



78318, 78321, 78324 Hopper Spreader Components

**Tornado™ Hopper Spreader
24V DC**

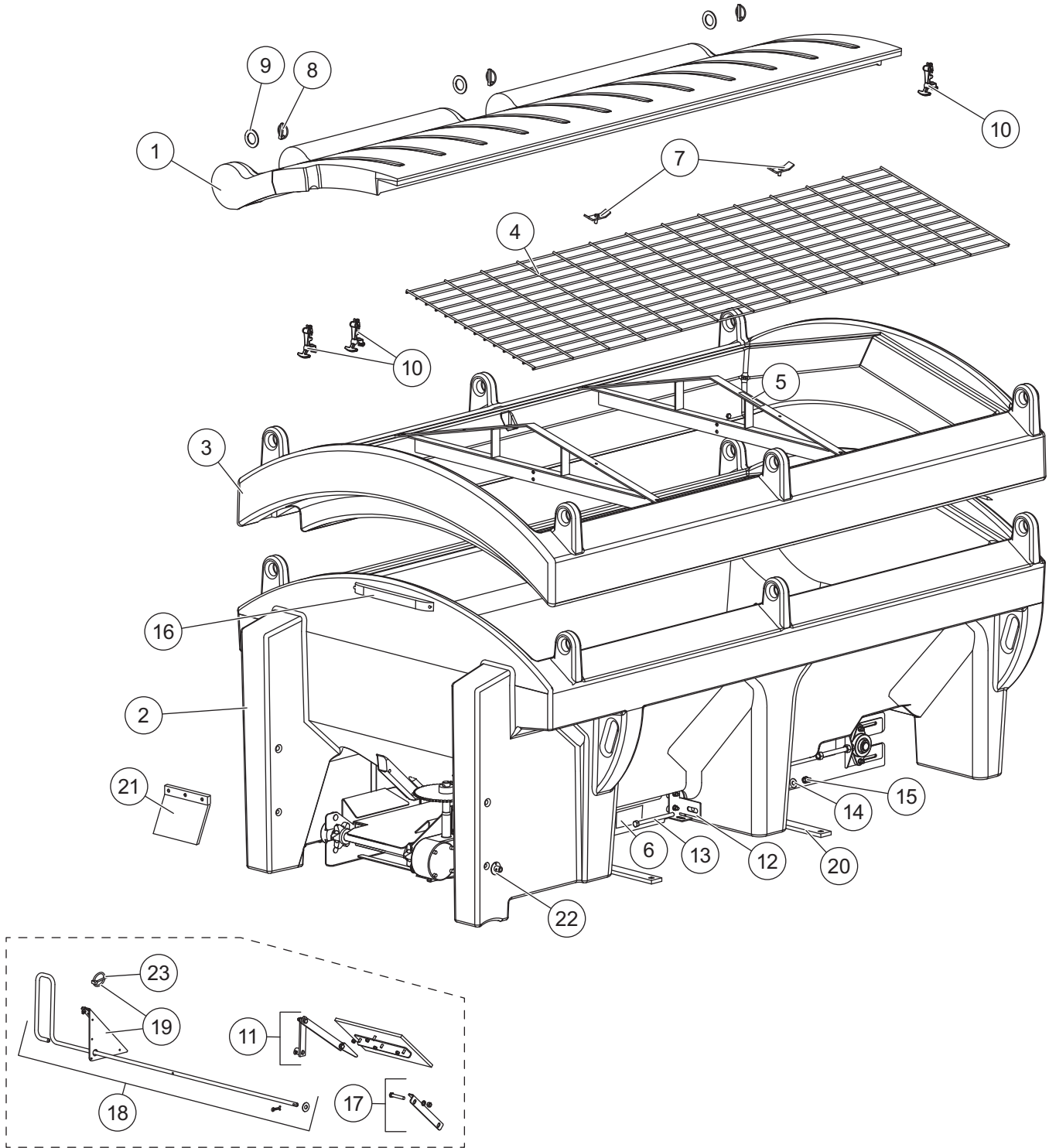
Parts List



This Parts List is for WESTERN® Tornado hopper spreaders
with serial numbers beginning with 120927 and higher.

Tornado™ HOPPER SPREADER

HOPPER COMPONENTS

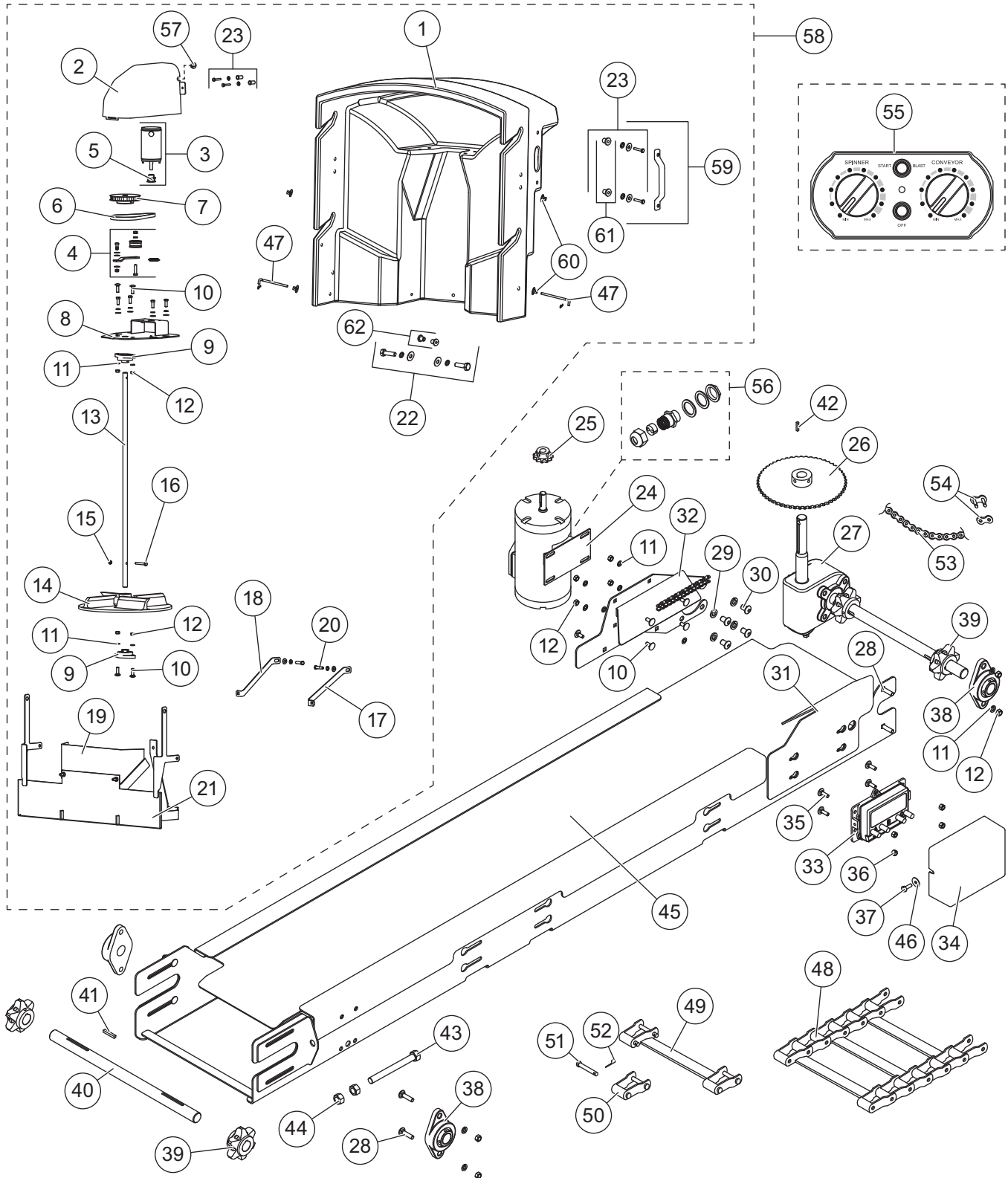


Tornado™ HOPPER SPREADER

Hopper Components							
Item	Part	Qty	Description	Item	Part	Qty	Description
1	78018	1	Poly Hopper Lid, 7' (DS)	ns	78133	3	Hopper Mounting Bracket (DS)
	78019	1	Poly Hopper Lid, 8' (DS)	13	78203	4	1/2-13 x 7-1/2 Hex Cap Screw SS
ns	78020	1	Poly Hopper Lid, 7' (PS)	14	68109	4	1/2 Flat Washer SS
	78021	1	Poly Hopper Lid, 8' (PS)	15	95834	4	1/2-13 Hex Locknut SS
2	78009	1	Poly Hopper Body, 7'	ns	90375	8	3/8-16 x 1 Carriage Bolt SS
	78012	1	Poly Hopper Body, 8'	ns	91282	8	3/8 Lock Washer SS
3	78226	1	Poly Hopper, 8' Collar	ns	91431	8	3/8-16 Hex Nut SS
4	78115	2	Top Screen, 7' (Painted)	16	78048	1	CHMSL Kit (w/fasteners)
	78116	2	Top Screen, 8' (Painted)	17	78083	2	Feed Gate Guide (1) w/Fasteners Kit (incl. 94495 [2], 78047, 91350 [2])
5	78279	2	Adjustable Top Screen Brace w/Label (67272) Poly Hopper	18	78094	1	Feed Gate Handle Kit (incl. item 14, 78029, 90601 [2])
6	68584	2	Label – Warning/Caution, Spreaders	19	78098	1	Feed Gate Detent Bracket (incl. item 23, 78028 w/fasteners)
7	96038	4	Wing Bolt	ns	66438	4	3/8-16 x 1-1/2 Hex Cap Screw
8	93010	6	Linchpin	20	78109	2	Mounting Bar (incl. items 14 [2], 15 [2], 78056, 90380 [2])
9	78097	6	Washer 2.5 OD x 1.53 ID SS	ns	78242	1	Poly Hopper Collar Hardware Kit
10	65224	3	Strap, Rubber Hold-Down Assembly	21	78177	1	Sprocket Shield Kit
ns	61246	1	Cable Boot	22	78262	2	Chute Attachment Sleeve Kit
ns	8289	1	Boot Bracket	23	93042	1	3/16 Linchpin
ns	96375	1	3/8 x 1 Sheet Metal Screw				
11	78118	1	Feed Gate Assembly Kit Poly Hopper (incl. 78093, 90601)				
12	78119	3	Hopper Mounting Bracket (PS)				
ns = not shown				SS = Stainless Steel			

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DRIVE COMPONENTS



Tornado™ HOPPER SPREADER

Drive Components							
Item	Part	Qty	Description	Item	Part	Qty	Description
1	78022	1	Chute Cover	40	94351	1	Idler Shaft
2	78287	1	Chute Motor Cover	41	95076	4	0.25 x 2.75 Machine Key
3	79063	1	Motor 24V DC 1/3 hp (incl. item 5)	42	65174	1	0.25 x 1.5 Machine Key
4	78298	1	Idler Kit	43	65609	2	5/8-11 x 6 Take-Up Bolt SS
5	93101	1	10-Tooth Cogged Belt Pulley	44	91435	4	5/8-11 Hex Nut
6	78285	1	Gear Belt	45	78192	1	Sill, 7'
7	76796	1	40-Tooth Cogged Belt Pulley 3/4 Bore		78193	1	Sill, 8'
8	78297	1	Chute Motor Base Plate	46	67155	2	5/16 Flat Washer SS
9	96167	2	Pillow Block Bearing 3/4 Bore	47	78031	1	Chute Attachment Pin Bag (pkg of 2)
10	90375	28	3/8-16 x 1 Carriage Bolt SS	48	78076	1	Pintle Chain, 99 Links
11	91282	18	3/8 Lock Washer SS		94898	1	Pintle Chain, 108 Links
12	91431	7	3/8-16 Hex Nut SS	49	68492	AR	Conveyor Repair Bar w/Pins
13	78283	1	Spinner Shaft	50	68475	AR	Conveyor Repair Link w/Pins
14	94424	1	Spinner Poly	51	41743	AR	Conveyor Chain Pin, w/Cotter
15	91430	1	5/16-18 Hex Nut SS	52	91897	AR	3/32 x 1/2 Cotter Pin
16	94495	1	5/16-18 x 2-1/4 Hex Cap Screw SS	53	78075	1	#40 Chain w/Master Link
17	78301	1	Brace (DS)	54	95894	AR	#40 Chain Master Link
18	78302	1	Brace (PS)	55	79039	1	Cab Control w/Adapter
19	78294	1	Deflector	56	78201	1	Seal Kit
20	90376	5	3/8-16 x 3/4 Hex Cap Screw SS	57	66130	1	Grommet
21	78130	1	Spinner Guard	58	79060	1	Full Chute Assembly
22	78268	1	3/8 Well Nut Fastener Kit	59	78247	2	Chute Handle Kit
23	78270	1	1/4 Well Nut Fastener Kit	60	78262	4	Chute Attachment Sleeve Kit
24	79065	1	Motor 24V DC 1/2 hp	61	78269	1	1/4 Well Nut (pkg of 2)
25	95777	1	Sprocket, #40 x 11T x 5/8	62	78267	1	3/8 Well Nut (pkg of 2)
26	78057	1	Sprocket, #40 x 55T x 1	ns	78199	1	CHMSL Harness Kit
27	95567	1	Gear Case 20:1	ns	29217	1	Vehicle Power Cable
28	68345	10	3/8-16 x 1-1/2 Carriage Bolt SS	ns	48808	1	Spreader Power Cable
29	91284	4	1/2 Spring Lock Washer SS	ns	28586	1	Vehicle-Side Control Harness
30	68360	4	1/2-13 x 3/4 Button Cap Screw	ns	78103	1	Wiring – Module to Motor
31	78131	1	Chain Guard (DS Rear)	ns	78104	1	Wiring – Module to Spinner Connector
32	78132	1	Chain Guard (PS Rear)	ns	78105	1	Wiring – Spinner Connector to Spinner Motor
33	79041	1	Control Module – Dual Motor				
34	78108	1	Module Cover	ns	95836	1	Fuse, 100A
35	90556	4	5/16-18 x 1 Carriage Bolt	ns	95837	1	Fuse Holder
36	91350	4	5/16-18 Hex Locknut GB SS	ns	22511K	1	22" Battery Cable
37	90381	2	1/4-20 x 3/4 Hex Cap Screw SS	ns	78246	1	Control Bracket Kit
38	94536	3	1-1/8 Bearing, 2-Bolt Flange	ns	61548K	1	Plug Cover Kit
39	65909	4	Drive Sprocket Machining 6T	ns	78266	1	Chain Wiper Kit
Accessories							
ns	78150	1	Inverted V Kit, 7' Models	ns	78120	1	Inverted V Kit, 8' Models
ns = not shown				SS = Stainless Steel			
				AR = As Required			
				G = Grade			

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Western Products
PO Box 245038
Milwaukee, WI 53224-9538
www.westernplows.com

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