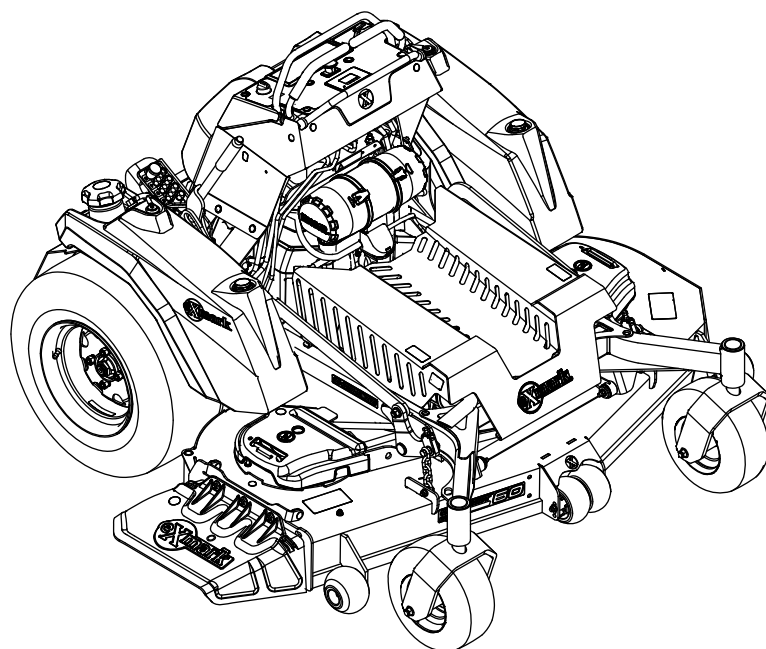




# **STARIS S-SERIES**

Model No. STS651GKA48400—Serial No. 408644346 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.

# 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).

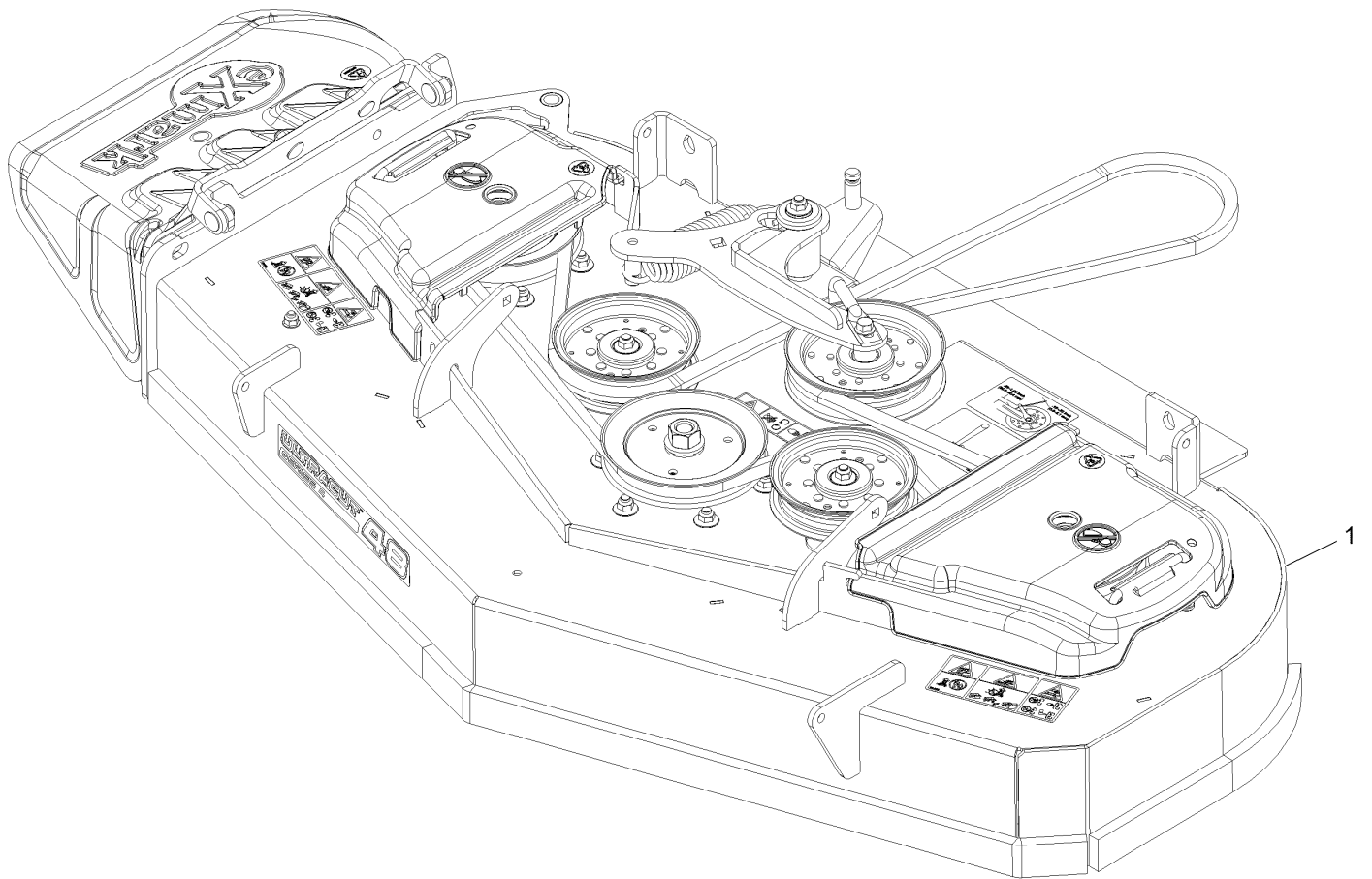


If your Exmark dealer does not have the Exmark part in stock, Exmark will get the parts to the dealer the next business day or the part will be FREE Guaranteed!! (Some restrictions apply. See your participating Exmark Dealer for details.)

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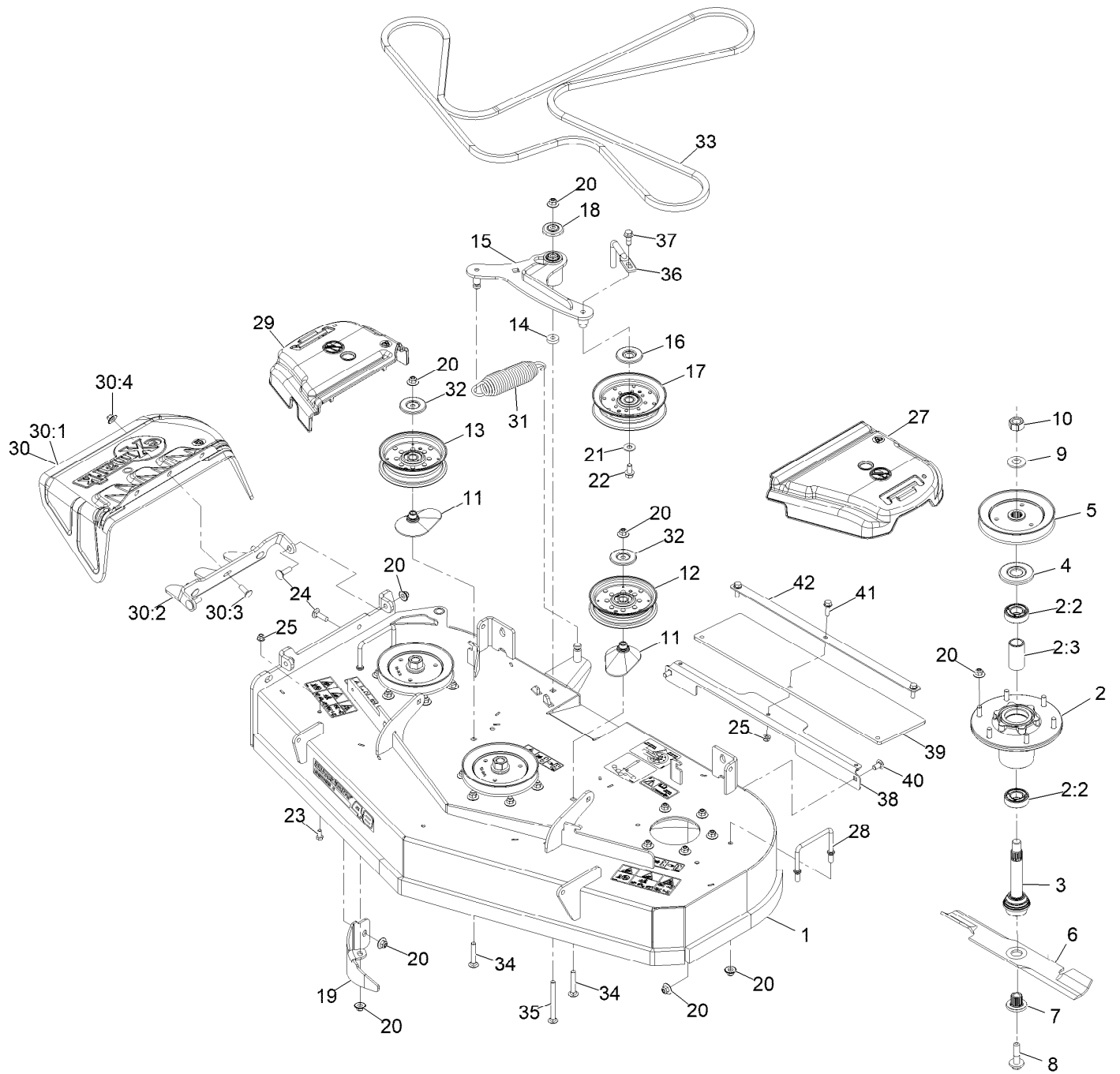
# Complete Deck Assembly



## Complete Deck Assembly (continued)

| <i>Ref.</i> | <i>Part Number</i> | <i>Qty.</i> | <i>Description</i>      |
|-------------|--------------------|-------------|-------------------------|
| 1           | 135-6668           | 1           | ASM, Complete Deck, 484 |

# Deck Assembly



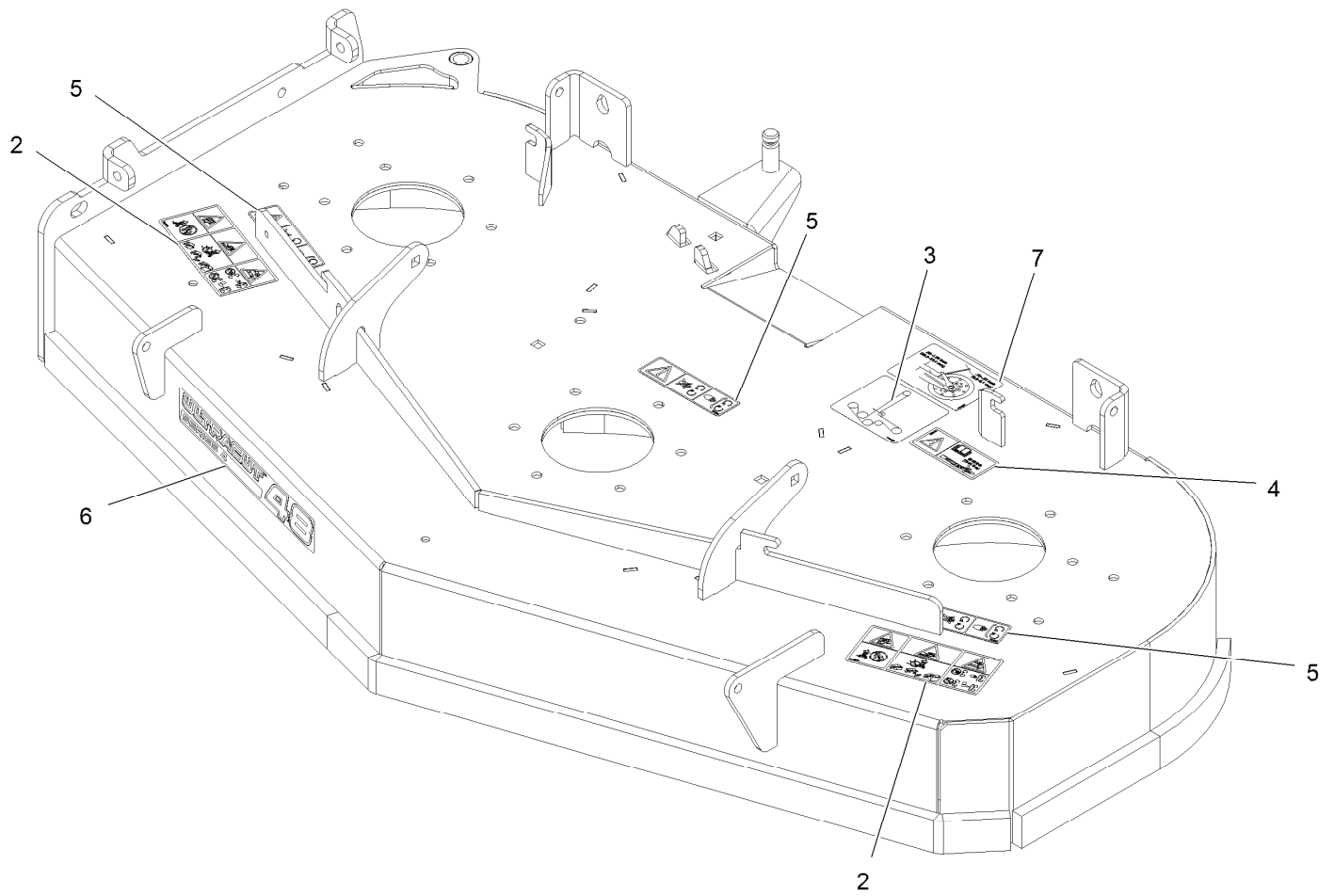
## Deck Assembly (continued)

| <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           | 135-1996           | 1           | ASM, Deck W/ Decals, 48"     | 21          | 3256-4             | 1           | Washer-3/8 Std                |
| 2           | 116-3344           | 3           | ASM-Cutter Hsg With Bearings | 22          | 110-1718           | 1           | Screw-Hex Flange 3/8-16 X 3/4 |
| 2:2         | 116-0720           | 2           | Bearing-Ball                 | 23          | 322-2              | 1           | Screw-HH 5/16-18 X 5/8        |
| 2:3         | 116-3312           | 1           | Spacer-Bearing               | 24          | 3231-25            | 3           | Bolt-Carriage 3/8-16 X 1 1/4  |
| 3           | 116-3341           | 3           | ASM-Spindle And Seal         | 25          | 104-8300           | 4           | Nut-Nyloc 5/16-18 Flg         |
| 4           | 116-1286           | 3           | Guard,Bearing Top .989       | 27          | 109-6936           | 1           | Cover-Belt, LH                |
| 5           | 116-0674           | 3           | Sheave,Blade Drive 5.90      | 28          | 109-6982           | 2           | Wireform-Cover                |
| 6           | 103-6386           | 3           | Blade, Low Lift ●            | 29          | 109-6935           | 1           | Cover-Belt, RH                |
| 6           | 103-6381           | 3           | Blade, Solid ●               | 30          | 109-7188           | 1           | ASM,Discharge Chute           |
| 6           | 103-6401           | 3           | Blade-Notched                | 30:1        | 109-2738           | 1           | Chute, Discharge              |
| 6           | 116-5177           | 3           | Blade-Extreme 2, 16.25" ●    | 30:2        | 109-8675-01        | 1           | Bracket,Discharge Chute       |
| 6           | 103-6391           | 3           | Blade, Mulching ■            | 30:3        | 3231-22            | 3           | Bolt-Carriage 3/8-16 X 1      |
| 7           | 103-3037           | 3           | Bushing, Splined             | 30:4        | 109-6658           | 3           | Nut-Nyloc 3/8-16 Flg          |
| 8           | 109-9220           | 3           | Screw-Sems 1/2-20 X 2.19     | 31          | 116-6317           | 1           | Spring-Extension              |
| 9           | 103-2802           | 3           | Washer-Spring Disc 3/4       | 32          | 126-8043           | 2           | Shield-Dust                   |
| 10          | 116-7306           | 3           | Nut-Hex                      | 33          | 135-1998           | 1           | Belt, 5V                      |
| 11          | 109-2872           | 2           | Spacer-Pulley                | 34          | 3231-7             | 2           | Bolt-Carriage 3/8-16 X 2 1/4  |
| 12          | 126-9187           | 1           | Pulley-Idler, Flat           | 35          | 3231-37            | 1           | Bolt-Carriage 3/8-16 X 4      |
| 13          | 126-9197           | 1           | Idler-Pulley, Flat 5.00X1.31 | 36          | 135-5023           | 1           | Guide, Belt                   |
| 14          | 62-6660            | 1           | Spacer                       | 37          | 126-1680           | 1           | Screw-HHF                     |
| 15          | 135-1937           | 1           | ASM, Deck Idler              | 38          | 135-6287-03        | 1           | Brkt, Heat Deflector          |
| 16          | 126-9195           | 1           | Shield-Guard, Dust           | 39          | 135-6358           | 1           | Shield, Heat                  |
| 17          | 126-9196           | 1           | Idler-Pulley, Flat           | 40          | 3231-21            | 2           | Bolt-Carriage 3/8-16 X 3/4    |
| 18          | 103-2916           | 1           | Guard-Top                    | 41          | 3234-29            | 3           | Screw-HH Flg 5/16-18 X 1      |
| 19          | 116-5995-01        | 1           | Baffle-Dogleg,Lzs Lzx Vt48   | 42          | 135-7122-03        | 1           | Brkt-Heat Deflector, Top      |
| 20          | 109-6658           | 30          | Nut-Nyloc 3/8-16 Flg         |             |                    |             |                               |

● Optional Equipment

■ Requires installation of mulch kit for proper mulching. See your Exmark dealer for details.

# Deck W/Decals Assembly

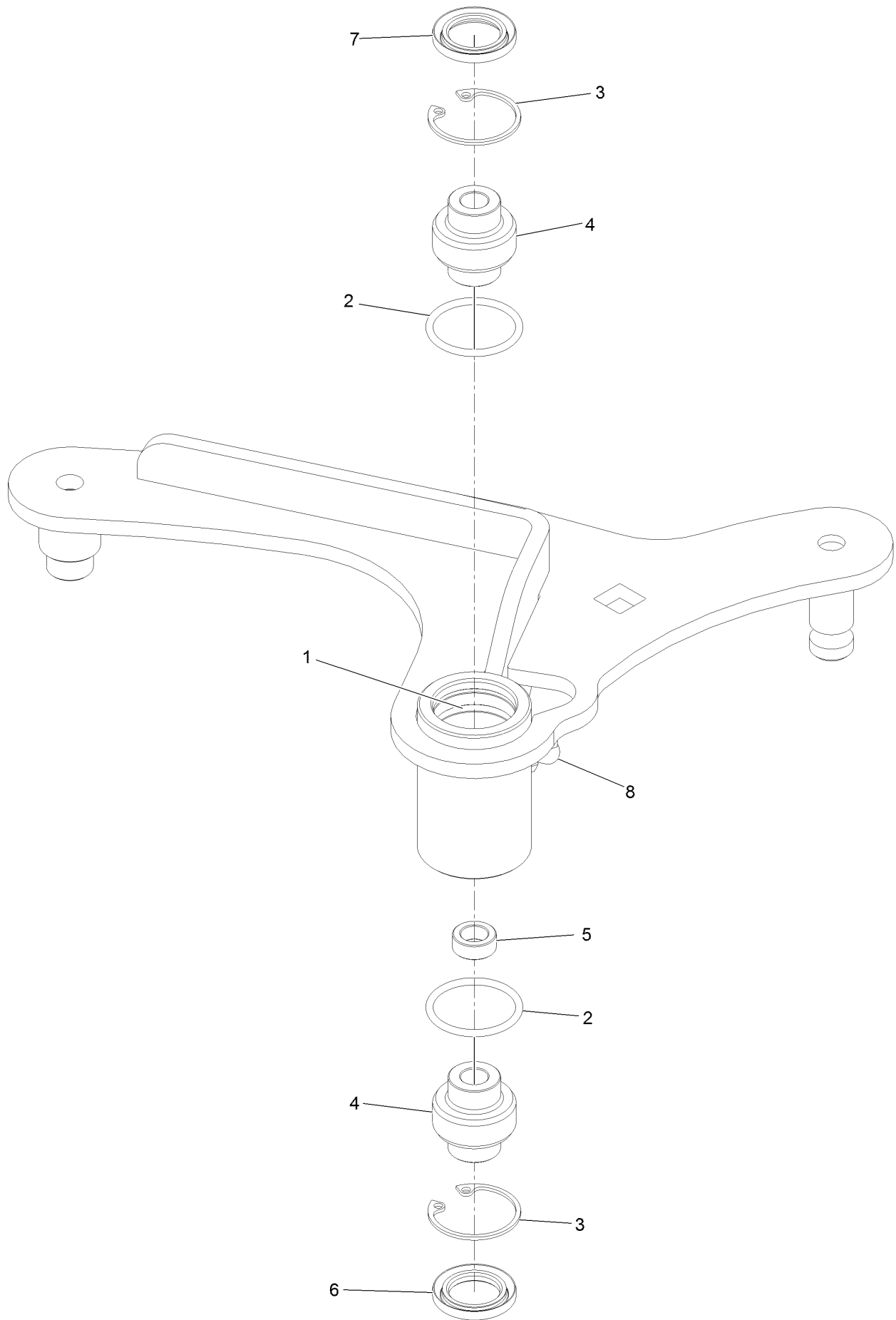


## Deck W/Decals Assembly (continued)

| <i>Ref.</i> | <i>Part Number</i> | <i>Qty.</i> | <i>Description</i>       |
|-------------|--------------------|-------------|--------------------------|
| 2           | 135-5210           | 2           | Decal-Warning Thrown Obj |
| 3           | 116-8727           | 1           | Decal-Belt Routing       |
| 4           | 116-8283           | 1           | Decal-Torque, Bolt       |

| <i>Ref.</i> | <i>Part Number</i> | <i>Qty.</i> | <i>Description</i>    |
|-------------|--------------------|-------------|-----------------------|
| 5           | 112-9028           | 3           | Decal-Cover, Missing  |
| 6           | 126-6587           | 1           | Decal, 484            |
| 7           | 142-3157           | 1           | Decal-Belt Guide Dist |

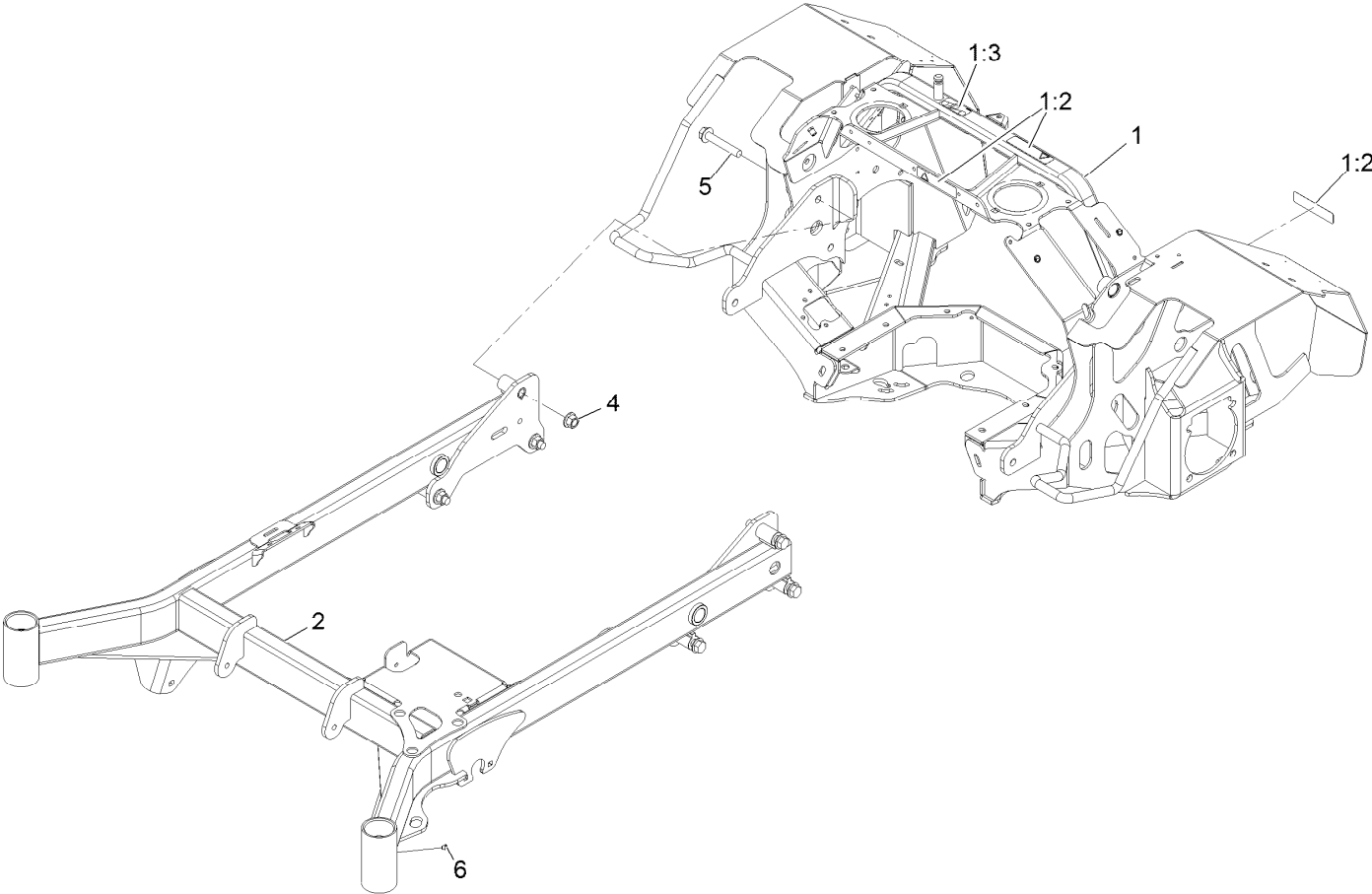
# Idler Arm Assembly



## Idler Arm 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           | 135-1936-03        | 1           | Weld, Idler Arm    | 5           | 103-5677           | 1           | Spacer             |
| 2           | 106-7159           | 2           | O-Ring             | 6           | 103-3505           | 1           | Seal-Lip, Double   |
| 3           | 32120-10           | 2           | Ring-Retaining     | 7           | 103-3506           | 1           | Seal-Single Lip    |
| 4           | 103-3504           | 2           | Bearing-Spherical  | 8           | 302-40             | 1           | Zerk-90° 1/4-28    |

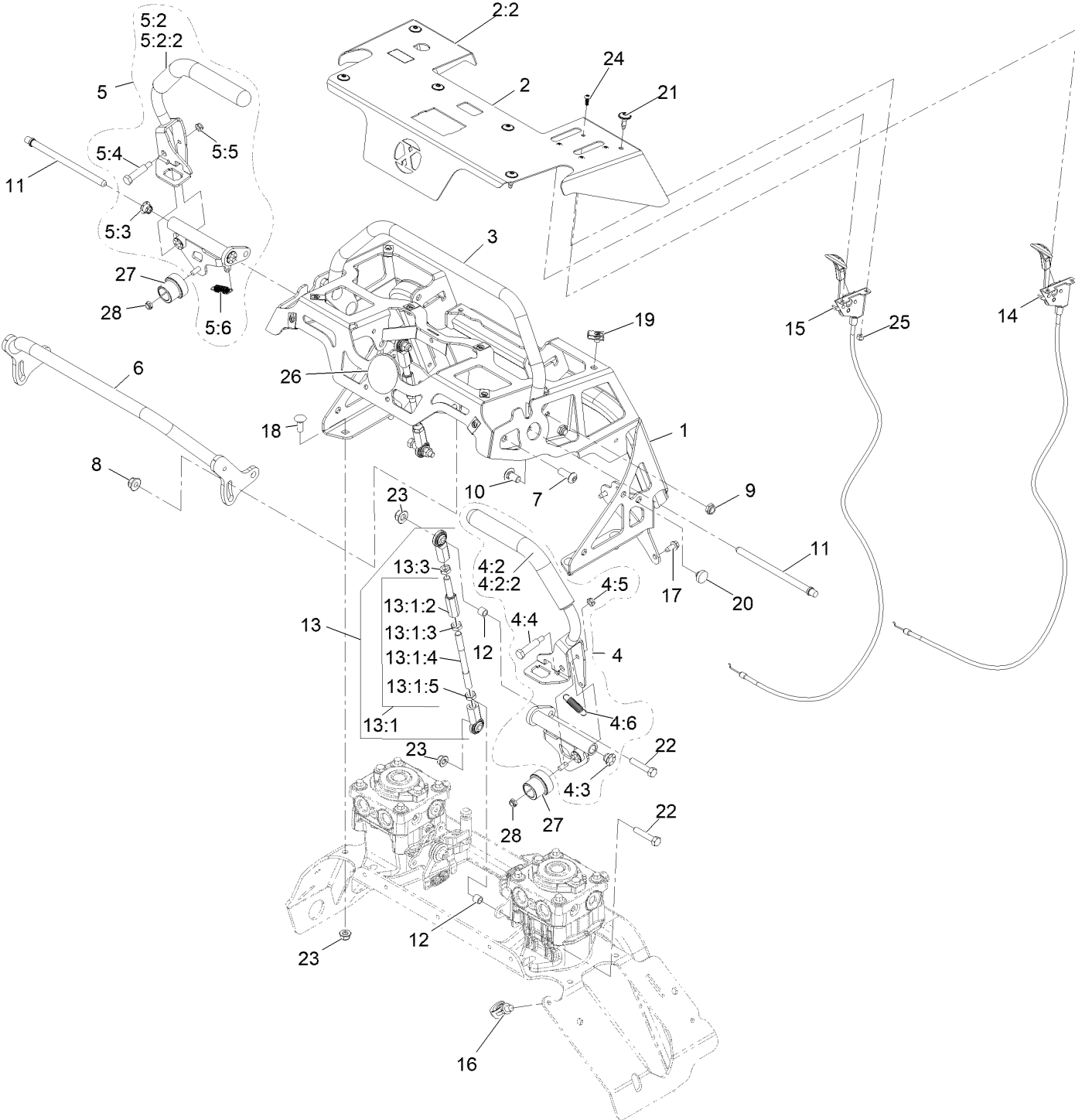
# Main Frame Assembly



## Main 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           | 142-2409           | 1           | ASM, Rear Frame W/<br>Decals | 2           | 135-1176-01        | 1           | Weld, Front Frame, 48/52 |
| 1:2         | 98-1977            | 3           | Decal-Warning                | 4           | 99-5107            | 6           | Nut-Lock 1/2-13          |
| 1:3         | 135-2267           | 1           | Decal-Belt Routing HYD       | 5           | 3234-40            | 6           | Screw-HF                 |
|             |                    |             |                              | 6           | 1-811010           | 2           | Plug                     |

# Controls Assembly

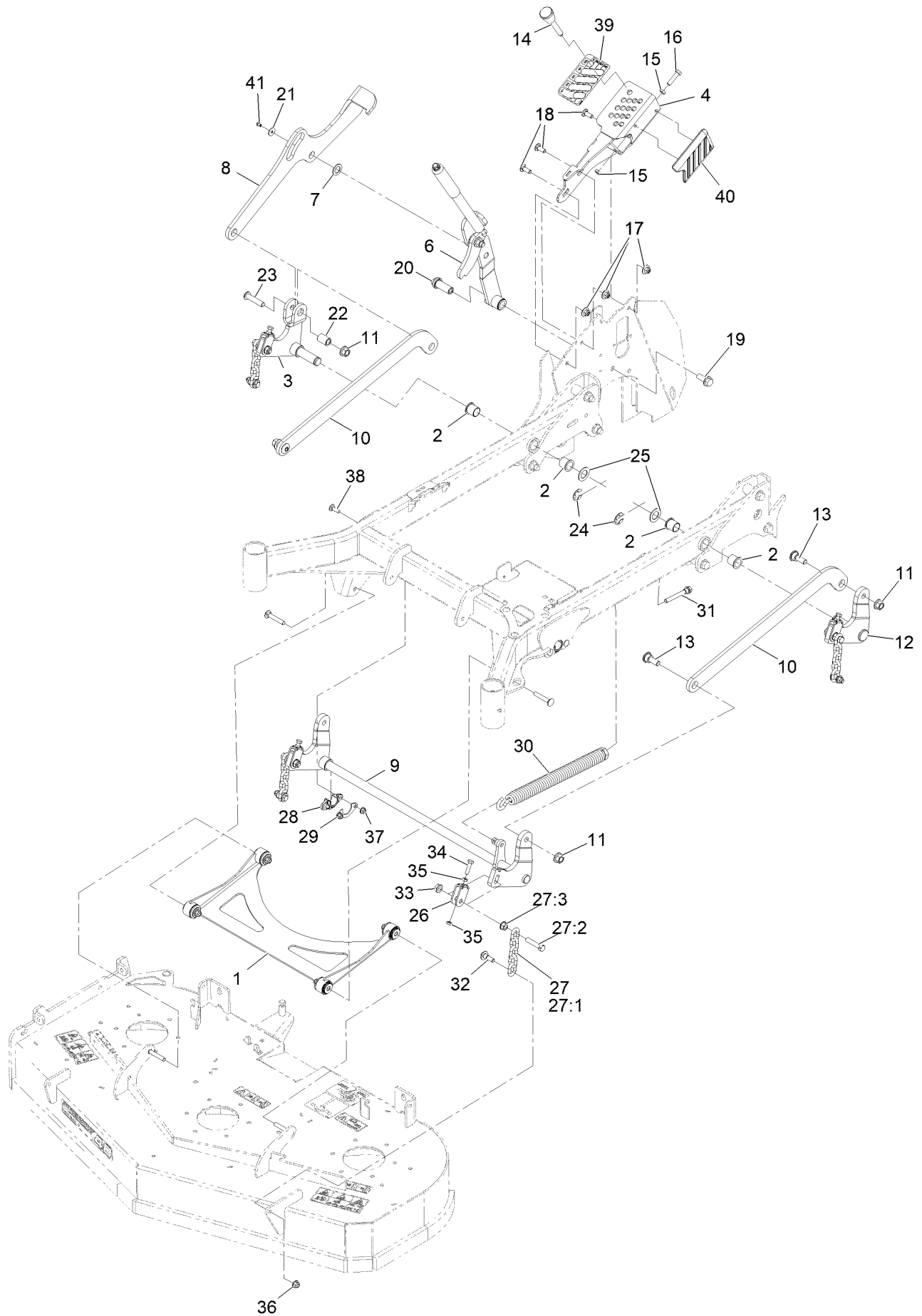


## Controls Assembly (continued)

| <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           | 135-4142           | 1           | ASM, Control Tower W/<br>Decal   | 9           | 3296-59            | 4           | Nut-Nyloc 3/8-16 Thin       |
| 2           | 135-2579           | 1           | ASM, Control Panel W/<br>Decals  | 10          | 3231-21            | 4           | Bolt-Carriage 3/8-16 X 3/4  |
| 2:2         | 135-6773           | 1           | Decal-Control Panel<br>Non-EFI   | 11          | 135-1277           | 2           | Pin, Pivot                  |
| 3           | 135-3430-05        | 1           | Weld, Rear Ref Bar               | 12          | 1-633545           | 4           | Spacer                      |
| 4           | 135-1304           | 1           | ASM, Motion Control, Lt          | 13          | 135-7116           | 2           | ASM, Linkage                |
| 4:2         | 135-2546           | 1           | ASM, Lt Control Lever W/<br>Grip | 13:1        |                    | 1           | ASM, Motion Control Link ●  |
| 4:2:2       | 135-3301           | 1           | Grip, Drive Lever                | 13:1:2      | 116-4755           | 1           | Rod-Adjustment              |
| 4:3         | 135-6412           | 4           | Bearing, Igus                    | 13:1:3      | 3220-16            | 1           | Nut-Jam 3/8-24 LH           |
| 4:4         | 121-1229           | 1           | Bolt-Shoulder                    | 13:1:4      | 135-1291           | 1           | Link, Motion Control        |
| 4:5         | 3296-56            | 1           | Nut-Nyloc 1/4-20 Thin            | 13:1:5      | 3220-3             | 1           | Nut-Jam 3/8-24              |
| 4:6         | 114-0249           | 1           | Spring-Extension                 | 13:3        | 3220-3             | 1           | Nut-Jam 3/8-24              |
| 5           | 135-1305           | 1           | ASM, Motion Control, Rt          | 14          | 135-2168           | 1           | Control, Choke              |
| 5:2         | 135-2547           | 1           | ASM, Rt Control Lever W/<br>Grip | 15          | 135-2169           | 1           | Control, Throttle           |
| 5:2:2       | 135-3301           | 1           | Grip, Drive Lever                | 16          | 32180-030          | 1           | Clip-Tie                    |
| 5:3         | 135-6412           | 4           | Bearing, Igus                    | 17          | 32144-10           | 4           | Screw-HWH 1/4-20 X .62      |
| 5:4         | 121-1229           | 1           | Bolt-Shoulder                    | 18          | 3230-16            | 4           | Bolt-Carriage 5/16-18 X 7/8 |
| 5:5         | 3296-56            | 1           | Nut-Nyloc 1/4-20 Thin            | 19          | 107069             | 8           | Nut-Retainer-Panel 1/4-20   |
| 5:6         | 114-0249           | 1           | Spring-Extension                 | 20          | 1-513658           | 2           | Bumper                      |
| 6           | 135-3432-05        | 1           | Weld, Front Ref Bar              | 21          | 135-3494           | 6           | Screw, Torx                 |
| 7           | 3274-94            | 2           | Screw-Button Head 3/8-16<br>X 1  | 22          | 322-8              | 4           | Screw-HH                    |
| 8           | 104-8301           | 2           | Nut-Nyloc 3/8-16 Flg             | 23          | 104-8300           | 8           | Nut-Nyloc 5/16-18 Flg       |
|             |                    |             |                                  | 24          | 135-3176           | 4           | Screw, BHCS                 |
|             |                    |             |                                  | 25          | 3296-2             | 4           | Nut-Nyloc #10-24            |
|             |                    |             |                                  | 26          | 135-2281           | 1           | Decal-Cover                 |
|             |                    |             |                                  | 27          | 126-1499           | 2           | Cam                         |
|             |                    |             |                                  | 28          | 3296-56            | 2           | Nut-Nyloc 1/4-20 Thin       |

● Not serviced separately

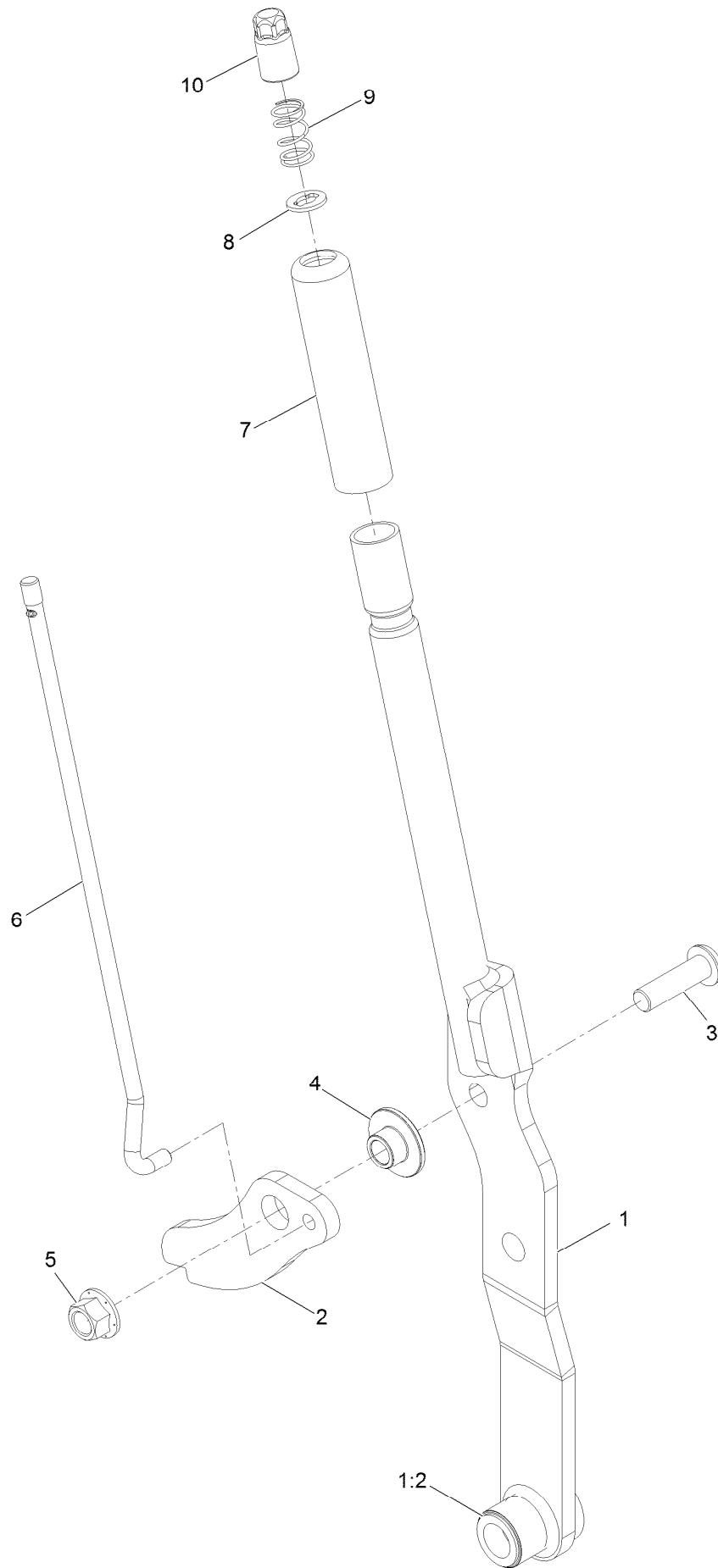
# Deck Lift Assembly



## Deck Lift 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           | 142-4364           | 1           | ASM, Deck Strut          | 24          | 32151-103          | 2           | E-Ring                        |
| 2           | 135-1248           | 4           | Bushing, Igus            | 25          | 119-2332           | 2           | Washer-Flat                   |
| 3           | 135-4586-03        | 1           | Weld, Bellcrank, Rt      | 26          | 109-9066           | 4           | Yoke-Adjust, Deck             |
| 4           | 142-2300-03        | 1           | Weld, HOC Index          | 27          | 116-0756           | 4           | Deck Lift Chain ASM           |
| 6           | 142-6677           | 1           | ASM- Lever HOC           | 27:1        | 1-633447           | 1           | Chain-Lift, Deck              |
| 7           | 119-7640           | 1           | Washer-Thrust            | 27:2        | 109-9065           | 1           | Screw-HH 7/16-14 X 2          |
| 8           | 142-3040-03        | 1           | Strap, HOC Index         | 27:3        | 32128-37           | 1           | Nut-Whizlock 7/16-14          |
| 9           | 135-4585-03        | 1           | Weld, HOC Cross Shaft    | 28          | 115-5065           | 2           | Bushing-Flange                |
| 10          | 135-1253-03        | 2           | Strap, HOC Lift          | 29          | 116-2887           | 2           | Gusset-Lift, Deck             |
| 11          | 99-5107            | 4           | Nut-Lock 1/2-13          | 30          | 116-0886           | 1           | Spring-Extension              |
| 12          | 135-4587-03        | 1           | Weld, Bellcrank          | 31          | 92-7674            | 1           | Screw-Shcs 3/8-16 X 2.212     |
| 13          | 135-1259           | 3           | Bolt, Shoulder           | 32          | 109-9840           | 4           | Screw-Hex Flange 3/8-16 X .80 |
| 14          | 126-5401           | 1           | Pin-HOC                  | 33          | 32128-37           | 4           | Nut-Whizlock 7/16-14          |
| 15          | 3218-3             | 2           | Nut-Jam 3/8-16           | 34          | 322-47             | 4           | Screw-HH 5/16-18 X 1 1/4      |
| 16          | 323-50             | 1           | Bolt-HH                  | 35          | 3218-2             | 8           | Nut-Jam 5/16-18               |
| 17          | 109-6658           | 3           | Nut-Nyloc 3/8-16 Flg     | 36          | 104-8301           | 4           | Nut-Nyloc 3/8-16 Flg          |
| 18          | 3231-22            | 3           | Bolt-Carriage 3/8-16 X 1 | 37          | 104-8300           | 4           | Nut-Nyloc 5/16-18 Flg         |
| 19          | 3234-38            | 1           | Screw-HHF 1/2-13 X 1 1/4 | 38          | 3230-2             | 4           | Bolt-Carriage 5/16-18 X 1     |
| 20          | 142-2181           | 1           | Pivot, HOC Lever         | 39          | 135-2280           | 1           | Decal-Height Of Cut           |
| 21          | 3256-67            | 1           | Washer                   | 40          | 135-5337           | 1           | Pad, Knee                     |
| 22          | 135-3944           | 1           | Spacer, HOC              | 41          | 142-2216           | 1           | Screw, 1/4-20 X 3/8 PH Torx   |
| 23          | 135-3945           | 1           | Screw-HSBH               |             |                    |             |                               |

# Height of Cut Lever Assembly

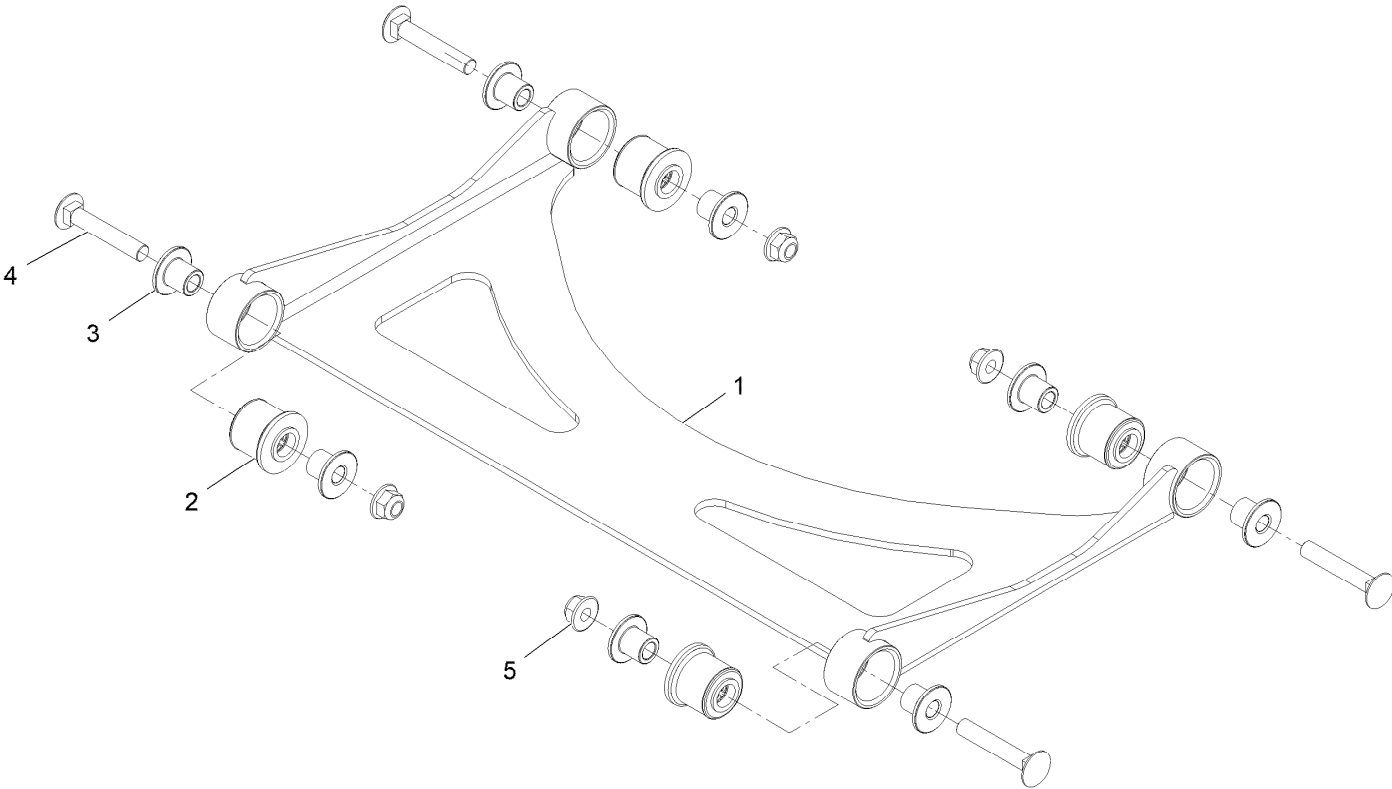


## Height of Cut Lever Assembly (continued)

| <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           | ASM, HOC Lever ●              | 5           | 99-5107            | 1           | Nut-Lock 1/2-13    |
| 1           | 135-7939           | 1           | ASM, HOC Lever W/<br>Bushings | 6           | 135-1260           | 1           | Linc, HOC          |
| 1:2         | 109-8054           | 2           | Bushing-Flanged               | 7           | 115-3592           | 1           | Grip               |
| 2           | 135-1209           | 1           | Arm, Transport Lock           | 8           | 114-1207           | 1           | Washer-Special     |
| 3           | 108-1993           | 1           | Screw-HSBH                    | 9           | 114-8187           | 1           | Spring-Compression |
| 4           | 135-3954           | 1           | Spacer                        | 10          | 135-7809           | 1           | Button, Push       |

● Not serviced separately

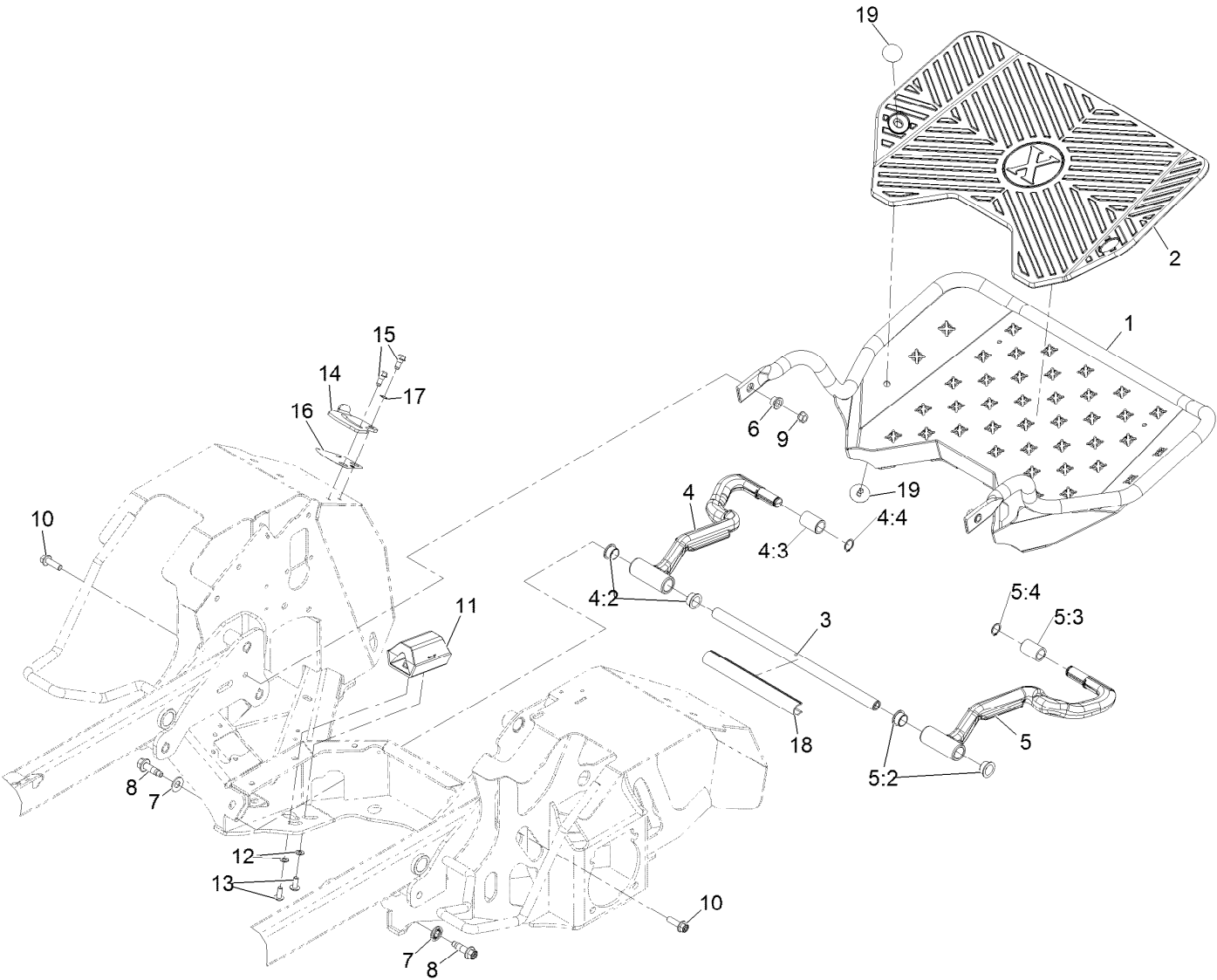
# Deck Strut Assembly



## Deck Strut 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           | 142-4363-03        | 1           | Weld, Deck Strut   | 4           | 3231-7             | 4           | Bolt-Carriage 3/8-16 X 2 1/4 |
| 2           | 137-4108           | 4           | Bushing-Rubber     | 5           | 104-8301           | 4           | Nut-Nyloc 3/8-16 Flg         |
| 3           | 142-4319           | 8           | Spacer, Strut      |             |                    |             |                              |

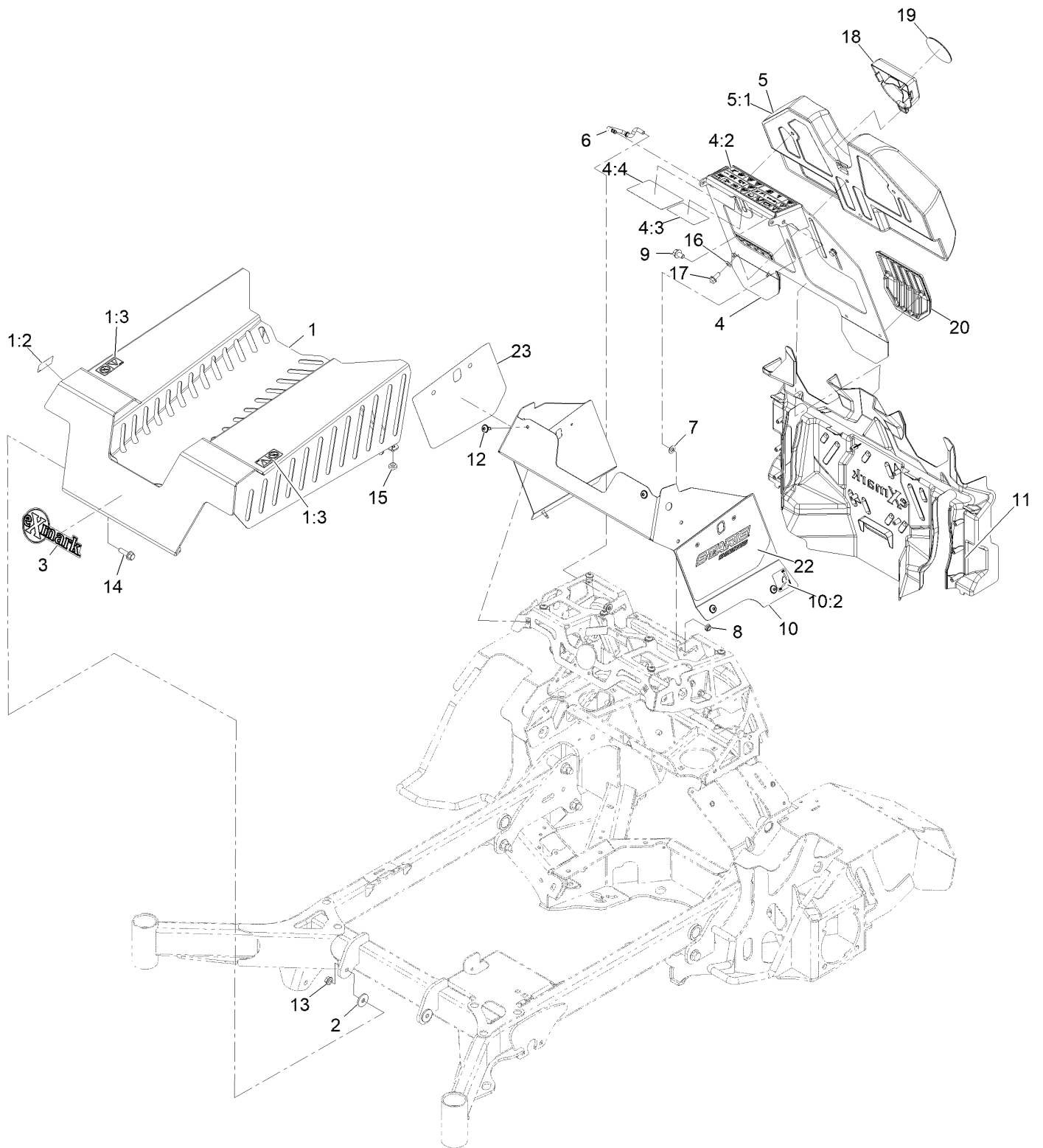
# Platform Assembly



## Platform 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           | 142-2748-05        | 1           | Weld, Platform          | 9           | 32128-21           | 2           | Nut-3/8-16 Flanged Side  |
| 2           | 142-3129           | 1           | Mat, Platform           |             |                    |             | Lock                     |
| 3           | 135-1336           | 1           | Shaft, Cross            | 10          | 135-4712           | 2           | Screw, HHF               |
| 4           | 135-2237           | 1           | ASM, Rt Arm W/ Bushings | 11          | 135-3993           | 2           | Bumper                   |
| 4:2         | 109-8054           | 2           | Bushing-Flanged         | 12          | 3255-8             | 4           | Washer-Lock 5/16         |
| 4:3         | 135-6438           | 1           | Bushing, Sleeve         |             |                    |             | (Ext-Tooth)              |
| 4:4         | 32120-72           | 1           | Ring-Snap               | 13          | 126-6268           | 4           | Screw-Truss HD 5/16-18 X |
| 5           | 135-2236           | 1           | ASM, Lt Arm W/ Bushings |             |                    |             | 3/4 Torx Plus            |
| 5:2         | 109-8054           | 2           | Bushing-Flanged         | 14          | 142-2492-03        | 1           | Latch, Platform          |
| 5:3         | 135-6438           | 1           | Bushing, Sleeve         | 15          | 126-4424           | 2           | Screw-Shoulder           |
| 5:4         | 32120-72           | 1           | Ring-Snap               | 16          | 135-5206           | 1           | Decal-Latch Lock         |
| 6           | 109-8788           | 2           | Bushing-Flanged         | 17          | 142-2432           | 1           | Washer, Wave             |
| 7           | 1-603610           | 2           | Washer-Spring Disc 7/16 | 18          | 135-7563           | 1           | Keeper                   |
| 8           | 135-7001           | 2           | Screw-HHF               | 19          | 142-3247           | 4           | Rivet-Ratchet            |

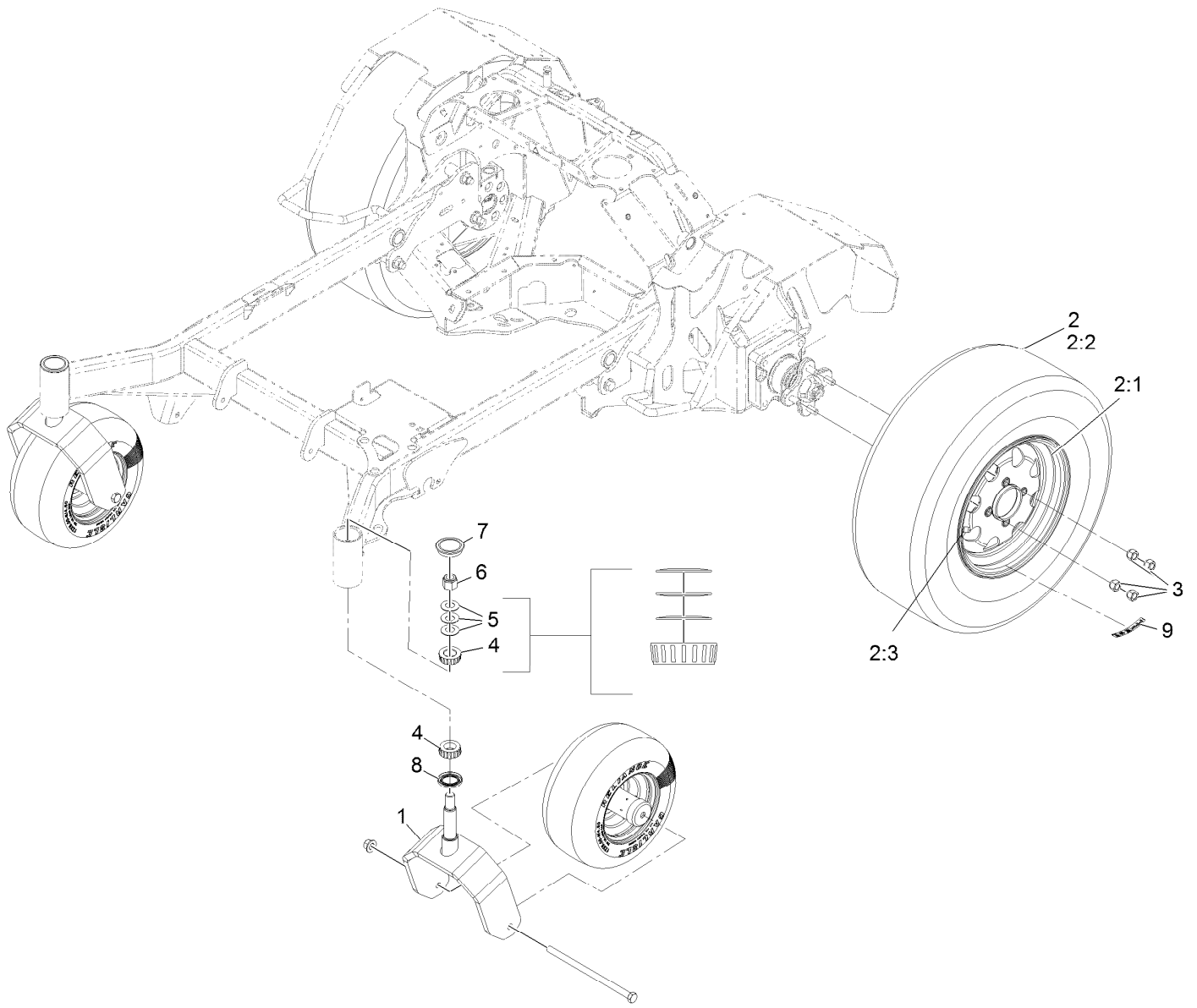
# Guarding Assembly



## Guarding 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           | 135-2163           | 1           | ASM, Front Cover W/ Decals | 10          | 135-2164           | 1           | ASM, Tower Skin W/ Decals    |
| 1:2         | 106-5517           | 1           | Decal-Warning              | 10:2        | 116-5988           | 1           | Decal-Park Brake, CE         |
| 1:3         | 119-6807           | 2           | Decal-Warning              | 11          | 142-2752           | 1           | Panel, Heat Deflector        |
| 2           | 107675             | 2           | Washer                     | 12          | 135-3494           | 6           | Screw, Torx                  |
| 3           | 126-6877           | 1           | Decal, Exmark Logo         | 13          | 32128-21           | 2           | Nut-3/8-16 Flanged Side Lock |
| 4           | 135-2162           | 1           | ASM, Pad Backing W/ Decals | 14          | 119-4061           | 2           | Screw-HHF 3/8-16 X 1 1/4     |
| 4:2         | 135-2412           | 1           | Decal-Warning              | 15          | 1-513658           | 2           | Bumper                       |
| 4:3         | 116-8253           | 1           | Decal-Drive Release        | 16          | 3290-475           | 3           | Washer-Belleville            |
| 4:4         | 135-2266           | 1           | Decal-Service Aid          | 17          | 100-1668           | 3           | Screw-HHF                    |
| 5           | 135-1320           | 1           | Pad, Thigh                 | 18          | 135-2596           | 1           | Insert, Pad                  |
| 5:1         | 135-6556           | 1           | Cover, Pad                 | 19          | 135-2714           | 1           | Decal-X Logo Badge 3 In      |
| 6           | 135-1611           | 1           | Rod, Prop                  | 20          | 135-5107           | 2           | Pad, Knee                    |
| 7           | 131-8667           | 2           | Washer-Thrust              | 22          | 135-6809           | 1           | Decal-Staris Logo Lt         |
| 8           | 3296-59            | 2           | Nut-Nyloc 3/8-16 Thin      | 23          | 135-6810           | 1           | Decal-Staris Logo Rt         |
| 9           | 3234-9             | 2           | Screw-HHF                  |             |                    |             |                              |

# Drive Wheel Assembly

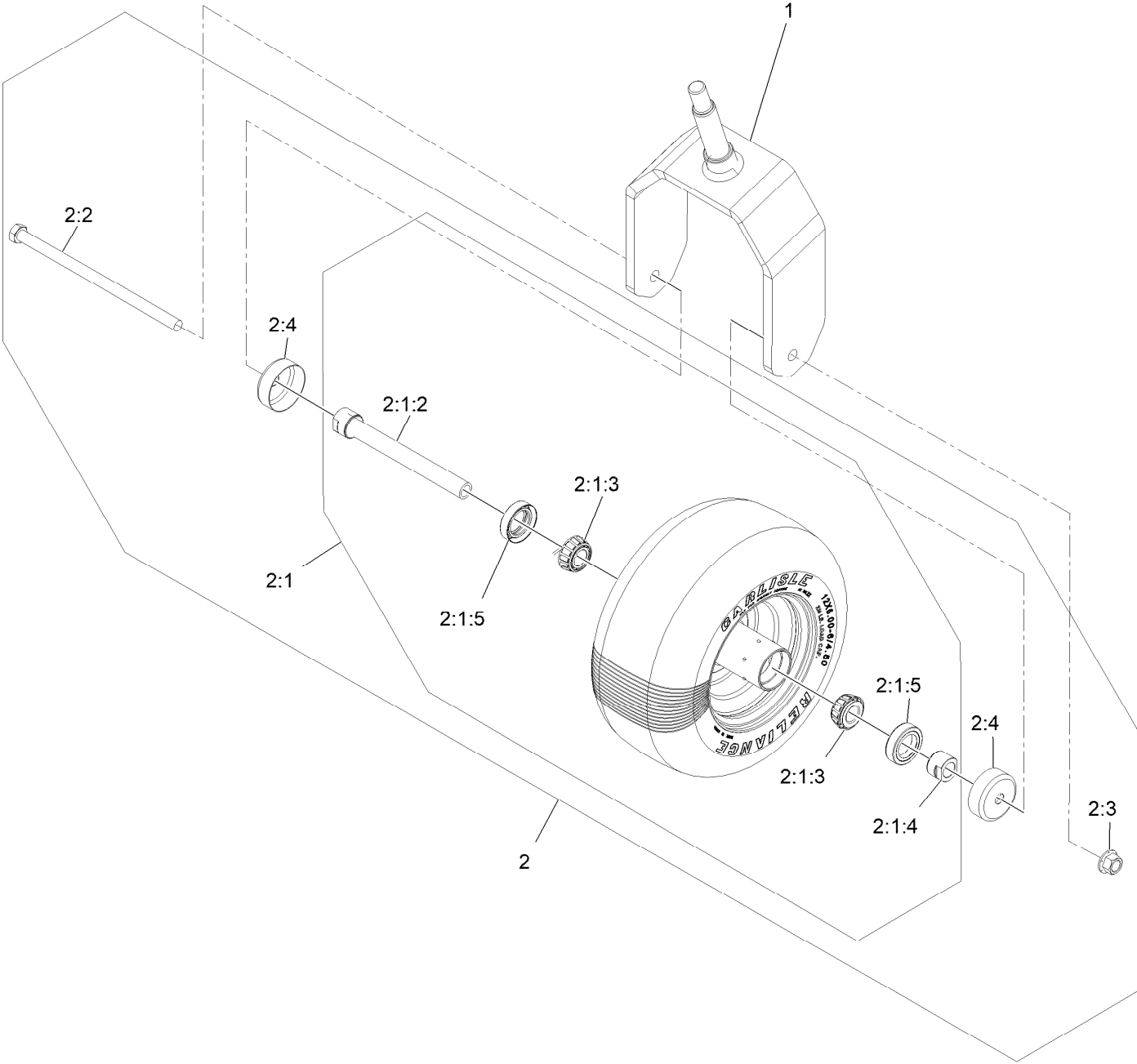


## Drive Wheel Assembly (continued)

| <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           |                    | 2           | ASM, Caster, 12X6-6 ●          | 5           | 1-633508           | 6           | Washer-Spring Disc      |
| 2           | 135-2174           | 2           | ASM, Wheel And Tire            | 6           | 3296-51            | 2           | Nut-Nyloc 3/4-10        |
| 2:1         | 109-3645           | 1           | Rim ASM                        | 7           | 103-4882           | 2           | Cap-Grease              |
| 2:2         | 135-2171           | 1           | Tire, 23 X 8.50-12             | 8           | 116-5647           | 2           | Seal-Grease             |
| 2:3         | 232-27             | 1           | Stem-Valve                     | 9           | 126-2055           | 2           | Decal-Torque, Wheel Hub |
| 3           | 242-50             | 8           | Nut-Lug 1/2-20                 |             |                    |             | Lug                     |
| 4           | 1-543509           | 4           | Cone-Bearing Tapered<br>Roller |             |                    |             |                         |

● Not serviced separately

# Caster Wheel Assembly

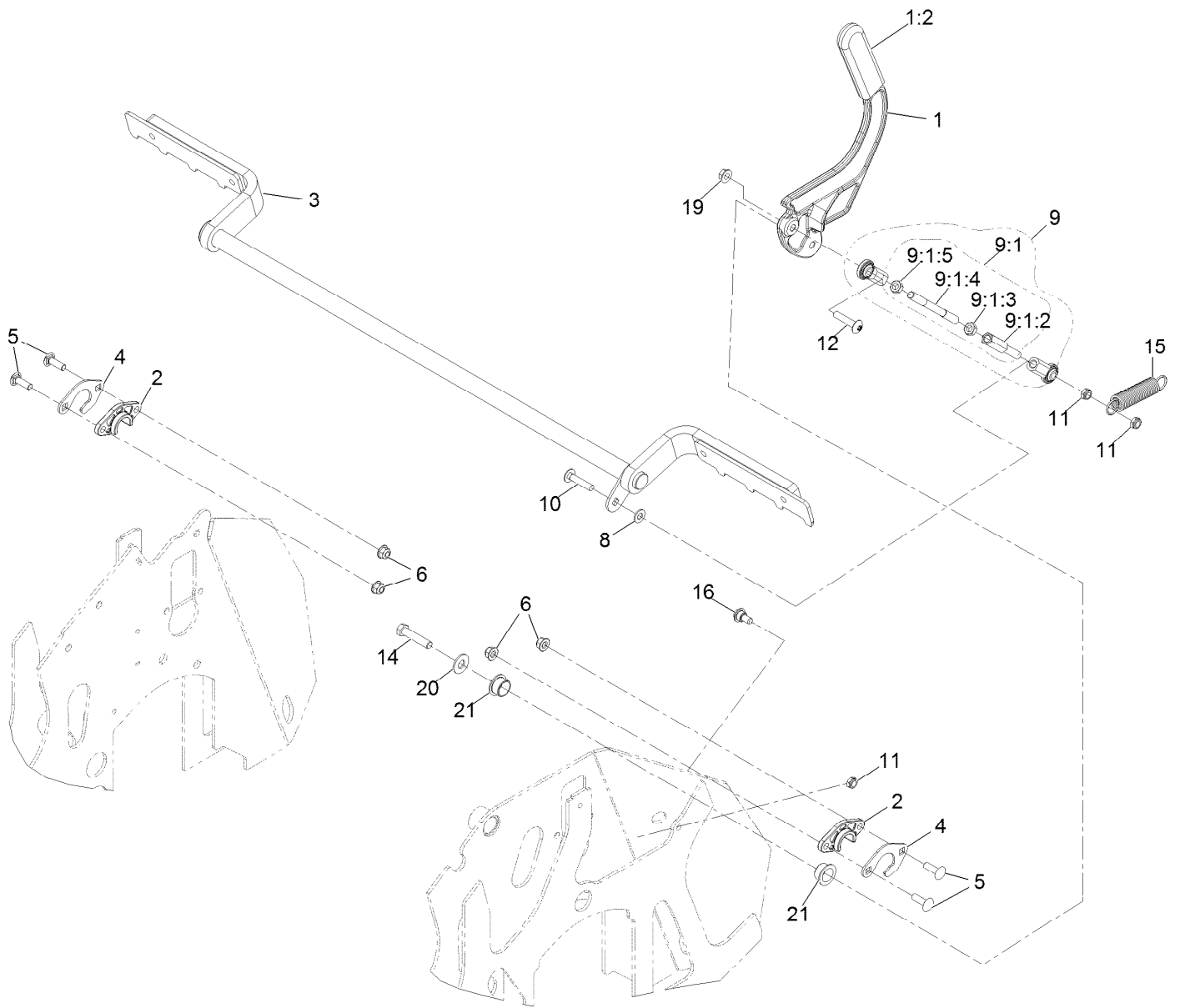


## Caster Wheel Assembly (continued)

| <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           | 142-4254-01        | 1           | Weld, Caster Fork              | 2:1:4       | 103-3051           | 1           | Spacer-Nut              |
| 2           | 135-2148           | 1           | ASM, Caster W/ Axle            | 2:1:5       | 103-0063           | 2           | Seal-Double Lip         |
| 2:1         |                    | 1           | ASM, Caster W/ Bearings ●      | 2:2         | 325-39             | 1           | Screw-HH 1/2-13 X 9 1/2 |
| 2:1:2       | 126-5361           | 1           | Axle Caster ASM                | 2:3         | 99-5107            | 1           | Nut-Lock 1/2-13         |
| 2:1:3       | 1-633585           | 2           | Bearing-Cone Tapered<br>Roller | 2:4         | 103-2768           | 2           | Guard-Seal              |

● Not serviced separately

# Park Brake Assembly

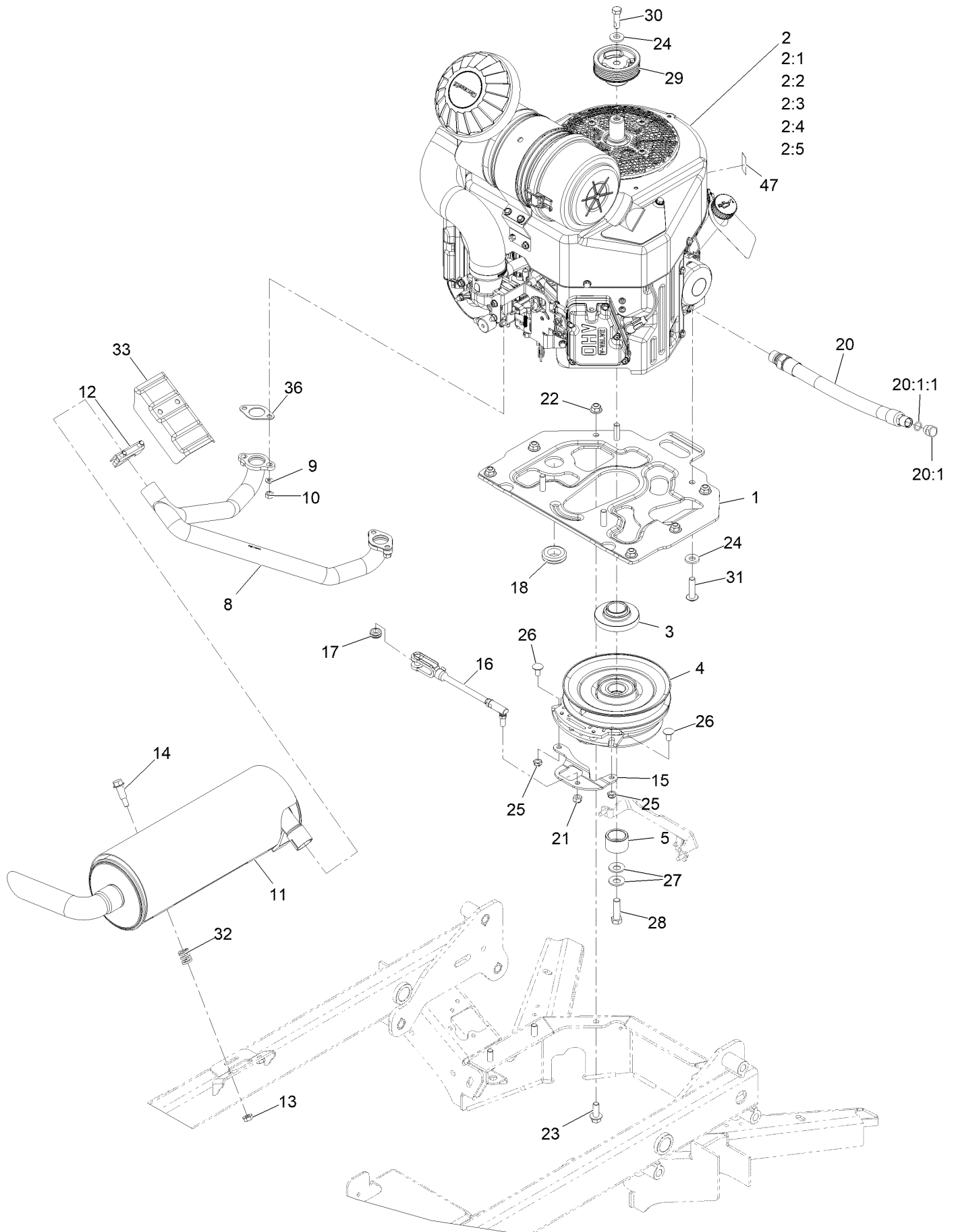


## Park Brake Assembly (continued)

| <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           | 142-2413           | 1           | ASM, Brake Lever W/ Grip     | 9:1:5       | 3220-3             | 1           | Nut-Jam 3/8-24                           |
| 1:2         | 1-633268           | 1           | Grip-Lever                   | 10          | 3230-4             | 1           | Bolt-Carriage 5/16-18 X 1 1/2            |
| 2           | 115-5065           | 2           | Bushing-Flange               | 11          | 3296-47            | 3           | Nut-Nyloc 5/16-18 Thin                   |
| 3           | 142-3739-03        | 1           | Weld-Brake Shaft             | 12          | 126-7439           | 1           | Screw-Truss HD 5-16-18 X 1 1/2 Torx Plus |
| 4           | 135-7867           | 2           | Support, Bearing             | 14          | 323-52             | 1           | Screw-HH 3/8-16 X 1 3/4                  |
| 5           | 3230-22            | 4           | Bolt-Carriage 5/16-18 X 1 Sp | 15          | 1-323161           | 1           | Spring                                   |
| 6           | 104-8300           | 4           | Nut-Nyloc 5/16-18 Flg        | 16          | 120-9471           | 1           | Screw-Shoulder Bh 5/16-18 X 1/2 Tf Torx  |
| 8           | 3256-23            | 1           | Washer-5/16 SAE              | 19          | 32128-25           | 1           | Nut-Hex 5/16-18 Side Lock                |
| 9           | 135-7116           | 1           | ASM, Linkage                 | 20          | 3256-4             | 1           | Washer-3/8 Std                           |
| 9:1         |                    | 1           | ASM, Motion Control Link ●   | 21          | 135-7091           | 2           | Bushing, Igus                            |
| 9:1:2       | 116-4755           | 1           | Rod-Adjustment               |             |                    |             |                                          |
| 9:1:3       | 3220-16            | 1           | Nut-Jam 3/8-24 LH            |             |                    |             |                                          |
| 9:1:4       | 135-1291           | 1           | Link, Motion Control         |             |                    |             |                                          |

● Not serviced separately

# Engine Assembly



## Engine Assembly (continued)

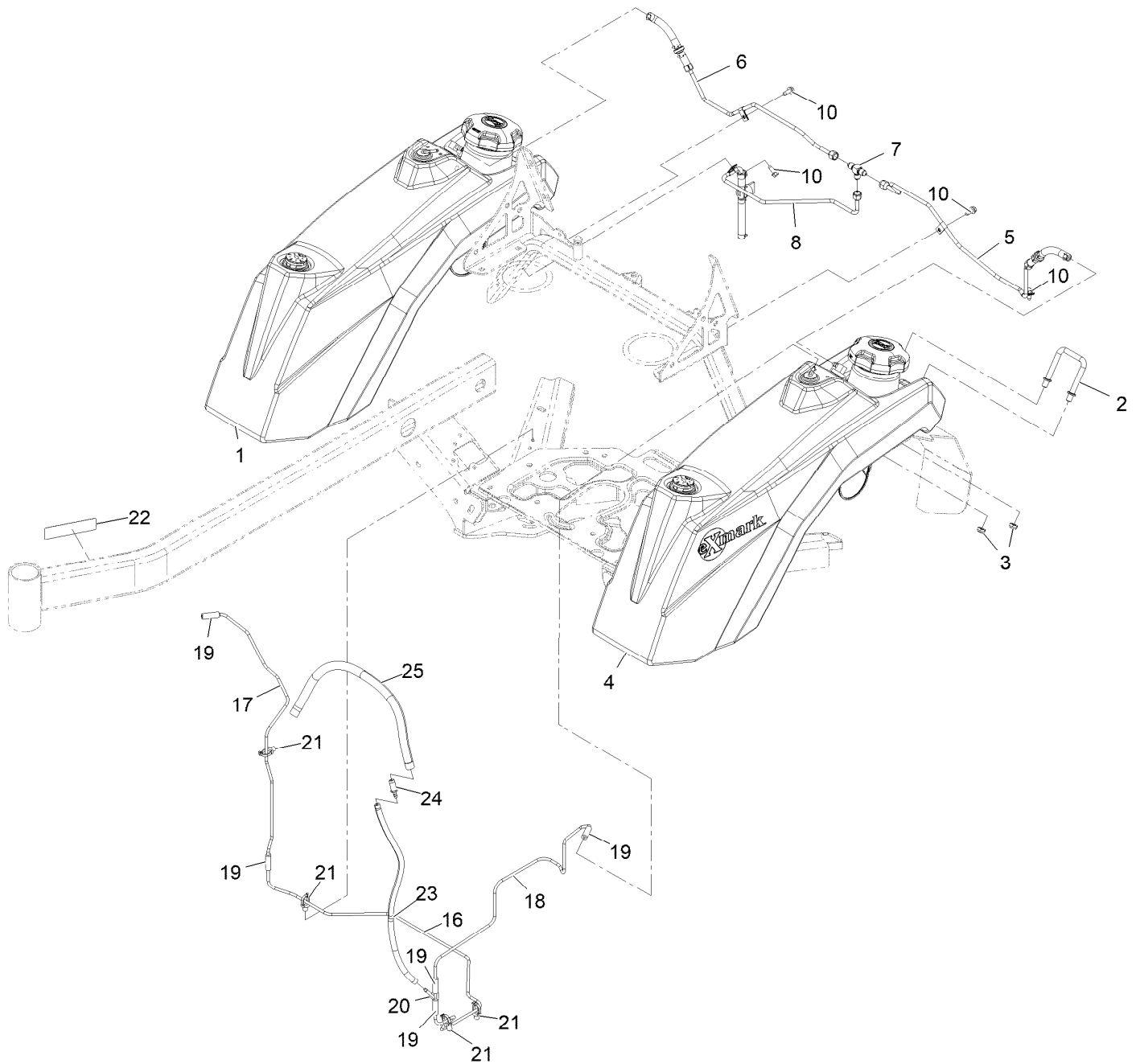
| <i>Ref.</i> | <i>Part Number</i> | <i>Qty.</i> | <i>Description</i>        | <i>Ref.</i> | <i>Part Number</i> | <i>Qty.</i> | <i>Description</i>        |
|-------------|--------------------|-------------|---------------------------|-------------|--------------------|-------------|---------------------------|
| 1           | 135-1615-03        | 1           | Plate, Engine             | 16          | 126-0620           | 1           | ASM, Clutch Anchor        |
| 2           |                    | 1           | Engine, Kawasaki Fx651 ■▲ | 17          | 237-136            | 1           | Grommet                   |
| 2:1         |                    | 1           | Kawasaki 49065-7007       | 18          | 1-543286           | 1           | Grommet                   |
|             |                    |             | Engine Oil Filter ■▲      | 20          | 116-4924           | 1           | Engine Oil Drain Hose ASM |
| 2:2         |                    | 1           | Kawasaki 49019-0031 Fuel  | 20:1        | 353-508            | 1           | Plug-HH ●                 |
|             |                    |             | Filter ■▲                 | 20:1:1      | 237-42             | 1           | O-Ring                    |
| 2:3         |                    | 1           | Kawasaki 92070-7004       | 21          | 3296-4             | 1           | Nut-Lock                  |
|             |                    |             | Plug-Spark Bpr4ES ■▲      | 22          | 104-8301           | 6           | Nut-HF, NI                |
| 2:4         |                    | 1           | Kawasaki 11013-7045       | 23          | 3234-42            | 6           | Screw-HHF                 |
|             |                    |             | Pre-Filter ■▲             | 24          | 98-5975            | 5           | Washer-Belleville         |
| 2:5         |                    | 1           | Kawasaki 11013-7044 Air   | 25          | 3296-47            | 2           | Nut-Lock, NI              |
|             |                    |             | Filter ■▲                 | 26          | 3230-18            | 2           | Screw-CARR                |
| 3           | 142-3593           | 1           | Spacer, Clutch 1.13       | 27          | 1-603610           | 2           | Washer-Spring             |
| 4           | 142-3587           | 1           | Clutch                    | 28          | 109-9761           | 1           | Screw-HH                  |
| 5           | 135-1308           | 1           | Spacer, Clutch            | 29          | 135-1198           | 1           | Pulley, Crank             |
| 8           | 135-5094           | 1           | Header, Kawaswaki         | 30          | 135-7890           | 1           | Screw-HH, Patch,          |
| 9           | 114-3550           | 4           | Washer-Lock               | 31          | 126-0983           | 4           | Screw-BHTF                |
| 10          | 114-3549           | 4           | Nut                       | 32          | 135-6667           | 2           | Spring, Compression       |
| 11          | 142-3577           | 1           | Muffler, 5"               | 33          | 135-7527           | 1           | Shield, Heat              |
| 12          | 104-4090           | 1           | Clamp-Muffler             | 36          | 1-653313           | 2           | Gasket-Exhaust            |
| 13          | 32128-25           | 4           | Nut-HF                    | 47          | 135-6844           | 1           | Decal-10W-50 Oil          |
| 14          | 130-2344           | 2           | Bolt-Shoulder             |             |                    |             |                           |
| 15          | 135-1589           | 1           | Strap, Clutch             |             |                    |             |                           |

● Torque to 24-26 ft-lb

▲ Obtain parts from [www.kawpower.com](http://www.kawpower.com)

■ Not serviced separately

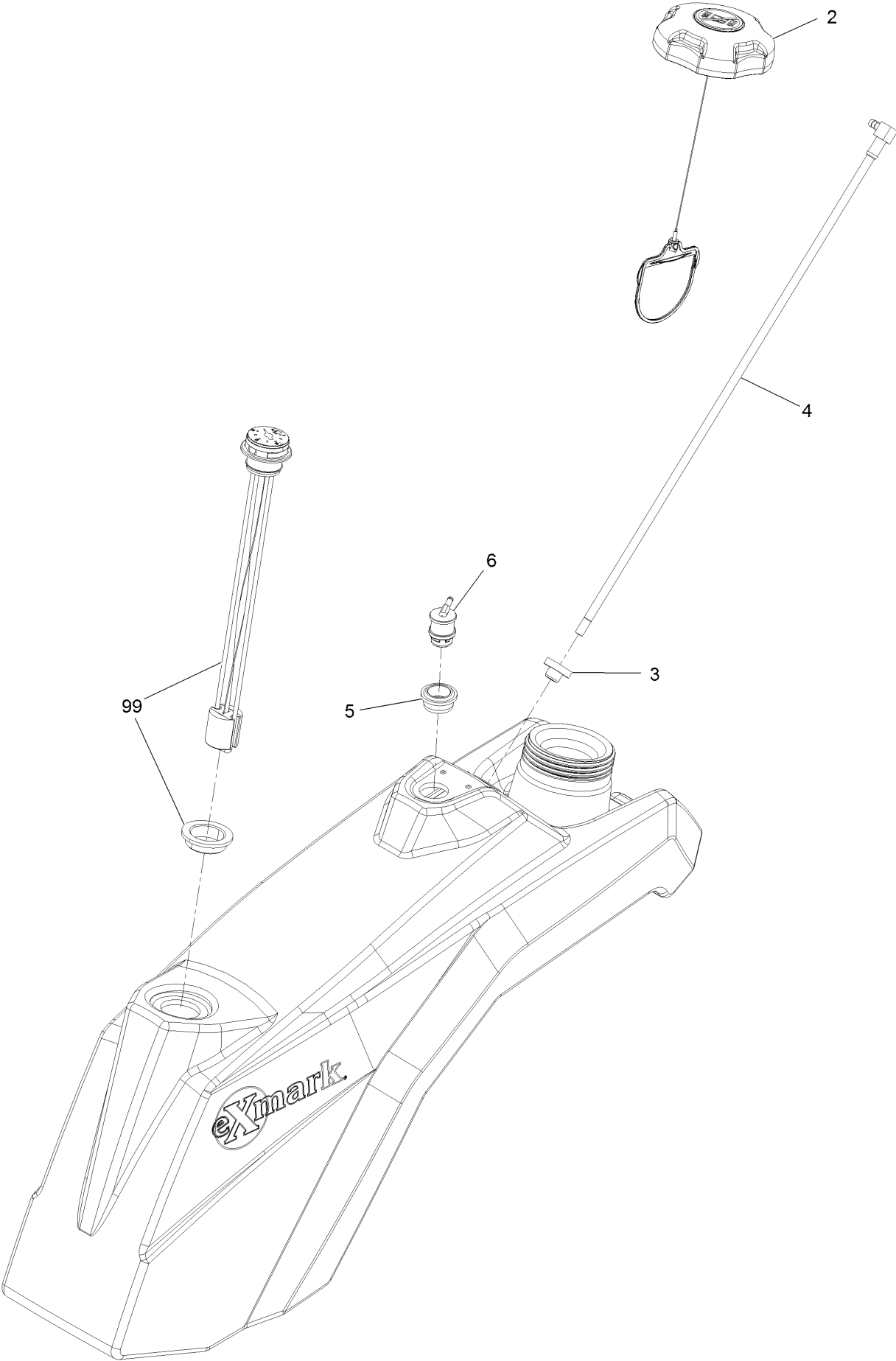
# Fuel Assembly



## 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           | 135-2227           | 1           | ASM, Rt Fuel Tank      | 17          | 135-2221           | 1           | Line, Vent, Right     |
| 2           | 135-7299           | 2           | Clamp, Tank            | 18          | 135-7097           | 1           | Line, Vent, Left      |
| 3           | 3296-59            | 4           | Nut-Nyloc 3/8-16 Thin  | 19          | 51-3216            | 5           | Hose-Fuel             |
| 4           | 135-2225           | 1           | ASM, Lt Fuel Tank      | 20          | 135-2222           | 1           | Fitting, 3/16" Y      |
| 5           | 142-3597           | 1           | ASM, Left Fuel Line    | 21          | 32180-030          | 4           | Clip-Tie              |
| 6           | 142-3598           | 1           | ASM, Right Fuel Line   | 22          | 133-8062           | 1           | Decal-Arrestor, Spark |
| 7           | 135-2203           | 1           | Fitting, 2603-4-4-4    | 23          | 135-3950           | 1           | Hose, Vent            |
| 8           | 142-3599           | 1           | ASM, Kaw Fuel Line     | 24          | 98-2952            | 1           | Fitting-Straight      |
| 10          | 32144-10           | 5           | Screw-HWH 1/4-20 X .62 | 25          | 116-5087           | 1           | Hose-Fuel             |
| 16          | 135-2219           | 1           | Line, Vent, Main       |             |                    |             |                       |

# Left and Right Fuel Tank Assembly

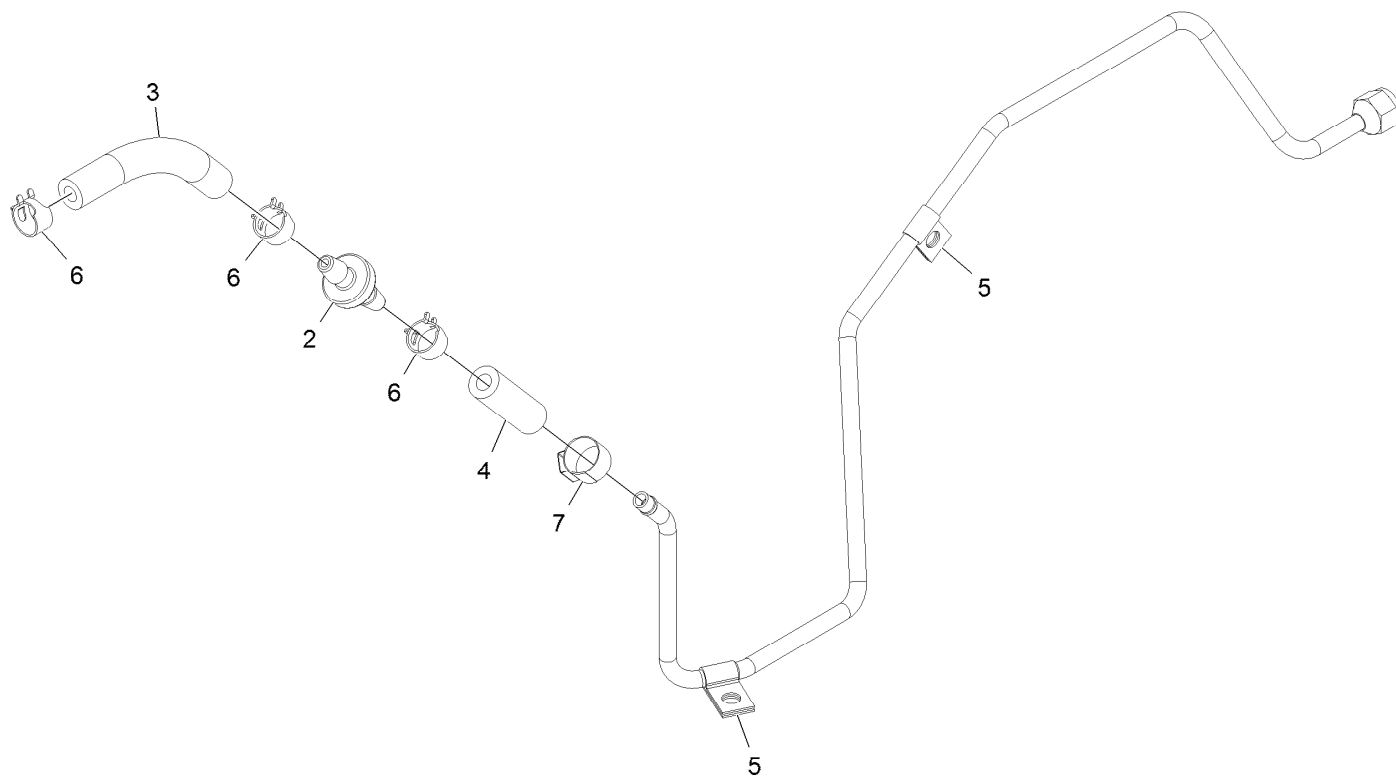


## Left and Right Fuel Tank Assembly (continued)

| <i>Ref.</i> | <i>Part Number</i> | <i>Qty.</i> | <i>Description</i>   |
|-------------|--------------------|-------------|----------------------|
| 2           | 137-4119           | 1           | Cap-Fuel, Ratcheting |
| 3           | 46-6560            | 1           | Bushing              |
| 4           | 135-1916           | 1           | Straw, Fuel, Short   |

| <i>Ref.</i> | <i>Part Number</i> | <i>Qty.</i> | <i>Description</i> |
|-------------|--------------------|-------------|--------------------|
| 5           | 114-0284           | 1           | Grommet            |
| 6           | 119-3547           | 1           | Valve-Vent, Fuel   |
| 99          | 135-3987           | 1           | Kit, Fuel Gauge    |

# Left Fuel Line Assembly

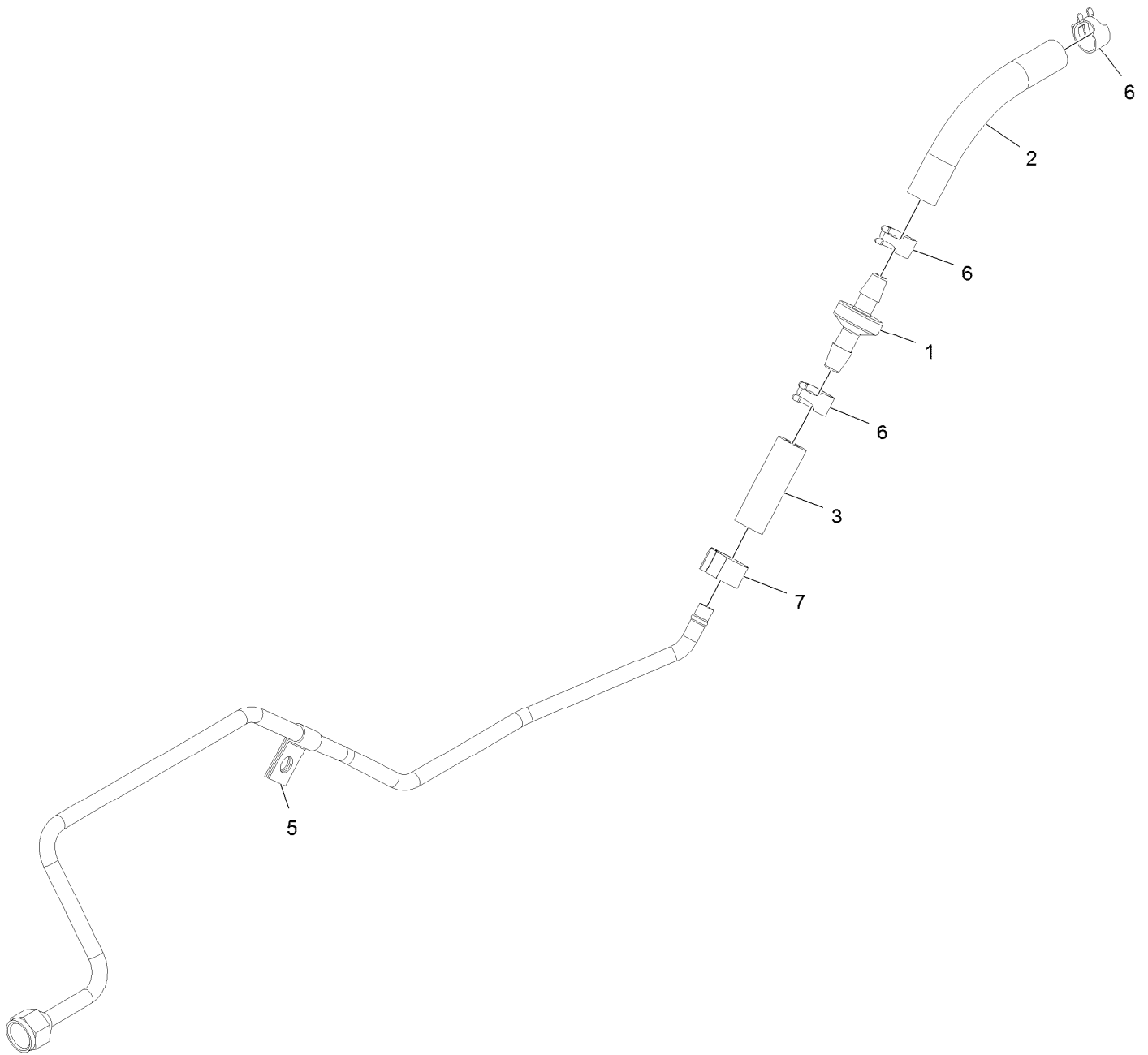


## Left Fuel Line Assembly (continued)

| <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>     |
|-------------|--------------------|-------------|--------------------|-------------|--------------------|-------------|------------------------|
| 2           | 99-5000            | 1           | Valve-Check, Fuel  | 5           | 2412-72            | 2           | Clip-Closed, Insulated |
| 3           | 105-8342           | 1           | Hose-Fuel          | 6           | 2412-98            | 3           | Clamp-Hose             |
| 4           |                    | 1           | Hose-Fuel ●        | 7           |                    | 1           | Clamp-Hose, Fuel ●     |

● Not serviced separately

# Right Fuel Line Assembly



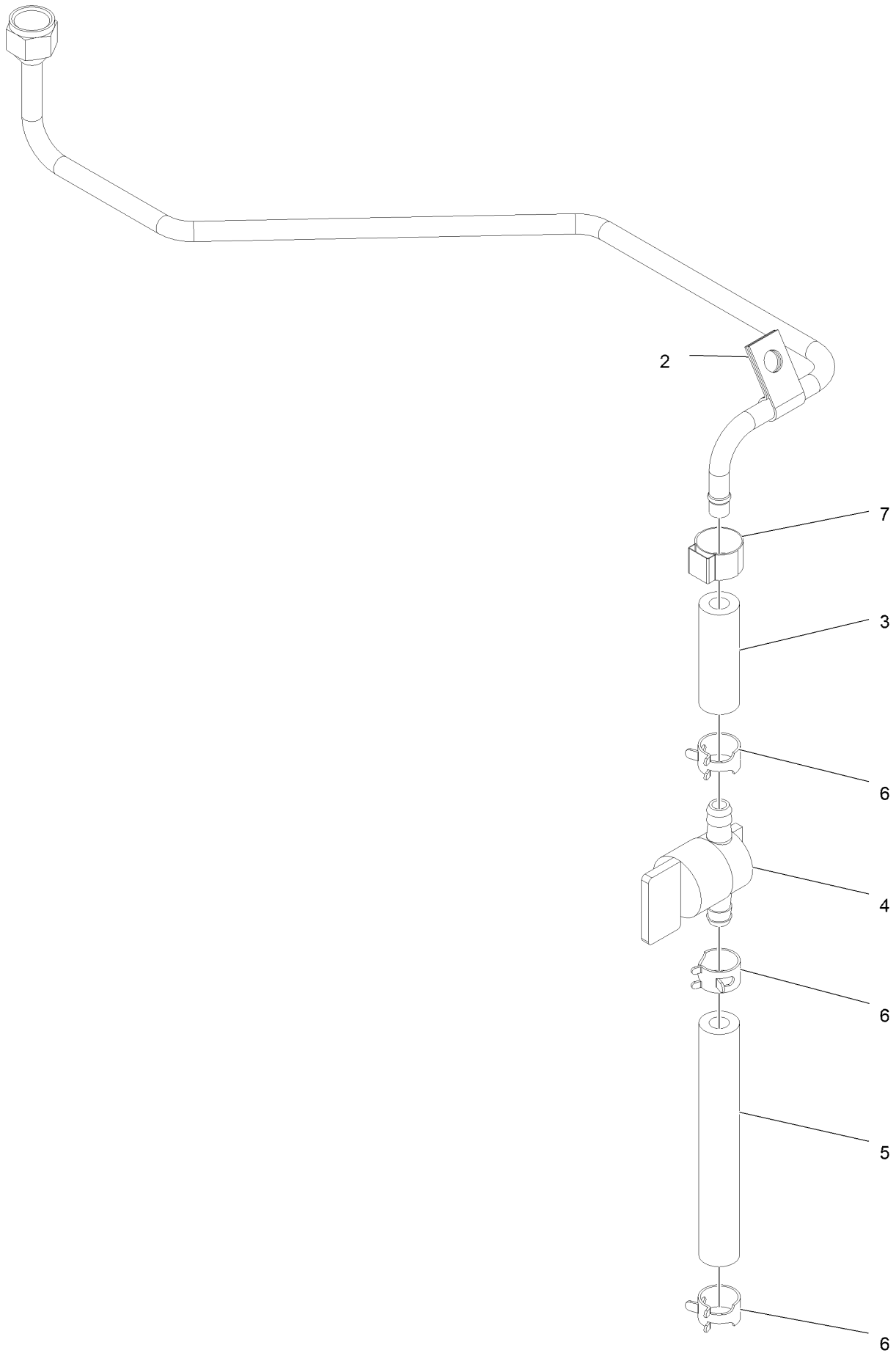
## Right Fuel Line Assembly (continued)

| <i>Ref.</i> | <i>Part Number</i> | <i>Qty.</i> | <i>Description</i> |
|-------------|--------------------|-------------|--------------------|
| 1           | 99-5000            | 1           | Valve-Check, Fuel  |
| 2           | 105-8342           | 1           | Hose-Fuel          |
| 3           |                    | 1           | Hose-Fuel ●        |

| <i>Ref.</i> | <i>Part Number</i> | <i>Qty.</i> | <i>Description</i>     |
|-------------|--------------------|-------------|------------------------|
| 5           | 2412-72            | 1           | Clip-Closed, Insulated |
| 6           | 2412-98            | 3           | Clamp-Hose             |
| 7           |                    | 1           | Clamp-Hose, Fuel ●     |

● Not serviced separately

# Fuel Line Assembly

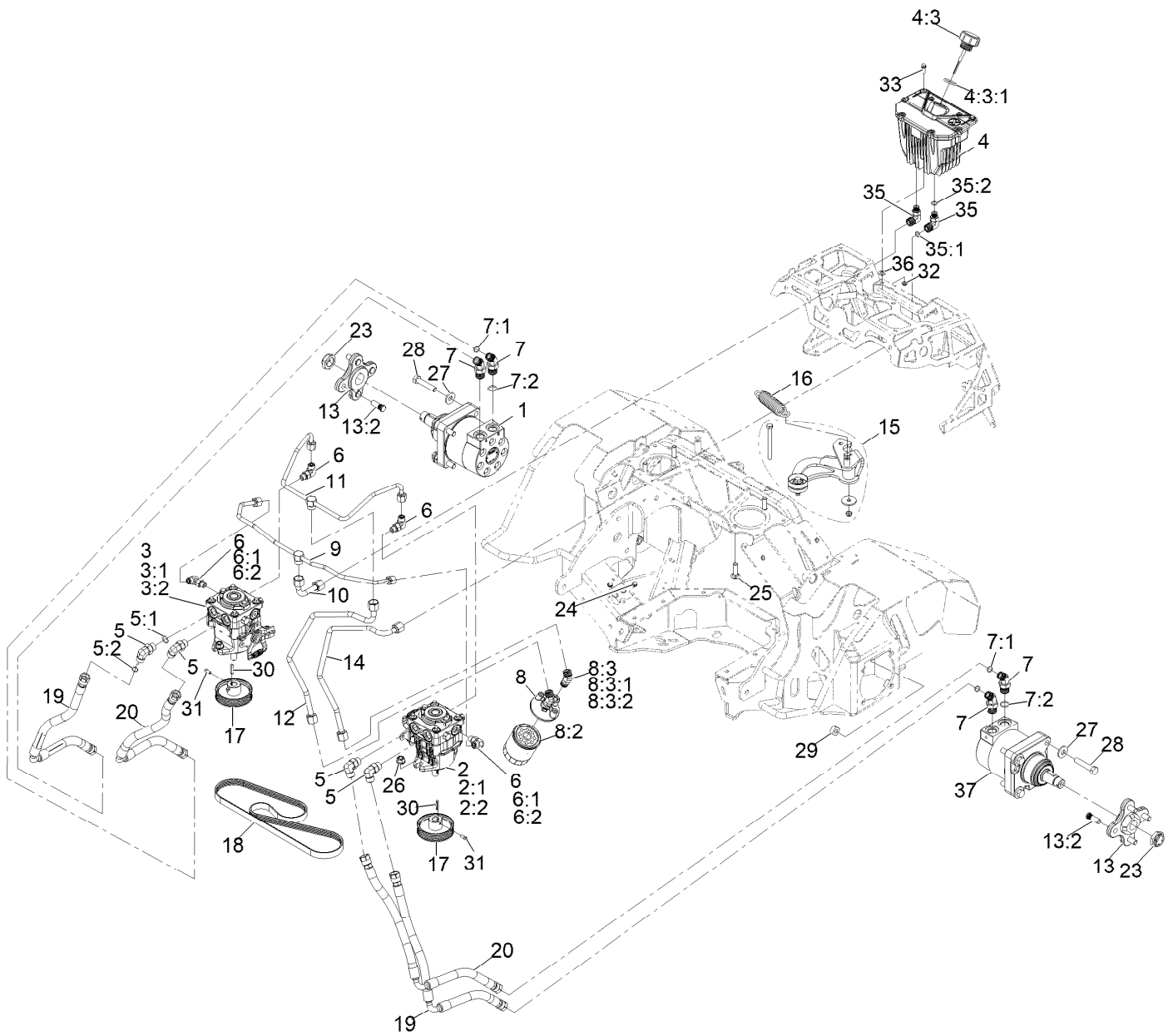


## Fuel Line Assembly (continued)

| <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> |
|-------------|--------------------|-------------|------------------------|-------------|--------------------|-------------|--------------------|
| 2           | 2412-72            | 1           | Clip-Closed, Insulated | 5           | 109-0660           | 1           | Hose-Fuel          |
| 3           |                    | 1           | Hose-Fuel ●            | 6           | 2412-98            | 3           | Clamp-Hose         |
| 4           | 1-603770           | 1           | Valve-Fuel             | 7           |                    | 1           | Clamp-Hose, Fuel ● |

● Not serviced separately

## Hydraulic Assembly



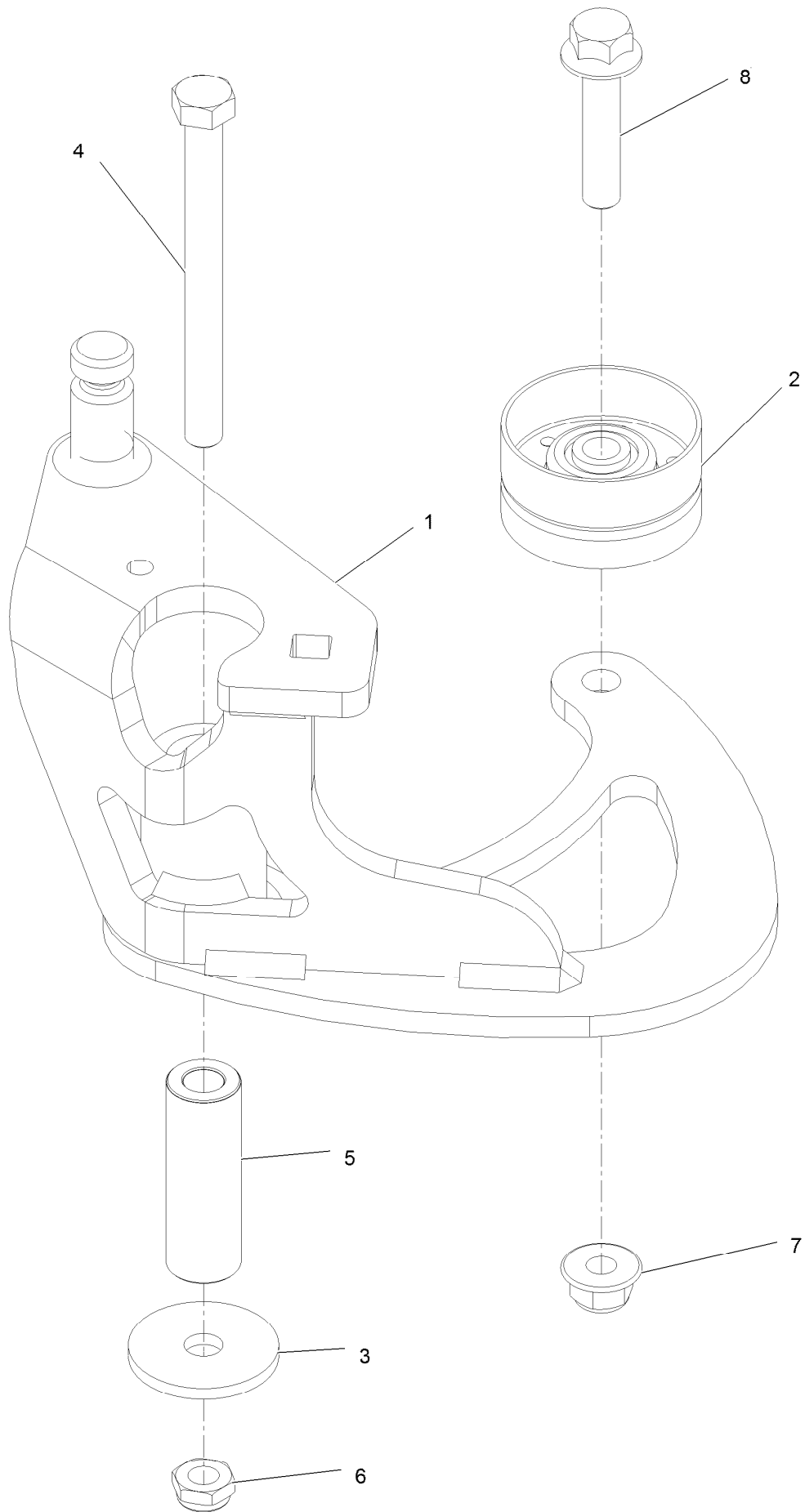
## Hydraulic Assembly (continued)

| <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           | 135-1162           | 1           | Motor, TI195                | 15          | 135-1270           | 1           | ASM, Idler Arm                |
| 2           | 142-2933           | 1           | Pump, 12Cc                  | 16          | 135-1272           | 1           | Spring, Extension             |
| 2:1         | 126-2479           | 1           | Kit, 10Cc/12Cc Pump Kit     | 17          | 142-2968           | 2           | Pulley, Pvk5                  |
| 2:2         | 105-6184           | 1           | Seal Overhaul Kit           | 18          | 135-1196           | 1           | Belt, Pvk5                    |
| 3           | 142-2934           | 1           | Pump, 12Cc                  | 19          | 142-6813           | 2           | Kit-Sts Hose- HYD             |
| 3:1         | 126-2479           | 1           | Kit, 10Cc/12Cc Pump Kit     | 20          | 142-6814           | 2           | Kit-Sts Hose- HYD             |
| 3:2         | 105-6184           | 1           | Seal Overhaul Kit           | 23          | 116-1399           | 2           | Locknut                       |
| 4           | 135-3305           | 1           | ASM, Hydraulic Reservoir    | 24          | 119-1065           | 2           | Screw-HWH                     |
| 4:3         | 142-2793           | 1           | Cap, Hydraulic              | 25          | 3232-3             | 4           | Bolt-Carriage 7/16-14 X 1 1/2 |
| 4:3:1       | 142-2792           | 1           | O-Ring                      | 26          | 114-8417           | 4           | Nut-HF, NI                    |
| 5           | 340-98             | 4           | Fitting-Elbow, 90 DEG       | 27          | 1-513435           | 8           | Washer-Spring Disc 1/2        |
| 5:1         | 237-79             | 1           | O-Ring                      | 28          | 325-10             | 8           | Screw-HH 1/2-13 X 2 1/2       |
| 5:2         | 237-30             | 1           | O-Ring                      | 29          | 3290-510           | 8           | Nut-Square                    |
| 6           | 340-77             | 4           | Fitting-Elbow, 90 DEG       | 30          | 135-7971           | 2           | Key, 5Mm X 5Mm X 29Mm         |
| 6:1         | 237-22             | 1           | O-Ring                      | 31          | 3241-7             | 4           | Screw-SQH 1/4-20 X 1/2        |
| 6:2         | 237-42             | 1           | O-Ring                      | 32          | 3296-56            | 2           | Nut-Nyloc 1/4-20 Thin         |
| 7           | 340-89             | 4           | Fitting-HYD, 45 DEG         | 33          | 32105-15           | 2           | Screw-Machine 1/4-20 X 3/4    |
| 7:1         | 237-30             | 1           | O-Ring                      | 35          | 340-99             | 2           | Fitting-HYD, 90 DEG           |
| 7:2         | 237-80             | 1           | O-Ring                      | 35:1        | 237-30             | 1           | O-Ring                        |
| 8           | 142-2951           | 1           | ASM, Filter Head            | 35:2        | 237-42             | 1           | O-Ring                        |
| 8:2         | 109-4180           | 1           | Element, Oil Filter         | 36          | 73-0041            | 2           | Washer-Thrust                 |
| 8:3         | 340-96             | 2           | Adapter                     | 37          | 142-2840           | 1           | Motor, TI195                  |
| 8:3:1       | 237-30             | 1           | O-Ring                      | 99          | 105-6184           | 1           | Seal Overhaul Kit ●           |
| 8:3:2       | 237-42             | 1           | O-Ring                      | 99          | 126-2479           | 1           | Kit, 10Cc/12Cc Pump Kit ●     |
| 9           | 135-7056           | 1           | Line, Hydraulic, Case Tee   | 99          | 130-1788           | 1           | Seal Kit ●                    |
| 10          | 135-7054           | 1           | Line, Hydraulic, Case       | 99:1        |                    | 5           | Seal-Ring, Viton ●■           |
| 11          | 135-7055           | 1           | Line, Hydraulic, Charge Tee | 99:2        |                    | 1           | Seal-Commutator ●■            |
| 12          | 135-7053           | 1           | Line, Hydraulic, Charge     | 99:3        |                    | 1           | Seal-Dirt/Water, Hi Temp ●■   |
| 13          | 135-2214           | 2           | ASM, Hub W/ Studs           | 99:4        |                    | 1           | Seal-Shaft ●■                 |
| 13:2        | 116-1696           | 4           | Stud-Wheel                  |             |                    |             |                               |
| 14          | 135-7052           | 1           | Line, Hydraulic, Supply     |             |                    |             |                               |

● Not illustrated

■ Not serviced separately

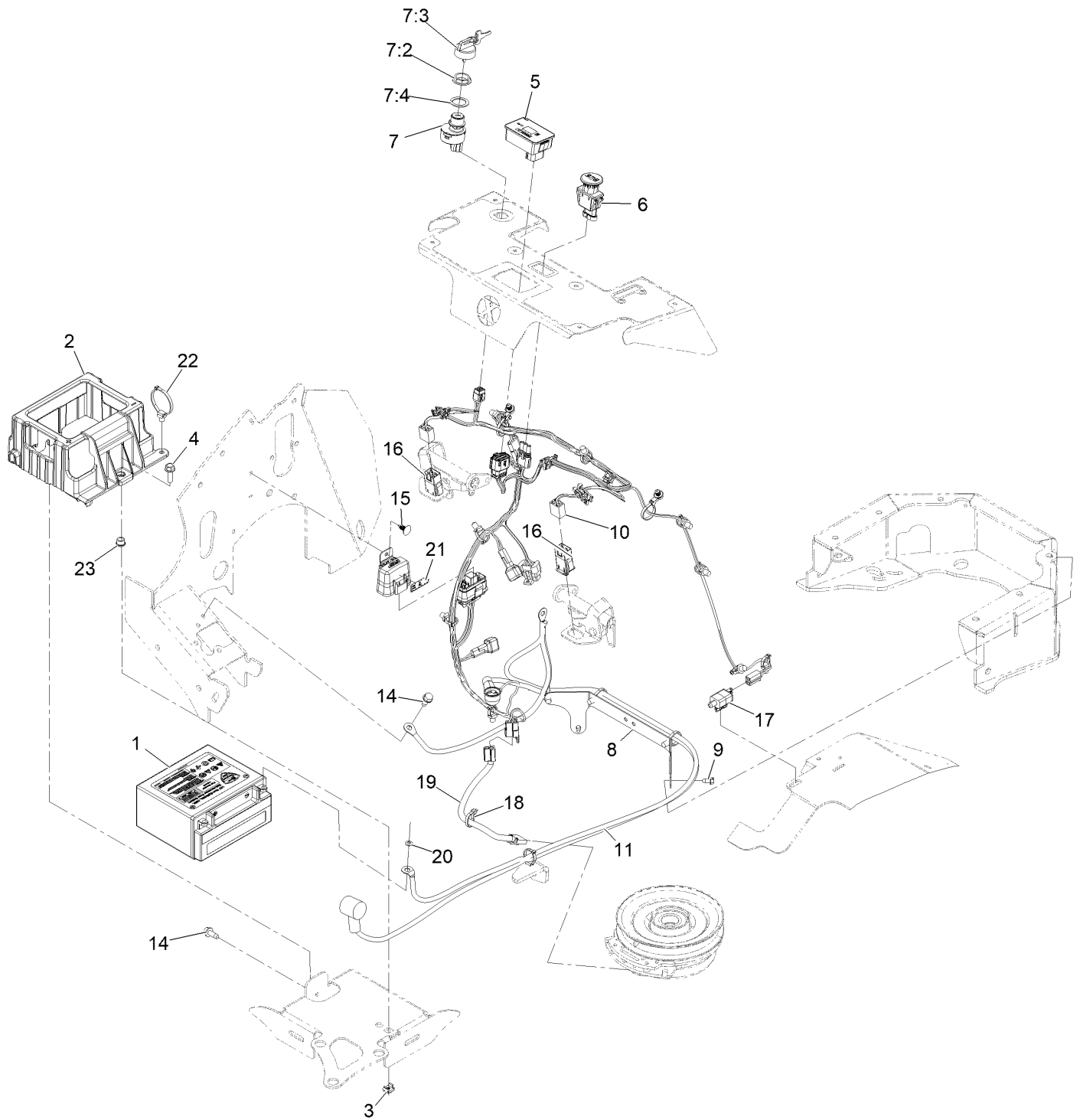
# Idler Arm Assembly



## Idler Arm 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           | 135-2238           | 1           | ASM, Idler Arm W/ Bushings | 5           | 135-1273           | 1           | Tube, Idler Pivot        |
| 2           | 135-1199           | 1           | Idler, Flat                | 6           | 3296-59            | 1           | Nut-Nyloc 3/8-16 Thin    |
| 3           | 1-213069           | 1           | Washer                     | 7           | 104-8301           | 2           | Nut-Nyloc 3/8-16 Flg     |
| 4           | 323-16             | 1           | Screw-HH 3/8-16 X 4        | 8           | 3234-19            | 1           | Screw-HHF 3/8-16 X 1 3/4 |

# Electrical Assembly



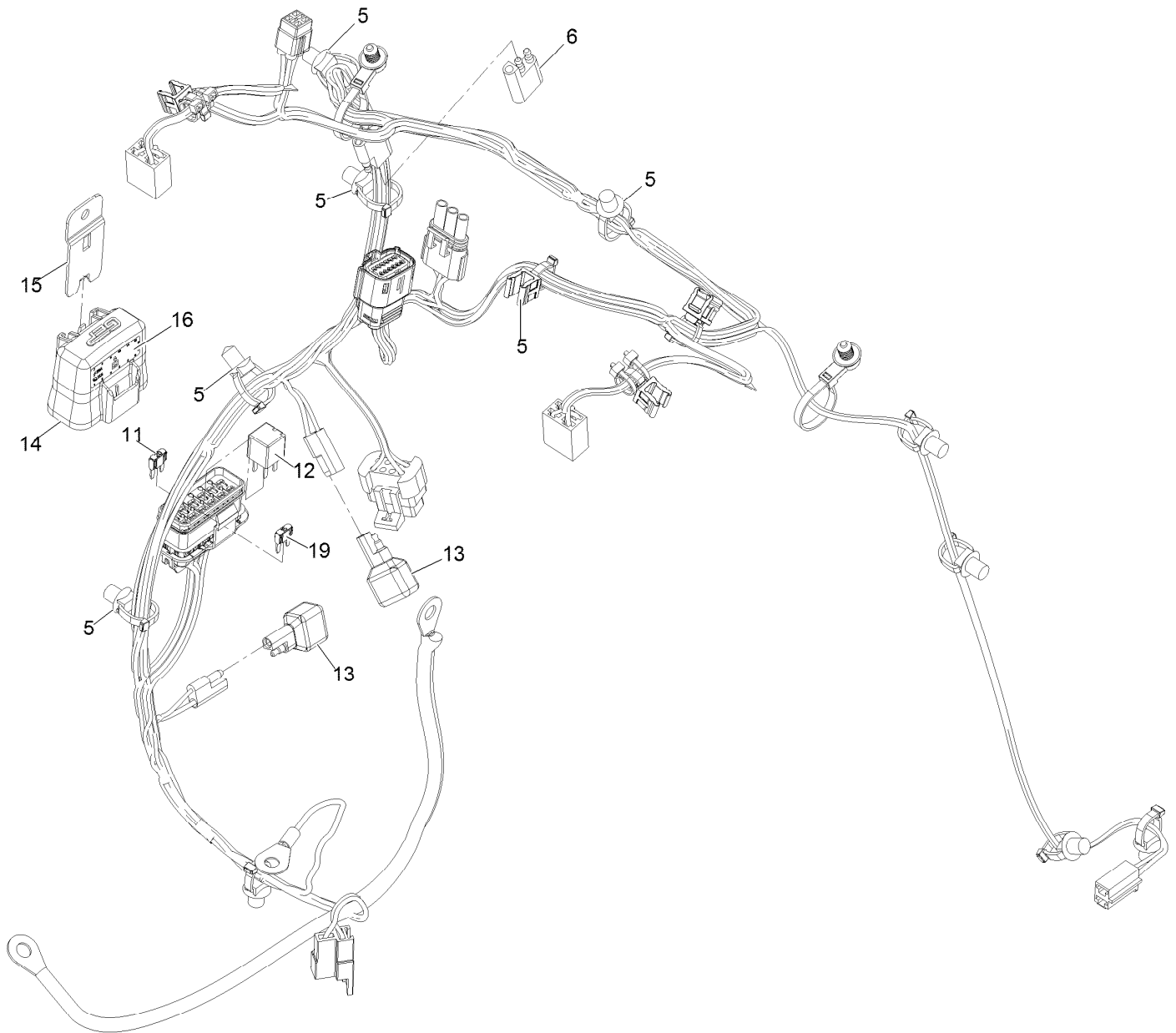
## Electrical Assembly (continued)

| <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           | 135-4421           | 1           | Battery, Agm, Non-Spillable   | 11          | 135-2126           | 1           | Harness-Battery               |
| 2           | 142-2450           | 1           | Box, Battery                  | 14          | 32144-11           | 2           | Screw-HWH 5/16-18 X 3/4<br>Tf |
| 3           | 135-4473           | 1           | Nut, Snap                     | 15          | 117-2382           | 1           | Plug-Plastic                  |
| 4           | 115-5142           | 1           | Screw-HHF                     | 16          | 104-3338           | 2           | Switch-Delta                  |
| 5           | 135-7189           | 1           | Module-Hour Meter             | 17          | 110-6765           | 1           | Switch                        |
| 6           | 126-6187           | 1           | Switch-PTO, Sealed            | 18          | 3290-378           | 1           | Tie-Cable                     |
| 7           | 126-6285           | 1           | Ignition Switch ASM           | 19          | 109-9274           | 1           | Harness-Clutch                |
| 7:2         | 108-8660           | 1           | Nut-Mounting                  | 20          | 1-303435           | 2           | Washer-Spring Disc 1/4        |
| 7:3         | 106-5270           | 1           | Ignition Key Set              | 21          | 126-7875           | 1           | Decal-Fuse                    |
| 7:4         | 108-8659           | 1           | Washer-Backup                 | 22          | 32180-030          | 1           | Clip-Tie                      |
| 8           | 135-1924-03        | 1           | Support, Battery Cable        | 23          | 256-116            | 1           | Bushing-Flange                |
| 9           | 32104-17           | 2           | Screw-HWH 1/4-20 X 1/2<br>Tap | 99          | 135-7732           | 1           | Hardware Kit, Battery ●       |
| 10          | 142-2406           | 1           | Harness-Wire ■                |             |                    |             |                               |

● Not illustrated

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

# Harness Assembly



## Harness 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>      |
|-------------|--------------------|-------------|-------------------------|-------------|--------------------|-------------|-------------------------|
| 5           | 32180-030          | 10          | Clip-Tie                | 14          | 32180-176          | 1           | Cover-Block, Fuse       |
| 6           | 32180-197          | 1           | Cap-Plug                | 15          | 32180-177          | 1           | Clip-Mounting           |
| 11          | 121-8868           | 1           | Fuse-Mini Blade, 20 Amp | 16          | 126-7875           | 1           | Decal-Fuse              |
| 12          | 126-3991           | 1           | Relay-Micro             | 19          | 121-8867           | 1           | Fuse-Mini Blade, 15 Amp |
| 13          | 100-4918           | 2           | Diode                   |             |                    |             |                         |

**Notes:**

**Notes:**

**Notes:**



# MAXIMIZE THE PERFORMANCE OF YOUR EXMARK MACHINE.



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## EXMARK ACCESSORIES AND OPTIONS\*

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|------------------------------------|---------------------------------|
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| 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.

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