

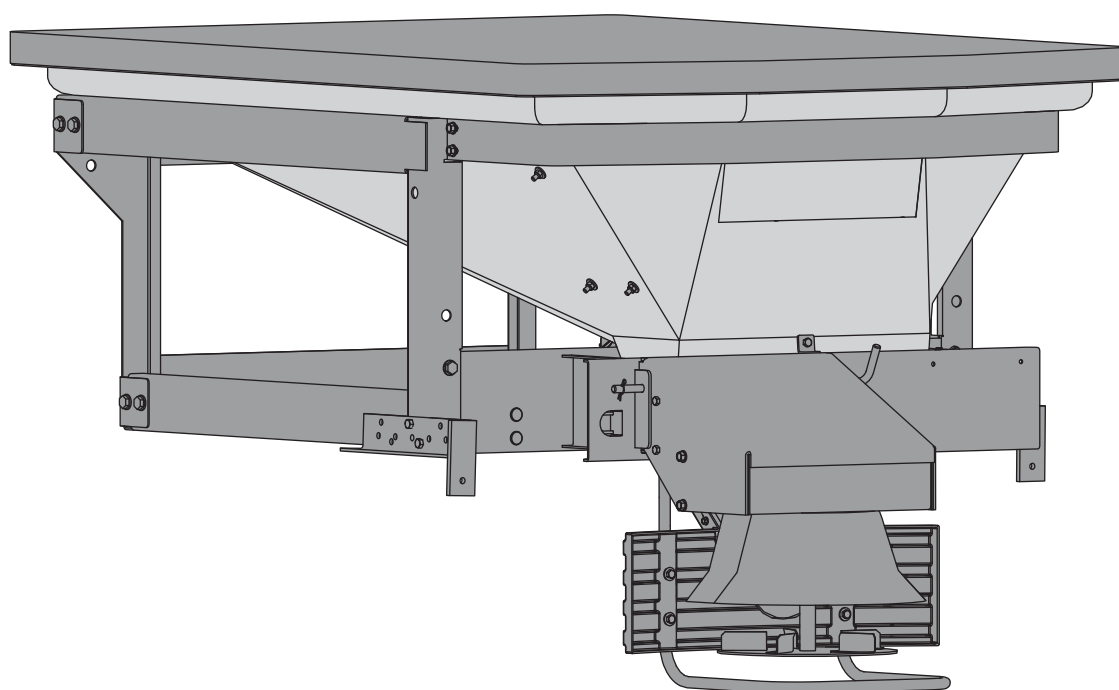


# 78901

## Hopper Spreader Components

### Tornado™ LT Hopper Spreader

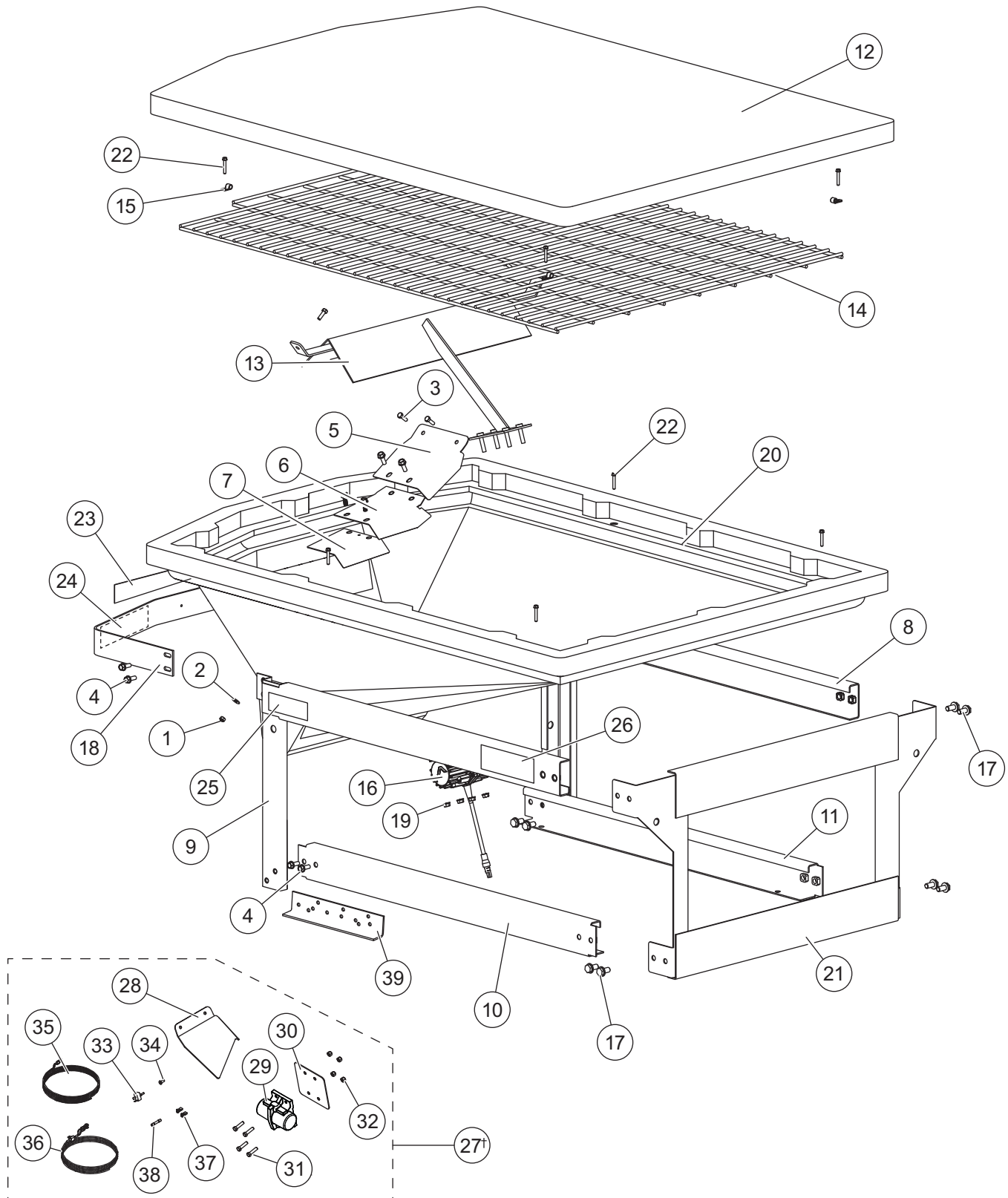
### Parts List



This Parts List is for WESTERN® Tornado LT hopper spreaders with serial numbers 0000 and higher.

# Tornado™ LT HOPPER SPREADER

## FRAME AND HOPPER ASSEMBLY

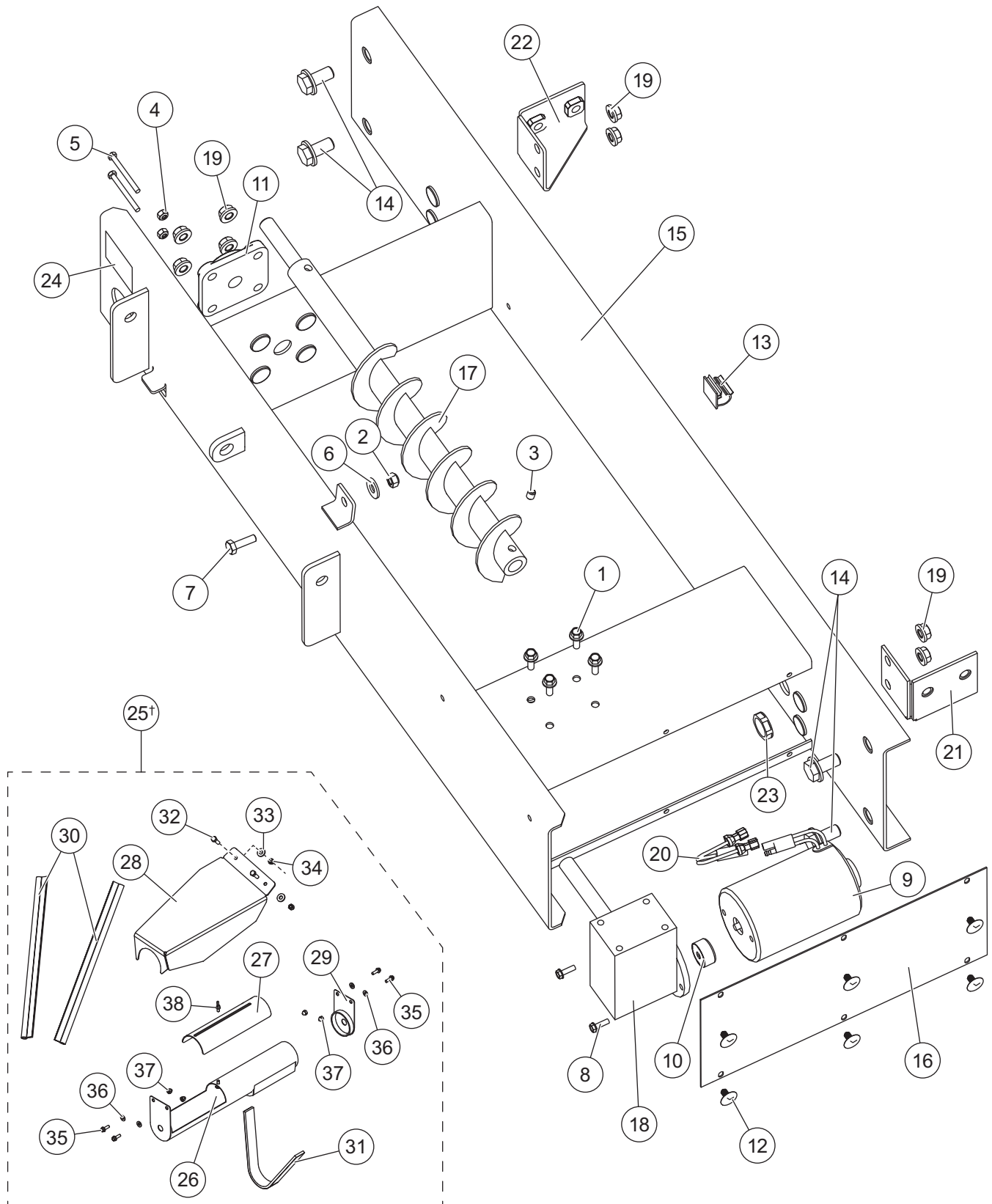


# Tornado™ LT HOPPER SPREADER

| Frame Assembly  |       |     |                                   |                                    |       |           |                                   |
|-----------------|-------|-----|-----------------------------------|------------------------------------|-------|-----------|-----------------------------------|
| Item            | Part  | Qty | Description                       | Item                               | Part  | Qty       | Description                       |
| 1               | 91332 | 4   | 5/16-18 Hex Locknut GB            | 15                                 | 51066 | 4         | 5/16 Clamp                        |
| 2               | 90313 | 4   | 5/16 Flat Washer                  | 16                                 | 51068 | 1         | Vibrator 0.5 yd Hopper            |
| 3               | 68494 | 4   | 5/16-18 x 1 Hex Cap Screw         | 17                                 | 51074 | 8         | 1/2-13 x 1 Hex Cap Screw Serrated |
| 4               | 51049 | 12  | 3/8-16 x 1 Serrated Flange Type F | 18                                 | 51075 | 1         | Hopper Apron                      |
| 5               | 51052 | 1   | Main Baffle                       | 19                                 | 51092 | 4         | 3/8-16 Serrated Flange Nut        |
| 6               | 51053 | 1   | Secondary Baffle                  | 20                                 | 51093 | 1         | Hopper, Tornado LT, Red           |
| 7               | 51054 | 1   | Third Baffle                      | 21                                 | 51099 | 1         | Front Frame                       |
| 8               | 51055 | 1   | Frame Right                       | 22                                 | 51103 | 8         | 1/4 x 1-1/2 Driller w/Washer      |
| 9               | 51056 | 1   | Frame Left                        | 23                                 | 51104 | 1         | Conspicuity Tape                  |
| 10              | 51057 | 1   | Lower Rail Right                  | 24                                 | 43113 | 1         | Label, Tornado LT Logo            |
| 11              | 51058 | 1   | Lower Rail Left                   | 25                                 | D6546 | 1         | Label, Warning GVWR               |
| 12              | 51062 | 1   | Tarp Kit                          | 26                                 | 69809 | 2         | Label, WESTERN® Logo              |
| 13              | 51064 | 1   | Inverted V 0.5 yd Hopper          | 27†                                | 51106 | 1         | Optimum Flow Kit                  |
| 14              | 51065 | 1   | Top Screen 0.5 yd Hopper          | ns                                 | 51019 | 1         | Spreader Mounting Kit             |
| <b>Item 27†</b> |       |     |                                   | <b>51106 Optimum Flow Kit</b>      |       |           |                                   |
| 28              | 88295 | 1   | Opti-Flow Baffle                  | 34                                 | 88291 | 1         | Rubber Switch Boot                |
| 29              | 88283 | 1   | DC-80 Vibrator                    | 35                                 | 88289 | 1         | Spreader/Vehicle Harness 20'      |
| 30              | 88284 | 1   | Vibrator Backing Plate            | 36                                 | 88290 | 1         | Battery Harness 10'               |
| 31              | 90043 | 4   | 3/8-16 x 2 Hex Cap Screw G5       | 37                                 | 88294 | 2         | Spade Connector                   |
| 32              | 91333 | 4   | 3/8-16 Hex Locknut GB             | 38                                 | 88287 | 1         | Butt Connector                    |
| 33              | 88285 | 1   | ON/OFF Switch                     | ns                                 | 88288 | 1         | Dielectric Grease                 |
|                 |       |     |                                   | <b>51019 Spreader Mounting Kit</b> |       |           |                                   |
| 39              | 51078 | 1   | Adjustable Stop Bracket, Right    | ns                                 | 90572 | 4         | 1/2 Flat Washer, Hardened         |
| ns              | 51079 | 1   | Adjustable Stop Bracket, Left     | ns                                 | 91335 | 4         | 1/2-13 Hex Locknut GB             |
| ns              | 51063 | 1   | Ratchet Strap (pkg of 4)          | ns                                 | 90039 | 4         | 3/8-16 x 1 Hex Cap Screw G5       |
| ns              | 90210 | 4   | 1/2-13 x 1-1/2 Hex Cap Screw G5   | ns                                 | 91333 | 4         | 3/8-16 Hex Locknut GB             |
| ns = not shown  |       |     |                                   | † = Accessory Only                 |       | G = Grade |                                   |

# Tornado™ LT HOPPER SPREADER

## AUGER ASSEMBLY

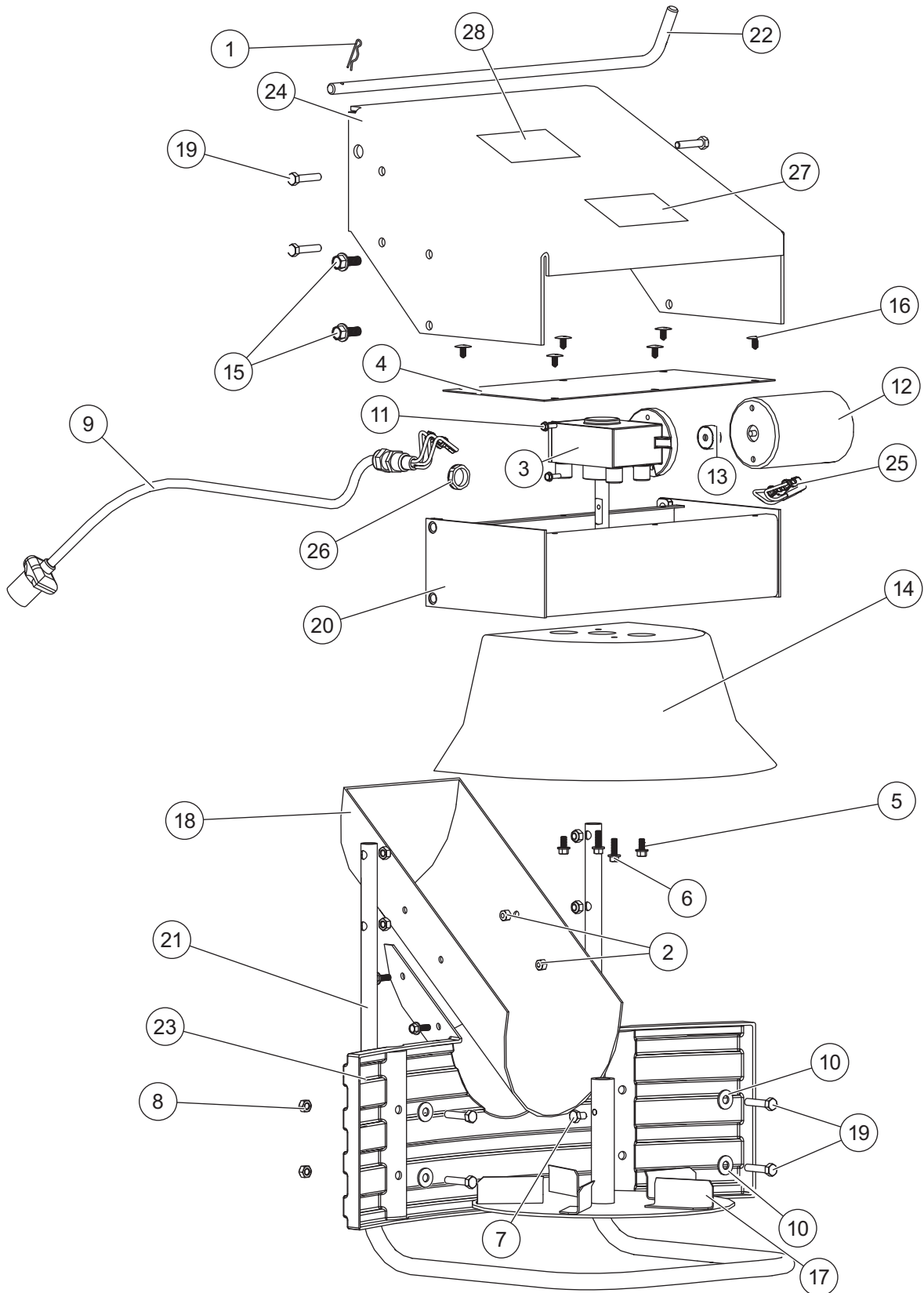


# Tornado™ LT HOPPER SPREADER

| Auger Assembly             |       |     |                                      |                                        |       |           |                                                |
|----------------------------|-------|-----|--------------------------------------|----------------------------------------|-------|-----------|------------------------------------------------|
| Item                       | Part  | Qty | Description                          | Item                                   | Part  | Qty       | Description                                    |
| 1                          | 51031 | 4   | 1/4-20 x 3/4 Serrated Flange SS      | 14                                     | 51074 | 4         | 1/2-13 x 1 Hex Cap Screw Serrated              |
| 2                          | 91332 | 1   | 5/16-18 Hex Locknut GB               | 15                                     | 51076 | 1         | Auger Drive Weldment                           |
| 3                          | 51034 | 1   | 5/16-18 x 3/8 Set Screw              | 16                                     | 51077 | 1         | Auger Motor Cover                              |
| 4                          | 88266 | 2   | #10-32 Hex Locknut                   | 17                                     | 51087 | 1         | Auger                                          |
| 5                          | 51035 | 2   | #10-32 x 2 Hex Cap Screw SS          | 18                                     | 51090 | 1         | Transmission 30:1                              |
| 6                          | 90313 | 1   | 5/16 Flat Washer                     | 19                                     | 51092 | 8         | 3/8-16 Flange Nut, Serrated                    |
| 7                          | 68494 | 1   | 5/16-18 x 1 Hex Cap Screw            | 20                                     | 51096 | 1         | Spinner Motor Connector                        |
| 8                          | 51039 | 2   | #10-32 x 5/8 Serrated Flange w/Patch | 21                                     | 88269 | 1         | Lower Rail Mount Bracket Right                 |
| 9                          | 51040 | 1   | 3" 12 V DC Motor w/2-Pin Connector   | 22                                     | 51098 | 1         | Lower Rail Mount Bracket Left                  |
| 10                         | 51041 | 1   | Motor Drive Coupler                  | 23                                     | 51101 | 1         | 1/2" NPT Nut Black Nylon                       |
| 11                         | 51043 | 1   | 5/8 Bearing 4 Bolt Flange            | 24                                     | D6548 | 1         | Label, Warning – Read Manual                   |
| 12                         | 51050 | 6   | 1/4 x 3/4 x 1/2 Push Retainer        | 25 <sup>†</sup>                        | 51107 | 1         | Auger Tube Restrictor Kit                      |
| 13                         | 51051 | 1   | 3/8 Wire Clamp                       |                                        |       |           |                                                |
| <b>Item 25<sup>†</sup></b> |       |     |                                      | <b>51107 Auger Tube Restrictor Kit</b> |       |           |                                                |
| 26                         | 88275 | 1   | Auger Tube                           | 33                                     | 90313 | 2         | 5/16 Flat Washer                               |
| 27                         | 88277 | 1   | Gate Slide, Auger Tube               | 34                                     | 91332 | 2         | 5/16-18 Hex Locknut GB                         |
| 28                         | 88278 | 1   | Material Baffle TRK-3000             | 35                                     | 51031 | 4         | 1/4-20 x 3/4 Hex Cap Screw, Serrated Flange SS |
| 29                         | 88276 | 1   | End Cap, Auger Tube                  | 36                                     | 50969 | 4         | 1/4 Flat Washer SS                             |
| 30                         | 88281 | 1   | Edge Grip Seal – 36"                 | 37                                     | 50970 | 4         | 1/4-20 Hex Locknut Waxed SS                    |
| 31                         | 88282 | 1   | 1-1/4" Adhesive-Back Foam – 18"      | 38                                     | 88274 | 1         | 1/4-20 Wing Nut SS                             |
| 32                         | 68494 | 2   | 5/16-18 x 1 Hex Cap Screw G5         |                                        |       |           |                                                |
| SS = Stainless Steel       |       |     |                                      | † = Accessory Only                     |       | G = Grade |                                                |

# Tornado™ LT HOPPER SPREADER

## DRIVE ASSEMBLY

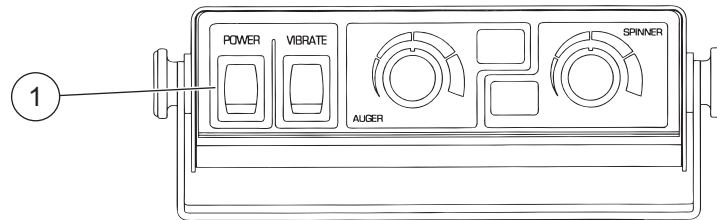


# Tornado™ LT HOPPER SPREADER

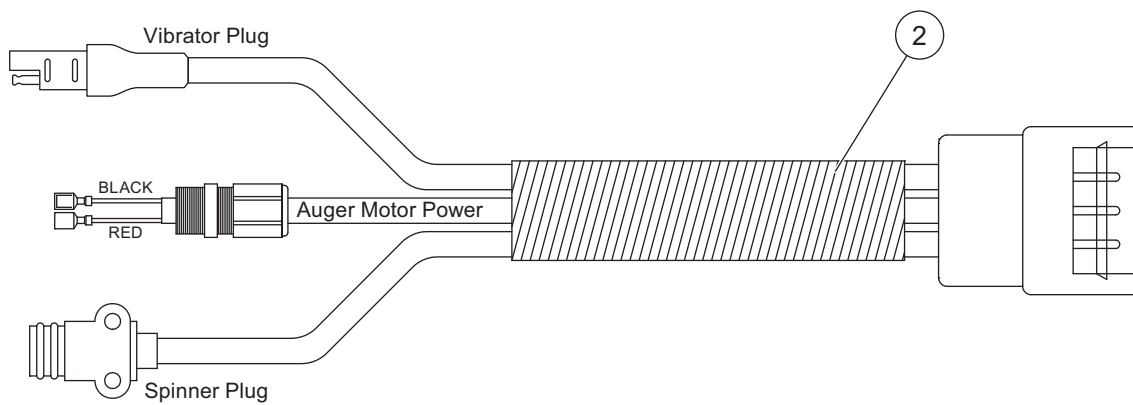
| Drive Assembly |       |     |                                      |                      |       |     |                                   |
|----------------|-------|-----|--------------------------------------|----------------------|-------|-----|-----------------------------------|
| Item           | Part  | Qty | Description                          | Item                 | Part  | Qty | Description                       |
| 1              | 51024 | 1   | 0.093 x 2-3/8 Hairpin Cotter         | 15                   | 51049 | 4   | 3/8-16 x 1 Serrated Flange Type F |
| 2              | 91331 | 4   | 1/4-20 Hex Locknut GB                | 16                   | 51050 | 6   | 1/4 x 3/4 x 1/2 Push Retainer     |
| 3              | 51028 | 1   | Transmission 8:1                     | 17                   | 51069 | 1   | Spinner w/Extended Shaft 12"      |
| 4              | 51029 | 1   | Spinner Drive Enclosure              | 18                   | 51070 | 1   | Material Chute                    |
| 5              | 51030 | 2   | 1/4-20 x 1/2 Serrated Flange SS      | 19                   | 51072 | 8   | 5/16-18 x 1-1/2 Tapping Screw     |
| 6              | 51031 | 6   | 1/4-20 x 3/4 Serrated Flange SS      | 20                   | 51080 | 1   | Spinner Drive Enclosure           |
| 7              | 51032 | 1   | 5/16-18 x 1/2 Hex Cap Screw G5       | 21                   | 51081 | 1   | Tubular Spinner Guard             |
| 8              | 91332 | 8   | 5/16-18 Hex Locknut GB               | 22                   | 51088 | 1   | Bent Pin                          |
| 9              | 51036 | 1   | Power Cable                          | 23                   | 51089 | 1   | Spinner Deflector                 |
| 10             | 90313 | 4   | 5/16 Flat Washer                     | 24                   | 51091 | 1   | Drive Enclosure Shroud            |
| 11             | 51039 | 2   | #10-32 x 5/8 Serrated Flange w/Patch | 25                   | 51097 | 1   | Auger Motor Connector             |
| 12             | 51040 | 1   | 3" 12 V DC Motor w/2-Pin             | 26                   | 51101 | 1   | 1/2" NPT Nut Black Nylon          |
| 13             | 51041 | 1   | Motor Drive Coupler                  | 27                   | D6544 | 1   | Label, Warning Rotating Parts     |
| 14             | 51045 | 1   | CE Shroud                            | 28                   | D6545 | 1   | Label, Warning No Step            |
| ns = not shown |       |     |                                      | SS = Stainless Steel |       |     |                                   |
|                |       |     |                                      | G = Grade            |       |     |                                   |

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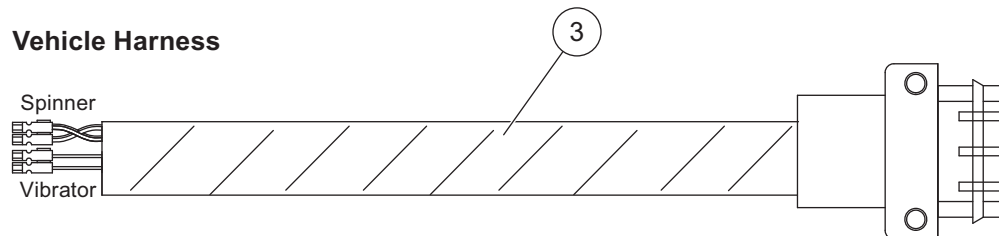
## ELECTRICAL COMPONENTS



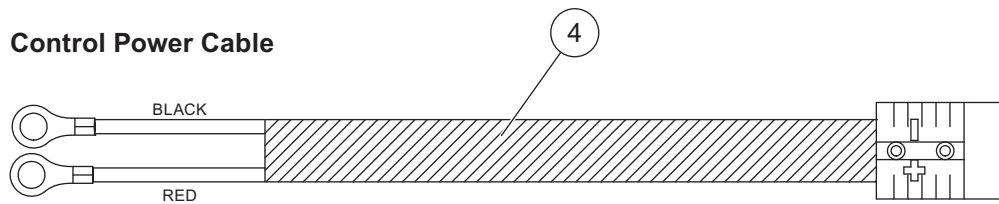
### Spreader Harness



### Vehicle Harness



### Control Power Cable



## Tornado™ LT HOPPER SPREADER

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| Electrical Components |       |     |                  |      |       |     |                     |
|-----------------------|-------|-----|------------------|------|-------|-----|---------------------|
| Item                  | Part  | Qty | Description      | Item | Part  | Qty | Description         |
| 1                     | 51037 | 1   | Spreader Control | 3    | 51086 | 1   | Vehicle Harness     |
| 2                     | 51067 | 1   | Spreader Harness | 4    | 51105 | 1   | Control Power Cable |

# **Tornado™ LT HOPPER SPREADER**

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