



Hopper and Drive Components

Tornado™ Hopper Spreader

#78000-1, 78003-1, 78006-1

Parts List

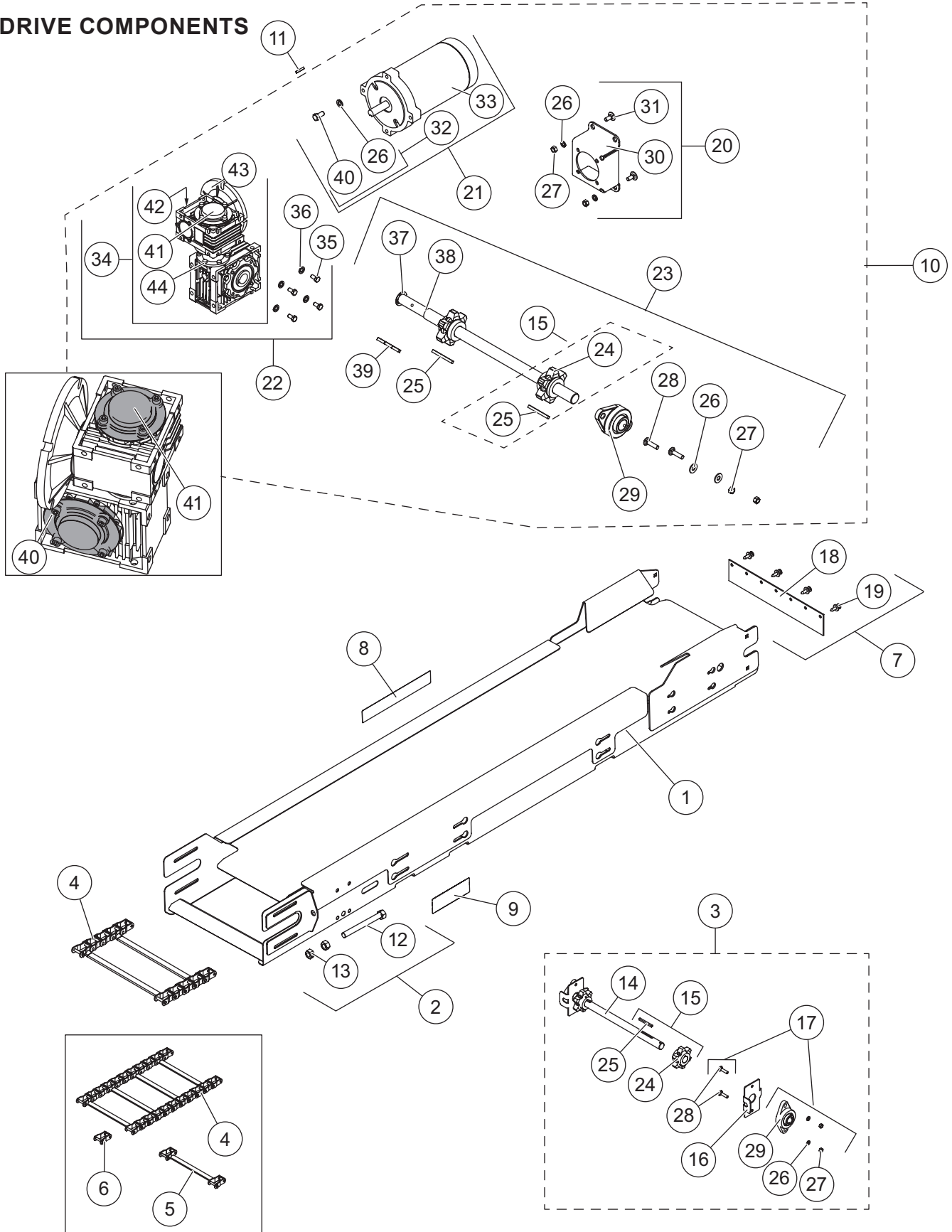


This Parts List is for WESTERN® Tornado hopper spreaders
with serial numbers beginning with 201211 and higher.

* Fits units with serial numbers beginning with 180530 and lower.
† Fits units with serial numbers beginning with 180531 and higher.

Tornado™ HOPPER SPREADER

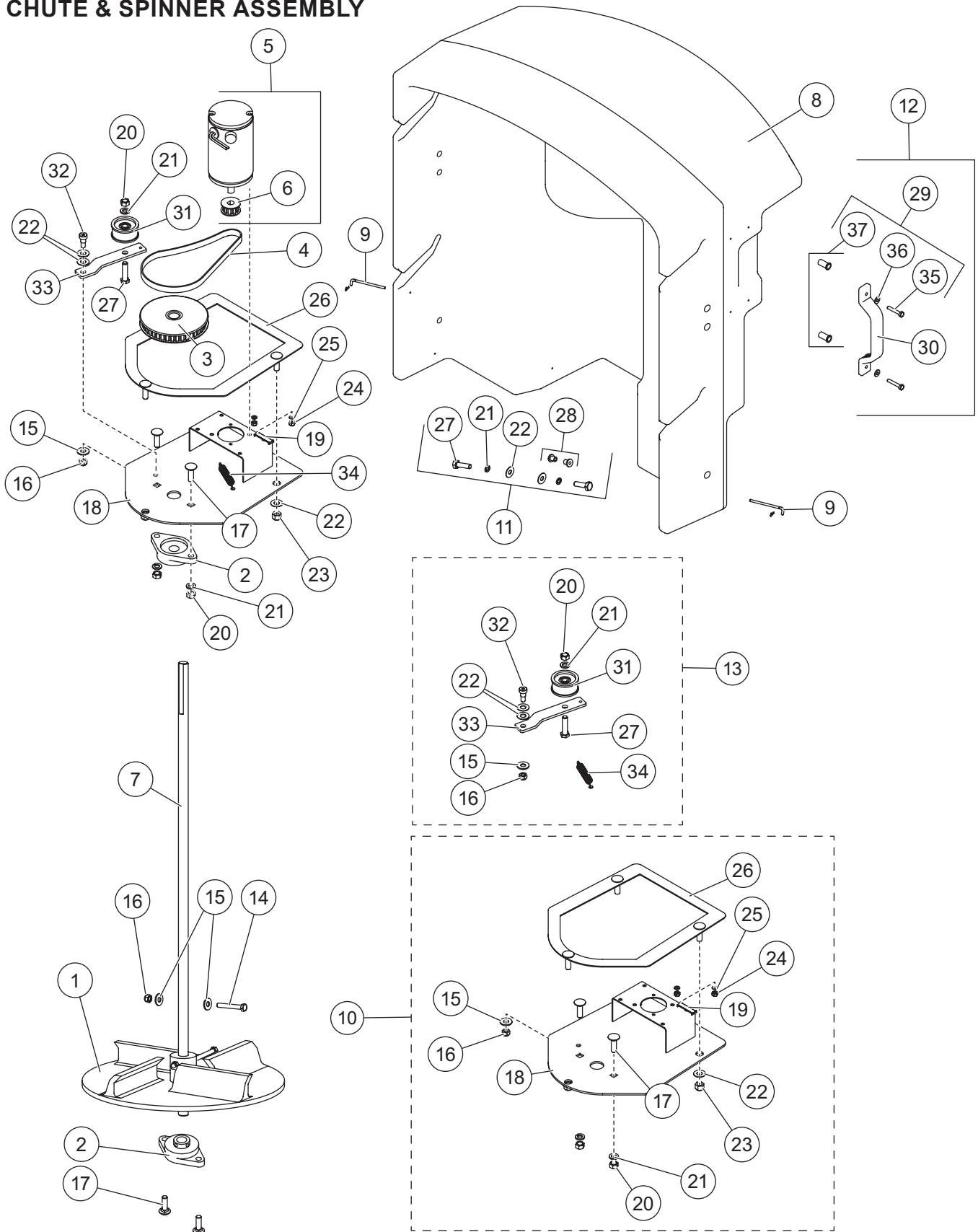
DRIVE COMPONENTS



Lit. No. 77537, Rev. 09 5 October 1, 2024

Tornado™ HOPPER SPREADER

CHUTE & SPINNER ASSEMBLY

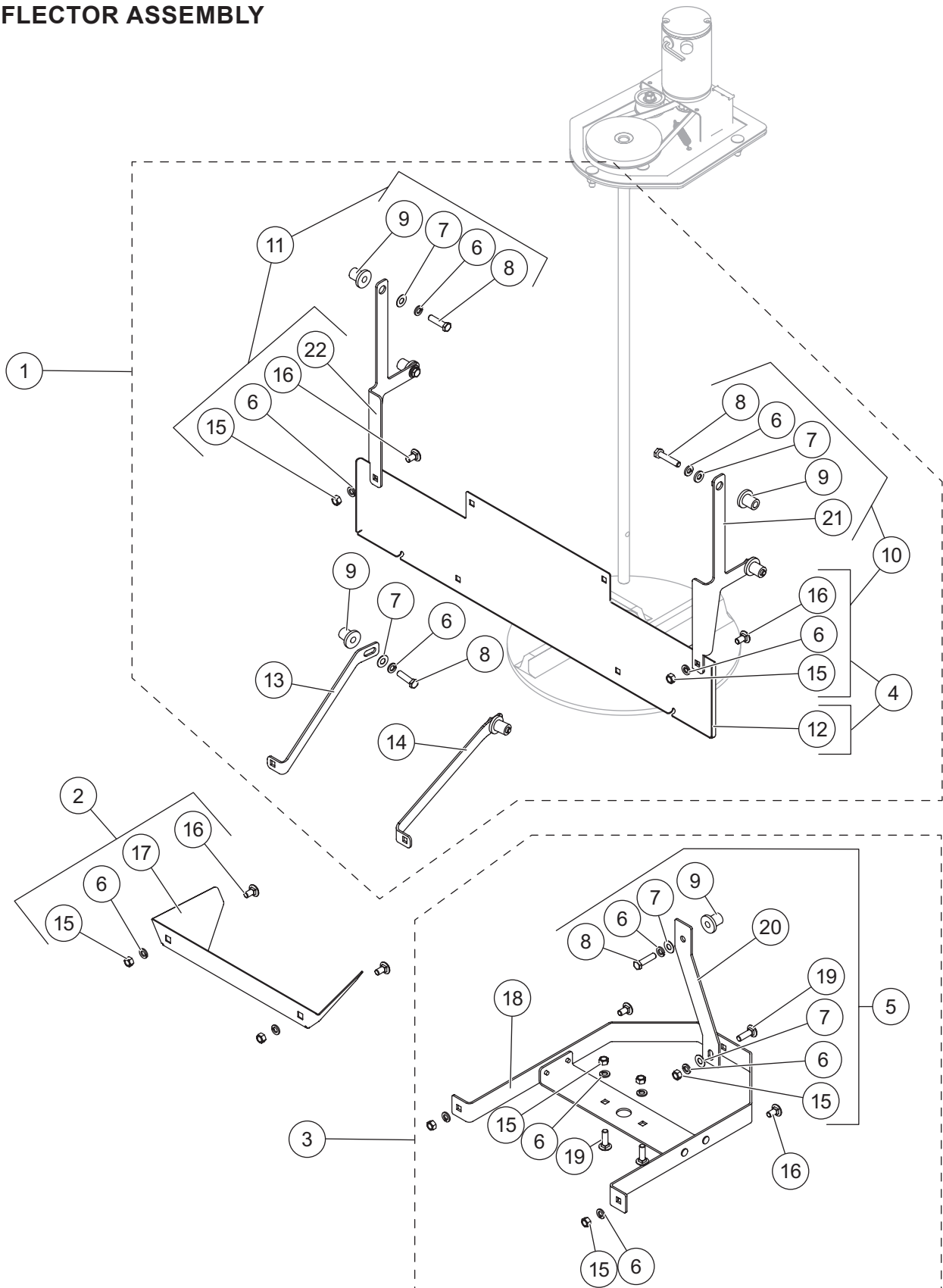


Tornado™ HOPPER SPREADER

89770 Chute Assembly							
Item	Part	Qty	Description	Item	Part	Qty	Description
1	94424	1	Spinner, Poly Two-Stage	10	71236	1	Motor Mount Kit
2	96167	2	2-Bolt Flanged Bearing, 0.750 ID	11	78268	2	3/8 Well Nut Fastener Kit
3	76796	1	Cogged Belt Pulley, 40-Tooth, 0.75 ID	12	78247	2	Chute Handle Kit
4	78285	1	Gear Belt, 3/8 Pitch	13	78298	1	Idler Kit
5	78300	1	Motor 12V DC 1/3 hp (incl. item 6)	14		1	5/16-18 x 2-1/4 Hex Cap Screw SS
6	76795	1	Cogged Belt Pulley, 10-Tooth, 0.5 ID	15		2	5/16 Flat Washer Type A Narrow
7	78283	1	Shaft, 0.75	16		1	5/16-18 Hex Locknut GB SS
8	30372	1	Chute Cover	17		2	3/8-16 x 3/4 Carriage Bolt
9	78031	1	Chute Attachment Pin Bag (pkg of 2)				
Item 10				71236 Motor Mount Kit			
15		1	5/16 Flat Washer Type A Narrow	22		3	3/8 Flat Washer Type A Wide SS
16		1	5/16-18 Hex Locknut GB SS	23		3	3/8-16 Hex Locknut Brass
17		2	3/8-16 x 3/4 Carriage Bolt	24		2	#10-32 Hex Locknut GB SS
18		1	Motor Mount	25		2	#10 Flat Washer Type A SS
19	76059	1	Bundling Clip	26	30377	1	Bolt Plate (incl. items 21 and 22)
20		2	3/8-16 Hex Nut SS	ns		2	Cable Tie
21		2	3/8 Spring Lock Washer SS				
Item 11				78268 3/8 Well Nut Fastener Kit			
21		2	3/8 Lock Washer SS	27		2	3/8-16 x 1-1/2 Hex Cap Screw SS
22		2	3/8 Flat Washer Type A Wide SS	28	78267	1	3/8-16 Well Nut (pkg of 2)
Item 12				78247 Chute Handle Kit			
29	78270	1	1/4 Well Nut Fastener Kit	30		1	Handle
Item 13				78298 Idler Kit			
15		1	5/16 Flat Washer Type A Narrow	27		1	3/8-16 x 1-1/2 Hex Cap Screw SS
16		1	5/16-18 Hex Locknut GB SS	31	65509	1	2" Idler Pulley
20		2	3/8-16 Hex Nut SS	32		1	3/8 x 3/8 x 5/16-18 Shoulder Bolt
21		1	3/8 Spring Lock Washer SS	33		1	Idler Arm
22		2	3/8 Flat Washer Type A Wide SS	34		1	Spring
Item 29				78270 1/4 Well Nut Fastener Kit			
35		2	1/4-20 x 1-1/2 Hex Cap Screw SS	37	78269	1	1/4-20 Well Nut (pkg of 2)
36		2	1/4 Flat Washer Type A Narrow SS				
ns = not shown				G = Grade		SS = Stainless Steel	

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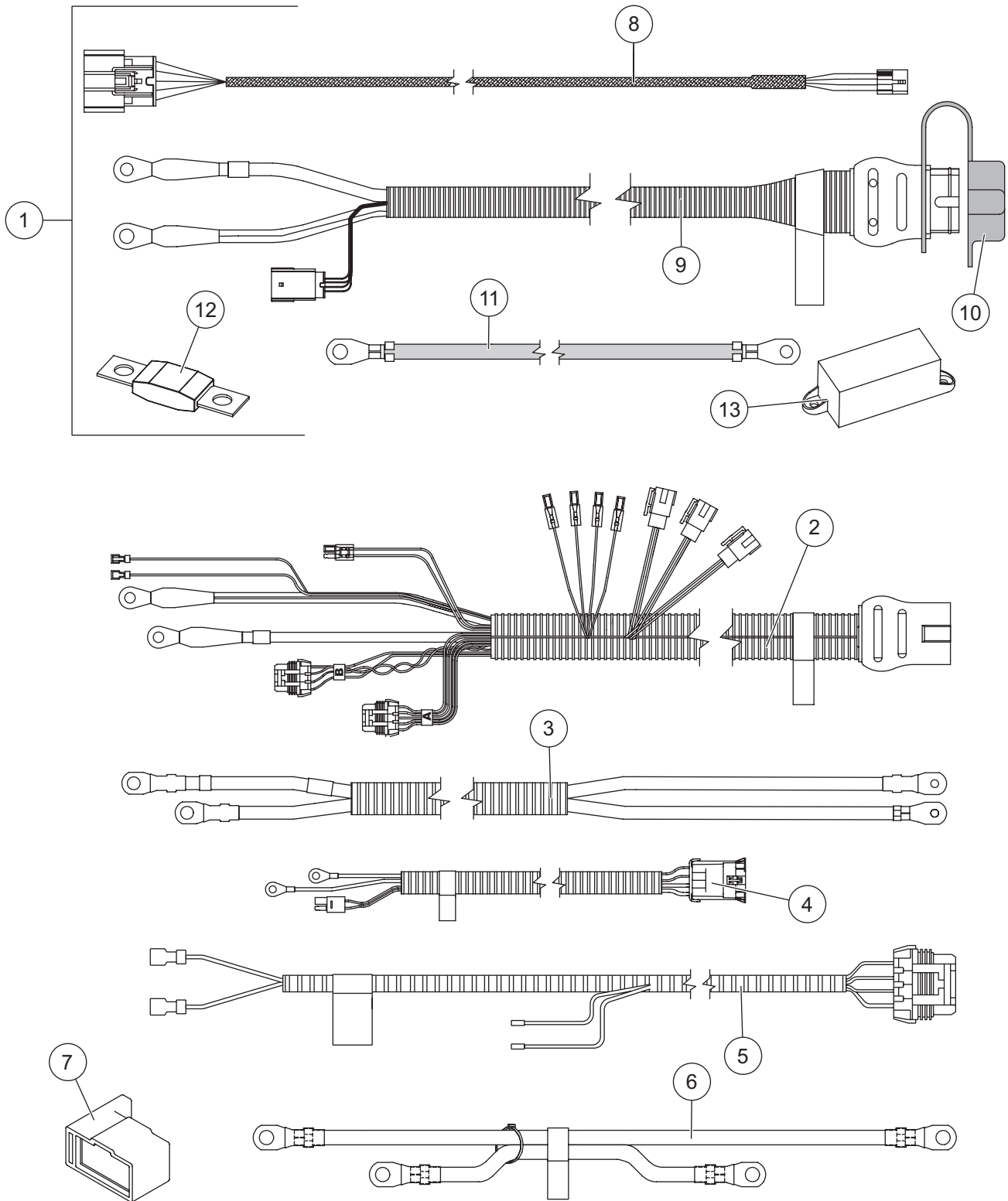
DEFLECTOR ASSEMBLY



Deflector Assembly							
Item	Part	Qty	Description	Item	Part	Qty	Description
1	77538	1	Chute Strut Kit	4	30376	1	Rear Deflector Kit
2	77539	1	Flow Guide Kit	5	30375	1	Front Deflector Support Kit
3	77543	1	Spinner Bump Guard Kit				
Item 1 77538 Chute Strut Kit							
6		12	3/8 Spring Lock Washer SS	11		1	Deflector Support Kit – PS
7		6	3/8 Flat Washer Type A Wide SS	12		1	Rear Deflector, Short
8		6	3/8-16 x 1-1/2 Hex Cap Screw SS	13	78302	1	Brace – PS
9		6	3/8-16 Well Nut	14	78301	1	Brace – DS
10		1	Deflector Support Kit – DS				
Item 2 77539 Flow Guide Kit							
6		2	3/8 Spring Lock Washer SS	16		2	3/8-16 x 3/4 Carriage Bolt
15		2	3/8-16 Hex Nut SS	17		1	Material Flow Guide
Item 3 77543 Spinner Bump Guard Kit							
5		1	Front Deflector Support Kit	16		2	3/8-16 x 3/4 Carriage Bolt
6		4	3/8 Spring Lock Washer SS	18		1	Hoop Assembly
15		4	3/8-16 Hex Nut SS	19		2	3/8-16 x 1-1/4 Carriage Bolt
Item 4 30376 Rear Deflector Kit							
6		6	3/8 Spring Lock Washer SS	15		6	3/8-16 Hex Nut SS
12		1	Rear Deflector, Short	16		6	3/8-16 x 3/4 Carriage Bolt
Item 5 30375 Front Deflector Support Kit							
6		2	3/8 Spring Lock Washer SS	15		1	3/8-16 Hex Nut SS
7		2	3/8 Flat Washer Type A Wide SS	19		1	3/8-16 x 1-1/4 Carriage Bolt
8		1	3/8-16 x 1-1/2 Hex Cap Screw SS	20		1	Front Deflector Support
9		1	3/8-16 Well Nut				
Item 10 30374 Deflector Support Kit – DS							
6		2	3/8 Spring Lock Washer SS	15		1	3/8-16 Hex Nut SS
7		1	3/8 Flat Washer Type A Wide SS	16		1	3/8-16 x 3/4 Carriage Bolt
8		1	3/8-16 x 1-1/2 Hex Cap Screw SS	21		1	Deflector Support – DS
9		1	3/8-16 Well Nut				
Item 11 30373 Deflector Support Kit – PS							
6		2	3/8 Spring Lock Washer SS	15		1	3/8-16 Hex Nut SS
7		1	3/8 Flat Washer Type A Wide SS	16		1	3/8-16 x 3/4 Carriage Bolt
8		1	3/8-16 x 1-1/2 Hex Cap Screw SS	22		1	Deflector Support – PS
9		1	3/8-16 Well Nut				
SS = Stainless Steel				G = Grade			

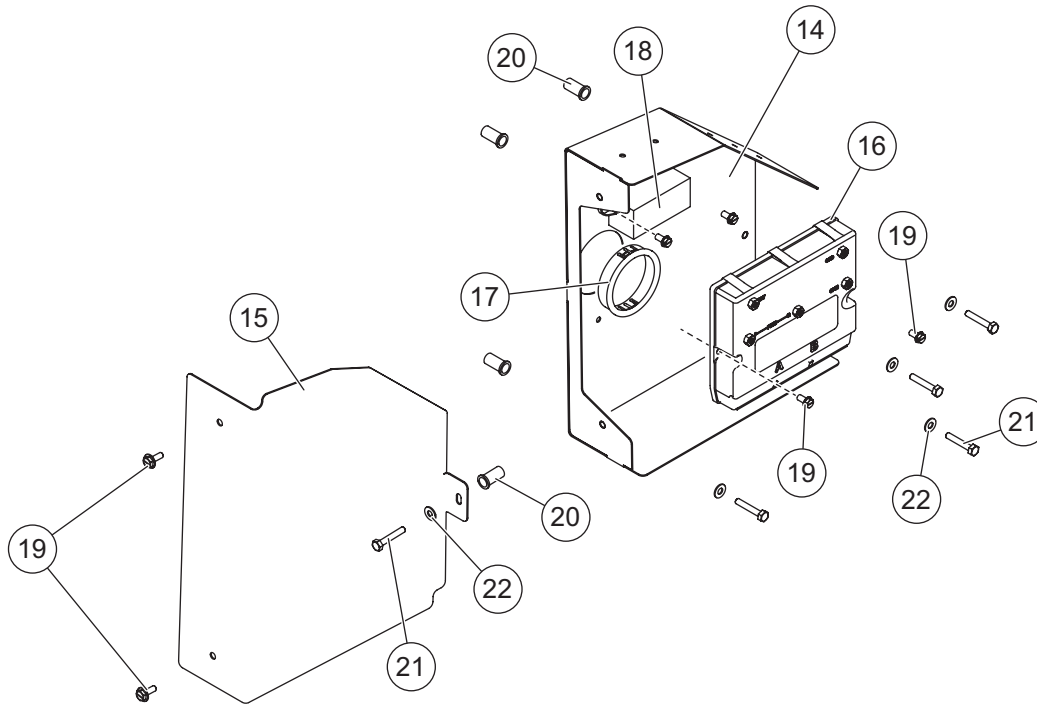
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CABLES & HARNESSING COMPONENTS



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ELECTRICAL ENCLOSURE COMPONENTS

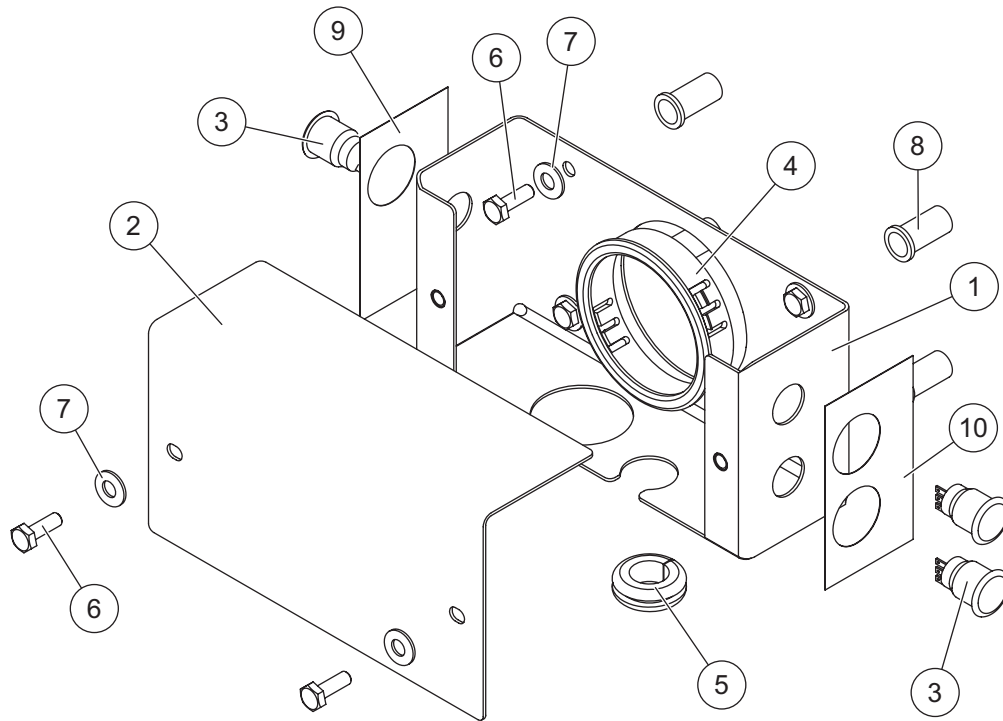


Cables & Harnessing / Electrical Enclosure Assembly							
Item	Part	Qty	Description	Item	Part	Qty	Description
1	78402	1	Vehicle-Side Harness Kit	4	78415	1	Spinner Motor Cable Assy, Hopper
2	78417	1	Hopper Harness Assembly	5	78412	1	Spinner Motor Cable Assembly, Chute
3	78418	1	Harness Assembly, Module to Conveyor Motor	6	78394	1	Cable Assembly, Mod. to Isolated Stud
				7	69916	1	8-Pin Cable Boot
Item 1 78402 Vehicle-Side Harness Kit							
8	69902	1	Vehicle Control Harness	12	95836	1	Fuse, 100A
9	76057	1	Vehicle Harness*	13	95837	1	Fuse Holder
10	99759	1	Plug Cover	ns		6	Cable Tie, HD
11	22511	1	22" Battery Cable – Red	ns		10	Cable Tie, 15.35"
Electrical Enclosure Assembly							
14	95073	1	Electrical Enclosure Body	19		6	1/4-20 x 1/2 Hex Washer-Head Machine Screw SS
15	99745	1	Electrical Enclosure Cover	20	78263	5	Well Nut
16	52385	1	4-Post Spreader Module	21		5	1/4-20 x 1-1/2 Hex Cap Screw SS
17	78434	1	Snap-In Grommet	22		5	1/4 Flat Washer SS
18	95837	1	Isolated Stud Block				
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* Includes plug cover (item 10).

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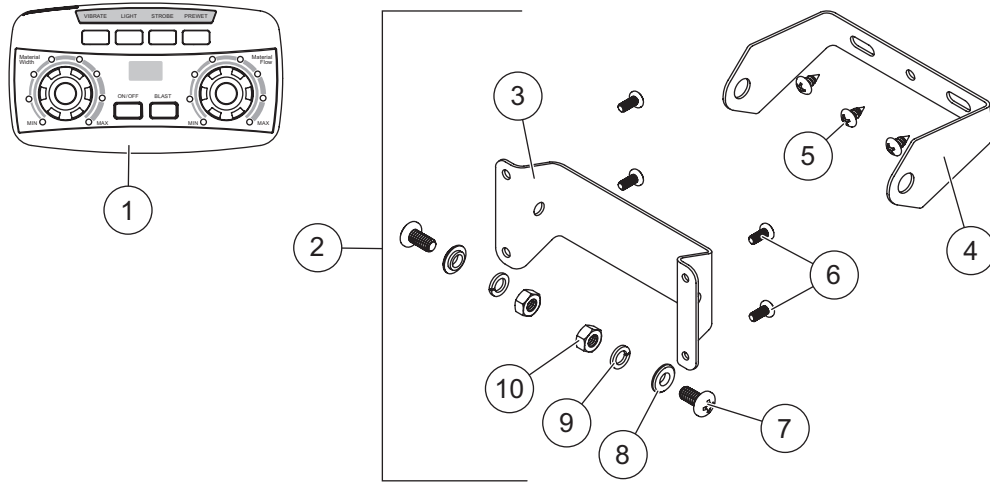
EXTERNAL ENCLOSURE



Switch Box Enclosure Assembly							
Item	Part	Qty	Description	Item	Part	Qty	Description
1	99746	1	External Enclosure, Body	7	6	1/4 Flat Washer SS	
2	99747	1	External Enclosure, Cover	8	78263	4	Well Nut
3	99254	3	Push Button Switch	ns	95077	1	Dump Switch Label Kit (incl. items 9 & 10)
4	78434	1	Snap-In Grommet	9		1	Label – Information, One-Button
5	99195	2	Break-Thru Plug	10		1	Label – Information, Two-Button
6		6	1/4-20 x 3/4 Hex Cap Screw SS				
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CAB CONTROL



99534 Cab Control Kit							
Item	Part	Qty	Description	Item	Part	Qty	Description
1	99774	1	Cab Control 2-Knob	2	52345	1	Cab Control Bracket Kit
Item 2				52345 Cab Control Bracket Kit			
3		1	Control Bracket, Inner	7		2	1/4-20 x 1/2 Pan Head Machine Screw SS – Black Oxide
4		1	Control Bracket, Outer	8		2	1/4 Shoulder Washer – Black Oxide
5		3	#10 x 3/8 Tapping Screw SS	9		2	1/4 Lock Washer SS
6		4	#8-32 x 3/8 Phillips Pan Head Machine Screw	10		2	1/4-20 Hex Nut G5 – Black Oxide
G = Grade				SS = Stainless Steel			

ACCESSORIES & PRE-WET KITS

Accessories			
Part	Description	Part	Description
78197	License Plate Light Kit	76668-1	Vibrator Kit
99505-2	Primary Work Light Kit	78120	Inverted V Kit, 8' Model
99732-1	Secondary Work Light Kit	78150	Inverted V Kit, 7' Model
99766	Strobe Light Kit	68790	Ratchet Tie-Down Kit
Pre-Wet Kits			
76400	Standard Pump Kit, ON-OFF System	76425	50-Gallon Tank Kit (2 x 25 gal)
76420	Deluxe Pump Kit, Full-Feature System		

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