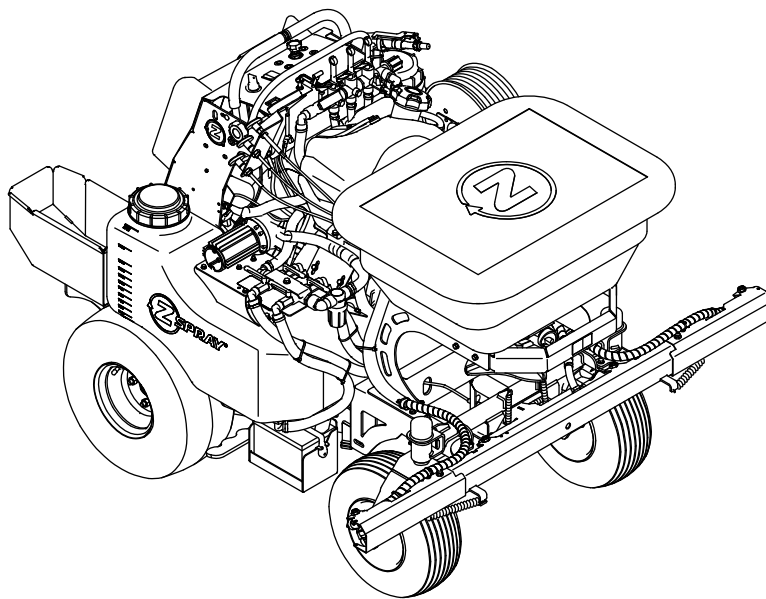




## **Z-SPRAY®**

**Model No. ZS4230—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

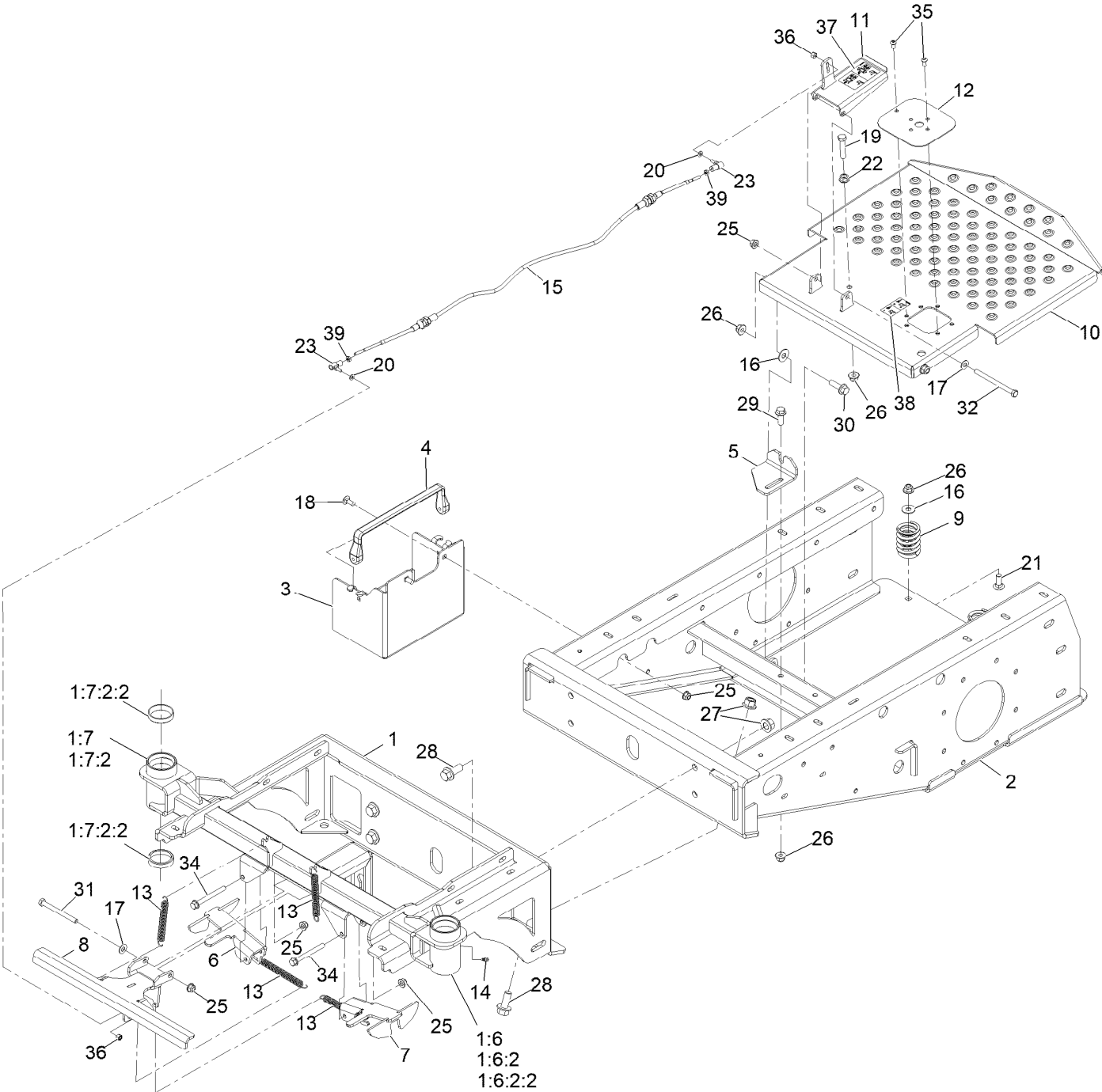
In an illustration, if a reference number indicates more than one part, the reference number has the form nX y. The n represents the quantity of the part, the X is the multiplication symbol, and the y represents the reference number.

For example, in an illustration, the reference number 2X 37 means that two of the parts identified by reference number 37 are indicated.

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# Main Frame Assembly

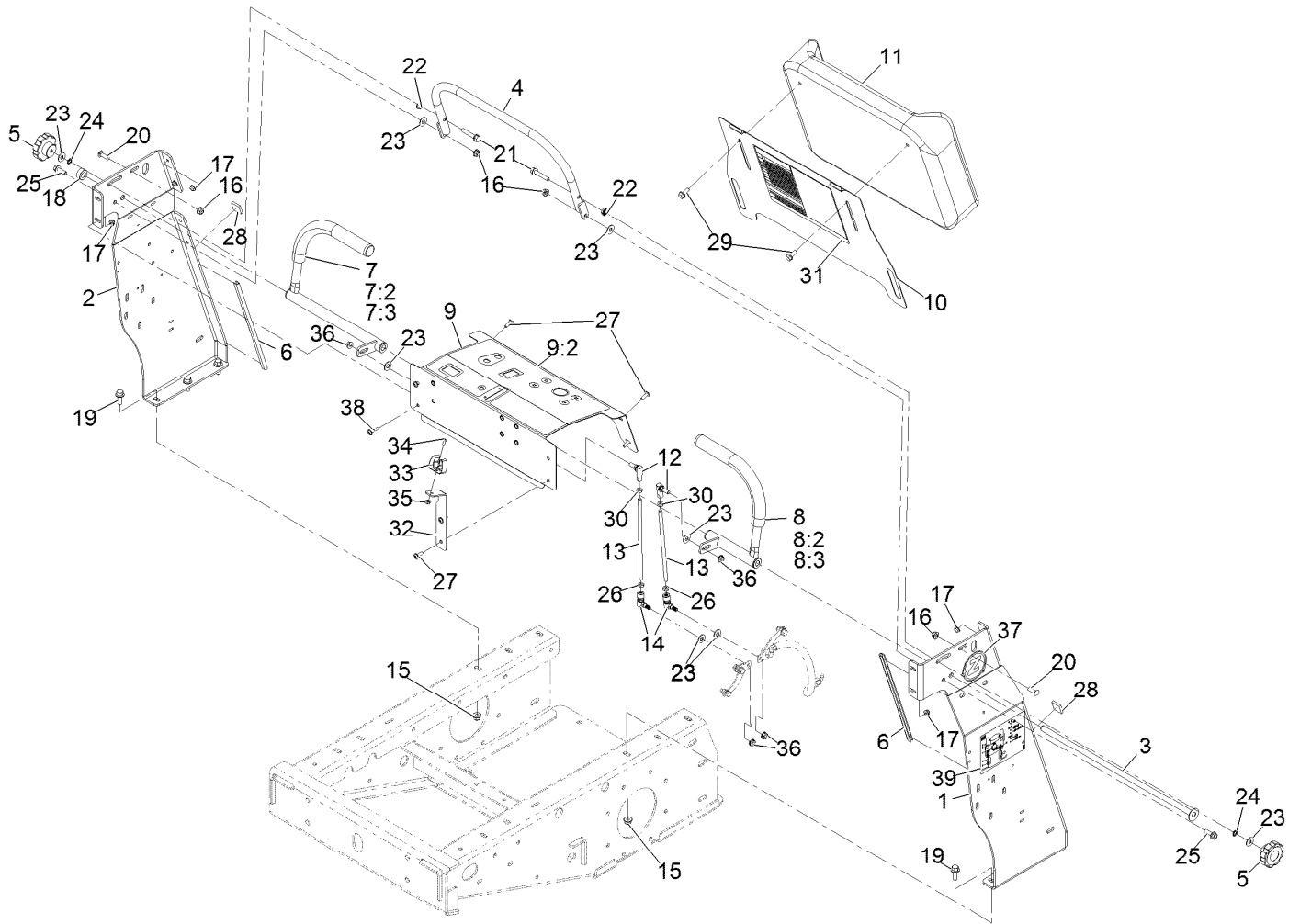


## Main Frame Assembly (continued)

| <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           | 135-5179           | 1           | Frame-Front              | 21          | 126-0980           | 3           | Bolt-Carriage 3/8-16 X 1 SS |
| 1:6         |                    | 1           | Tube-Caster, Lt ●        | 22          | 135-6806           | 1           | Nut-Hex Flange 3/8-16       |
| 1:6:2       |                    | 1           | Tube-Caster, W/Cup ●     |             |                    |             | Serrated SS                 |
| 1:6:2:2     | 254-72             | 2           | Bearing-Cup, Tapered     | 23          | 135-5682           | 2           | Ball Joint-SS               |
| 1:7         |                    | 1           | Tube-Caster, Rt ●        | 25          | 135-6109           | 6           | Nut-Hex Flg 5/16-18 Nyloc   |
| 1:7:2       |                    | 1           | Tube-Caster, W/Cup ●     |             |                    |             | SS                          |
| 1:7:2:2     | 254-72             | 2           | Bearing-Cup, Tapered     | 26          | 135-6110           | 7           | Nut-Hex Flg 3/8-16 SS       |
| 2           | 135-5171           | 1           | Frame-Rear               |             |                    |             | W/Patch SS                  |
| 3           | 142-3038           | 1           | Box-Battery              | 27          | 135-6111           | 6           | Nut-Hex Flg 3/8-16 SS       |
| 4           | 142-1748           | 1           | Strap, Tarp              |             |                    |             | W/Patch SS                  |
| 5           | 135-5494           | 1           | Bracket-Cable, Lower     | 28          | 135-6207           | 6           | Screw-HHF 5/16-18 X 1 1/4   |
| 6           | 135-5195           | 1           | Wing-Capture, Rt         |             |                    |             | SS                          |
| 7           | 135-5194           | 1           | Wing-Capture, Lt         | 29          | 135-6208           | 1           | Screw-HHF 3/8-16 X 1        |
| 8           | 135-5369           | 1           | Capture-Lcs              |             |                    |             | Serrated SS                 |
| 9           | 135-5654           | 3           | Spring-Compression       | 30          | 135-6211           | 2           | Screw-HHF 3/8-16 X 1 1/4    |
| 10          | 135-7502           | 1           | Plate-Foot               |             |                    |             | Serrated SS                 |
| 11          | 135-5191           | 1           | Pedal-Foot               | 31          | 135-6217           | 1           | Screw-HH 5/16-18 X 3 1/2    |
| 12          | 135-5561           | 1           | Panel-Switch, Foot       |             |                    |             | SS                          |
| 13          | 135-5652           | 4           | Spring-Extension         | 32          | 135-6218           | 1           | Screw-HH 5/16-18 X 4 SS     |
| 14          | 302-63             | 2           | Zerk                     | 34          | 135-6222           | 2           | Screw-HHF 5/16-18 X 3       |
| 15          | 135-5644           | 1           | Cable-Caster, Locking    |             |                    |             | Serrated SS                 |
| 16          | 1126               | 5           | Washer-Flat              | 35          | 135-6367           | 2           | Screw-Button Head 1/4-20    |
| 17          | 107-0279           | 2           | Washer                   |             |                    |             | X 1/2 SS                    |
| 18          | 126-0695           | 2           | Screw-Carriage 5/16-18 X | 36          | HDW05856           | 2           | Nut-Hex Nyl Ins #10-32 Unf  |
|             |                    |             | 3/4 SS                   | 37          | 135-6430           | 1           | Decal-Lock, Caster          |
| 19          | 126-0710           | 1           | Screw-HHF 3/8-16 X 1.75  | 38          | 135-6728           | 1           | Decal-Button, Foot (Spray)  |
|             |                    |             | SS                       | 39          | 520-0019           | 2           | Nut-Hex Jam #10-32 Unf      |
| 20          | 126-0759           | 2           | Washer-Flat              |             |                    |             |                             |

● Not serviced separately

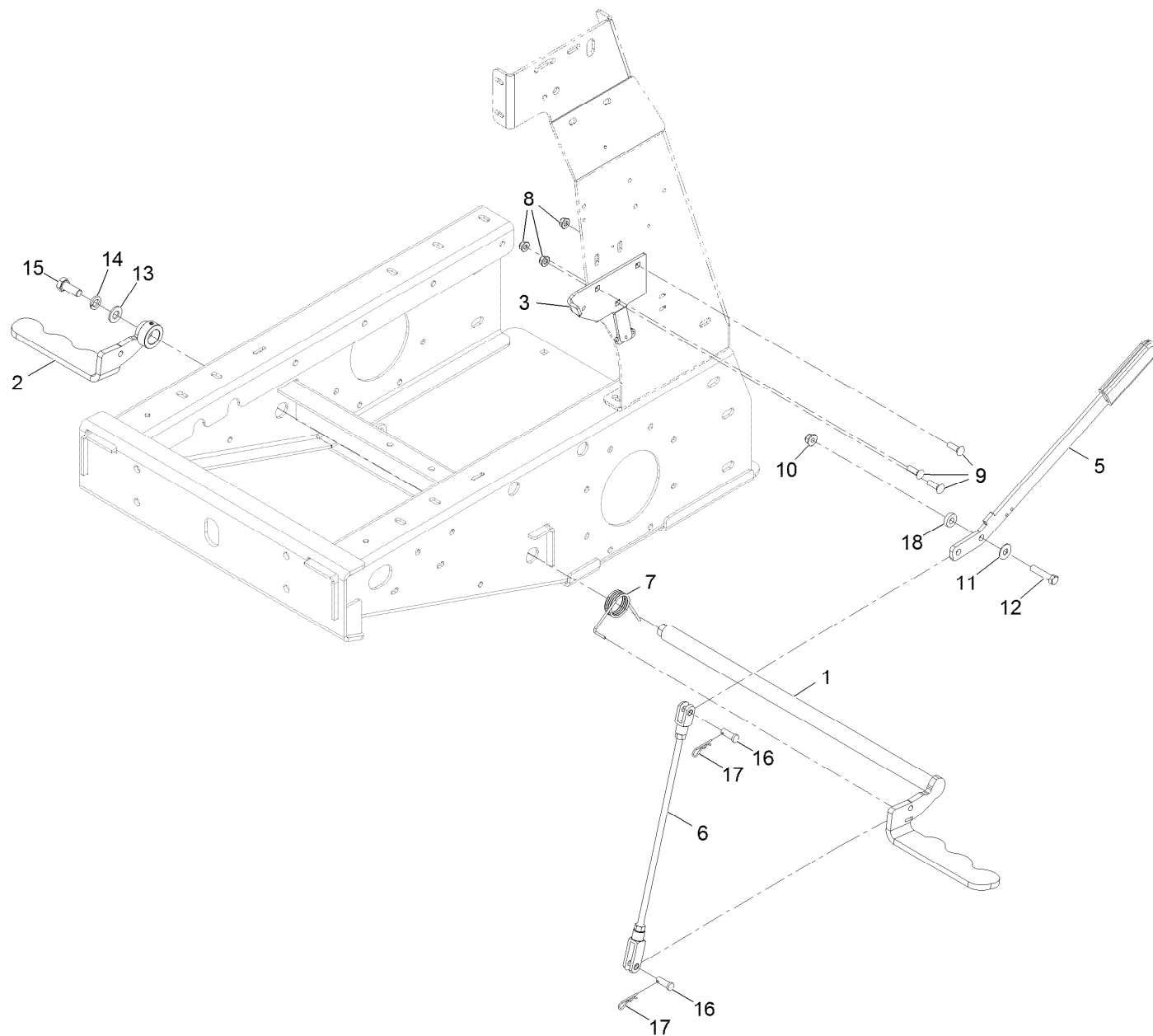
# Motion Control Assembly



## Motion Control 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           | 135-5423-05        | 1           | Upright-Tower, Lt [blk-Txt]  | 21          | 135-5779           | 2           | Screw-HHF 5/16-18 X 1 3/4 |
| 2           | 135-5425-05        | 1           | Upright-Tower, Rt [blk-Txt]  |             |                    |             | Serrated SS               |
| 3           | 135-5430           | 1           | Rod-Pivot, Joy Stick         | 22          | 118-1722           | 2           | Nut-Hex Flange 5/16-18    |
| 4           | 135-5427-05        | 1           | Bar-Speed [blk-Txt]          |             |                    |             | Serrated SS               |
| 5           | 135-5689           | 2           | Knob-Fluted                  | 23          | HDW14535           | 8           | Washer-Flat 5/16 SS       |
| 6           | 135-5336           | 2           | Strip-Trim, 12.0 Inch        | 24          | 135-6286           | 2           | Washer-Lock               |
| 7           | 135-5738           | 1           | Stick-Joy, Rt                | 25          | 135-6272           | 2           | Screw-HHF 5/16-18 X 1     |
| 7:2         | 1-633257           | 1           | Grip-Control, Motion         |             |                    |             | Serrated SS               |
| 7:3         | 135-5694           | 2           | Bushing-Flange               | 26          | 107-0282           | 2           | Nut-Hex 5/16-24 Jam SS    |
| 8           | 135-5739           | 1           | Stick-Joy, Lt                | 27          | 135-7080           | 6           | Screw-Button Head Flange  |
| 8:2         | 1-633257           | 1           | Grip-Control, Motion         |             |                    |             | 1/4-20 X 3/4 SS           |
| 8:3         | 135-5694           | 2           | Bushing-Flange               | 28          | 93-9155            | 2           | Velcro                    |
| 9           | 142-3142           | 1           | ASM-Panel, Control           | 29          | 126-2712           | 2           | Screw-HHF 5/16-18 X 3/4   |
| 9:2         | 142-4183           | 1           | Decal-Control Panel          |             |                    |             | Serrated SS               |
| 10          | 135-5498-05        | 1           | Plate-Pad, Knee              | 30          | 135-6512           | 2           | Nut-Hex 5/16-24 Jam SS LH |
| 11          | 142-3165           | 1           | Pad-Knee, Z-Logo             | 31          | 142-4373           | 1           | Decal-Spray Chart         |
| 12          | 135-5257           | 2           | Balljoint-SS                 | 32          | 135-5506-05        | 1           | Mount-Gun                 |
| 13          | 135-5681           | 2           | Rod-Control, Motion          | 33          | 135-5661           | 1           | Holder-Tool, Clip         |
| 14          | 135-5718           | 2           | Ball Joint-Quick Disconnect, | 34          | 135-6374           | 1           | Screw-Button Head #10-24  |
|             |                    |             | SS                           |             |                    |             | X 1/2 SS                  |
| 15          | 135-6110           | 6           | Nut-Hex Flg 3/8-16 SS        | 35          | 135-6342           | 1           | Nut-Hex Flg #10-24 Nyloc  |
|             |                    |             | W/Patch SS                   |             |                    |             | SS                        |
| 16          | 135-6109           | 4           | Nut-Hex Flg 5/16-18 Nyloc    | 36          | 107-0380           | 4           | Nut-Hex Flg 5/16-24 Unf   |
|             |                    |             | SS                           |             |                    |             | W/Patch                   |
| 17          | 135-6108           | 8           | Nut-Hex Flg 1/4-20 Nyloc     | 37          | 142-3051           | 2           | Decal-Z-Logo              |
|             |                    |             | SS                           | 38          | 135-7081           | 2           | Screw-Button Head Flange  |
| 18          | 135-6192           | 1           | Collar                       |             |                    |             | 1/4-20 X 1 SS             |
| 19          | 135-6208           | 6           | Screw-HHF 3/8-16 X 1         | 39          | 142-3911           | 1           | Decal-Service Aid         |
|             |                    |             | Serrated SS                  |             |                    |             |                           |
| 20          | HDW17294           | 2           | Bolt-Carriage 5/16-18 X 1    |             |                    |             |                           |
|             |                    |             | SS                           |             |                    |             |                           |

# Park Brake Assembly

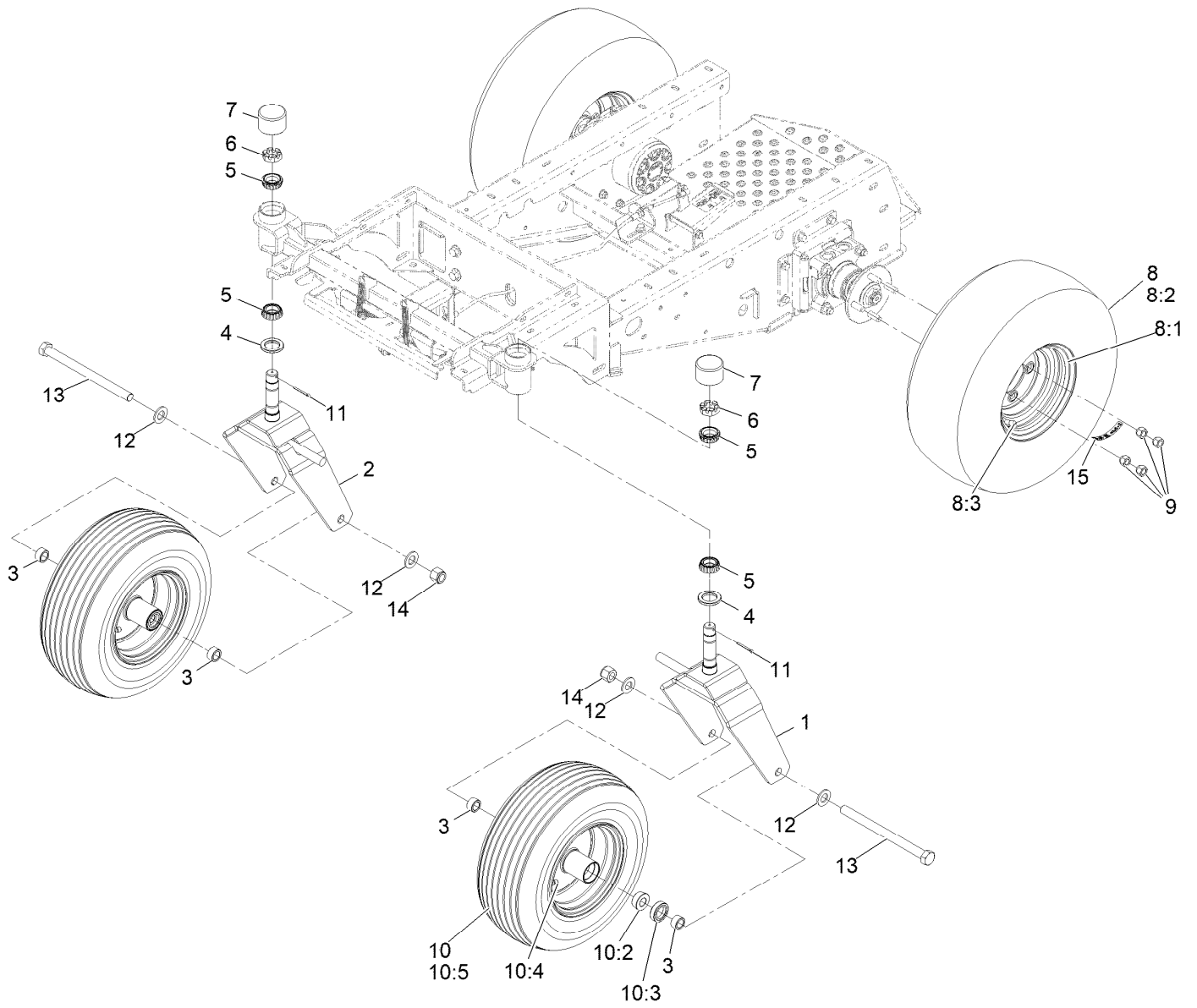




## Park Brake Assembly (continued)

| <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           | 135-5526-03        | 1           | Arm-Brake, Lt [black]                    | 10          | 104-8301           | 1           | Nut-HF, NI         |
| 2           | 135-5529-03        | 1           | Arm-Brake, Rt [black]                    | 11          | 1126               | 1           | Washer-Flat        |
| 3           | 135-7225           | 1           | Bracket-Handle, Brake                    | 12          | 323-52             | 1           | Screw-HH           |
| 5           | 135-6058           | 1           | Handle-Brake                             | 13          | 3256-26            | 1           | Washer-Flat        |
| 6           | 135-6066           | 1           | Brake Rod ASM                            | 14          | 3253-7             | 1           | Washer-Lock        |
| 7           | 135-6106           | 1           | Spring-Torsion                           | 15          | 106-0378           | 1           | Screw              |
| 8           | 135-6109           | 3           | Nut-Hex Flange                           | 16          | 1-808284           | 2           | Pin-Clevis         |
| 9           | HDW17294           | 3           | Bolt, Carriage, 5/16-18X1, ST/ST<br>18-8 | 17          | 135-6284           | 2           | Pin-Hair           |
|             |                    |             |                                          | 18          | 5-0652             | 1           | Spacer             |

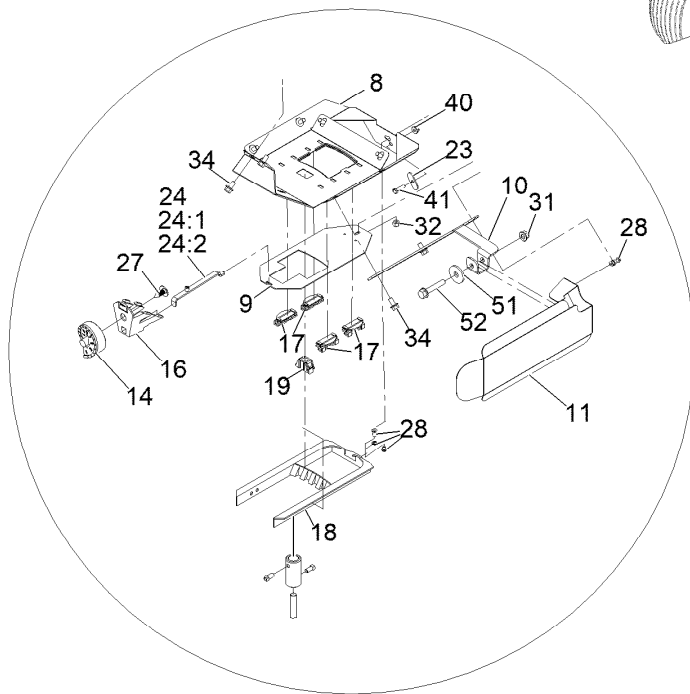
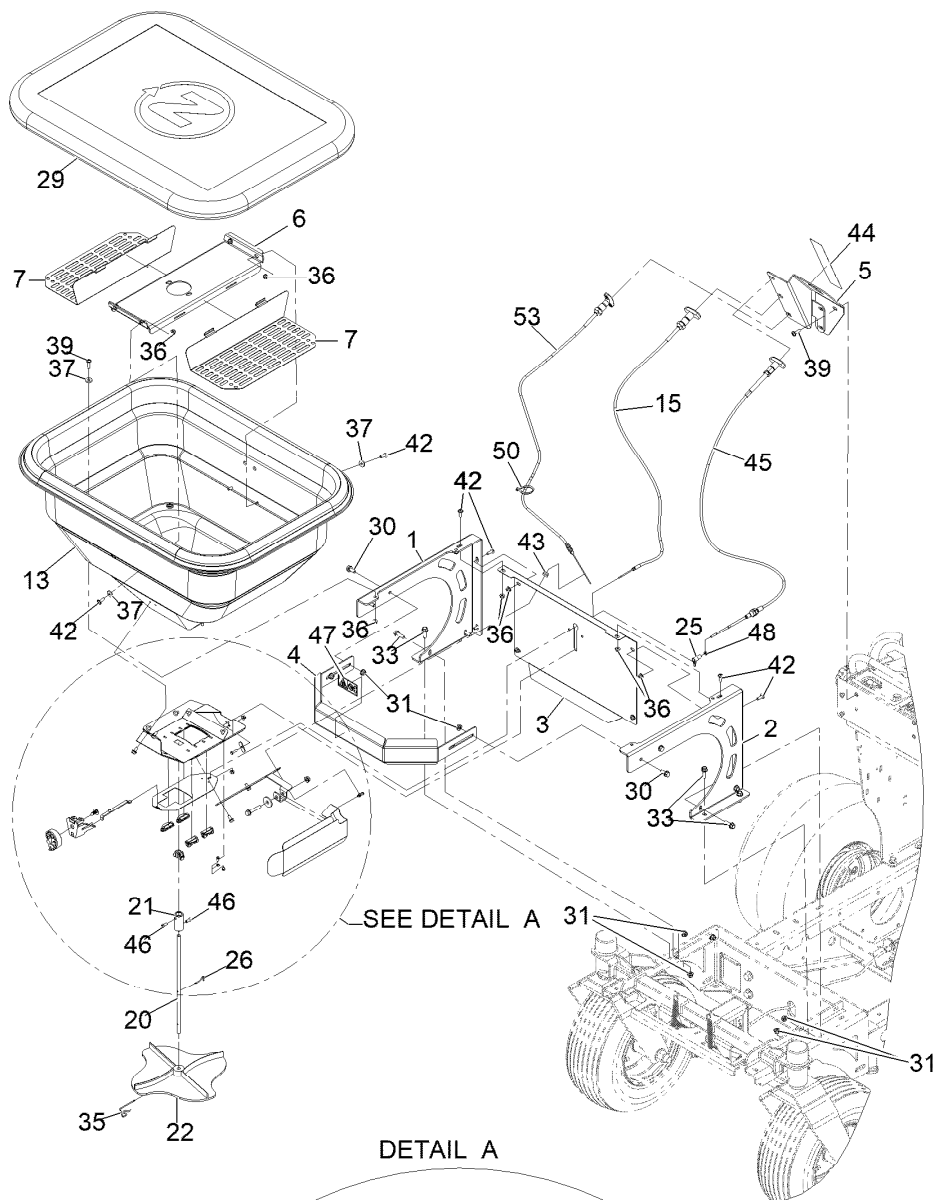
# Tire and Wheel Assembly



## Tire and 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           | 135-5441-01        | 1           | Caster-Lt [red]       | 10          | 142-5509           | 2           | Wheel And Tire ASM          |
| 2           | 135-5446-01        | 1           | Caster-Rt [red]       | 10:2        | 142-6219           | 1           | Tire-Rib                    |
| 3           | 135-5683           | 4           | Spacer-Axle           | 10:3        | 1-633585           | 2           | Bearing-Cone Tapered Roller |
| 4           | 1-543511           | 2           | Seal-Grease           | 10:4        | 5108               | 1           | Valve                       |
| 5           | 254-92             | 4           | Cone-Bearing, Outer   | 10:5        | 103-0063           | 2           | Seal-Double Lip             |
| 6           | 1-809082           | 2           | Nut-Slotted 1-14 Unf  | 11          | 135-6292           | 2           | Pin-Cotter                  |
| 7           | 135-5756           | 2           | Cap-Dust, Rubber      | 12          | 3256-28            | 4           | Washer-3/4 SAE              |
| 8           | 142-5508           | 2           | Wheel And Tire ASM    | 13          | 135-6300           | 2           | Screw-HH 3/4-10 X 10        |
| 8:1         | 142-6216           | 1           | Tire- 20 X 8 4 Ply    | 14          | 3296-51            | 2           | Nut-Nyloc 3/4-10            |
| 8:2         | 142-6217           | 1           | Rim-8X5.375, Centered | 15          | 126-2055           | 2           | Decal-Torque, Wheel Hub     |
| 8:3         | 232-27             | 1           | Stem-Valve            |             |                    |             | Lug                         |
| 9           | 242-50             | 8           | Nut-Lug 1/2-20        |             |                    |             |                             |

## Hopper Assembly

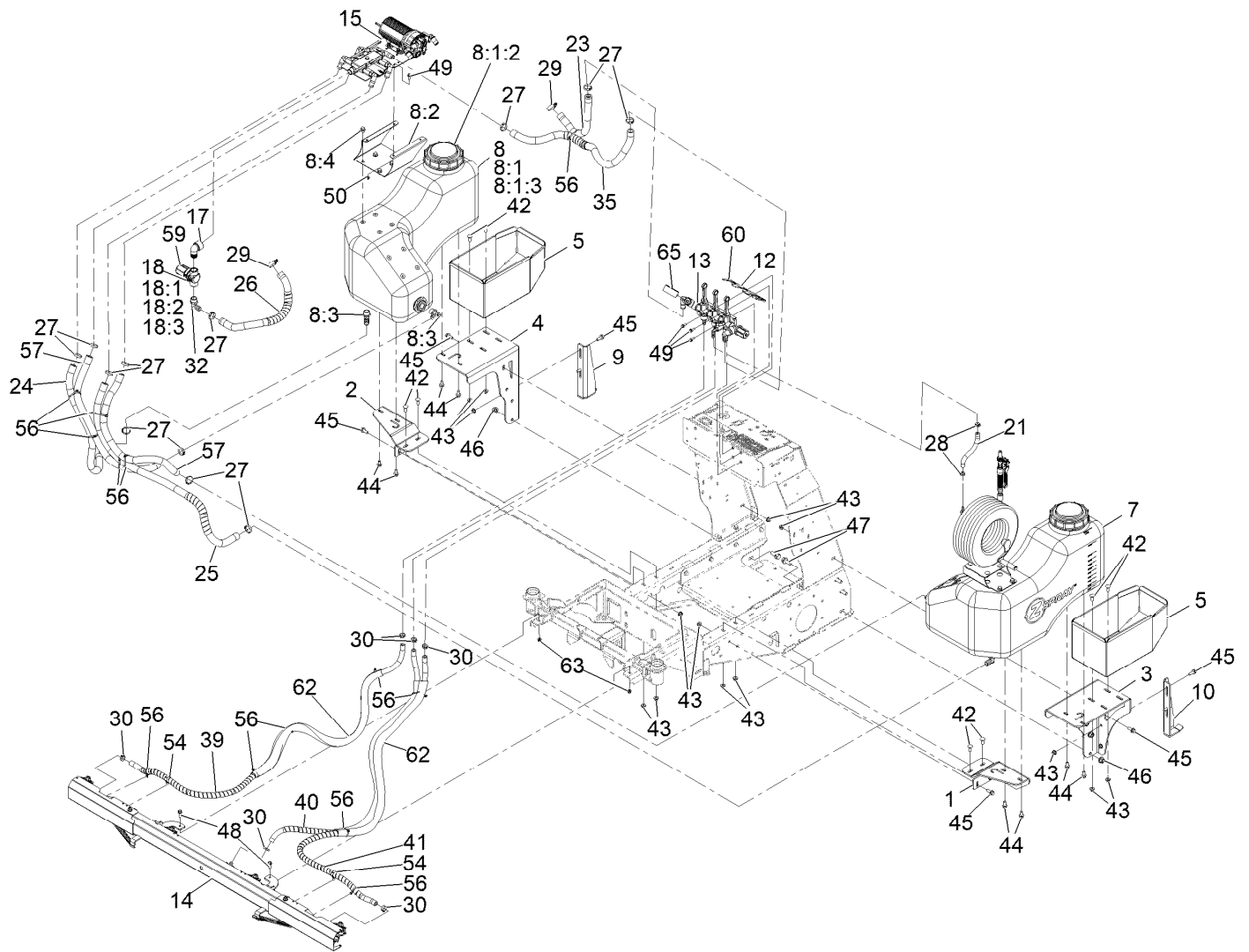


## Hopper Assembly (continued)

| <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           | 135-5391           | 1           | Side-Hopper, Rt          | 28          | 142-3886           | 2           | Wire-Stop                |
| 2           | 135-5393           | 1           | Side-Hopper, Lt          | 29          | 142-6119           | 1           | Cover-Hopper, Large      |
| 3           | 135-5571           | 1           | Backshield-Hopper        | 30          | 126-2712           | 4           | Screw-HHF                |
| 4           | 135-5567           | 1           | Bumper-Front, Hopper     | 31          | 135-6109           | 14          | Nut-Hex Flange           |
| 5           | 142-3957-05        | 1           | Mount-Speedometer        | 32          | HDW05856           | 1           | Nut-NYL                  |
| 6           | 135-5542           | 1           | Pan-Hopper, 220          |             |                    |             | Lock,#10-32,ST/ST 18-8   |
| 7           | 135-5544           | 2           | Screen-Hopper, 220       | 33          | 135-6272           | 8           | Screw-HHF                |
| 8           | 142-5110           | 1           | Base Plate, Hopper, 220  | 34          | 135-6280           | 8           | Screw-HHF, 1/4-20 X 1/2, |
| 9           | 142-3792           | 1           | Slide-Door, Hopper       |             |                    |             | Ser Flg, SS              |
| 10          | 142-5102           | 1           | Mount-Deflector, Side    | 35          | 142-3541           | 1           | Clip-Spinner             |
| 11          | 142-5103           | 1           | Deflector-Side, Spreader | 36          | 135-6108           | 14          | Nut-Hex Flange           |
| 13          | 142-5406           | 1           | Asy-Hopper 220 Lb        | 37          | 135-6341           | 8           | Washer                   |
| 14          | 142-3359           | 1           | Dial                     | 39          | 135-7081           | 5           | Screw-HSBH Flg           |
| 15          | 135-5931           | 1           | Cable-Push/Pull          | 40          | 135-6342           | 2           | Nut-Hex Flange           |
| 16          | 142-3319           | 1           | Mount-Dial               | 41          | 135-6356           | 2           | Screw-HH                 |
| 17          | 142-3316           | 4           | Guide-Rate, Gate         | 42          | 135-7080           | 10          | Screw-HSBH Flg           |
| 18          | 142-3406           | 1           | Diffuser                 | 43          | 135-5988           | 1           | Grommet-Rubber           |
| 19          | 142-4042           | 1           | Hopper Bottom Bearing    | 44          | 142-3958           | 1           | Decal-Hopper Control     |
| 20          | 142-5956           | 1           | Shaft-Hopper, 220        | 45          | 135-5935           | 1           | Cable-Push/Pull          |
| 21          | 135-5937           | 1           | Coupler-SS               | 46          | 3241-7             | 2           | Screw-SQH                |
| 22          | 142-3506           | 1           | Spinner-Spreader         | 47          | 135-6725           | 1           | Decal-Dismemberment      |
| 23          | 135-5569           | 1           | Retainer, Cable          |             |                    |             | Hazard                   |
| 24          | 126-2659           | 1           | Rate Gate Link ASM       | 48          | 520-0019           | 1           | Nut-Hex, Jam             |
| 24:1        | 126-0987           | 1           | Link-Gate, Rate          | 50          | 3290-378           | 1           | Tie-Cable ●              |
| 24:2        | 126-4196           | 1           | Screw-Shoulder, Slotted  | 51          | 107675             | 1           | Washer                   |
| 25          | 135-5682           | 1           | Ball Joint-SS            | 52          | 135-5779           | 1           | Screw-HHF                |
| 26          | 142-3666           | 1           | Wire-Agitator            | 53          | 142-3925           | 1           | Cable-Control, Turn Lock |
| 27          | 88-1080            | 1           | Footpad Fastener         |             |                    |             | 2.00 Trvl                |

● Not illustrated

# Spray Assembly



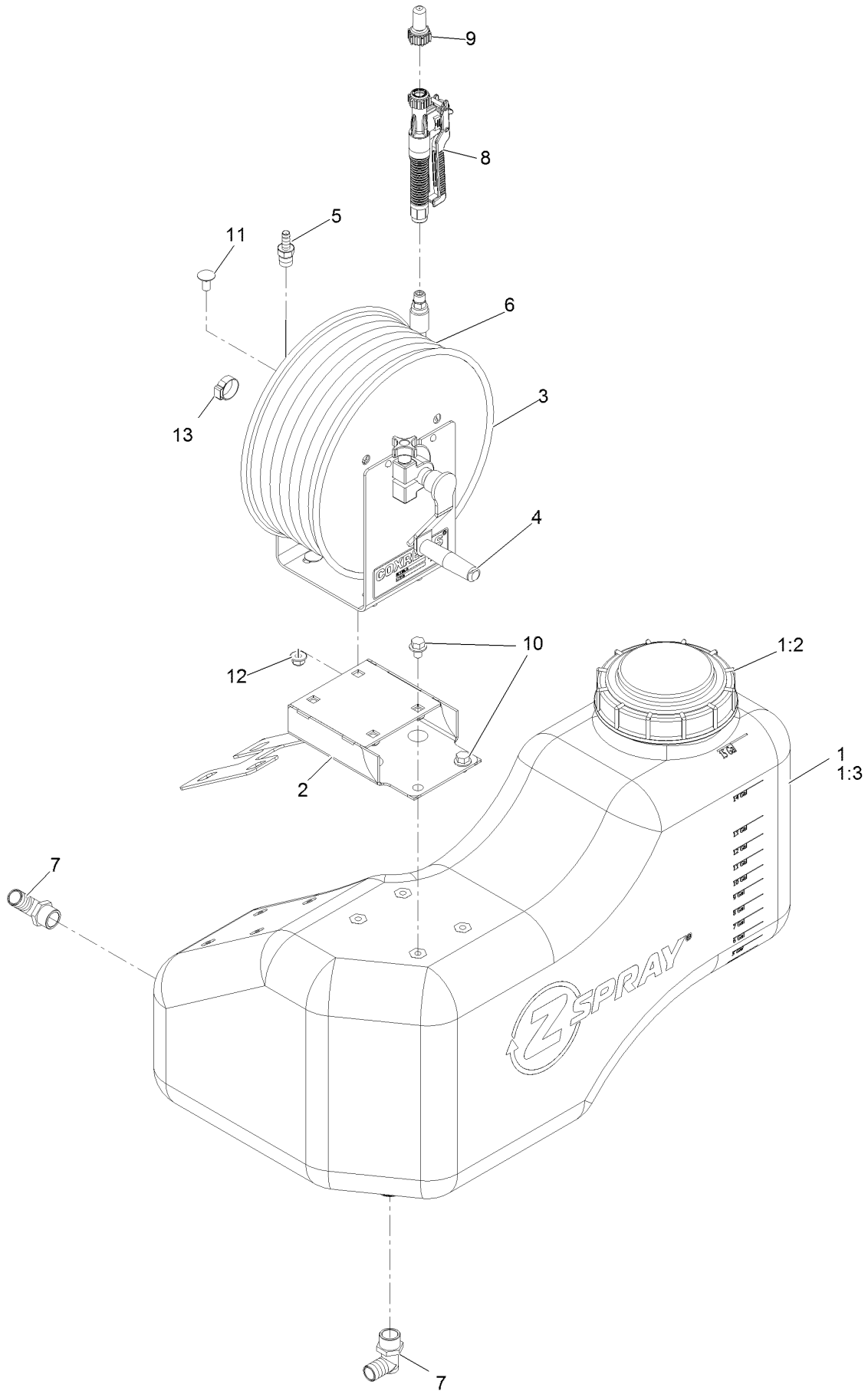
## Spray Assembly (continued)

| <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           | 135-5514           | 1           | Mount-Tank, LH Wing          | 30          | 135-5692           | 6           | Clamp-Oetiker, 167                    |
| 2           | 135-5515           | 1           | Mount-Tank, RH Wing          | 32          | 135-5772           | 1           | Fitting-Elbow, 90                     |
| 3           | 135-5537           | 1           | Mount-Box, Lt Fert           | 35          | 135-6480           | 1           | Hose-Spray, Wrapped                   |
| 4           | 135-5539           | 1           | Mount-Box, Rt Fert           | 39          | 135-5270           | 1           | Hose-Spray, Wrapped                   |
| 5           | 142-2446           | 2           | Box-Fert                     | 40          | 135-5268           | 1           | Hose-Spray, Wrapped                   |
| 7           |                    | 1           | ASM-Tank, Hose Reel ■        | 41          | 135-5269           | 1           | Hose-Spray, Wrapped                   |
| 8           |                    | 1           | ASM-Tank, Rt ■               | 42          | 126-0980           | 12          | Bolt-Carriage 3/8-16 X 1 SS           |
| 8:1         | 142-3061           | 1           | ASM-Tank, Rt                 | 43          | 135-6110           | 22          | Nut-Hex Flg 3/8-16 SS<br>W/Patch SS   |
| 8:1:2       | 135-5916           | 1           | Cap-Tank, Spray              | 44          | 135-6274           | 8           | Screw-HHF 3/8-16 X 3/4 SS             |
| 8:1:3       | 135-5921           | 2           | Fitting-Bulkhead             | 45          | 135-6208           | 10          | Screw-HHF 3/8-16 X 1<br>Serrated SS   |
| 8:2         | 135-5772           | 2           | Fitting-Elbow, 90            | 46          | 135-6111           | 6           | Nut-Hex Flg 3/8-16 SS<br>W/Patch SS   |
| 8:3         | 135-5545           | 1           | Platform, Liquid Valve Mount | 47          | 135-6207           | 6           | Screw-HHF 5/16-18 X 1 1/4<br>SS       |
| 8:4         | 135-7096           | 4           | Screw-HHF 3/8-16 X 1/2 SS    | 48          | 135-6272           | 2           | Screw-HHF 5/16-18 X 1<br>Serrated SS  |
| 9           | 135-5479           | 1           | Bracket-Anti-Tip, Rt         | 49          | 135-6221           | 7           | Screw-HHF 1/4-20 X 3/4<br>Serrated SS |
| 10          | 135-5477           | 1           | Bracket-Anti-Tip, Lt         | 50          | 135-6108           | 4           | Nut-Hex Flg 1/4-20 Nyloc<br>SS        |
| 12          | 135-5570-05        | 1           | Bracket-Manifold             | 54          | 32180-030          | 2           | Clip-Tie                              |
| 13          |                    | 1           | ASM-Manifold ■               | 56          | 3290-378           | 13          | Tie-Cable                             |
| 14          |                    | 1           | ASM-Boom, Spray ■            | 57          | 135-6441           | 2           | Hose-Spray                            |
| 15          |                    | 1           | ASM, Liquid Valve ■          | 59          | 135-6424           | 1           | Decal-Cap, Strainer                   |
| 17          | 132-7706           | 1           | Elbow-90 DEG                 | 60          | 142-4366           | 1           | Decal-Valve, Boom                     |
| 18          | 135-5765           | 1           | Strainer-Inline              | 62          | 135-6484           | 2           | Guard-Mesh                            |
| 18:1        | 126-7195           | 1           | Bowl-Strainer                | 63          | 135-6109           | 2           | Nut-Hex Flg 5/16-18 Nyloc<br>SS       |
| 18:2        | 126-2272           | 1           | Gasket-Head, Line Strainer   | 65          | 135-5740           | 1           | Gauge                                 |
| 18:3        | 135-5766           | 1           | Screen-Strainer, 50 Mesh     | 99          | 3290-379           | 3           | Tie-Cable ●                           |
| 21          | 135-6162           | 1           | Hose-Spray                   |             |                    |             |                                       |
| 23          | 135-6164           | 1           | Hose-Spray                   |             |                    |             |                                       |
| 24          | 135-5326           | 1           | Hose-Spray                   |             |                    |             |                                       |
| 25          | 135-5327           | 1           | Hose-Spray, Wrapped          |             |                    |             |                                       |
| 26          | 135-5325           | 1           | Hose-Spray, Wrapped          |             |                    |             |                                       |
| 27          | 135-5890           | 12          | Clamp-Oetiker, 167           |             |                    |             |                                       |
| 28          | 135-5757           | 2           | Clamp-Oetiker, 167           |             |                    |             |                                       |
| 29          | 2412-129           | 2           | Clamp-Hose                   |             |                    |             |                                       |

● Not illustrated

■ Not serviced separately

# Left Tank Assembly

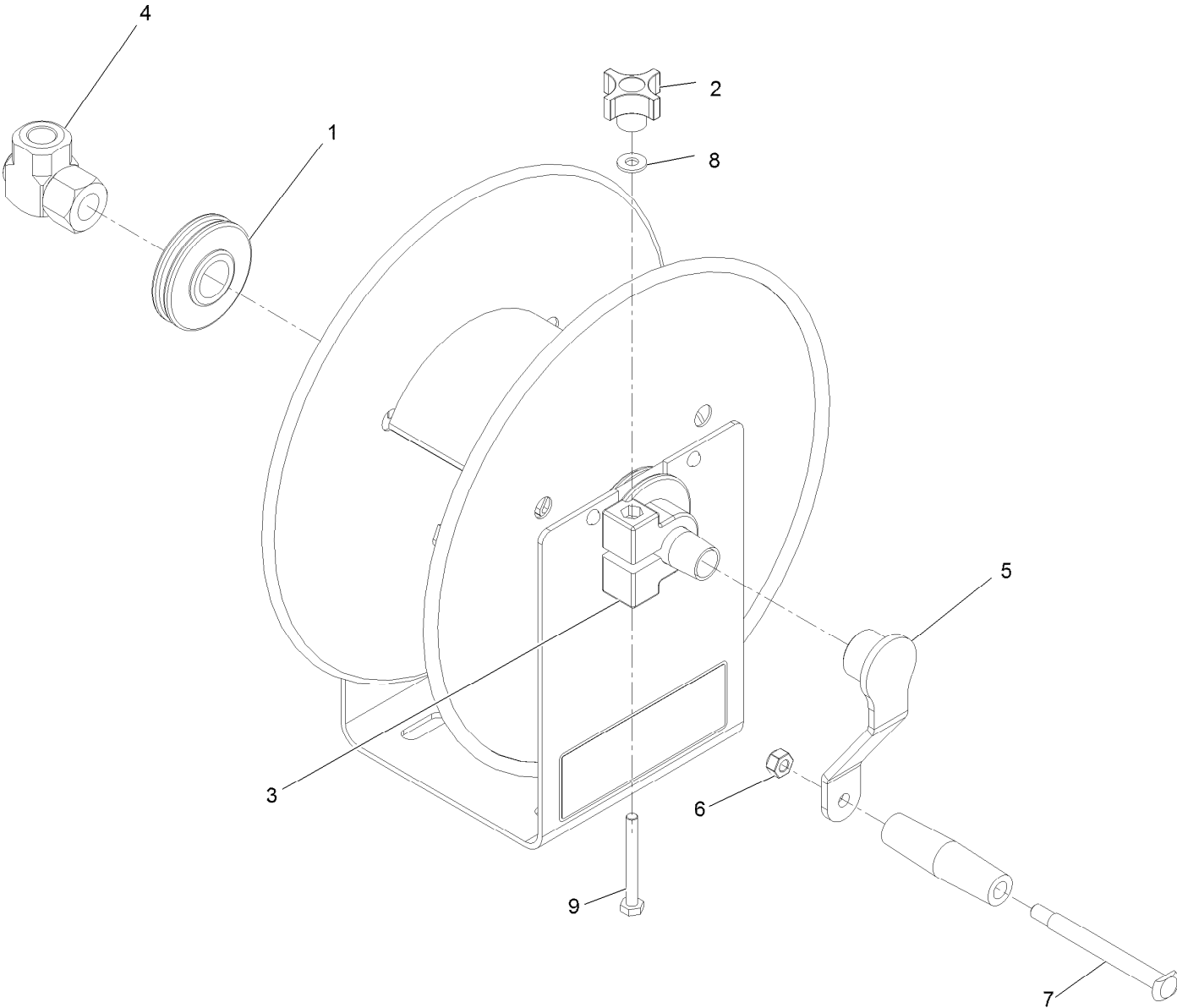




## Left Tank Assembly (continued)

| <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           | 142-3063           | 1           | ASM-Tank, Lt       | 8           | 135-5773           | 1           | Gun-Spray, Spot                  |
| 1:2         | 135-5916           | 1           | Cap-Tank, Spray    | 9           | 135-5778           | 1           | Tip-Spray, #12 Spot              |
| 1:3         | 135-5921           | 2           | Fitting-Bulkhead   | 10          | 135-7096           | 2           | Screw-HHF 3/8-16 X 1/2 SS        |
| 2           | 135-5521           | 1           | Mount-Reel, Hose   | 11          | 135-6271           | 4           | Bolt-Carriage 3/8-16 X 3/4 SS    |
| 3           | 135-5787           | 1           | Reel-Hose          | 12          | 135-6110           | 4           | Nut-Hex Flg 3/8-16 SS W/Patch SS |
| 4           | 135-6011           | 1           | Crank-Reel         | 13          | 135-5757           | 1           | Clamp-Oetiker, 167               |
| 5           | 1-513200           | 2           | Fitting,Male       |             |                    |             |                                  |
| 6           | 135-5794           | 1           | Hose-Spray, 75'    |             |                    |             |                                  |
| 7           | 135-5772           | 2           | Fitting-Elbow, 90  |             |                    |             |                                  |

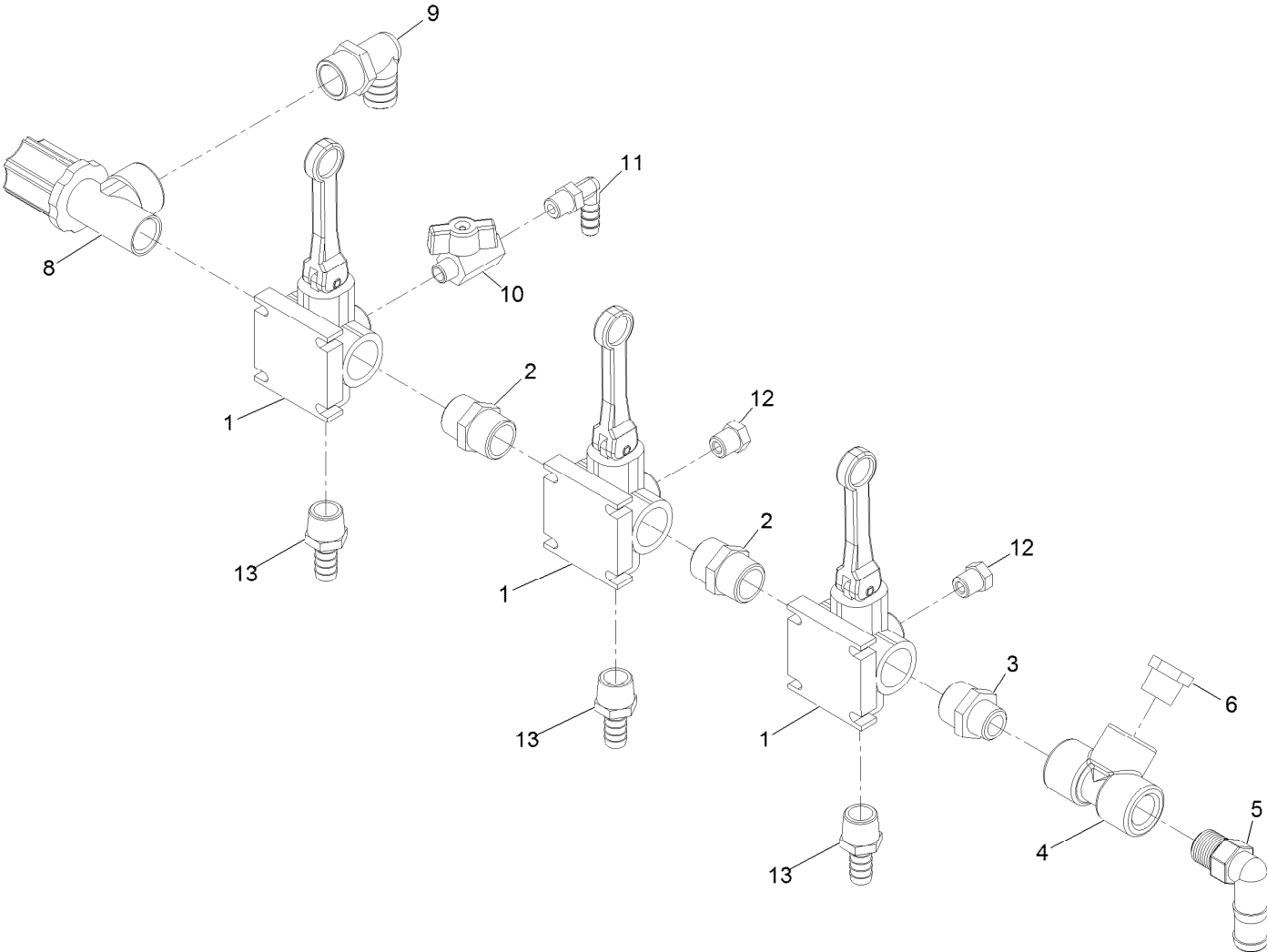
# Reel Hose Assembly



## Reel Hose 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           | 135-8439           | 1           | Plastic Bearing        | 6           | 119-4038           | 1           | Nut-Hex Nyloc 5/16-18   |
| 2           | 135-8437           | 1           | Hose Reel Brake Knob   | 7           | 135-8436           | 1           | Bolt, Hose Reel Handle  |
| 3           | 135-8438           | 1           | Brake/Bearing 6329-1-1 | 8           | 120-9679           | 1           | Washer-Flat             |
| 4           | 135-8421           | 1           | Swivel 3/8" Npt        | 9           | 321-18             | 1           | Screw-HH 1/4-20 X 2 1/4 |
| 5           | 135-6011           | 1           | Crank-Reel             |             |                    |             |                         |

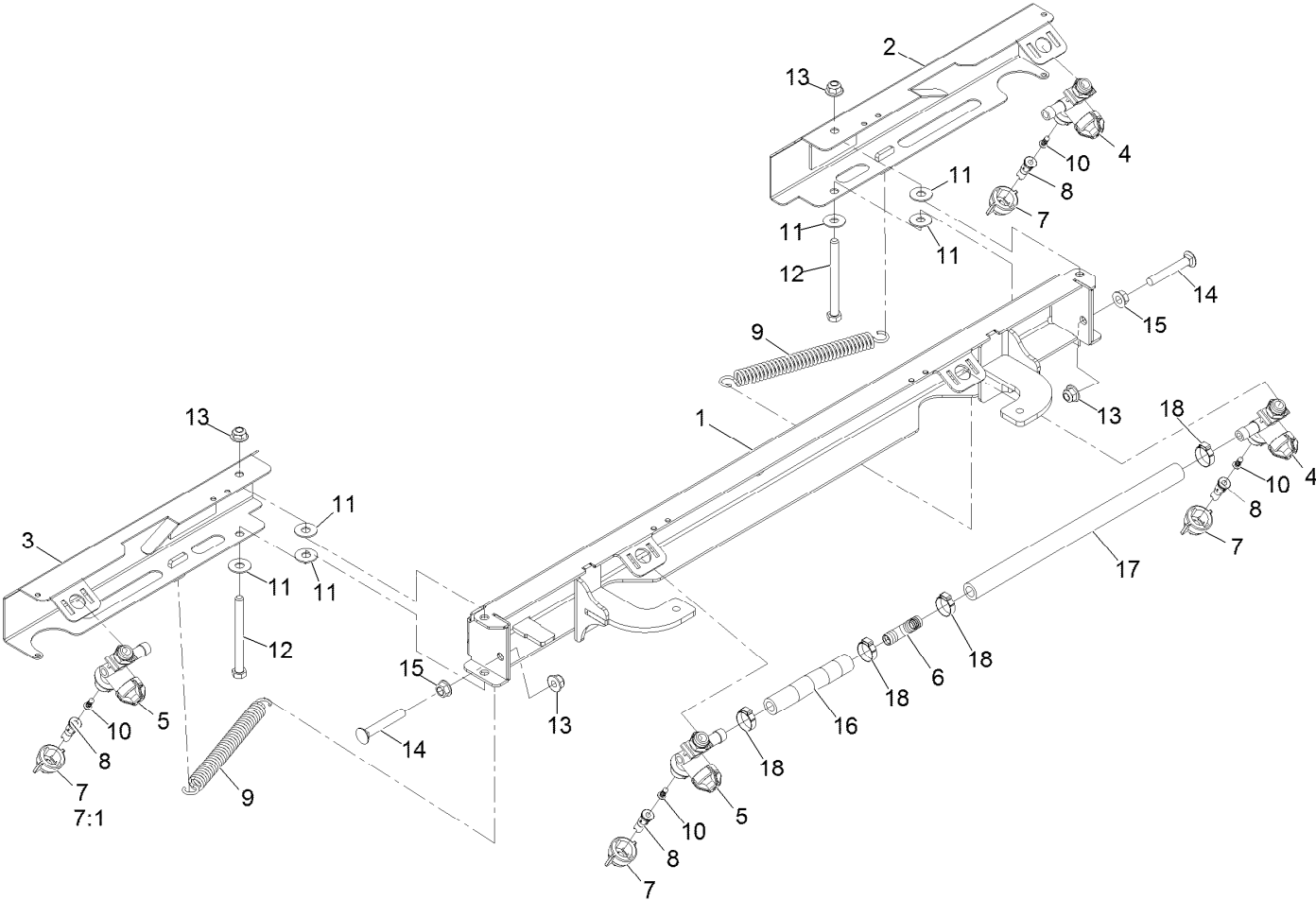
# Manifold Assembly



## Manifold 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           | 135-5721           | 3           | Valve-Directo      | 8           | 135-5736           | 1           | Valve-Throttle     |
| 2           | 135-5741           | 2           | Fitting-Nipple     | 9           | 135-5772           | 1           | Fitting-Elbow, 90  |
| 3           | 135-5742           | 1           | Fitting-Nipple     | 10          | 135-5737           | 1           | Valve-Chrome, 1/4  |
| 4           | 94-7100            | 1           | Tee                | 11          | 135-5745           | 1           | Fitting-Elbow, 90  |
| 5           | 92-8557            | 1           | Elbow-90           | 12          | 135-5735           | 2           | Plug-Valve         |
| 6           | 135-5743           | 1           | Fitting-Reducer    | 13          | 120-8671           | 3           | Fitting-Hosebarb   |

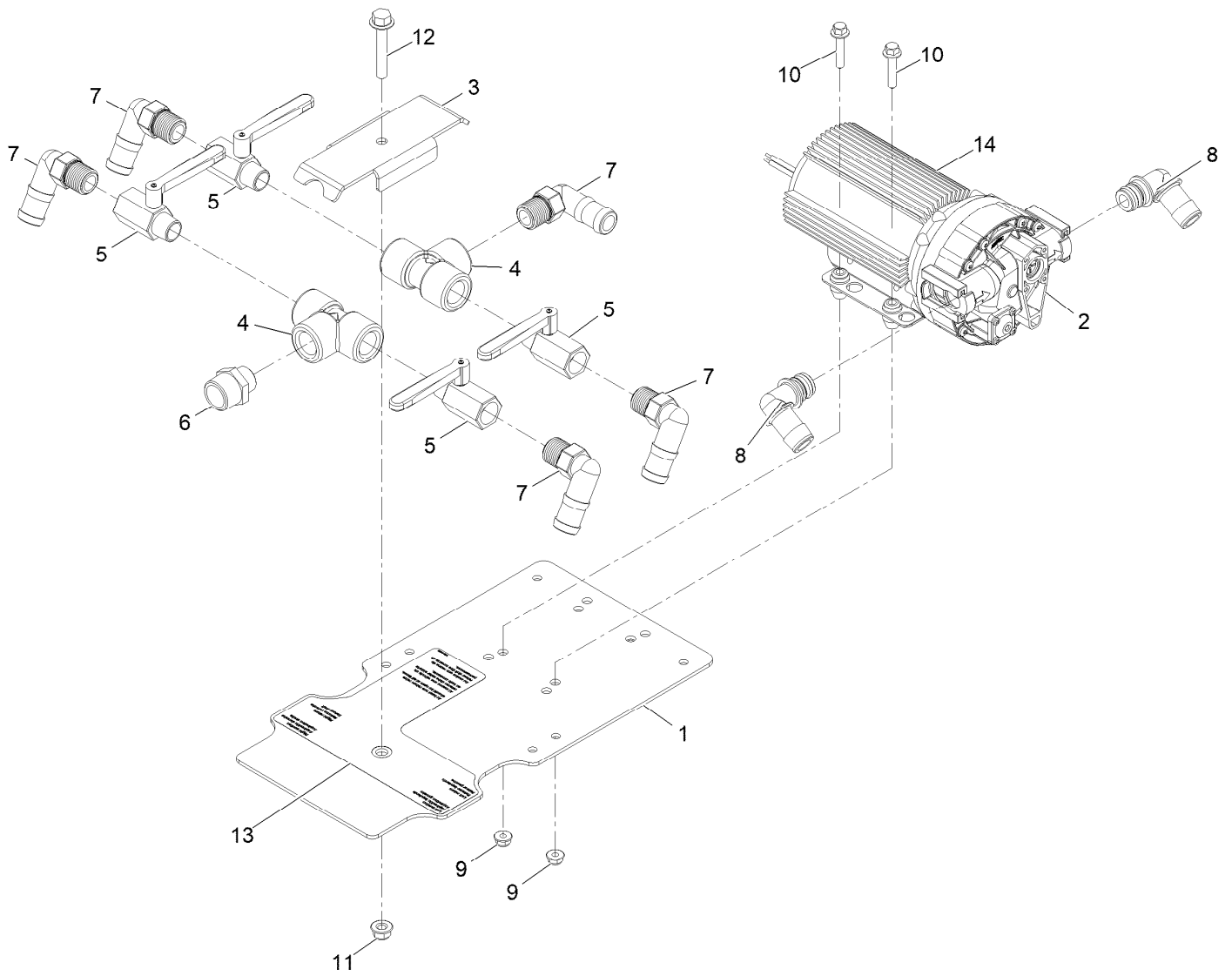
# Boom Assembly



## Boom 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           | 135-5480           | 1           | Boom-Center               | 11          | 1126               | 6           | Washer-Flat                  |
| 2           | 135-5519           | 1           | Boom-Wing, Rt             | 12          | 135-6310           | 2           | Screw-HH 3/8-16 X 4 SS       |
| 3           | 135-5516           | 1           | Boom-Wing, Lt             | 13          | 135-6110           | 4           | Nut-Hex Flg 3/8-16 SS        |
| 4           | 135-5790           | 2           | Body-Nozzle, Right        |             |                    |             | W/Patch SS                   |
| 5           | 135-5788           | 2           | Body-Nozzle, Left         | 14          | 126-0702           | 2           | Bolt-Carriage 3/8-16 X 2 1/2 |
| 6           | 138-2751           | 1           | Fitting-Tee, Barb         |             |                    |             | SS                           |
| 7           | 135-5781           | 4           | Cap-Nozzle                | 15          | 135-6806           | 2           | Nut-Hex Flange 3/8-16        |
| 7:1         | 40998              | 1           | Seat-Gasket               |             |                    |             | Serrated SS                  |
| 8           | 142-3308           | 4           | Tip-Spray, 025            | 16          | 135-6298           | 1           | Hose-Spray                   |
| 9           | 135-5780           | 2           | Spring-Extension          | 17          | 135-7129           | 1           | Hose-Spray                   |
| 10          | 126-3943           | 4           | Strainer-Nozzle, 50M 5PSI | 18          | 135-5692           | 4           | Clamp-Oetiker, 167           |
|             |                    |             | Check                     |             |                    |             |                              |

# Liquid Valve Assembly

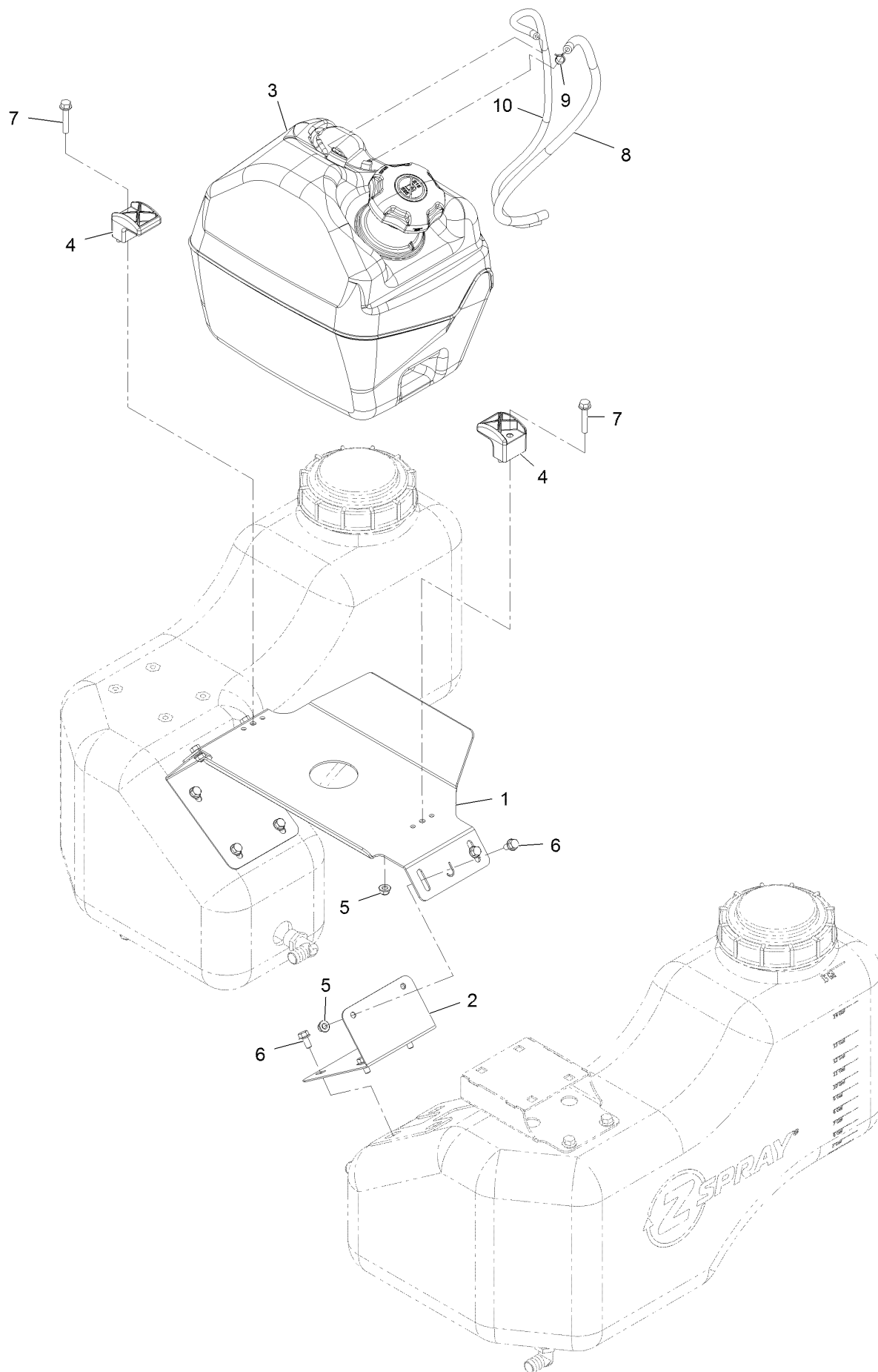




## Liquid Valve Assembly (continued)

| <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           | 135-5491           | 1           | Mount-Plate, Liquid Valve             | 10          | 135-6312           | 4           | Screw-HHF 1/4-20 X 1 1/4<br>Serrated SS |
| 2           | 142-3321           | 1           | Pump-5.3 GPM                          | 11          | 135-6109           | 1           | Nut-Hex Flg 5/16-18 Nyloc<br>SS         |
| 3           | 135-5504           | 1           | Plate-Clamp, Liquid Valve<br>Fittings | 12          | 126-2711           | 1           | Screw-HHF 5/16-18 X 2<br>Serrated SS    |
| 4           | 94-7100            | 2           | Tee                                   | 13          | 135-6420           | 1           | Decal-Valve, Tank                       |
| 5           | 135-5760           | 4           | Valve-Chrome, 1/2                     | 14          | 142-3322           | 1           | Heatsink-3.0"                           |
| 6           | 135-5742           | 1           | Fitting-Nipple                        |             |                    |             |                                         |
| 7           | 92-8557            | 5           | Elbow-90                              |             |                    |             |                                         |
| 8           | 126-4420           | 2           | Fitting-Elbow                         |             |                    |             |                                         |
| 9           | 135-6108           | 4           | Nut-Hex Flg 1/4-20 Nyloc<br>SS        |             |                    |             |                                         |

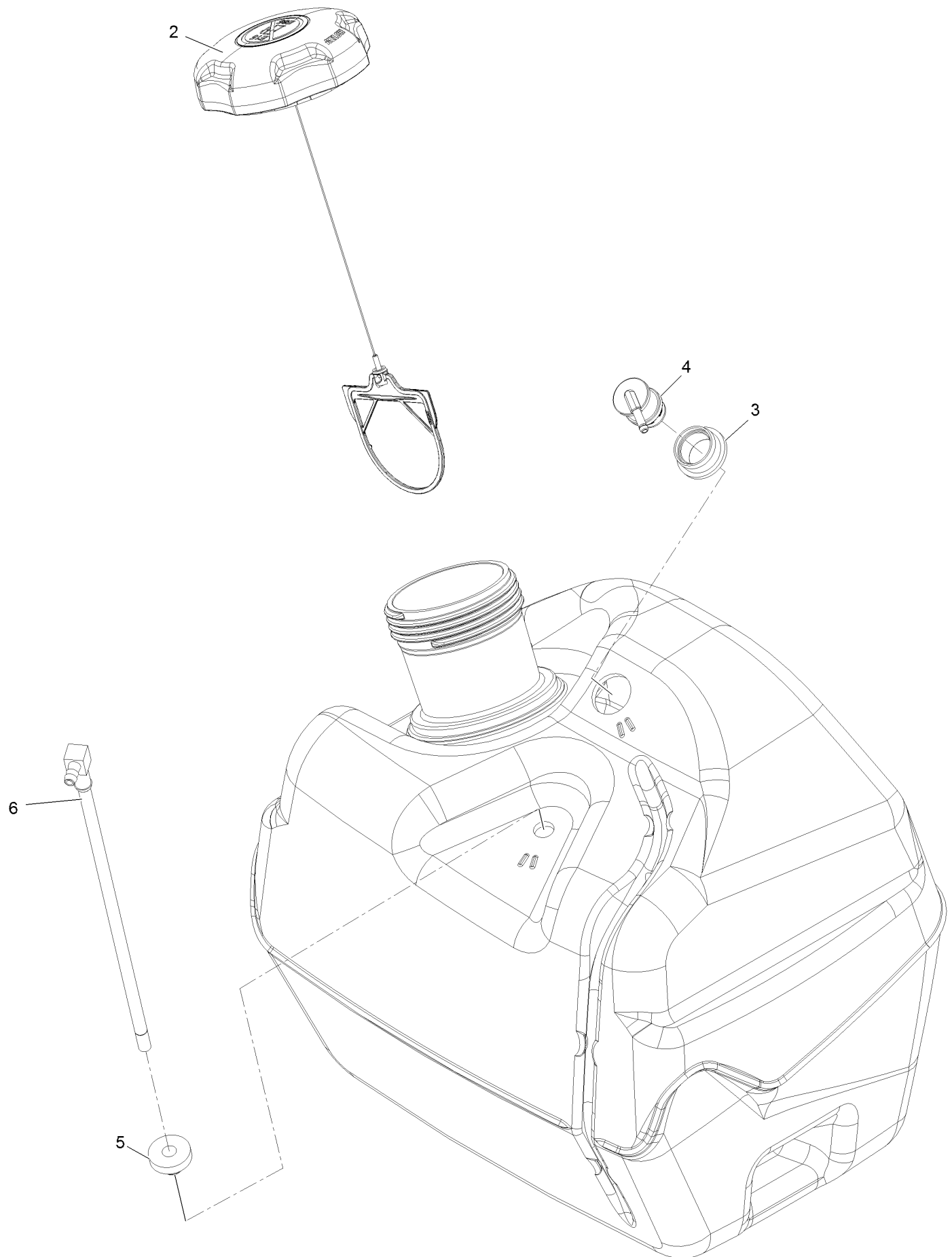
## Fuel Assembly



## 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           | 142-3018           | 1           | Support-Fuel Tank                      | 7           | 135-5779           | 2           | Screw-HHF 5/16-18 X 1 3/4 |
| 2           | 135-5560           | 2           | Bracket-Support, Gas Tank              |             |                    |             | Serrated SS               |
| 3           | 140-4343           | 1           | Fuel Tank ASM, 5 Gal                   | 8           | 109-1395           | 1           | Hose-Fuel Line 27"        |
| 4           | 107-4543           | 2           | Clamp                                  | 9           | 2412-98            | 1           | Clamp-Hose                |
| 5           | 135-6109           | 6           | Nut-Hex Flg 5/16-18 Nyloc<br>SS        | 10          | 117-9569           | 1           | Hose-Fuel                 |
| 6           | 135-7086           | 12          | Screw-HHF 5/16-18 X 5/8<br>Serrated SS |             |                    |             |                           |

# Fuel Tank Assembly No. 140-4343

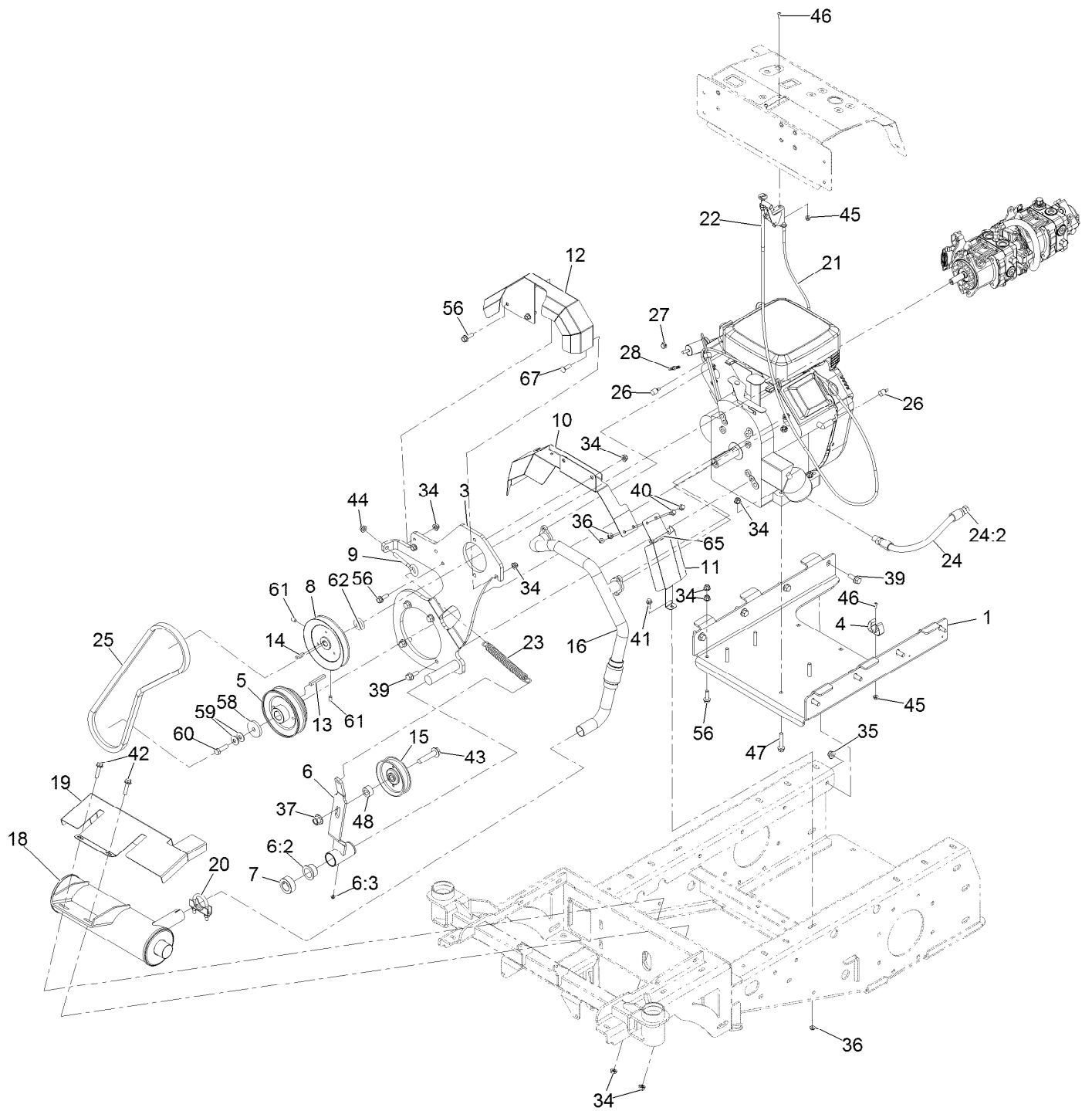


## Fuel Tank Assembly No. 140-4343 (continued)

| <i>Ref.</i> | <i>Part Number</i> | <i>Qty.</i> | <i>Description</i>   |
|-------------|--------------------|-------------|----------------------|
| 2           | 137-4119           | 1           | Cap-Fuel, Ratcheting |
| 3           | 114-0284           | 1           | Grommet              |
| 4           | 119-3547           | 1           | Valve-Vent, Fuel     |

| <i>Ref.</i> | <i>Part Number</i> | <i>Qty.</i> | <i>Description</i>               |
|-------------|--------------------|-------------|----------------------------------|
| 5           | 46-6560            | 1           | Bushing                          |
| 6           | 109-9364           | 1           | Fitting-Fuel (W/Line And Screen) |

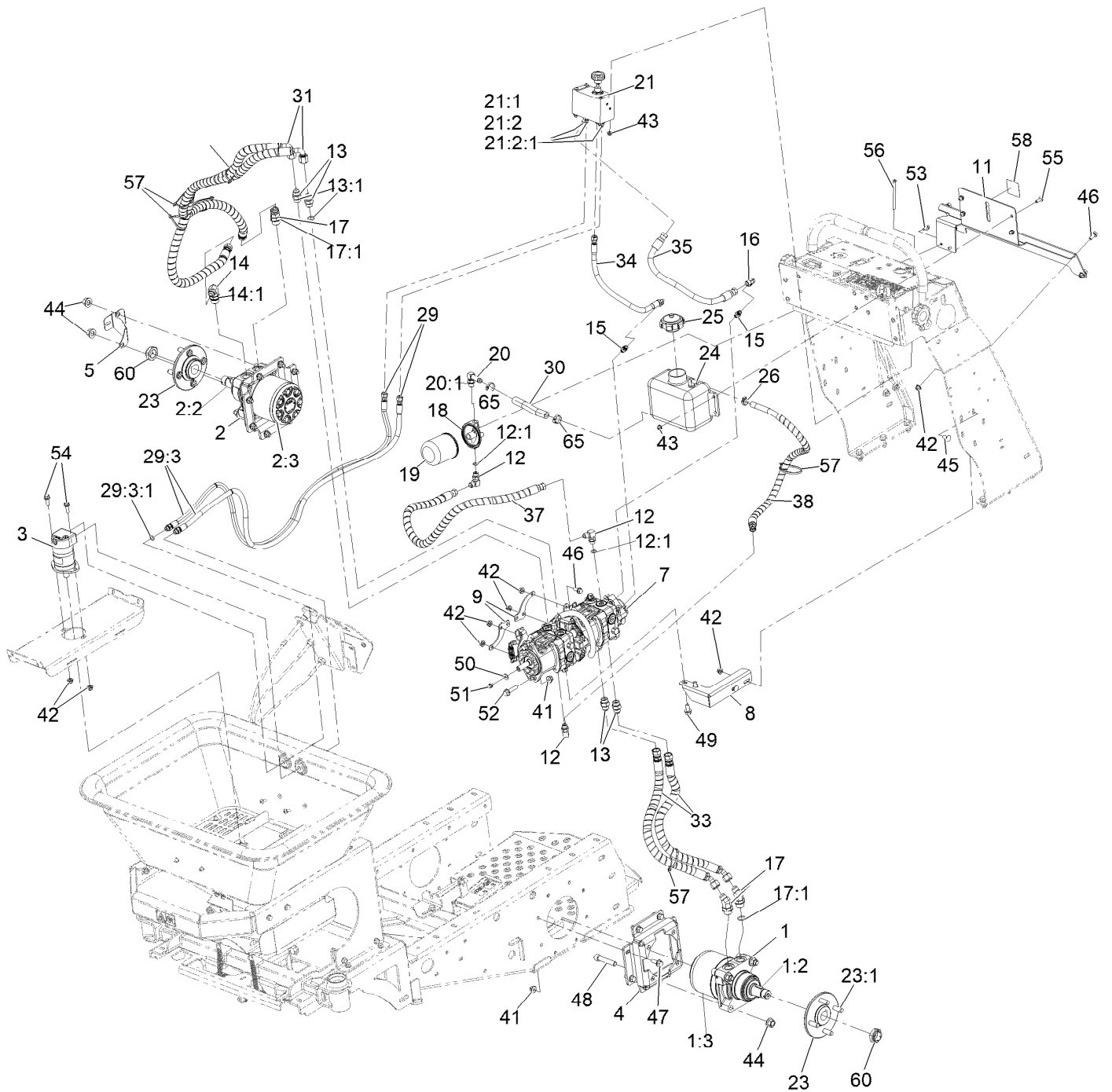
# Engine Assembly



## 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           | 135-5492           | 1           | Tray-Engine               | 35          | 135-6110           | 8           | Nut-Hex Flg 3/8-16 SS     |
| 3           | 135-5453-03        | 1           | Bracket-Engine, Pump      |             |                    |             | W/Patch SS                |
| 4           | 135-5661           | 1           | Holder-Tool, Clip         | 36          | 135-6108           | 3           | Nut-Hex Flg 1/4-20 Nyloc  |
| 5           | 135-6394           | 1           | Pulley-Double             |             |                    |             | SS                        |
| 6           | 135-5669           | 1           | Tension Arm ASM           | 37          | 99-5107            | 1           | Nut-Lock 1/2-13           |
| 6:2         | 256-132            | 2           | Bushing-Flange            | 39          | 135-6208           | 12          | Screw-HHF 3/8-16 X 1      |
| 6:3         | 302-63             | 1           | Zerk                      |             |                    |             | Serrated SS               |
| 7           | 135-5382           | 1           | Collar                    | 40          | 135-6280           | 2           | Screw-HHF 1/4-20 X 1/2    |
| 8           | 135-5663           | 1           | Pulley-Drive, Pump        |             |                    |             | Serrated SS               |
| 9           | 135-5667           | 1           | Bolt-Eye                  | 41          | 135-6221           | 1           | Screw-HHF 1/4-20 X 3/4    |
| 10          | 135-5565           | 1           | Guard-Muffler, Lower      |             |                    |             | Serrated SS               |
| 11          | 135-5566           | 1           | Guard-Muffler, Lower      | 42          | 135-6261           | 2           | Screw-HHF 5/16-18 X 1 1/4 |
| 12          | 142-3320           | 1           | Guard-Pulley              |             |                    |             | Serrated SS               |
| 13          | 103-4177           | 1           | Key                       | 43          | 3234-46            | 1           | Screw-HHF 1/2-13 X 2 1/4  |
| 14          | 1-807272           | 1           | Key-5Mm X 5Mm X 25Mm      | 44          | 104-8300           | 1           | Nut-Nyloc 5/16-18 Flg     |
| 15          | 135-5662           | 1           | Pulley-Idler, Flat        | 45          | 135-6342           | 3           | Nut-Hex Flg #10-24 Nyloc  |
| 16          | 135-7089           | 1           | Manifold-Exhaust          |             |                    |             | SS                        |
| 18          | 135-7090           | 1           | Muffler                   | 46          | 135-6374           | 3           | Screw-Button Head #10-24  |
| 19          | 135-5568           | 1           | Shield-Heat, Muffler      |             |                    |             | X 1/2 SS                  |
| 20          | 2112-11            | 1           | Clamp-Muffler             | 47          | 135-5779           | 4           | Screw-HHF 5/16-18 X 1 3/4 |
| 21          | 135-5260           | 1           | Cable-Throttle            |             |                    |             | Serrated SS               |
| 22          | 135-5707           | 1           | Cable-Choke               | 48          | 116-2959           | 1           | Spacer                    |
| 23          | 135-5780           | 1           | Spring-Extension          | 56          | 135-6272           | 5           | Screw-HHF 5/16-18 X 1     |
| 24          | 135-5365           | 1           | Oil Drain Hose ASM        |             |                    |             | Serrated SS               |
|             |                    |             | (W/Plug)                  | 58          | 110-9981           | 1           | Washer-Plain              |
| 24:2        | AU218-774          | 1           | Plug                      | 59          | 3290-340           | 2           | Washer-Belleville         |
| 25          | 135-5664           | 1           | Belt-V                    | 60          | 3211-5             | 1           | Screw-HH 3/8-24 X 1 1/4   |
| 26          | 135-5677           | 2           | Tube-Shrink, Heat         | 61          | 3246-17            | 2           | Screw-Set 5/16-24 X 1/2   |
| 27          | 2412-98            | 1           | Clamp-Hose                | 62          | 1-323539           | 1           | Spacer-Blade Drive        |
| 28          | 120-1996           | 1           | Fitting-STR               | 65          | 3290-378           | 1           | Tie-Cable                 |
| 34          | 135-6109           | 13          | Nut-Hex Flg 5/16-18 Nyloc | 67          | HDW17294           | 1           | Bolt-Carriage 5/16-18 X 1 |
|             |                    |             | SS                        |             |                    |             | SS                        |

# Hydraulic Assembly



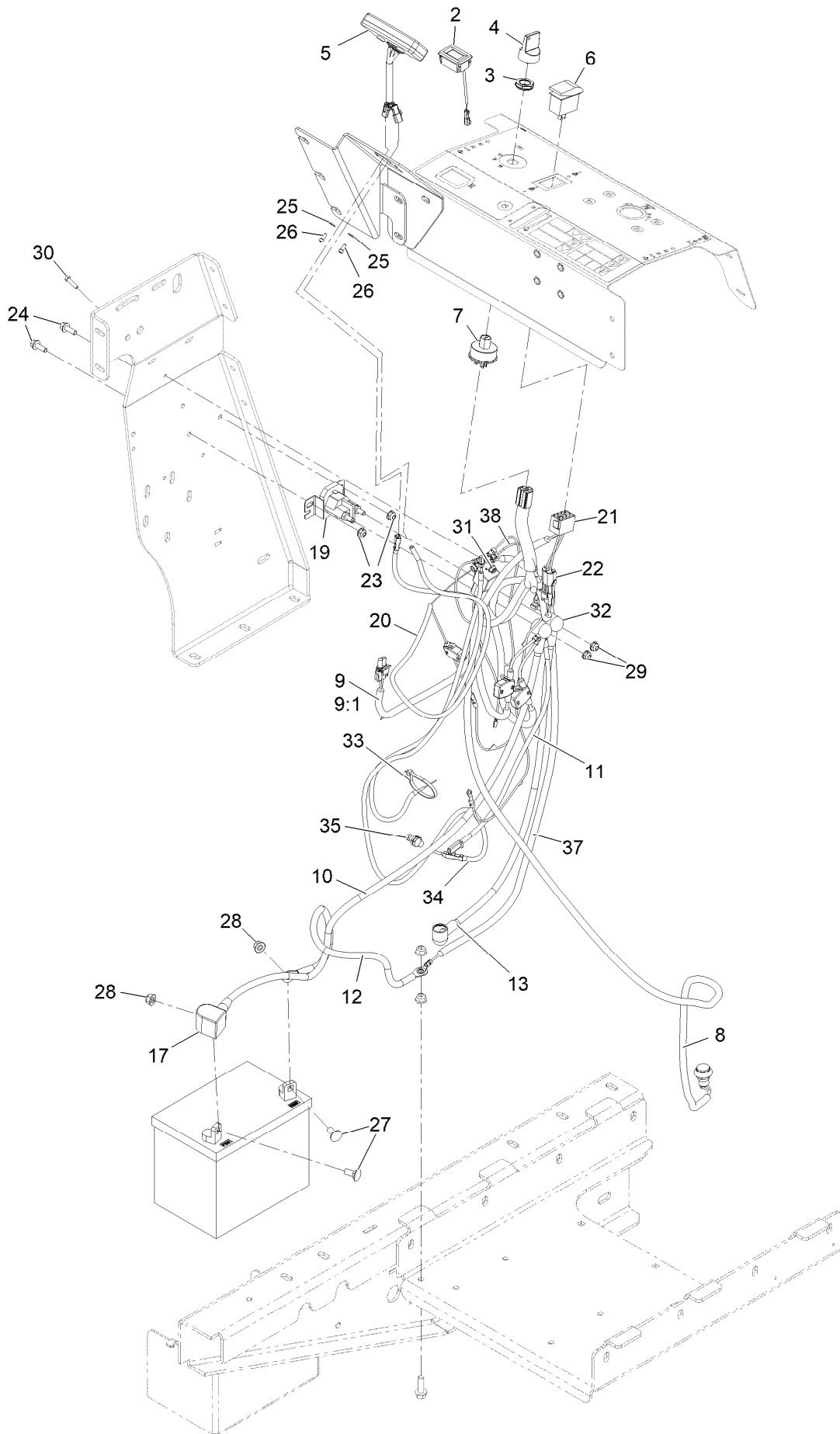


## Hydraulic Assembly (continued)

| <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           | 135-5230           | 1           | Motor-Wheel, LH                       | 29:3        |                    | 1           | Fitting-Straight, Rigid ●                   |
| 1:2         | 3257-42            | 1           | Key-Woodruff 5/16 X 1                 | 29:3:1      | 237-42             | 1           | O-Ring                                      |
| 1:3         | 103-6994           | 1           | Seal Kit                              | 30          | 109-5577           | 1           | Hose-Hydraulic                              |
| 2           | 135-5231           | 1           | Motor-Wheel, RH                       | 31          | 142-3115           | 2           | Hose ASM-HYD HP                             |
| 2:2         | 3257-42            | 1           | Key-Woodruff 5/16 X 1                 | 33          | 142-3117           | 2           | Hose ASM-HYD HP                             |
| 2:3         | 103-6994           | 1           | Seal Kit                              | 34          | 142-3113           | 1           | Hose ASM-HYD HP                             |
| 3           | 135-5243           | 1           | Motor-Hydraulic, Spreader             | 35          | 135-5361           | 1           | Hose ASM, HYD LP                            |
| 4           | 135-5524           | 2           | Mount-Motor, Wheel                    | 37          | 135-5385           | 1           | Hose ASM, HYD LP                            |
| 5           | 135-5574           | 1           | Bracket-Hopper,<br>Speedometer Sensor | 38          | 135-5456           | 1           | Hose ASM, HYD LP                            |
| 7           | 135-5665           | 1           | Pump-Tandem                           | 41          | 135-6110           | 18          | Nut-Hex Flg 3/8-16 SS<br>W/Patch SS         |
| 8           | 135-5551           | 1           | Bracket-Support, Hydro<br>Pump        | 42          | 135-6109           | 12          | Nut-Hex Flg 5/16-18 Nyloc<br>SS             |
| 9           | 135-5558           | 2           | Extension-Pump, Hydro                 | 43          | 135-6108           | 8           | Nut-Hex Flg 1/4-20 Nyloc<br>SS              |
| 11          | 135-5550           | 1           | Mount-Tank And Filter,<br>Hydraulic   | 44          | 99-5107            | 8           | Nut-Lock 1/2-13                             |
| 12          | 103-1802           | 3           | Fitting-Elbow, 90 DEG                 | 45          | 126-0695           | 2           | Screw-Carriage 5/16-18 X<br>3/4 SS          |
| 12:1        | 237-42             | 1           | O-Ring                                | 46          | 126-2712           | 8           | Screw-HHF 5/16-18 X 3/4<br>Serrated SS      |
| 13          | 353-388            | 4           | Fitting-Straight                      | 47          | 135-6208           | 16          | Screw-HHF 3/8-16 X 1<br>Serrated SS         |
| 13:1        | 237-79             | 1           | O-Ring                                | 48          | 3274-71            | 8           | Screw-HSH 1/2-13 X 2 1/2                    |
| 14          | 353-426            | 1           | Fitting-90 DEG                        | 49          | 135-6274           | 2           | Screw-HHF 3/8-16 X 3/4 SS                   |
| 14:1        | 237-80             | 1           | O-Ring                                | 50          | 135-6273           | 1           | Washer                                      |
| 15          | 353-545            | 2           | Fitting-Straight                      | 51          | 81-1280            | 1           | Screw-HHF M6-1 X 10Mm                       |
| 16          | 135-5680           | 1           | Fitting-Swivel, 90 DEG                | 52          | 135-6278           | 2           | Screw-HHF 3/8-16 X 1 1/2<br>Serrated SS     |
| 17          | 135-5696           | 3           | Fitting-Elbow, 45 DEG                 | 53          | 135-6280           | 2           | Screw-HHF 1/4-20 X 1/2<br>Serrated SS       |
| 17:1        | 237-80             | 1           | O-Ring                                | 54          | 135-6272           | 2           | Screw-HHF 5/16-18 X 1<br>Serrated SS        |
| 18          | 104-7836           | 1           | Filter-Head                           | 55          | 135-7080           | 4           | Screw-Button Head Flange<br>1/4-20 X 3/4 SS |
| 19          | 109-4180           | 1           | Element, Oil Filter                   | 56          | 135-6385           | 4           | Screw-Button Head 1/4-20<br>X 3 1/2 SS      |
| 20          | 109-6449           | 1           | Fitting-Elbow, 90                     | 57          | 3290-378           | 6           | Tie-Cable                                   |
| 20:1        | 237-42             | 1           | O-Ring                                | 58          | 135-6398           | 1           | Decal-Oil                                   |
| 21          | 142-4324           | 1           | Manifold-Flow Control,<br>Hopper      | 60          | 116-1399           | 2           | Locknut                                     |
| 21:1        | 01-201-0780        | 3           | HYD Fitting 6400-4-6                  | 65          | 135-5692           | 2           | Clamp-Oetiker, 167                          |
| 21:2        | 353-212            | 1           | Fitting-Elbow, 45 DEG                 |             |                    |             |                                             |
| 21:2:1      | 237-42             | 1           | O-Ring                                |             |                    |             |                                             |
| 23          | 135-7525           | 2           | Hub-Wheel                             |             |                    |             |                                             |
| 23:1        | 135-7526           | 4           | Stud-Wheel                            |             |                    |             |                                             |
| 24          | 135-5712           | 1           | Tank-Hydraulic, Plastic               |             |                    |             |                                             |
| 25          | 135-5713           | 1           | Cap-Vented                            |             |                    |             |                                             |
| 26          | 135-5757           | 1           | Clamp-Oetiker, 167                    |             |                    |             |                                             |
| 29          | 142-6167           | 2           | Hose ASM-HYD HP                       |             |                    |             |                                             |

● Not serviced separately

# 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>          |
|-------------|--------------------|-------------|--------------------------|-------------|--------------------|-------------|-----------------------------|
| 2           | 135-5259           | 1           | Meter-Tach/Hour          | 24          | 135-6221           | 2           | Screw-HHF 1/4-20 X 3/4      |
| 3           | 135-5715           | 1           | Nut-Switch, Key          |             |                    |             | Serrated SS                 |
| 4           | 1-603511           | 1           | Key-Ignition             | 25          | 126-0759           | 2           | Washer-Flat                 |
| 4           | 135-5708           | 1           | Key-Umbrella             | 26          | 135-6357           | 2           | Screw-HSH M4-0.7 X 10Mm     |
| 5           | 135-8900           | 1           | Striker-Head Only        | 27          | 126-0695           | 2           | Screw-Carriage 5/16-18 X    |
| 6           | 100-8469           | 1           | Switch-Rocker            |             |                    |             | 3/4 SS                      |
| 7           | 135-6052           | 1           | Switch-Ignition          | 28          | 135-6109           | 2           | Nut-Hex Flg 5/16-18 Nyloc   |
| 8           | 135-6054           | 1           | Switch-Push Button       |             |                    |             | SS                          |
| 9           | 135-6113           | 1           | Harness-Main             | 29          | 104-7201           | 2           | Nut-Nyloc 1/4-20 Flg        |
| 9:1         | 135-6270           | 1           | Relay-Mini ISO Pwr, 5M   | 30          | 135-6356           | 1           | Screw-HH #10-24 X 3/4 SS    |
| 10          | 135-6114           | 1           | Cable-Positive           | 31          | 135-6342           | 1           | Nut-Hex Flg #10-24 Nyloc    |
| 11          | 135-6115           | 1           | Wire-Solenoid            |             |                    |             | SS                          |
| 12          | 135-6116           | 1           | Cable-Ground             | 32          | 1-543393           | 3           | Insulator-Solenoid          |
| 13          | 135-6117           | 1           | Cable-Positive           | 33          | 3290-378           | 9           | Tie-Cable                   |
| 17          | 135-2304           | 1           | Insulator-Battery        | 34          | 135-8898           | 1           | Cable-Sensor, Trail Tech    |
| 19          | 135-6189           | 1           | Solenoid-Starter         | 35          | 135-8903           | 1           | Magnet-Speedometer          |
| 20          | 135-6443           | 1           | Harness-Striker          | 37          | 135-3998           | 1           | Harness-Wire, Jumper        |
| 21          | 32160-008          | 1           | Connector-Carling, 8F    | 38          | 142-4834           | 1           | Wire-Ground                 |
| 22          | 32160-072          | 1           | Connector-Wp,2M          | 99          | 135-7317           | 1           | Manual-User, Striker ●      |
| 23          | 135-6108           | 2           | Nut-Hex Flg 1/4-20 Nyloc | 99          | 135-7318           | 1           | Card-Striker, Quick Start ● |
|             |                    |             | SS                       |             |                    |             |                             |

● Not illustrated

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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