

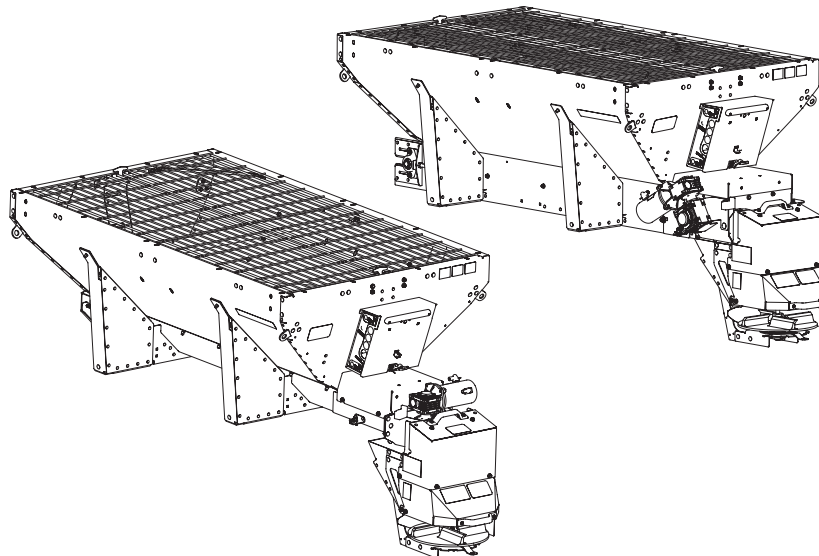


Renegade™ Stainless Steel Hopper Spreader

#S150A, S220A, S300A, S400A, S500A

S150C, S220C, S300C, S400C, S500C

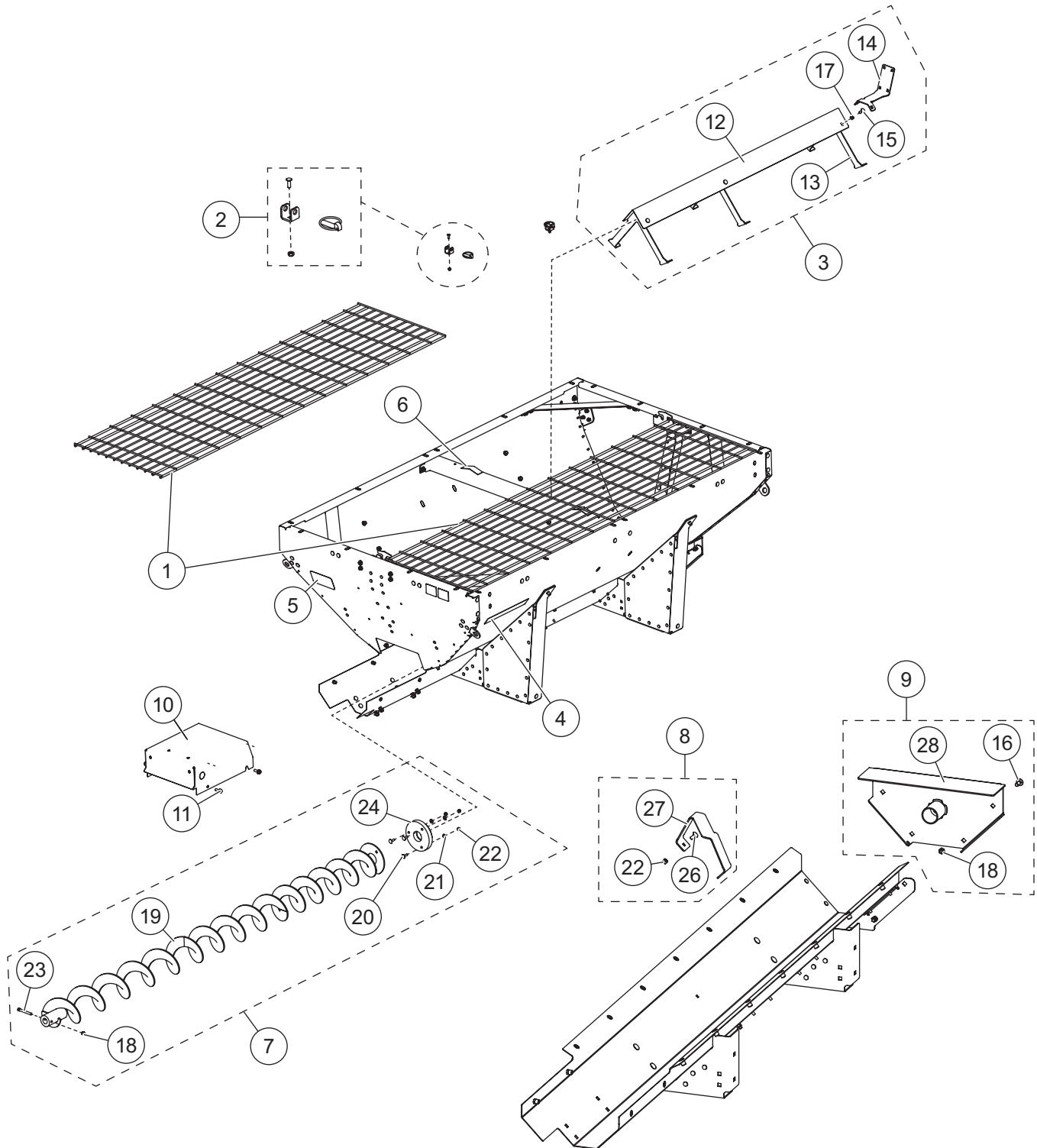
Parts List



This Parts List is for SnowEx® Renegade stainless steel hopper spreaders
with serial numbers beginning with 230301 and higher.

RENEGADE™ STAINLESS STEEL HOPPER SPREADERS

HOPPER ASSEMBLY



RENEGADE™ STAINLESS STEEL HOPPER SPREADERS

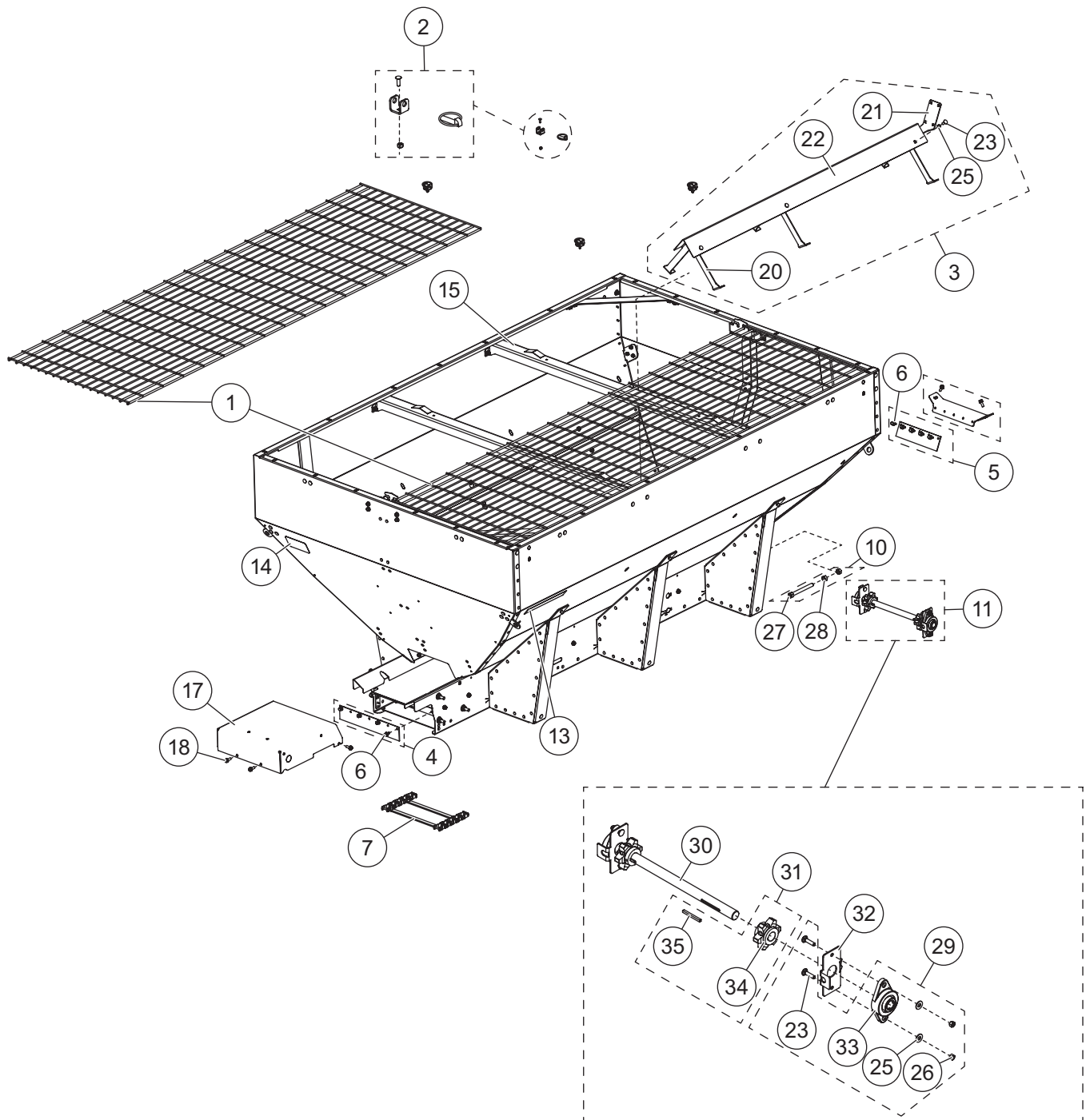
Hopper Assembly Components							
Item	Part	Qty	Description	Item	Part	Qty	Description
1	99515	2	Top Screen – S150	7	31849	1	Auger Kit, Short – S150A
ns	99516	2	Top Screen – S220	ns	31851	1	Auger Kit, Long – S220A/S300A/S400A/S500A
ns	80080	2	Top Screen – S300	8	85422	2*	Auger Keeper Kit
ns	99518	2	Top Screen – S400/S500	9	31852	1	Cab-Side Trough Cap Kit
2	99578	1	Screen Attachment Kit (set of 4)	10	31853	1	Extension Cover, Auger – S150A
3	93990	1	Inverted V Kit – S150	ns	31857	1	Extension Cover, Auger – S220A
ns	93995	1	Inverted V Kit – S220/S300/S400/S500	ns	31859	1	Extension Cover, Auger – S300A
4	31594EN	2	Label – Warning/Caution, Spreaders	ns	31900	1	Extension Cover, Auger – S400A/S500A
5	30916EN	1	Label – Warning Rotating Parts	11	31983	1	Bolt Bag – Extension Cover
6	67272	4	Label – Caution, Do Not Lift				
Item 3 93990 Inverted V Kit – S150							
12		1	Inverted V – Short	14		1	Bracket, Inverted V – S150
13		3	Inverted V Formed Leg	ns	31923	1	Bolt Bag – Inverted V
93995 Inverted V Kit – S220/S300/S400/S500							
13		3	Inverted V Formed Leg	ns		1	Bracket, Inverted V – S300
ns		1	Inverted V – Long	ns		1	Bracket, Inverted V – S400/S500
ns		1	Bracket, Inverted V – S220	ns	31923	1	Bolt Bag – Inverted V
31923 Bolt Bag – Inverted V							
15		4	3/8-16 x 1-1/2 Carriage Bolt SS	17		10	3/8 Flat Washer SS
16		6	3/8-16 x 1 Carriage Bolt SS	18		10	3/8-16 Hex Locknut SS
Item 7 31849 Auger Kit, Short – S150A							
18		1	3/8-16 Hex Locknut SS	22		3	5/16-18 Hex Locknut SS
19		1	82" Auger	23		1	3/8-16 x 3 Hex Cap Screw SS
20		3	5/16-18 x 1 Carriage Bolt SS	24	11888	1	Front Auger Bearing
21		3	5/16 Flat Washer SS				
31851 Auger Kit, Long – S220A/S300A/S400A/S500A							
18		1	3/8-16 Hex Locknut SS	23		1	3/8-16 x 3 Hex Cap Screw SS
20		3	5/16-18 x 1 Carriage Bolt SS	24	11888	1	Front Auger Bearing
21		3	5/16 Flat Washer SS	ns		1	90" Auger
22		3	5/16-18 Hex Locknut SS				
Item 8 85422 Auger Keeper Kit							
22		2	5/16-18 Hex Locknut SS	27		1	Auger Keeper
26		2	5/16-18 x 3/4 Carriage Bolt SS				
Item 9 31852 Cab-Side Trough Cap Kit							
16		5	3/8-16 x 1 Carriage Bolt SS	28		1	Cab-Side Trough Plate
18		5	3/8-16 Hex Locknut SS	ns		1	Auger Shaft Assembly
Item 11 31983 Bolt Bag – Extension Cover							
		4	3/8-16 x 1 Flanged Hex Cap Screw SS				
ns = not shown				SS = Stainless Steel			

* The S150A auger kit requires one auger keeper; S220A/S300A/S400A/S500A auger kit requires two auger keepers.

Labels – Renegade Hopper Spreaders					
Part	Qty	Description	Part	Qty	Description
30596	1	Label – Logo, SnowEx® Chute	31282	2	Label – Logo, Renegade S300A
30598	1	Label – Logo, HELIXX™	31281	2	Label – Logo, Renegade S300C
31278	2	Label – Logo, Renegade S150A	31284	2	Label – Logo, Renegade S400A
31277	2	Label – Logo, Renegade S150C	31285	2	Label – Logo, Renegade S400C
31280	2	Label – Logo, Renegade S220A	31286	2	Label – Logo, Renegade S500A
31279	2	Label – Logo, Renegade S220C	31287	2	Label – Logo, Renegade S500C

RENEGADE™ STAINLESS STEEL HOPPER SPREADERS

HOPPER ASSEMBLY

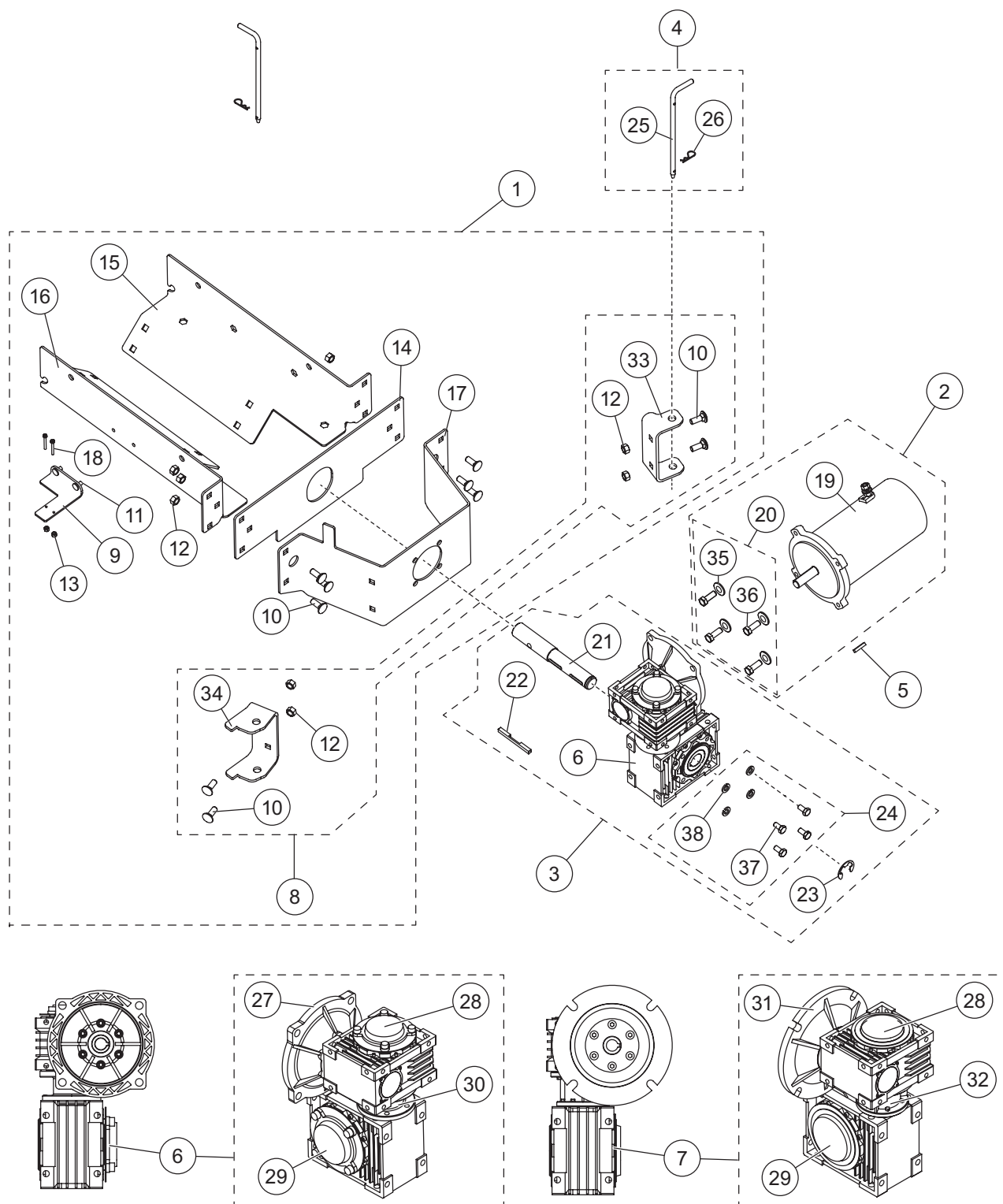


RENEGADE™ STAINLESS STEEL HOPPER SPREADERS

Hopper Assembly Components							
Item	Part	Qty	Description	Item	Part	Qty	Description
1	99515	2	Top Screen – S150	8	68492	1	Conveyor Repair Bar (w/Pins & Cotters)
ns	99516	2	Top Screen – S220	9	68475	1	Conveyor Repair Link (w/Pins & Cotters)
ns	80080	2	Top Screen – S300	10	99073	2	Tensioner Bolt Kit
ns	99518	2	Top Screen – S400/S500	11	99480	1	Idler Shaft Assembly Kit
2	99578	1	Screen Attachment Kit (set of 4)	12	94953	2	Spreader Bearing Kit
ns	93990	1	Inverted V Kit – S150	13	31594EN	2	Label – Warning/Caution, Spreaders
3	93995	1	Inverted V Kit – S220/S300/S400/S500	14	30916EN	1	Label – Warning Rotating Parts
4	78266	1	Wiper Replacement Kit	15	67272	4	Label – Caution, Do Not Lift
5	31848	1	Body Wiper Replacement Kit	16	31854	1	Extension Cover, Chain – S150C
6	99079	1	Rivet Kit, Wiper (pkg of 5)		31858	1	Extension Cover, Chain – S220C
ns	94898	1	Pintle Chain (108 links) – S150C		31875	1	Extension Cover, Chain – S300C
7	68474	1	Pintle Chain (123 links) – S220C/S300C/S400C/S500C	17	31922	1	Extension Cover, Chain – S400C/S500C
				18	31983	1	Bolt Bag – Extension Cover
93990 Inverted V Kit – S150							
19		1	Inverted V – Short	ns		1	Bracket, Inverted V – S150
20		3	Inverted V Formed Leg	ns	31923	1	Bolt Bag – Inverted V
Item 3 93995 Inverted V Kit – S220/S300/S400/S500							
20		3	Inverted V Formed Leg	ns		1	Bracket, Inverted V – S300
ns		1	Bracket, Inverted V – S400/S500	22		1	Inverted V – Long
21		1	Bracket, Inverted V – S220	ns	31923	1	Bolt Bag – Inverted V
31923 Bolt Bag – Inverted V							
23		4	3/8-16 x 1-1/2 Carriage Bolt SS	25		10	3/8 Flat Washer SS
24		6	3/8-16 x 1 Carriage Bolt SS	26		10	3/8-16 Hex Locknut SS
Item 10 99073 Tensioner Bolt Kit							
27		1	5/8-11 x 6 Take-Up Bolt	28		1	5/8-11 Hex Nut
Item 11 99480 Idler Shaft Assembly Kit							
29	94953	2	Spreader Bearing Kit	31	99479	2	6-Tooth Sprocket
30	94351	1	Idler Shaft	32	99765	2	Bearing Alignment Plate
Item 18 31983 Bolt Bag – Extension Cover							
		4	3/8-16 x 1 Flanged Hex Cap Screw SS				
Item 29 94953 Spreader Bearing Kit							
23		2	3/8-16 x 1-1/2 Carriage Bolt SS	26		2	3/8-16 Hex Locknut SS
25		2	3/8 Flat Washer SS	33	94536	1	2-Bolt Flanged Bearing, 1.125 ID
Item 31 99479 6-Tooth Sprocket							
34		1	Drive Sprocket 6T	35	95076	1	1/4 x 2-3/4 Machine Key
ns = not shown				SS = Stainless Steel			

RENEGADE™ STAINLESS STEEL HOPPER SPREADERS

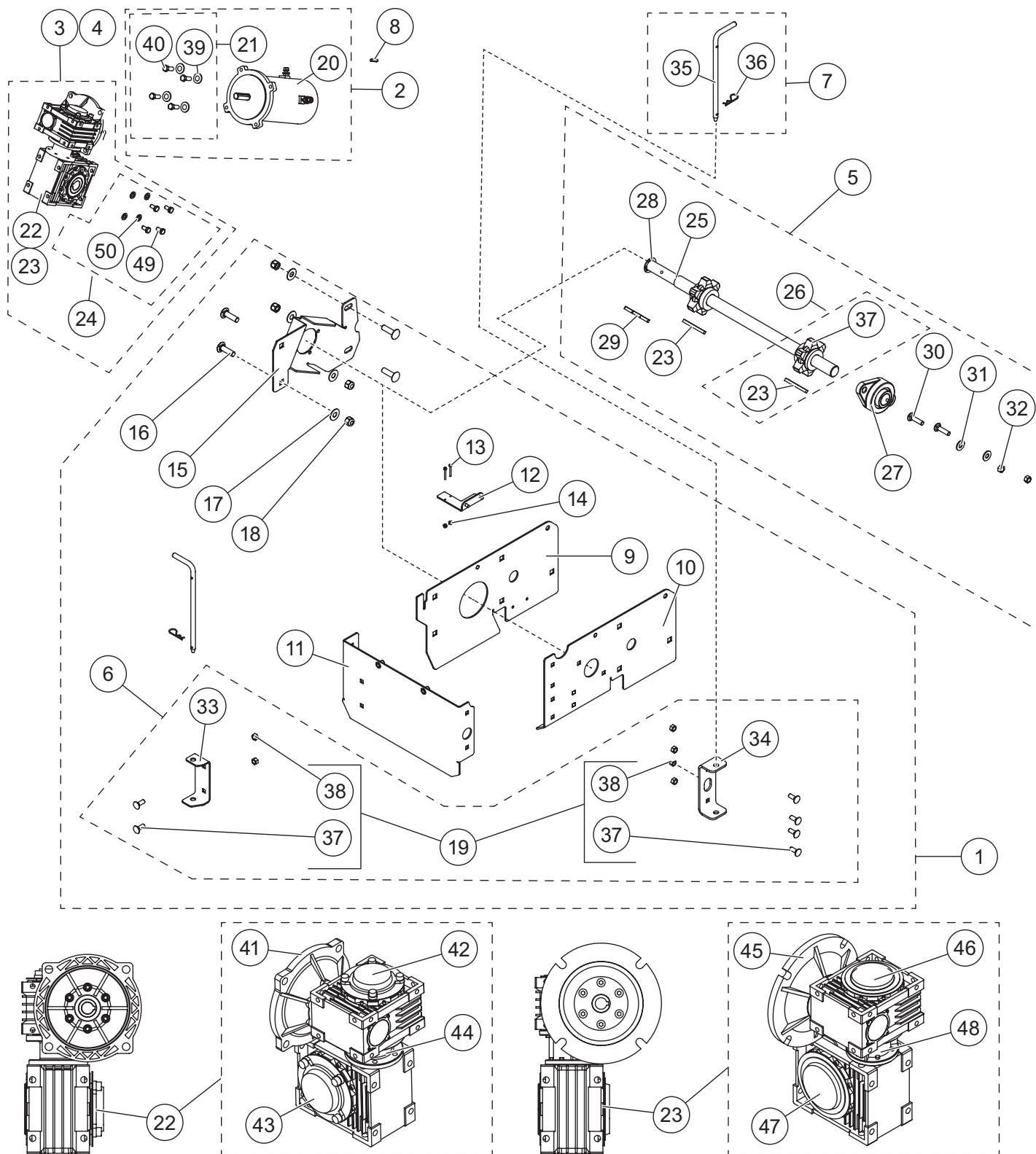
POWERGROUP ASSEMBLY – AUGER DRIVE



Gear boxes not to scale.

RENEGADE™ STAINLESS STEEL HOPPER SPREADERS

POWERGROUP ASSEMBLY – CHAIN DRIVE



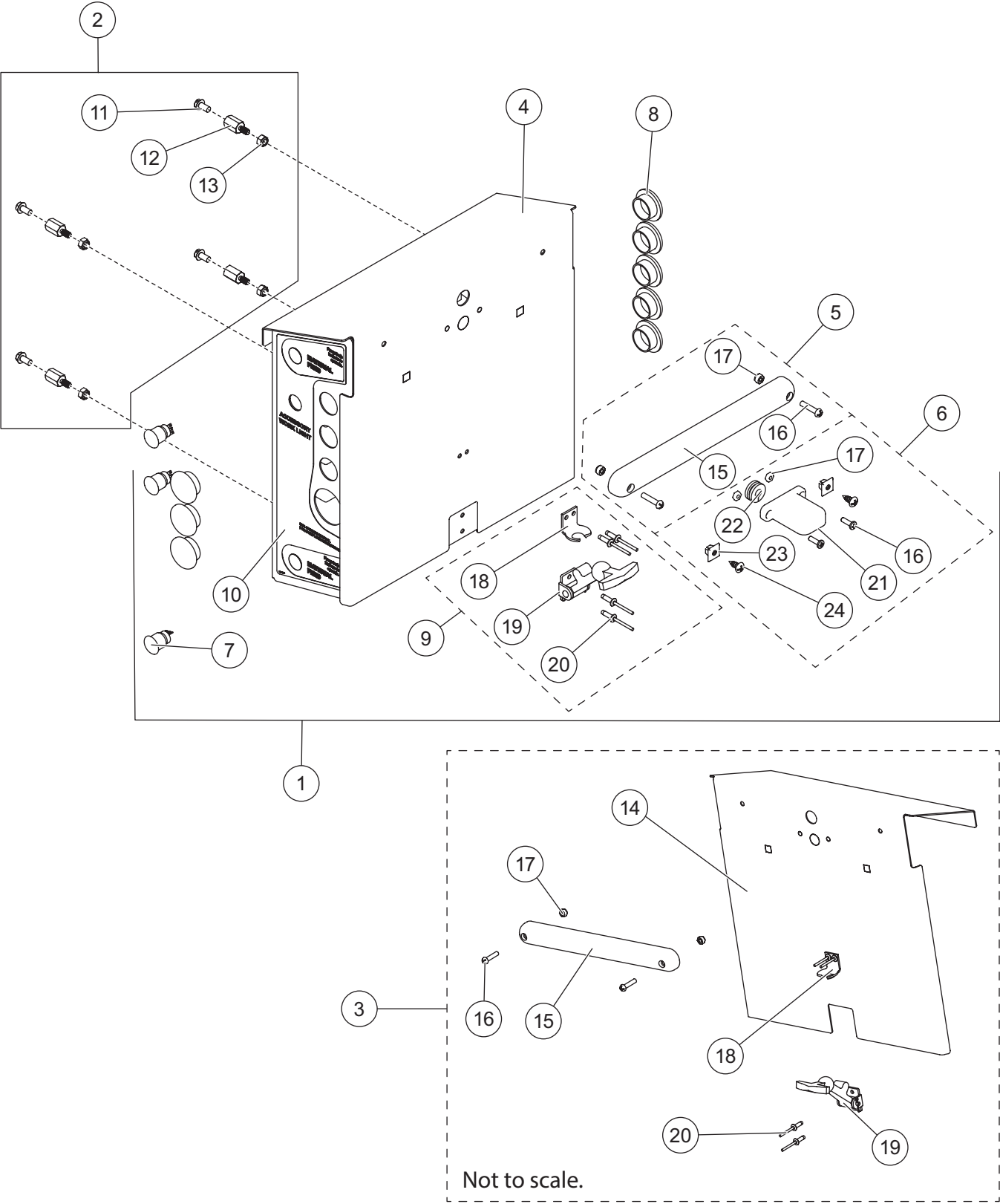
Gear boxes not to scale.

RENEGADE™ STAINLESS STEEL HOPPER SPREADERS

Drivetrain Assembly Components							
Item	Part	Qty	Description	Item	Part	Qty	Description
1	31926	1	Chain Powergroup – Mount Kit	6	31927	1	Chute Attachment Kit – Chain
2	99085	1	Driveline Motor Kit	7	78031	1	Chute Attachment Pin Kit
3	99087	1	Gear Box Kit – Flange w/Holes	8	65195	1	3/16 x 1 Machine Key
4	31549	1	Gear Box Kit – Flange w/Slots				
5	99094	1	Drive Shaft Kit				
Item 1 31926 Chain Powergroup – Mount Kit							
6	31927	1	Chute Attachment Kit – Chain	15		1	Gear Box Mount Bracket
9		1	Powergroup Side Plate DS	16		2	1/2-13 x 1-3/4 Carriage Bolt
10		1	Powergroup Side Plate PS	17		2	1/2 Flat Washer SS
11		1	Powergroup Brace	18		2	1/2-13 Hex Locknut SS
12		1	Harness Bracket	19	31928	1	Bolt Bag – Chute Attachment Kit
13		2	#6-32 x 1-1/4 Hex Cap Screw SS	ns	69916	1	8-Pin Cable Boot
14		2	#6-32 Hex Locknut SS	ns		2	Motor Terminal Cover
Item 2 99085 Driveline Motor Kit							
20	D6825-1	1	Motor 1/2 HP, NEMA 56C	21	99086	1	Bolt Bag – Driveline Motor
Item 3 99087 Gear Box Kit – Flange w/Holes							
22	99067	1	Gear Box – Flange w/Holes	24	99088	1	Bolt Bag – Gear Box Kit
Item 4 31549 Gear Box Kit – Flange w/Slots							
23	31098	1	Gear Box – Flange w/Slots	24	99088	1	Bolt Bag – Gear Box Kit
Item 5 99094 Drive Shaft Kit							
25		1	Drive Shaft	30		2	3/8-16 x 1-1/2 Carriage Bolt SS
26	99479	2	6-Tooth Sprocket Kit	31		2	3/8-16 Hex Nut SS
27	94536	1	Bearing, 1.125 ID 2-Bolt Flange	32		2	3/8 Flat Washer, Type A Wide SS
28	330	1	1" Retaining Ring	ns		2	3/8 Lock Washer SS
29	99572	1	1/4 x 3 Machine Key				
Item 6 31927 Chute Attachment Kit – Chain							
19	31928	1	Bolt Bag – Chute Attachment Kit	34		1	Chain Chute Side Bracket
33		1	Chain Chute Front Bracket				
Item 7 78031 Chute Attachment Pin Kit							
35		2	1/2 x 9 Chute Pin	36		2	3/32 x 2-1/4 Cotter Pin
Item 19 31928 Bolt Bag – Chute Attachment Kit							
37		4	3/8-16 x 1 Carriage Bolt SS	38		4	3/8-16 Locknut SS
Item 21 99086 Bolt Bag – Driveline Motor							
39		4	3/8 Flat Washer SS	40		4	3/8-16 x 3/4 Hex Cap Screw SS
Item 22 99067 Gear Box – Flange w/Holes							
41	30456	1	Motor Flange (with holes)	43	86799	1	Gear Box Cover Kit, Secondary
42	86792	1	Gear Box Cover Kit, Primary	44	30017	1	Connector Flange
Item 23 31098 Gear Box – Flange w/Slots							
45	31101	1	Motor Flange (with slots)	47	86799	1	Gear Box Cover Kit, Secondary
46	86792	1	Gear Box Cover Kit, Primary	48	31102	1	Connector Flange
Item 24 99088 Bolt Bag – Gear Box Kit							
49		4	M8-1.25 x 16 Hex Cap Screw SS	50		4	M8 Lock Washer SS
ns = not shown G = Grade SS = Stainless Steel M = Metric							

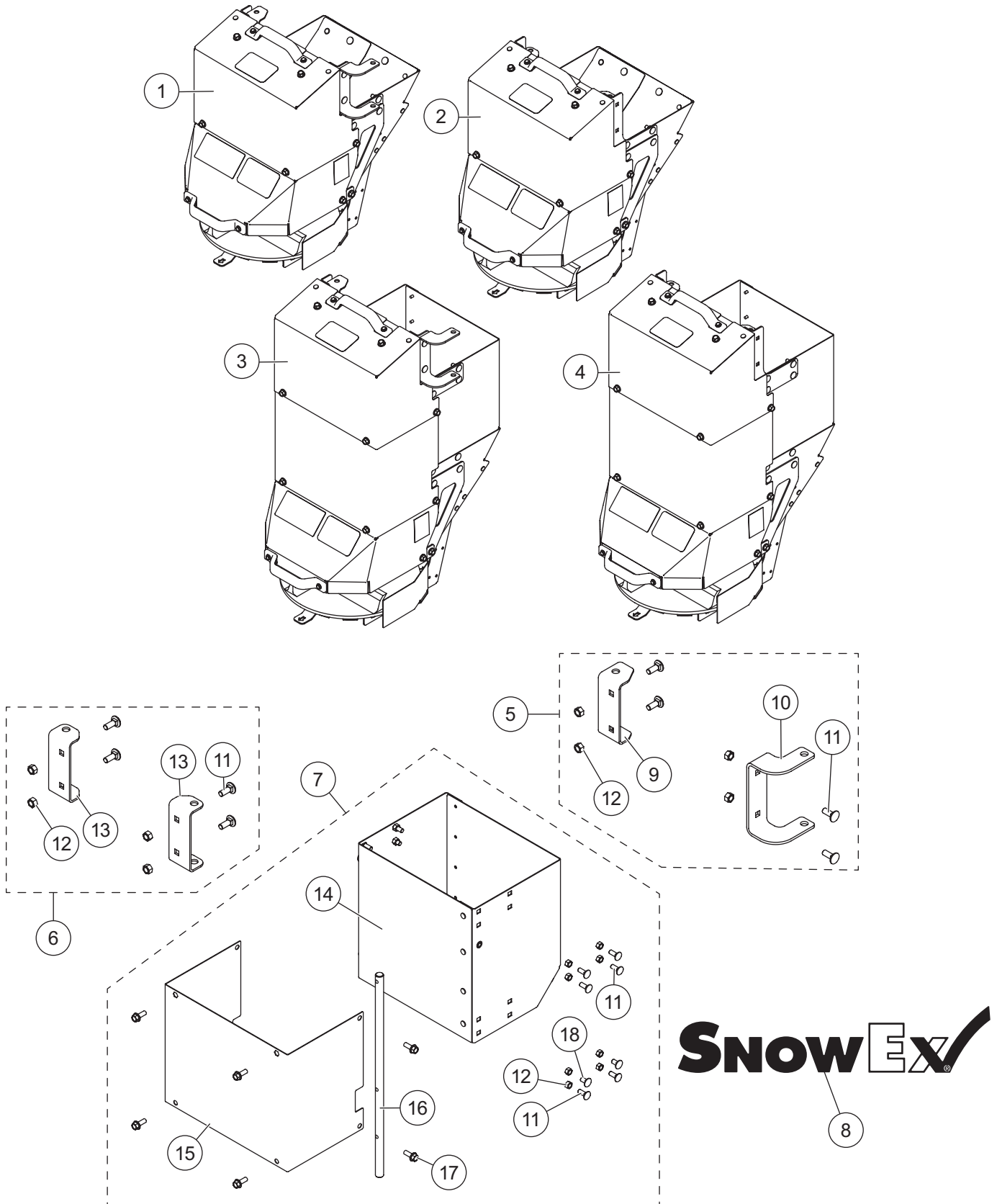
RENEGADE™ STAINLESS STEEL HOPPER SPREADERS

ELECTRICAL BOX ASSEMBLY



RENEGADE™ STAINLESS STEEL HOPPER SPREADERS

CHUTE ASSEMBLIES

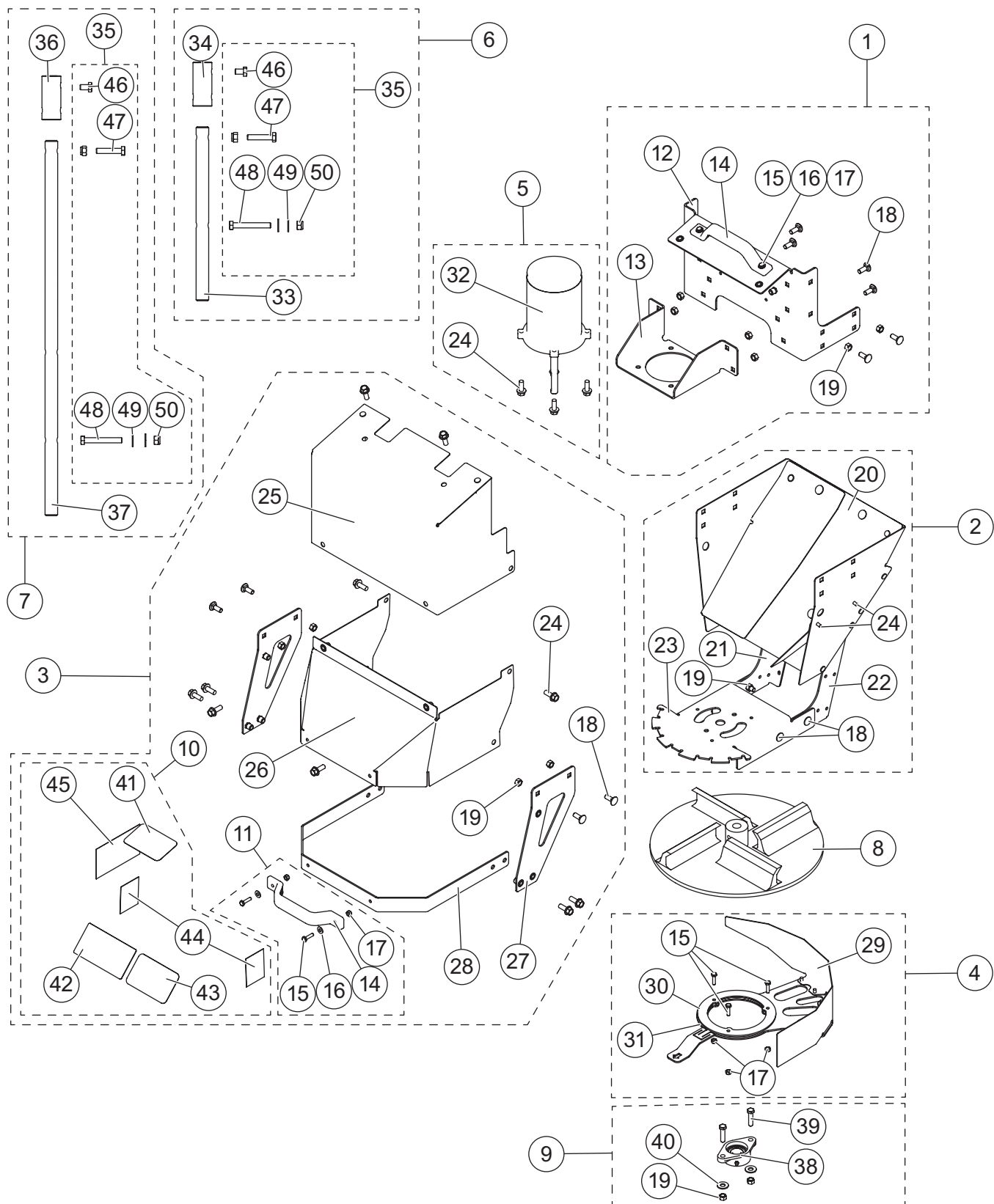


RENEGADE™ STAINLESS STEEL HOPPER SPREADERS

Chute Assembly Components							
Item	Part	Qty	Description	Item	Part	Qty	Description
1	31942	1	Short Chute – Chain	5	31934	1	Chute Attachment Kit – Chain
2	31943	1	Short Chute – Auger	6	31935	1	Chute Attachment Kit – Auger
3	31944	1	Long Chute – Chain	7	31936	1	Chute Extension Kit
4	31946	1	Long Chute – Auger	8	30596	1	Label – Logo, SnowEx® Chute
Item 5 31934 Chute Attachment Kit – Chain							
9		1	Chain Chute Bracket	ns	31928	1	Bolt Bag – Chute Attachment Kit
10		1	Chain Chute Bracket Wrap				
Item 6 31935 Chute Attachment Kit – Auger							
13		2	Auger Chute Bracket	ns	31928	1	Bolt Bag – Chute Attachment Kit
Item 7 31936 Chute Extension Kit							
14		1	12" Chute Extension	16		1	Chute Shaft – Long
15	31938	1	Chute Extension Cover	ns	31939	1	Bolt Bag – Chute Extension Kit
31928 Bolt Bag – Chute Attachment Kit							
11	90375	4	3/8-16 x 1 Carriage Bolt SS	12	91351	4	3/8-16 Locknut SS
31939 Bolt Bag – Chute Extension Kit							
11		13	3/8-16 x 1 Carriage Bolt SS	17		4	3/8-16 x 1 Flanged Hex Cap Screw SS
12		17	3/8-16 Locknut SS	18		4	3/8-16 x 3/4 Carriage Bolt SS
ns = not shown				SS = Stainless Steel			

RENEGADE™ STAINLESS STEEL HOPPER SPREADERS

CHUTE ASSEMBLIES

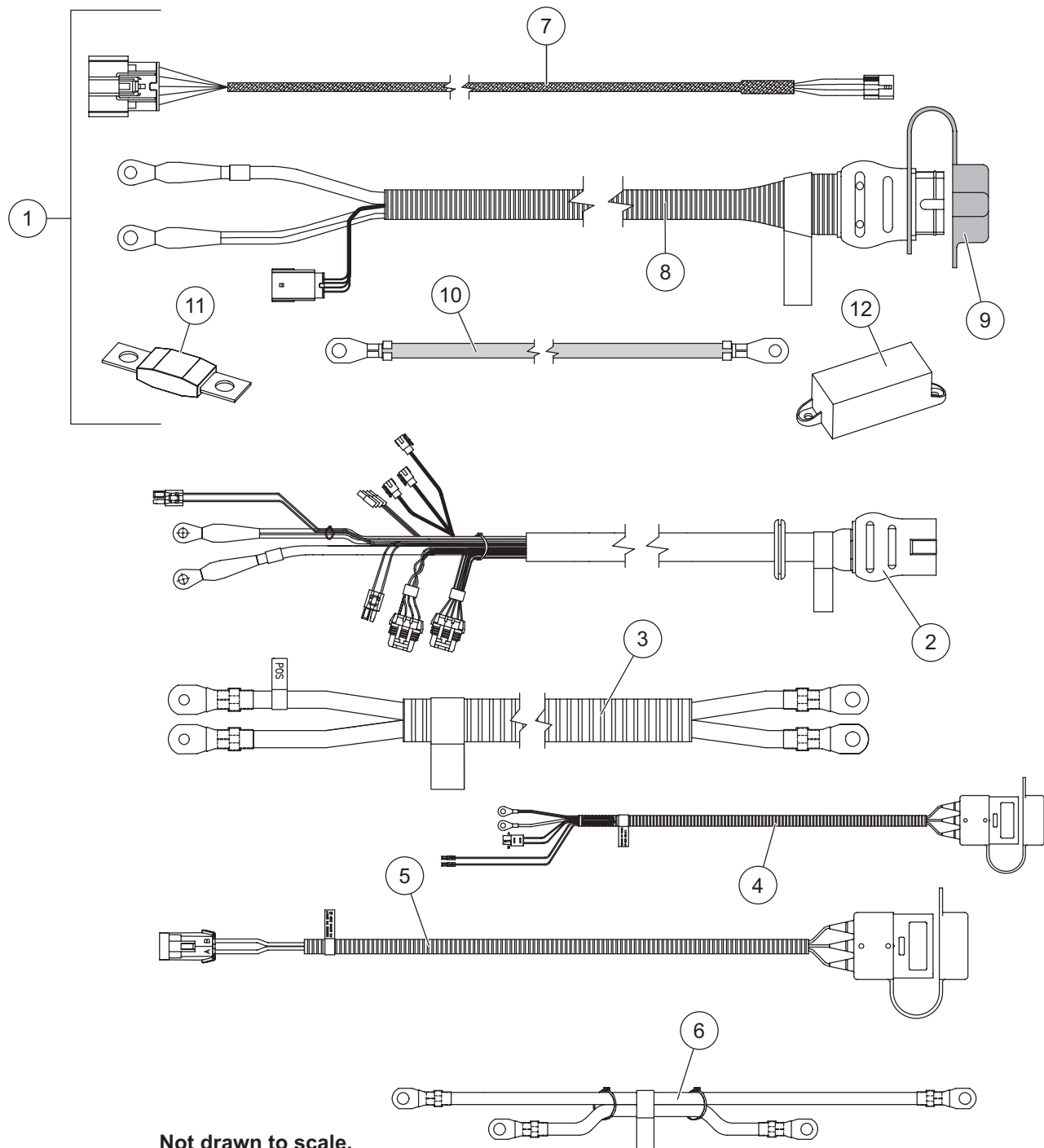


RENEGADE™ STAINLESS STEEL HOPPER SPREADERS

Chute Assembly Components							
Item	Part	Qty	Description	Item	Part	Qty	Description
1	31947	1	Chute Mounting Kit	7	31964	1	Chute Spinner Shaft Kit – Long
2	31948	1	Chute Body Kit	8	94424	1	Spinner, Black Poly – CCW Rotation
3	31949	1	Chute Cover Kit	9	31965	1	Bearing Kit
4	31961	1	Chute Shutter Kit	10	31970	1	Chute Label Kit
5	31962	1	Chute Motor Kit	11	99098	1	Handle Kit, SH
6	31963	1	Chute Spinner Shaft Kit – Short				
Item 1 31947 Chute Mounting Kit							
12		1	Chute Hanger	16		2	1/4 Flat Washer SS
13		1	Chute Motor Mount	17		2	1/4-20 Hex Locknut SS
14		1	Plastic Handle	18		12	3/8-16 x 1 Carriage Bolt SS
15		2	1/4-20 x 1 Hex Cap Screw SS	19		12	3/8-16 Locknut SS
Item 2 31948 Chute Body Kit							
18		8	3/8-16 x 1 Carriage Bolt SS	22		1	Chute Support – PS
19		8	3/8-16 Locknut SS	23		1	Chute Shutter Mount
20		1	Chute Body	ns		1	Chute Cross Brace
21		1	Chute Support – DS	24		4	3/8-16 x 1 Flanged Hex Cap Screw SS
Item 3 31949 Chute Cover Kit							
10	31970	1	Chute Label Kit	27		2	Chute Guard Bracket
14		1	Plastic Handle	28		1	Chute Guard
25		1	Chute Cover – Top	ns	31981	1	Bolt Bag – Chute Cover Kit
26		1	Chute Cover – Bottom				
Item 4 31961 Chute Shutter Kit							
15		3	1/4-20 x 1 Hex Cap Screw SS	30		2	Deflector Ring
17		3	1/4-20 Hex Locknut SS	31		1	Centering Ring
29		1	Adjustable Deflector				
Item 5 31962 Chute Motor Kit							
24		4	3/8-16 x 1 Flanged Hex Cap Screw SS	32	D6887	1	Spinner Motor, Direct Drive
Item 6 31963 Chute Spinner Shaft Kit – Short							
33		1	Spinner Shaft Coupler	35	31982	1	Bolt Bag – Chute Spinner Shaft Kit
34		1	Spinner Shaft – Short				
Item 7 31964 Chute Spinner Shaft Kit – Long							
35	31982	1	Bolt Bag – Chute Spinner Shaft Kit	37		1	Spinner Shaft – Long
36		1	Spinner Shaft Coupler				
Item 9 31965 Bearing Kit							
19		2	3/8-16 Locknut SS	39		2	3/8-16 x 1-1/2 Hex Cap Screw SS
38	96167	1	Pillow Block Bearing 3/4 Bore	40		2	3/8 Flat Washer SS
Item 10 31970 Chute Label Kit							
41	30917EN	1	Label – No Step	44	32593EN	2	Label – Warning, Multiple Pinch Points
42	11100	1	Label – Warning, Rear Camera	45	92969	1	Label – Chute Disconnect
43	30918EN	1	Label – Warning, GVWR/Loading				
Item 11 99098 Handle Kit – SH							
14		1	Plastic Handle	ns	99099	1	Bolt Bag – Handle Kit SH
Item 35 31982 Bolt Bag – Chute Spinner Shaft Kit							
46		1	5/16-18 x 1/2 Hex Cap Screw SS	49		2	5/16 Flat Washer SS
47		1	5/16-18 x 1-1/2 Hex Cap Screw SS	50		2	5/16-18 Locknut SS
48		1	5/16-18 x 2-1/4 Hex Cap Screw SS				
31981 Bolt Bag – Chute Cover Kit							
15		2	1/4-20 x 1 Hex Cap Screw SS	18		4	3/8-16 x 1 Carriage Bolt SS
16		2	1/4 Flat Washer SS	19		4	3/8-16 Locknut SS
17		2	1/4-20 Hex Locknut SS	24		10	3/8-16 x 1 Flanged Hex Cap Screw SS
ns = not shown				SS = Stainless Steel			

RENEGADE™ STAINLESS STEEL HOPPER SPREADERS

CONTROL & ELECTRICAL COMPONENTS



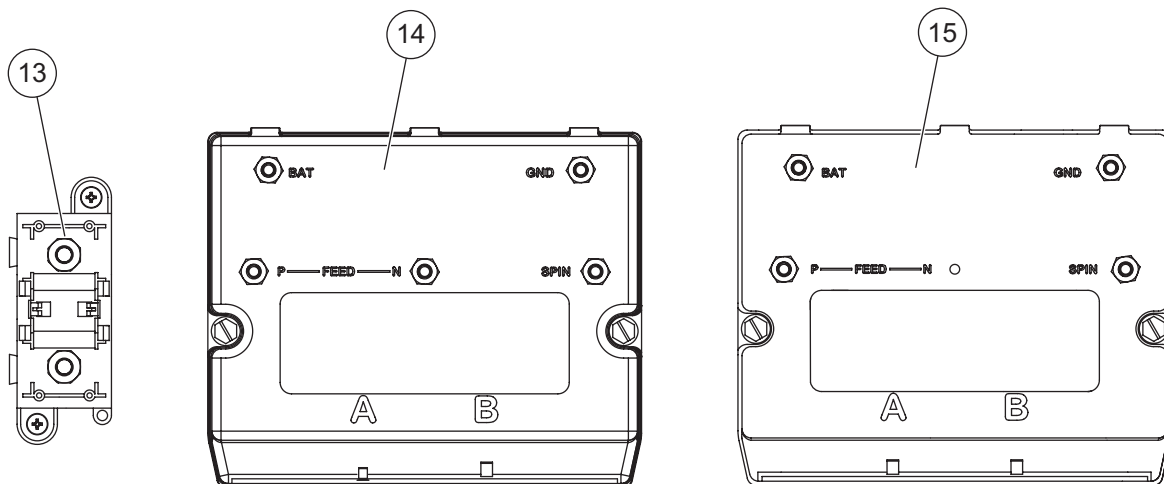
RENEGADE™ STAINLESS STEEL HOPPER SPREADERS

CONTROL & ELECTRICAL COMPONENTS

Cables & Harnessing / Electrical Enclosure Assembly							
Item	Part	Qty	Description	Item	Part	Qty	Description
1	83695*	1	Vehicle-Side Harness – 330" Kit	4	87632	1	Chute Module Side Cable Assembly
	78402**	1	Vehicle-Side Harness – 300" Kit	5	87617	1	Chute Motor Side Cable Assembly
2	83688	1	Hopper Cable Assembly	6	78385	1	Module to Isolated Stud Cable Assy
3	78987	1	Module to Auger Motor Cable Assy				
Item 1 83695* Vehicle-Side Harness Kit – 330"							
7	69902	1	Vehicle Control Harness	11	95836	1	Fuse, 100A
8	83690	1	Vehicle Harness Assy (incl. item 9)	12	31179	1	Fuse Holder/Isolated Stud Block
9	99759	1	Plug Cover	ns		6	Cable Tie, HD
10	22511	1	22" Battery Cable – Red	ns		10	Cable Tie, 14" Black
Item 1 78402** Vehicle-Side Harness Kit – 300"							
7	69902	1	Vehicle Control Harness	11	95836	1	Fuse, 100A
8	76057	1	Vehicle Harness Assy (incl. item 9)	12	31179	1	Fuse Holder/Isolated Stud Block
9	99759	1	Plug Cover	ns		6	Cable Tie, HD
10	22511	1	22" Battery Cable – Red	ns		10	Cable Tie, 14" Black
Electrical Box Components – Auger Spreader							
13	31179	1	Fuse Holder/Isolated Stud Block	14	52375	1	Spreader Module, 5-Post
Electrical Box Components – Chain Spreader							
13	31179	1	Fuse Holder/Isolated Stud Block	15	52385	1	Spreader Module, 4-Post
ns = not shown				G = Grade		SS = Stainless Steel	

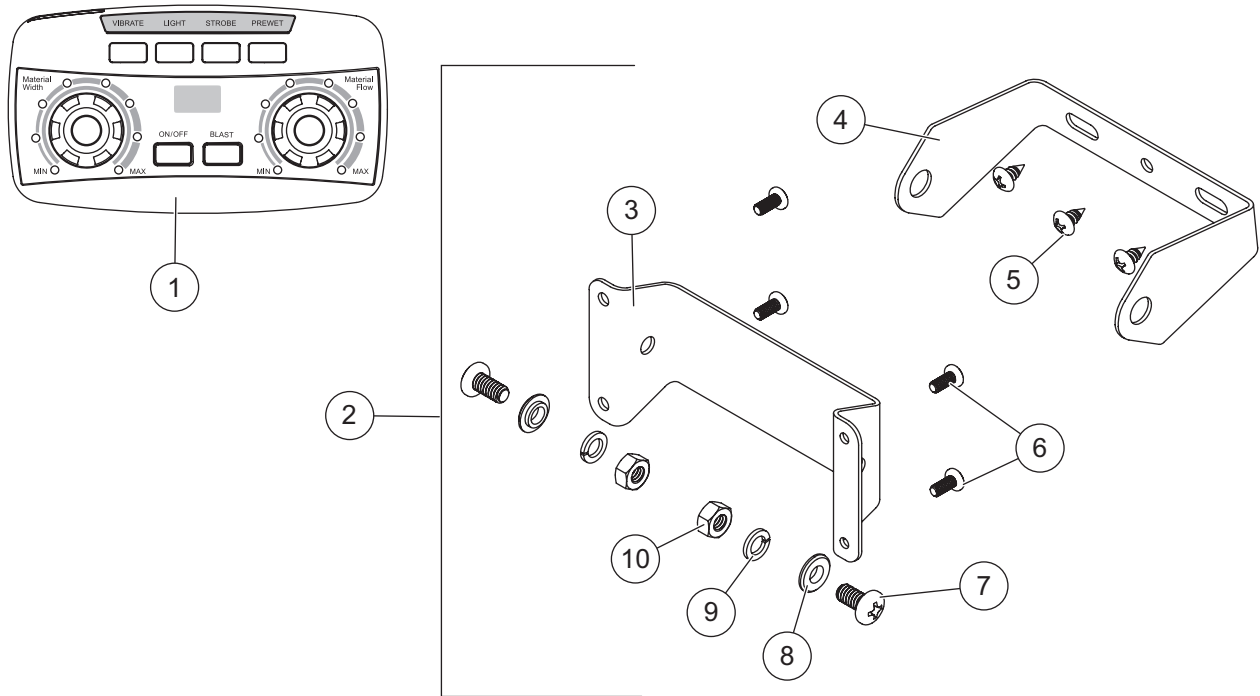
* For 3.0, 4.0, and 5.0 yd³ spreaders.

** For 1.5 and 2.2 yd³ spreaders.



RENEGADE™ 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 5/8 Pan Head Machine Screw SS
4		1	Bracket, Control Outer	8		2	1/4 Shoulder Washer – Black
5		3	#10 x 3/8 Pan Head 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 SS
SS = Stainless Steel				G = Grade			

RENEGADE™ STAINLESS STEEL HOPPER SPREADERS

ACCESSORIES

Part	Description	Part	Description
93265-1	Triple Threat, 50 gallon – S150 & S220	93521	Pullover Tarp Kit – S150
93270	Triple Threat, 200 gallon – S300/S400/S500	93522	Pullover Tarp Kit – S220
93275	Triple Threat, 100 gallon expansion – S300/ S400/S500	68790	Ratchet Tie-Down Kit
31210	Rearview Material Monitoring Camera	99690	Tie-Down Kit, SH Chain
93980	50" Side Extension Kit – S150 & S220	76668-1	Vibrator Kit
93985	70" Side Ext. Kit – S300/S400/S500	93990	Inverted V – S150 chain models
93970	50" Spill Guard Kit – S150 & S220	93995	Inverted V – S220 chain models
93975	70" Spill Guard Kit – S300/S400/S500	99505-2	LED Work Light Kit
11763-1	Central Point Grease Kit	99732-2	LED Work Light Kit (auxiliary)
		99494-1	LED Strobe Light Kit

RENEGADE™ STAINLESS STEEL HOPPER SPREADERS



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