



S N O W P L O W

VBX3000 SPREADER ASSEMBLY

PARTS EXPLOSION

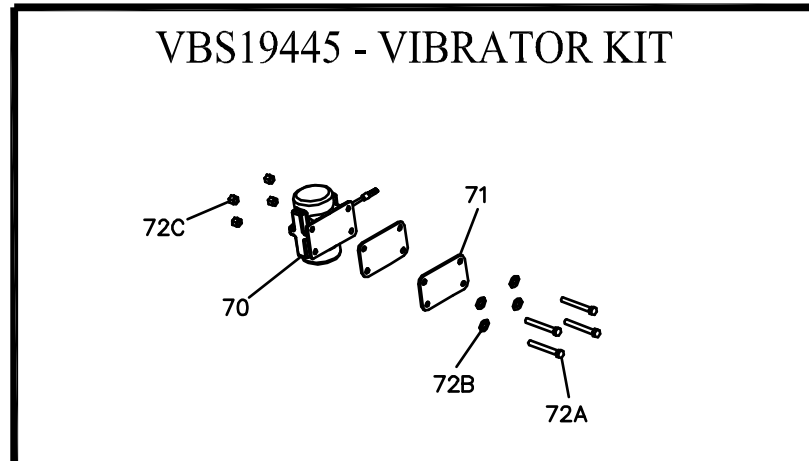
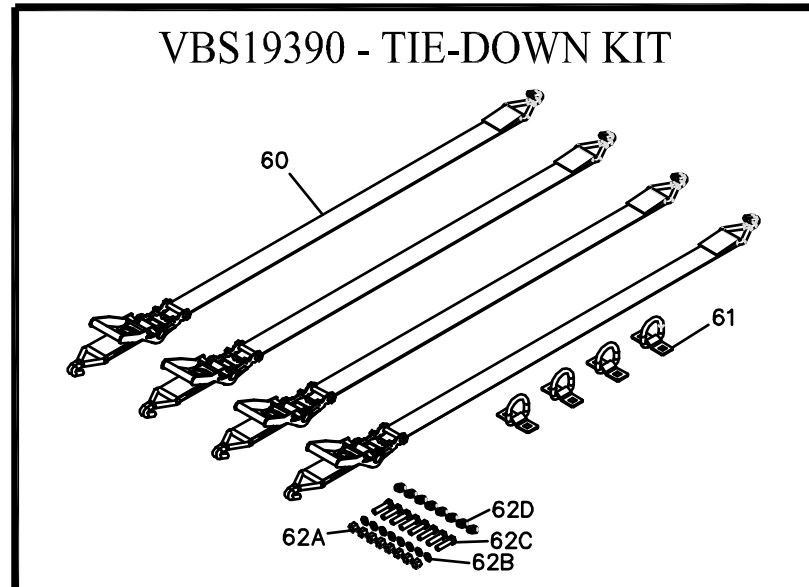
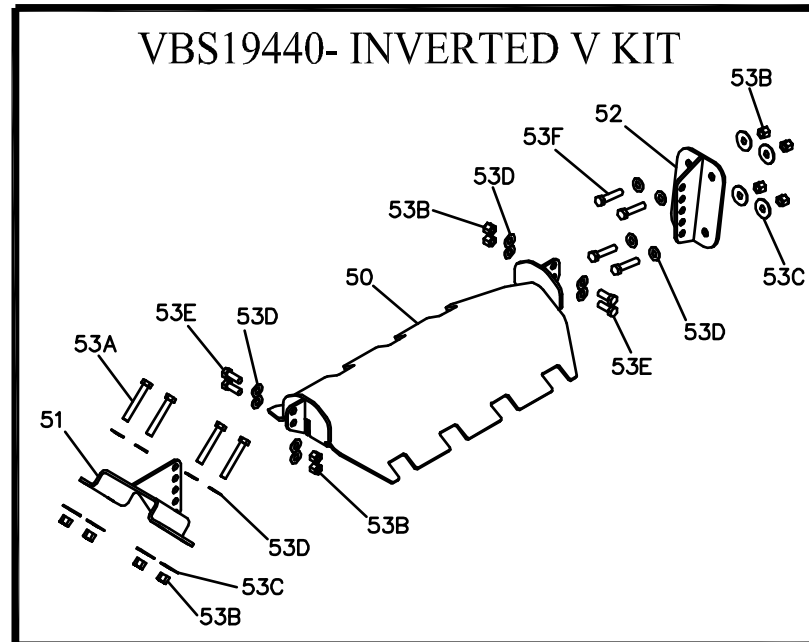
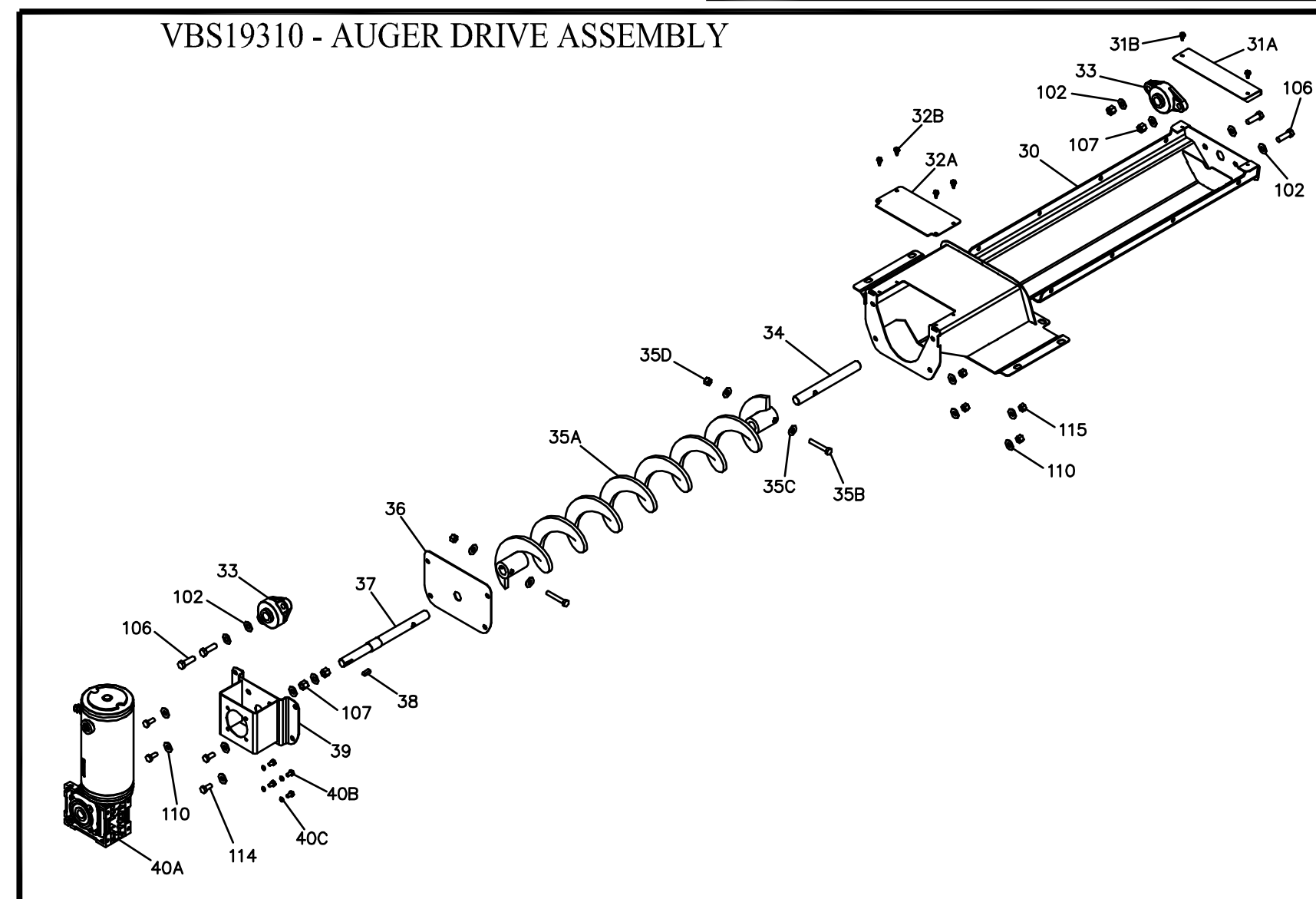
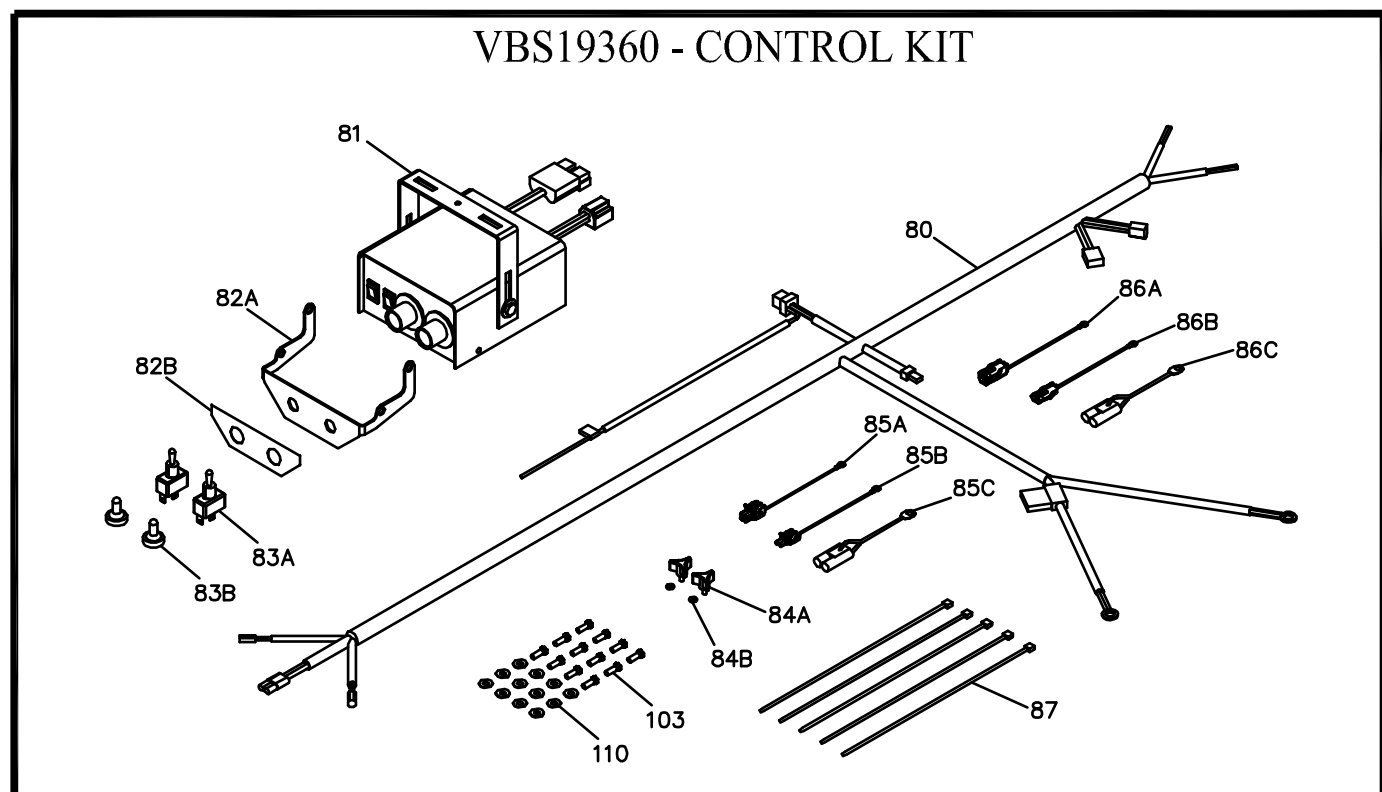
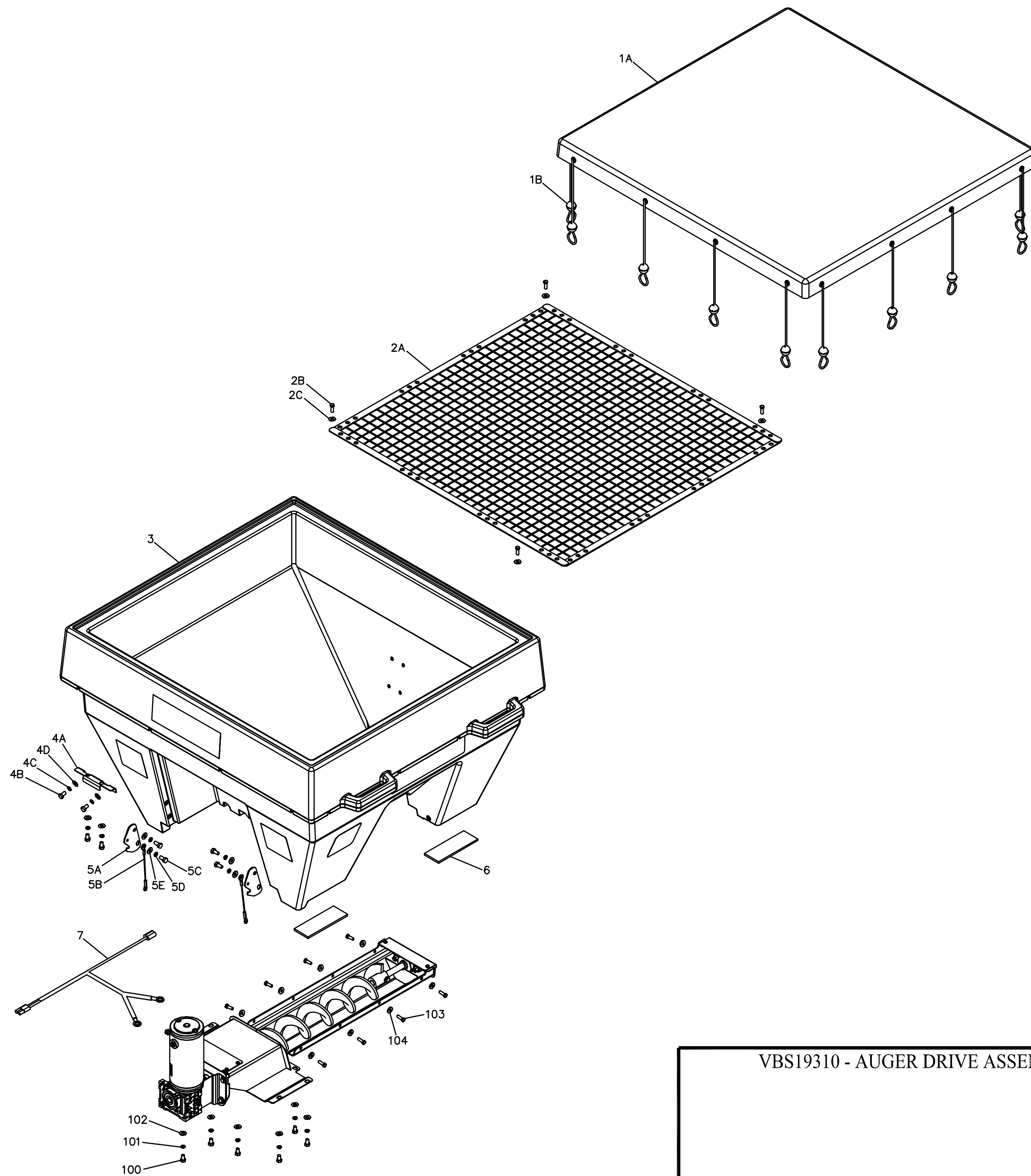
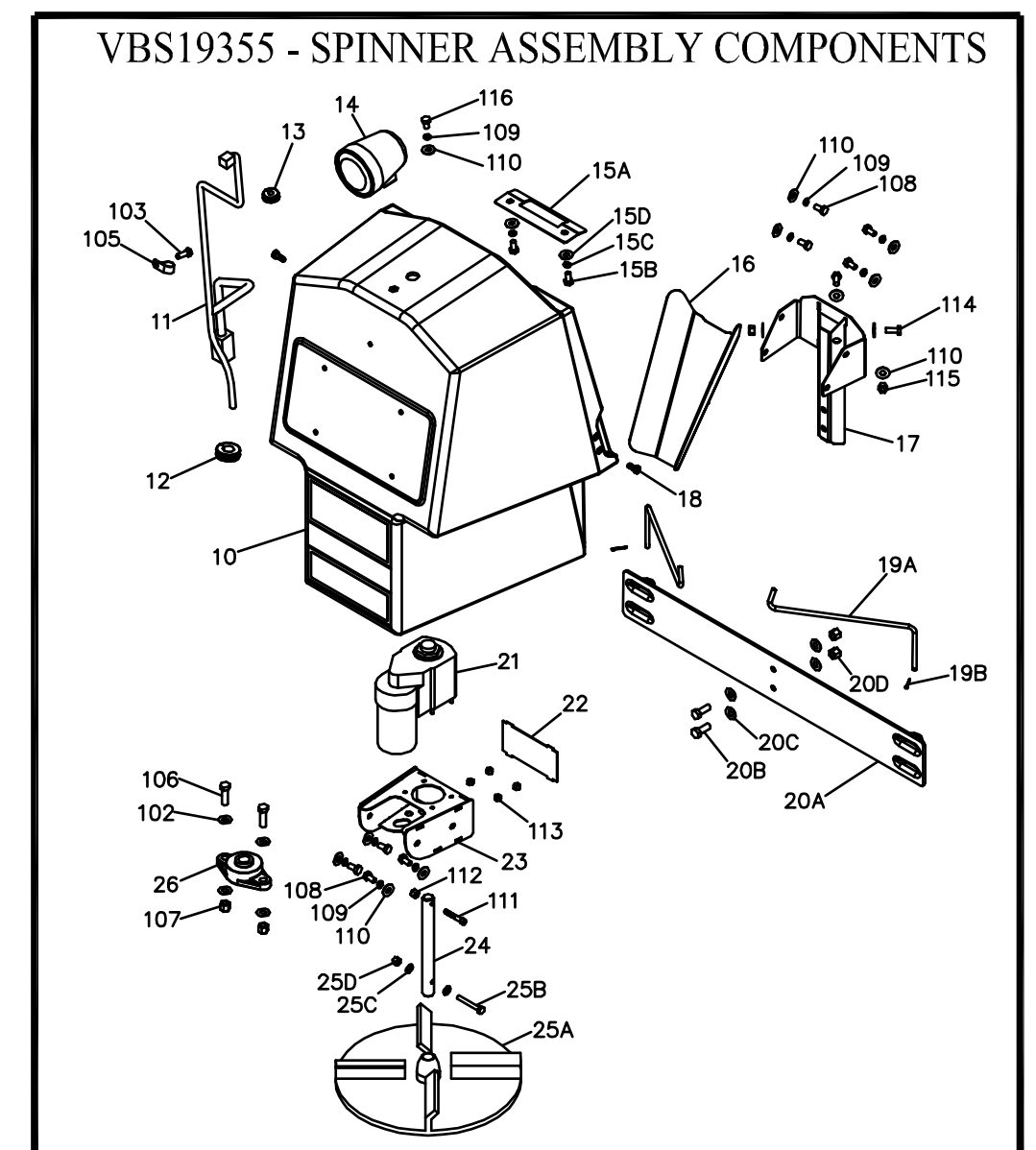
2015-2016



SPREADER COMPONENTS		
1	Hopper Cover	VBS19373
1A	Includes: (1) Tarp	
1B	(16) Tie-Down Bungee	
2	Top Screen and Hardware	VBS19435
2A	Includes: (1) Top Screen	VBS19380
2B	(8) Lag Screw, 5/16" X 1", ST/ST 18-8	HDW18316
2C	(8) Washer, Flat, 5/16", ST/ST 18-8	HDW14535
3	Hopper	VBS19302
4	Top Hopper Latch and Hardware	VBS19429
4A	Includes: (1) Top Hopper Latch	VBS19341
4B	(4) Hex Head Cap Screw, 3/8"-16 X 5/8", ST/ST 18-8	HDW19428
4C	(4) Lock Washer, 3/8", ST/ST 18-8	HDW14439
4D	(4) Flat Washer, 3/8", ST/ST 18-8	HDW05859
5	Side Hopper Hook and Hardware	VBS19431
5A	Includes: (1) Side Hopper Hook	VBS19358
5B	(1) Tether for Thumb Screw	MSC19393
5C	(2) Hex Head Cap Screw, 3/8"-16 X 3/4", ST/ST 18-8	HDW19387
5D	(2) Lock Washer, 3/8", ST/ST 18-8	HDW14439
5E	(2) Flat Washer, 3/8", ST/ST 18-8	HDW05859
6	Self Adhesive Rubber Feet	MSC19404
7	Drive Motor and Vibrator Harness	TGS15535

VBS19355 - SPINNER ASSEMBLY COMPONENTS		
10	Spinner Housing	VBS19305
11	Light and Spinner Motor Harness	MSC19370
12	Grommet, 3/4" ID, 1/4" GW, 1-1/4" GD, 1-9/16" OD	MSC03761
13	Grommet, 3/8" ID, 3/16" GW, 13/16" GD, 1-1/16" OD	MSC19344
14	55 W Halogen Light	MSC12249
15	Spinner Housing Catch and Hardware	VBS19432
15A	Includes: (1) Spinner Housing Catch	VBS19339
15B	(2) Hex Head Cap Screw, 5/16"-18 X 5/8", ST/ST 18-8	HDW19427
15C	(2) Lock Washer, 5/16", ST/ST 18-8	HDW14536
15D	(2) Flat Washer, 5/16", ST/ST 18-8	HDW14535
16	Chute	VBS19342
17	Chute and Deflector Mount	VBS19338
18	Socket Head Cap Screw, 5/16" X 1/4" Shoulder, 1/4"-20 X 7/16" Thread, ST/ST 18-8	HDW19328
19	Deflector Bracket and Hardware	TGS05958
19A	Includes: (1) Deflector Bracket	TGS05782
19B	(1) Cotter Pin, 3/32" X 5/8", ST/ST 18-8	HDW14430
20	Deflector and Hardware	VBS19433
20A	Includes: (1) Deflector	TGS05812
20B	(2) Hex Head Cap Screw, 3/8"-16 X 1", ST/ST 18-8	HDW05853
20C	(4) Flat Washer, 3/8", ST/ST 18-8	HDW05859
20D	(2) Nylon Locking Nut, 3/8"-16, ST/ST 18-8	HDW05854
21	Spinner Motor	TGS05898
22	Spinner Motor Cover (Plastic)	VBS19376
23	Spinner Motor Mount	VBS19335
24	Spinner Motor Shaft, 3/4"	VBS14008
25	Urethane Spinner and Hardware	VBS19434
25A	Includes: (1) Urethane Spinner	MSC11336
25B	(1) Hex Head Cap Screw, 1/4"-20 X 2", ST/ST 4-10	HDW05857
25C	(2) Flat Washer, 1/4", ST/ST 18-8	HDW06299
25D	(1) Nylon Locking Nut, 1/4"-20, ST/ST 18-8	HDW05851
26	Bearing, 3/4"	TGS15532

VBS19310 - AUGER DRIVE ASSEMBLY COMPONENTS		
30	Trough Weldment	VBS19320
31	Rear Cover, Trough Weldment	VBS19437
31A	Includes: (1) Rear Cover	VBS19374
31B	(2) Hex Head Self Drilling Screw, 10-20 X 1/2", ST/ST 18-8	HDW19383
32	Auger Cover, Trough Weldment	VBS19438
32A	Includes: (1) Auger Cover	HDW19391
32B	(4) Hex Head Self Drilling Screw, 10-20 X 1/2", ST/ST 18-8	HDW19383
33	Bearing, 3/4"	TGS15532
34	End Shaft, 3/4"	VBS19348
35	Auger and Hardware	VBS19436
35A	Includes: (1) Shaftless Auger Weldment, 4" OD X 4" Pitch	VBS19330
35B	(2) Hex Head Cap Screw, 5/16"-18 X 2-1/2", ST/ST 18-8	HDW19386
35C	(4) Flat Washer, 5/16", ST/ST 18-8	HDW14535
35D	(2) Nylon Locking Nut, 5/16"-18, ST/ST 18-8	HDW14557
36	Trough End Plate	VBS19389
37	Shaft, Feed Motor	VBS19350
38	Parallel Key, Feed Motor	MSC15592
39	Feed Motor Mount	VBS19325
40	Gearmotor Right Angle and Hardware	VBS19439
40A	Includes: (1) Gearmotor	TGS15587
40B	(4) Hex Head Cap Screw, M6-1.25 X 10 mm, ST/ST 18-8	HDW19368
40C	(4) Lock Washer, M6, ST/ST 18-8	HDW19372



VBS19440 - INVERTED V KIT COMPONENTS		
50	Inverted V Weldment	VBS19365
51	Front Bracket	VBS19364
52	Back Bracket	VBS19366
53	Fastener Kit, Inverted V	HDW19441
53A	Includes: (4) Hex Head Cap Screw, 3/8"-16 X 2-1/2", ST/ST 18-8	HDW05849
53B	(12) Nylon Locking Nut, 3/8"-16, ST/ST 18-8	HDW05854
53C	(8) Flat Washer, 15/32" ID X 1-1/4" OD, ST/ST 18-8	HDW19385
53D	(16) Flat Washer, 3/8", ST/ST 18-8	HDW05859
53E	(4) Hex Head Cap Screw, 3/8"-16 X 1", ST/ST 18-8	HDW05853
53F	(4) Hex Head Cap Screw, 3/8"-16 X 1-3/4", ST/ST 18-8	HDW14433

VBS19390 - TIE-DOWN KIT COMPONENTS		
60	Ratchet Strap (4)	MSC19378
61	D-Ring (4)	VBS14549
62	Fastener Kit, Tie-Down Kit	HDW19442
62A	Includes: (8) Nylon Locking Nut, 3/8"-16, ST/ST 18-8	HDW05854
62B	(8) Flat Washer, 3/8", ST/ST 18-8	HDW05859
62C	(8) Hex Head Cap Screw, 3/8"-16 X 1-1/2", ST/ST 18-8	HDW05995
62D	(8) Flat Washer, 7/16" ID X 1" OD X 3/16" Thick, ST/ST 18-8	HDW19443

VBS19445 - SINGLE VIBRATOR KIT COMPONENTS		
70	Vibrator (80 lb)	MSC14279
71	Backer Plate (2)	VBS19426
72	Fastener Kit, Vibrator	HDW19449
72A	Includes: (4) Hex Head Cap Screw, 3/8"-16 X 3", ST/ST 18-8	HDW14558
72B	(4) Flat Washer, 3/8", ST/ST 18-8	HDW05859
72C	(4) Nylon Locking Nut, 3/8"-16, ST/ST 18-8	HDW05854

VBS19360 - SPREADER WIRING & MOTOR CONTROL		
80	Harness - Vehicle Side	MSC19315
81	Motor Control	MSC19375
82	Toggle Switch Bracket and Decal	VBS19444
82A	Includes: (1) Toggle Switch Bracket	VBS19392
82B	(1) Toggle Switch Bracket Decal	MSC19405
83	Toggle Switch and Switch Boot	MSC12271
83A	Includes: (1) Toggle Switch	MSC12244
83B	(1) Toggle Switch Boot	MSC12265
84	Thumb Screw and Rubber Washer	VBS19446
84A	Includes: (1) Thumb Screw	MSC19379
84B	(1) Rubber Washer, 0.170" ID X 0.5" OD	HDW19397
85	Dust Caps - Spreader Side	MSC19447
85A	Includes: (1) Dust Cap, 4-Pin, Spreader Side	MSC19407
85B	(1) Dust Cap, 2-Pin, Spreader Side	TGS15604
85C	(1) Dust Cap, Power/Ground, Spreader Side	MSC03721
86	Dust Caps - Vehicle Side	MSC19448
86A	Includes: (1) Dust Cap, 4-Pin, Vehicle Side	MSC19406
86B	(1) Dust Cap, 2-Pin, Vehicle Side	TGS15605
86C	(1) Dust Cap, Power/Ground, Vehicle Side	MSC03721
87	Cable Ties (15 Count)	MSC04088

HARDWARE		
100	Hex Head Cap Screw, 3/8"-16 X 5/8", ST/ST 18-8	HDW19428
101	Lock Washer, 3/8", ST/ST 18-8	HDW14439
102	Flat Washer, 3/8", ST/ST 18-8	HDW05859
103	Lag Screw, 5/16" X 1", ST/ST 18-8	HDW18316
104	Flat Washer, 5/16", 5/32" Thick, ST/ST 18-8	HDW19425
105	Wire Clamp	HDW05631
106	Hex Head Cap Screw, 3/8"-16 X 1-1/4", ST/ST 18-8	HDW14431
107	Nylon Locking Nut, 3/8"-16, ST/ST 18-8	HDW05854
108	Hex Head Cap Screw, 5/16"-18 X 5/8", ST/ST 18-8	HDW19427
109	Lock Washer, 5/16", ST/ST 18-8	HDW14536
110	Flat Washer, 5/16", ST/ST 18-8	HDW14535
111	Socket Head Cap Screw, 1/4"-20 X 2", ST/ST 18-8	HDW10778
112	Nylon Locking Nut, 1/4"-20, ST/ST 18-8	HDW05851
113	Nylon Locking Nut, #10-32, ST/ST 18-8	HDW05856
114	Hex Head Cap Screw, 5/16"-18 X 3/4", ST/ST 18-8	HDW19316
115	Nylon Locking Nut, 5/16"-18, ST/ST 18-8	HDW14557
116	Hex Head Cap Screw, 5/16"-18 X 1/2", ST/ST 18-8	HDW14546

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This product is covered under one or more of the following patents:
2,137,853 4,074,448 4,658,519 5,568,694 6,035,944 6,108,946 6,134,814 6,170,178
Other Patents Pending