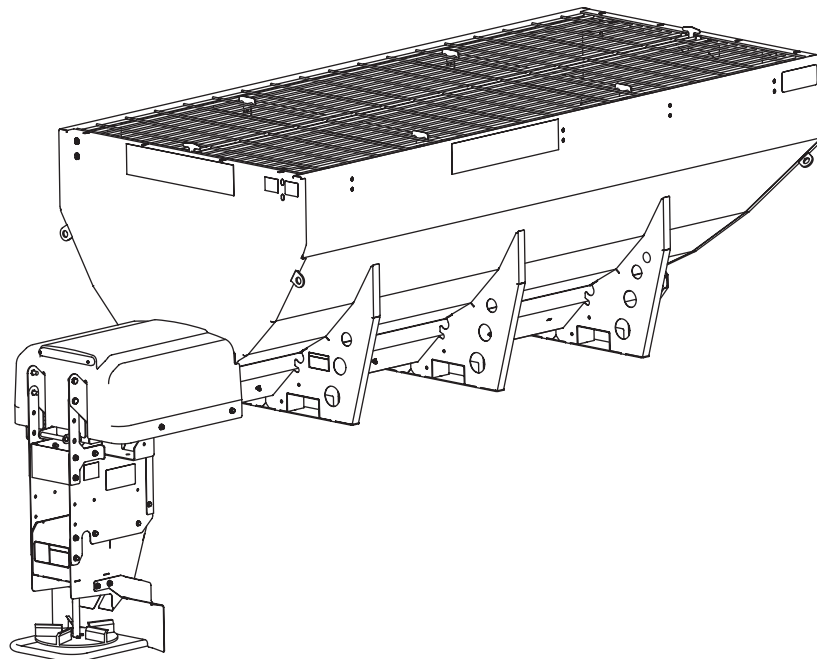




HELIXX™ Stainless Steel Hopper Spreader

1.5, 2.0, 3.0, 4.5, & 6.0 yd³

Parts List

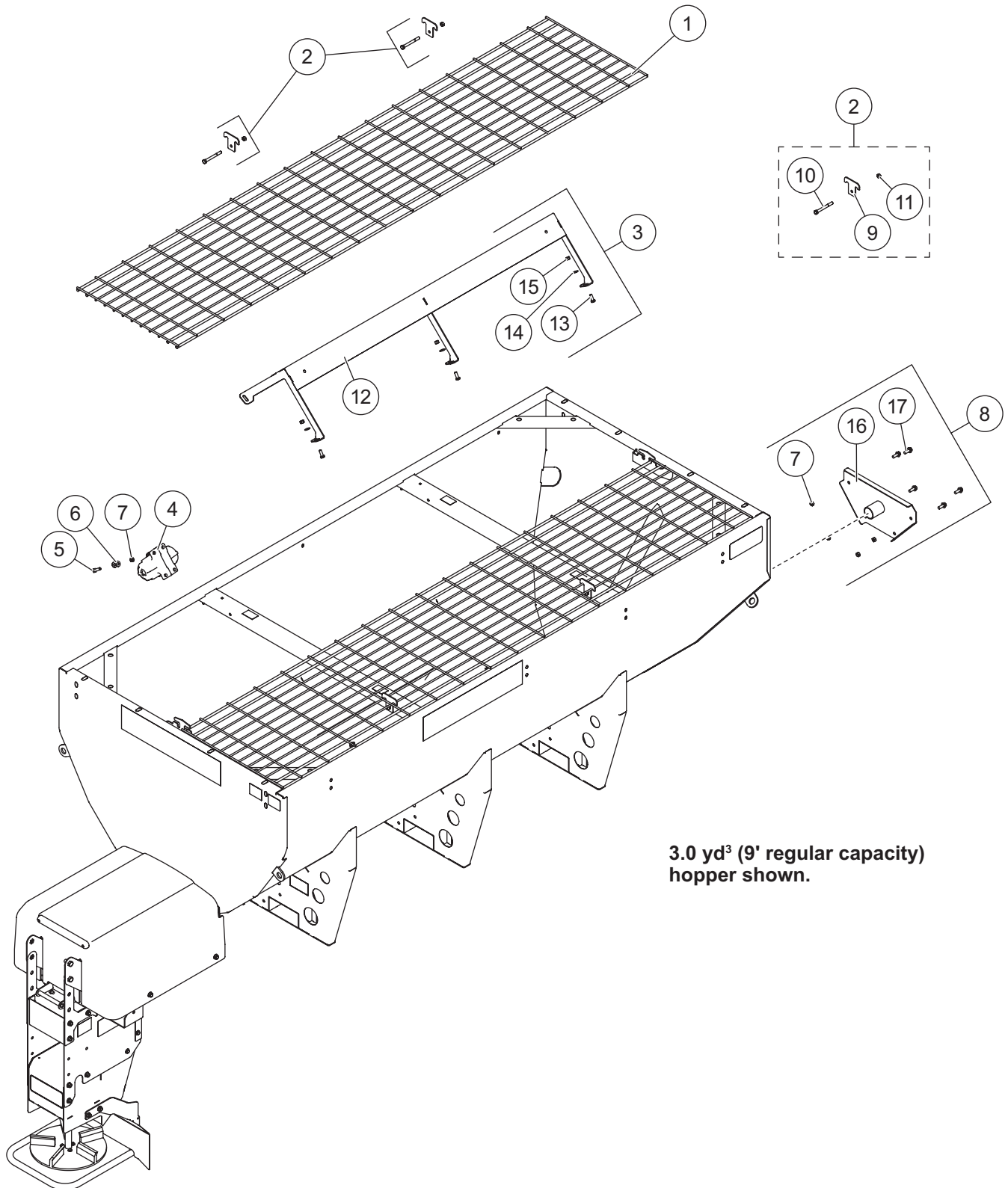


**NOTE: The side extension kit cannot be installed
with the hopper lid kit.**

This Parts List is for SnowEx® HELIXX stainless steel hopper spreaders
with serial numbers beginning with 191001 and higher.

HELIXX™ STAINLESS STEEL HOPPER SPREADERS

HOPPER ASSEMBLY

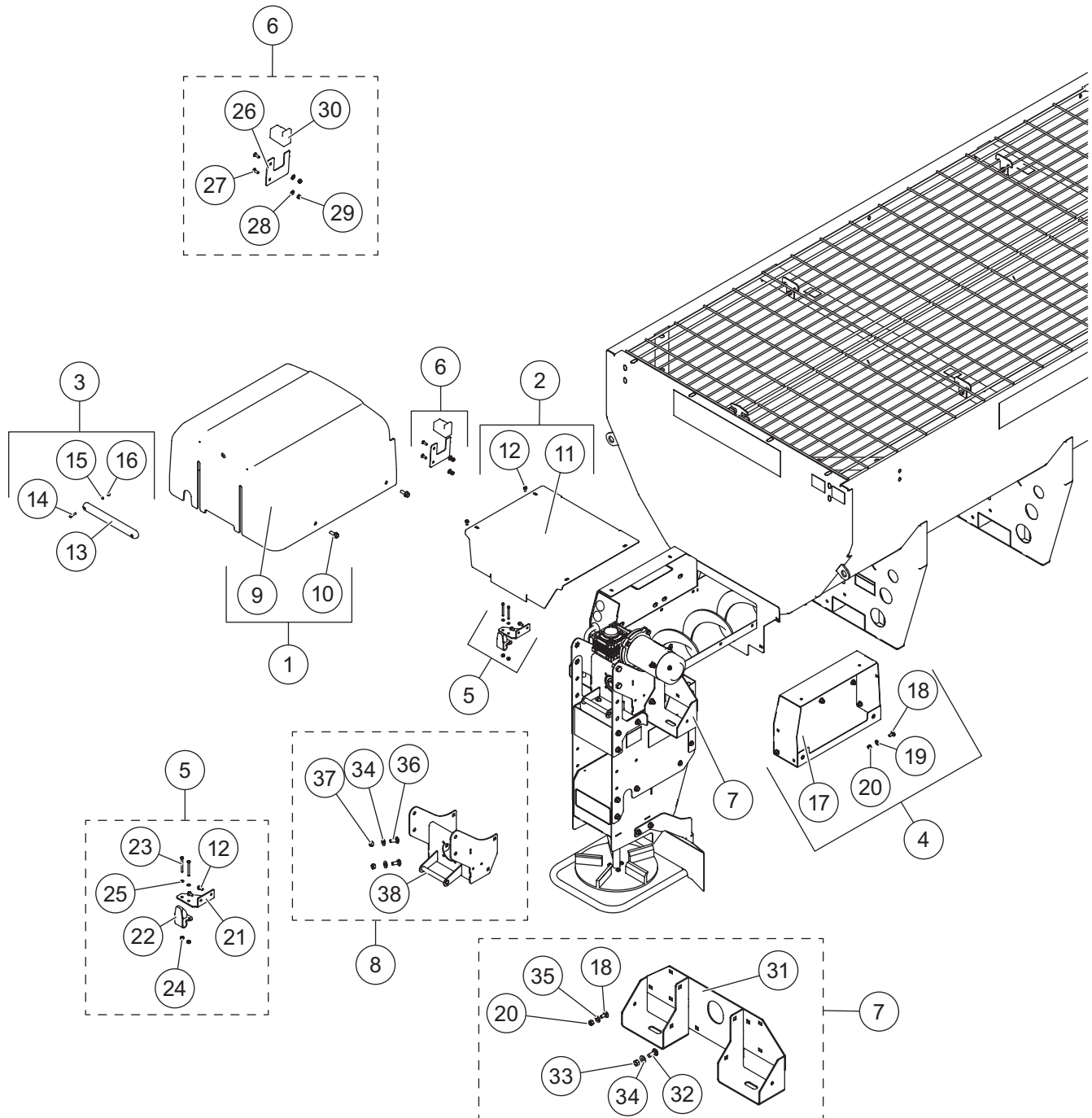


HELIXX™ STAINLESS STEEL HOPPER SPREADERS

Hopper Assembly Components							
Item	Part	Qty	Description	Item	Part	Qty	Description
1	99515	2	Top Screen – 1.5 yd ³ (7') Hopper	ns	85468	1	Inverted V Kit – 7' & 8' Hoppers
	99516	2	Top Screen – 2.0 yd ³ (8') Hopper	4	75673	1	Vibrator Kit
	99517	2	Top Screen – 3.0 yd ³ (9' RC) Hopper	5		4	3/8-16 x 1-1/2 Hex Cap Screw SS
	99518	2	Top Screen – 4.5 yd ³ (9' HC) Hopper	6		8	3/8 Flat Washer SS
	99519	2	Top Screen – 6.0 yd ³ (10') Hopper	7		4	3/8-16 Hex Locknut GB SS
2	85470	1	Screen Attachment Kit (set of 4)	8	85471	1	Cab-Side Trough Cap Kit
3	85469	1	Inverted V Kit – 9' & 10' Hoppers				
Item 2 85470 Screen Attachment Kit (set of 4)							
9		4	Screen Bracket Clamp	11		4	3/8-16 Hex Locknut GB SS
10		4	3/8-16 x 3-1/2 Hex Cap Screw SS				
Item 3 85469 Inverted V Kit (9' & 10' hoppers)							
12		1	Inverted V, Long	14		6	3/8 Spring Lock Washer SS
13		6	3/8-16 x 1 Carriage Bolt	15		6	3/8-16 Hex Nut SS
85468 Inverted V Kit (7' & 8' hoppers)							
ns		1	Inverted V, Short	14		4	3/8 Spring Lock Washer SS
13		4	3/8-16 x 1 Carriage Bolt	15		4	3/8-16 Hex Nut SS
Item 8 85471 Cab-Side Trough Cap Kit							
7		4	3/8-16 Hex Locknut GB SS	17		4	3/8-16 x 1 Serrated Flange Hex Cap Screw SS
16		1	Front Trough Cap				
ns = not shown RC = Regular Capacity HC = High Capacity SS = Stainless Steel G = Grade							

HELIXX™ STAINLESS STEEL HOPPER SPREADERS

COVER ASSEMBLIES

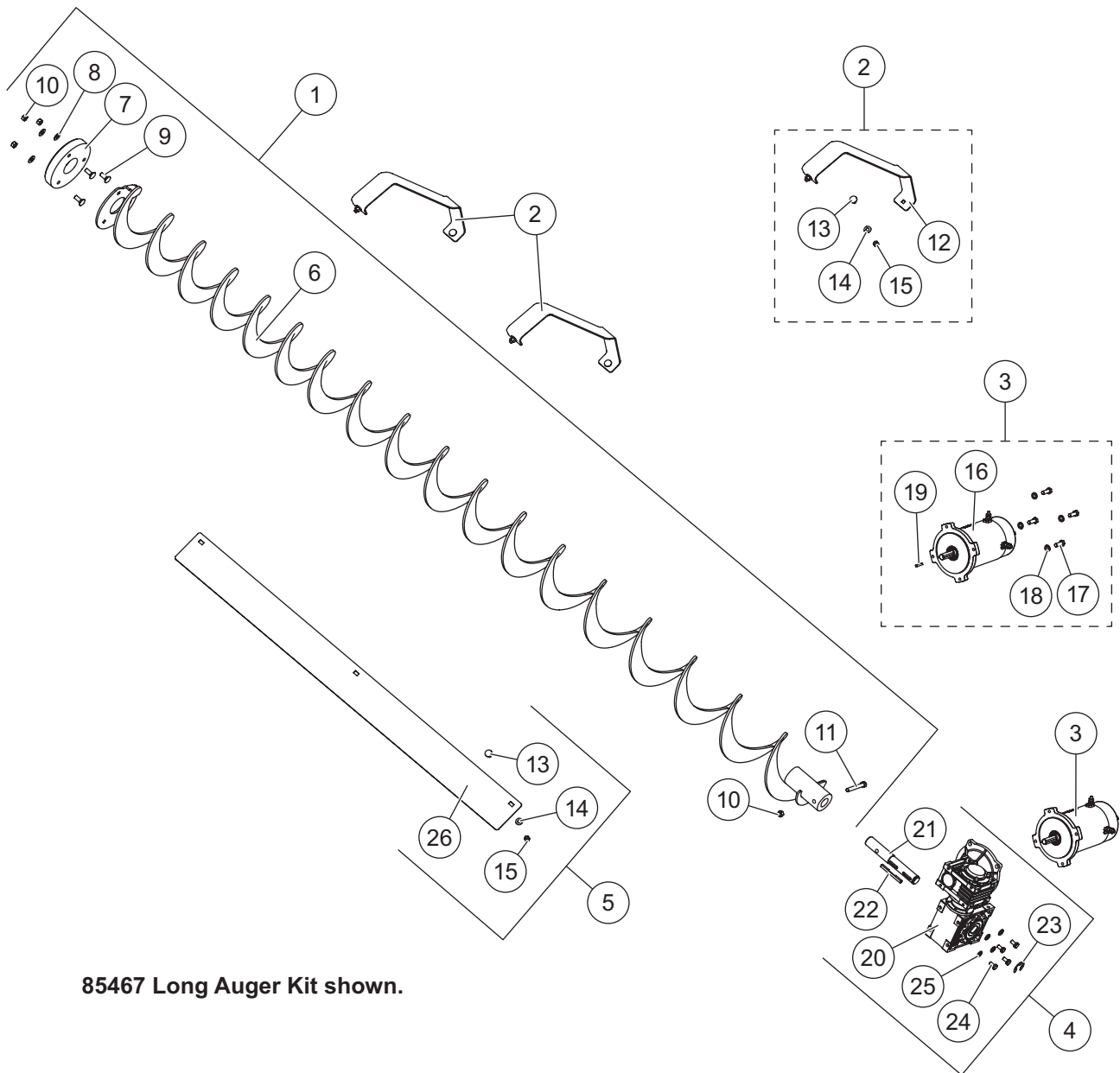


HELIXX™ STAINLESS STEEL HOPPER SPREADERS

Cover Assemblies							
Item	Part	Qty	Description	Item	Part	Qty	Description
1	85475	1	Auger Extension Cover Service Kit	ns	D6335	2	Label – Warning, Rotating Auger
2	85474	1	Trough Extension Cover Service Kit	ns	30916EN	1	Label – Warning, Rotating Parts
3	85449	1	CHMSL Kit	ns	30917EN	1	Label – Warning, No Step
4	85473	1	Saddle Bag Service Kit	ns	30918EN	1	Label – Warning, GVWR
5	85476	1	Spinner Module Dust Cover Service Kit	ns	11100	1	Label – Warning, Rear Camera
6	85478	1	Harness Boot Service Kit	ns	32593EN	2	Label – Warning, Multiple Pinch Points
7	85464	1	Rear Fork Pocket Service Kit	ns	67272	1	Label – Caution, Do Not Lift
8	85433	1	Rear Attachment Service Kit	ns	92969	1	Label – Warning, Chute Disconnect
ns	D6192	1	Label – Warning, Hands & Feet	ns	92971	1	Label – Warning, Disconnect Spinner
ns	D6194	1	Label – Warning, Read Owner's Manual				
Item 1 85475 Auger Extension Cover Service Kit							
9		1	Auger Extension Cover	10		4	3/8-16 x 1 Serrated Flange Hex Cap Screw SS
Item 2 85474 Trough Extension Cover Service Kit							
11		1	Trough Extension Cover	12		4	1/4-20 x 1/2 Hex Washer-Head Machine Screw SS
Item 3 85449 CHMSL Kit							
13		1	CHMSL, 8" Lead	15		2	#10 Flat Washer SS
14		2	#10-32 x 1 Phillips Pan Head Screw SS	16		2	#10-32 Hex Locknut GB SS
Item 4 85473 Saddle Bag Service Kit							
17		1	Saddle Bag Enclosure	20		8	5/16-18 Hex Locknut GB
18		8	5/16-18 x 3/4 Carriage Bolt SS	ns		8	3/8-16 Hex Rivnut SS
19		8	5/16 Flat Washer SS, Type A Narrow				
Item 5 85476 Spinner Module Dust Cover Service Kit							
12		2	1/4-20 x 1/2 Hex Washer-Head Machine Screw SS	23		2	#10-32 x 2 Hex Cap Screw MS
21		1	Chute Harness Bracket	24		2	#10-32 Hex Locknut GB SS
22	11991	1	Dust Cover, Spinner Plug	25		2	#10 Flat Washer, Type A SS
Item 6 85478 Harness Boot Service Kit							
26		1	Harness Boot Holder	29		2	1/4-20 Hex Locknut GB
27		2	1/4-20 x 3/4 Carriage Bolt	30		1	8-Pin Cable Boot
28		2	1/4 Flat Washer, Type A Narrow				
Item 7 85464 Rear Fork Pocket Service Kit							
18		6	5/16-18 x 3/4 Carriage Bolt SS	33		8	3/8-16 Hex Locknut GB
20		6	5/16-18 Hex Locknut GB	34		8	3/8 Flat Washer SS
31		1	Rear Attachment	35		6	5/16 Flat Washer SS
32		8	3/8-16 x 1 Carriage Bolt				
Item 8 85433 Rear Attachment Service Kit							
34		8	3/8 Flat Washer SS	37		4	3/8-16 Locknut SS
36		4	3/8-16 x 1 Carriage Bolt SS	38		1	Chute/Trans Mount
ns = not shown				SS = Stainless Steel		MS = Mild Steel	
						G = Grade	

HELIXX™ STAINLESS STEEL HOPPER SPREADERS

DRIVETRAIN ASSEMBLY



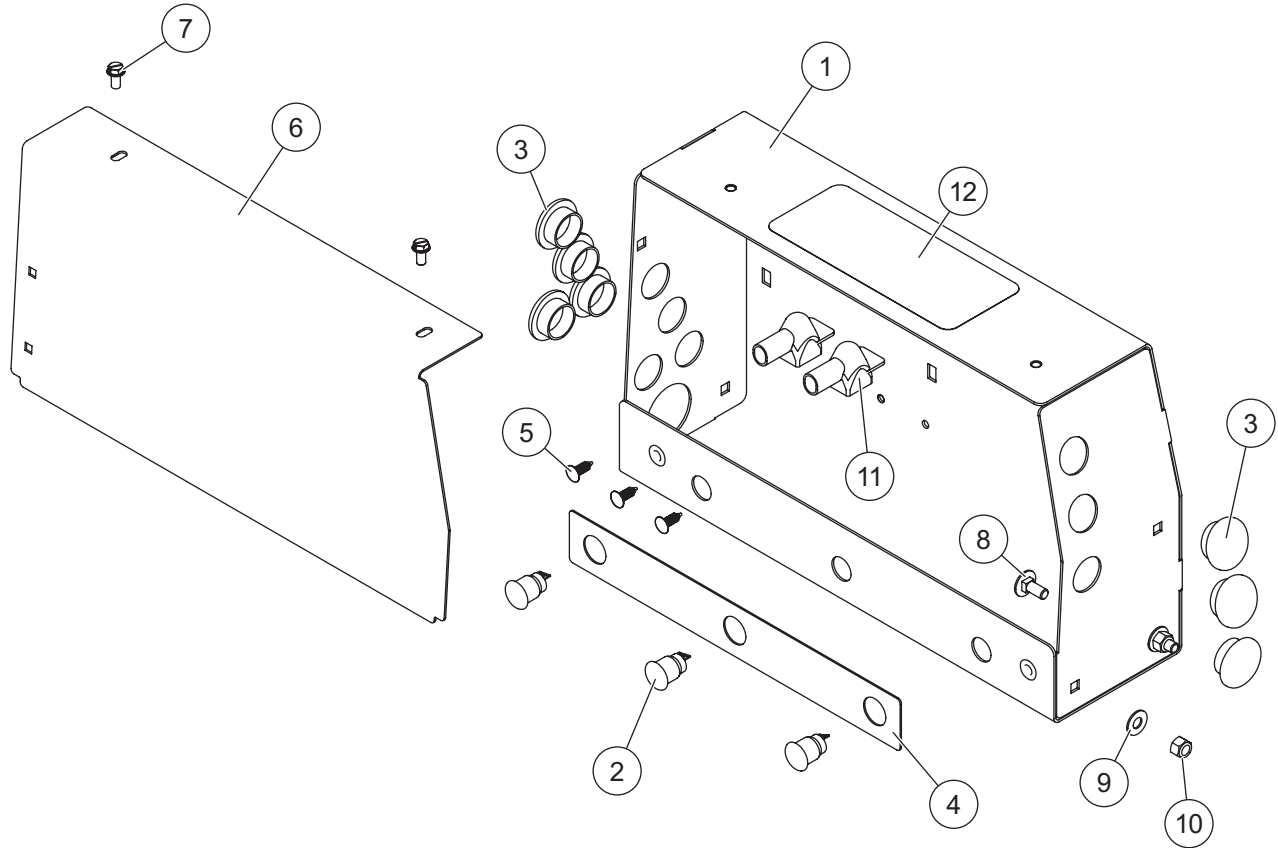
HELIXX™ STAINLESS STEEL HOPPER SPREADERS

Drivetrain Assembly Components							
Item	Part	Qty	Description	Item	Part	Qty	Description
1	85467	1	Auger Kit, Long – 9' & 10' Hoppers	4	85431	1	Transmission Kit
ns	85466	1	Auger Kit, Short – 7' & 8' Hoppers	5	85477	1	Wear Plate, Long – 9' & 10' Hoppers
2	85422	1*	Auger Keeper Kit	ns	85442	1	Wear Plate, Short – 7' & 8' Hoppers
3	85432	1	Motor Kit 3/4 hp – 9' & 10' Hoppers				
ns	85479	1	Motor Kit 1/2 hp – 7' & 8' Hoppers				
Item 1 85467 Auger Kit, Long – 9' & 10' Hoppers							
6		1	Auger, 107", 6" OD	9		3	3/8-16 x 1 Carriage Bolt
7	11888	1	Front Auger Bearing	10		4	3/8-16 Hex Locknut GB SS
8		3	3/8 Flat Washer SS	11		1	3/8-16 x 2-3/4 Hex Cap Screw
85466 Auger Kit, Short – 7' & 8' Hoppers							
ns		1	Auger, 92", 6" OD	9		3	3/8-16 x 1 Carriage Bolt
7	11888	1	Front Auger Bearing	10		4	3/8-16 Hex Locknut GB SS
8		3	3/8 Flat Washer SS	11		1	3/8-16 x 2-3/4 Hex Cap Screw
Item 2 85422 Auger Keeper Kit							
12		1	Auger Keeper	14		2	5/16 Flat Washer SS
13		2	5/16-18 x 3/4 Carriage Bolt	15		2	5/16-18 Hex Locknut GB SS
Item 3 85432 Motor Kit 3/4 hp – 9' & 10' Hoppers							
16		1	3/4 hp Motor 1750 rpm	18		4	3/8 Spring Lock Washer SS
17		4	3/8-16 x 1 Hex Cap Screw SS	19		1	Machine Key, 3/16 x 1
85479 Motor Kit 1/2 hp – 7' & 8' Hoppers							
ns		1	1/2 hp Motor 1750 rpm	18		4	3/8 Spring Lock Washer SS
17		4	3/8-16 x 1 Hex Cap Screw SS	19		1	Machine Key, 3/16 x 1
Item 4 85431 Transmission Kit							
20		1	10 x 10 2X Worm Gear Drive	23		1	1" Retaining Ring
21	11892	1	Auger Drive Shaft	24		4	M8-1.25 x 16 Hex Cap Screw SS
22	99572	1	Machine Key, 1/4 x 3	25		4	M8 Spring Lock Washer SS
Item 5 85477 Wear Plate, Long – 9' & 10' Hoppers							
13		4	5/16-18 x 3/4 Carriage Bolt	15		4	5/16-18 Hex Locknut GB SS
14		4	5/16 Flat Washer SS	26		1	Auger Wear Plate, Long
85442 Wear Plate, Short – 7' & 8' Hoppers							
13		3	5/16-18 x 3/4 Carriage Bolt	15		3	5/16-18 Hex Locknut GB SS
14		3	5/16 Flat Washer SS	ns		1	Auger Wear Plate, Short
ns = not shown				G = Grade			
				SS = Stainless Steel			
				M = Metric			

* The short auger kit (PN 85466) requires one auger keeper; long auger kit (PN 85467) requires two auger keepers.

HELIXX™ STAINLESS STEEL HOPPER SPREADERS

ELECTRICAL BOX ASSEMBLY

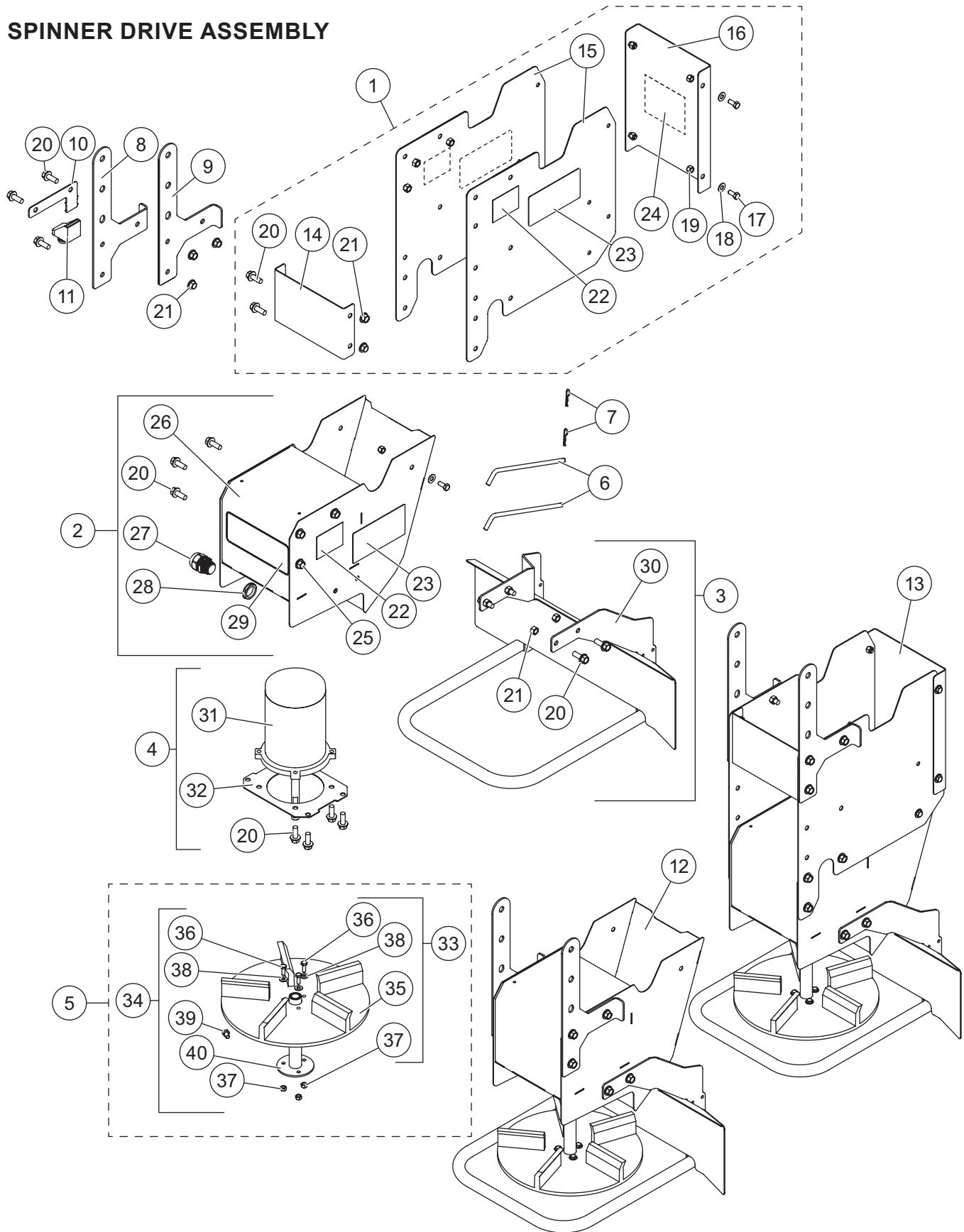


HELIXX™ STAINLESS STEEL HOPPER SPREADERS

85472 Electrical Box Assembly							
Item	Part	Qty	Description	Item	Part	Qty	Description
1		1	Electrical Enclosure	7		2	1/4-20 x 1/2 Hex Washer-Head Machine Screw
ns		2	3/8-16 Hex Rivnut SS				
2	99254	3	Switch, Push Button MO	8		8	5/16-18 x 3/4 Carriage Bolt SS
3		7	Break-Thru Plug	9		8	5/16 Flat Washer SS
4	77420	1	Label – Information, Material Feed/ Work Light Control	10		8	5/16-18 Hex Locknut GB SS
5		3	1/4 x 3/4 x 1/2 Push Retainer	11		2	Motor Terminal Cover
6		1	Electrical Box Cover	12	D6335	1	Label – Warning, Rotating Auger
G = Grade				ns = not shown		SS = Stainless Steel	

HELIXX™ STAINLESS STEEL HOPPER SPREADERS

SPINNER DRIVE ASSEMBLY



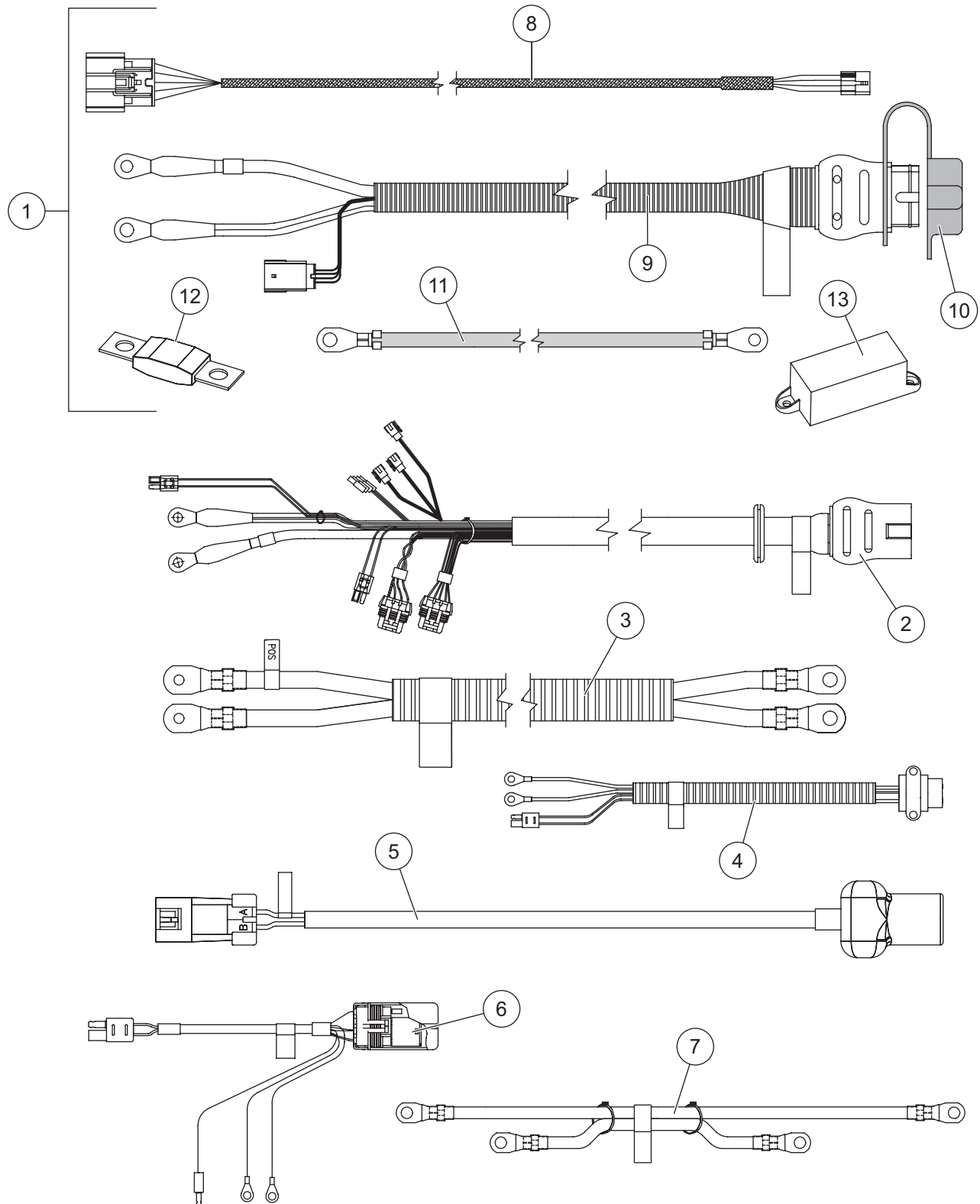
HELIXX™ STAINLESS STEEL HOPPER SPREADERS

Spinner Drive Assembly Components							
Item	Part	Qty	Description	Item	Part	Qty	Description
1	80221*	1	Chute Extension Kit	8	11871	1	Chute Hanger – DS
2	85434	1	Spinner Drive Housing	9	11872	1	Chute Hanger – PS
3	85437	1	Spinner Guard Service Kit	10	90774	1	Cable Boot Bracket
4	85436	1	Spinner Motor Service Kit	11	11992	1	Spinner Harness Dust Cover
5	80222	1	Spinner Disk Kit	12	77570	1	Spinner Drive Assembly Kit
6	11981	2	Chute Locking Pin	13	77571	1	Spinner Drive Extension Assembly Kit
7	D4135	2	0.093 x 2-3/8 Hair Pin Cotter, Zinc				
Item 1 80221* Chute Extension Kit							
14		1	Chute Extension Stiffener	20		6	3/8-16 x 1 Serrated Flange Hex Cap Screw SS
15		2	Chute Extension Side Plate	21		6	3/8-16 Locknut SS
16		1	Chute Extension Funnel	22	32593EN	2	Label – Warning, Multiple Pinch Points
17		6	5/16-18 x 3/4 Hex Cap Screw SS	23	11100	1	Label – Warning, Rear Camera
18		6	5/16 Flat Washer SS	24	92971	1	Label – Warning, Disconnect
19		6	5/16-18 Hex Locknut SS				
Item 2 85434 Spinner Drive Housing							
20		6	3/8-16 x 1 Serrated Flange Hex Cap Screw SS	26		1	Chute Motor Enclosure
22	32593EN	2	Label – Warning, Multiple Pinch Points	27		1	10/2 3/4 NPT Strain Relief
23	11100	1	Label – Warning, Rear Camera	28		1	3/4 Locknut, Nylon
25		6	3/8-16 Hex Rivnut SS	29	30917EN	1	Label – Warning, No Step
Item 3 85437 Spinner Guard Service Kit							
20		4	3/8-16 x 1 Serrated Flange Hex Cap Screw SS	21		4	3/8-16 Locknut SS
				30		1	Deflector
Item 4 85436 Spinner Motor Service Kit							
20		4	3/8-16 x 1 Serrated Flange Hex Cap Screw SS	31	D6887	1	Spinner Motor, Direct Drive
				32		1	Spinner Motor Plate
Item 5 80222 Spinner Disk Kit							
33	85438	1	Spinner Disk Service Kit	34	85439	1	Spinner Disk Mount Service Kit
Item 33 85438 Spinner Disk Service Kit							
35	D6823	1	12 x 5/8 Spinner	37		3	1/4-20 Locknut Zinc
36		3	1/4-20 x 1 Serrated Hex Washer-Head Cap Screw SS	38		3	1/4 Flat Washer SS
Item 34 85439 Spinner Disk Mount Service Kit							
36		3	1/4-20 x 1 Serrated Hex Washer-Head Cap Screw SS	38		3	1/4 Flat Washer SS
				39		1	5/16-18 x 1/2 Hex Cap Screw SS
37		3	1/4-20 Locknut Zinc	40	11874	1	Spinner Hub
ns = not shown				SS = Stainless Steel			

* Accessory only for 1.5 & 2.25 yd³ hopper spreaders.

HELIXX™ STAINLESS STEEL HOPPER SPREADERS

CONTROL & ELECTRICAL COMPONENTS

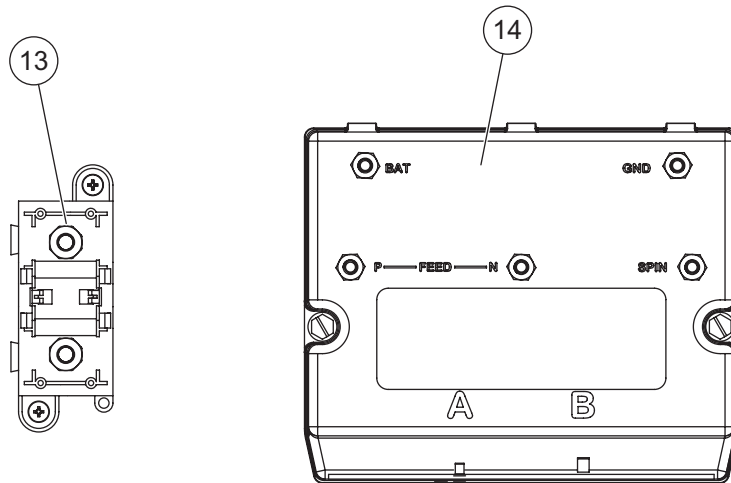


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HELIXX™ STAINLESS STEEL HOPPER SPREADERS

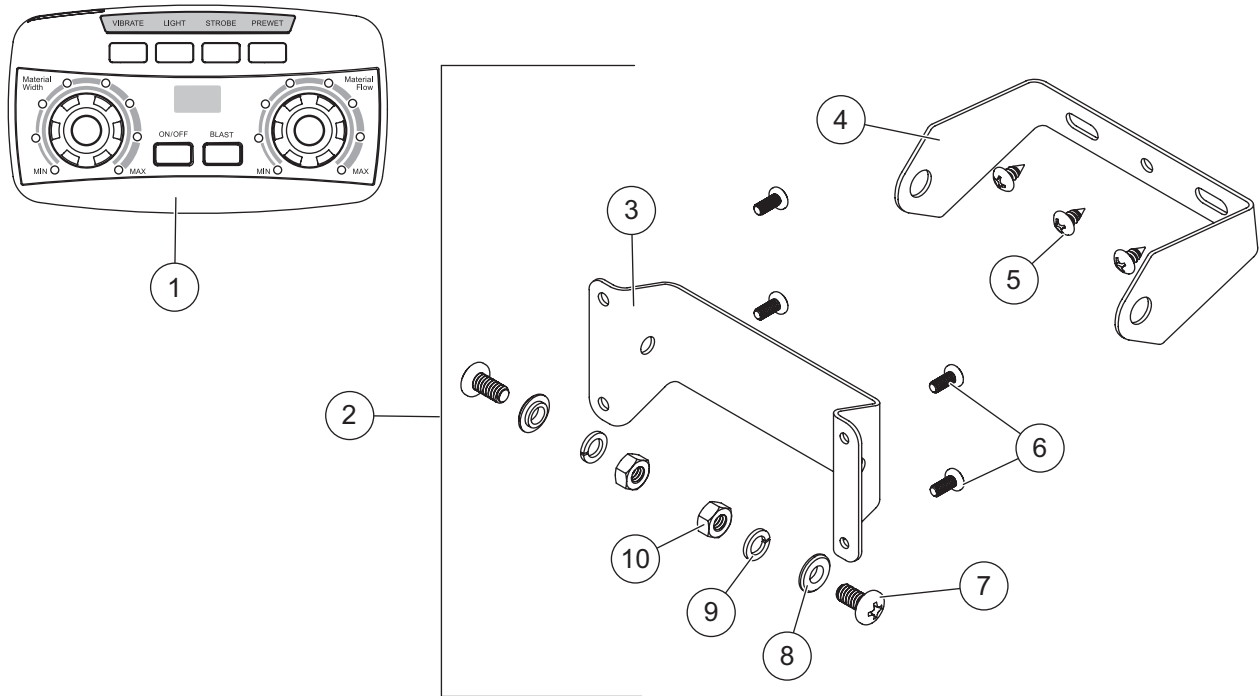
CONTROL & ELECTRICAL COMPONENTS

Cables & Harnessing / Electrical Enclosure Assembly							
Item	Part	Qty	Description	Item	Part	Qty	Description
1	83695	1	Vehicle-Side Harness Kit	ns	83712	1	Vibrator Extension Harness, 24"
2	83688	1	Hopper Cable Assembly	ns	78025-2	1	Stop Light Assembly, 60" Lead
3	78987	1	Module to Auger Motor Cable Assy	ns		1	#10-32 x 1 Phillips Pan Head Screw SS
4	85448	1	Spinner Module Cable Assembly	ns		1	#10-32 Locknut GB
5	85435	1	Spinner Motor Cable Assembly	ns		1	#10 Flat Washer Type A SS
6	78382	1	Vibrator Harness Assembly	ns	69916	1	8-Pin Cable Boot
7	78385	1	Module to Isolated Stud Cable Assy	ns	61592	1	Butt Splice
Item 1 83695 Vehicle-Side Harness Kit							
8	69902	1	Vehicle Control Harness	12	95836	1	Fuse, 100A
9	83690	1	Vehicle Harness Assy (incl. item 10)	13	95837	2	Fuse Holder/Isolated Stud Block
10	99759	1	Plug Cover	ns		6	Cable Tie, HD
11	22511	1	22" Battery Cable – Red	ns		10	Cable Tie, 15.35"
Electrical Box Components							
13	95837	1	Fuse Holder/Isolated Stud Block	14	52375	1	Spreader Module, 5-Post
ns = not shown				G = Grade		SS = Stainless Steel	



HELIXX™ STAINLESS STEEL HOPPER SPREADERS

CONTROL & ELECTRICAL COMPONENTS



52430 Cab Control Kit							
Item	Part	Qty	Description	Item	Part	Qty	Description
1	52432	1	Cab Control 2-Knob	2	52345	1	Cab Control Bracket Kit
Item 2				52345 Cab Control Bracket Kit			
3		1	Bracket, Control Inner	7		2	1/4-20 x 1/2 Pan Head Machine Screw SS – Black
4		1	Bracket, Control Outer	8		2	1/4 Shoulder Washer SS – Black
5		3	#10 x 3/8 Pan Head Tapping Screw SS	9		2	1/4 Spring Lock Washer SS
6		4	#8 x 3/8 Pan Head Machine Screw	10		2	1/4-20 Hex Nut G5 – Black
SS = Stainless Steel				G = Grade			

HELIXX™ STAINLESS STEEL HOPPER SPREADERS

ACCESSORIES

Part	Description	Part	Description
92178	License Plate Kit	92533	Truck Mount Kit, 3 Bars (9' & 10' hoppers)
85456	Work Light Kit	99690	Tie-Down Kit, SH Chain
85457	Auxiliary Work Light Kit	72750*	Steel Hopper Cover (7', 8', & 9' RC hoppers)
85458	Strobe Light Kit	72770*	Steel Hopper Cover (9' HC & 10' hoppers)
78402	Vehicle-Side Harness Kit	81120	50" Spill Guard
99488	Hopper-Side Extension Kit	81119	70" Spill Guard
92532	Truck Mount Kit, 2 Bars (7' & 8' hoppers)	85459	Vibrator Kit
68790	Ratchet Strap Kit (pkg of 4)		
HC = High Capacity		RC = Regular Capacity	

* This kit cannot be installed with the side extension kit.

Liquid Kits						
Part Description		Qty				
		1.5 yd³	2 yd³	3.0 yd³	4.5 yd³	6 yd³
74610	100 gal HELIXX Liquid Kit, 4 x 25-gal Tanks	1	1	—	—	—
74620	200 gal HELIXX Liquid Kit, 4 x 50-gal Tanks	—	—	1	1	1
74630	100 gal HELIXX Liquid Kit, 2 x 50-gal Tanks	—	—	1	1	1



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