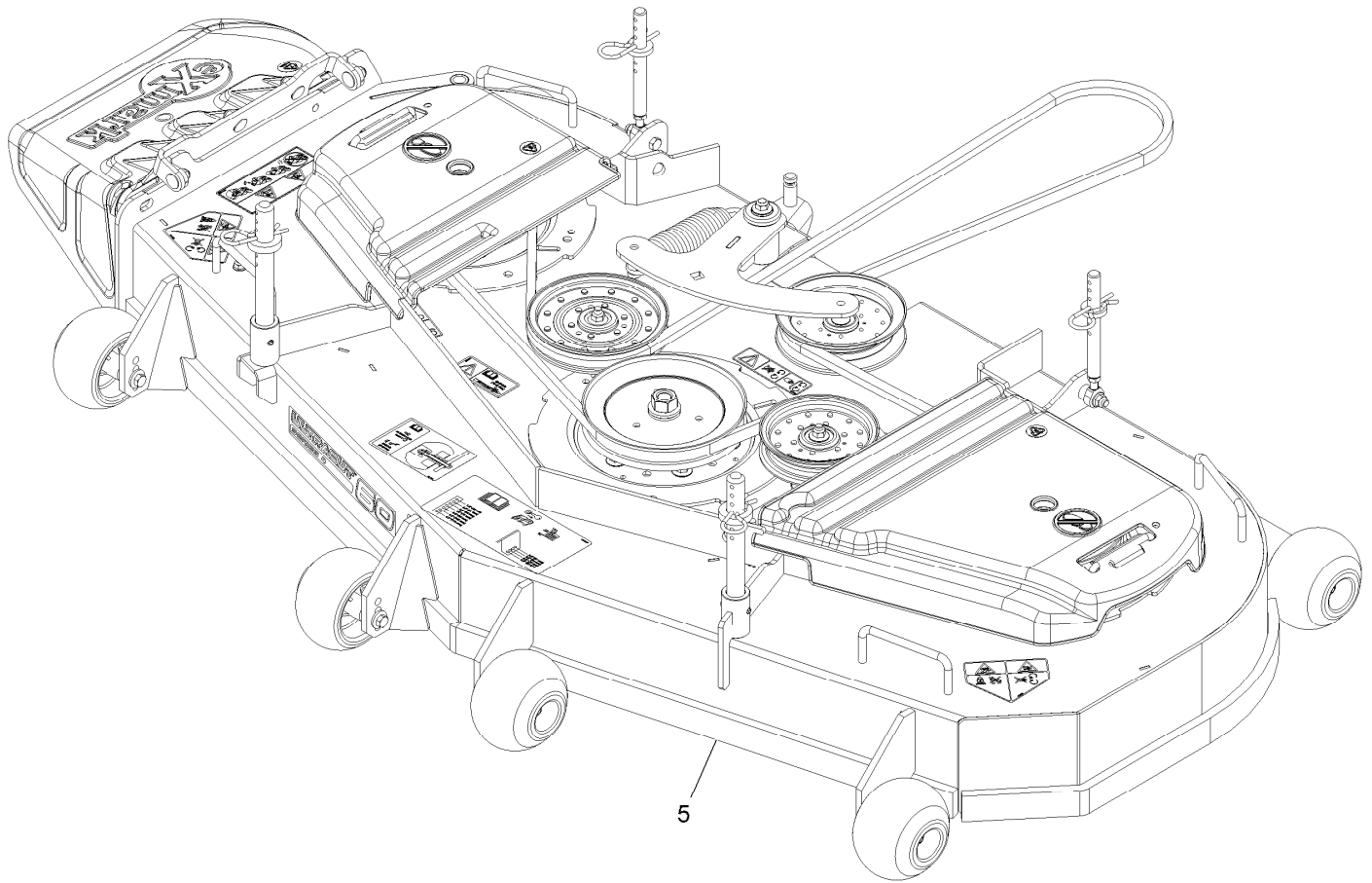


If your Exmark dealer does not have the Exmark part in stock, Exmark will get the parts to the dealer the next business day or the part will be FREE Guaranteed!! (Some restrictions apply. See your participating Exmark Dealer for details.)

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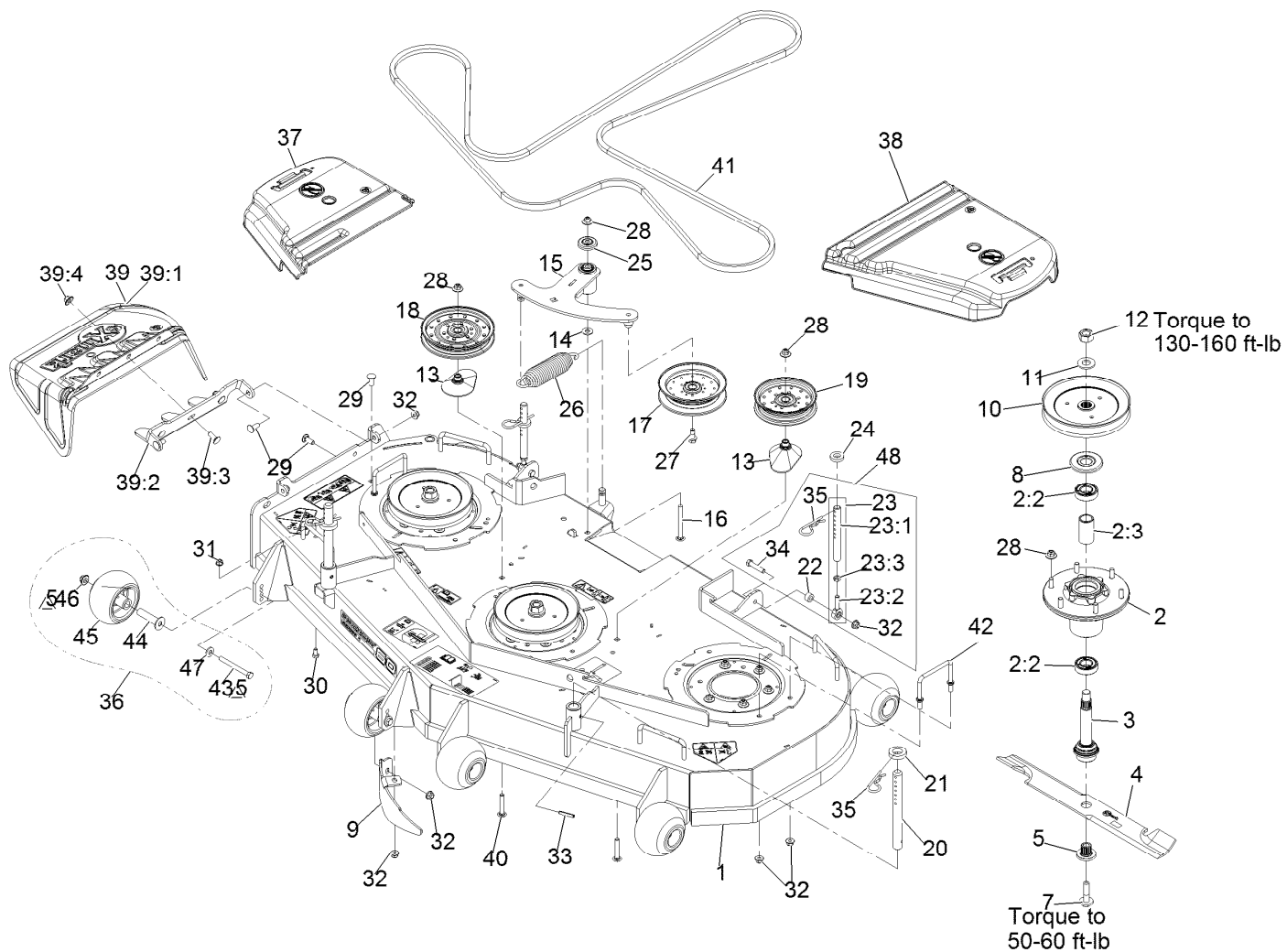
# Complete Deck Assembly



## Complete Deck Assembly (continued)

| <i>Ref.</i> | <i>Part Number</i> | <i>Qty.</i> | <i>Description</i>     |
|-------------|--------------------|-------------|------------------------|
| 5           | 126-2537           | 1           | ASM, Complete Deck, 60 |

# Deck Assembly



Apply lubricant to threads as needed to prevent seizing. Copper based antiseize preferable. Grease is an acceptable substitute.

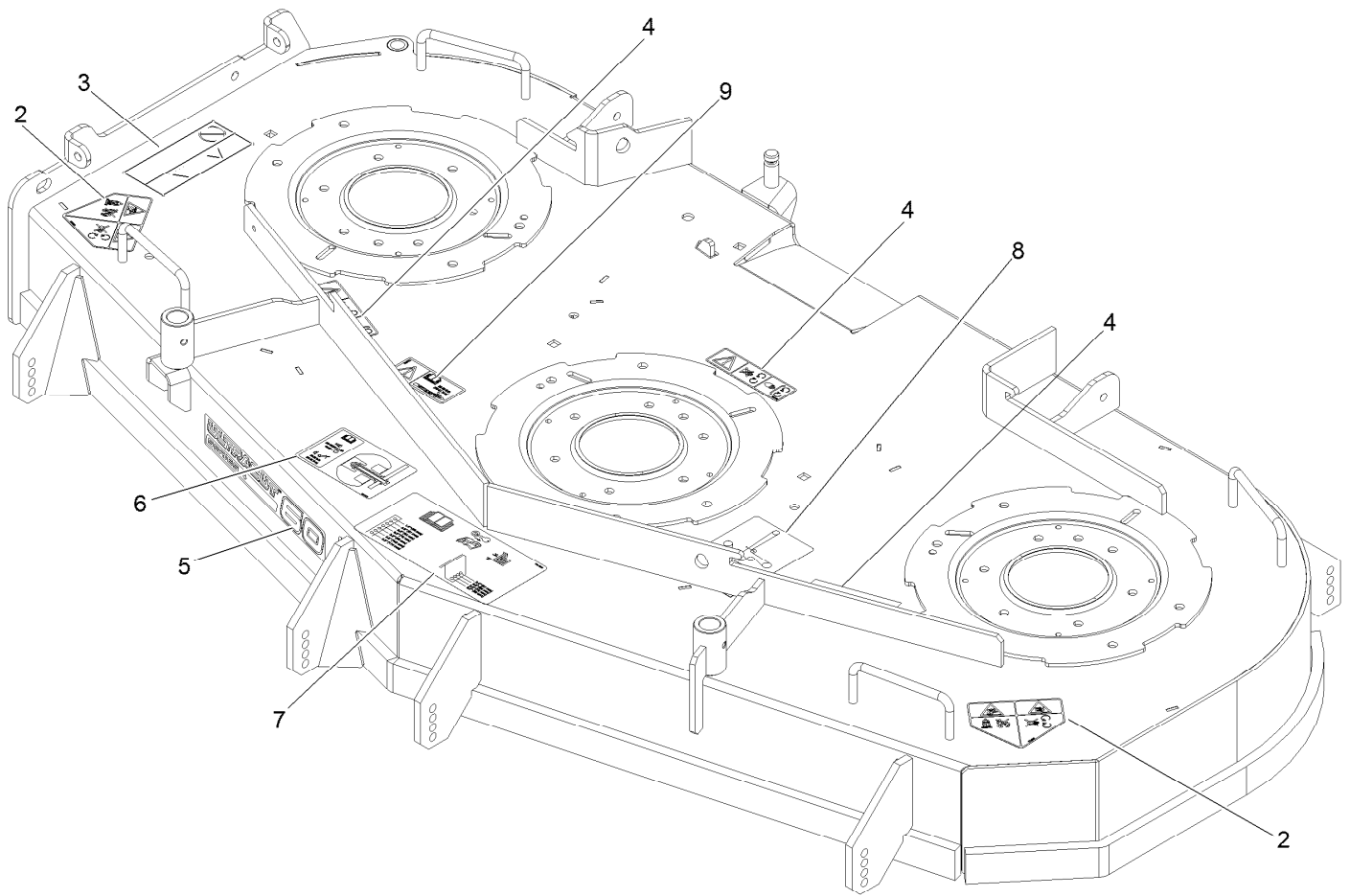
## Deck Assembly (continued)

| <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           | 126-2570           | 1           | ASM, Deck W/ Decals, 60"     | 23:3        | 3220-3             | 1           | Nut-Jam 3/8-24               |
| 2           | 116-3344           | 3           | ASM-Cutter Hsg With Bearings | 24          | 1-323539           | 2           | Spacer-Blade Drive           |
| 2:2         | 116-0720           | 2           | Bearing-Ball                 | 25          | 103-2916           | 1           | Guard-Top                    |
| 2:3         | 116-3312           | 1           | Spacer-Bearing               | 26          | 116-6317           | 1           | Spring-Extension             |
| 3           | 116-3341           | 3           | ASM-Spindle And Seal ■       | 27          | 126-1680           | 1           | Screw-Hfh                    |
| 4           | 116-5174           | 3           | Blade-Extreme 2, 20.50"      | 28          | 109-6658           | 21          | Nut-Nyloc 3/8-16 Flg         |
| 4           | 103-6403           | 3           | Blade, Notched               | 29          | 3231-22            | 4           | Bolt-Carriage 3/8-16 X 1     |
| 4           | 103-6393           | 3           | Blade, Mulching ●            | 30          | 322-2              | 1           | Screw-HH 5/16-18 X 5/8       |
| 4           | 103-6388           | 3           | Blade, Low Lift              | 31          | 104-8300           | 1           | Nut-Nyloc 5/16-18 Flg        |
| 4           | 103-6383           | 3           | Blade, Solid                 | 32          | 104-8301           | 10          | Nut-Nyloc 3/8-16 Flg         |
| 5           | 103-3037           | 3           | Bushing, Splined             | 33          | 1-806332           | 2           | Rollpin 1/4 X 1 1/2          |
| 7           | 109-9220           | 3           | Screw-Sems 1/2-20 X 2.19     | 34          | 323-9              | 2           | Screw-HH 3/8-16 X 1 3/4      |
| 8           | 116-1286           | 3           | Guard,Bearing Top .989       | 35          | 1-806009           | 4           | Hairpin-Cotter #206          |
| 9           | 116-5614-01        | 1           | Dogleg - Lz60                | 36          | 116-9981           | 6           | Kit, Anti-Scalp Roller       |
| 10          | 116-0676           | 3           | Sheave,Blade Drive 7.25      | 37          | 116-0094           | 1           | Cover-Belt, RH               |
| 11          | 103-2802           | 3           | Washer-Spring Disc 3/4       | 38          | 109-6938           | 1           | Cover-Belt, LH               |
| 12          | 116-7306           | 3           | Nut-Hex                      | 39          | 109-7188           | 1           | ASM,Discharge Chute          |
| 13          | 109-2872           | 2           | Spacer-Pulley                | 39:1        | 109-2738           | 1           | Chute, Discharge             |
| 14          | 3256-4             | 1           | Washer-3/8 Std               | 39:2        | 109-8675-01        | 1           | Bracket,Discharge Chute      |
| 15          | 126-2314           | 1           | ASM, Deck Idler              | 39:3        | 3231-22            | 3           | Bolt-Carriage 3/8-16 X 1     |
| 16          | 3231-24            | 1           | Bolt-Carriage 3/8-16 X 3 3/4 | 39:4        | 109-6658           | 3           | Nut-Nyloc 3/8-16 Flg         |
| 17          | 116-4668           | 1           | Idler-Pulley, Flanged        | 40          | 3231-40            | 2           | Bolt-Carriage 3/8-16 X 2 1/4 |
| 18          | 116-4667           | 1           | Idler-Pulley, Flat           | 41          | 126-2539           | 1           | Belt, Deck Drive             |
| 19          | 116-4665           | 1           | Idler-Pulley, Flat           | 42          | 109-6982           | 2           | Wireform-Cover               |
| 20          | 1-603001           | 2           | Rod, Deck Support            | 43          | 116-9362           | 6           | Screw-HH 3/8-16 X 3 3/4 GR 8 |
| 21          | 1-413425           | 2           | Spacer-Deck Support          | 44          | 116-8131           | 6           | Axle, Roller                 |
| 22          | 1-603050           | 2           | Spacer                       | 45          | 103-8415           | 6           | Roller-Anti-Scalp            |
| 23          | 1-414521           | 2           | Link Assy                    | 46          | 109-6658           | 6           | Nut-Nyloc 3/8-16 Flg         |
| 23:1        | 1-413525           | 1           | Link, Rear Deck Support      | 47          | 98-5975            | 6           | Washer-Spring Disc 3/8       |
| 23:2        | 1-613204           | 1           | Balljoint                    | 48          | 1-411532           | 2           | Kit, Support Link W/Pin      |

● 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. 126-2570

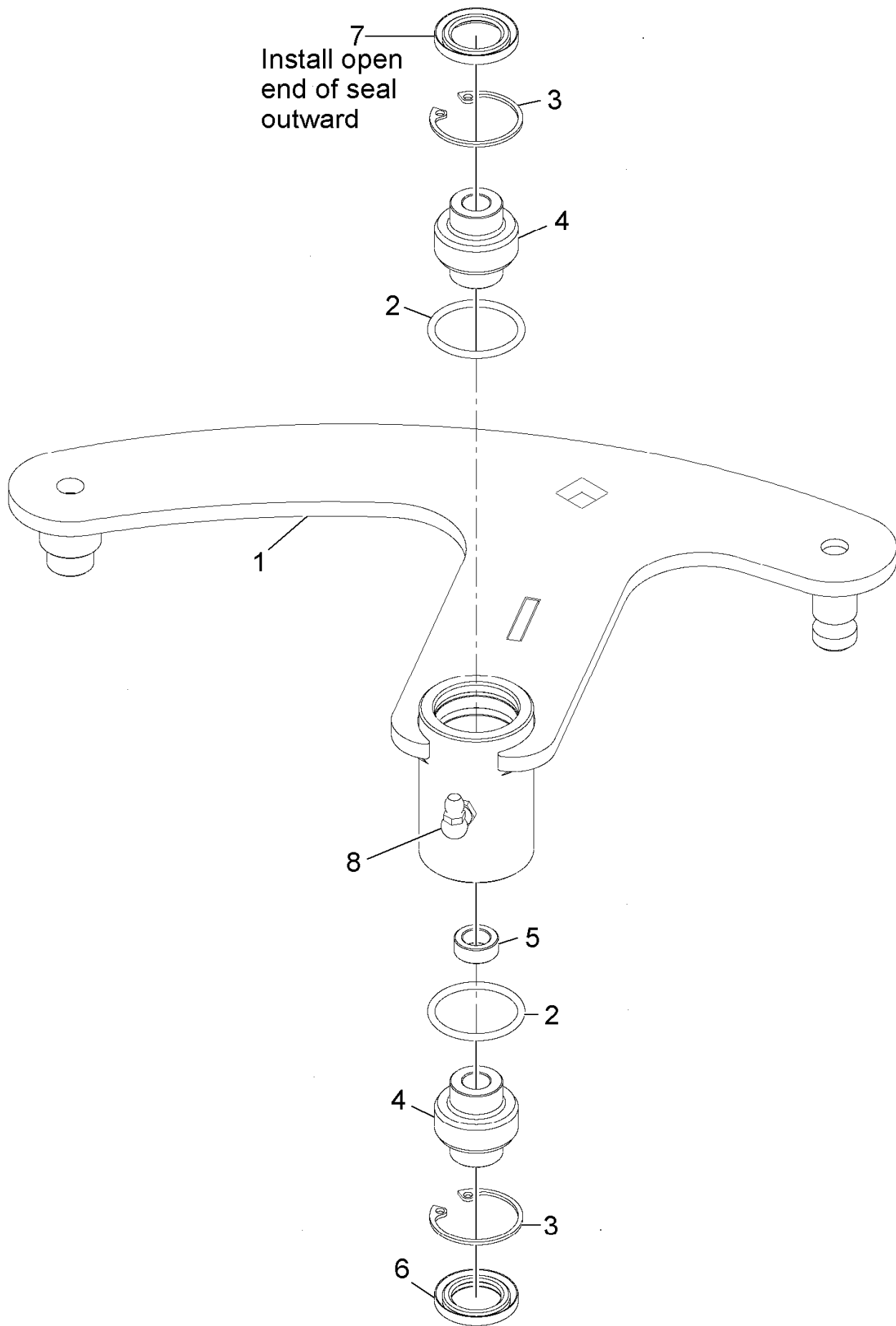


## Deck W/Decals Assembly No. 126-2570 (continued)

| <i>Ref.</i> | <i>Part Number</i> | <i>Qty.</i> | <i>Description</i>    |
|-------------|--------------------|-------------|-----------------------|
| 2           | 112-8760           | 2           | Decal-Danger          |
| 3           | 114-3489           | 1           | Decal-Warning, Bagger |
| 4           | 112-9028           | 3           | Decal-Missing, Cover  |
| 5           | 126-6589           | 1           | Decal, 604            |

| <i>Ref.</i> | <i>Part Number</i> | <i>Qty.</i> | <i>Description</i>    |
|-------------|--------------------|-------------|-----------------------|
| 6           | 126-0898           | 1           | Decal-Roller Mounting |
| 7           | 116-8278           | 1           | Decal-Anti-Scalp      |
| 8           | 116-8727           | 1           | Decal-Belt Routing    |
| 9           | 116-8283           | 1           | Decal-Bolt Torque     |

# Deck Idler Assembly No. 126-2314



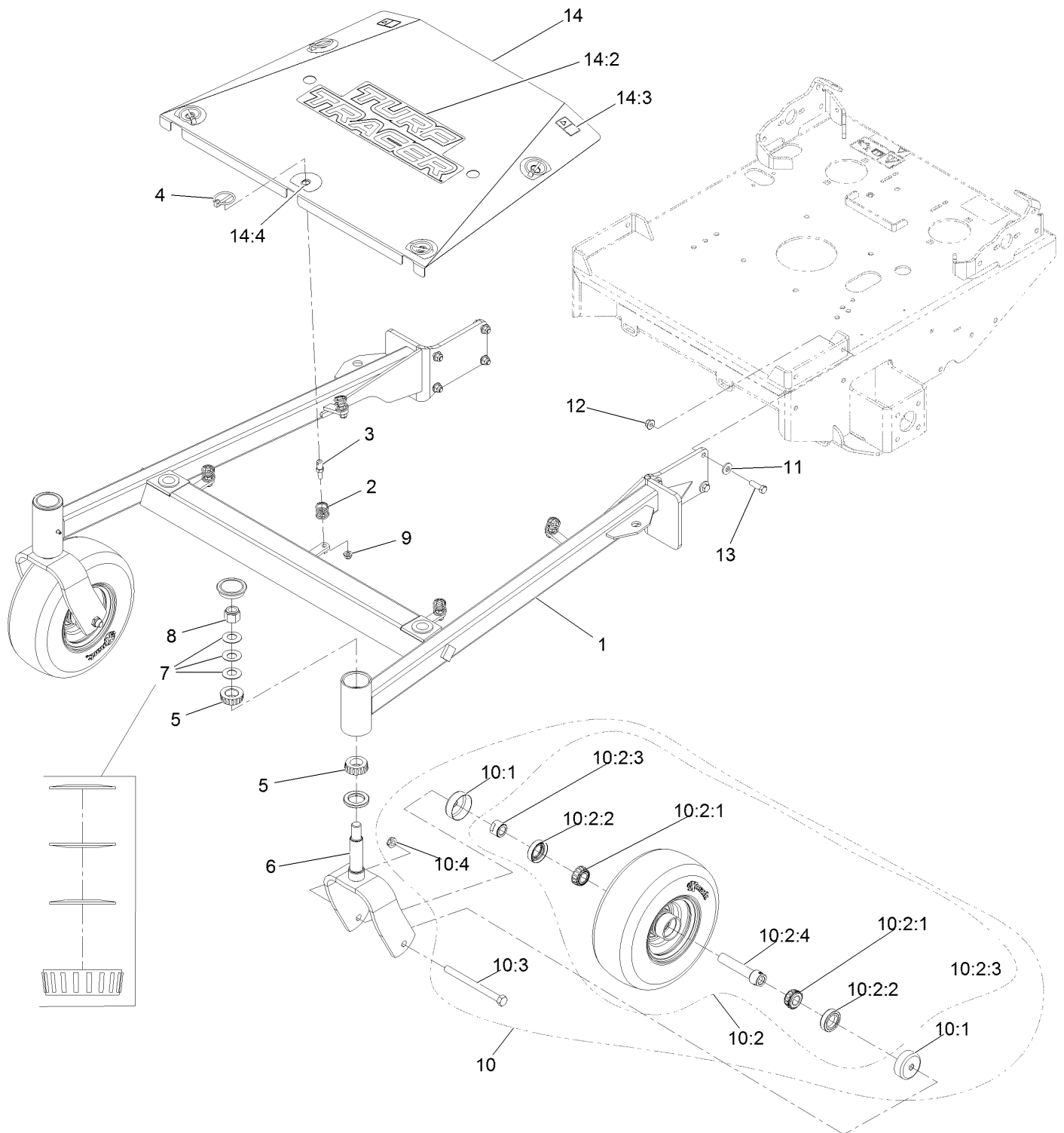
## Deck Idler Assembly No. 126-2314 (continued)

| <i>Ref.</i> | <i>Part Number</i> | <i>Qty.</i> | <i>Description</i> |
|-------------|--------------------|-------------|--------------------|
| 1           |                    | 1           | Weld, Idler Arm ●  |
| 2           | 106-7159           | 2           | O-Ring             |
| 3           | 32120-10           | 2           | Ring-Snap          |
| 4           | 103-3504           | 2           | Bearing-Spherical  |

| <i>Ref.</i> | <i>Part Number</i> | <i>Qty.</i> | <i>Description</i>     |
|-------------|--------------------|-------------|------------------------|
| 5           | 103-5677           | 1           | Spacer                 |
| 6           | 103-3505           | 1           | Seal-Double Lip        |
| 7           | 103-3506           | 1           | Seal-Lip, Single       |
| 8           | 302-40             | 1           | Fitting-Grease, 90 DEG |

● Not serviced separately

# Frame Assembly

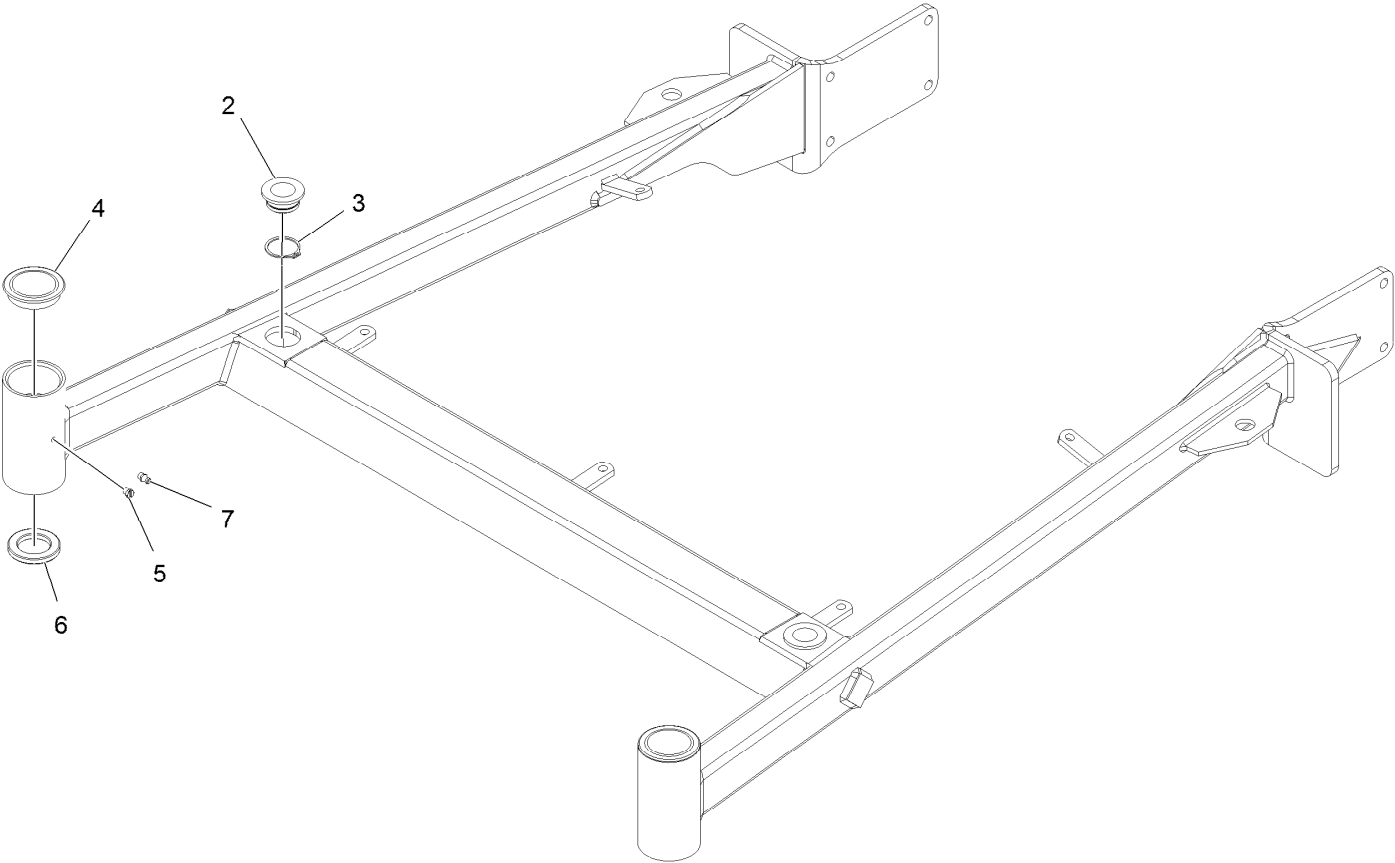


## Frame Assembly (continued)

| <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           | 126-2541           | 1           | ASM, Front Frame W/<br>Bearings, 60 | 10:2:2      | 103-0063           | 2           | Seal-Double Lip                     |
| 2           | 126-1503           | 5           | Spring                              | 10:2:3      | 103-3051           | 1           | Spacer-Nut                          |
| 3           | 126-1504           | 5           | Pin, Spring                         | 10:2:4      | 126-5359           | 1           | Axle ASM-Caster                     |
| 4           | 92-1298            | 5           | Pin-Lynch                           | 10:3        | 325-20             | 1           | Screw-HH 1/2-13 X 6                 |
| 5           | 1-543509           | 4           | Cone-Bearing Tapered<br>Roller      | 10:4        | 3296-45            | 1           | Nut-Nyloc 1/2-13 Thin               |
| 6           | 103-1891-01        | 2           | Wld, Caster Fork                    | 11          | 98-5975            | 8           | Washer-Spring Disc 3/8              |
| 7           | 1-633508           | 6           | Washer-Spring Disc                  | 12          | 104-8301           | 8           | Nut-Nyloc 3/8-16 Flg                |
| 8           | 3296-51            | 2           | Nut-Nyloc 3/4-10                    | 13          | 323-7              | 8           | Screw-HH 3/8-16 X 1 1/4             |
| 9           | 104-8300           | 5           | Nut-Nyloc 5/16-18 Flg               | 14          | 126-2545           | 1           | ASM, Center Shield W/<br>Decals, 60 |
| 10          | 109-3524           | 2           | Asm, Wheel And Bearings             | 14:2        | 126-6892           | 1           | Decal-Turf Tracer                   |
| 10:1        | 103-2768           | 2           | Guard-Seal                          | 14:3        | 106-5517           | 2           | Decal-Warning                       |
| 10:2        |                    | 1           | ASM,Wheel And Bearing ●             | 14:4        | 126-1692           | 5           | Decal-Scratch Cover                 |
| 10:2:1      | 1-633585           | 2           | Bearing-Cone Tapered<br>Roller      |             |                    |             |                                     |

● Not serviced separately

Front Frame Assembly No. 126-2540

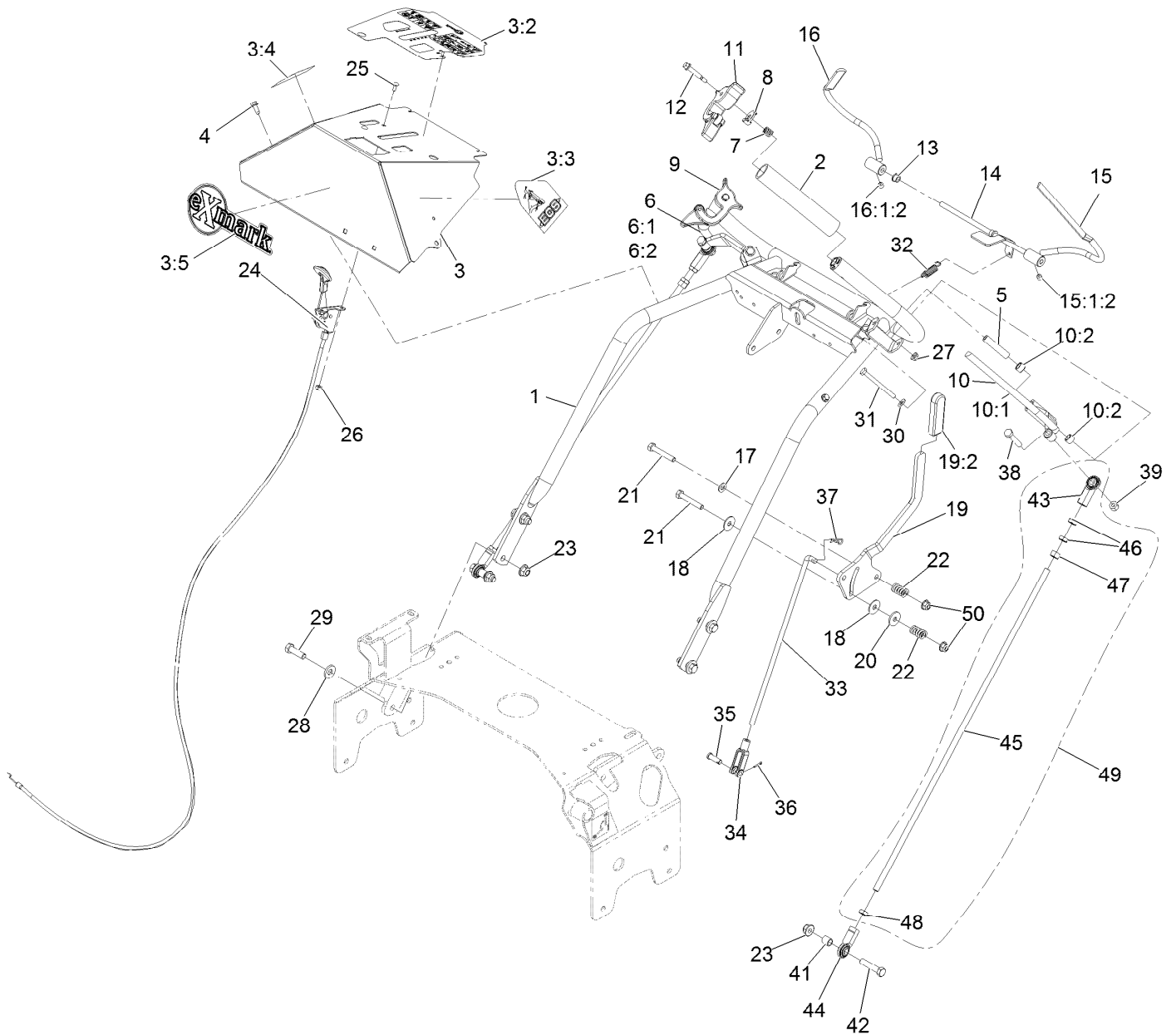


## Front Frame Assembly No. 126-2540 (continued)

| <i>Ref.</i> | <i>Part Number</i> | <i>Qty.</i> | <i>Description</i> |
|-------------|--------------------|-------------|--------------------|
| 2           | 1-513336           | 2           | Bushing-Deck       |
| 3           | 32120-33           | 2           | Ring-Retaining     |
| 4           | 103-4882           | 2           | Cap-Grease         |

| <i>Ref.</i> | <i>Part Number</i> | <i>Qty.</i> | <i>Description</i> |
|-------------|--------------------|-------------|--------------------|
| 5           | 1-811010           | 2           | Plug               |
| 6           | 1-543511           | 2           | Seal-Grease        |
| 7           | 302-19             | 1           | Zerk-1/4-28 Str    |

## Handle Assembly



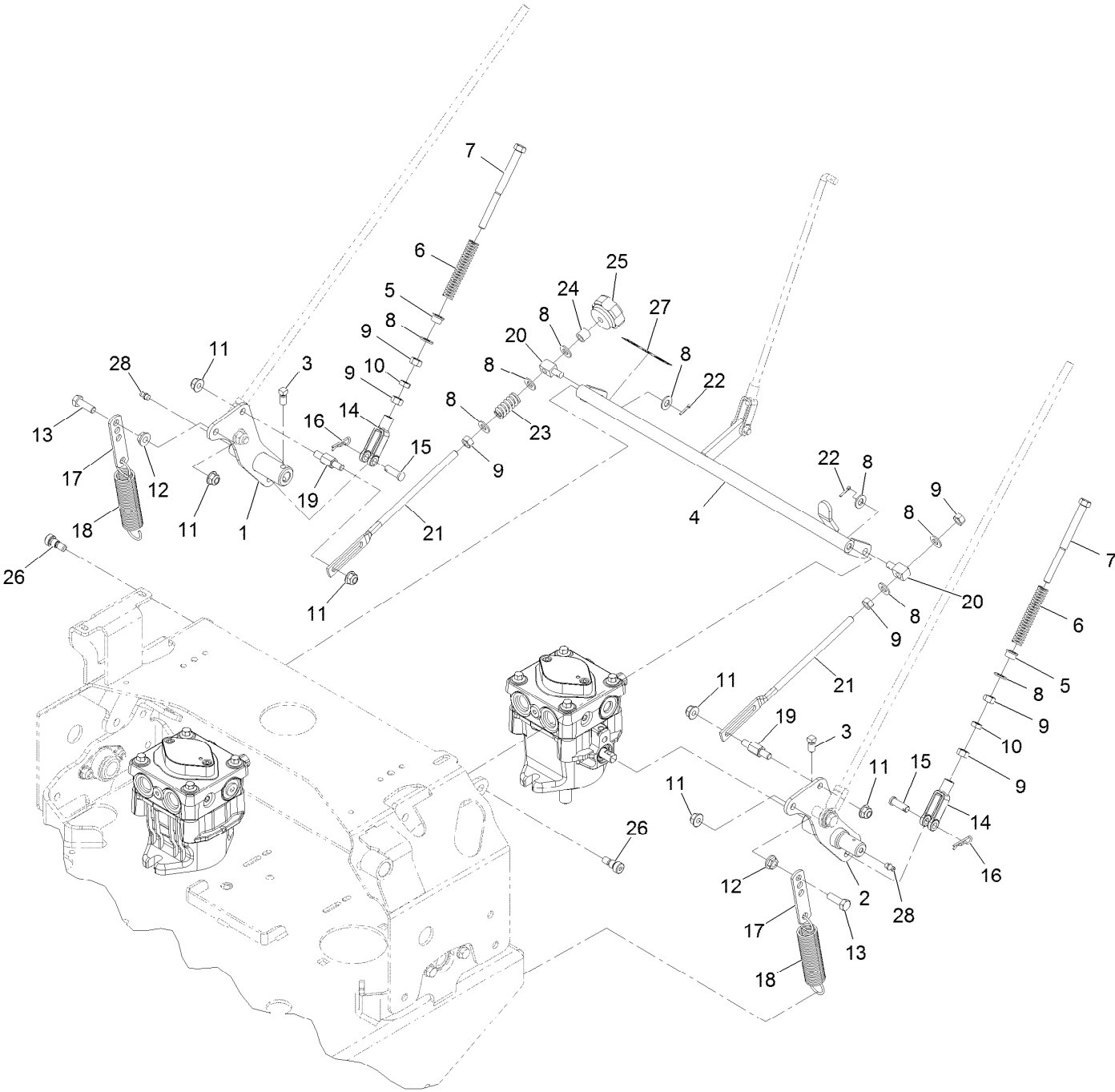
## Handle Assembly (continued)

| <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           | 126-2642-03        | 1           | Weld, Handle              | 20          | 1-603716           | 1           | Washer-Friction Disc       |
| 2           | 103-0815           | 2           | Grip-BAR, Handle          | 21          | 322-11             | 2           | Screw-HH 5/16-18 X 2 1/4   |
| 3           | 126-2820           | 1           | ASM, Console W/ Decals    | 22          | 1-323245           | 2           | Spring-Compression         |
| 3:2         | 126-3315           | 1           | Decal-Console Ttx Efi     | 23          | 104-8301           | 6           | Nut-Nyloc 3/8-16 Flg       |
| 3:3         | 103-2242           | 1           | Decal, Ecs Instruction LH | 24          | 109-3958           | 1           | Control-Throttle           |
| 3:4         | 103-2243           | 1           | Decal, Ecs Instruction RH | 25          | 1-807513           | 2           | Bolt-Carriage #10-24 X 1/2 |
| 3:5         | 126-6877           | 1           | Decal, Exmark Logo        | 26          | 3296-2             | 2           | Nut-Nyloc #10-24           |
| 4           | 32144-10           | 2           | Screw-HWH 1/4-20 X .62    | 27          | 104-7201           | 2           | Nut-Nyloc 1/4-20 Flg       |
| 5           | 103-0027           | 2           | Bushing-Lever, Drive      | 28          | 98-5975            | 4           | Washer-Spring Disc 3/8     |
| 6           | 103-2513           | 1           | Asm, Drive Lever RH       | 29          | 323-7              | 4           | Screw-HH 3/8-16 X 1 1/4    |
| 6:1         | 116-4082           | 1           | Wld,RH Drive Lever        | 30          | 3256-22            | 2           | Washer-1/4 SAE             |
| 6:2         | 126-9366           | 2           | Bushing, Sleeve           | 31          | 321-14             | 2           | Screw-HH 1/4-20 X 2 3/4    |
| 7           | 1-633349           | 2           | Spring-Compression        | 32          | 1-303363           | 1           | Spring-Extension           |
| 8           | 126-2921           | 2           | Latch, Ecs                | 33          | 1-413225           | 1           | Rod, Speed Control         |
| 9           | 103-1371           | 1           | Thumb Latch Asm RH        | 34          | 1-303105           | 1           | Yoke-Adjustable            |
| 10          | 103-2514           | 1           | Asm, Drive Lever LH       | 35          | 1-808280           | 1           | Pin-Clevis 5/16 X 1 49/64  |
| 10:1        | 116-4081           | 1           | Wld,LH Drive Lever        | 36          | 3272-5             | 1           | Pin-Cotter 3/32 X 1/2      |
| 10:2        | 126-9366           | 2           | Bushing, Sleeve           | 37          | 1-806003           | 1           | Hairpin-Cotter             |
| 11          | 103-1372           | 1           | Thumb Latch Asm LH        | 38          | 322-9              | 2           | Screw-HH 5/16-18 X 1 3/4   |
| 12          | 126-2931           | 2           | Screw-Shoulder            | 39          | 3296-29            | 2           | Nut-Nyloc 5/16-18          |
| 13          | 1-303365           | 2           | Bushing-Nylon             | 41          | 103-1166           | 2           | Spacer-Tube, Pump Link     |
| 14          | 103-0769-03        | 1           | Rod Weldment, OPC         | 42          | 323-9              | 2           | Screw-HH 3/8-16 X 1 3/4    |
| 15          | 116-4079           | 1           | Wld,LH OPC Lever ■        | 43          | 103-2463           | 4           | Balljoint                  |
| 15:1:2      | 1-803322           | 1           | Setscrew-5/16-24 X 5/16 ● | 44          | 103-1167           | 2           | Joint-Ball End             |
| 16          | 116-4080           | 1           | Wld,RH OPC Lever ■        | 45          | 103-1148           | 2           | Rod,Drive Lever            |
| 16:1:2      | 1-803322           | 1           | Setscrew-5/16-24 X 5/16 ● | 46          | 3220-3             | 4           | Nut-Jam 3/8-24             |
| 17          | 3256-23            | 1           | Washer-5/16 SAE           | 47          | 3219-3             | 2           | Nut-Hex 3/8-24             |
| 18          | 1-323244           | 2           | Washer-Friction           | 48          | 3220-16            | 2           | Nut-Jam 3/8-24 LH          |
| 19          | 126-0148           | 1           | Lever, Shift W/Grip       | 49          | 116-3414           | 2           | Drive Link ASM             |
| 19:2        | 103-5994           | 1           | Grip-Handle, Steering     | 50          | 104-8300           | 2           | Nut-Nyloc 5/16-18 Flg      |

● 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.

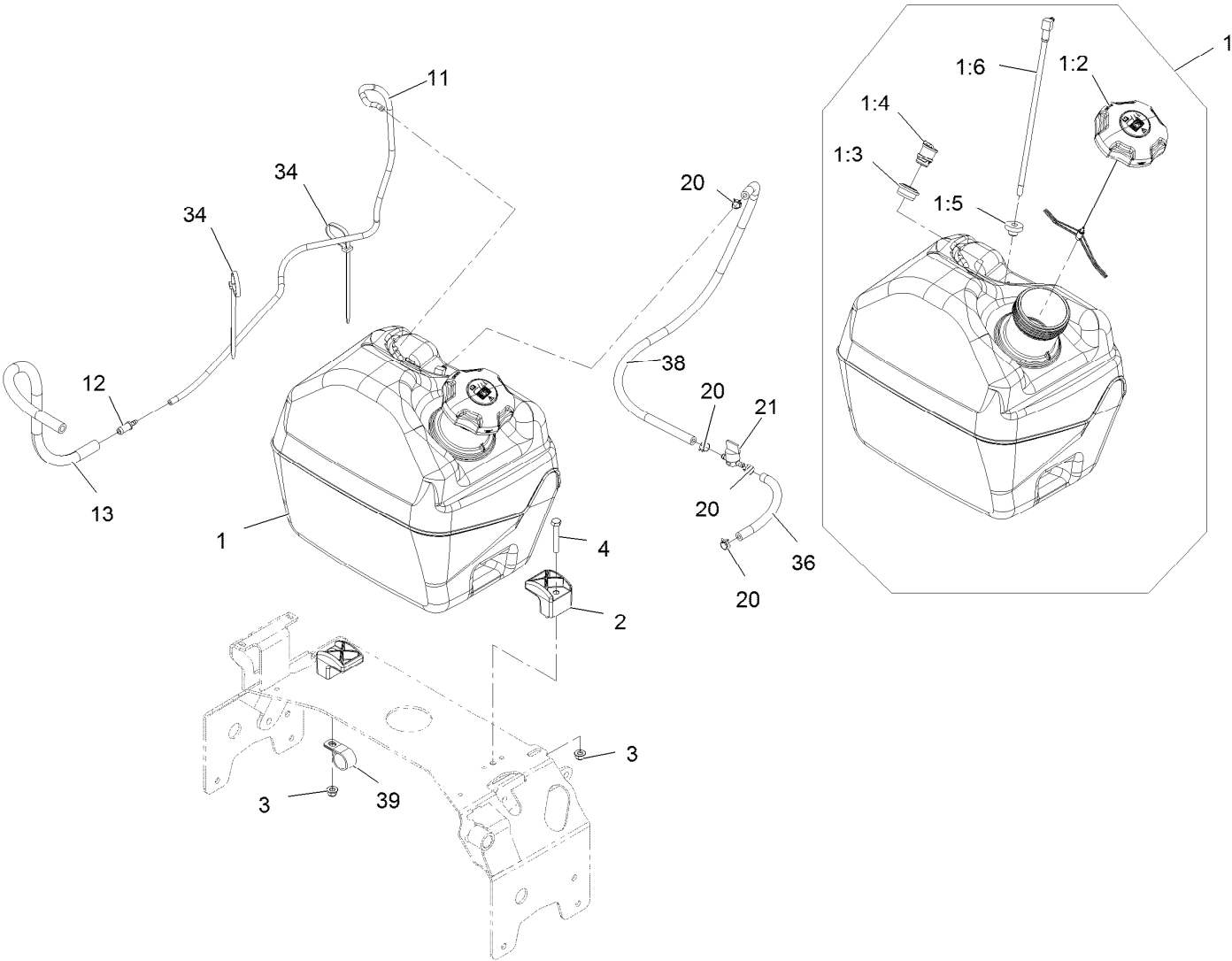
# Controls Assembly



## Controls 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           | 116-9975           | 1           | Weld, Motion Control, Rt | 15          | 1-808280           | 2           | Pin-Clevis 5/16 X 1 49/64 |
| 2           | 116-9974           | 1           | Weld, Motion Control, Lt | 16          | 1-806003           | 2           | Hairpin-Cotter            |
| 3           | 1-803022           | 2           | Setscrew-5/16-18 X 5/8   | 17          | 1-613089           | 2           | Tab-Spring, Extension     |
| 4           | 126-2982-01        | 1           | Weld, Speed Control      | 18          | 1-603693           | 2           | Spring                    |
| 5           | 1-603735           | 2           | Bushing-Flanged          | 19          | 126-0610           | 2           | Pin, Motion Control       |
| 6           | 103-0265           | 2           | Spring, Neutral Return   | 20          | 1-603676           | 2           | Swivel-Adjustable, Short  |
| 7           | 1-603737           | 2           | Bolt-Neutral Return      | 21          | 1-413350           | 2           | Link-Control, Speed       |
| 8           | 3256-23            | 9           | Washer-5/16 SAE          | 22          | 3272-5             | 2           | Pin-Cotter 3/32 X 1/2     |
| 9           | 3219-2             | 7           | Nut-Hex 5/16-24          | 23          | 1-323245           | 1           | Spring-Compression        |
| 10          | 3220-2             | 2           | Nut-Jam 5/16-24          | 24          | 1-603903           | 1           | Spacer                    |
| 11          | 104-8300           | 6           | Nut-Nyloc 5/16-18 Flg    | 25          | 103-3060           | 1           | Knob-Tracking             |
| 12          | 32128-20           | 2           | Nut-Whizlock 5/16-18     | 26          | 1-809056           | 2           | Screw-Sh 5/16-18 X 1 3/8  |
| 13          | 322-5              | 2           | Screw-HH 5/16-18 X 1     | 27          | 116-7918           | 1           | Decal-Tracking Adjustment |
| 14          | 1-303105           | 2           | Yoke-Adjustable          | 28          | 302-19             | 2           | Zerk-1/4-28 Str           |

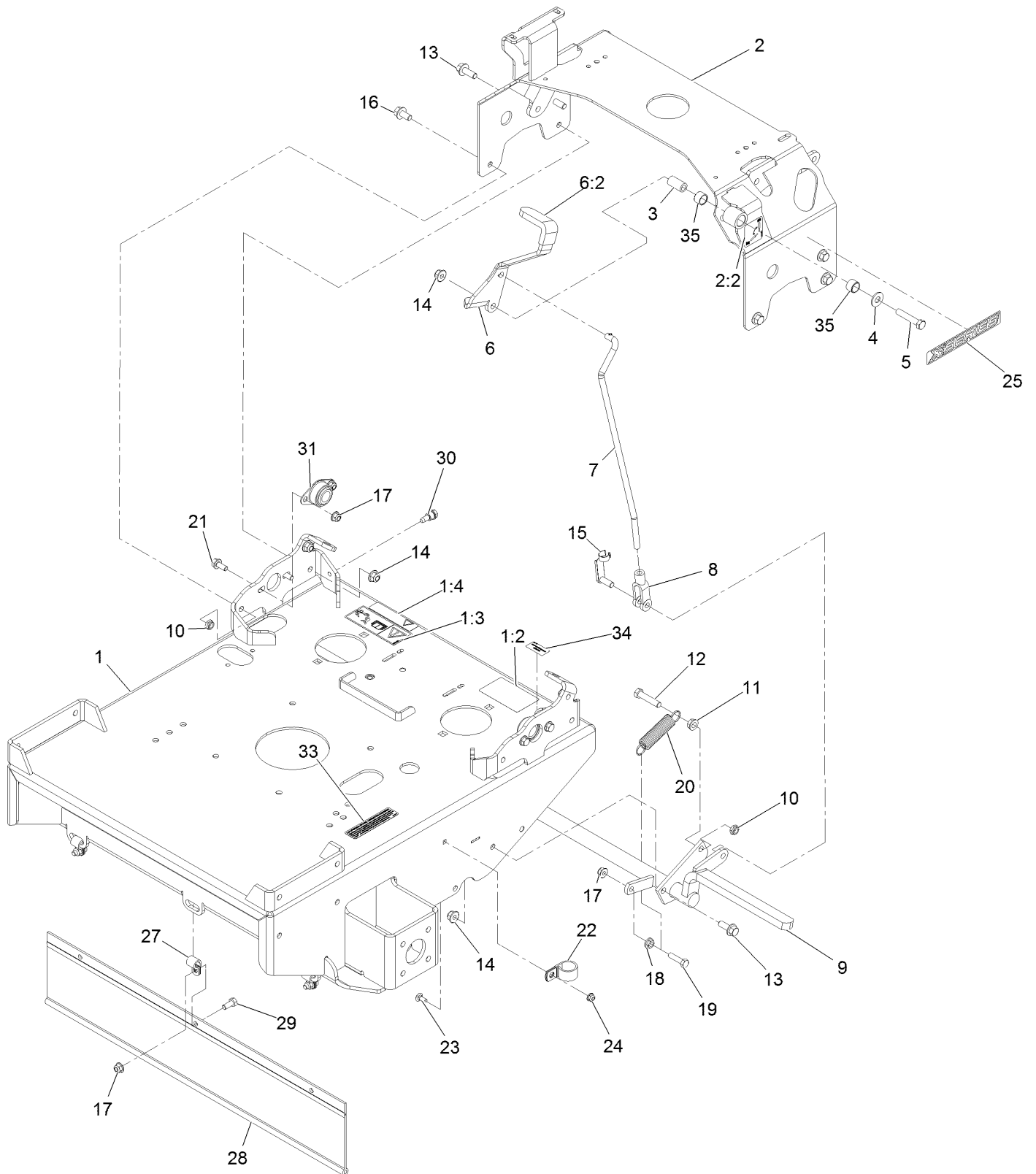
Fuel Assembly



## Fuel 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           | 126-9062           | 1           | ASM, Fuel Tank 5 Gal                | 11          | 126-1679           | 1           | Hose, Emissions           |
| 1:2         | 135-0330           | 1           | Cap-Fuel, Ratcheting (3.5")         | 12          | 98-2952            | 1           | Fitting-Straight          |
| 1:3         | 114-0284           | 1           | Grommet                             | 13          | 119-8562           | 1           | Hose-Fuel                 |
| 1:4         | 119-3547           | 1           | Valve-Vent, Fuel                    | 20          | 2412-98            | 4           | Clamp-Hose                |
| 1:5         | 46-6560            | 1           | Bushing                             | 21          | 1-603770           | 1           | Valve-Fuel                |
| 1:6         | 109-9364           | 1           | Fitting-Fuel (W/Line And<br>Screen) | 34          | 1-303335           | 1           | Tie-Cable 7 15/16 (Large) |
| 2           | 107-4543           | 2           | Clamp                               | 36          | 110-1876           | 1           | Hose-Fuel                 |
| 3           | 104-8300           | 2           | Nut-Nyloc 5/16-18 Flg               | 38          | 109-0275           | 1           | Hose-Fuel Line 32"        |
| 4           | 322-10             | 2           | Screw-HH 5/16-18 X 2                | 39          | 1-643312           | 1           | Clip-Loom                 |

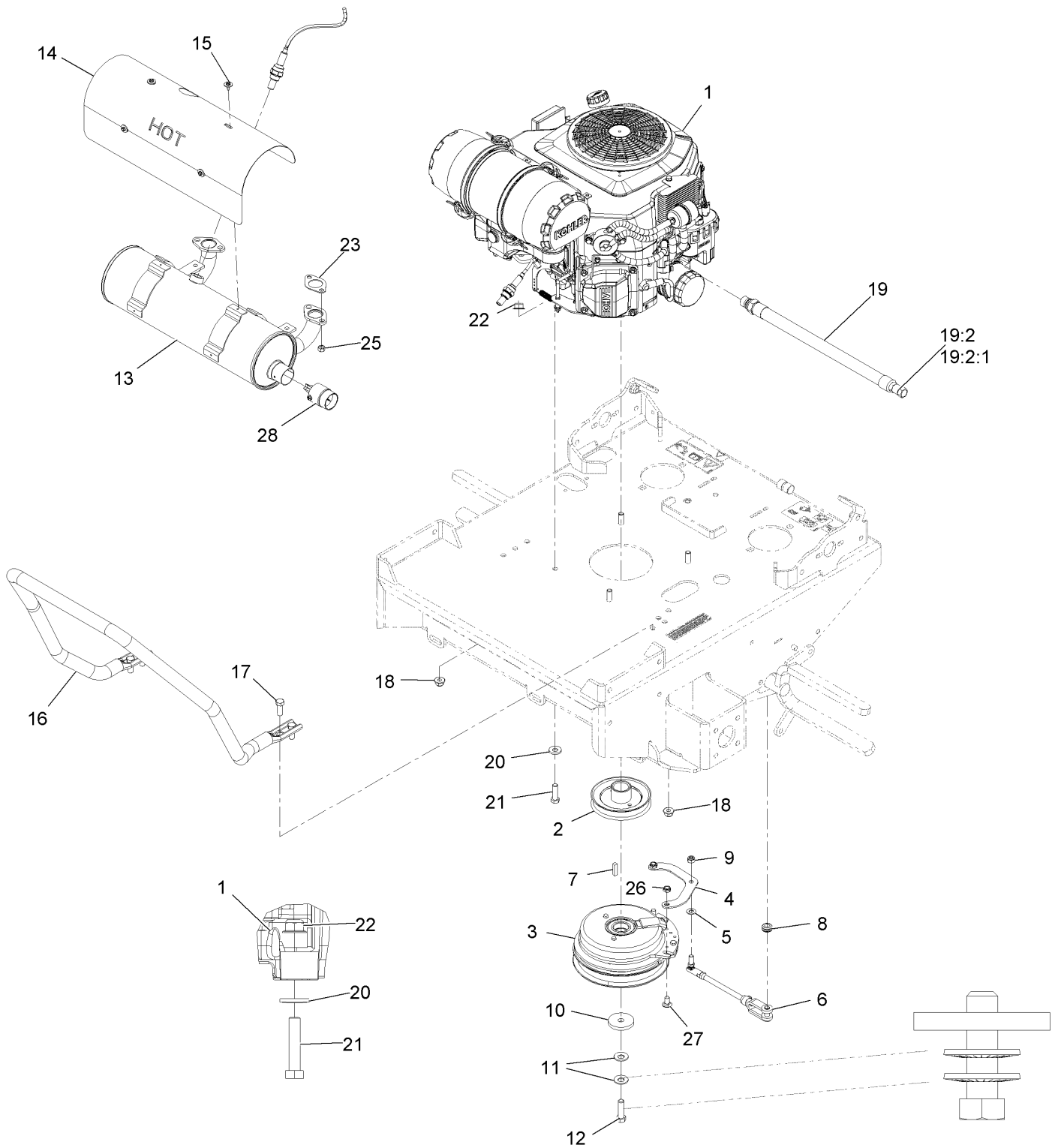
# Engine Deck Assembly



## 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           | 126-2521           | 1           | ASM, Engine Deck W/<br>Decals | 15          | 103-2399           | 1           | Pin-Clevis Spring 3/8      |
| 1:2         | 98-1977            | 1           | Decal-Warning                 | 16          | 3234-12            | 2           | Screw-HH Flg 3/8-16 X 3/4  |
| 1:3         | 126-1400           | 1           | Decal-Warning, Sulky          | 17          | 104-8300           | 8           | Nut-Nyloc 5/16-18 Flg      |
| 1:4         | 116-8253           | 1           | Decal-Drive Release           | 18          | 32128-20           | 1           | Nut-Whizlock 5/16-18       |
| 2           | 126-2181           | 1           | ASM, Tank Support W/<br>Decal | 19          | 322-6              | 1           | Screw-HH 5/16-18 X 1 1/4   |
| 2:2         | 116-5988           | 1           | Decal-Park Brake, CE          | 20          | 1-323161           | 1           | Spring                     |
| 3           | 1-413344           | 1           | Bushing-Pivot                 | 21          | 3234-47            | 4           | Screw-HH Flg 5/16-18 X 3/4 |
| 4           | 3256-4             | 1           | Washer-3/8 Std                | 22          | 1-643312           | 1           | Clip-Loom                  |
| 5           | 323-10             | 1           | Screw-HH 3/8-16 X 2           | 23          | 3229-11            | 1           | Bolt-Carriage 1/4-20 X 5/8 |
| 6           | 126-2180           | 1           | ASM, Brake Lever W/ Grip      | 24          | 104-7201           | 1           | Nut-Nyloc 1/4-20 Flg       |
| 6:2         | 1-303020           | 1           | Grip-Lever                    | 25          | 126-6573           | 2           | Decal-X-Series             |
| 7           | 116-9960           | 1           | Linkage-Brake                 | 27          | 1-413510           | 3           | Clip-Loom                  |
| 8           | 1-633131           | 1           | Yoke-Linkage, Brake           | 28          | 103-2224           | 1           | Shield, Drag               |
| 9           | 116-9159           | 1           | Wld,Brake Ttx                 | 29          | 322-3              | 3           | Screw-HH 5/16-18 X 3/4     |
| 10          | 3296-59            | 3           | Nut-Nyloc 3/8-16 Thin         | 30          | 115-1958           | 1           | Bolt-Shoulder              |
| 11          | 3290-357           | 1           | Nut-Whizlock 3/8-16           | 31          | 1-633102           | 2           | Bearing-Flanged            |
| 12          | 323-9              | 1           | Screw-HH 3/8-16 X 1 3/4       | 33          | 117-2718           | 1           | Decal-Arrester, Spark      |
| 13          | 3234-42            | 7           | Screw HHF 3/8-16 X 1          | 34          | 126-4345           | 1           | Decal-Patent               |
| 14          | 104-8301           | 8           | Nut-Nyloc 3/8-16 Flg          | 35          | 1-413347           | 2           | Sleeve-Bushing             |

# 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, Kohler<br>Ecv650-3017 ▲◆ | 15          | 116-1103           | 4           | Screw-HH, Thread Forming    |
| 2           | 126-2605           | 1           | Sheave W/ Hub                    | 16          | 116-8575-03        | 1           | Guard,Air Cleaner           |
| 3           | 126-2601           | 1           | Clutch, 200 Ft/Lbs, 1.13         | 17          | 323-6              | 4           | Screw-HH 3/8-16 X 1         |
| 4           | 126-2602           | 1           | Strap, Clutch                    | 18          | 104-8301           | 4           | Nut-Nyloc 3/8-16 Flg        |
| 5           | 3256-23            | 1           | Washer-5/16 SAE                  | 19          | 116-5316           | 1           | Oil Drain Hose ASM □■       |
| 6           | 126-0620           | 1           | ASM, Clutch Anchor               | 19:2        | 353-508            | 1           | Plug-W/O-Ring ●             |
| 7           | 1-807259           | 1           | Key-Machine 1/4 X 1/4 X 1 ▶      | 19:2:1      | 237-42             | 1           | O-Ring                      |
| 8           | 237-136            | 1           | Grommet                          | 20          | 1-303334           | 4           | Washer-Spring Disc 5/16     |
| 9           | 3296-4             | 1           | Nut-Lock 5/16-24                 | 21          | 322-7              | 4           | Screw-HH 5/16-18 X 1 1/2    |
| 10          | 109-6919           | 1           | Washer-Clutch                    | 22          | 104-8300           | 4           | Nut-Nyloc 5/16-18 Flg       |
| 11          | 1-603610           | 2           | Washer-Spring Disc 7/16          | 23          | 110-6697           | 2           | Gasket-Exhaust              |
| 12          | 87-2080            | 1           | Bolt-Hex, TAP ○                  | 25          | 68-9400            | 4           | Nut-Flange                  |
| 13          | 116-8653           | 1           | Muffler-Ttx, Efi                 | 26          | 3296-47            | 2           | Nut-Nyloc 5/16-18 Thin      |
| 14          | 116-8654           | 1           | Shield-Muffler,Ttx Efi           | 27          | 3230-18            | 2           | Bolt-Carriage 5/16-18 X 5/8 |
|             |                    |             |                                  | 28          | 116-0433           | 1           | Arrestor,Spark 1.375 DIA    |

● Torque to 24-26 ft-lb

▲ Not serviced separately

□ Use a Teflon Pipe Sealant or equivalent on threads.

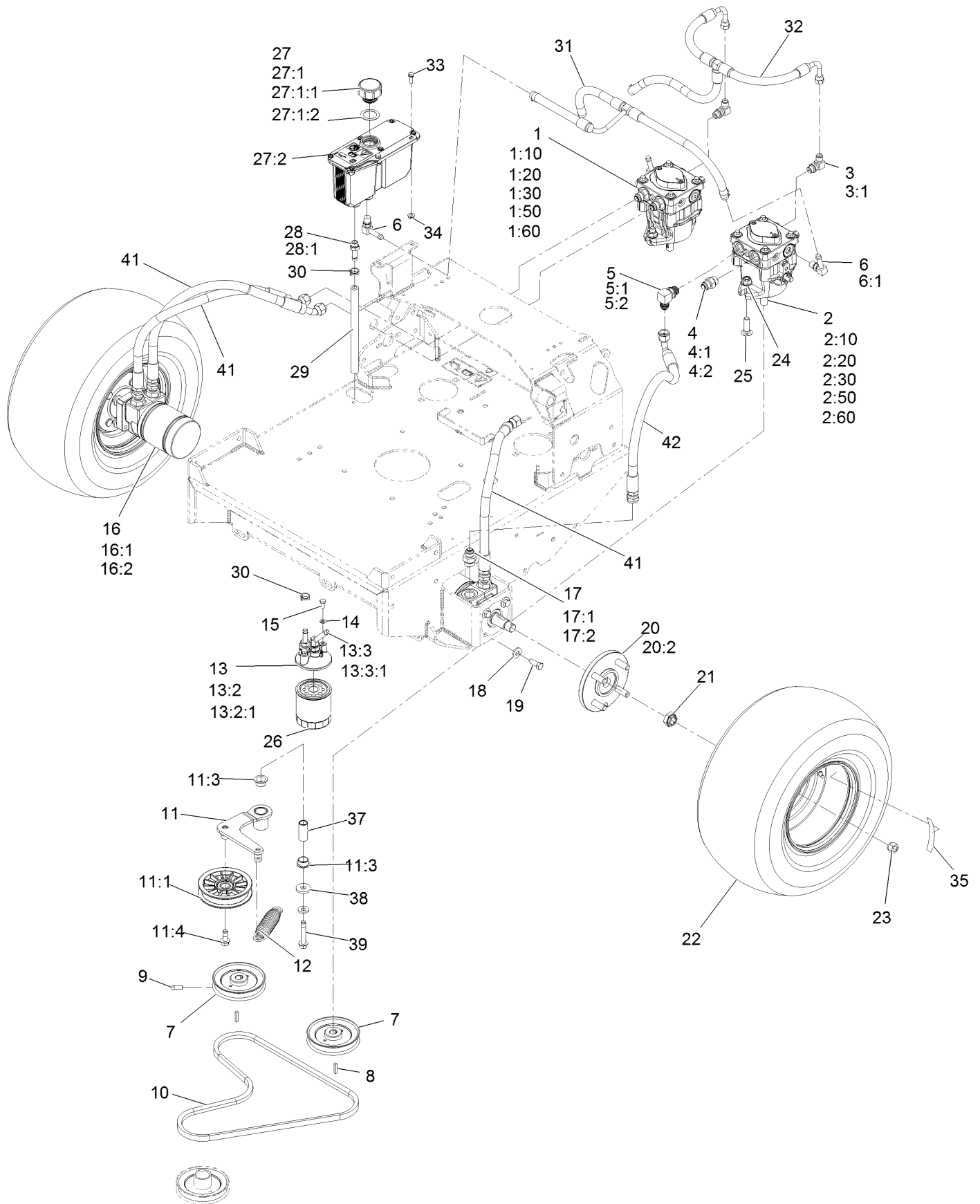
○ Use Pro-Lock, Nut Type (P/N 1-840022, .5ml tube) on threads.

▶ Apply anti-seize compound to engine crankshaft, pulley hub I.D., clutch bore I.D. and square key.

■ Torque to 17-23 ft-lb

◆ Obtain parts from [www.kohlerplus.com](http://www.kohlerplus.com)

# Hydro Assembly



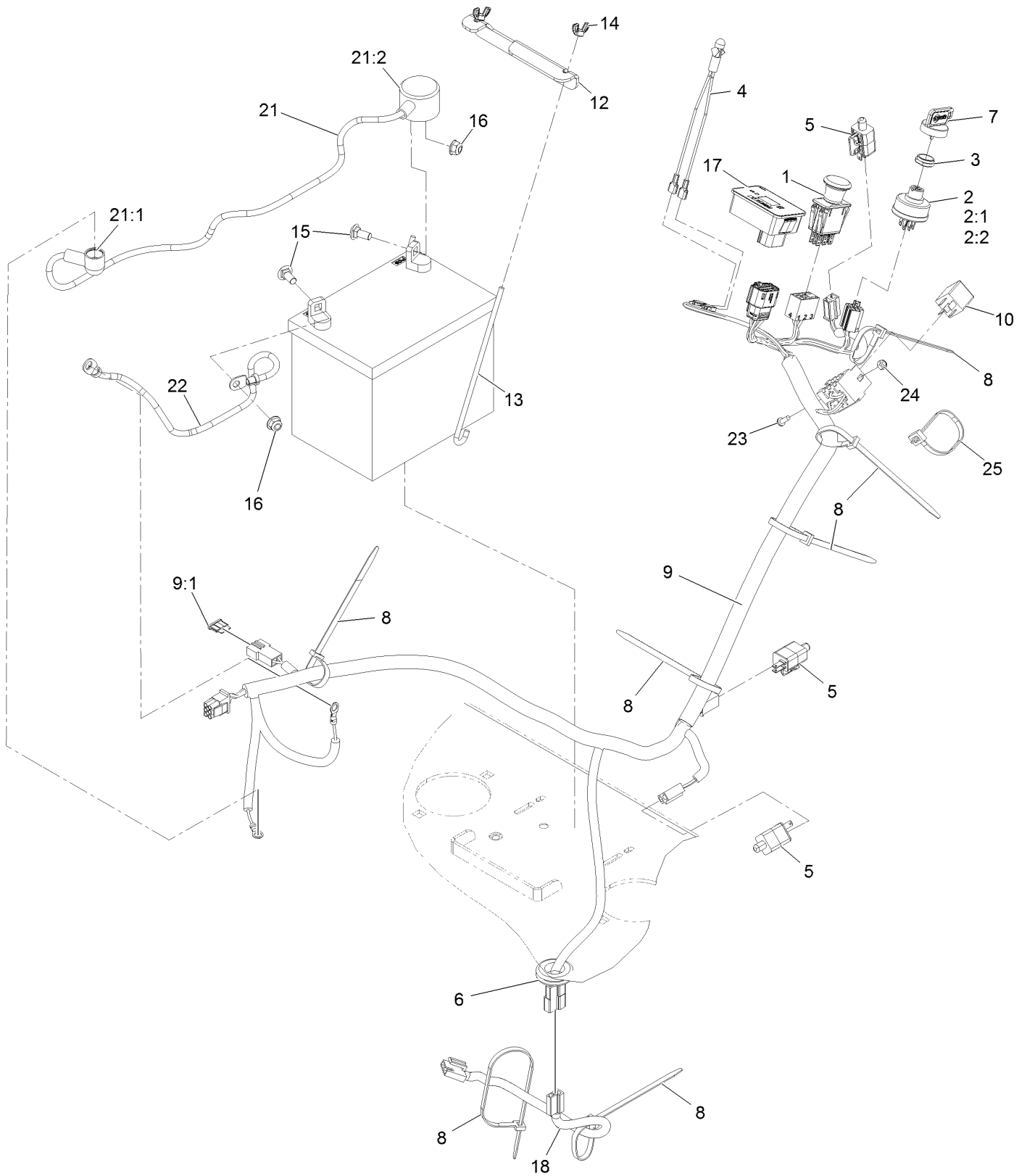
## Hydro Assembly (continued)

| <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           | 116-2495           | 1           | Pump-HYD Pe RH TTH           | 15          | 321-3              | 2           | Screw-HH 1/4-20 X 5/8         |
| 1:10        | 103-2664           | 1           | Input Shaft Kit              | 16          | 1-603718           | 2           | HYD Motor ASM                 |
| 1:20        | 94-6922            | 1           | Bearing-Thrust               | 16:1        | 1-000119           | 1           | Seal Kit                      |
| 1:30        | 103-2666           | 1           | Cylinder Block Kit           | 16:2        | 1-000138           | 1           | Bearing And Seal Kit          |
| 1:50        | 105-6184           | 1           | Seal Overhaul Kit            | 17          | 1-603991           | 4           | Adapter-Straight              |
| 1:60        | 126-2479           | 1           | Kit, 10Cc Pump Kit           | 17:1        | 237-80             | 1           | O-Ring                        |
| 2           | 116-2494           | 1           | Pump-HYD Pe LH TTH           | 17:2        | 1-603992           | 1           | O-Ring-37 Flare #8            |
| 2:10        | 103-2664           | 1           | Input Shaft Kit              | 18          | 98-5975            | 9           | Washer-Spring Disc 3/8        |
| 2:20        | 94-6922            | 1           | Bearing-Thrust               | 19          | 323-6              | 8           | Screw-HH 3/8-16 X 1           |
| 2:30        | 103-2666           | 1           | Cylinder Block Kit           | 20          | 112-9049           | 2           | Wheel Hub ASM                 |
| 2:50        | 105-6184           | 1           | Seal Overhaul Kit            | 20:2        | 1-633926           | 4           | Stud-Wheel                    |
| 2:60        | 126-2479           | 1           | Kit, 10Cc Pump Kit           | 21          | 116-2839           | 2           | Nut-Lock                      |
| 3           | 103-1802           | 2           | Ftg-Elbow 90D                | 22          | 103-1715           | 2           | Tire And Wheel Assy           |
| 3:1         | 237-42             | 1           | O-Ring                       | 23          | 242-50             | 8           | Nut-Lug 1/2-20                |
| 4           | 1-603990           | 3           | Adapter-Straight             | 24          | 114-8417           | 4           | Nut-HF, NI                    |
| 4:1         | 1-603920           | 1           | O-Ring-SAE #8                | 25          | 3232-3             | 4           | Bolt-Carriage 7/16-14 X 1 1/2 |
| 4:2         | 1-603992           | 1           | O-Ring-37 Flare #8           | 26          | 109-4180           | 1           | Element, Oil Filter           |
| 5           | 103-2153           | 1           | Elbow-90°                    | 27          | 126-1248           | 1           | ASM, HYD Reservoir ■          |
| 5:1         | 1-603920           | 1           | O-Ring-SAE #8                | 27:1        |                    | 1           | Reservoir-HYD ●               |
| 5:2         | 1-603992           | 1           | O-Ring-37 Flare #8           | 27:1:1      | 103-1948           | 1           | Cap-Reservoir, HYD            |
| 6           | 100-4887           | 3           | Fitting-Barbed, 90 DEG       | 27:1:2      | 103-1949           | 1           | Gasket-Cap                    |
| 6:1         | 237-42             | 1           | O-Ring                       | 27:2        | 115-4212           | 1           | Decal-Warning                 |
| 7           | 1-413010           | 2           | Sheave ASM                   | 28          | 103-1912           | 1           | Adapter-Straight              |
| 8           | 1-807272           | 2           | Key-5Mm X 5Mm X 25Mm         | 28:1        | 237-42             | 1           | O-Ring                        |
| 9           | 120-6474           | 4           | Screw-Set, SQH 5/16-18 X 3/4 | 29          | 103-2959           | 1           | Hose-Charge                   |
| 10          | 103-4761           | 1           | Belt                         | 30          | 103-1988           | 6           | Clamp-Hose 11/16              |
| 11          | 126-2531           | 1           | ASM, Pump Idler              | 31          | 126-2550           | 1           | Hose, Case                    |
| 11:1        | 109-4077           | 1           | Pulley-Idler, Flat           | 32          | 126-2555           | 1           | Hose, Charge                  |
| 11:3        | 109-8054           | 2           | Bushing-Flanged              | 33          | 32105-15           | 2           | Screw-Machine 1/4-20 X 3/4    |
| 11:4        | 126-1680           | 1           | Screw-Hfh                    | 34          | 32128-33           | 2           | Nut-Whizlock 1/4-20           |
| 12          | 116-6316           | 1           | Spring-Extension             | 35          | 126-2056           | 2           | Decal-Torque Wheel Lug-Hub    |
| 13          | 126-0621           | 1           | ASM, Filter Head             | 37          | 126-2954           | 1           | Pivot, Idler                  |
| 13:2        | 103-1912           | 1           | Adapter-Straight             | 38          | 1-373034           | 1           | Washer                        |
| 13:2:1      | 237-42             | 1           | O-Ring                       | 39          | 126-2956           | 1           | Screw-HHF W/ Patch            |
| 13:3        | 103-1807           | 1           | Fitting-Barbed, 45 DEG       | 41          | 116-8646           | 3           | Hose,Hydraulic W/Cover        |
| 13:3:1      | 237-42             | 1           | O-Ring                       | 42          | 119-7827           | 1           | HYD Hose ASM                  |
| 14          | 1-805004           | 2           | Washer-Lock 1/4 Heavy        |             |                    |             |                               |

● Not serviced separately

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

# Electrical Assembly



## Electrical 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           | 103-5221           | 1           | Switch-PTO                       | 13          | 1-633651           | 2           | Bolt-Holddown                 |
| 2           | 103-0206           | 1           | Switch-Ignition W/Keys           | 14          | 1-543792           | 2           | Wingnut-Nyloc 1/4-20          |
| 2:1         | 3254-5             | 1           | Washer-Tooth, Internal           | 15          | 3230-1             | 2           | Bolt-Carriage 5/16-18 X 3/4   |
| 2:2         | 218-461            | 1           | Nut-HH                           | 16          | 104-8300           | 2           | Nut-Nyloc 5/16-18 Flg         |
| 3           | 103-0498           | 1           | Nut-Ignition                     | 17          | 116-8893           | 1           | Module-Hour Meter             |
| 4           | 1-643267           | 1           | Indicator-Red LED                | 18          | 126-0624           | 1           | Harness-Clutch Pigtail        |
| 5           | 110-6765           | 3           | Switch                           | 21          | 109-7621           | 1           | Positive Battery Cable ASM    |
| 6           | 1-543286           | 1           | Grommet                          | 21:1        | 1-543393           | 1           | Insulator-Solenoid            |
| 7           | 103-2106           | 1           | Key-Exmark Logo                  | 21:2        | 109-2407           | 1           | Insulator-Battery             |
| 8           | 1-303335           | 7           | Tie-Cable 7 15/16 (Large)        | 22          | 1-413540           | 1           | Cable-Battery, Negative ●     |
| 9           | 126-3011           | 1           | Harness-Main Ttx Kohler Efi<br>■ | 23          | 1-803071           | 1           | Screw-Machine #10-24 X<br>1/2 |
| 9:1         | 1-816001           | 1           | Fuse-Blade Type, 20 Amp          | 24          | 3296-2             | 1           | Nut-Nyloc #10-24              |
| 10          | 1-643275           | 1           | Relay-12Vdc 40 Amp               | 25          | 1-643115           | 1           | Tie-Cable 11.4                |
| 12          | 126-0008           | 1           | Bracket, Battery Hold Down       |             |                    |             |                               |

● Not illustrated

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

**Notes:**



# MAXIMIZE THE PERFORMANCE OF YOUR EXMARK MACHINE.



## EXMARK® PREMIUM ENGINE OIL

Exmark now offers a family of engine oil viscosities to perform well in any environment. Each viscosity has the same synthetic formulation to give you what you need in punishing conditions. We designed each grade to the highest quality, making it ideal even for diesel applications. Coupled with Exmark Premium Fuel Treatment, we have the performance products to make your machine hum.

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- Wide span multi-grade combines easy starting in cold weather with maximum protection in high temperature operation.
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- 4-cycle high-temp formulation.
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- Shear stable, hypoid gear lube.
- Includes a premium additive system to combat wear, oxidation, rust & corrosion.

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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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