

PULLTARPS

A Safe Fleet Brand



PARTS SCHEMATICS

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PULLTARPS PARTS SCHEMATICS

Simply The Best

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SAFE FLEET
Driving Safety Forward™



PARTS SCHEMATICS

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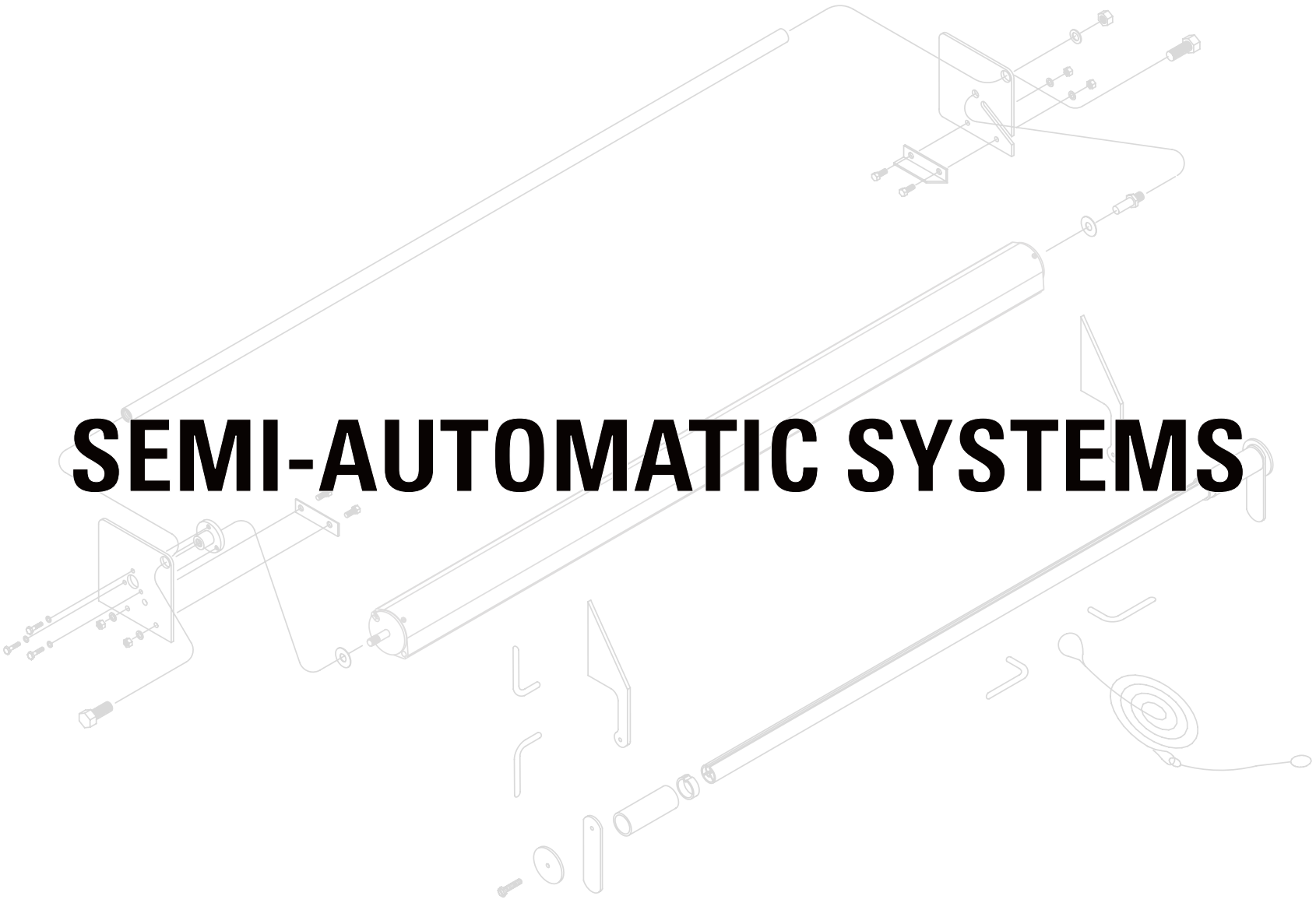
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SEMI-AUTOMATIC SYSTEMS

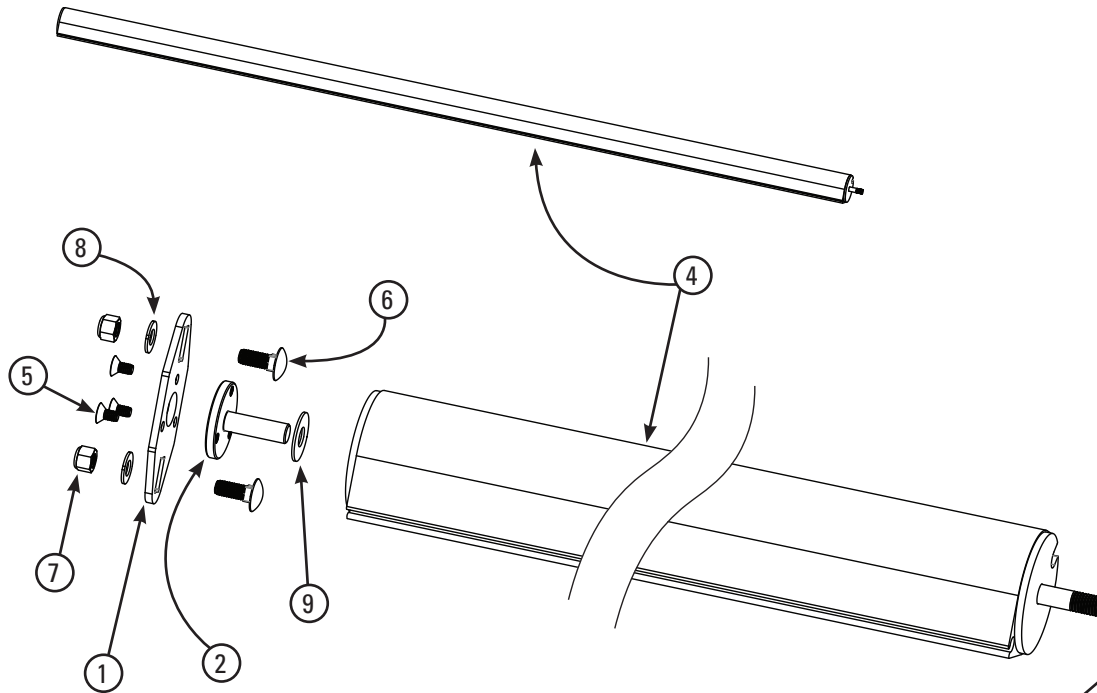




PARTS SCHEMATICS

Semi-Automatic Systems

Core (Semi-Automatic) #185-3017 & 531-1850 (EZ-Fit) (Cut-to-Fit)

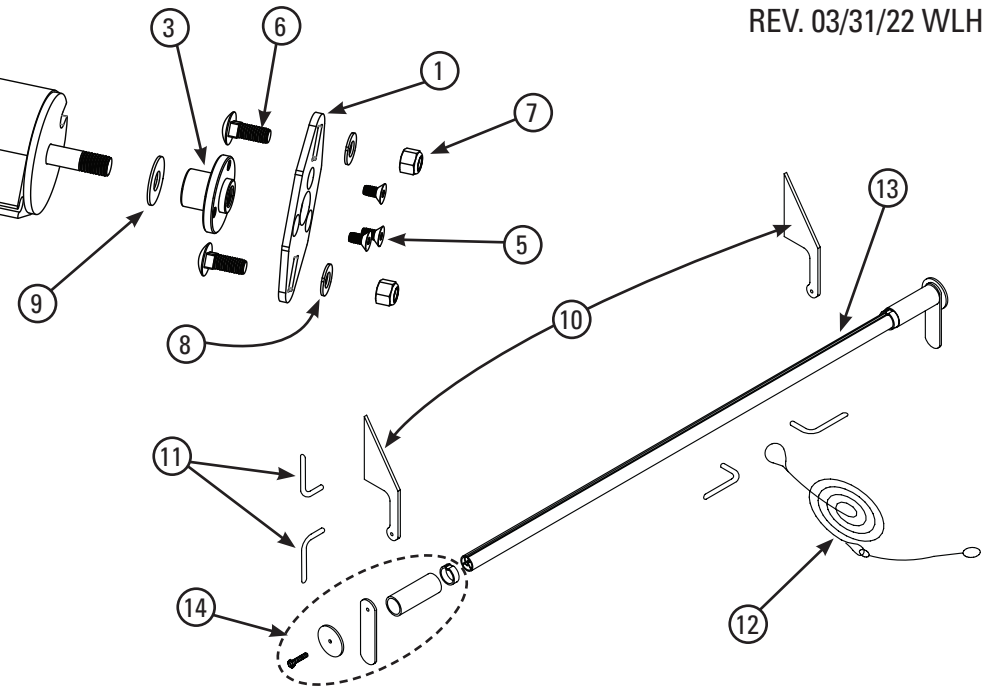


ITEM	PART #	DESCRIPTION	QTY
1	501-0293	Core End Plate	2
2	501-0805	Universal Bolt in Stud	1
3	501-0820	Valew Spring Shaft Anchor	1
4	501-1379	EZ-Measure Rollertube	1
5	503-2521	1/4-20 x 1/2 FH Socket	6
6	503-3720	3/8-16x1 CGE Bolt	4
7	504-3702	Nut, 3/8-16 Hex Nut	4
8	505-2502	1/4" USS Washer 5/16"	4
9	505-5002	Washer Nylon .51D X	2

REV. 03/31/22 WLH

Pullrod Hardware

ITEM	PART #	DESCRIPTION	QTY
10	501-0301	Tarp Return Ramps (Steel)	2
--	501-0302	Tarp Return Ramps (Alum.)	2
11	501-0621	Rope Storage Kits (4 Steel Hooks)	1
--	501-0608	Rope Storage Kits (4 Alum. Hooks)	1
12	517-10XX	Pull Rope (20, 25, 30, 35, 40, 50')	1
13	Determined by Length	Pullrod (85, 91, 93, 96, 100, 105" Lengths)	1
14	501-0612	Pullrod Hardware Kit	1





PARTS SCHEMATICS

Semi-Automatic Systems

Open 6000M #101-0215

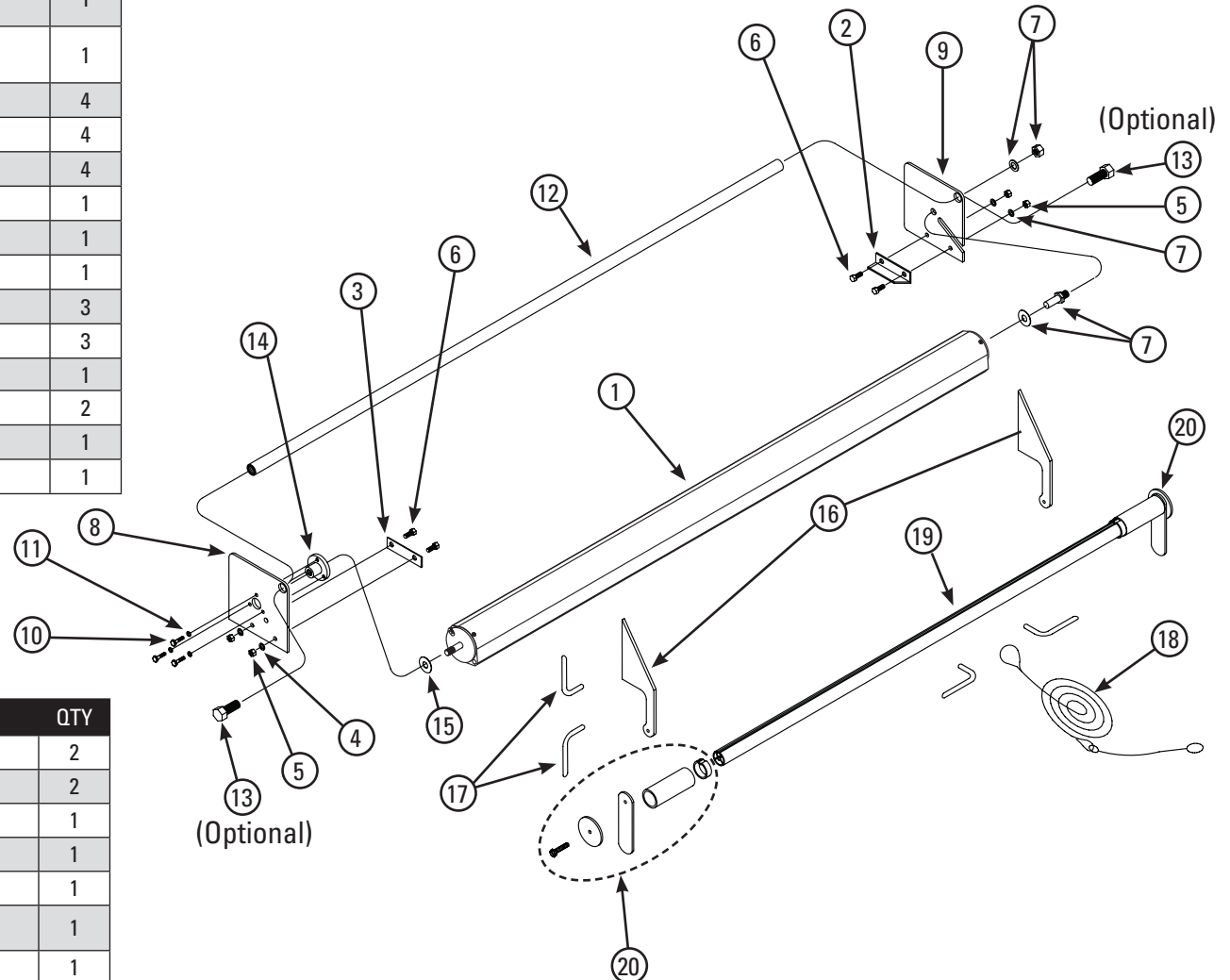
(Widths of 80, 84, 87, 89, 93, 96, 100")

ITEM	PART #	DESCRIPTION	QTY
1	501-13XX	Roller Tube Assy 80,84,87,89,93,96,100"	1
2	501-152X	Open System Mount Brkt. (Specify Steel or Aluminum - Left)	1
3	501-152X	Open System Mount Brkt. (Specify Steel or Aluminum - Right)	1
4	505-2502	1/4" Flat Washer USS	4
5	504-3103	5/16"-18 Nyloc Nut	4
6	503-3104	5/16"-18 x 3/4"lg. Carriage Bolt	4
7	501-0632	System End Plate Stud Kit	1
8	501-0203	6" Open End Plate, (Drvr.)	1
9	501-0204	6" Open End Plate, (Pass.)	1
10	503-2503	1/4" - 20 x 1/2"lg. HHCS Bolt	3
11	505-2503	1/4" Lock Washer	3
12	501-980X	Spacer Rod 7/8" (Optional)	1
13	503-7501	3/4" - 10 x 1"lg. HHCS Bolt (Optional)	2
14	501-0804	Steel Spring Shaft Anchor	1
15	505-5002	Nylon Washer	1

REV. 10/25/21 WLH

Pullrod Hardware

ITEM	PART #	DESCRIPTION	QTY
16	501-0301	Tarp Return Ramps (Steel)	2
--	501-0302	Tarp Return Ramps (Alum.)	2
17	501-0621	Rope Storage Kits (4 Steel Hooks)	1
--	501-0608	Rope Storage Kits (4 Alum. Hooks)	1
18	517-10XX	Pull Rope (20, 25, 30, 35, 40, 50')	1
19	Determined by Length	Pullrod (85, 91, 93, 96, 100, 105" Lengths)	1
20	501-0612	Pullrod Hardware Kit	1





PARTS SCHEMATICS

Semi-Automatic Systems

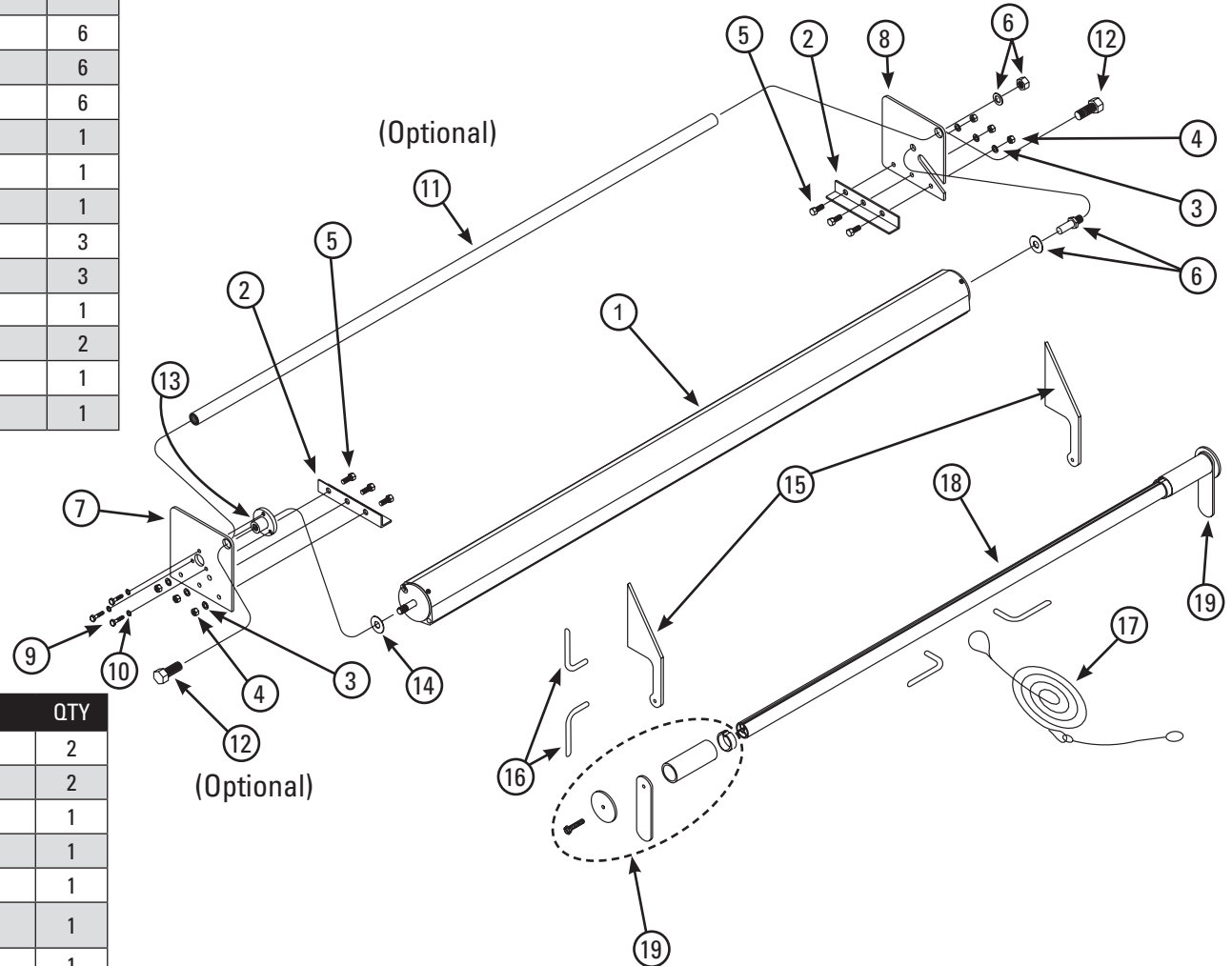
ITEM	PART #	DESCRIPTION	QTY
1	501-13XX	Roller Tube Assy 80,84,87,89,93,96,100"	1
2	501-152X	Open System Mount Brkt. (Specify Steel or Aluminum)	2
3	505-2502	1/4" Flat Washer USS	6
4	504-3103	5/16"-18 Nyloc Nut	6
5	503-3104	5/16"-18 x 3/4"lg. Carriage Bolt	6
6	501-0632	System End Plate Stud Kit	1
7	501-0219	9" Open End Plate, (Drvr.)	1
8	501-0220	9" Open End Plate, (Pass.)	1
9	503-2503	1/4" - 20 x 1/2"lg. HHCS Bolt	3
10	505-2503	1/4" Lock Washer	3
11	501-980X	Spacer Rod 7/8" (Optional)	1
12	503-7501	3/4" - 10 x 1"lg. HHCS Bolt (Optional)	2
13	501-0804	Steel Spring Shaft Anchor	1
14	505-5002	Nylon Washer	1

REV. 10/25/21 WLH

Pullrod Hardware

ITEM	PART #	DESCRIPTION	QTY
15	501-0301	Tarp Return Ramps (Steel)	2
--	501-0302	Tarp Return Ramps (Alum.)	2
16	501-0621	Rope Storage Kits (4 Steel Hooks)	1
--	501-0608	Rope Storage Kits (4 Alum. Hooks)	1
17	517-10XX	Pull Rope (20, 25, 30, 35, 40, 50')	1
18	Determined by Length	Pullrod (85, 91, 93, 96, 100, 105" Lengths)	1
19	501-0612	Pullrod Hardware Kit	1

Open 9000M #105-0215
(Widths of 80, 84, 87, 89, 93, 96, 100")
(Optional)





PARTS SCHEMATICS

Semi-Automatic Systems

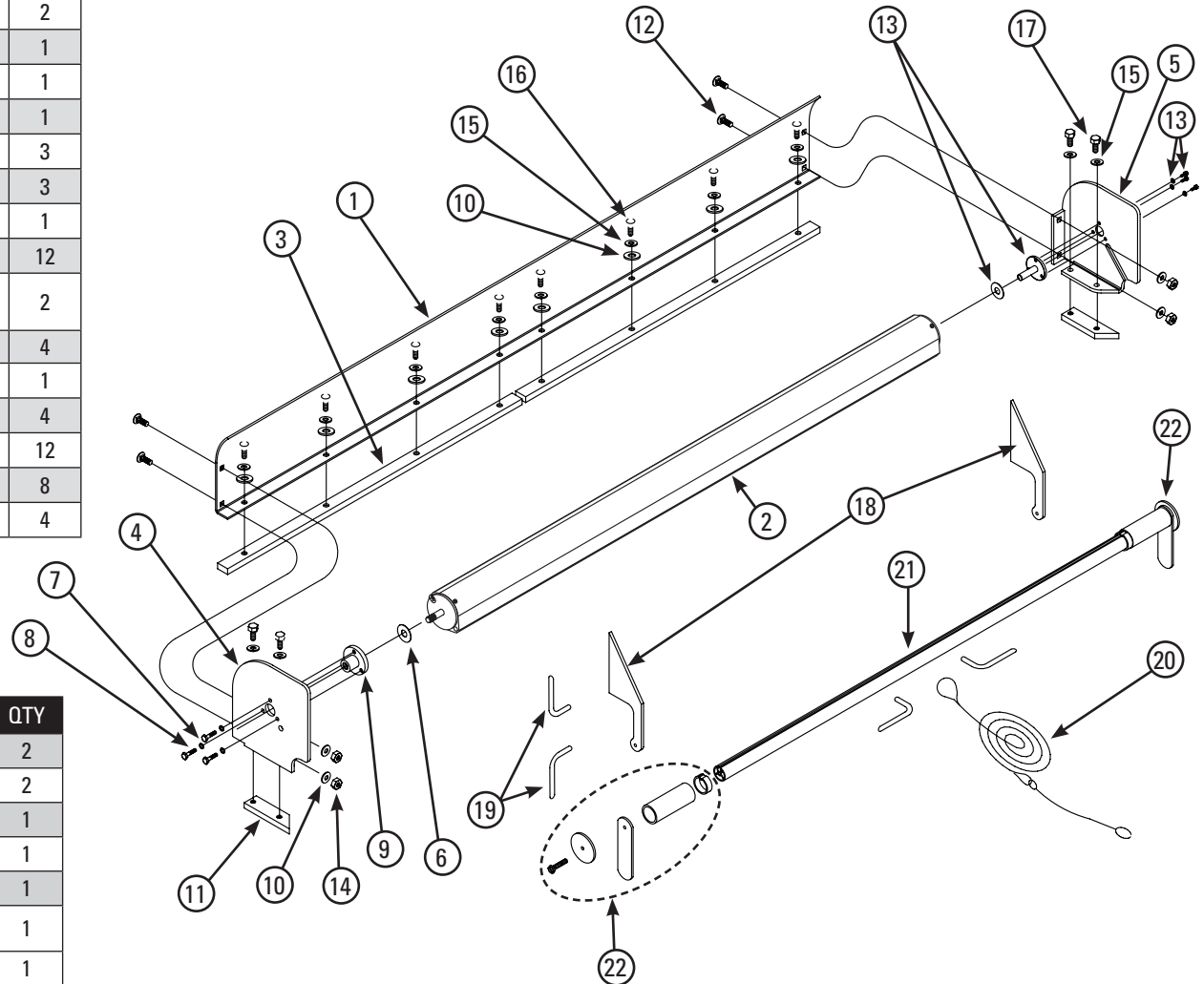
Aluminator™ 7000M #103-0215 (Widths of 80, 84, 87, 89, 93, 96, 100")

ITEM	PART #	DESCRIPTION	QTY
1	501-10XX	Alum. Wind Guard 80, 84, 87, 89, 93, 96, 100"	1
2	501-13XX	Alum. Roller Tube Assy 80,84,87,89,93,96,100"	1
3	501-15XX	Mounting Bar-Steel 40, 42, 43.5, 44.5, 46.5, 48, 50"	2
4	501-0207	7.5" Aluminum End Plate (Drvr.)	1
5	501-0208	7.5" Aluminum End Plate (Pass.)	1
6	505-5002	Nylon Washer	1
7	505-2503	1/4" Lock Washer	3
8	503-2503	1/4" - 20 x 1/2"lg. HHCS Bolt	3
9	501-0804	Steel Spring Shaft Anchor	1
10	505-2502	1/4" Flat Washer USS	12
11	501-150X	5" Mounting Bar (Specify Steel or Aluminum)	2
12	503-3104	5/16" - 18 x 3/4"lg. Carriage Bolt	4
13	501-0805	Universal Bolt In Stud Kit	1
14	504-3103	5/16" - 18 Nyloc Nut	4
15	505-3102	5/16" Lock Washer	12
16	503-3101	5/16" - 18 x 1/2"lg. HHCS Bolt	8
17	503-3102	5/16" - 18 x 1"lg. HHCS Bolt	4

REV. 10/25/21 WLH

Pullrod Hardware

ITEM	PART #	DESCRIPTION	QTY
18	501-0301	Tarp Return Ramps (Steel)	2
--	501-0302	Tarp Return Ramps (Alum.)	2
19	501-0621	Rope Storage Kits (4 Steel Hooks)	1
--	501-0608	Rope Storage Kits (4 Alum. Hooks)	1
20	517-10XX	Pull Rope (20, 25, 30, 35, 40, 50')	1
21	Determined by Length	Pullrod (85, 91, 93, 96, 100, 105" Lengths)	1
22	501-0612	Pullrod Hardware Kit	1





PARTS SCHEMATICS

Semi-Automatic Systems

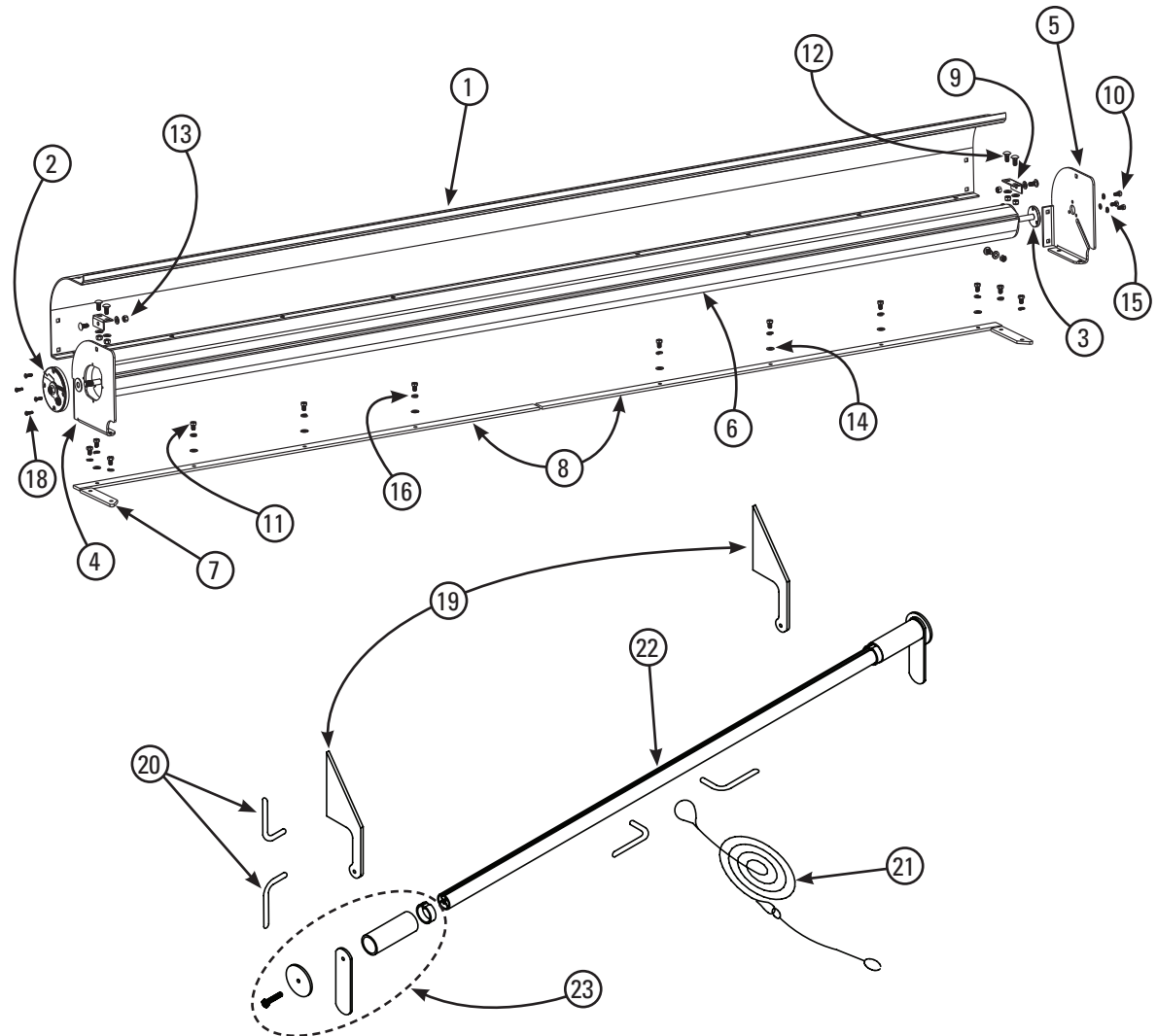
Aluminator™ 8500M #117-0215 (Widths of 80, 84, 87, 89, 93, 96, 100")

ITEM	PART #	DESCRIPTION	QTY
1	501-0181	100" Aluminum 8.5 Housing	1
2	501-0647	System End Plate Ratchet	1
3	501-0805	Universal Bolt in Stud	1
4	501-1056	8.5" Ratchet Aluminum End	1
5	501-1057	8.5" Aluminum End Plate Right	1
6	501-1307	100" Spring Roller Tube	1
7	501-1506	6" Steel Mounting Bar	2
8	501-1513	50" Mounting Bar - Steel	2
9	501-9934	Galvanized Steel Bracket	2
10	503-2503	1/4"-20 x 1/2" HHD Bolt	3
11	503-3101	5/16" - 18 x 1/2" Hex Bolt	12
12	503-3104	5/16" - 18 x 3/4" Carriage Bolt	10
13	504-3103	5/16" - 18 Nylock Nut Steel	10
14	505-2502	1/4" USS Washer 5/16"	18
15	505-2503	1/4" Lock Washer - Plated	3
16	505-3102	5/16" Lock Washer	12
17	505-5002	Washer Nylon .51D x 1.250D	2
18	506-9937	10-32 x 5/8" Philips Pan	4

REV. 10/27/21 WLH

Pullrod Hardware

ITEM	PART #	DESCRIPTION	QTY
19	501-0301	Tarp Return Ramps (Steel)	2
--	501-0302	Tarp Return Ramps (Alum.)	2
20	501-0623	Rope Storage Kits (4 Steel Hooks)	1
21	517-10XX	Pull Rope (20, 25, 30, 35, 40, 50')	1
22	Determined by Length	Pullrod (85, 91, 93, 96, 100, 105")	1
23	501-0612	Pullrod Hardware Kit	1





PARTS SCHEMATICS

Semi-Automatic Systems

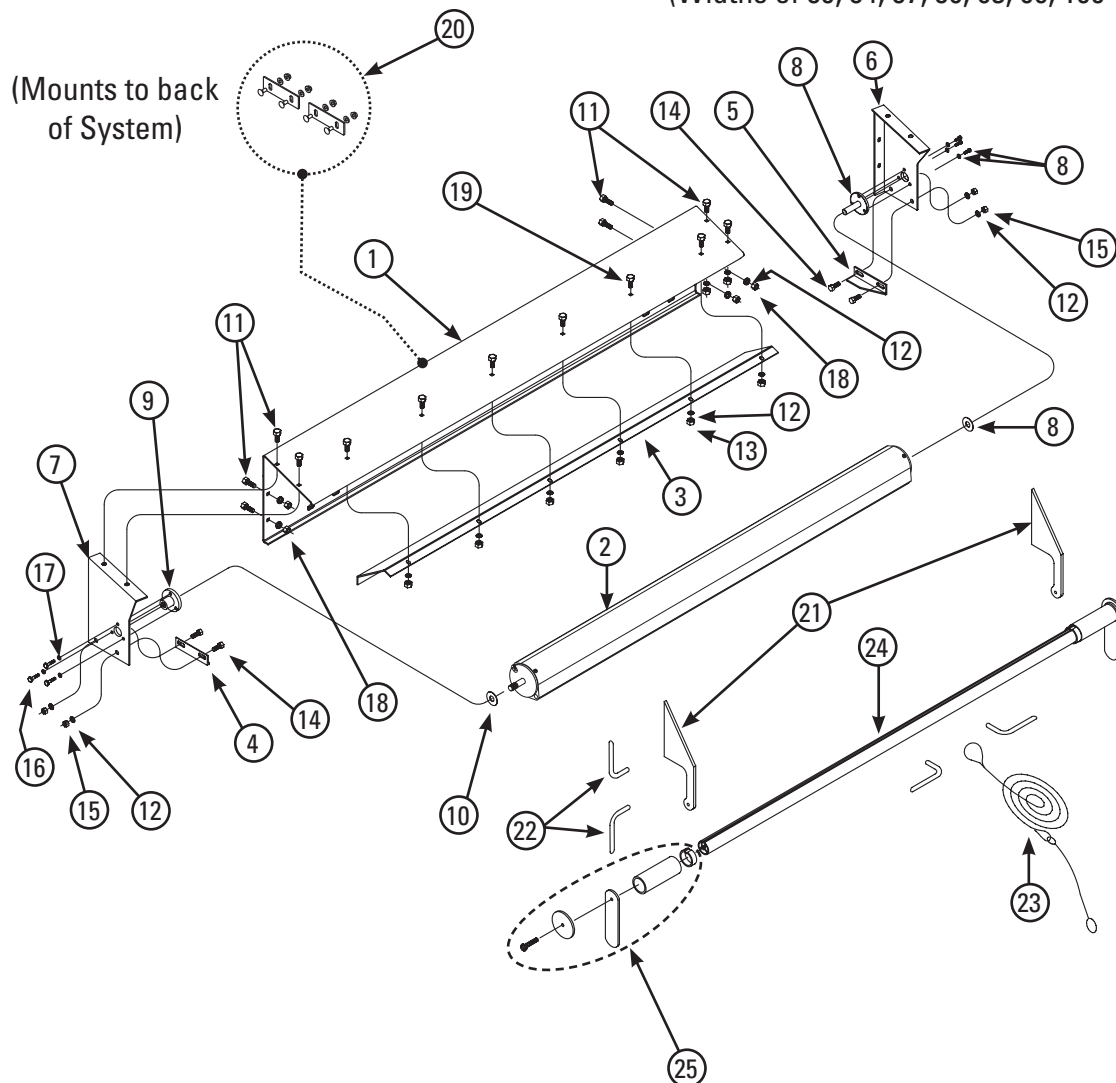
ITEM	PART #	DESCRIPTION	QTY
1	501-010X	Galv. Steel Protector Housing 80, 84, 87, 89, 93, 96, 100"	1
2	501-130X	Roller Assembly 80, 84, 87, 89, 93, 96, 100"	1
3	501-0138	48" x 5-1/2" Galv. Insert	1
4	501-152X	System Mount Bracket (Specify Steel or Aluminum - Left)	1
5	501-152X	System Mount Bracket (Specify Steel or Aluminum - Right)	1
6	501-0254	Passenger Side Plate for "N" System	1
7	501-0253	Driver Side Plate for "N" System	1
8	501-0633	Universal Bolt in Stud Kit	1
9	501-0804	Steel Spring Shaft Anchor	1
10	505-5002	Nylon Washer	1
11	503-2505	1/4" - 20 x 3/4"lg. Carriage Bolt	8
12	505-2502	1/4" Flat Washer USS	24
13	504-2506	1/4" - 20 Nyloc Nut (Thin)	12
14	503-3104	5/16" - 18 x 3/4"lg. Carriage Bolt	4
15	504-3103	5/16" - 18 Nyloc Nut	4
16	503-2503	1/4" - 20 x 1/2"lg. HHCS Bolt	3
17	505-2503	1/4" Lock Washer	3
18	504-2503	1/4" - 20 Nyloc Nut	8
19	503-2501	1/4" - 20 x 1/2"lg. Carriage Bolt	12
20	501-06XX	Steel Protector System Hardware (Specify Steel or Aluminum)	1

Pullrod Hardware

REV. 10/25/21 WLH

ITEM	PART #	DESCRIPTION	QTY
21	501-0301	Tarp Return Ramps (Steel)	2
--	501-0302	Tarp Return Ramps (Alum.)	2
22	501-0621	Rope Storage Kits (4 Steel Hooks)	1
--	501-0608	Rope Storage Kits (4 Alum. Hooks)	1
23	517-10XX	Pull Rope (20, 25, 30, 35, 40, 50')	1
24	Determined by Length	Pullrod (85, 91, 93, 96, 100, 105" Lengths)	1
25	501-0612	Pullrod Hardware Kit	1

Steel Protector™ #106-0215 (Widths of 80, 84, 87, 89, 93, 96, 100")





PARTS SCHEMATICS

Semi-Automatic Systems

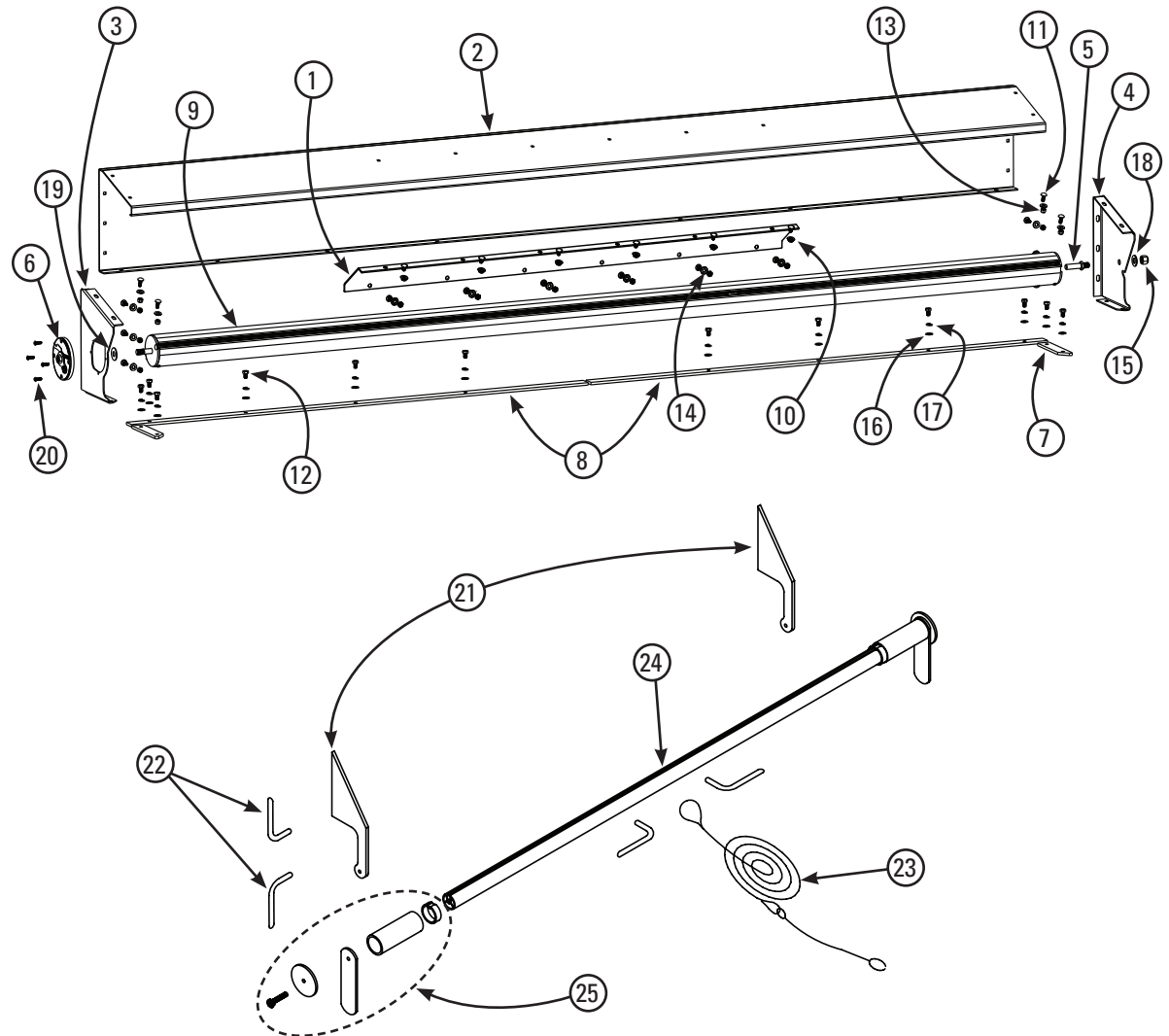
ITEM	PART #	DESCRIPTION	QTY
1	501-0138	Galvanized Insert	1
2	501-018X to 019X	Galv. Steel Protector + Housing	1
3	501-0280	Protector + Ratchet End Plate	1
4	501-0281	Protector + End Plate Passenger	1
5	501-0801	System End Plate Stud 2.4"	1
6	501-0647	System End Plate Ratchet	1
7	501-1505	6" Large Steel Mounting Bar	2
---	501-1506	6" Large Aluminum Mounting Bar	---
8	501-1520	50" Mounting Bar Aluminum	2
---	501-1513	50" Mounting Bar Steel	---
9	501-130X	Spring Roller Tube	1
10	503-2501	1/4" - 20 x 1/2" USS Carriage Bolt	12
11	503-2505	1/4" - 20 x 3/4" USS Carriage Bolt	10
12	503-3101	5/16" - 18 x 1/2" Hex Bolt	12
13	504-2503	1/4" - 20 USS Nylock Nut	10
14	504-2506	1/4" Hex Lock Nut "Thin" L/N Steel Zinc	12
15	504-5001	1/2" Crimp Nut	1
16	505-2502	1/4" USS Washer 5/16" Hole	35
17	505-3102	5/16" Lock Washer	15
18	505-5001	1/2" AN Washer 1/16" Thick	1
19	505-5002	Washer Nylon 0.5ID X	2
20	506-9937	10-31 x 5/8" Philips Pan	4

Pullrod Hardware

REV. 03/31/22 WLH

ITEM	PART #	DESCRIPTION	QTY
21	501-0301	Tarp Return Ramps (Steel)	2
--	501-0302	Tarp Return Ramps (Alum.)	2
22	501-0623	Rope Storage Kits (4 Steel Hooks)	1
23	517-10XX	Pull Rope (20, 25, 30, 35, 40, 50')	1
24	Determined by Length	Pullrod (85, 91, 93, 96, 100, 105")	1
25	501-0612	Pullrod Hardware Kit	1

Steel Protector +™ #116-0215 (Widths of 80, 84, 87, 89, 93, 96, 100")





PARTS SCHEMATICS

Semi-Automatic Systems

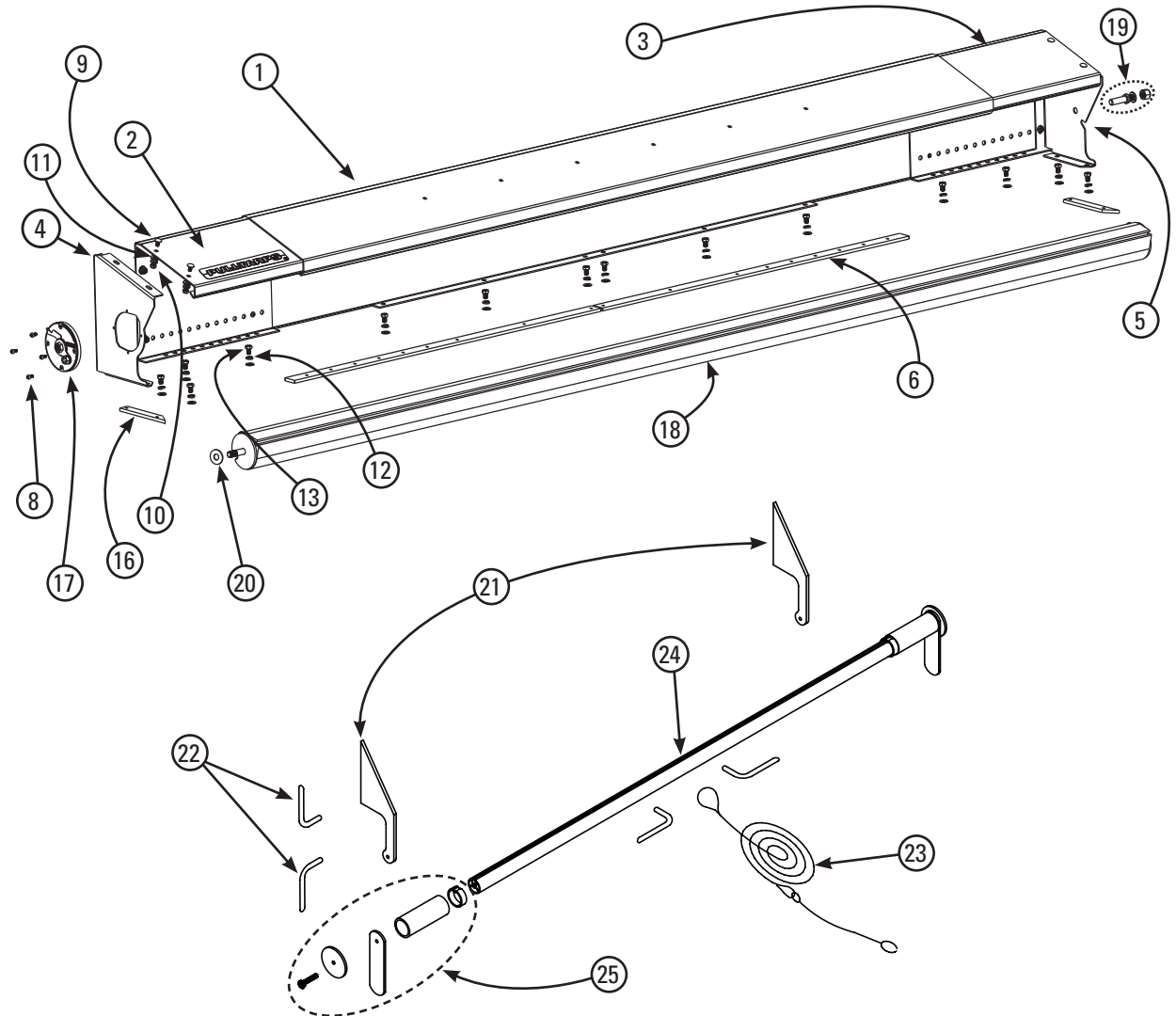
X-Pando™ (Adjustable) #116-3027, 116-3017 (Widths of 78" - 100")

ITEM	PART #	DESCRIPTION	QTY
1	501-0167	76" Telescope Steel Protector Center Hsg.	1
2	501-0168	14" Steel Protector Adj. End (Left)	1
3	501-0169	14" Steel Protector Adj. End (Right)	1
4	501-0280	Large Telescope Ratchet End Plate	1
5	501-0281	Large Telescope End Plate Pass.	1
6	501-155X	51" Mounting Bar (Specify Steel or Aluminum)	2
7	501-0138	Galvanized Insert (Not Shown)	1
8	506-9905	10 - 32 x 1/2" Phillips Pan Head Screw	4
9	503-2501	1/4" - 20 x 1/2" USS Carriage Bolt	22
10	504-2506	1/4" Hex Lock Nut "Thin"	22
11	505-2502	1/4" USS Washer 5/16" Hole	22
12	505-3102	5/16" Lock Washer	14
13	503-3101	5/16" - 18 x 1/2" Hex Bolt	14
14	503-2502	1/4" - 20 x 1/2" SS Button HD Screw (Not Shown)	4
15	504-2504	1/4" - 20 Weld Nut - Single (Not Shown)	4
16	501-150X	5" Mounting Bar (Specify Steel or Aluminum)	2
17	501-0630	System End Plate Ratchet Assembly	1
18	501-1307	100" Spring Roller Tube Assembly	1
19	501-0632	System End Plate Stud 2.4"	1
20	505-5002	Nylon Washer .51 ID x 1.25 OD x .063 Thick	2

REV. 03/31/22 WLH

Pullrod Hardware

ITEM	PART #	DESCRIPTION	QTY
21	501-0301	Tarp Return Ramps (Steel)	2
--	501-0302	Tarp Return Ramps (Alum.)	2
22	501-0621	Rope Storage Kits (4 Steel Hooks)	1
--	501-0608	Rope Storage Kits (4 Alum. Hooks)	1
23	517-10XX	Pull Rope (20, 25, 30, 35, 40, 50')	1
24	Determined by Length	Pullrod (85, 91, 93, 96, 100, 105" Lengths)	1
25	501-0612	Pullrod Hardware Kit	1





PARTS SCHEMATICS

Semi-Automatic Systems

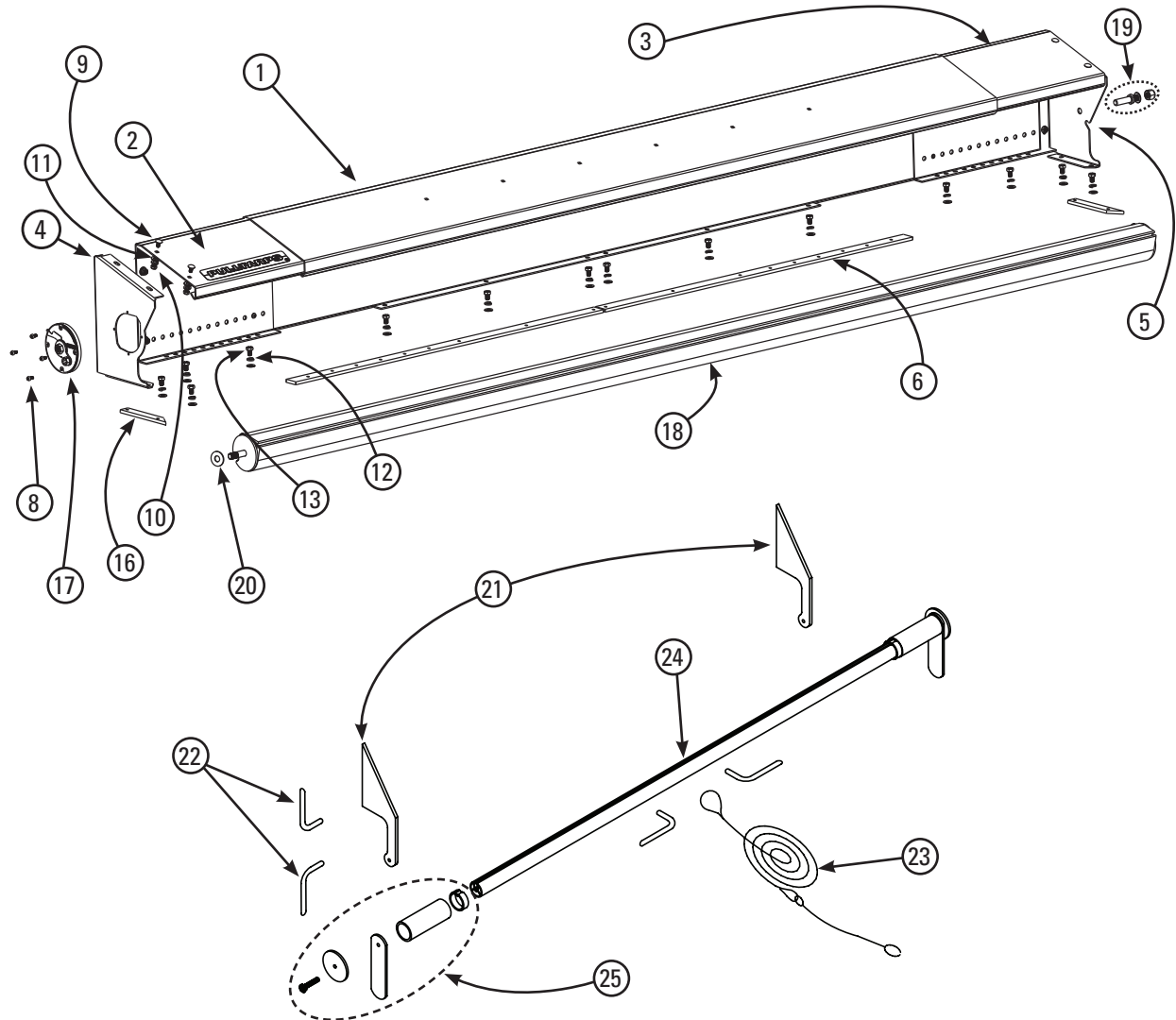
X-Pando™ (Pre-Adjusted) #116-3028, 116-3018 (Set to Size)

ITEM	PART #	DESCRIPTION	QTY
1	501-0167	76" Telescope Steel Protector Center Hsg.	1
2	501-0168	14" Steel Protector Adj. End (Left)	1
3	501-0169	14" Steel Protector Adj. End (Right)	1
4	501-0280	Large Telescope Ratchet End Plate	1
5	501-0281	Large Telescope End Plate Pass.	1
6	501-155X	51" Mounting Bar (Specify Steel or Aluminum)	2
7	501-0138	Galvanized Insert (Not Shown)	1
8	506-9905	10 - 32 x 1/2" Phillips Pan Head Screw	4
9	503-2501	1/4" - 20 x 1/2" USS Carriage Bolt	22
10	504-2506	1/4" Hex Lock Nut "Thin"	22
11	505-2502	1/4" USS Washer 5/16" Hole	22
12	505-3102	5/16" Lock Washer	14
13	503-3101	5/16" - 18 x 1/2" Hex Bolt	14
14	503-2502	1/4" - 20 x 1/2" SS Button HD Screw (Not Shown)	4
15	504-2504	1/4" - 20 Weld Nut - Single (Not Shown)	4
16	501-150X	5" Mounting Bar (Specify Steel or Aluminum)	2
17	501-0630	System End Plate Ratchet Assembly	1
18	501-13XX	Roller Tube Assembly 80, 84, 87, 89, 93, 96, 100"	1
19	501-0632	System End Plate Stud 2.4"	1
20	505-5002	Nylon Washer .51 ID x 1.25 OD x .063 Thick	2

REV. 03/31/22 WLH

Pullrod Hardware

ITEM	PART #	DESCRIPTION	QTY
21	501-0301	Tarp Return Ramps (Steel)	2
--	501-0302	Tarp Return Ramps (Alum.)	2
22	501-0621	Rope Storage Kits (4 Steel Hooks)	1
--	501-0608	Rope Storage Kits (4 Alum. Hooks)	1
23	517-10XX	Pull Rope (20, 25, 30, 35, 40, 50')	1
24	Determined by Length	Pullrod (85, 91, 93, 96, 100, 105" Lengths)	1
25	501-0612	Pullrod Hardware Kit	1





PARTS SCHEMATICS

Semi-Automatic Systems

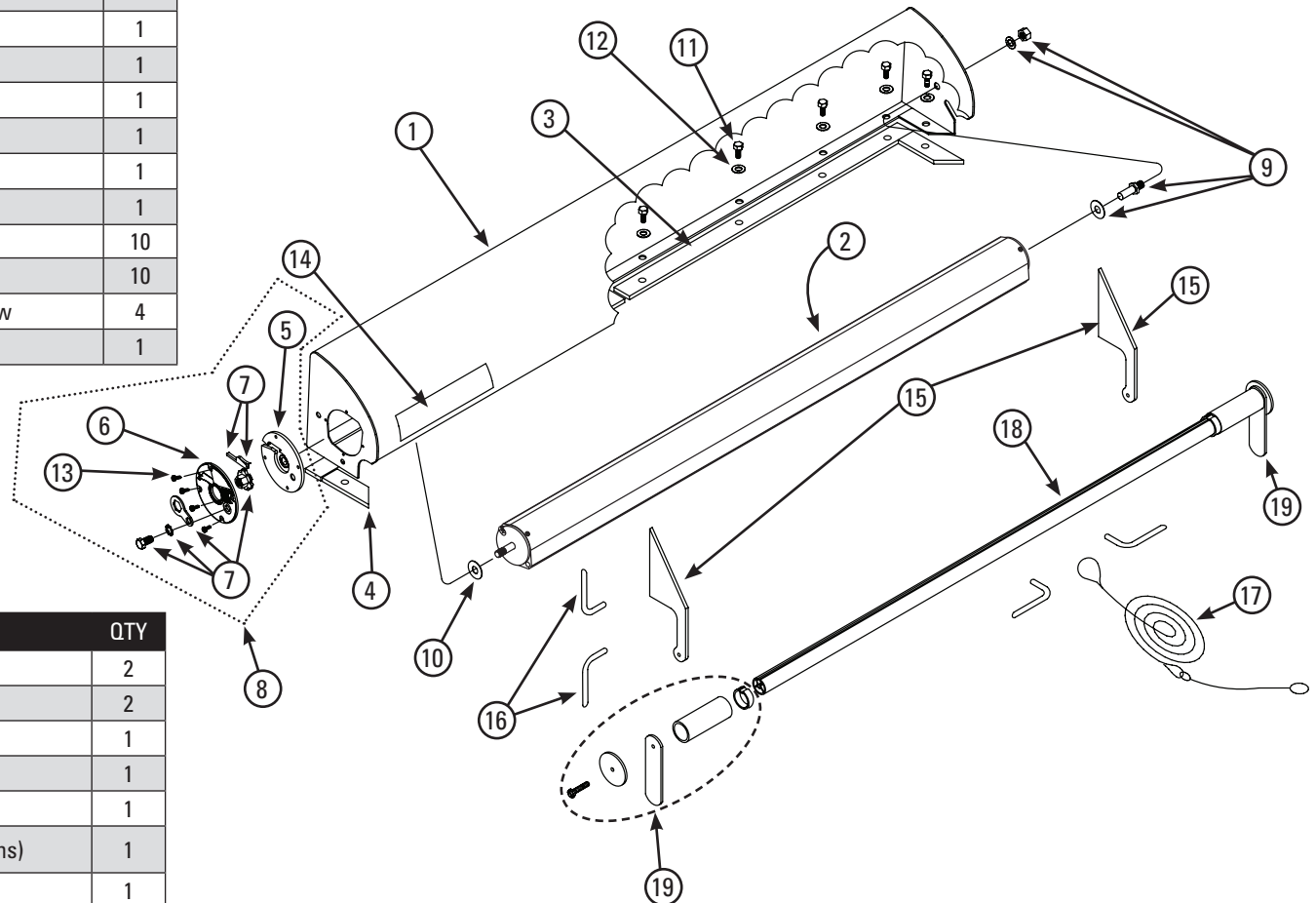
SuperShield™ 8500M #107-0215 (Widths of 80, 84, 87, 89, 93, 96, 100")

ITEM	PART #	DESCRIPTION	QTY
1	501-01XX	8.5" Super Shield Housing 80, 84, 87, 89, 93, 96, 100"	1
2	501-13XX	Roller Tube Assy 80,84,87,89,93,96,100"	1
3	501-15XX	Mounting Bar 40, 42, 43.5, 44.5, 46.5, 48, 50" (Specify Steel or Aluminum)	2
4	501-150X	Small Steel Mounting Bar (Specify Steel or Aluminum)	2
5	501-0809	Ratchet Housing	1
6	501-0806	Ratchet Cover	1
7	501-0825	Ratchet Kit	1
8	501-0630	Ratchet Assembly	1
9	501-0632	System End Plate Stud Kit	1
10	505-5002	Nylon Washer	1
11	503-3101	5/16" - 18 x 1/2"lg. HHCS Bolt	10
12	505-3102	5/16" Lock Washer	10
13	506-9905	#10 - 32 x 1/2"lg. Phillips Pan Screw	4
14	607-0061	Pulltarps Decal	1

REV. 10/25/21 WLH

Pullrod Hardware

ITEM	PART #	DESCRIPTION	QTY
15	501-0301	Tarp Return Ramps (Steel)	2
--	501-0302	Tarp Return Ramps (Alum.)	2
16	501-0621	Rope Storage Kits (4 Steel Hooks)	1
--	501-0608	Rope Storage Kits (4 Alum. Hooks)	1
17	517-10XX	Pull Rope (20, 25, 30, 35, 40, 50')	1
18	Determined by Length	Pullrod (85, 91, 93, 96, 100, 105" Lengths)	1
19	501-0612	Pullrod Hardware Kit	1





PARTS SCHEMATICS

Semi-Automatic Systems

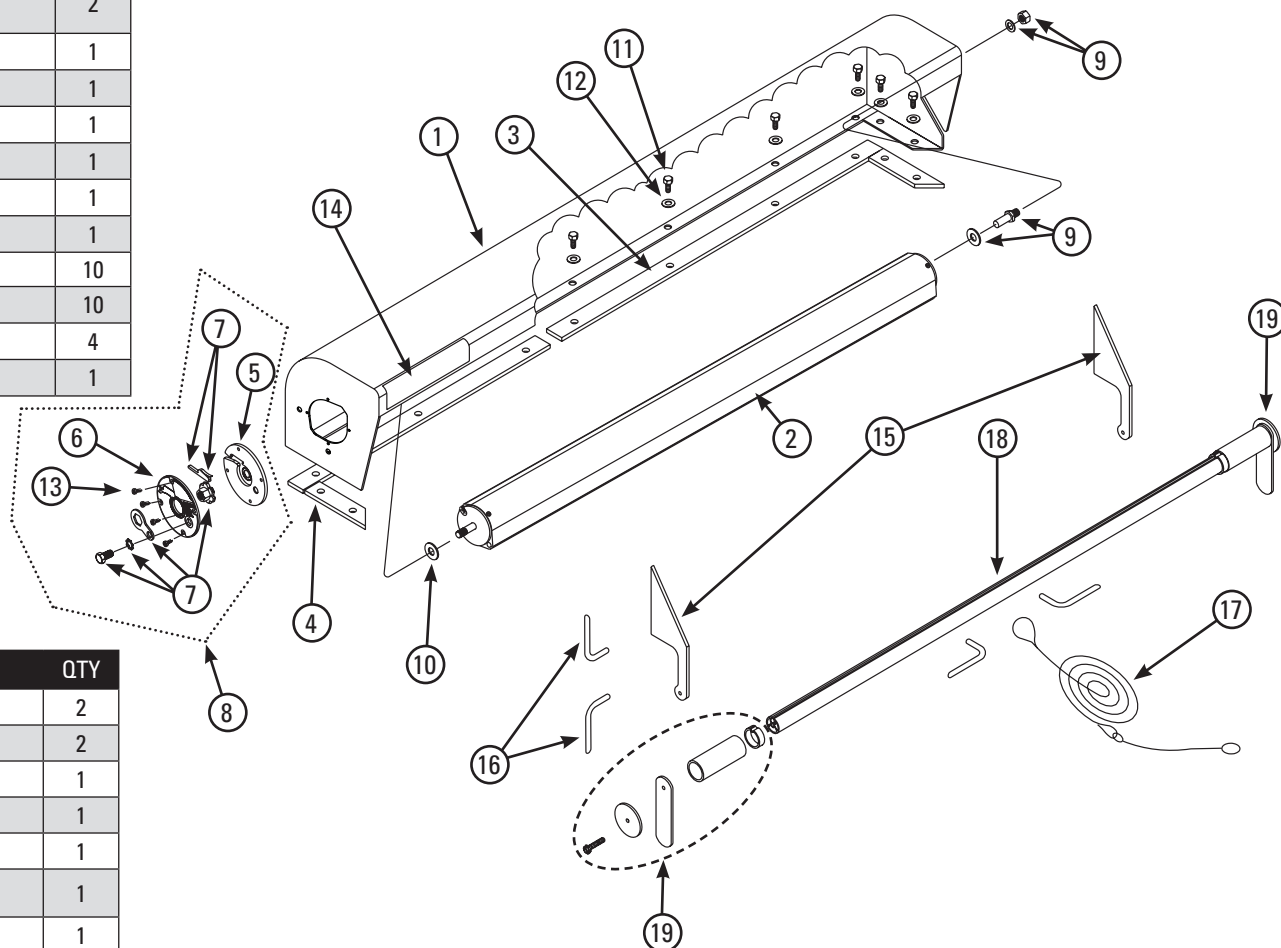
SuperShield™ 9500M #108-0215 (Widths of 80, 84, 87, 89, 93, 96, 100")

ITEM	PART #	DESCRIPTION	QTY
1	501-01XX	9.5" Super Shield Housing 80, 84, 87, 89, 93, 96, 100"	1
2	501-13XX	Roller Tube Assy 80,84,87,89,93,96,100"	1
3	501-15XX	Mounting Bar-Steel 40, 42, 43.5, 44.5, 46.5, 48, 50" (Specify Steel or Aluminum)	2
4	501-150X	6" Large Mount (Specify Steel or Aluminum)	2
5	501-0809	Ratchet Housing	1
6	501-0806	Ratchet Cover	1
7	501-0825	Ratchet Kit	1
8	501-0630	Ratchet Assembly	1
9	501-0632	System End Plate Stud Kit	1
10	505-5002	Nylon Washer	1
11	503-3101	5/16" - 18 x 1/2"lg. HHCS Bolt	10
12	505-3102	5/16" Lock Washer	10
13	506-9905	#10 - 32 x 1/2"lg. Phillips Pan Screw	4
14	607-0061	Pulltarps Decal	1

REV. 10/22/21 WLH

Pullrod Hardware

ITEM	PART #	DESCRIPTION	QTY
15	501-0301	Tarp Return Ramps (Steel)	2
--	501-0302	Tarp Return Ramps (Alum.)	2
16	501-0621	Rope Storage Kits (4 Steel Hooks)	1
--	501-0608	Rope Storage Kits (4 Alum. Hooks)	1
17	517-10XX	Pull Rope (20, 25, 30, 35, 40, 50')	1
18	Determined by Length	Pullrod (85, 91, 93, 96, 100, 105" Lengths)	1
19	501-0612	Pullrod Hardware Kit	1





PARTS SCHEMATICS

Semi-Automatic Systems

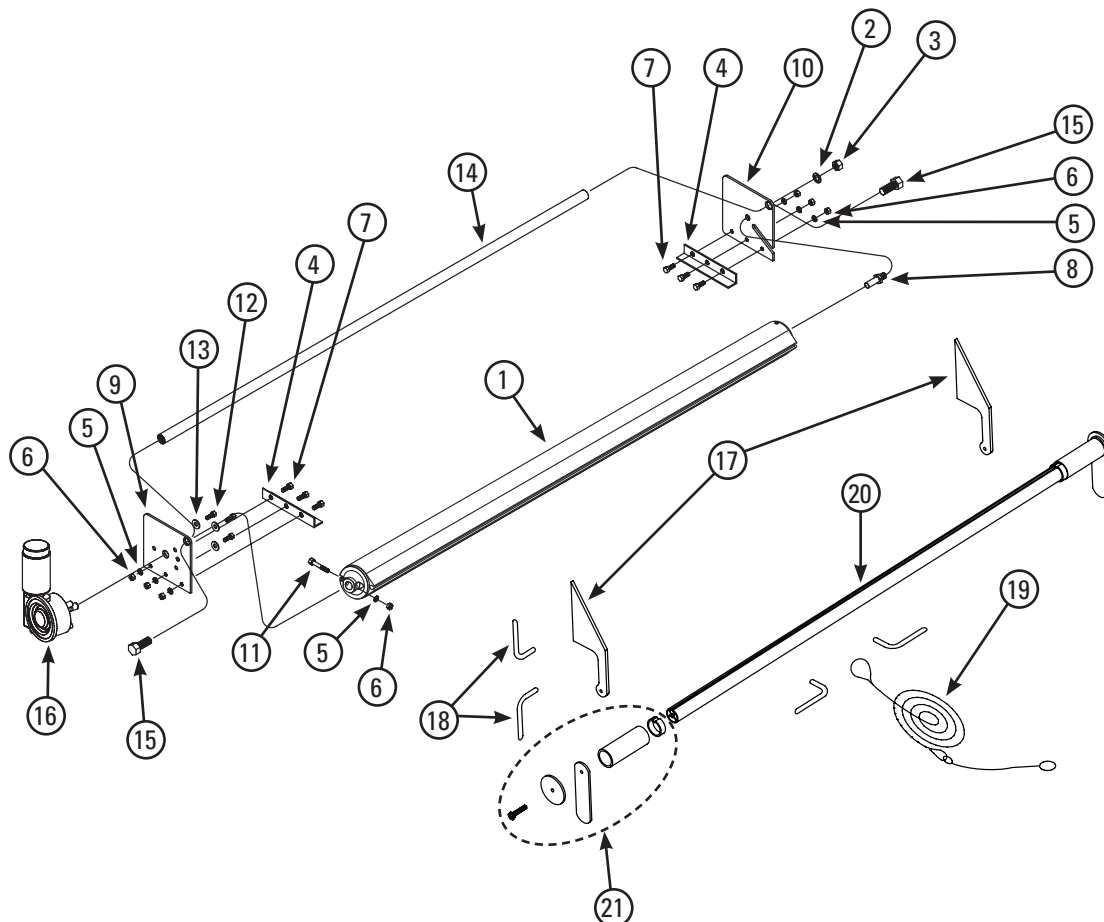
ITEM	PART #	DESCRIPTION	QTY
1	501-1310	Roller Tube Assy. 80, 84, 87, 89, 93, 96, 100"	1
2	505-5001	1/2" AN Flat Washer	1
3	504-5001	1/2" - 13 Crimp Nut	1
4	501-152X	Open System Mount Brkt. (Specify Steel or Aluminum)	2
5	505-2502	1/4" Flat Washer USS	7
6	504-3103	5/16" - 18 Nyloc Nut	7
7	503-3104	5/16" - 18 x 3/4"lg. Carriage Bolt	6
8	501-0801	System End Plate Stud 2.4"	1
9	501-0221	9" Open End Plate, Electric (Drvr.)	1
10	501-0220	9" Open End Plate (Pass.)	1
11	503-3108	5/16" - 18 x 1 3/4"lg. HHCS Bolt	1
12	503-3103	5/16" - 18 x 3/4"lg. HHCS Bolt	3
13	505-3102	5/16" Lock Washer	3
14	501-980X	Spacer Rod 7/8" 80, 84, 87, 89, 93, 96, 100"	1
15	503-7501	3/4" - 10 x 1"lg. HHCS Bolt	2
16	517-5909	Pulltarps® 1.3 HP 12V DC Electric Motor	1
--	514-0124	6 Ga. Electric Wire (Not shown)	100'
--	514-0101	Switch Assembly (Not shown)	1

REV. 11/01/21 WLH

Pullrod Hardware

ITEM	PART #	DESCRIPTION	QTY
17	501-0301	Tarp Return Ramps (Steel)	2
--	501-3102	Tarp Return Ramps (Alum.)	2
18	501-0643	Rope Storage Hooks (Steel)	4
--	501-0642	Rope Storage Hook (Alum.)	4
19	517-10XX	Pull Rope (20, 25, 30, 35, 40, 45, 50')	1
20	Determined by Length	Pullrod (85, 91, 93, 96, 99, 105" Lengths)	1
21	501-0612	Pullrod Hardware Kit	1

Open 9000EDU #110-0215
(Widths of 80, 84, 87, 89, 93, 96, 100")





PARTS SCHEMATICS

Semi-Automatic Systems

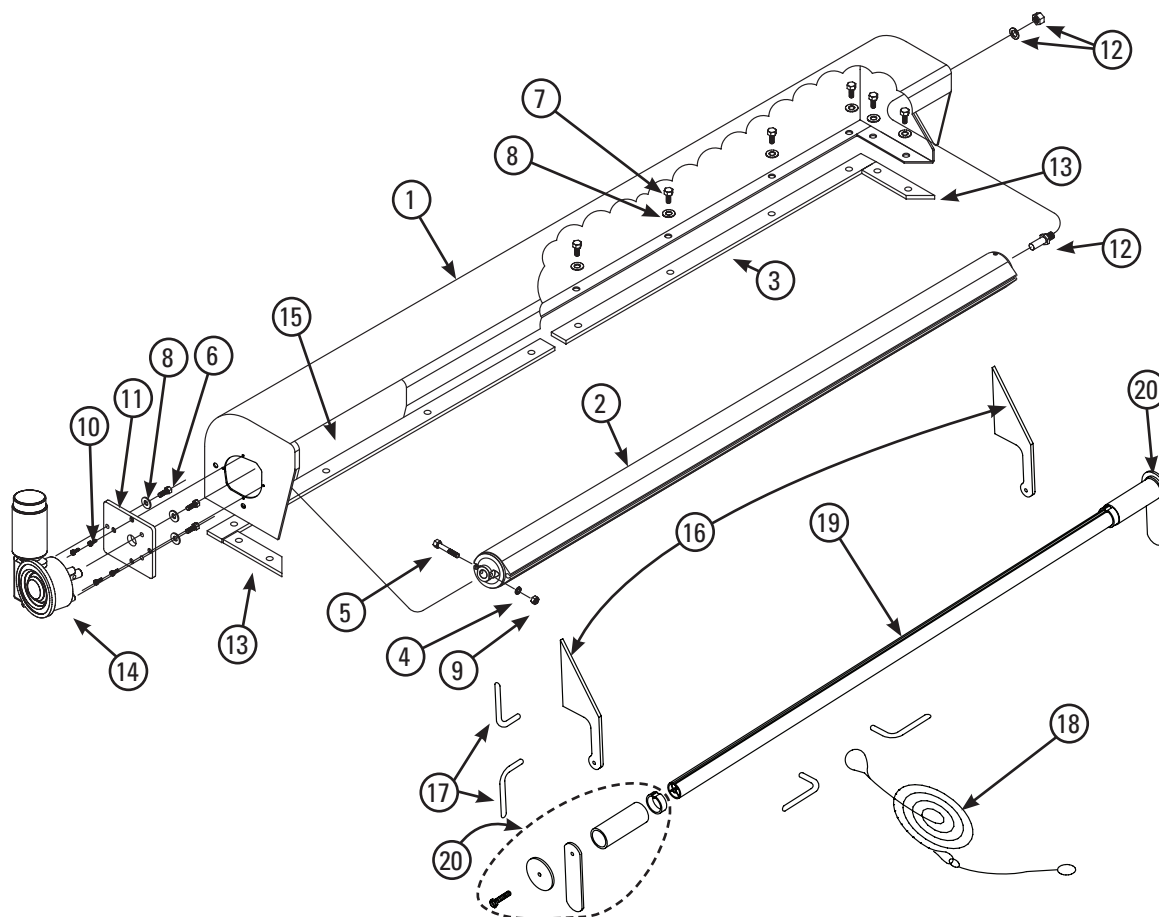
ITEM	PART #	DESCRIPTION	QTY
1	501-01XX	SS Housing 9.5" 80, 84, 87, 89, 93, 96, 100"	1
2	501-13XX	Roller Tube Assy. 80,84,87,89,93,96,100"	1
3	501-15XX	Mounting Bar 40, 42, 43.5, 44.5, 46.5, 48, 50" (Specify Steel or Aluminum)	2
4	505-2502	1/4" Flat Washer USS	1
5	503-3108	5/16" - 18 x 1-3/4"lg. HHCS Bolt	1
6	503-3105	5/16" - 18 x 1"lg. HHCS Bolt	3
7	503-3101	5/16" - 18 x 1/2"lg. HHCS Bolt	12
8	505-3102	5/16" Lock Washer	15
9	504-3103	5/16" - 18 Nyloc Nut	1
10	506-9905	#10 - 32 x 1/2"lg. Phillips Head Pan	4
11	501-1235	Alum. Adaptor Plate-SW Motor	1
12	501-0632	System End Plate Stud Kit	1
13	501-150X	6" Large Steel Mounting Brkt. (Specify Steel or Aluminum)	2
14	517-5909	Pulltarps® 1.3 HP 12V DC Electric Motor	1
--	514-0121	6 Ga. Electric Wire (Not Shown)	100'
--	514-0505	Gray Quick Disconnect (Not Shown)	2
--	514-0101	Switch Assembly (Not shown)	1
15	607-0061	Pulltarps Decal	1

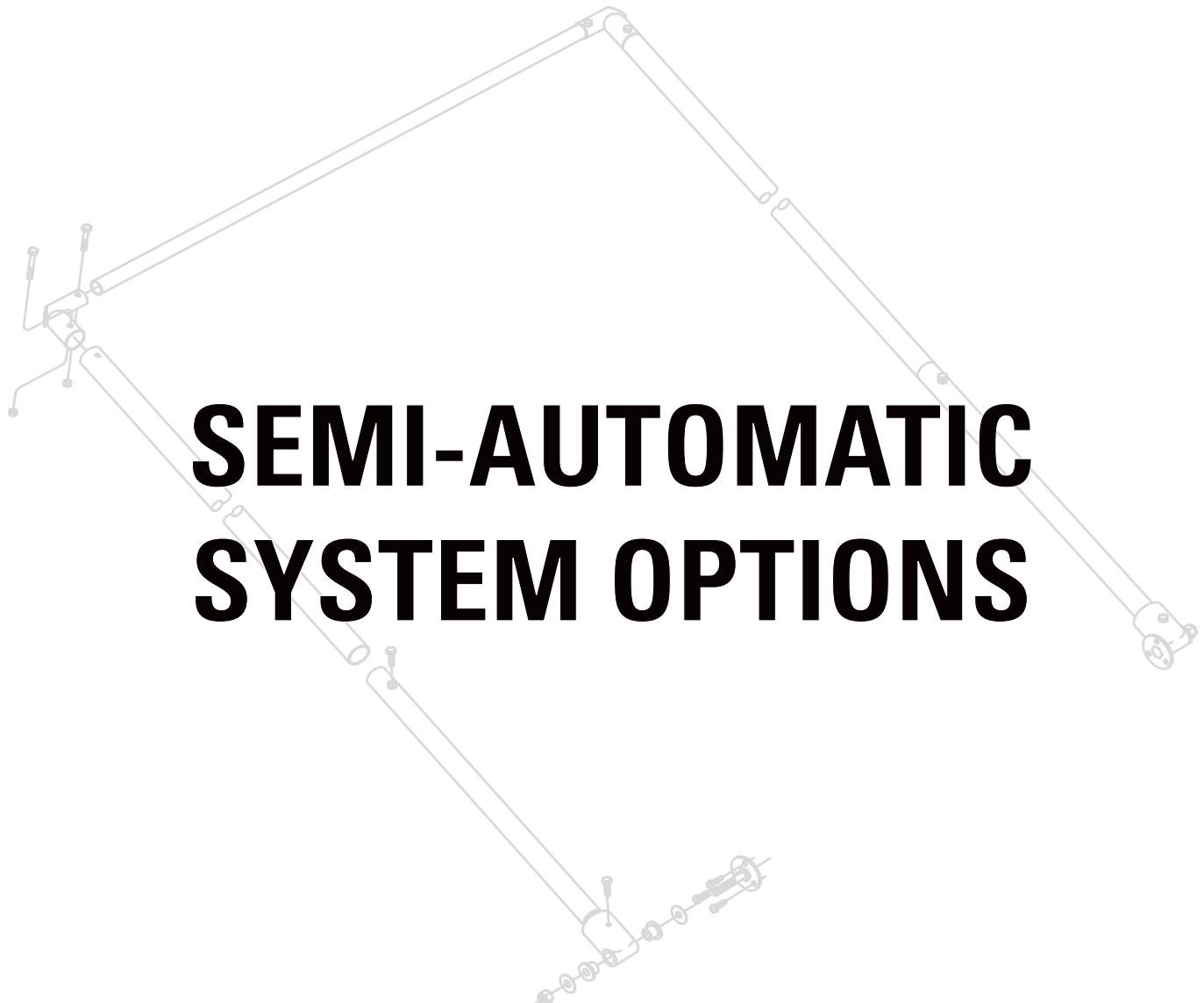
REV. 12/17/21 WLH

Pullrod Hardware

ITEM	PART #	DESCRIPTION	QTY
16	501-0301	Tarp Return Ramps (Steel)	2
--	501-0302	Tarp Return Ramps (Alum.)	2
17	501-0621	Rope Storage Kits (4 Steel Hooks)	1
--	501-0608	Rope Storage Kits (4 Alum. Hooks)	1
18	517-10XX	Pull Rope (20, 25, 30, 35, 40, 50')	1
19	Determined by Length	Pullrod (85, 91, 93, 96, 100, 105" Lengths)	1
20	501-0612	Pullrod Hardware Kit	1

SuperShield™ 9500EDU #111-0215 (Widths of 80, 84, 87, 89, 93, 96, 100")





SEMI-AUTOMATIC SYSTEM OPTIONS



PARTS SCHEMATICS

Semi-Automatic System Options

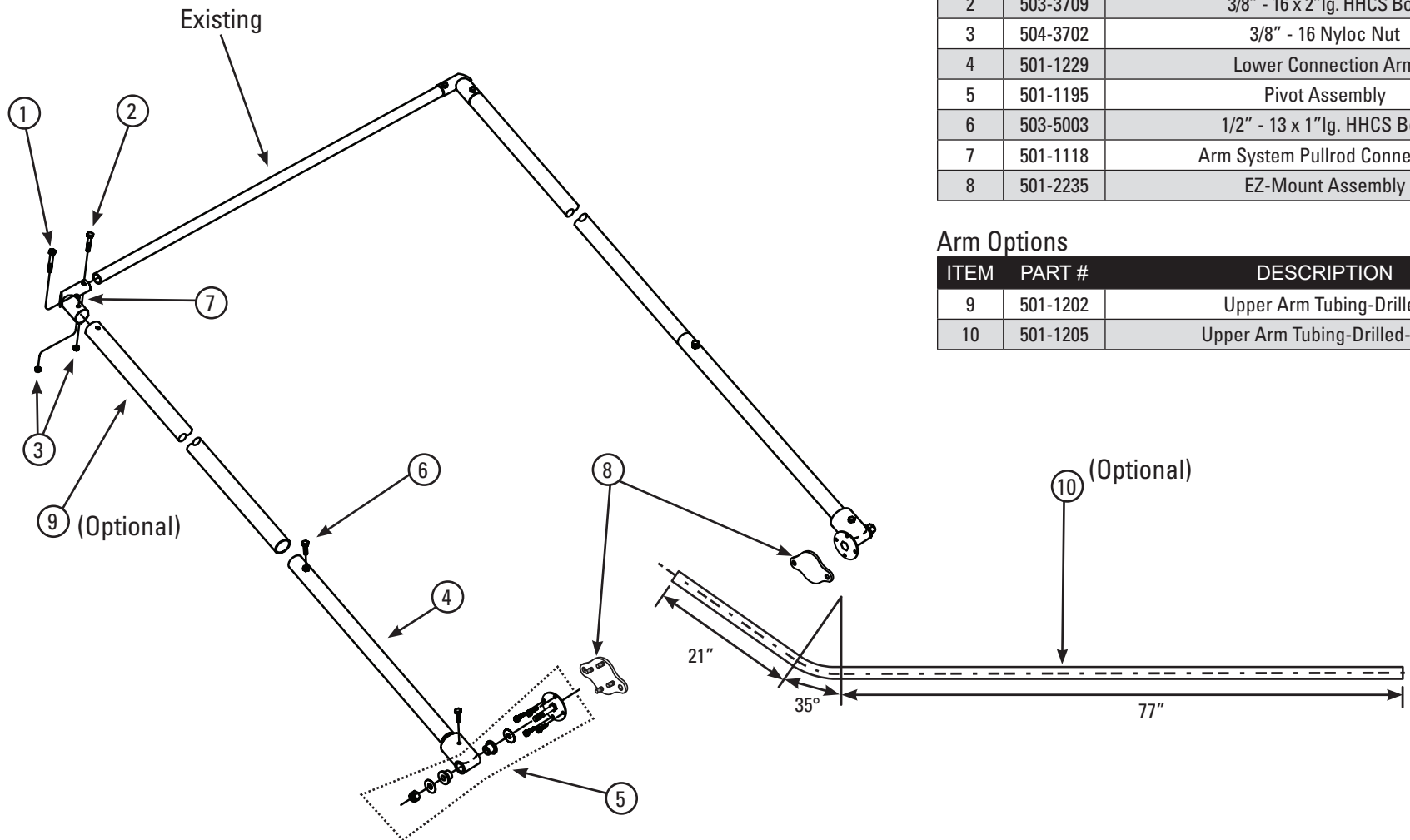
Manual Steel Arm Retrofit Kit #113-2212

ITEM	PART #	DESCRIPTION	QTY
1	503-3713	3/8" - 16 x 2-1/2"lg. HHCS Bolt	2
2	503-3709	3/8" - 16 x 2"lg. HHCS Bolt	2
3	504-3702	3/8" - 16 Nyloc Nut	6
4	501-1229	Lower Connection Arm	2
5	501-1195	Pivot Assembly	2
6	503-5003	1/2" - 13 x 1"lg. HHCS Bolt	2
7	501-1118	Arm System Pullrod Connection	2
8	501-2235	EZ-Mount Assembly	2

Arm Options

ITEM	PART #	DESCRIPTION	QTY
9	501-1202	Upper Arm Tubing-Drilled	2
10	501-1205	Upper Arm Tubing-Drilled-Bent	2

REV. 04/09/19 WLH





PARTS SCHEMATICS

Semi-Automatic System Options

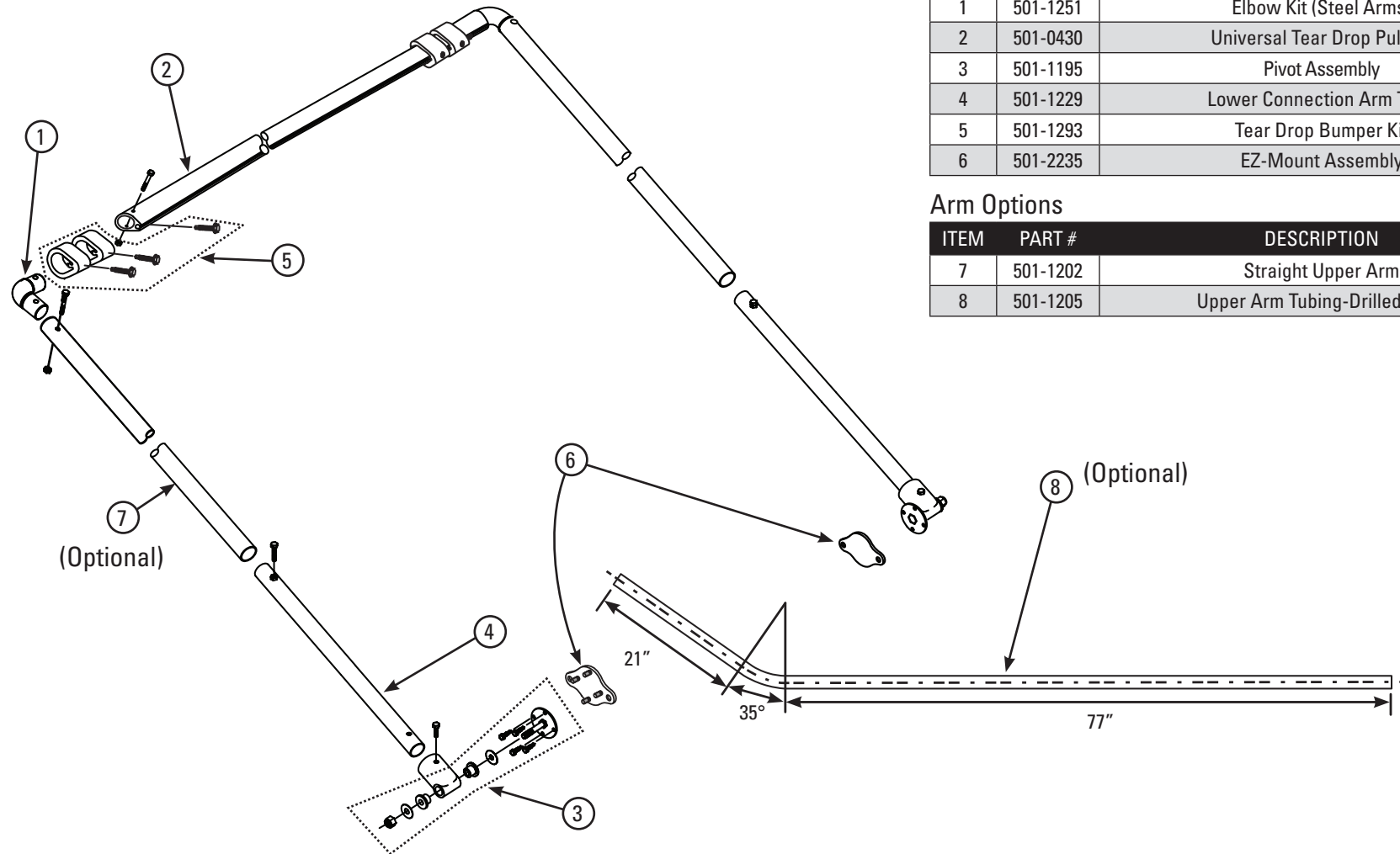
Steel Manual Arms (Complete Kits) #113-2214, 113-2215

ITEM	PART #	DESCRIPTION	QTY
1	501-1251	Elbow Kit (Steel Arms)	1
2	501-0430	Universal Tear Drop Pullbar	1
3	501-1195	Pivot Assembly	2
4	501-1229	Lower Connection Arm Tube	2
5	501-1293	Tear Drop Bumper Kit	1
6	501-2235	EZ-Mount Assembly	2

Arm Options

ITEM	PART #	DESCRIPTION	QTY
7	501-1202	Straight Upper Arm	2
8	501-1205	Upper Arm Tubing-Drilled-Bent	2

REV. 04/10/19 WLH





PARTS SCHEMATICS

Semi-Automatic System Options

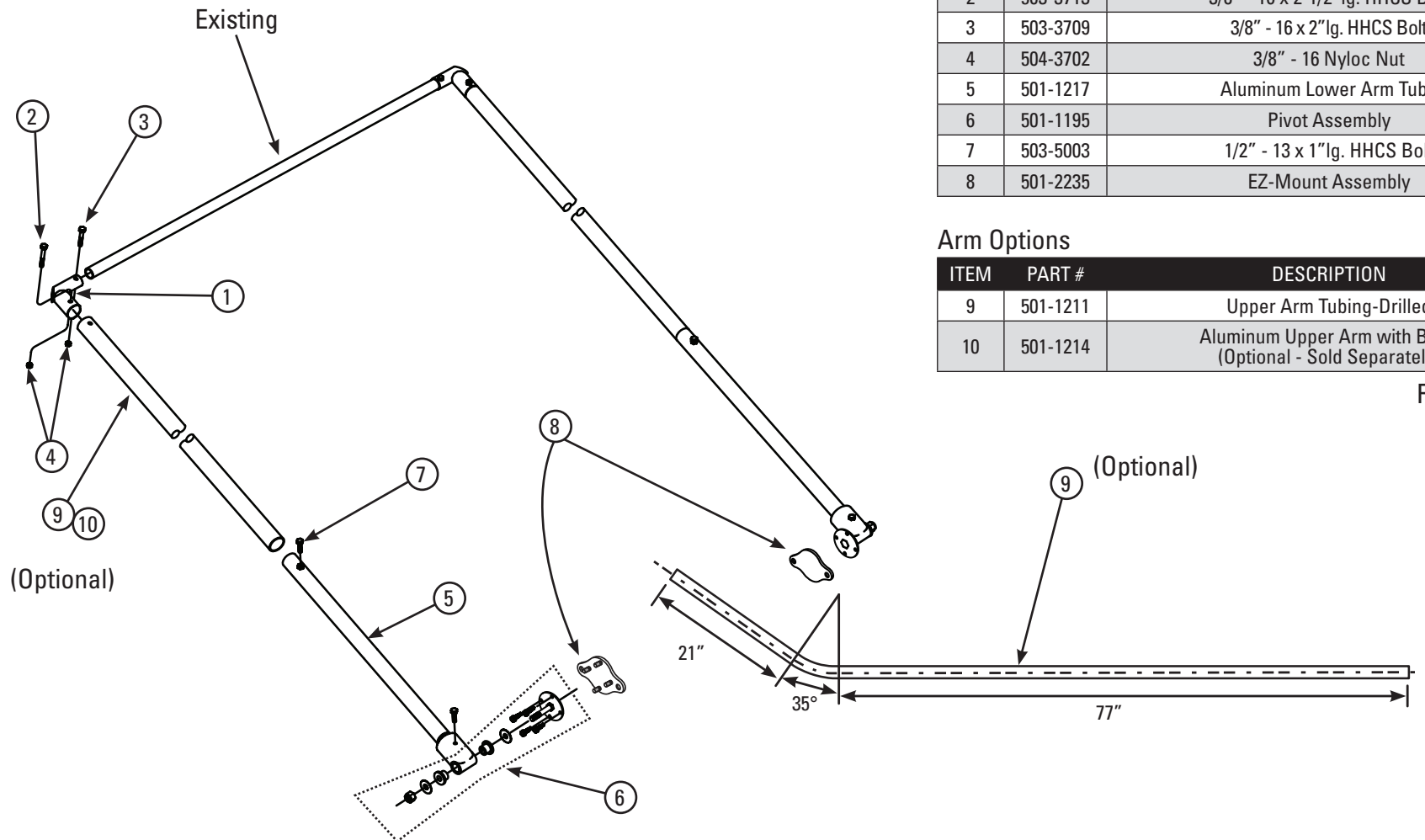
Manual Aluminum Arm Retrofit Kit #113-2222

ITEM	PART #	DESCRIPTION	QTY
1	501-1118	Arm System Pullrod Connection	2
2	503-3713	3/8" - 16 x 2-1/2"lg. HHCS Bolt	2
3	503-3709	3/8" - 16 x 2"lg. HHCS Bolt	2
4	504-3702	3/8" - 16 Nyloc Nut	6
5	501-1217	Aluminum Lower Arm Tube	2
6	501-1195	Pivot Assembly	2
7	503-5003	1/2" - 13 x 1"lg. HHCS Bolt	2
8	501-2235	EZ-Mount Assembly	2

Arm Options

ITEM	PART #	DESCRIPTION	QTY
9	501-1211	Upper Arm Tubing-Drilled	2
10	501-1214	Aluminum Upper Arm with Bend (Optional - Sold Separately)	2

REV. 04/10/19 WLH





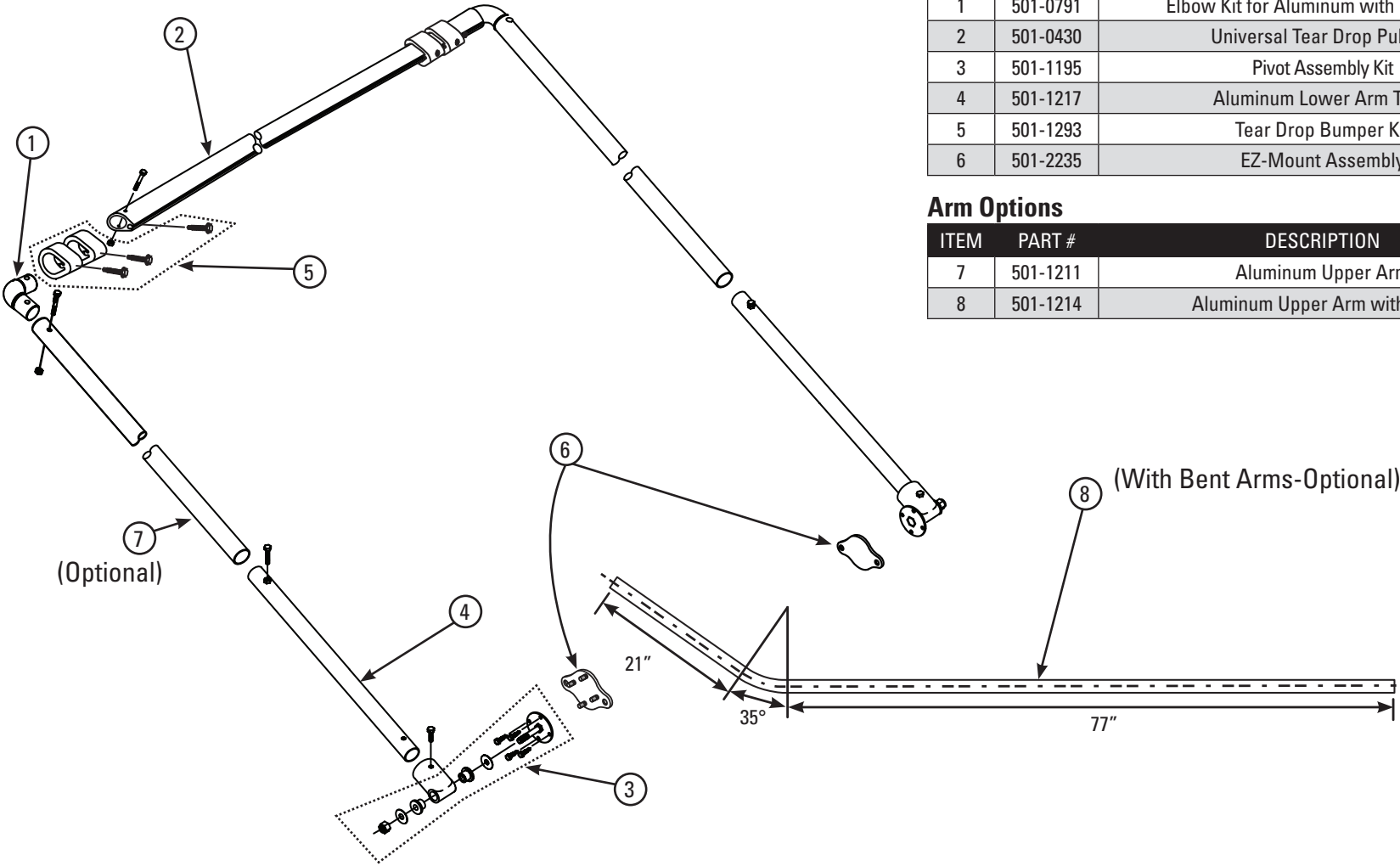
Aluminum Manual Arm Kits #113-2224, #113-2225

ITEM	PART #	DESCRIPTION	QTY
1	501-0791	Elbow Kit for Aluminum with Tear Drop	1
2	501-0430	Universal Tear Drop Pullbar	1
3	501-1195	Pivot Assembly Kit	2
4	501-1217	Aluminum Lower Arm Tube	2
5	501-1293	Tear Drop Bumper Kit	1
6	501-2235	EZ-Mount Assembly	2

Arm Options

ITEM	PART #	DESCRIPTION	QTY
7	501-1211	Aluminum Upper Arm	2
8	501-1214	Aluminum Upper Arm with Bend	2

REV. 10/21/16 WLH

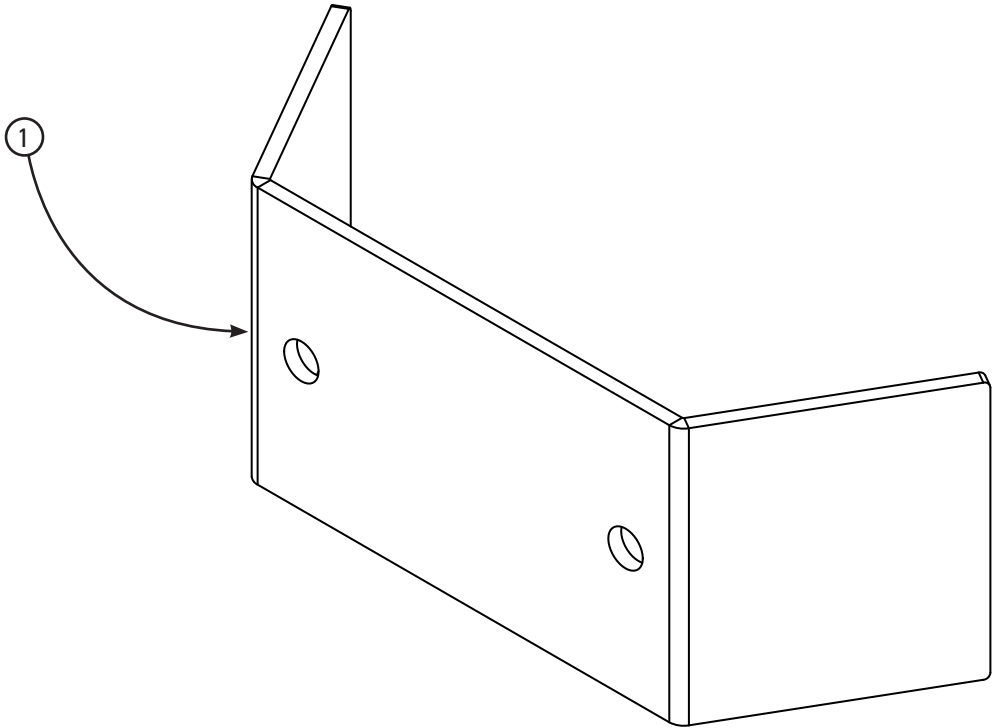




Offset Bracket - 4 Inch #501-1560

ITEM	PART #	DESCRIPTION	QTY
1	501-1560	EZ-Mount Pivot Offset Mount - 4"	1

REV. 10/01/20 WLH



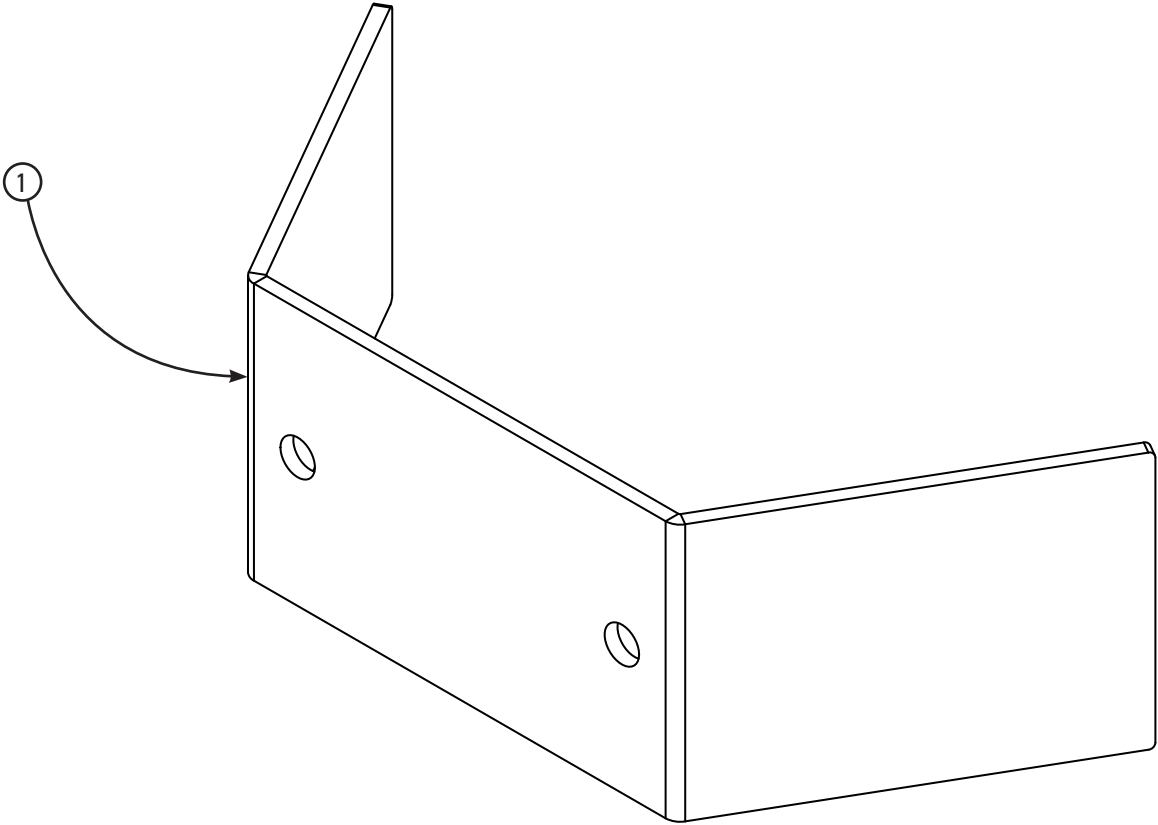
(Can be used with Manual and Automatic Arm Systems)



Offset Bracket - 6 Inch #501-1561

ITEM	PART #	DESCRIPTION	QTY
1	501-1561	EZ-Mount Pivot Offset Mount - 6"	1

REV. 10/01/20 WLH



(Can be used with Manual and Automatic Arm Systems)



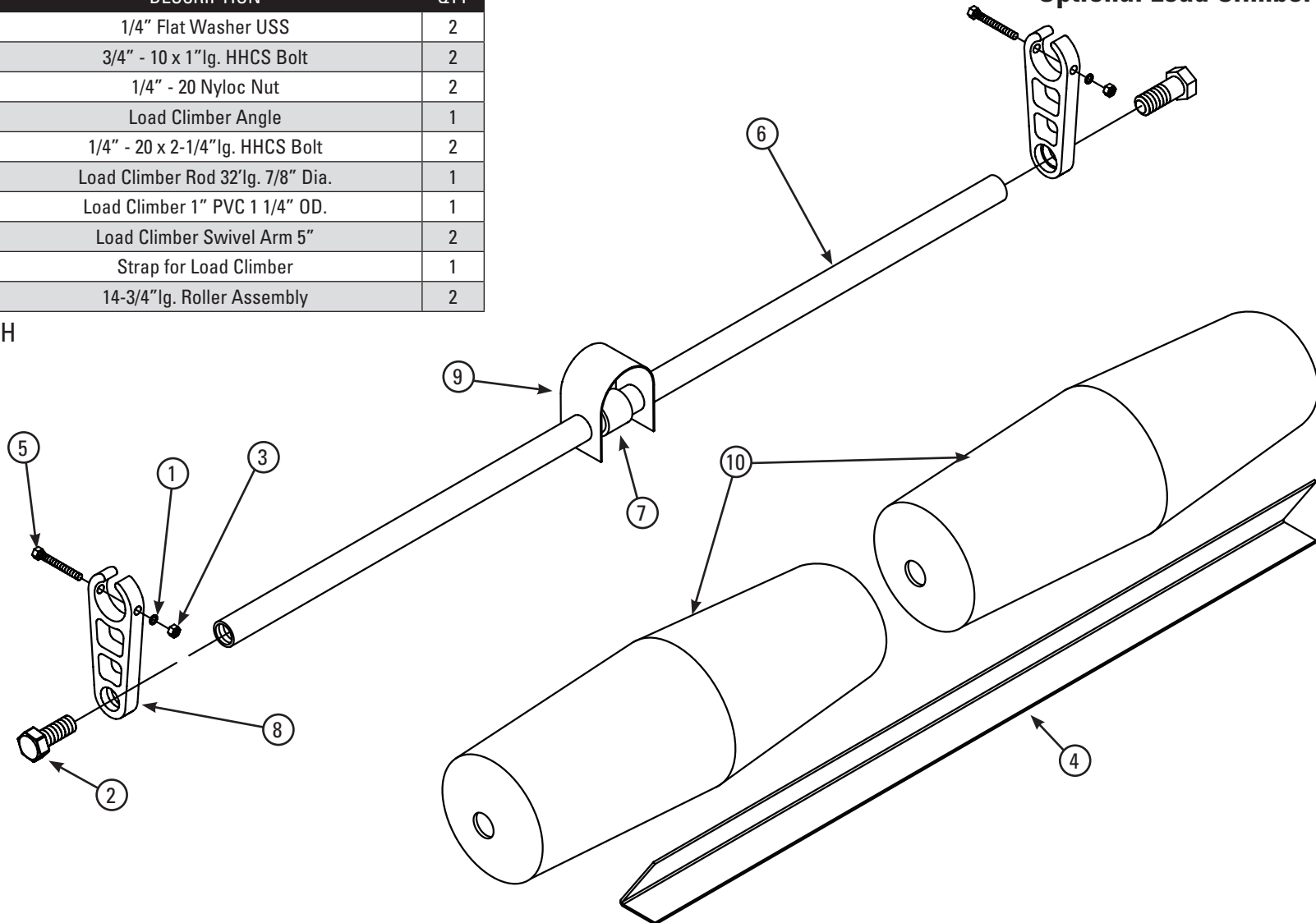
PARTS SCHEMATICS

Semi-Automatic System Options

ITEM	PART #	DESCRIPTION	QTY
1	505-2502	1/4" Flat Washer USS	2
2	503-7501	3/4" - 10 x 1"lg. HHCS Bolt	2
3	504-2503	1/4" - 20 Nyloc Nut	2
4	501-0905	Load Climber Angle	1
5	503-2514	1/4" - 20 x 2-1/4"lg. HHCS Bolt	2
6	501-0902	Load Climber Rod 32'lg. 7/8" Dia.	1
7	501-0909	Load Climber 1" PVC 1 1/4" OD.	1
8	501-0903	Load Climber Swivel Arm 5"	2
9	501-0912	Strap for Load Climber	1
10	501-0910	14-3/4"lg. Roller Assembly	2

REV. 10/14/16 WLH

Optional Load Climber #501-0901





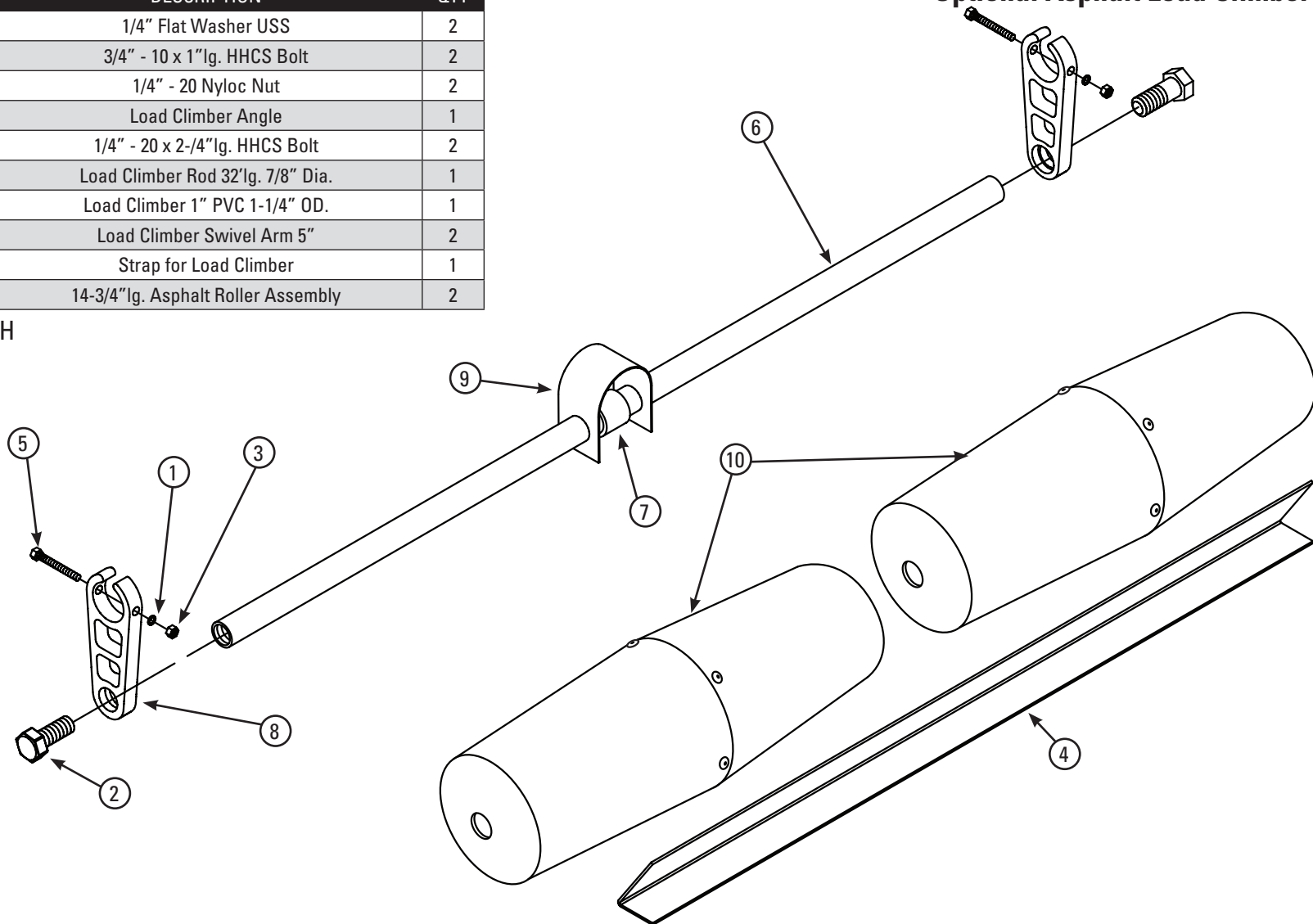
PARTS SCHEMATICS

Semi-Automatic System Options

ITEM	PART #	DESCRIPTION	QTY
1	505-2502	1/4" Flat Washer USS	2
2	503-7501	3/4" - 10 x 1"lg. HHCS Bolt	2
3	504-2503	1/4" - 20 Nyloc Nut	2
4	501-0905	Load Climber Angle	1
5	503-2514	1/4" - 20 x 2-1/4"lg. HHCS Bolt	2
6	501-0902	Load Climber Rod 32'lg. 7/8" Dia.	1
7	501-0909	Load Climber 1" PVC 1-1/4" OD.	1
8	501-0903	Load Climber Swivel Arm 5"	2
9	501-0912	Strap for Load Climber	1
10	501-0914	14-3/4"lg. Asphalt Roller Assembly	2

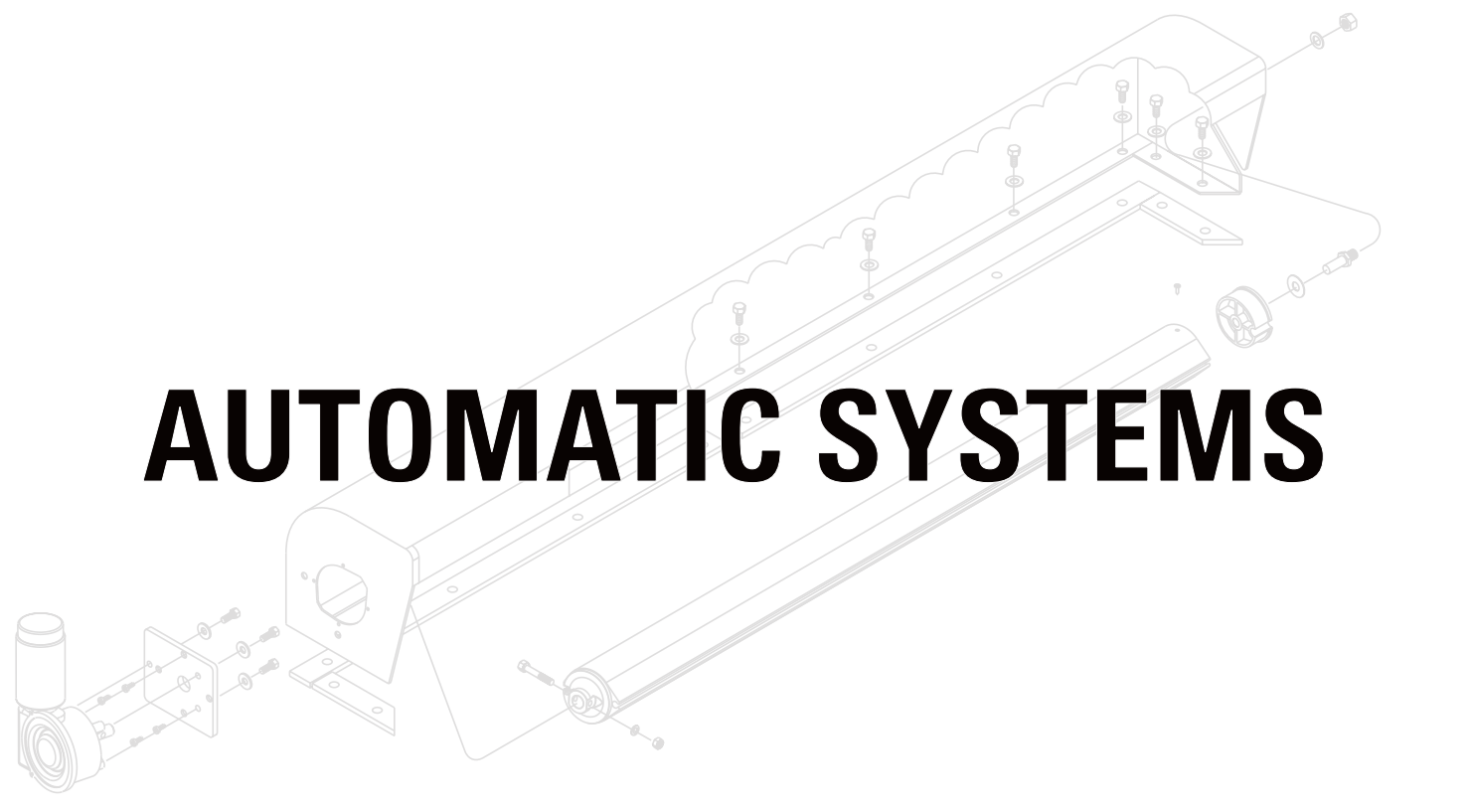
Optional Asphalt Load Climber #501-0913

REV. 10/14/16 WLH





AUTOMATIC SYSTEMS

An exploded view diagram of a truck tarp automatic system. The diagram shows the main tarp body with a scalloped edge, various mounting brackets, rollers, and a motor assembly. Callout lines connect the parts to their respective locations on the assembled unit. The parts are shown in a disassembled state to illustrate the assembly process.



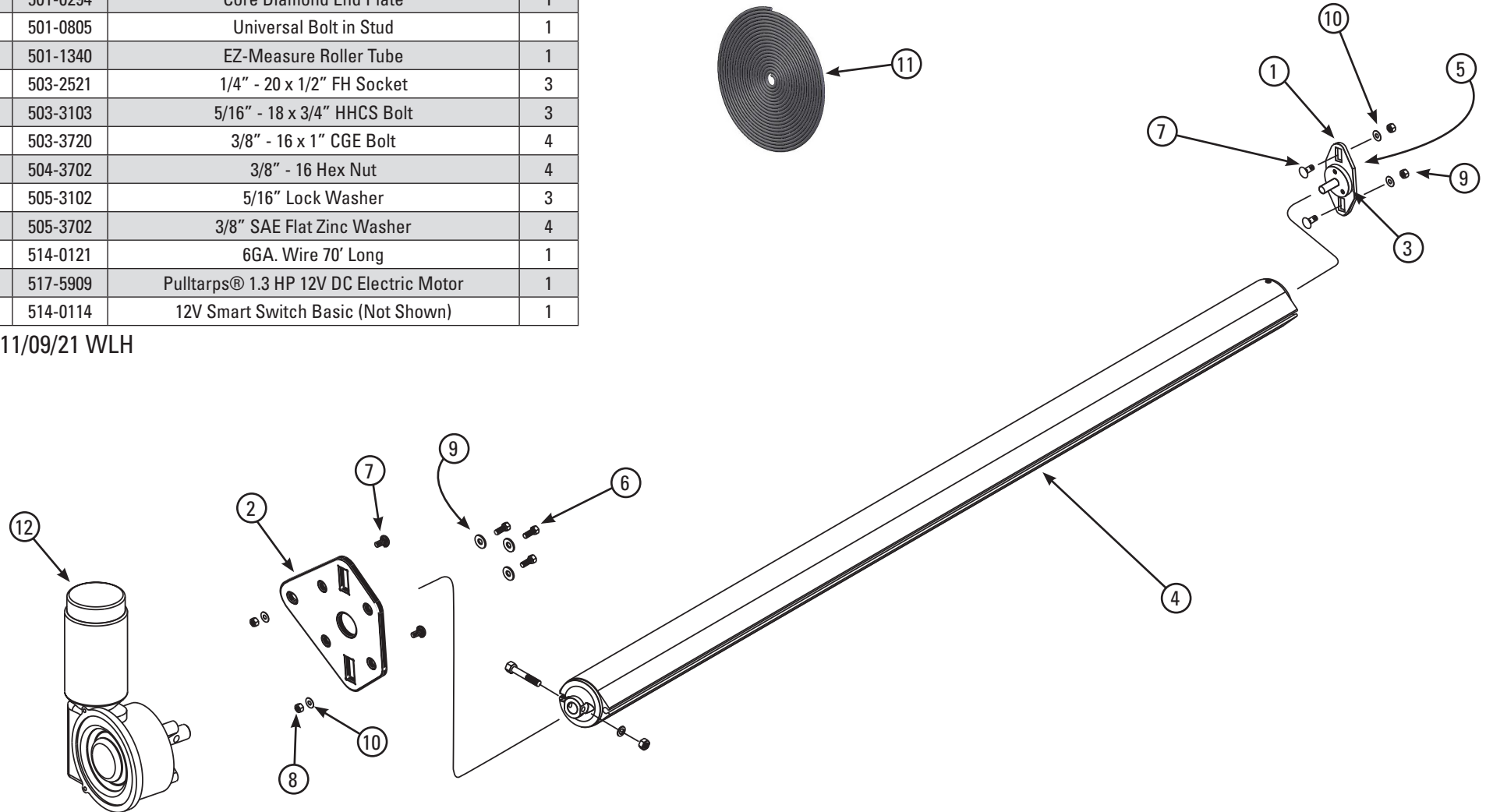
PARTS SCHEMATICS

Automatic Systems

ITEM	PART #	DESCRIPTION	QTY
1	501-0293	Core End Plate	1
2	501-0294	Core Diamond End Plate	1
3	501-0805	Universal Bolt in Stud	1
4	501-1340	EZ-Measure Roller Tube	1
5	503-2521	1/4" - 20 x 1/2" FH Socket	3
6	503-3103	5/16" - 18 x 3/4" HHCS Bolt	3
7	503-3720	3/8" - 16 x 1" CGE Bolt	4
8	504-3702	3/8" - 16 Hex Nut	4
9	505-3102	5/16" Lock Washer	3
10	505-3702	3/8" SAE Flat Zinc Washer	4
11	514-0121	6GA. Wire 70' Long	1
12	517-5909	Pulltarps® 1.3 HP 12V DC Electric Motor	1
--	514-0114	12V Smart Switch Basic (Not Shown)	1

Core (Automatic) #285-3017 & 531-2850 (EZ-Fit) (Cut-to-Fit)

REV. 11/09/21 WLH

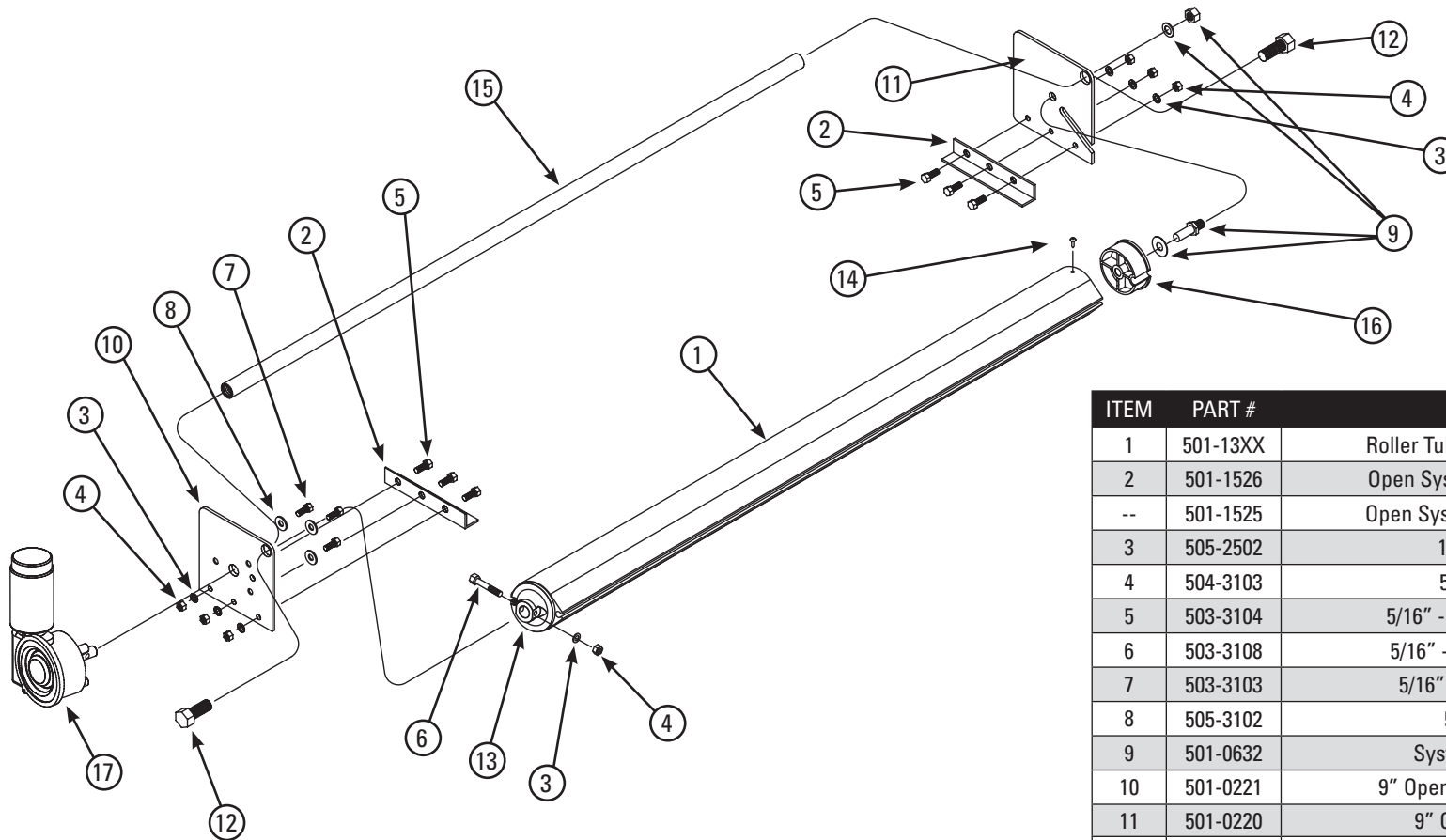




PARTS SCHEMATICS

Automatic Systems

Open 9000E #201-0215



ITEM	PART #	DESCRIPTION	QTY
1	501-13XX	Roller Tube 80, 84, 87, 89, 93, 96, 100"	1
2	501-1526	Open System Mount Bracket (Steel)	2
--	501-1525	Open System Mount Bracket (Alum.)	2
3	505-2502	1/4" Flat Washer USS	7
4	504-3103	5/16" - 18 Nyloc Nut	7
5	503-3104	5/16" - 18 x 3/4"lg. Carriage Bolt	6
6	503-3108	5/16" - 18 x 1-3/4"lg. HHCS Bolt	1
7	503-3103	5/16" - 18 x 3/4"lg. HHCS Bolt	3
8	505-3102	5/16" Lock Washer	3
9	501-0632	System End Plate Stud Kit	1
10	501-0221	9" Open End Plate, Electric (Drvr.)	1
11	501-0220	9" Open End Plate (Pass.)	1
12	503-7501	3/4" - 10 x 1"lg. HHCS Bolt	2
13	501-9915	Roller Drive Aluminum End Cap	1
14	506-9916	Screw #8 - 18 x 3/4" Self Drilling	1
15	501-980X	Spacer Rod 7/8" - 80, 84, 87, 89, 93, 96, 100"	1
16	517-0102	Flanged End Cap	1
17	517-5909	Pulltarps® 1.3 HP 12V DC Electric Motor	1

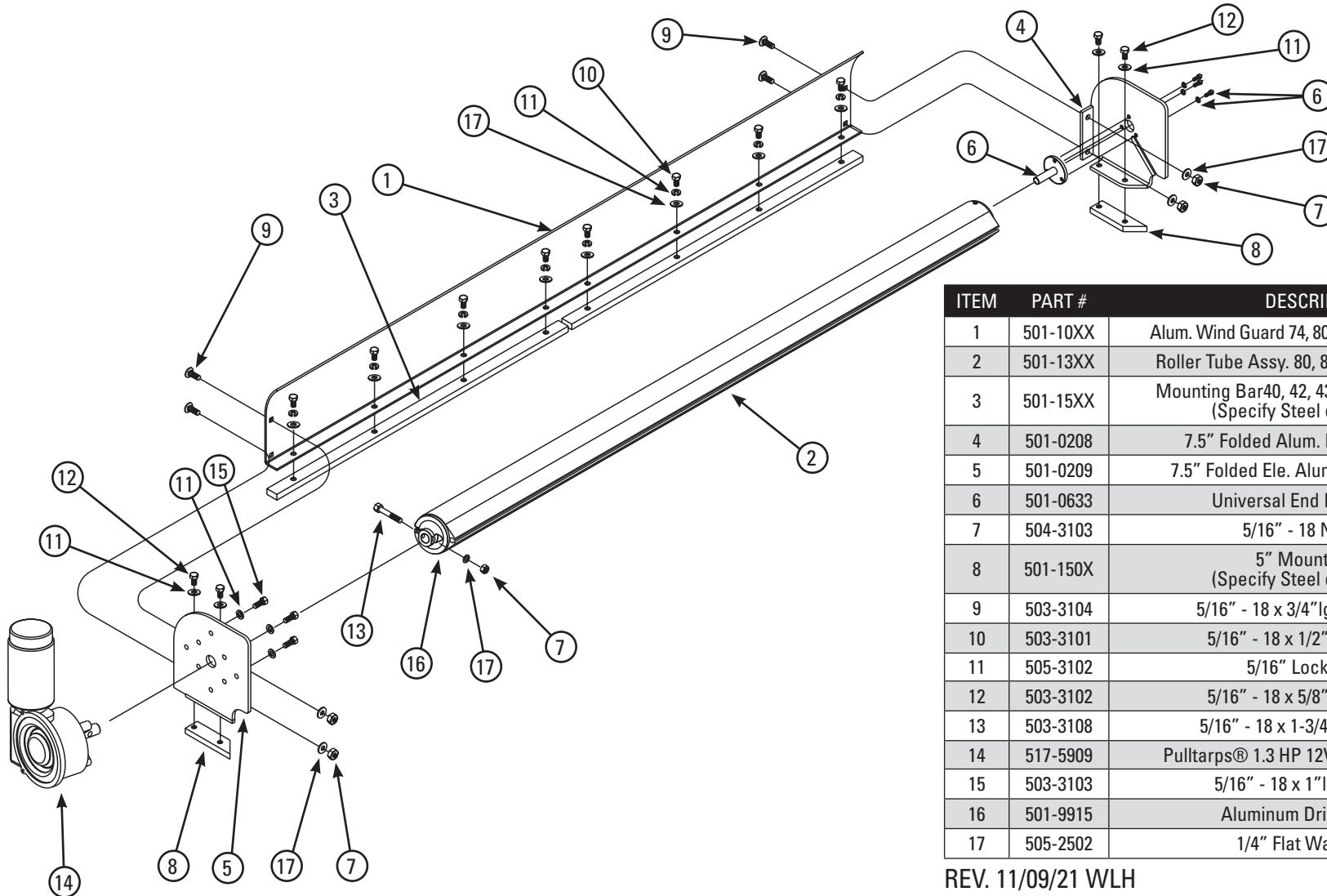
REV. 11/09/21 WLH



PARTS SCHEMATICS

Automatic Systems

Aluminator™ 7000E #204-0215



ITEM	PART #	DESCRIPTION	QTY
1	501-10XX	Alum. Wind Guard 74, 80, 84, 87, 89, 96, 96, 100"	1
2	501-13XX	Roller Tube Assy. 80, 84, 87, 89, 93, 96, 100"	1
3	501-15XX	Mounting Bar 40, 42, 43.5, 44.5, 46.5, 48, 50" (Specify Steel or Aluminum)	2
4	501-0208	7.5" Folded Alum. End Plate (Pass.)	1
5	501-0209	7.5" Folded Ele. Alum. End Plate (Drvr.)	1
6	501-0633	Universal End Plate Stud Kit	1
7	504-3103	5/16" - 18 Nyloc Nut	5
8	501-150X	5" Mounting Bar (Specify Steel or Aluminum)	2
9	503-3104	5/16" - 18 x 3/4"lg. Carriage Bolt	4
10	503-3101	5/16" - 18 x 1/2"lg. HHCS Bolt	8
11	505-3102	5/16" Lock Washer	15
12	503-3102	5/16" - 18 x 5/8"lg. HHCS Bolt	4
13	503-3108	5/16" - 18 x 1-3/4"lg. HHCS Bolt	1
14	517-5909	Pulltarps® 1.3 HP 12V DC Electric Motor	1
15	503-3103	5/16" - 18 x 1"lg. HHCS Bolt	3
16	501-9915	Aluminum Driver End Cap	1
17	505-2502	1/4" Flat Washer USS	13

REV. 11/09/21 WLH



PARTS SCHEMATICS

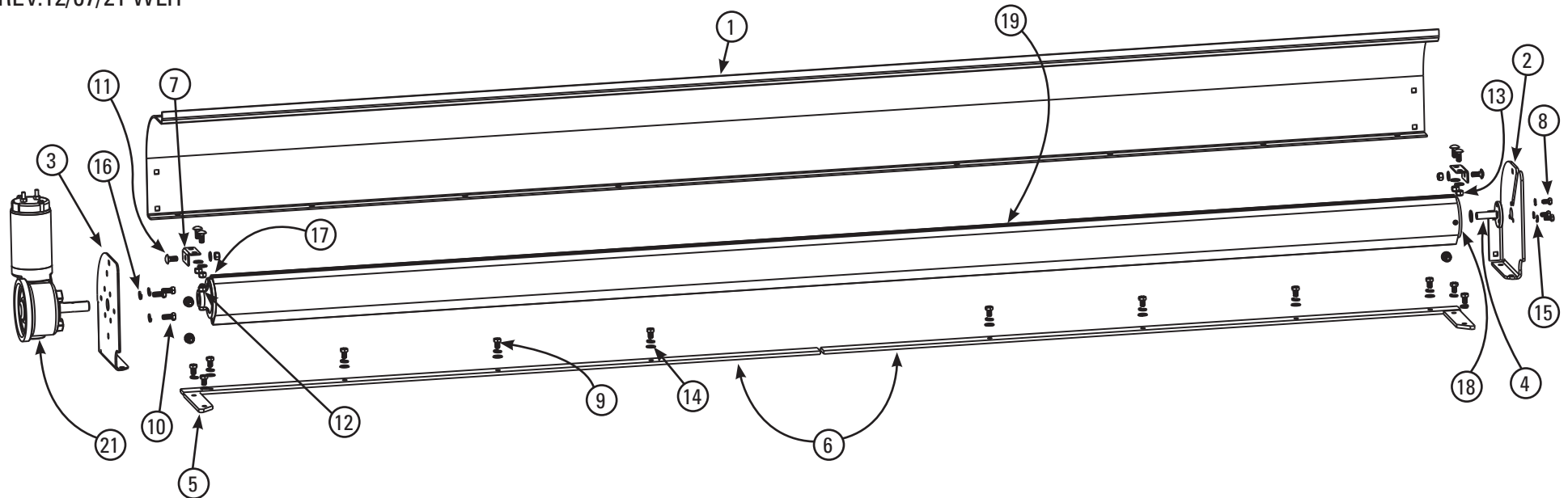
Automatic Systems

Aluminator™ 8500E #234-0215

ITEM	PART #	DESCRIPTION	QTY
1	501-0175	80" Aluminum 8.5" Housing	1
2	501-1051	8.5" Right Aluminum End Plate	1
3	501-1052	8.5" Electric Aluminum End Plate	1
4	501-0805	Universal Bolt in Stud	1
5	501-1506	6" Large Steel Mounting	2
6	501-1507	40" Mounting Bar-Steel	2
7	501-9934	Galvanized Steel Bracket	2
8	503-2503	1/4" - 20 x 1/2" HHD Bolt	3
9	503-3101	5/16" - 18 x 1/2" Hex Bolt	12
10	503-3103	5/16" - 18 x 3/4" HHCS Bolt	3
11	503-3104	5/16" - 18 x 3/4" Carriage Bolt	10

ITEM	PART #	DESCRIPTION	QTY
12	503-3108	5/16" - 18 x 1-3/4" HHCS Hex Bolt	1
13	504-3103	5/16" - 18 Nylock Nut Steel	11
14	505-2502	1/4" USS Washer 5/16"	19
15	505-2503	1/4" Lock Washer - Plated	3
16	505-3102	5/16" Lock Washer	15
17	501-9915	Roller Drive Aluminum End Cap	1
18	517-0102	Flanged End Cap	1
19	517-0502	78mm Roller Tube Galvanized	1
20	506-9916	Screw, #8 - 18 x 3/4" Self (Not Shown)	1
21	517-5909	Pulltarps® 1.3 HP 12V DC Electric Motor	1

REV.12/07/21 WLH





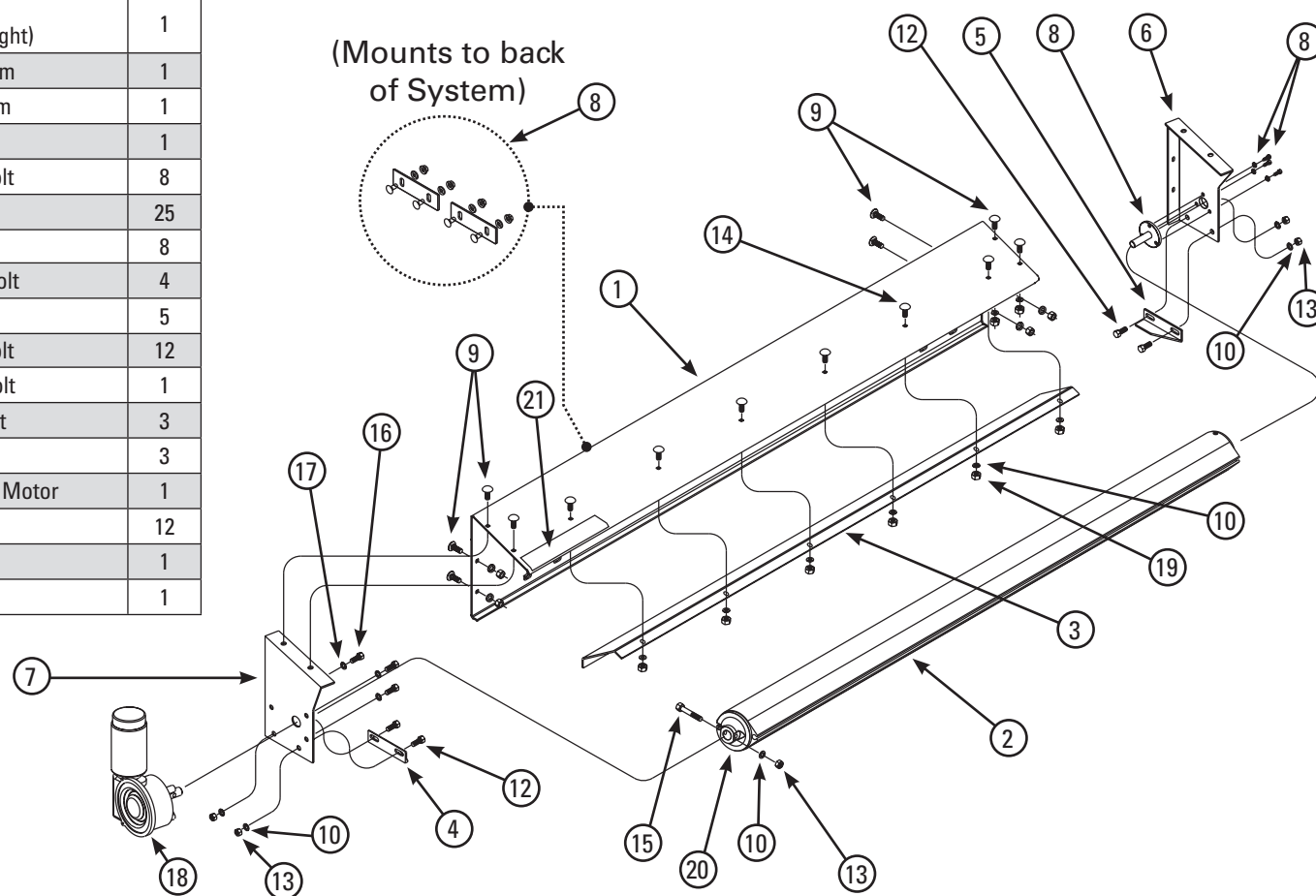
PARTS SCHEMATICS

Automatic Systems

Steel Protector™ #208-0215

ITEM	PART #	DESCRIPTION	QTY
1	501-01XX	Galv. Steel Protector Hsg. 80, 84, 87, 89, 96, 96, 100"	1
2	501-13XX	Roller Tube Assy. 80, 84, 87, 89, 93, 96, 100"	1
3	501-0138	48" x 5 1/2" Galvanized Insert	1
4	501-152X	System Mount Bracket (Specify Steel or Aluminum - Left)	1
5	501-152X	System Mount Bracket (Specify Steel or Aluminum - Right)	1
6	501-0254	Right End Plate for "N" System	1
7	501-0255	Electric End Plate "N" System	1
8	501-0633	Universal Bolt In Stud Kit	1
9	503-2505	1/4" - 20 x 3/4"lg. Carriage Bolt	8
10	505-2502	1/4" Flat Washer USS	25
11	504-2503	1/4" - 20 Nyloc Nut	8
12	503-3104	5/16" - 18 x 3/4"lg. Carriage Bolt	4
13	504-3103	5/16" - 18 Nyloc Nut	5
14	503-2501	1/4" - 20 x 1/2"lg. Carriage Bolt	12
15	503-3108	5/16" - 18 x 1-3/4"lg. HHCS Bolt	1
16	503-3103	5/16" - 18 x 3/4"lg. HHCS Bolt	3
17	505-3102	5/16" Lock Washer	3
18	517-5909	Pulltarps® 1.3 HP 12V DC Electric Motor	1
19	504-2506	1/4" - 20 x Nyloc Nut (Thin)	12
20	501-9915	Driver Aluminum End Cap	1
21	607-0061	Pulltarps Decal	1

ITEM	PART #	DESCRIPTION	QTY
22	501-06XX	Steel Protector System Hardware (Specify Steel or Aluminum)	1



REV. 11/18/21 WLH



PARTS SCHEMATICS

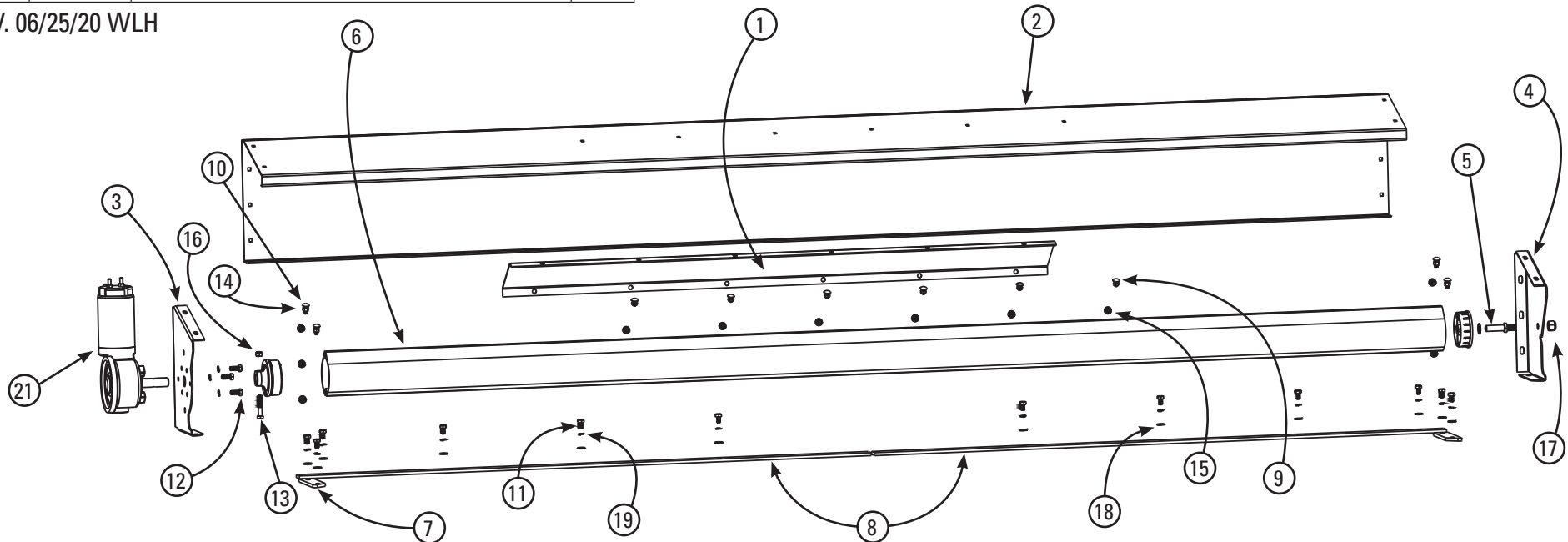
Automatic Systems

Steel Protector +™ #218-0215

ITEM	PART #	DESCRIPTION	QTY
1	501-0138	Galvanized Insert	1
2	501-0190	87" Galvanized Steel Protector + Housing	1
3	501-0282	Protector + Electric End Plate	1
4	501-0281	Protector + End Plate Passenger	1
5	501-0801	System End Plate Stud 2.4"	1
6	501-1312	87" Roller Assembly for Electric Drive	1
7	501-1506	6" Large Steel Mounting Bar	2
8	501-1509	43.5" Mounting Bar Steel	2
9	503-2501	1/4" - 20 x 1/2" USS Carriage Bolt	12
10	503-2505	1/4" - 20 x 3/4" USS Carriage Bolt	10
11	503-3101	5/16" - 18 x 1/2" Hex Bolt	12

ITEM	PART #	DESCRIPTION	QTY
12	503-3103	5/16" - 18 x 3/4" HHCS Bolt	3
13	503-3108	5/16" - 18 x 1-3/4" HHCS Hex Bolt G2	1
14	504-2503	1/4" - 20 USS Nylock Nut	10
15	504-2506	1/4" Hex Lock Nut "Thin" L/N Steel Zinc	12
16	504-3103	5/16" - 18 Nylock Nut Steel Zinc	1
17	504-5001	1/2" Crimp Nut	1
18	505-2502	1/4" USS Washer 5/16" Hole	35
19	505-3102	5/16" Lock Washer	15
20	505-5001	1/2" AN Washer 1/16" Thick (Not Shown)	1
21	517-5909	Pulltarps® 1.3 HP 12V DC Electric Motor	1

REV. 06/25/20 WLH



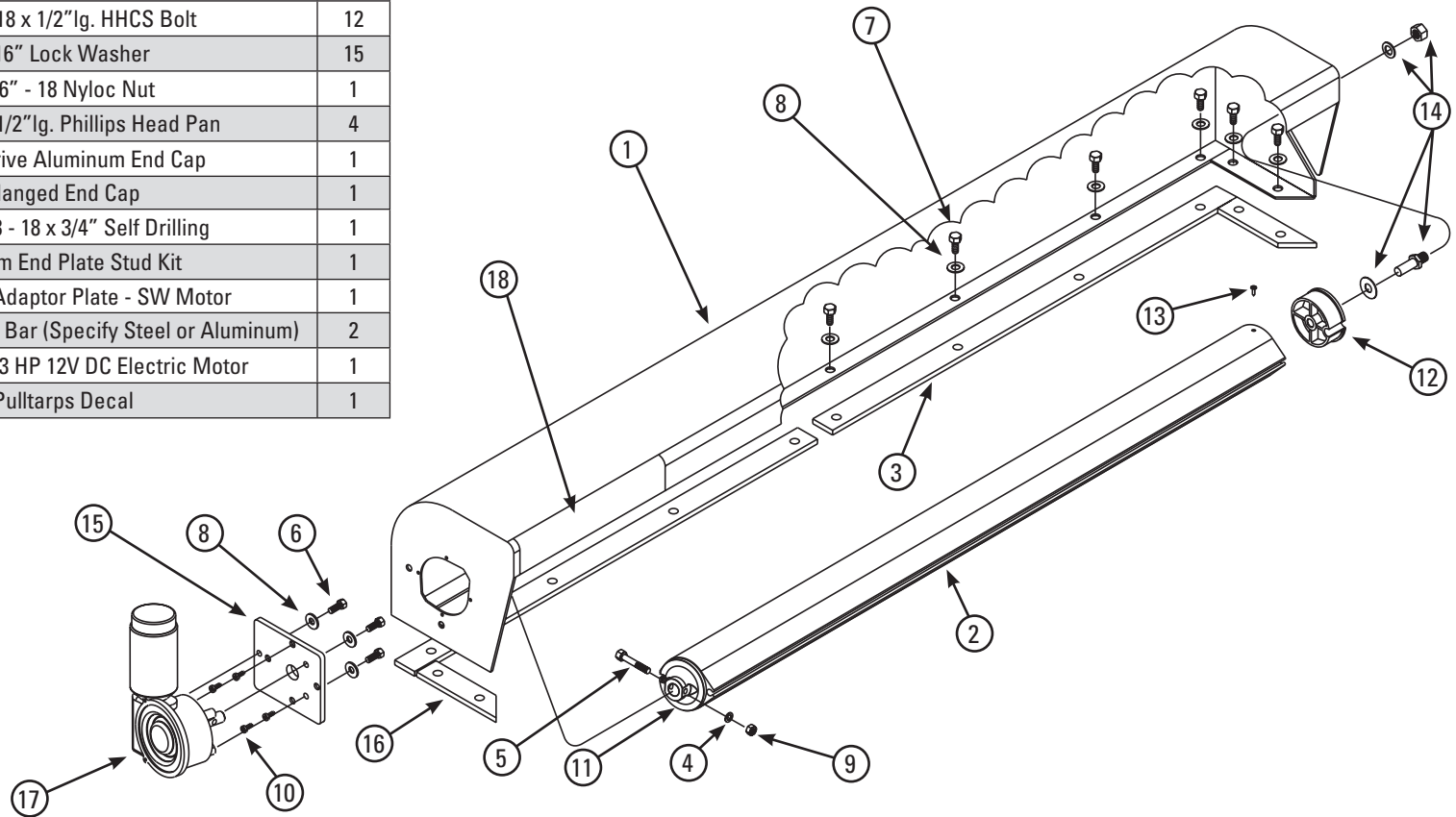


PARTS SCHEMATICS

Automatic Systems

SuperShield™ 9500E #210-0215

ITEM	PART #	DESCRIPTION	QTY
1	501-01XX	9.5" Super Shield Hsg. 80, 84, 87, 89, 93, 96, 100"	1
2	501-13XX	Roller Tube Assy. 80, 84, 87, 89, 93, 96, 100"	1
3	501-15XX	Mounting Bar 40, 42, 43.5, 44.5, 46.5, 48, 50" (Specify Steel or Aluminum)	2
4	505-2502	1/4" Flat Washer USS	1
5	503-3108	5/16" - 18 x 1-3/4"lg. HHCS Bolt	1
6	503-3105	5/16" - 18 x 1"lg. HHCS Bolt	3
7	503-3101	5/16" - 18 x 1/2"lg. HHCS Bolt	12
8	505-3102	5/16" Lock Washer	15
9	504-3103	5/16" - 18 Nyloc Nut	1
10	506-9905	#10 - 32 x 1/2"lg. Phillips Head Pan	4
11	501-9915	Roller Drive Aluminum End Cap	1
12	517-0102	Flanged End Cap	1
13	506-9916	Screw #8 - 18 x 3/4" Self Drilling	1
14	501-0632	System End Plate Stud Kit	1
15	501-1235	Aluminum Adaptor Plate - SW Motor	1
16	501-150X	6" Large Mounting Bar (Specify Steel or Aluminum)	2
17	517-5909	Pulltarps® 1.3 HP 12V DC Electric Motor	1
18	607-0061	Pulltarps Decal	1



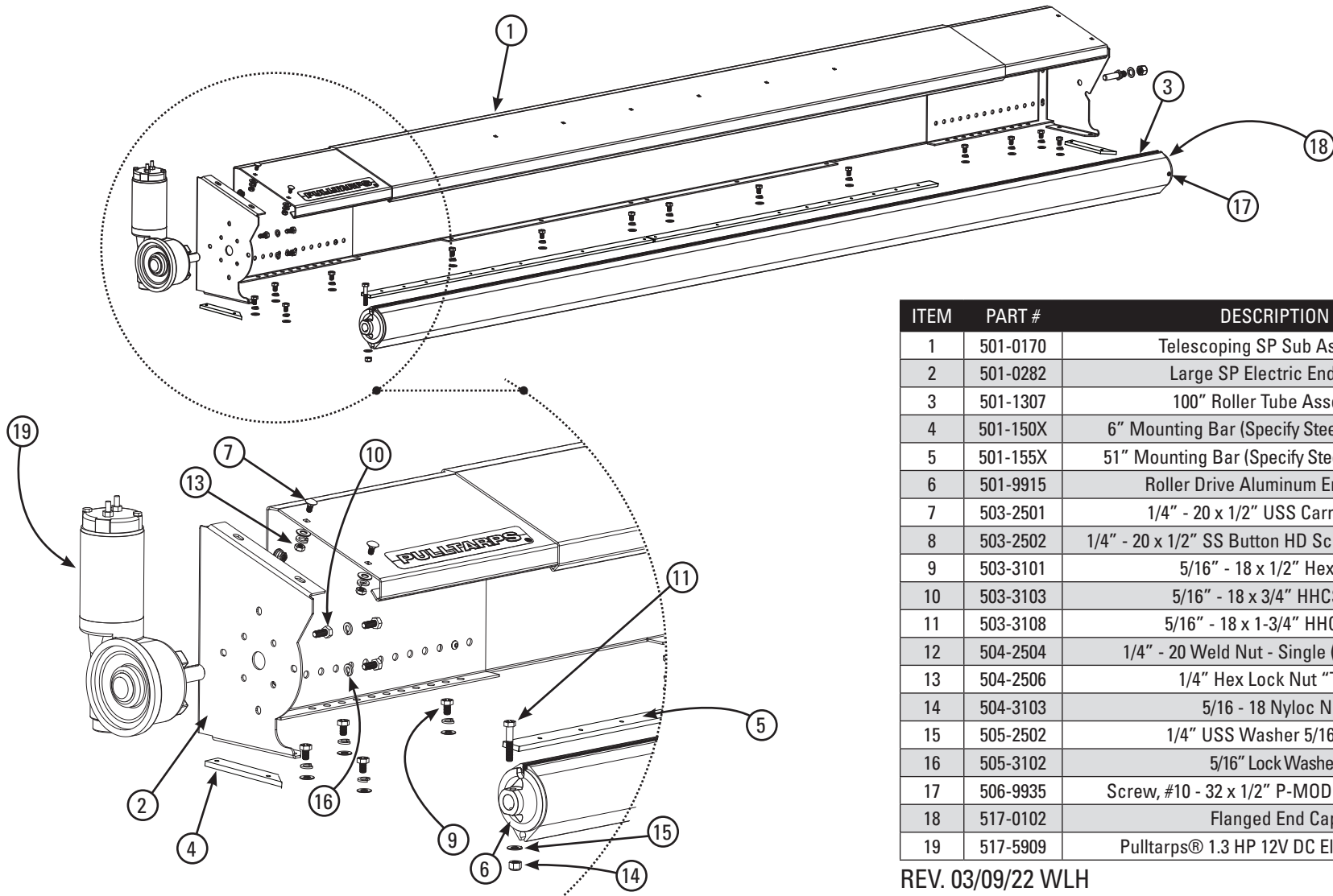
REV. 11/09/21 WLH



PARTS SCHEMATICS

Automatic Systems

X-Pando (Adjustable) #218-0215



ITEM	PART #	DESCRIPTION	QTY
1	501-0170	Telescoping SP Sub Assembly	1
2	501-0282	Large SP Electric End Plate	1
3	501-1307	100" Roller Tube Assembly	1
4	501-150X	6" Mounting Bar (Specify Steel or Aluminum)	2
5	501-155X	51" Mounting Bar (Specify Steel or Aluminum)	2
6	501-9915	Roller Drive Aluminum End cap 3"	1
7	503-2501	1/4" - 20 x 1/2" USS Carriage Bolt	5
8	503-2502	1/4" - 20 x 1/2" SS Button HD Screw (Not Shown)	4
9	503-3101	5/16" - 18 x 1/2" Hex Bolt	14
10	503-3103	5/16" - 18 x 3/4" HHCS Bolt	3
11	503-3108	5/16" - 18 x 1-3/4" HHCS Bolt	1
12	504-2504	1/4" - 20 Weld Nut - Single (Not Shown)	4
13	504-2506	1/4" Hex Lock Nut "Thin"	5
14	504-3103	5/16 - 18 Nyloc Nut	1
15	505-2502	1/4" USS Washer 5/16" Hole	6
16	505-3102	5/16" Lock Washer	17
17	506-9935	Screw, #10 - 32 x 1/2" P-MOD Truss Self Drl.	1
18	517-0102	Flanged End Cap	1
19	517-5909	Pulltarps® 1.3 HP 12V DC Electric Motor	1

REV. 03/09/22 WLH



High Mount Extended Reach Arm System #501-1766 (With Wire)

#501-1767 (No Wire)

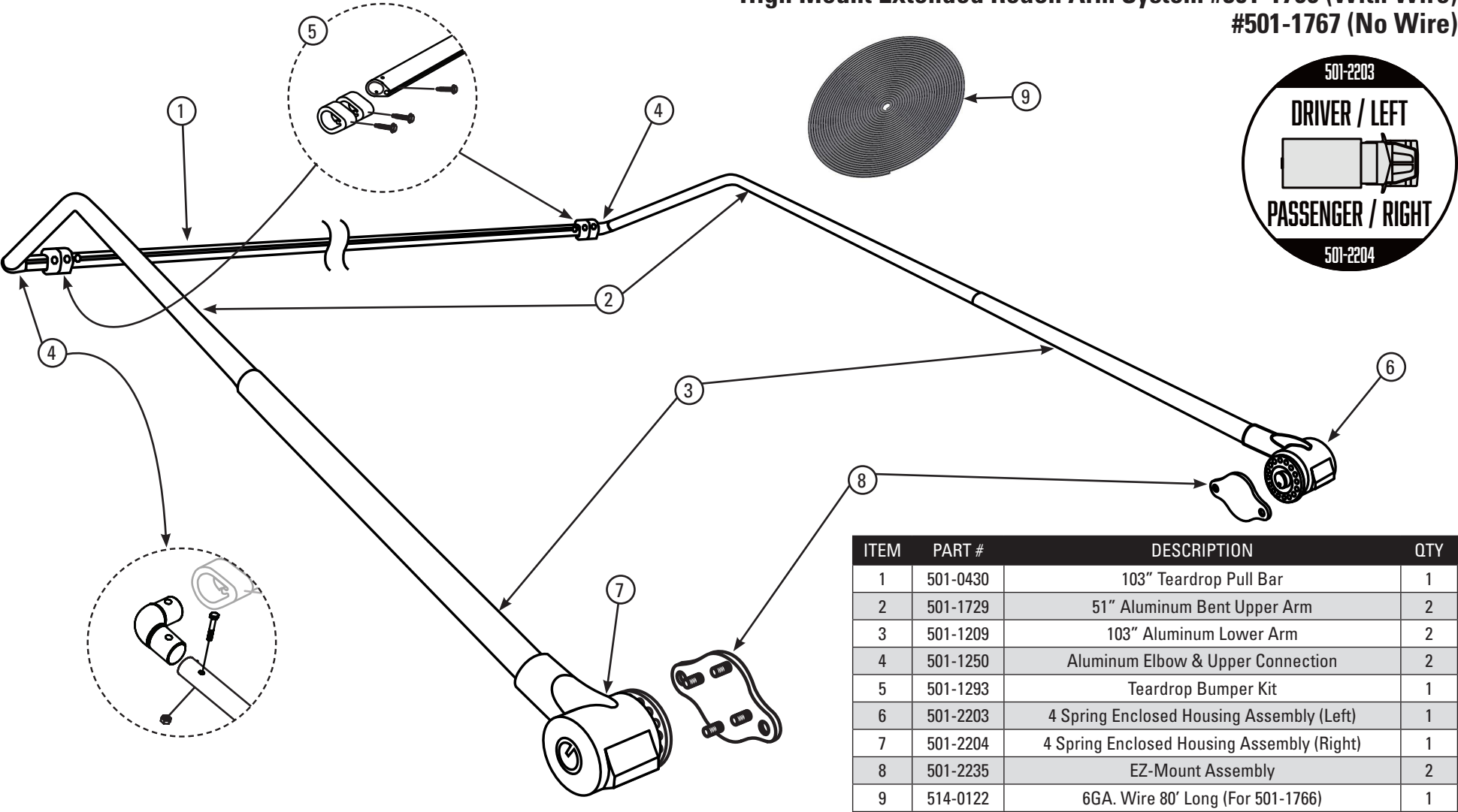


Illustration view shown looking from passenger side to rear of vehicle.

REV. 09/09/20 WLH



EZ-Mount 4 Spring Arm System #501-1768 (With Wire)
#501-1769 (No Wire)

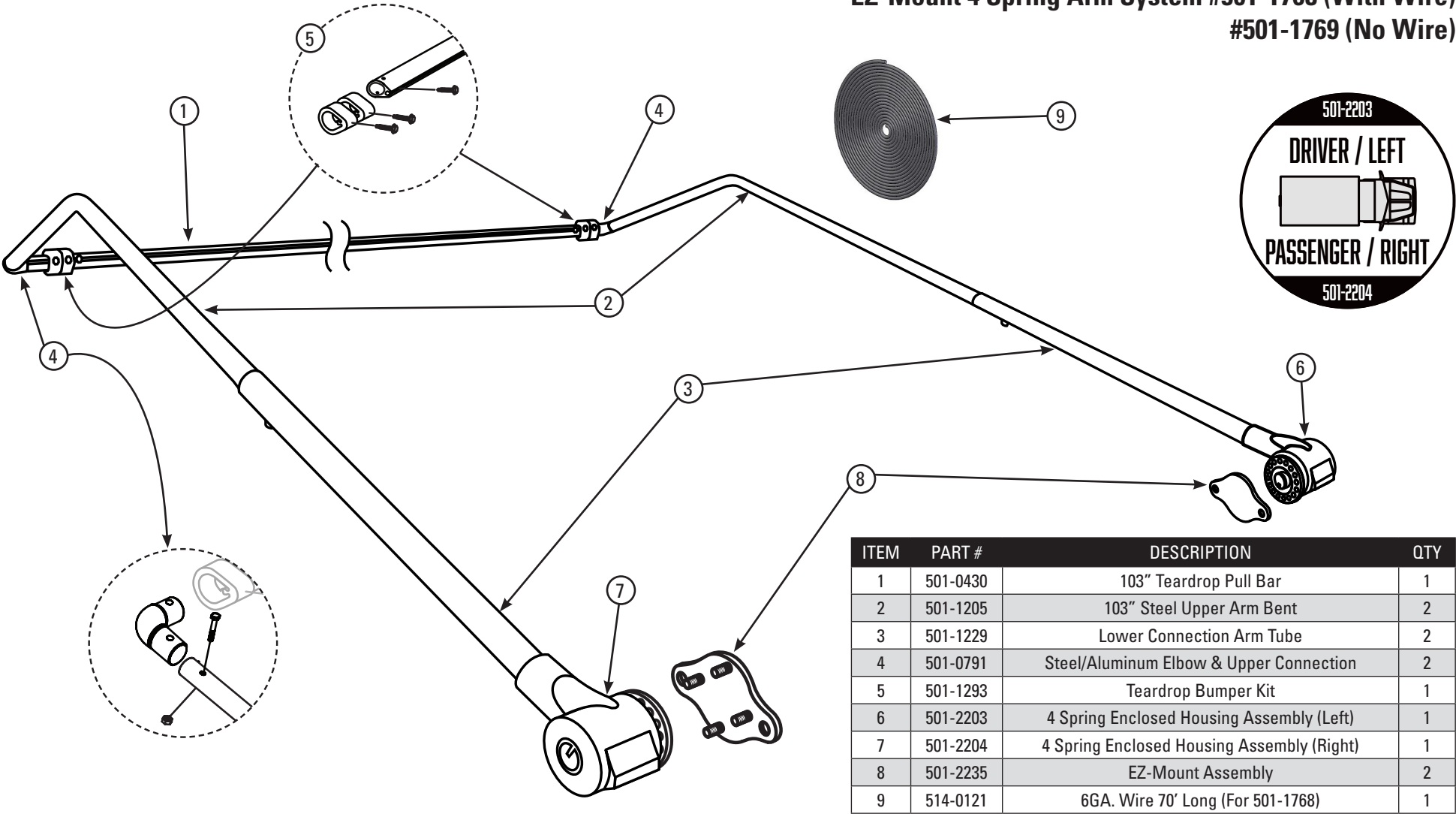


Illustration view shown looking from passenger side to rear of vehicle.

REV. 09/09/20 WLH



PARTS SCHEMATICS

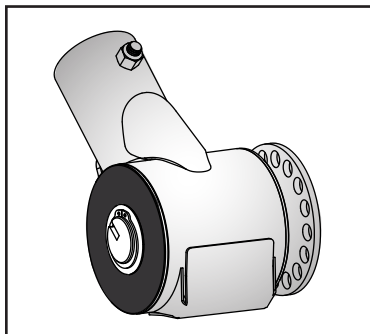
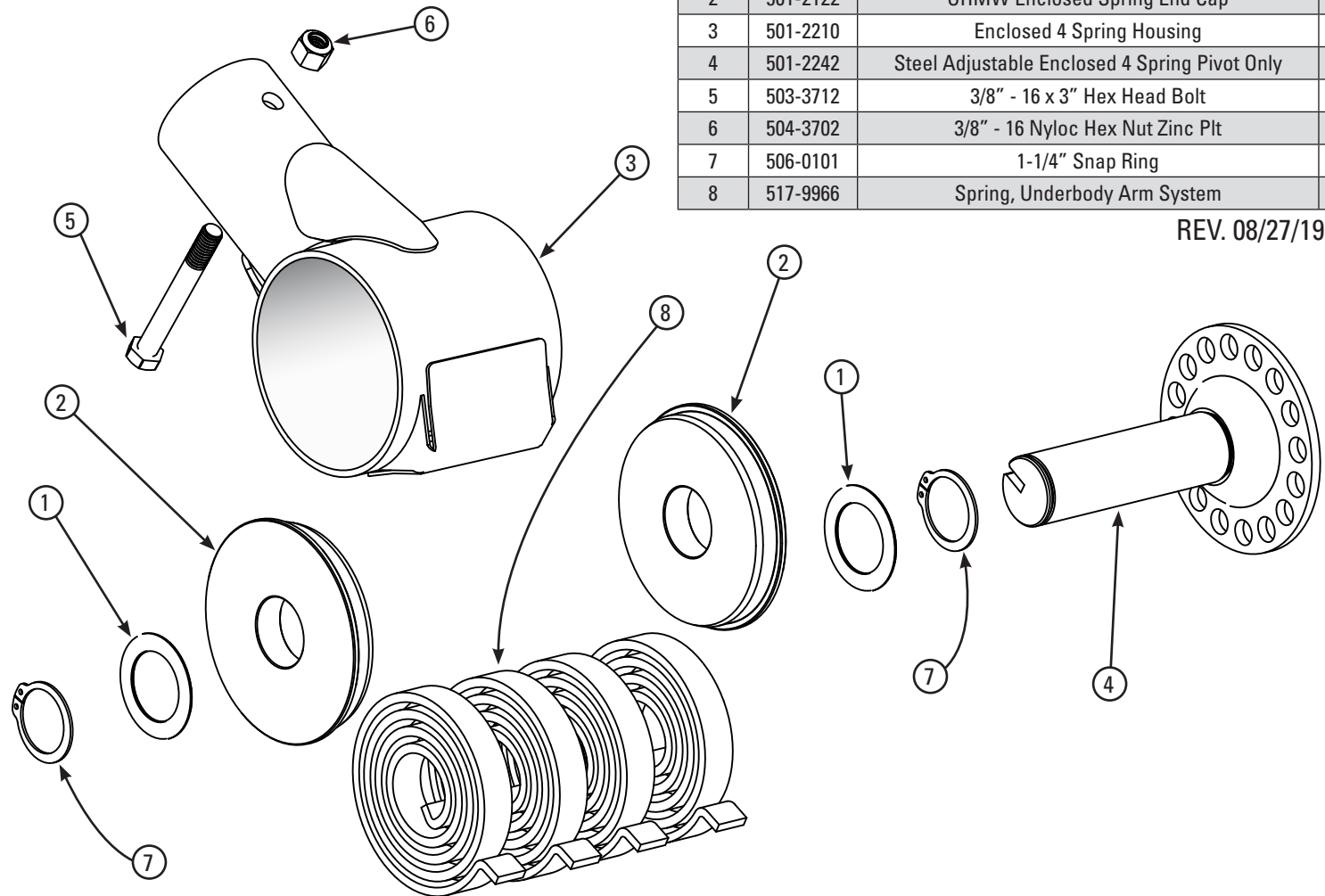
Automatic Systems

4 Spring Enclosed Housing Assembly Right #501-2204 (not shown) & Left #501-2203 (shown)



ITEM	PART #	DESCRIPTION	QTY
1	501-1162	Washer 1-7/8" x 1-1/4" Narrow Rim Bushing	2
2	501-2122	UHMW Enclosed Spring End Cap	2
3	501-2210	Enclosed 4 Spring Housing	1
4	501-2242	Steel Adjustable Enclosed 4 Spring Pivot Only	1
5	503-3712	3/8" - 16 x 3" Hex Head Bolt	1
6	504-3702	3/8" - 16 Nyloc Hex Nut Zinc Plt	1
7	506-0101	1-1/4" Snap Ring	2
8	517-9966	Spring, Underbody Arm System	4

REV. 08/27/19 WLH



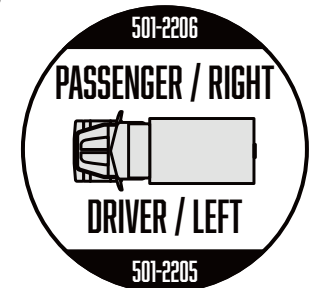
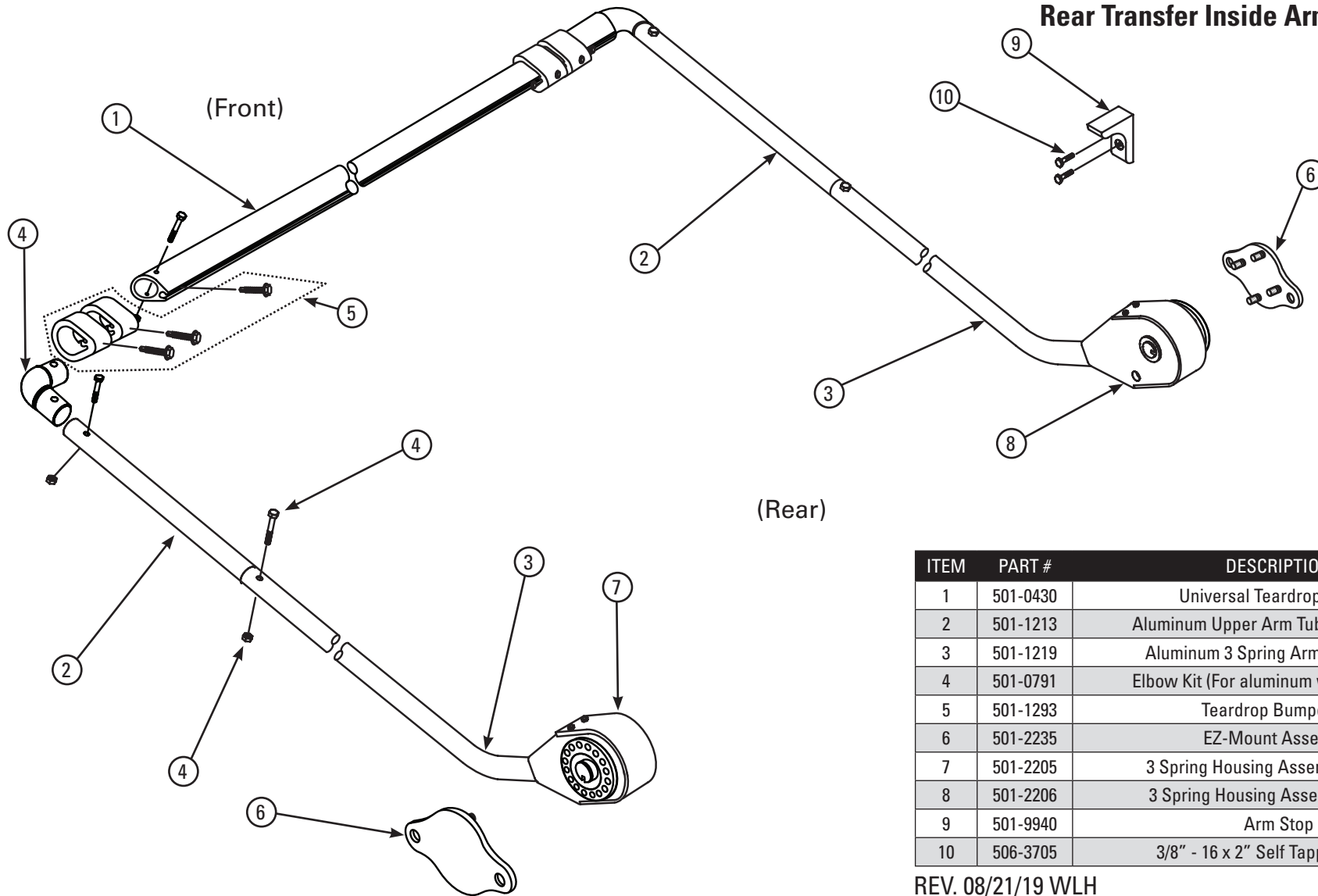
Assembled View of 501-2203



PARTS SCHEMATICS

Automatic Systems

Rear Transfer Inside Arm System #501-1780



ITEM	PART #	DESCRIPTION	QTY
1	501-0430	Universal Teardrop Pullrod	1
2	501-1213	Aluminum Upper Arm Tubing, 51-3/8"lg.	2
3	501-1219	Aluminum 3 Spring Arm Tube, 55"lg.	2
4	501-0791	Elbow Kit (For aluminum with Teardrop)	2
5	501-1293	Teardrop Bumper Kit	1
6	501-2235	EZ-Mount Assembly	2
7	501-2205	3 Spring Housing Assembly (Driver)	1
8	501-2206	3 Spring Housing Assembly (Pass.)	1
9	501-9940	Arm Stop	2
10	506-3705	3/8" - 16 x 2" Self Tapping Screw	4

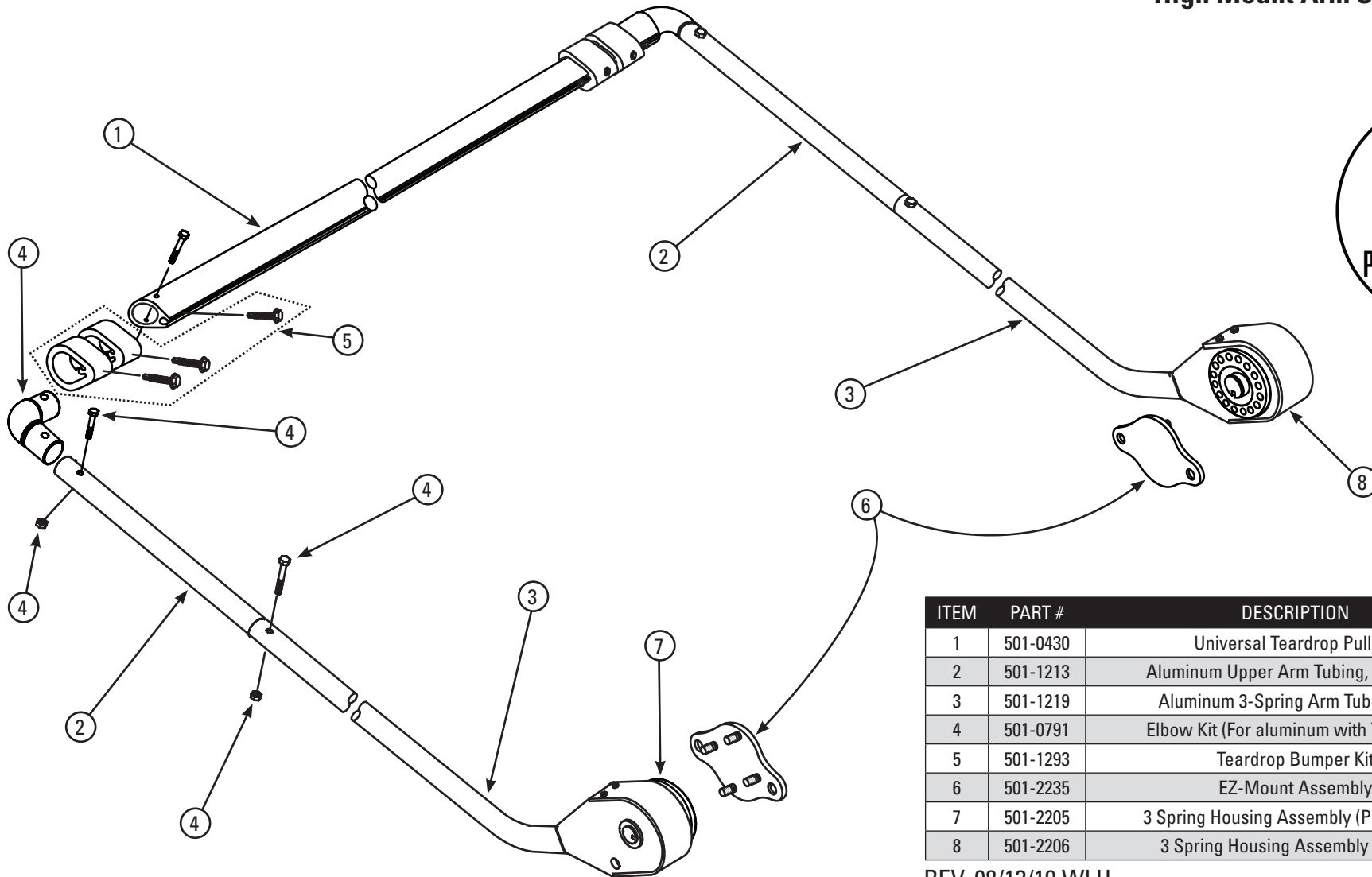
REV. 08/21/19 WLH



PARTS SCHEMATICS

Automatic Systems

High Mount Arm System #501-1781



ITEM	PART #	DESCRIPTION	QTY
1	501-0430	Universal Teardrop Pullrod	1
2	501-1213	Aluminum Upper Arm Tubing, 51-3/8"lg.	2
3	501-1219	Aluminum 3-Spring Arm Tube, 55"lg.	2
4	501-0791	Elbow Kit (For aluminum with Teardrop)	2
5	501-1293	Teardrop Bumper Kit	1
6	501-2235	EZ-Mount Assembly	1
7	501-2205	3 Spring Housing Assembly (Passenger)	1
8	501-2206	3 Spring Housing Assembly (Driver)	1

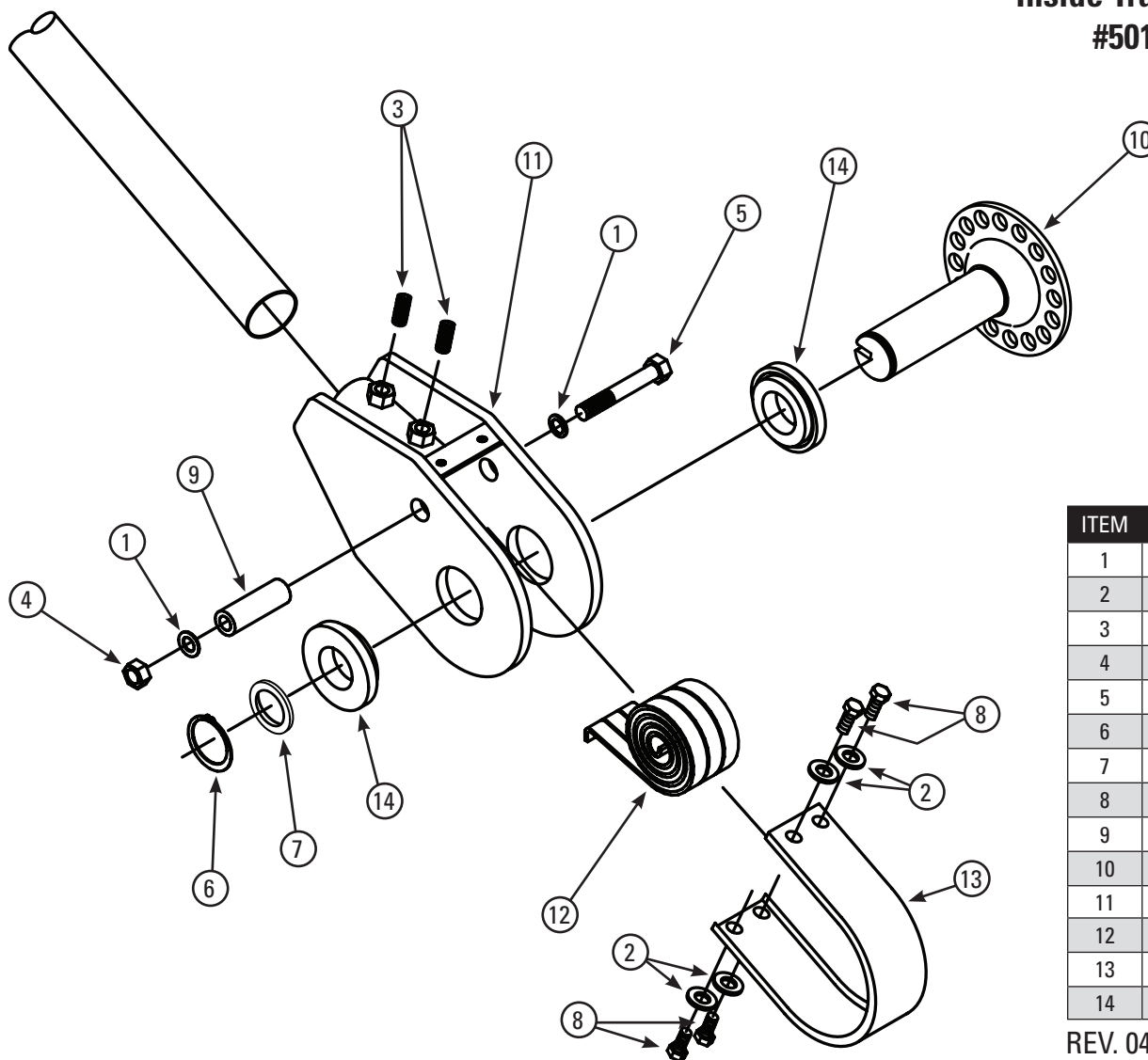
REV. 08/13/19 WLH



PARTS SCHEMATICS

Automatic Systems

Inside Transfer / Hight Mount 3 Spring Housing Assembly #501-2205(Driver-Opposite), 501-2206 (Pass.-Shown)



ITEM	PART #	DESCRIPTION	QTY
1	505-5001	1/2" AN Flat Washer	2
2	505-2502	1/4" Flat Washer USS	4
3	503-5008	1/2" - 13 x 3/4" Set Screw	2
4	504-5004	1/2" - 13 Nyloc Nut	1
5	503-5011	1/2" - 13 x 3-1/4"lg. HHCS Bolt	1
6	506-0101	1-1/4" Snap Ring	1
7	501-1162	Washer, 1-7/8" x 1-1/4" Narrow Rim Bush	1
8	503-2503	1/4" - 20 x 1/2"lg. HHCS Bolt	4
9	501-1158	Spring Connection - Arm System	1
10	501-2243	Steel Adjustable 3 & 4 Spring Pivot Only	1
11	501-1109	Spring Side Plate Assembly	1
12	517-9921	Small Spring for Arm System	3
13	501-1151	Arm Dust Cover	1
14	501-1155	UHMW Pivot Retainer 2-1/2" Dia.	2

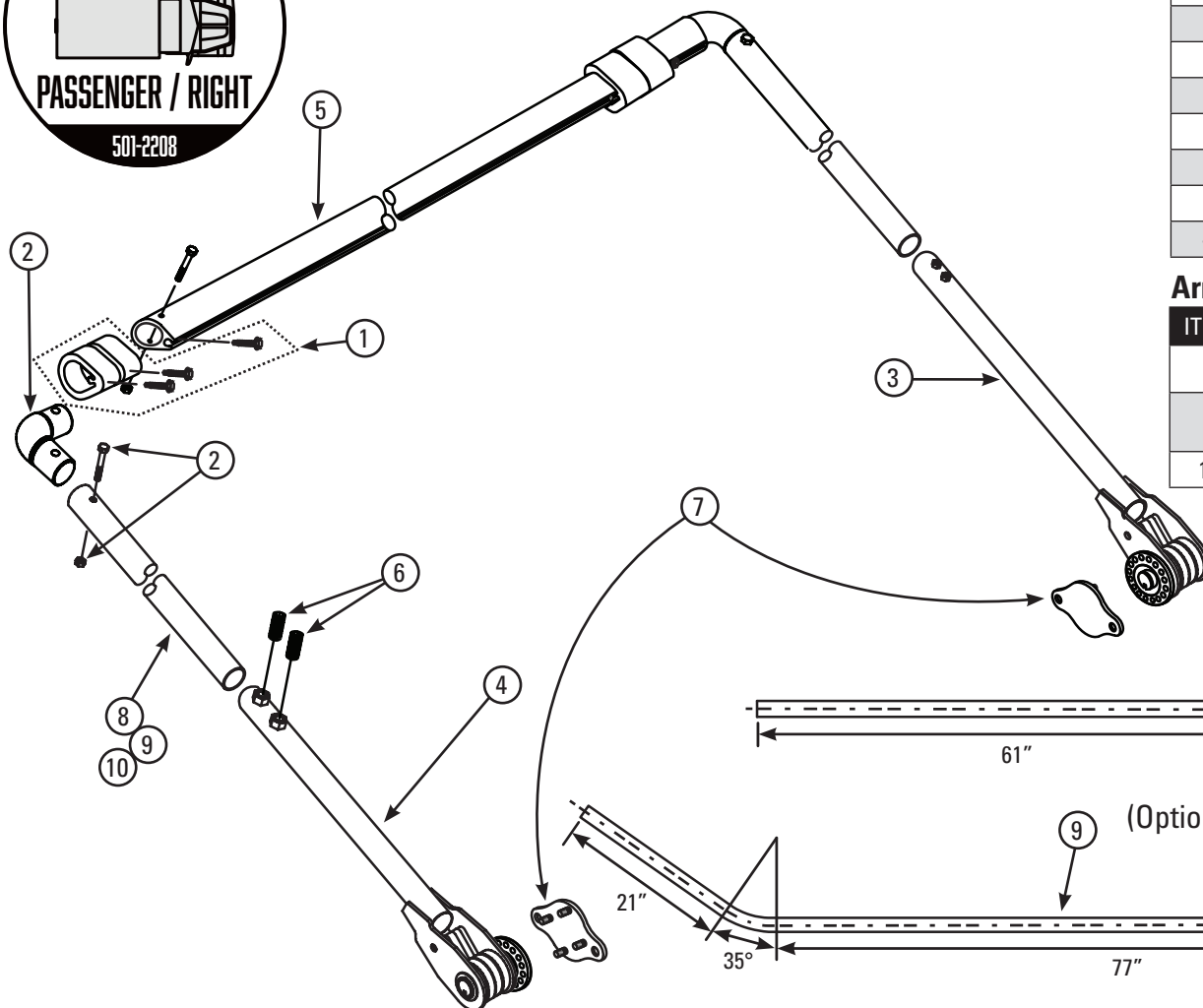
REV. 04/18/19 WLH



PARTS SCHEMATICS

Automatic Systems

Steel Arms to 22' #501-1756, 501-1755

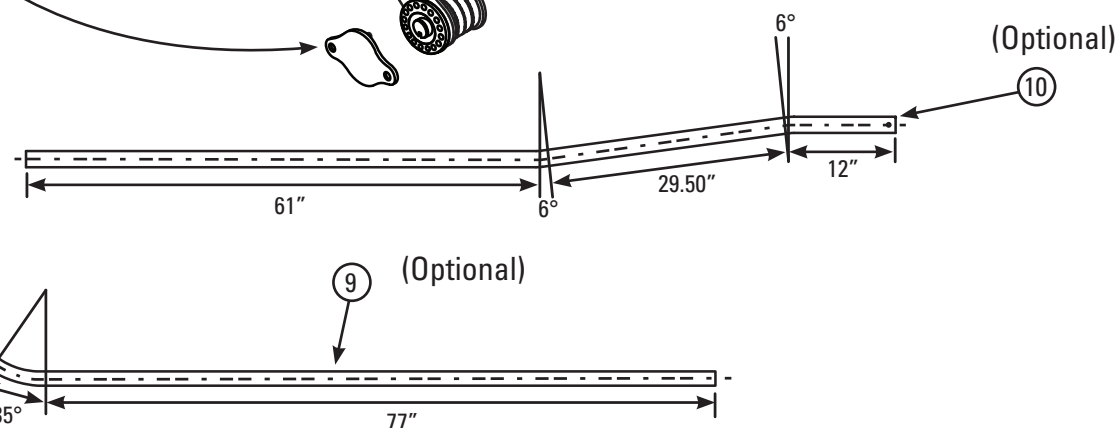


ITEM	PART #	DESCRIPTION	QTY
1	501-1293	Teardrop Bumper Kit	1
2	501-1251	Elbow Kit (For Steel)	1
3	501-2207	4 Spring Housing (Driver Side)	1
4	501-2208	4 Spring Housing (Pass. Side)	1
5	501-0430	Universal Teardrop Pullrod	1
6	506-5008	1/2" - 13 x 3/4"lg. Set Screw	4
7	501-2235	EZ-Mount Assembly	1
--	514-0120	6 Ga. Electric Wire	60'

Arm Options

ITEM	PART #	DESCRIPTION	QTY
8	501-1202	Steel Upper Arm Tubing (Included in 501-0782)	2
9	501-1205	Upper Arm Tubing, Drilled and Bent (Included in 501-0749)	2
10	501-1207	Offset Upper Arm Tube	2

REV. 08/21/19 WLH

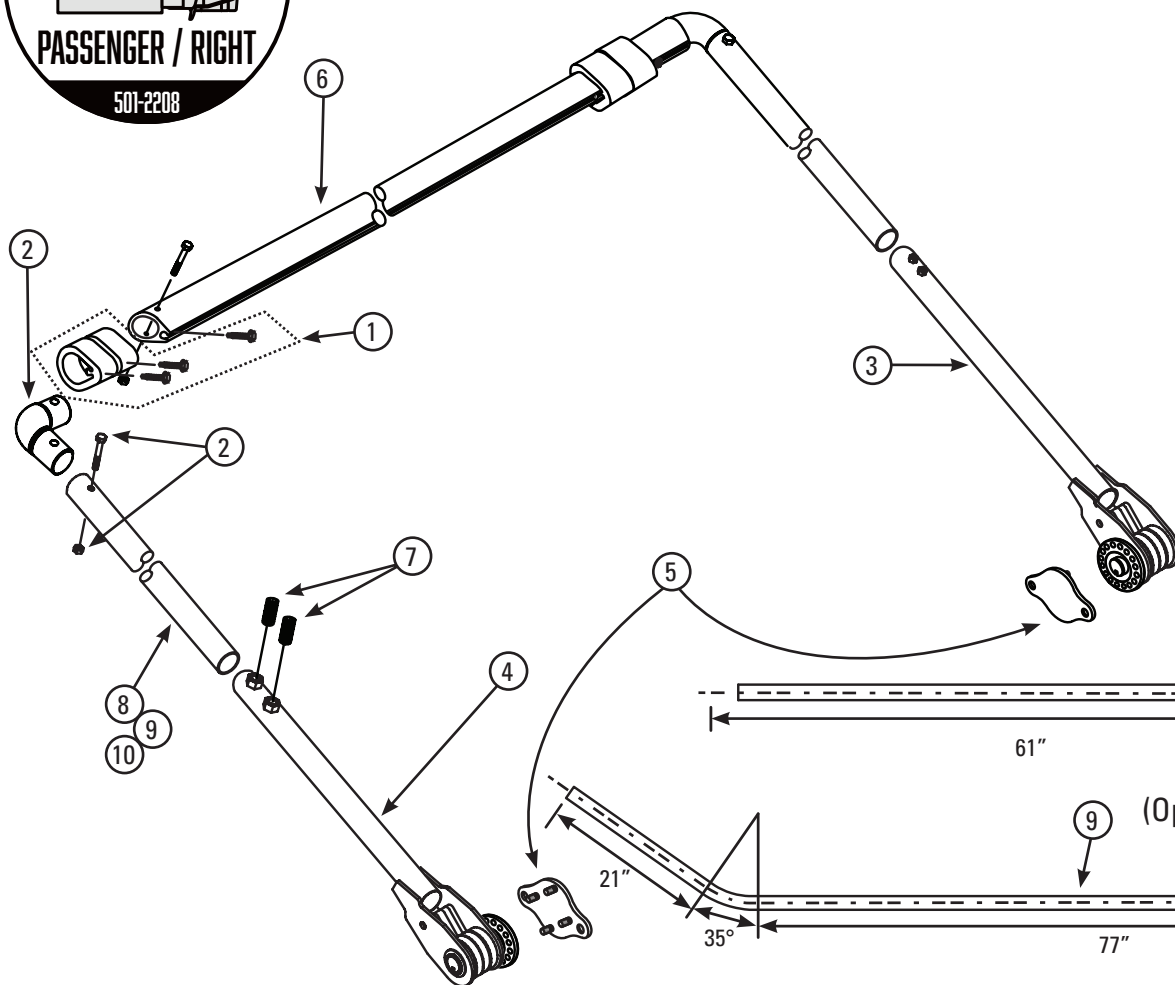




PARTS SCHEMATICS

Automatic Systems

Steel Arms to 22' #501-1703, 501-1704

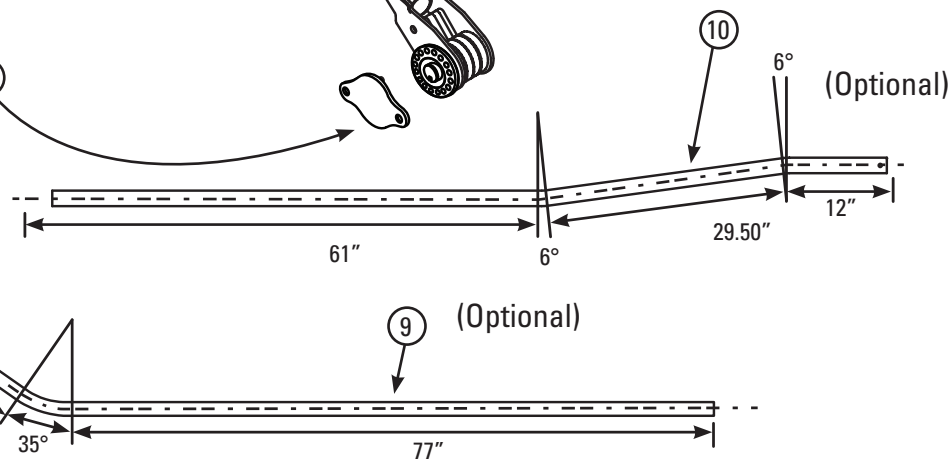


ITEM	PART #	DESCRIPTION	QTY
1	501-1293	Teardrop Bumper Kit	1
2	501-1251	Elbow Kit (For Steel)	1
3	501-2207	4 Spring Housing (Driver Side)	1
--	501-1253	Steel Offset 4 Spring Hsg. (Driver Side)	1
4	501-2208	4 Spring Housing (Pass. Side)	1
--	501-1254	Steel Offset 4 Spring Hsg. (Pass. Side)	1
5	501-2235	EZ-Mount Assembly	1
6	501-0430	Universal Teardrop Pullrod	1
7	506-5008	1/2" - 13 x 3/4"lg. Set Screw	4
--	514-0120	6 Ga. Electric Wire	60'

Arm Options

ITEM	PART #	DESCRIPTION	QTY
8	501-1202	Steel Upper Arm Tubing	2
9	501-1205	Upper Arm Tubing, Drilled and Bent	2
10	501-1207	Offset Upper Arm Tube	2

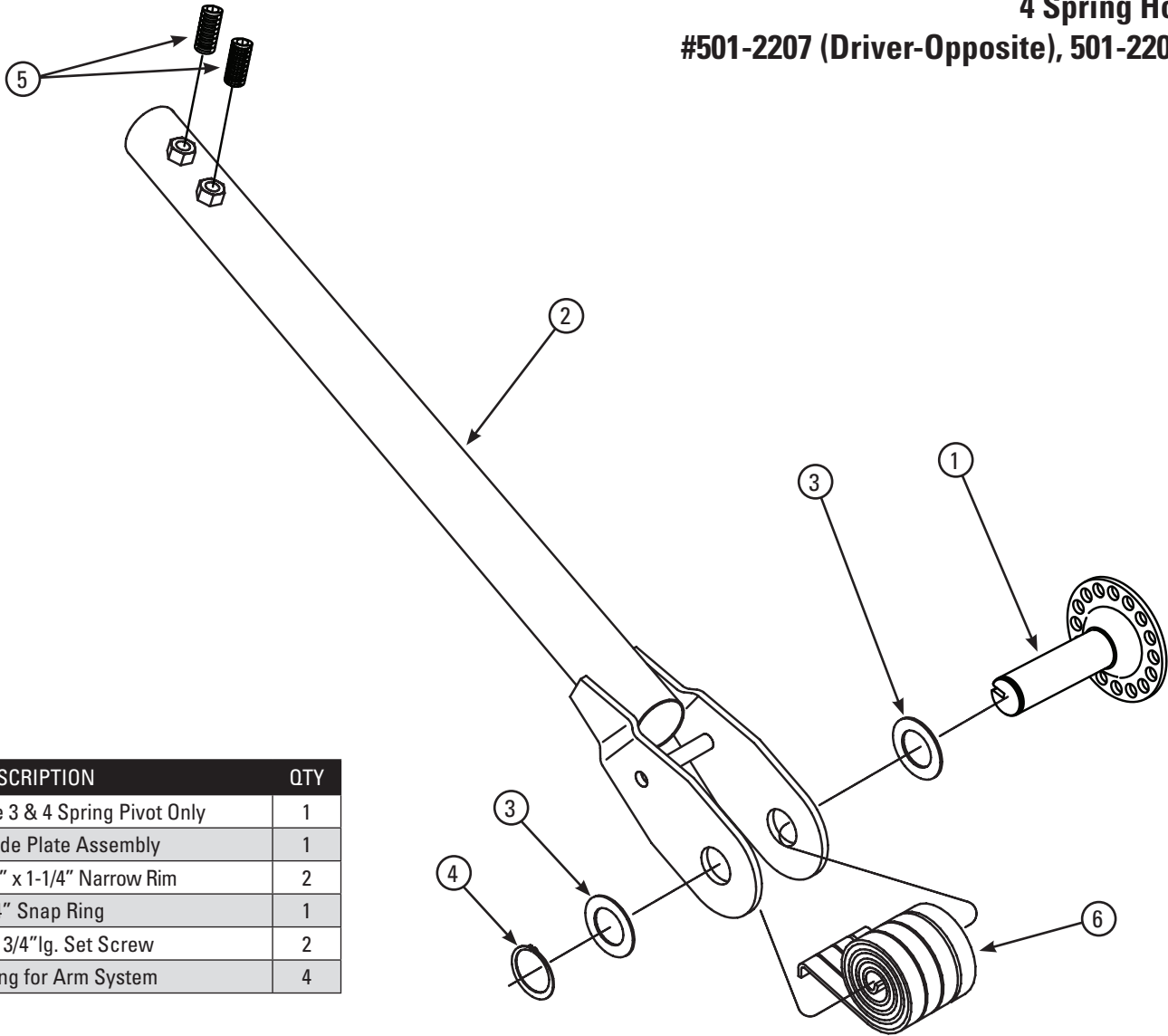
REV. 08/21/19 WLH





4 Spring Housing Assembly

#501-2207 (Driver-Opposite), 501-2208 (Pass.-Shown)



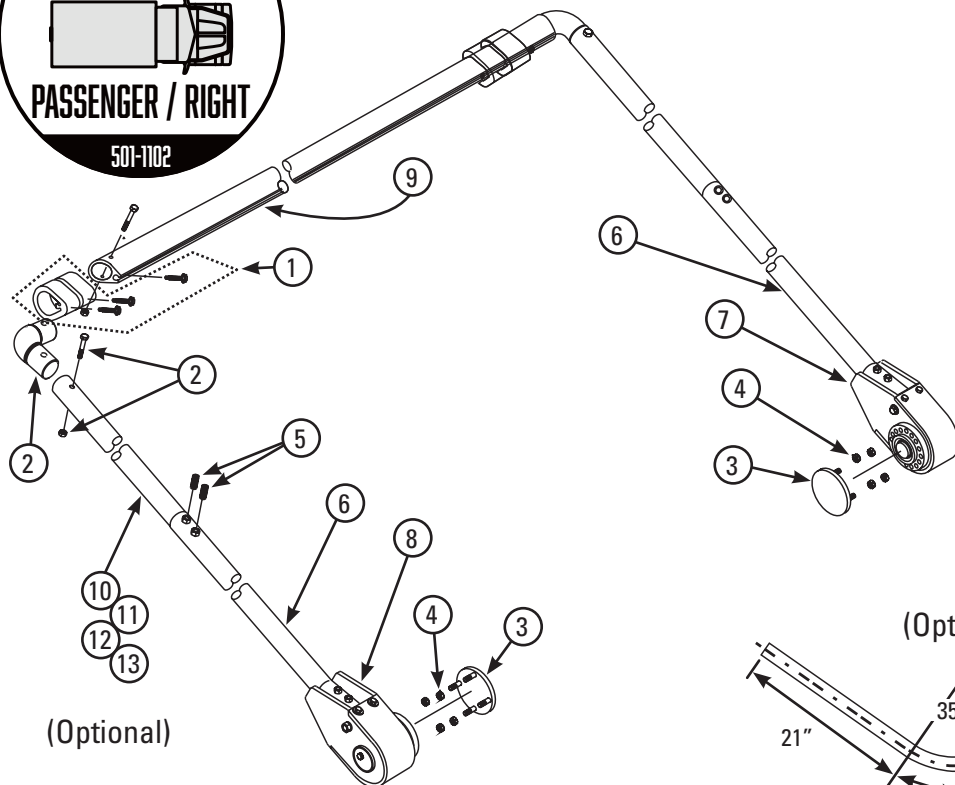
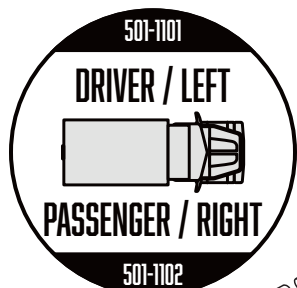
ITEM	PART #	DESCRIPTION	QTY
1	501-2243	Steel Adjustable 3 & 4 Spring Pivot Only	1
2	501-1110	4 Spring Side Plate Assembly	1
3	501-1162	Washer, 1 7/8" x 1-1/4" Narrow Rim	2
4	506-0101	1 1/4" Snap Ring	1
5	503-5008	1/2" - 13 x 3/4"lg. Set Screw	2
6	517-9921	Small Spring for Arm System	4

REV. 04/12/19 WLH



PARTS SCHEMATICS

Automatic Systems



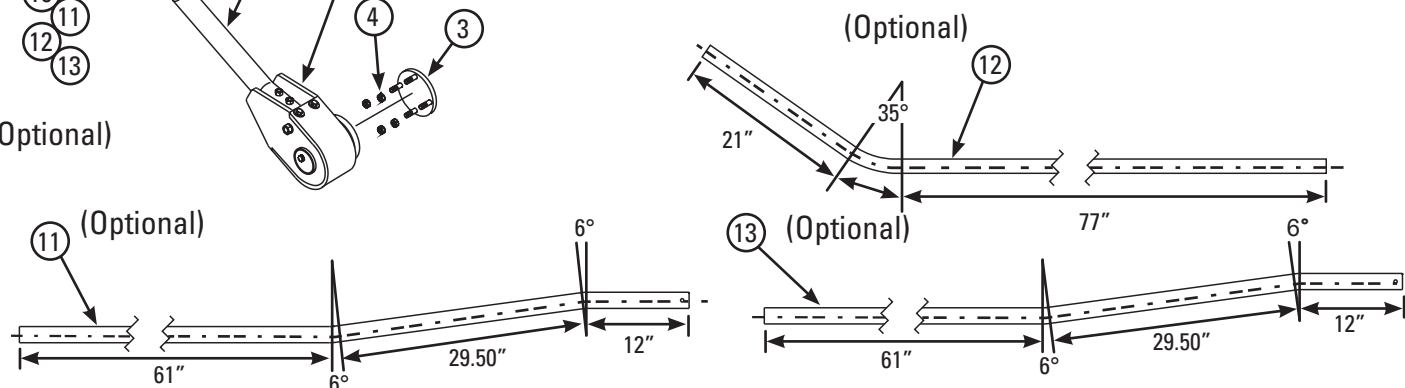
Single Spring Pivots with Steel Arms #501-0713, 501-1763

ITEM	PART #	DESCRIPTION	QTY
1	501-1293	Teardrop Bumper Kit	1
2	501-1251	Elbow Kit (For Steel)	1
3	501-2237	4" Arm Adaptor Plate Assembly	2
4	504-3705	3/8" - 16 Nyloc Nut (Thin)	8
5	506-5008	1/2" - 13 x 3/4"lg. Set Screw	4
6	501-1201	Lower Arm with Nuts	2
7	501-1101	Single Spring Housing (Driver)	1
8	501-1102	Single Spring Housing (Passenger)	1
9	501-0430	Universal Teardrop Pullbar	1
--	514-0213	6Ga. Electric Wire	90'

Arm Options

ITEM	PART #	DESCRIPTION	QTY
10	501-1202	Steel Upper Arm Tubing	2
11	501-1204	Offset Upper Arm Tube	2
12	501-1205	Upper Arm Tubing, Drilled and Bent	2
13	501-1207	Offset Upper Arm Tube	2

REV. 12/20/21 WLH

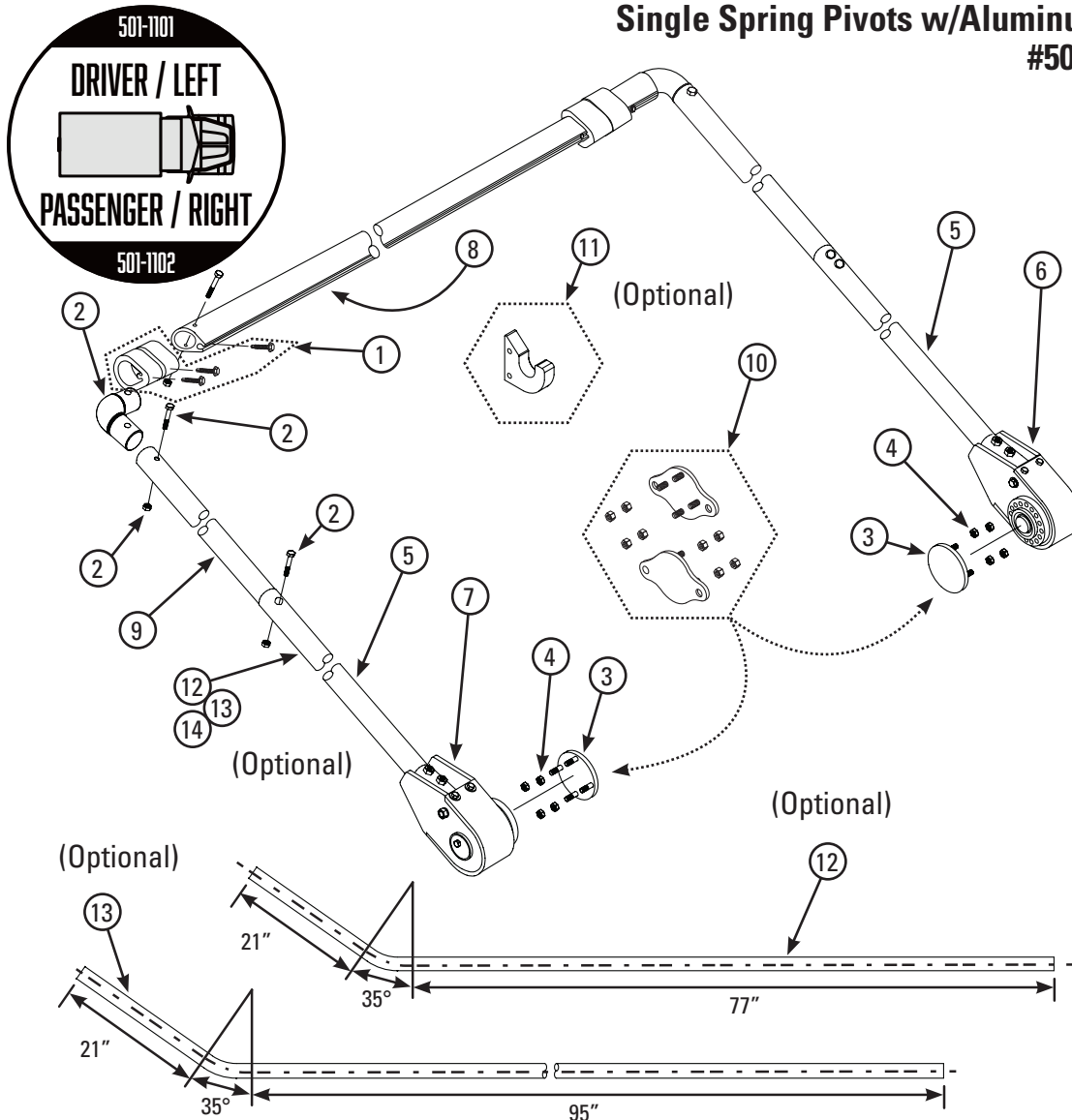




PARTS SCHEMATICS

Automatic Systems

Single Spring Pivots w/Aluminum Arms #501-0714, 501-0731, 501-1764, 501-1765 (No Wire) #501-0764, 501-0765, 501-0785, 501-0786 (With Wire 90' & 100')



ITEM	PART #	DESCRIPTION	QTY
1	501-1293	Teardrop Bumper Kit	1
2	501-0791	Elbow Kit (For Alum. with Teardrop)	1
3	501-2237	4" Arm Adaptor Plate Assembly	2
4	504-3705	3/8" - 16 Nyloc Nut (Thin)	8
5	501-1209	Aluminum Lower Arm Tube	2
6	501-1101	Single Spring Housing (Driver)	1
7	501-1102	Single Spring Housing (Passenger)	1
8	501-0430	Universal Teardrop Pullbar	1

Options

ITEM	PART #	DESCRIPTION	QTY
9	501-1211	Aluminum Upper Arm or Pullrod	2
10	501-2235	EZ-Mount Assembly	2
11	501-1247	Arm Catcher Assembly (Optional)	1
12	501-1214	Upper Arm Tubing, Drilled and Bent	2
13	501-1216	Aluminum Upper Arm Tube Bent - 10'	2
14	501-1212	Aluminum Upper Arm Tube - 10'	2

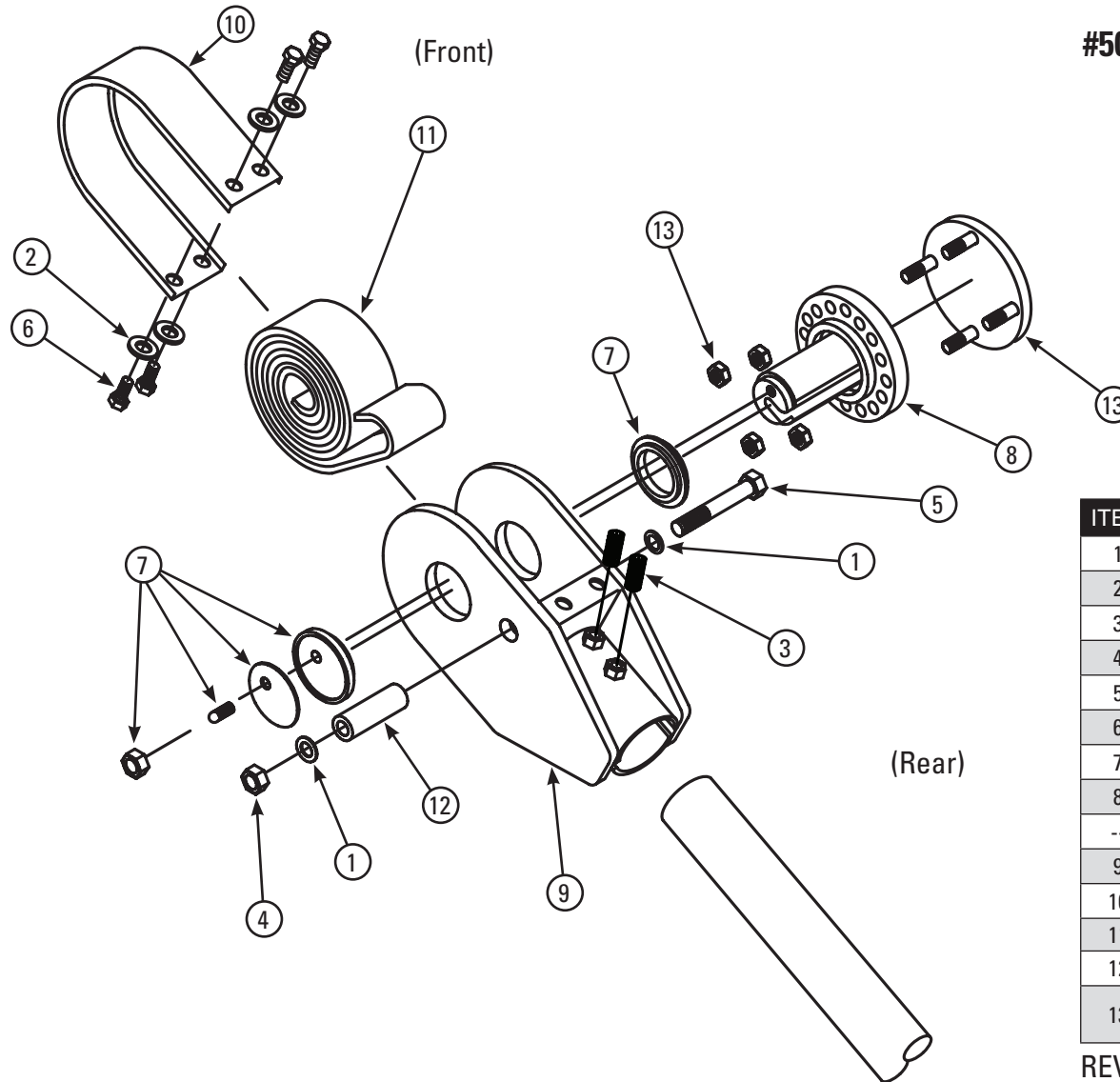
REV. 12/20/21 WLH



PARTS SCHEMATICS

Automatic Systems

Single Spring Housing Assembly #501-1101 (Driver-Shown), #501-1102 (Pass.-Opposite)

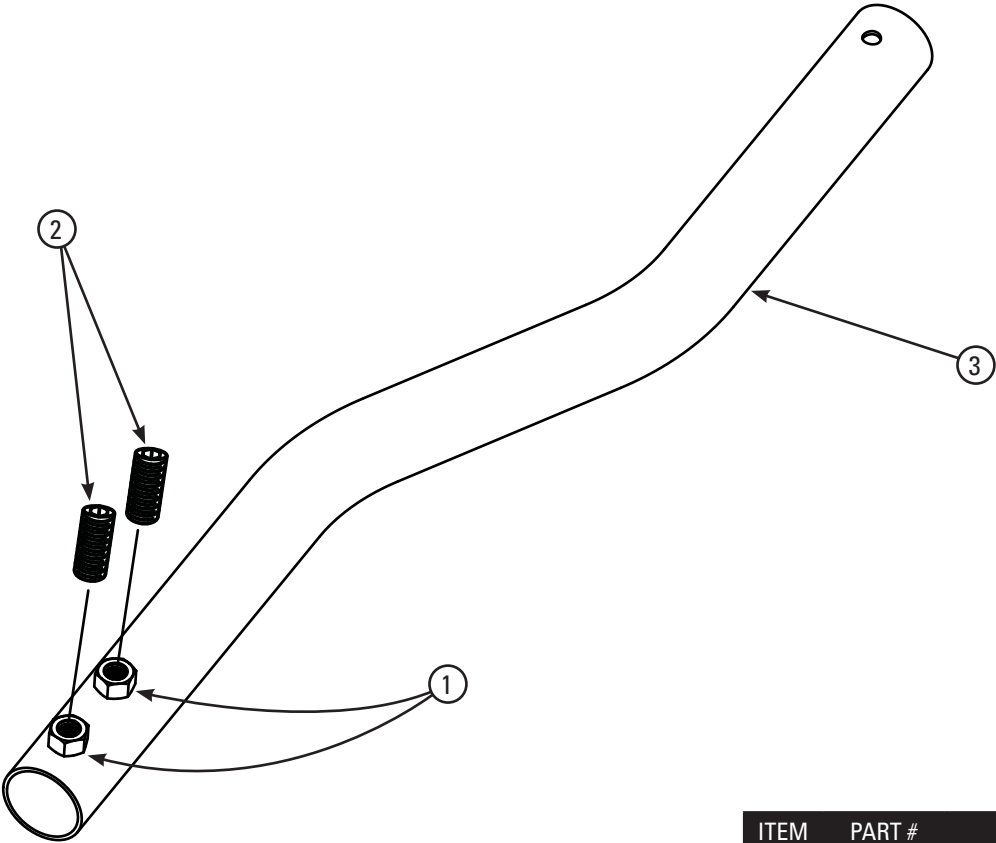


ITEM	PART #	DESCRIPTION	QTY
1	505-5001	1/2" AN Flat Washer	2
2	505-2502	1/4" Flat Washer USS	4
3	506-5008	1/2" - 13 x 3/4" Set Screw	2
4	504-5004	1/2" - 13 Nyloc Nut	1
5	503-5011	1/2" - 13 x 3-1/4"lg. HHCS Bolt	1
6	503-2503	1/4" - 20 x 1/2"lg. HHCS Bolt	4
7	501-1181	Bushing Kit	1
8	501-1119	Pivot Assembly (Driver)	1
--	501-1120	Pivot Assembly (Passenger-Not Shown)	1
9	501-1109	Spring Side Plate Assembly	1
10	501-1151	Arm Dust Cover	1
11	501-1156	Rolled Spring Assembly with Strip	1
12	501-1158	Spring Connection (Arm System)	1
13	501-2237	4" Arm Adaptor Plate Assembly (Not part of Kit - Must be ordered separately.)	1

REV. 10/13/16 WLH



34" Steel Offset Arm #501-1203 (Left), 501-1204 (Right)



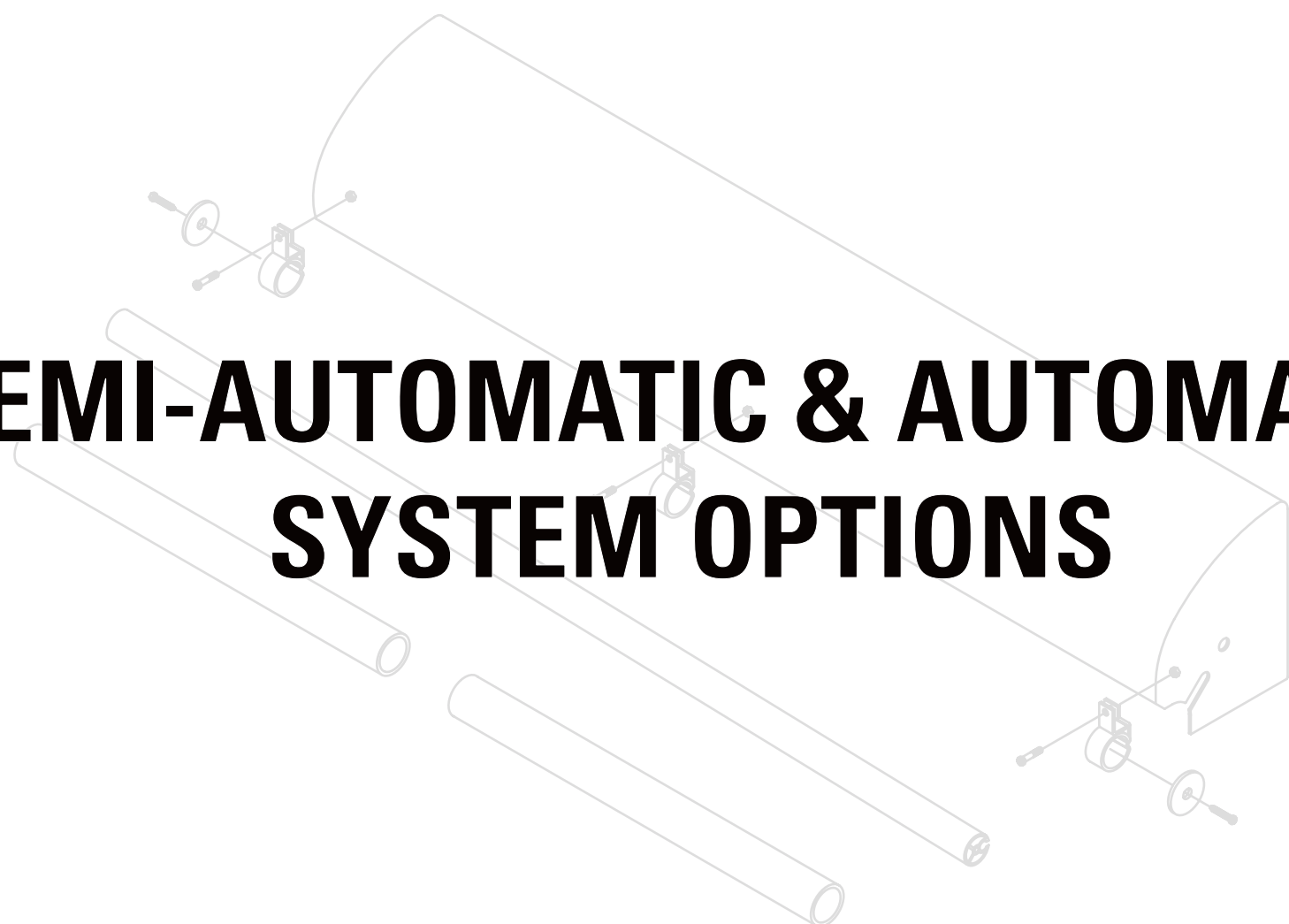
(Left Offset Arm Shown)

ITEM	PART #	DESCRIPTION	QTY
1	504-5003	1/2" - 13 Nut - Unplated	2
2	506-5008	1/2" - 13 x 3/4" Set Screw	2
3	517-0343	Tubing, Galvanized 1.9X .090X	1

REV. 04/12/19 WLH



SEMI-AUTOMATIC & AUTOMATIC SYSTEM OPTIONS





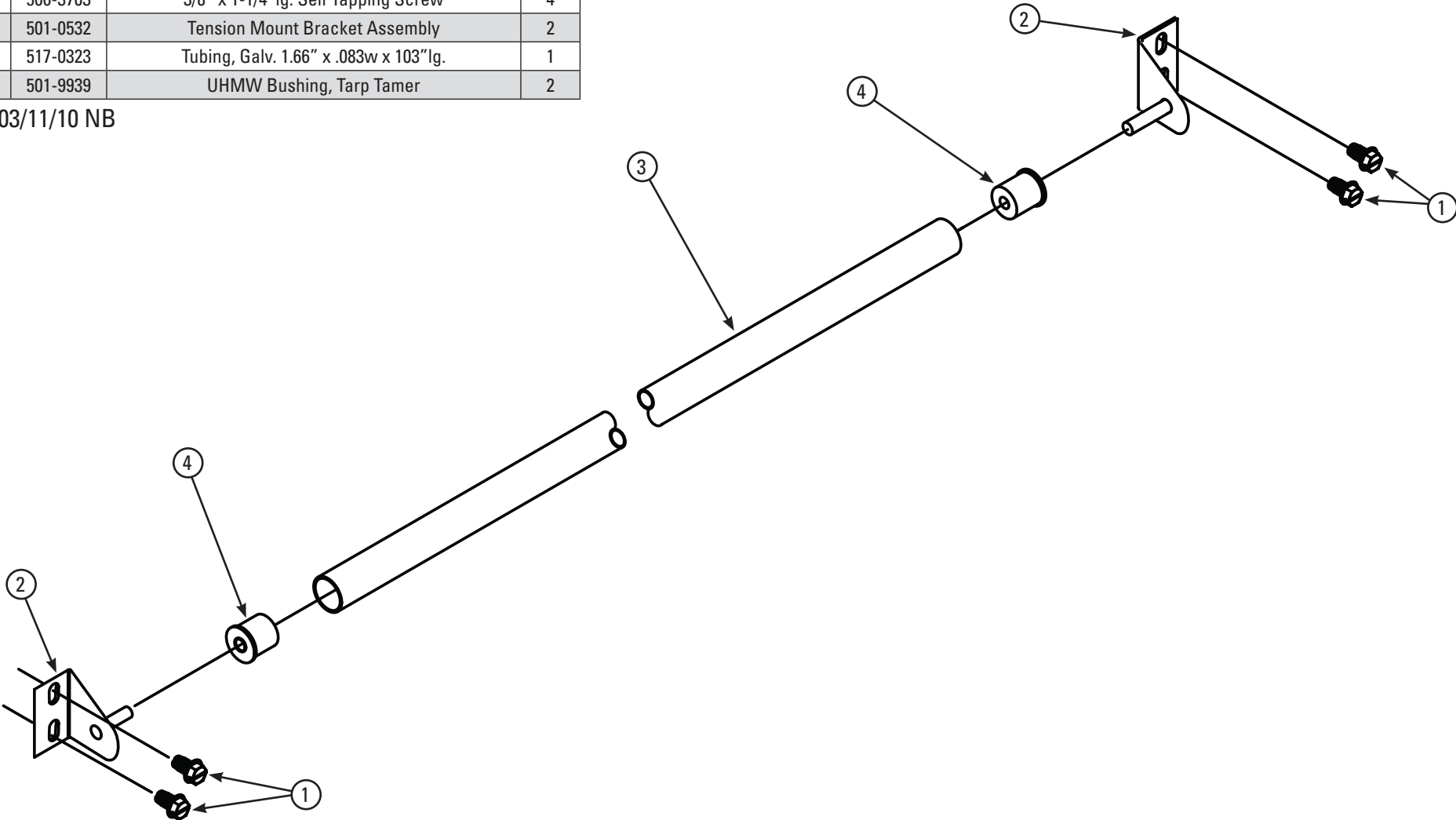
PARTS SCHEMATICS

Semi-Automatic & Automatic Options

ITEM	PART #	DESCRIPTION	QTY
1	506-3703	3/8" x 1-1/4"lg. Self Tapping Screw	4
2	501-0532	Tension Mount Bracket Assembly	2
3	517-0323	Tubing, Galv. 1.66" x .083w x 103"lg.	1
4	501-9939	UHMW Bushing, Tarp Tamer	2

REV. 03/11/10 NB

Tarp Tamer #501-0701



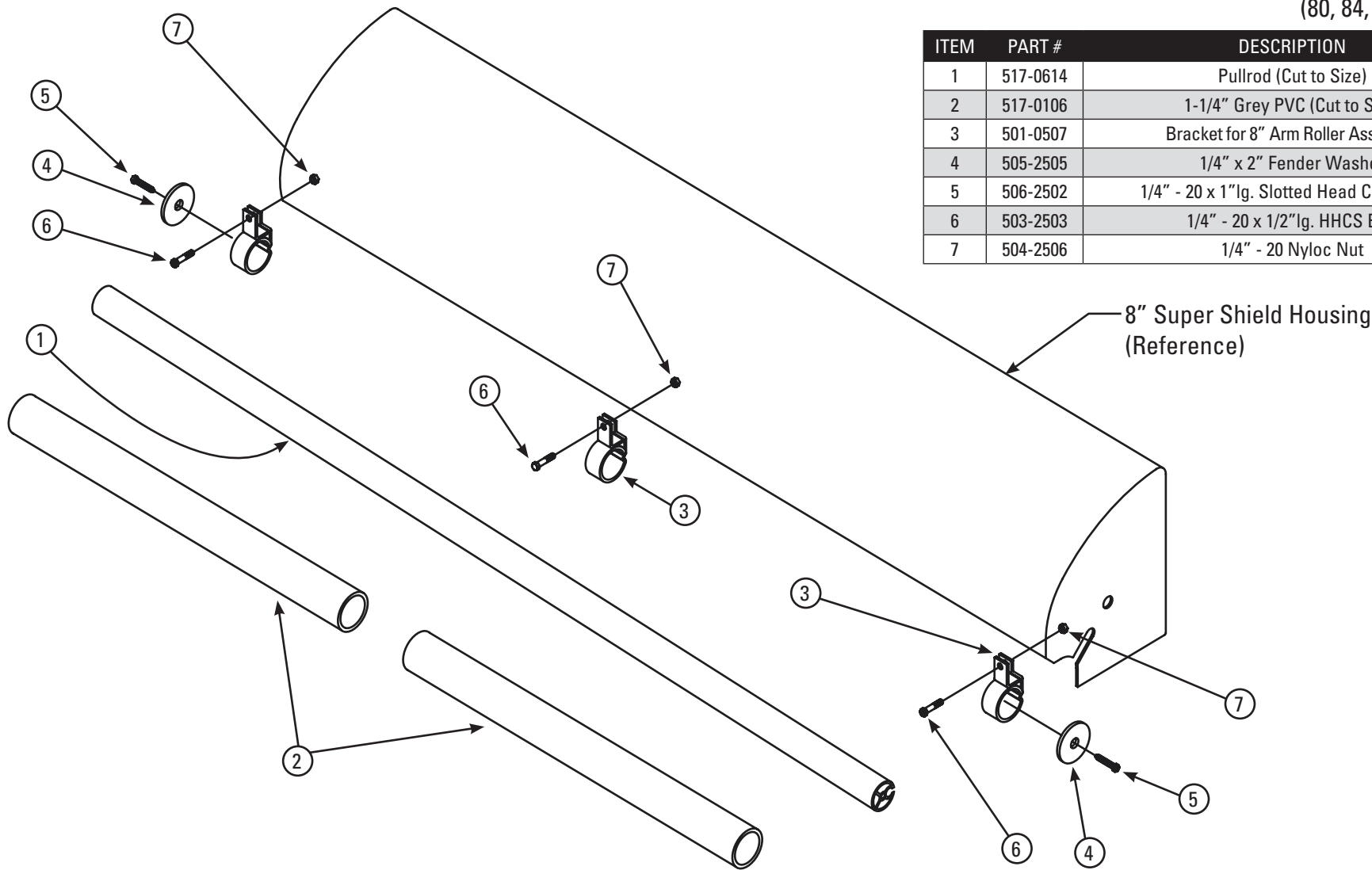


PARTS SCHEMATICS

Semi-Automatic & Automatic Options

S8 Roller Conversion #501-070X

(80, 84, 87, 89, 93, 96, 100")



ITEM	PART #	DESCRIPTION	QTY
1	517-0614	Pullrod (Cut to Size)	1
2	517-0106	1-1/4" Grey PVC (Cut to Size)	2
3	501-0507	Bracket for 8" Arm Roller Assembly	3
4	505-2505	1/4" x 2" Fender Washer	2
5	506-2502	1/4" - 20 x 1"lg. Slotted Head Cap Screw	2
6	503-2503	1/4" - 20 x 1/2"lg. HHCS Bolt	3
7	504-2506	1/4" - 20 Nyloc Nut	3

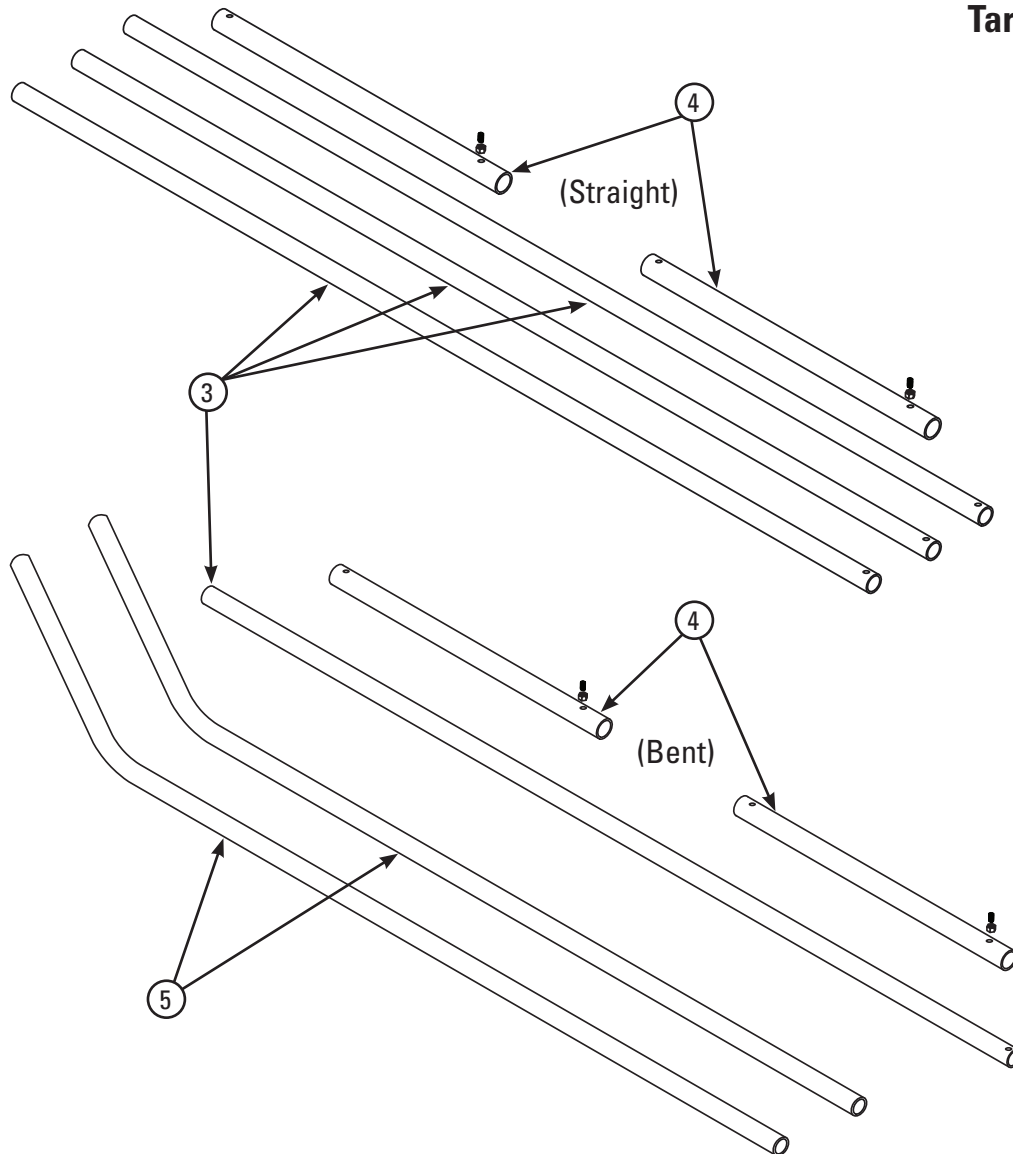
REV. 10/24/16 WLH



PARTS SCHEMATICS

Semi-Automatic & Automatic Options

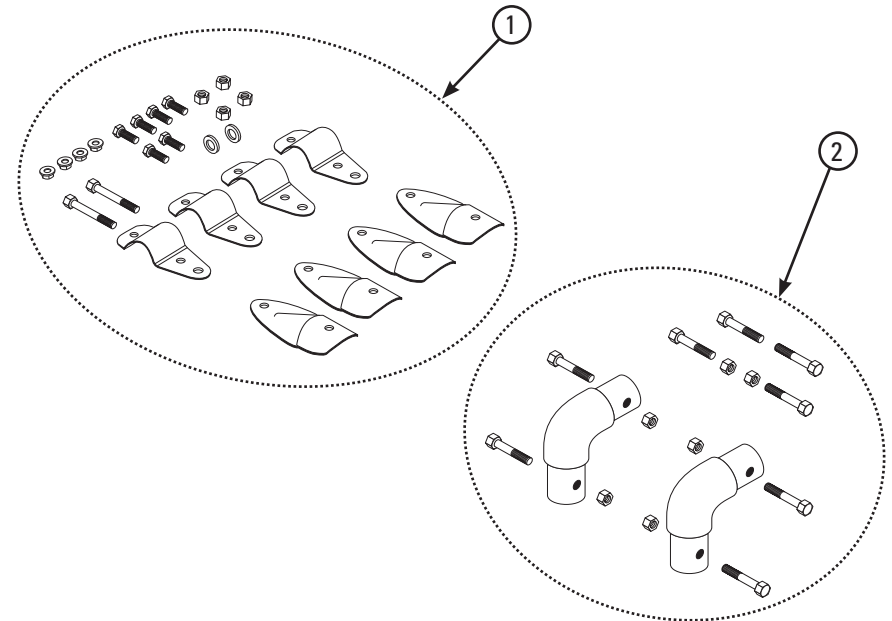
Tarp Tamer Bow to 21' Steel #501-1800 (Straight), #501-1801 (Bent)



Straight & Bent

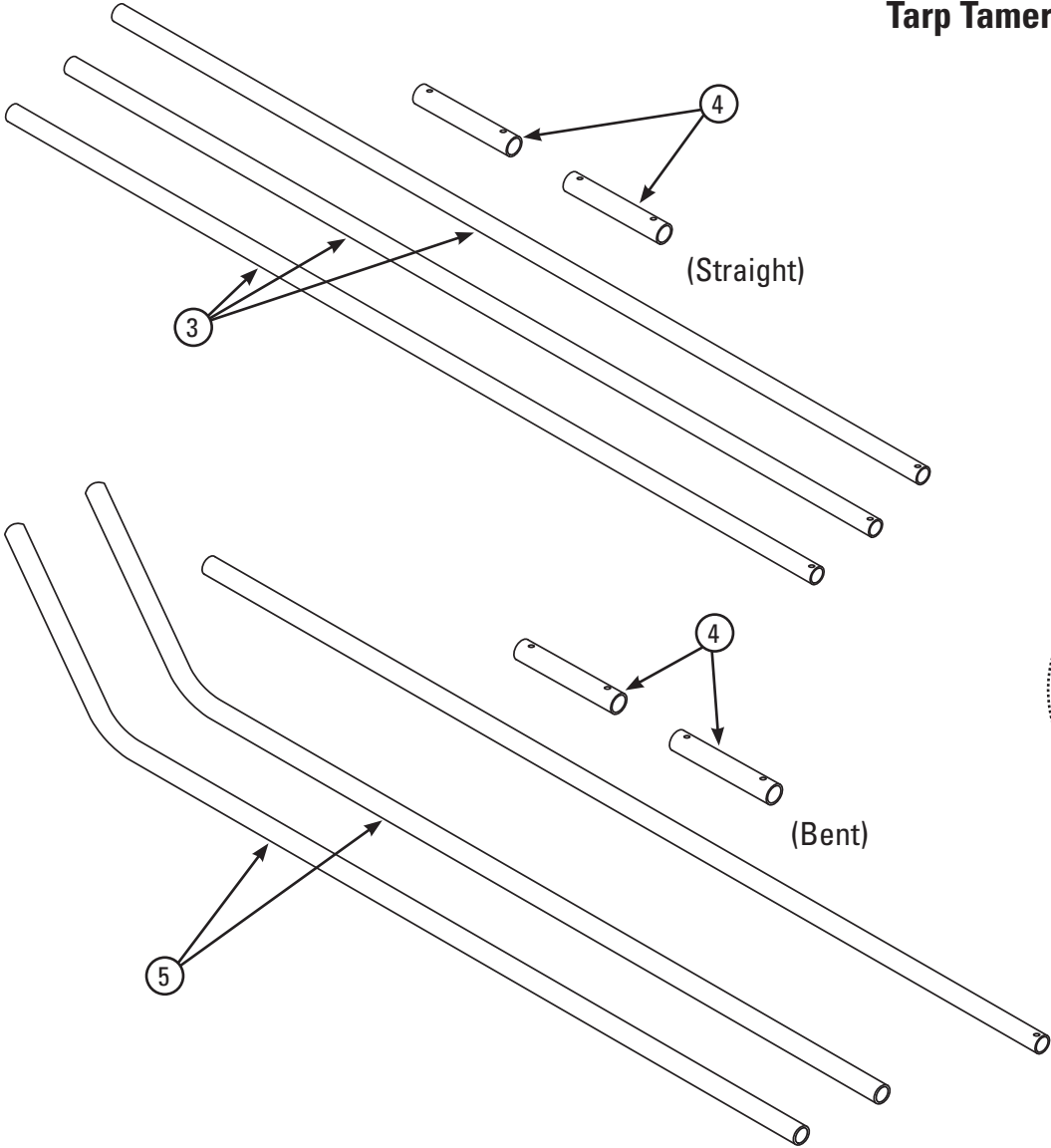
ITEM	PART #	DESCRIPTION	QTY
1	501-0796	Tarp Tamer Bow Hardware Kit (Straight)	1
--	--	Tarp Tamer Bow Hardware Kit (Bent)	1
2	501-1251	Elbow & Upper Conn. Hardware (Straight) - Steel	1
--	--	Elbow & Upper Conn. Hardware (Bent) - Steel	1
3	501-1202	Steel Upper Arm Tubing (Straight) - Drilled	3
--	--	Steel Upper Arm Tubing (Bent) - Drilled	1
4	501-1229	Lower Connection Arm Tube (Straight) - 34.25"	2
--	--	Lower Connection Arm Tube (Bent) - 34.25"	2
5	501-1205	Upper Arm Tubing (Bent) - Drilled	2

REV. 12/19/16 WLH





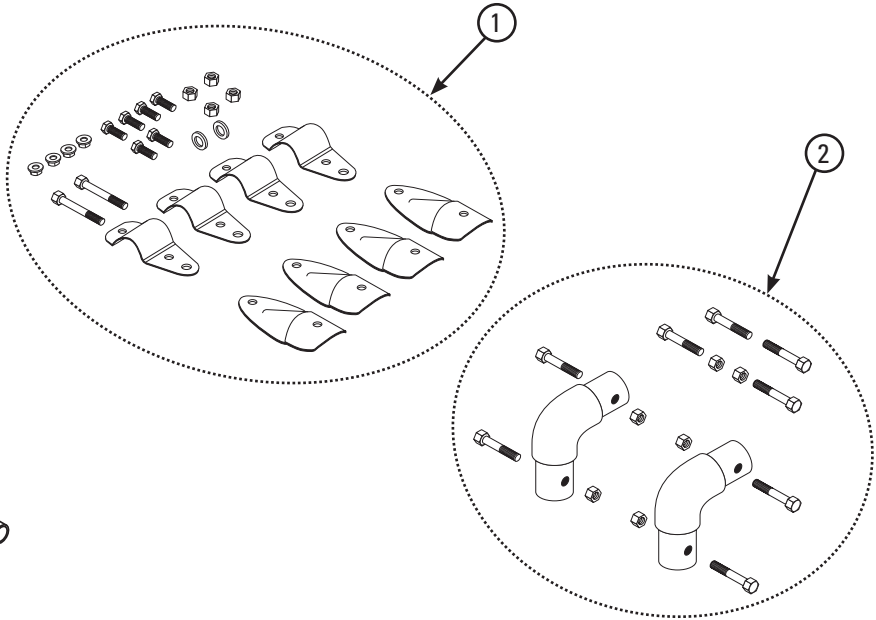
Tarp Tamer Bow to 21' Aluminum #501-1802 (Straight), #501-1803 (Bent)



Straight & Bent

ITEM	PART #	DESCRIPTION	QTY
1	501-0796	Tarp Tamer Bow Hardware Kit (Straight)	1
--	--	Tarp Tamer Bow Hardware Kit (Bent)	1
2	501-1250	Elbow & Upper Conn. Hardware (Straight) - Alum	1
--	--	Elbow & Upper Conn. Hardware (Bent) - Alum	1
3	501-1211	Aluminum Upper Arm or Pullrod (Straight)	3
--	--	Aluminum Upper Arm or Pullrod (Bent)	1
4	501-1217	Aluminum 4 Spring Arm Tube 30" Long (Straight)	2
--	--	Aluminum 4 Spring Arm Tube 30" Long (Bent)	2
5	501-1214	Aluminum Upper Arm (Bent) - Up to 33'	2

REV. 12/19/16 WLH





PARTS SCHEMATICS

Semi-Automatic & Automatic Options

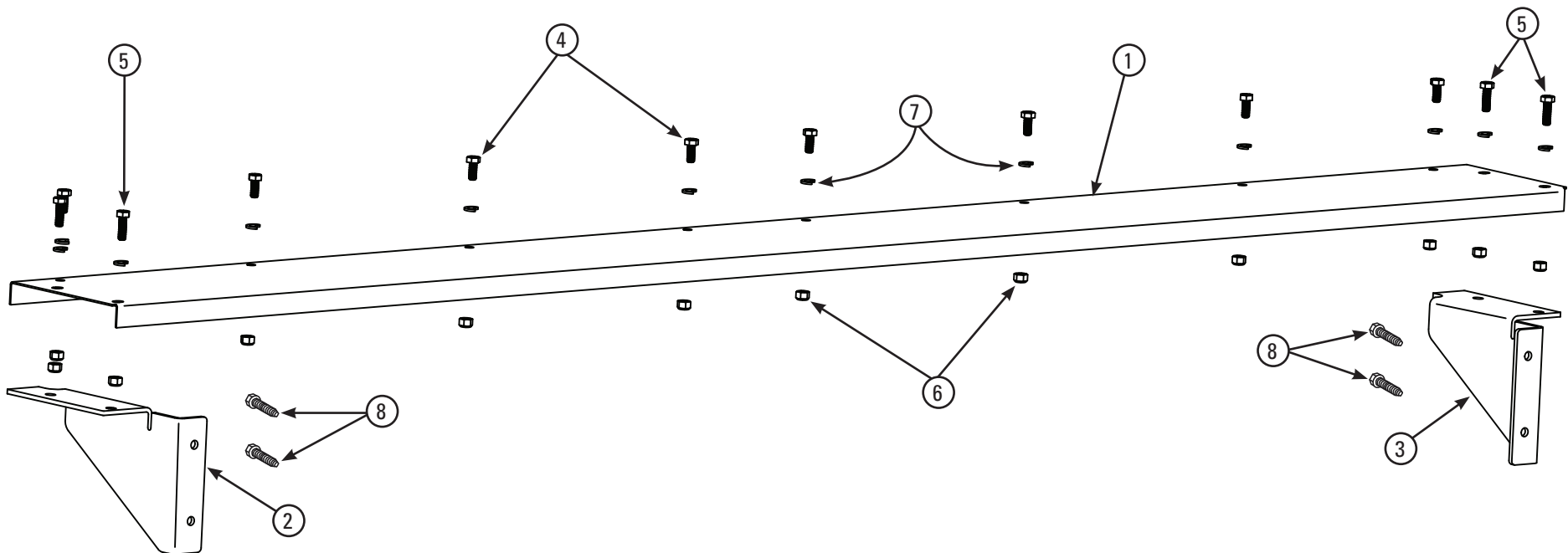
80" Wind Tray Kit / Aluminator 8500 Housing #501-1030 (Shown)

Width Options: #501-1031 (84"), #501-1032 (87"), #501-1033 (89"), #501-1034 (93"), 501-1035 (96") & 501-1036 (100")

ITEM	PART #	DESCRIPTION	QTY
1	501-1037	8.5 Aluminum Tray 80"	1
---	501-1038	8.5 Aluminum Tray 84" (Option)	1
---	501-1039	8.5 Aluminum Tray 87" (Option)	1
---	501-1040	8.5 Aluminum Tray 89" (Option)	1
---	501-1041	8.5 Aluminum Tray 93" (Option)	1
---	501-1042	8.5 Aluminum Tray 96" (Option)	1
---	501-1043	8.5 Aluminum Tray 100" (Option)	1

ITEM	PART #	DESCRIPTION	QTY
2	501-1044	Left Aluminum Tray Support	1
3	501-1045	Right Aluminum Tray Support	1
4	503-3103	5/16"-18 x 3/4" HHCS Bolt	8
5	503-3105	5/16"-18 x 1" HHCS Bolt G2	4
6	504-3103	5/16"-18 Nylock Nut	12
7	505-3102	5/16" Lock Washer	12
8	506-3703	3/8" - 16 x 1-1/4" Full Thread Stud	4

REV. 02/04/20 WLH

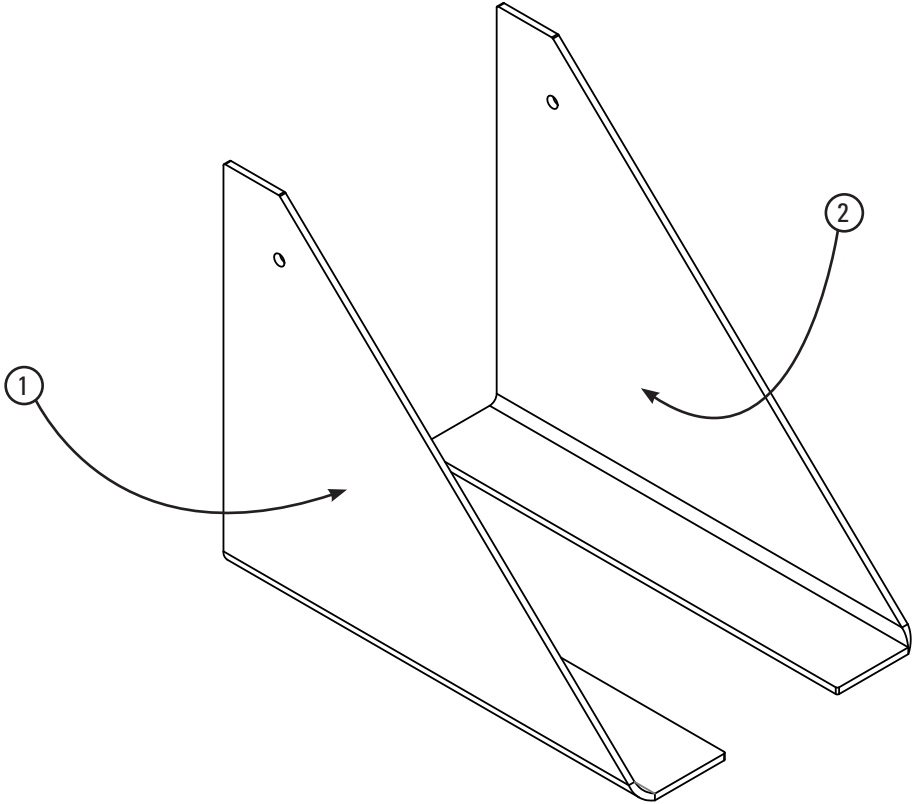




“B” Bracket Kit #501-0501

ITEM	PART #	DESCRIPTION	QTY
1	501-0503	Right Mounting Bracket “B” Position	1
2	501-0504	Left Mounting Bracket “B” Position	1

REV. 06/25/20 WLH

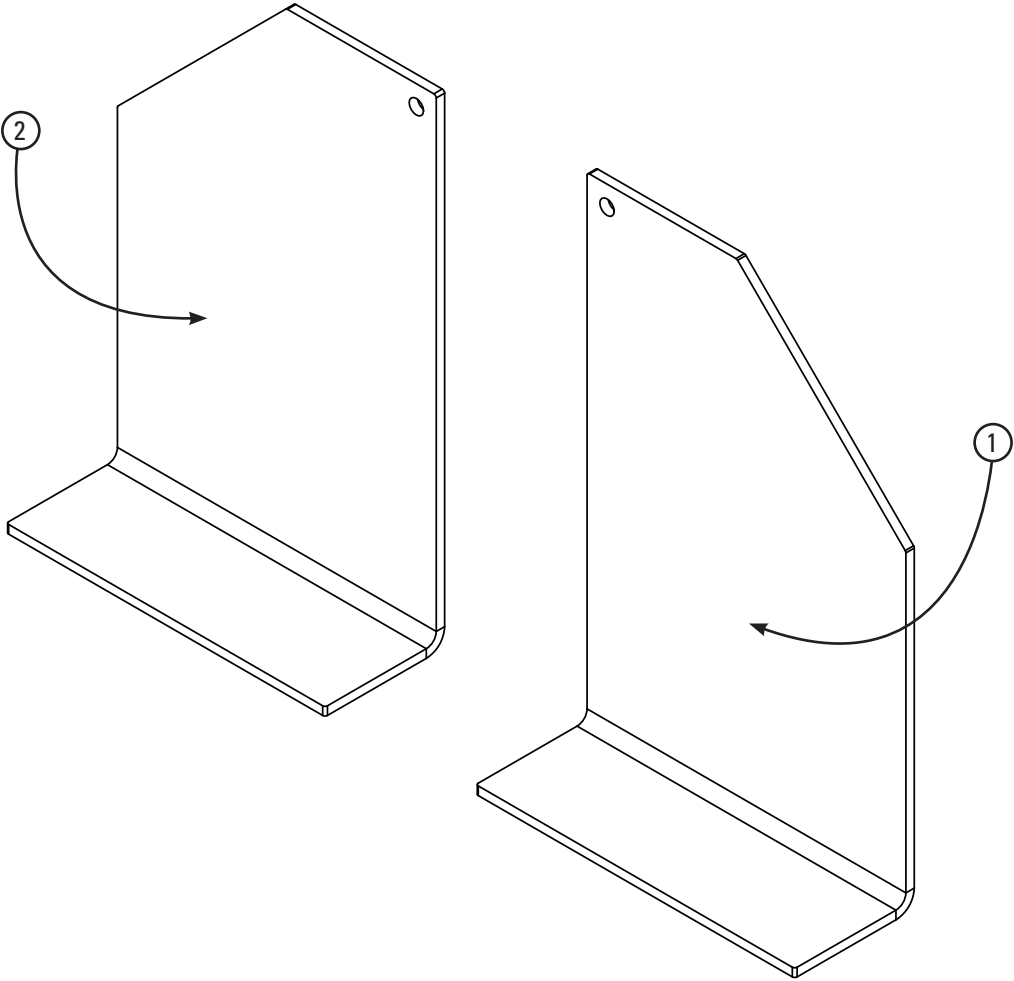




“B” Bracket Kit for “N” Style #501-0502

ITEM	PART #	DESCRIPTION	QTY
1	501-0505	Left Mounting Bracket “B” Position “N” Style T	1
2	501-0506	Right Mounting Bracket “B” Position “N” Style	1

REV. 06/25/20 WLH





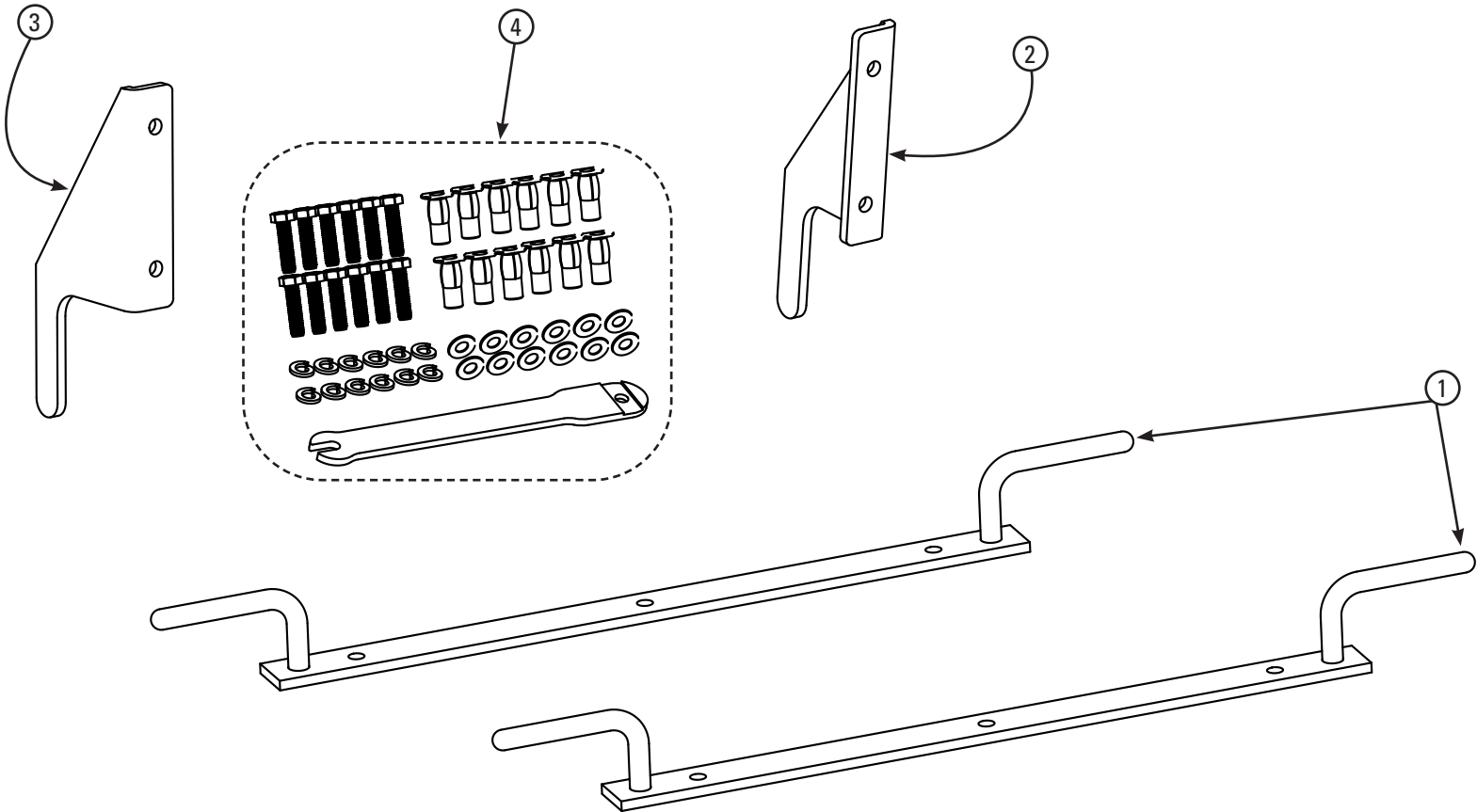
PARTS SCHEMATICS

Semi-Automatic & Automatic Options

Bolt-On Return Ramp H/W Kit #501-0648

ITEM	PART #	DESCRIPTION	QTY
1	501-0554	Rope Hook Assembly Welded	2
2	501-0345	3" Tarp Return - Left	1
3	501-0346	3" Tarp Return - Right	1
4	501-0611	Plus-Nut System Mount Kit	1

REV. 06/25/20 WLH





WASTE SYSTEMS DUAL STAGE TOWER AUTOMATIC & SEMI-AUTOMATIC





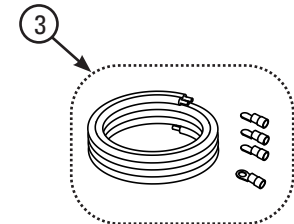
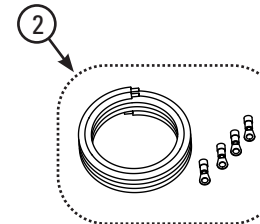
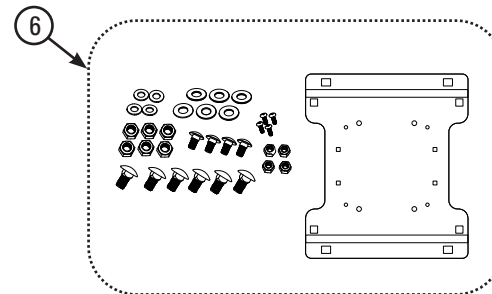
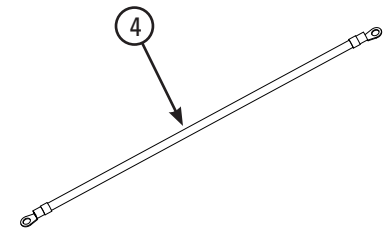
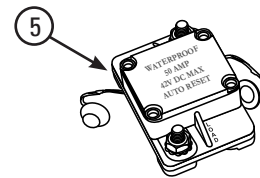
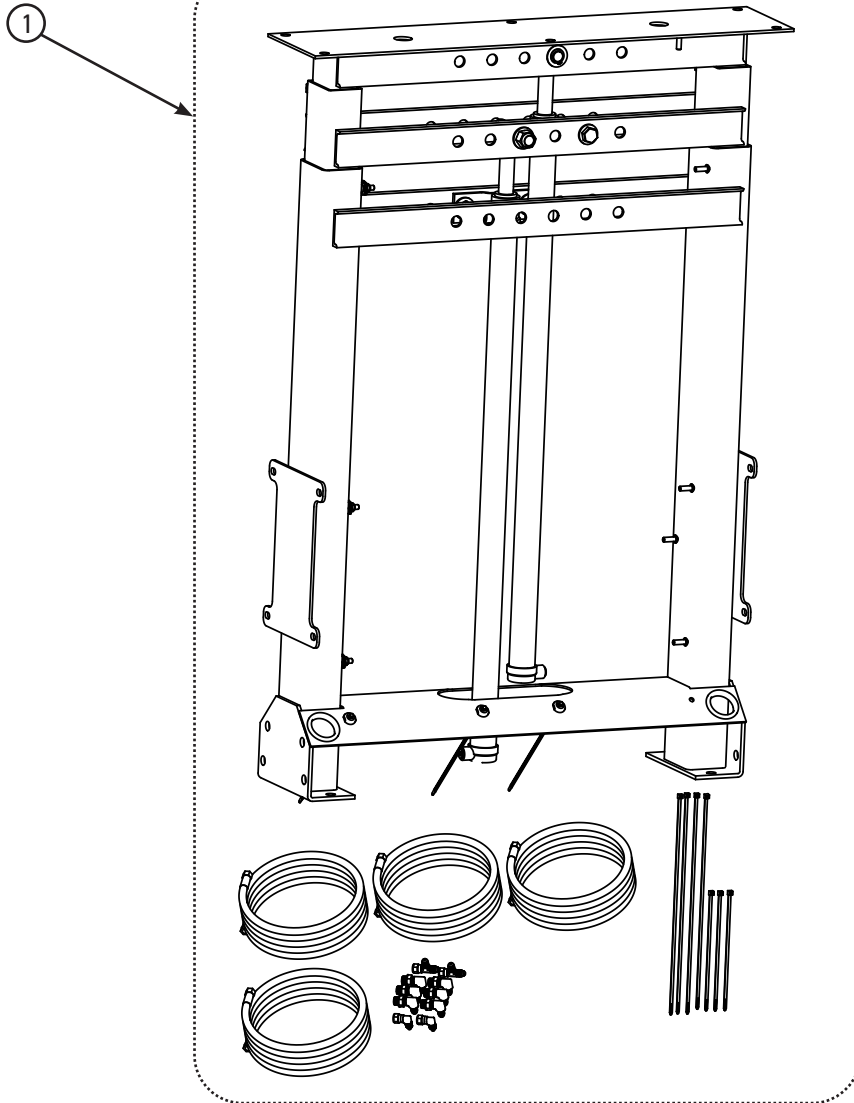
PARTS SCHEMATICS

Waste Systems - Dual Stage Tower Automatic & Semi-Automatic

Dual Stage Electric Tower #513-0014

ITEM	PART #	DESCRIPTION	QTY
1	513-0080	Dual Stage Electric Tower	1
2	514-9986	10' Pump Power Wire	1
3	514-9989	10' Switch Power Wire	1
4	514-9987	18" Battery Wire	1
5	514-0432	50 Amp Type 1 Breaker	1
6	501-0687	Tower Tray Hardware Kit	1

REV. 08/31/18 WLH





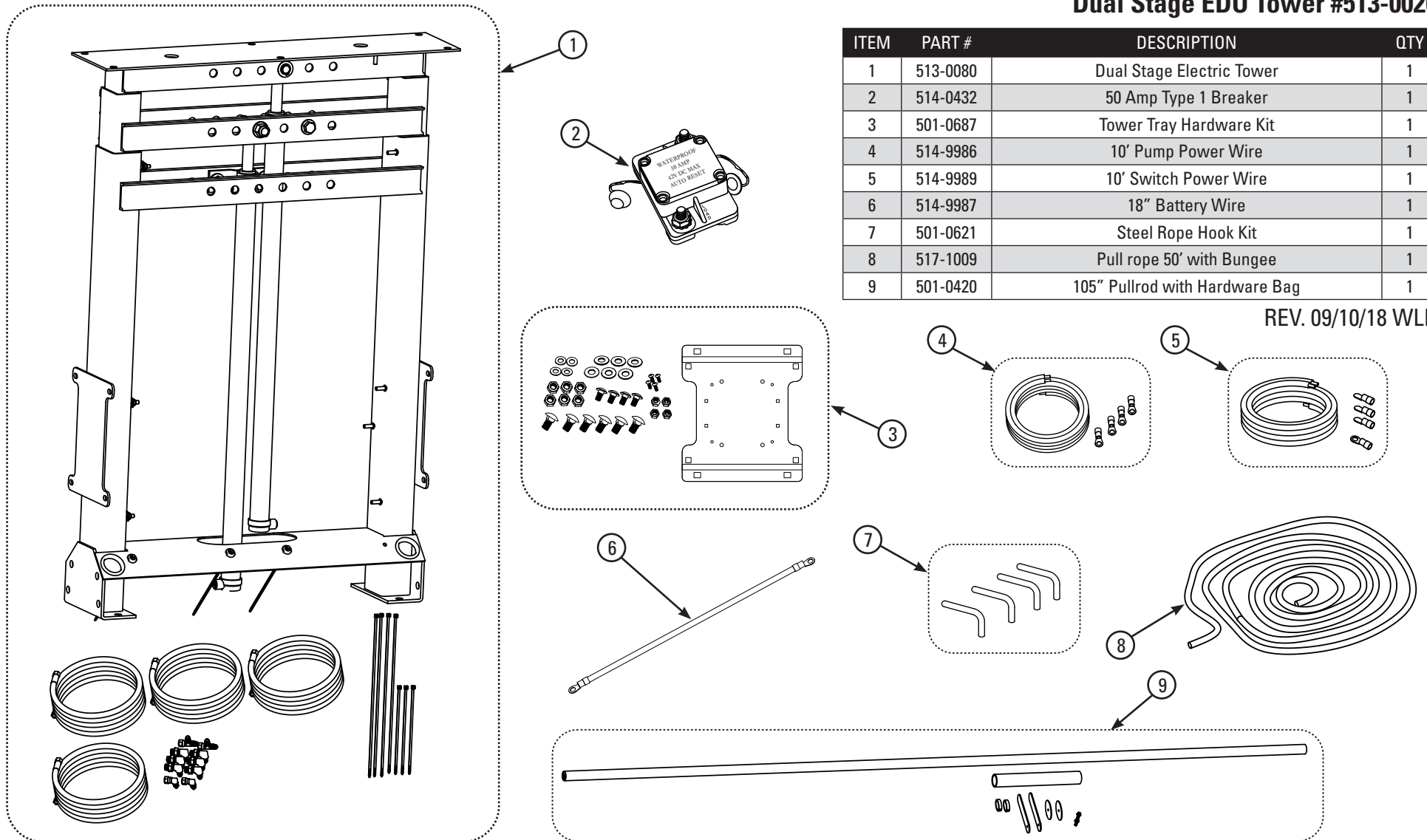
PARTS SCHEMATICS

Waste Systems - Dual Stage Tower Automatic & Semi-Automatic

Dual Stage EDU Tower #513-0020

ITEM	PART #	DESCRIPTION	QTY
1	513-0080	Dual Stage Electric Tower	1
2	514-0432	50 Amp Type 1 Breaker	1
3	501-0687	Tower Tray Hardware Kit	1
4	514-9986	10' Pump Power Wire	1
5	514-9989	10' Switch Power Wire	1
6	514-9987	18" Battery Wire	1
7	501-0621	Steel Rope Hook Kit	1
8	517-1009	Pull rope 50' with Bungee	1
9	501-0420	105" Pullrod with Hardware Bag	1

REV. 09/10/18 WLH





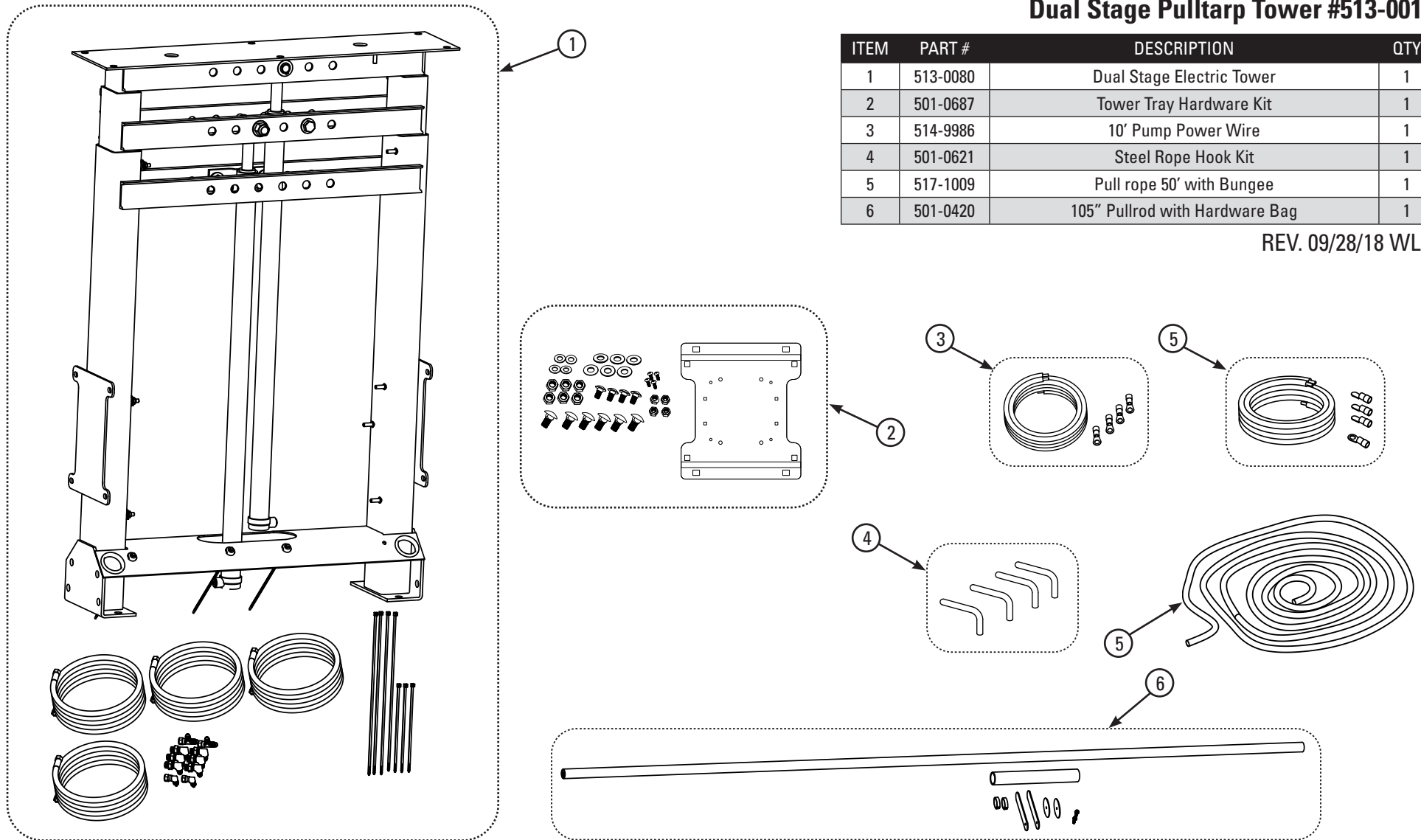
PARTS SCHEMATICS

Waste Systems - Dual Stage Tower Automatic & Semi-Automatic

Dual Stage Pulltarp Tower #513-0019

ITEM	PART #	DESCRIPTION	QTY
1	513-0080	Dual Stage Electric Tower	1
2	501-0687	Tower Tray Hardware Kit	1
3	514-9986	10' Pump Power Wire	1
4	501-0621	Steel Rope Hook Kit	1
5	517-1009	Pull rope 50' with Bungee	1
6	501-0420	105" Pullrod with Hardware Bag	1

REV. 09/28/18 WLH





PARTS SCHEMATICS

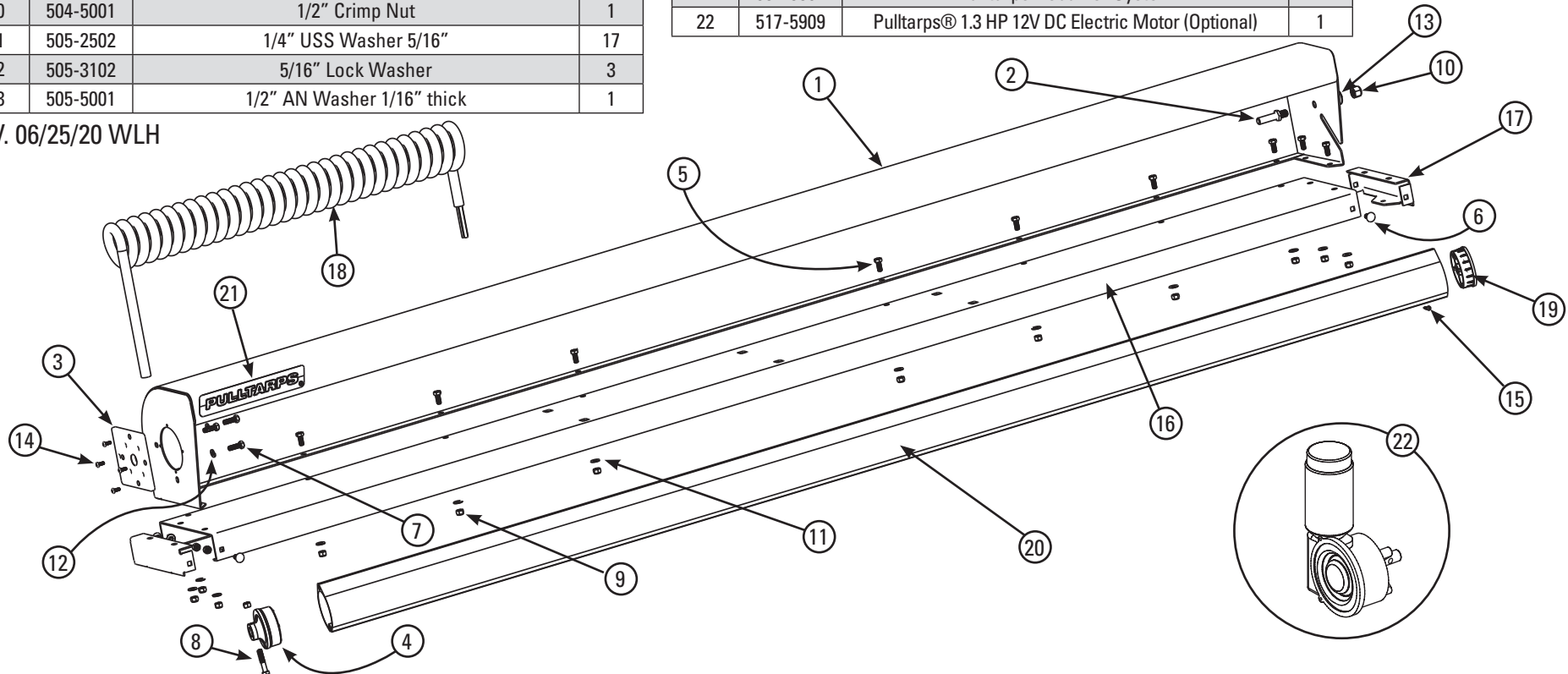
Waste Systems - Dual Stage Tower Automatic & Semi-Automatic

SuperShield™ 9500E 100" Tower Assembly with Tray #513-0081

ITEM	PART #	DESCRIPTION	QTY
1	501-0121	9.5" x 100" SuperShield™ Housing	1
2	501-0801	System End Plate Stud	1
3	501-1235	Aluminum Adapter Plate	1
4	501-9915	Roller Drive Aluminum End Cap 3"	1
5	503-3103	5/16" - 18 x 3/4" Hex Bolt	12
6	503-3104	5/16" - 18 x 3/4" Carriage Bolt	4
7	503-3105	5/16" - 18 x 1" HHCS Bolt G2	3
8	503-3108	5/16" - 18 1-3/4" HHCS Hex Bolt G2	1
9	504-3103	5/16" - 18 Nylock Nut Steel	17
10	504-5001	1/2" Crimp Nut	1
11	505-2502	1/4" USS Washer 5/16"	17
12	505-3102	5/16" Lock Washer	3
13	505-5001	1/2" AN Washer 1/16" thick	1

ITEM	PART #	DESCRIPTION (Continued)	QTY
14	506-9905	10 - 32 x 1/2" Philips Pan Head Screw	4
15	506-9916	Screw, #8 - 18 x 3/4" Self Drilling	1
16	513-0079	100" R/R Tower Tray	1
17	513-0090	Tower End Support Insert	2
18	514-0216	110" 2 Stage Tower Coil Wire	1
19	517-0102	Flanged End Cap	1
20	517-0511	SuperShield 9500 100" Electric Galv. Roller Tube	1
21	607-0061	Pulltarps Decal for System	1
22	517-5909	Pulltarps® 1.3 HP 12V DC Electric Motor (Optional)	1

REV. 06/25/20 WLH





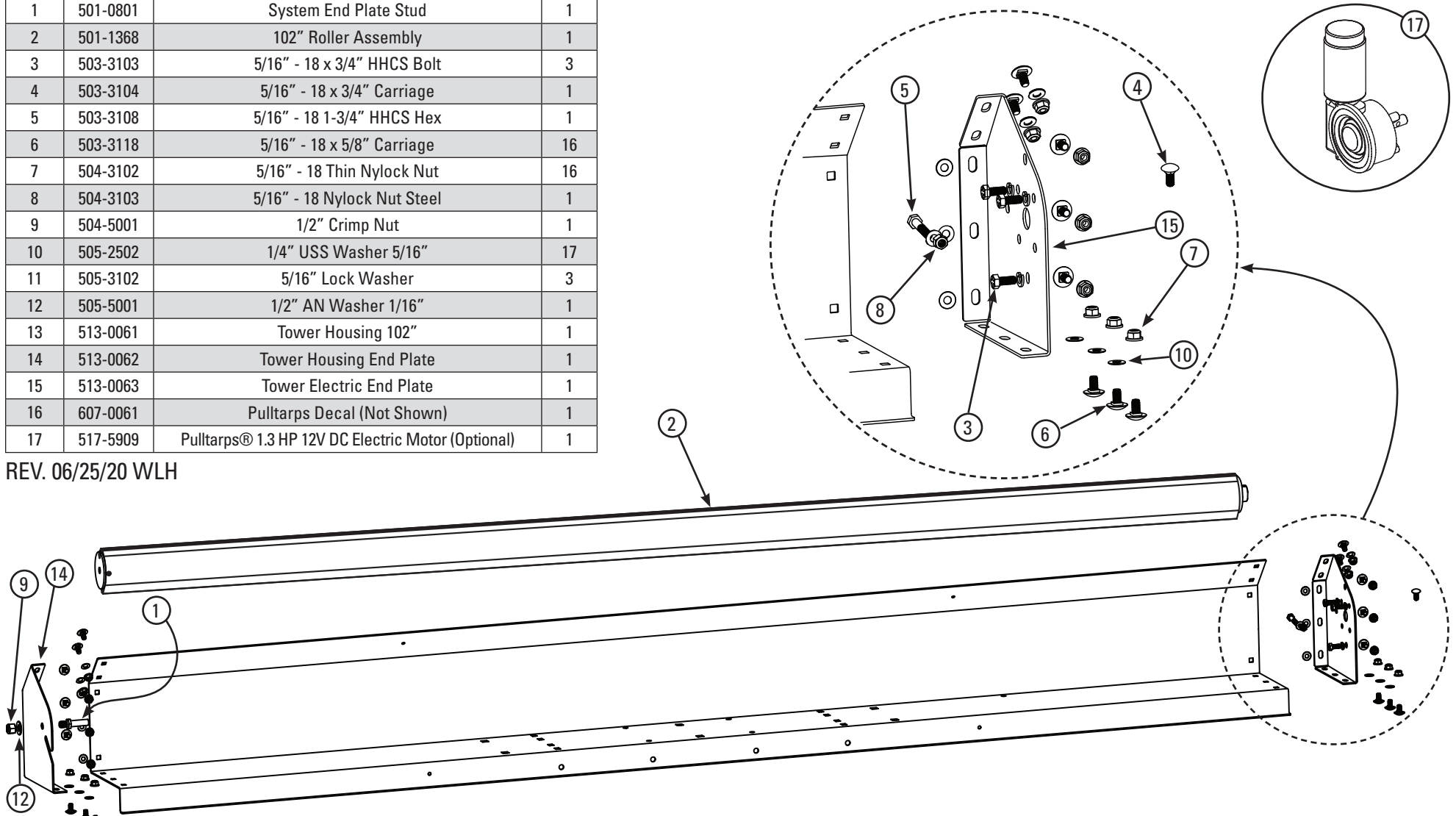
PARTS SCHEMATICS

Waste Systems - Dual Stage Tower Automatic & Semi-Automatic

Open 9000E 102" Tower Assembly with Tray #513-0017

ITEM	PART #	DESCRIPTION	QTY
1	501-0801	System End Plate Stud	1
2	501-1368	102" Roller Assembly	1
3	503-3103	5/16" - 18 x 3/4" HHCS Bolt	3
4	503-3104	5/16" - 18 x 3/4" Carriage	1
5	503-3108	5/16" - 18 1-3/4" HHCS Hex	1
6	503-3118	5/16" - 18 x 5/8" Carriage	16
7	504-3102	5/16" - 18 Thin Nylock Nut	16
8	504-3103	5/16" - 18 Nylock Nut Steel	1
9	504-5001	1/2" Crimp Nut	1
10	505-2502	1/4" USS Washer 5/16"	17
11	505-3102	5/16" Lock Washer	3
12	505-5001	1/2" AN Washer 1/16"	1
13	513-0061	Tower Housing 102"	1
14	513-0062	Tower Housing End Plate	1
15	513-0063	Tower Electric End Plate	1
16	607-0061	Pulltarps Decal (Not Shown)	1
17	517-5909	Pulltarps® 1.3 HP 12V DC Electric Motor (Optional)	1

REV. 06/25/20 WLH





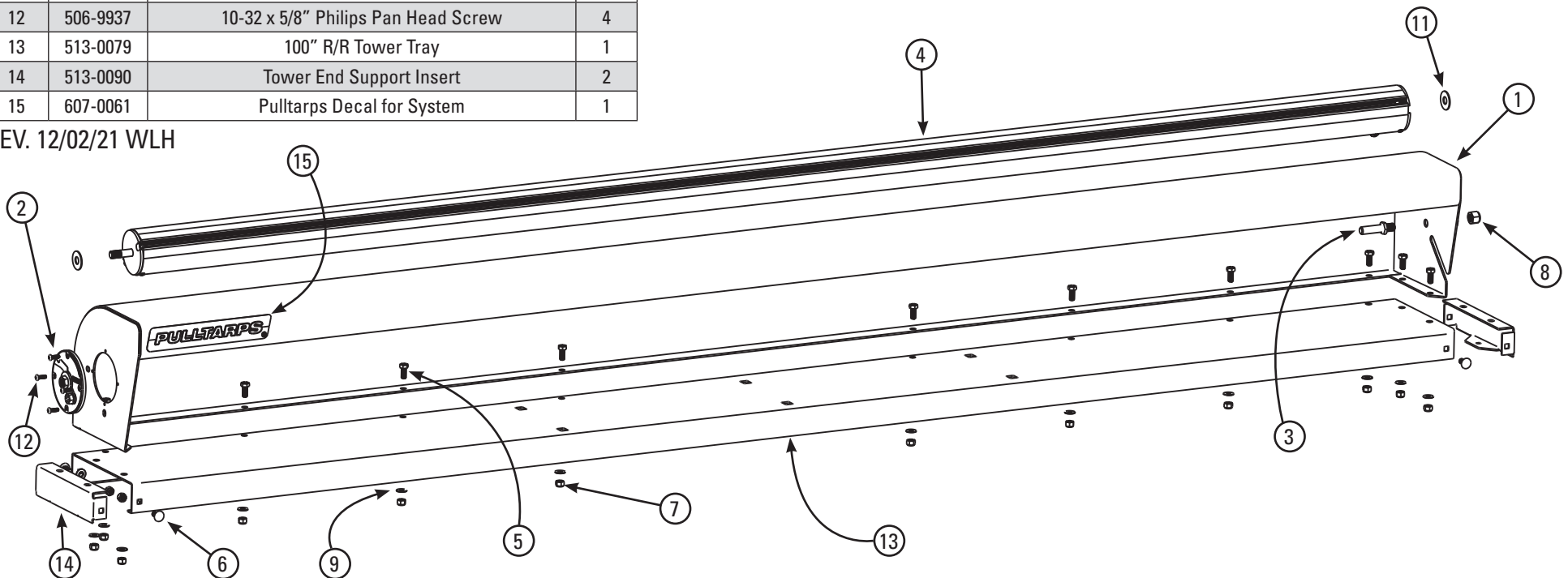
PARTS SCHEMATICS

Waste Systems - Dual Stage Tower Automatic & Semi-Automatic

SuperShield™ 9500M 100" Tower Assembly with Tray #513-0082

ITEM	PART #	DESCRIPTION	QTY
1	501-0121	9.5" x 100" SuperShield™ Housing	1
2	501-0647	System End Plate Ratchet	1
3	501-0801	System End Plate Stud	1
4	501-1307	100" Spring Roller Tube	1
5	503-3101	5/16" - 18 x 1/2" Hex Bolt	12
6	503-3104	5/16" - 18 x 3/4" Carriage Bolt	4
7	504-3103	5/16" - 18 Nylock Nut Steel	16
8	504-5001	1/2" Crimp Nut	1
9	505-2502	1/4" USS Washer 5/16"	16
10	505-5001	1/2" AN Washer 1/16" Thick (Not Shown)	1
11	505-5002	Washer Nylon .51D x 1.25OD	2
12	506-9937	10-32 x 5/8" Philips Pan Head Screw	4
13	513-0079	100" R/R Tower Tray	1
14	513-0090	Tower End Support Insert	2
15	607-0061	Pulltarps Decal for System	1

REV. 12/02/21 WLH

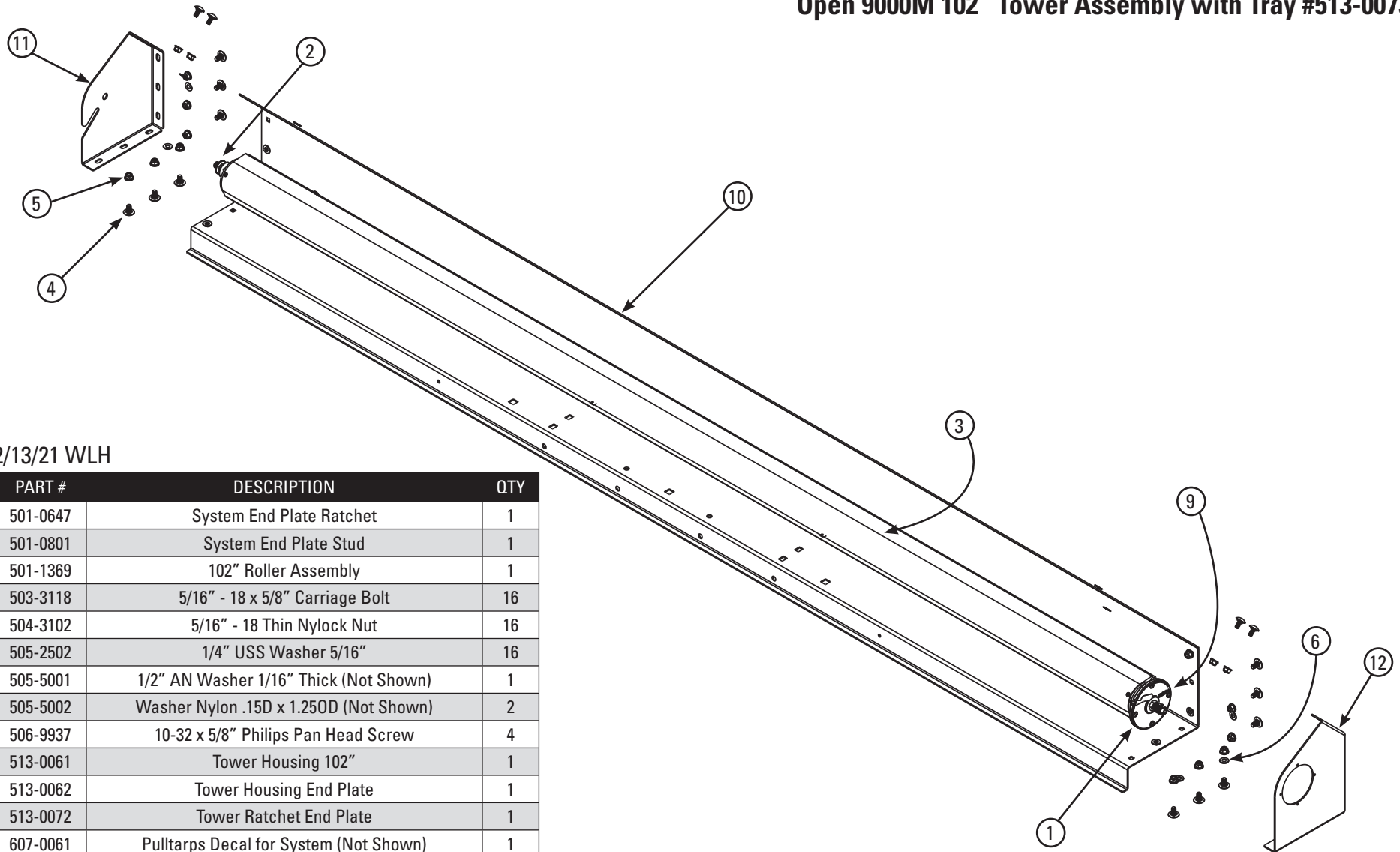




PARTS SCHEMATICS

Waste Systems - Dual Stage Tower Automatic & Semi-Automatic

Open 9000M 102" Tower Assembly with Tray #513-0073



REV. 12/13/21 WLH

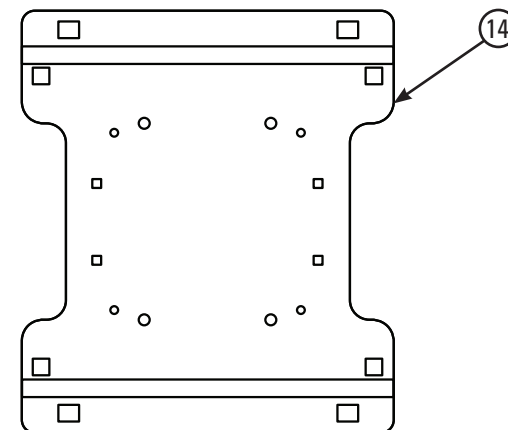
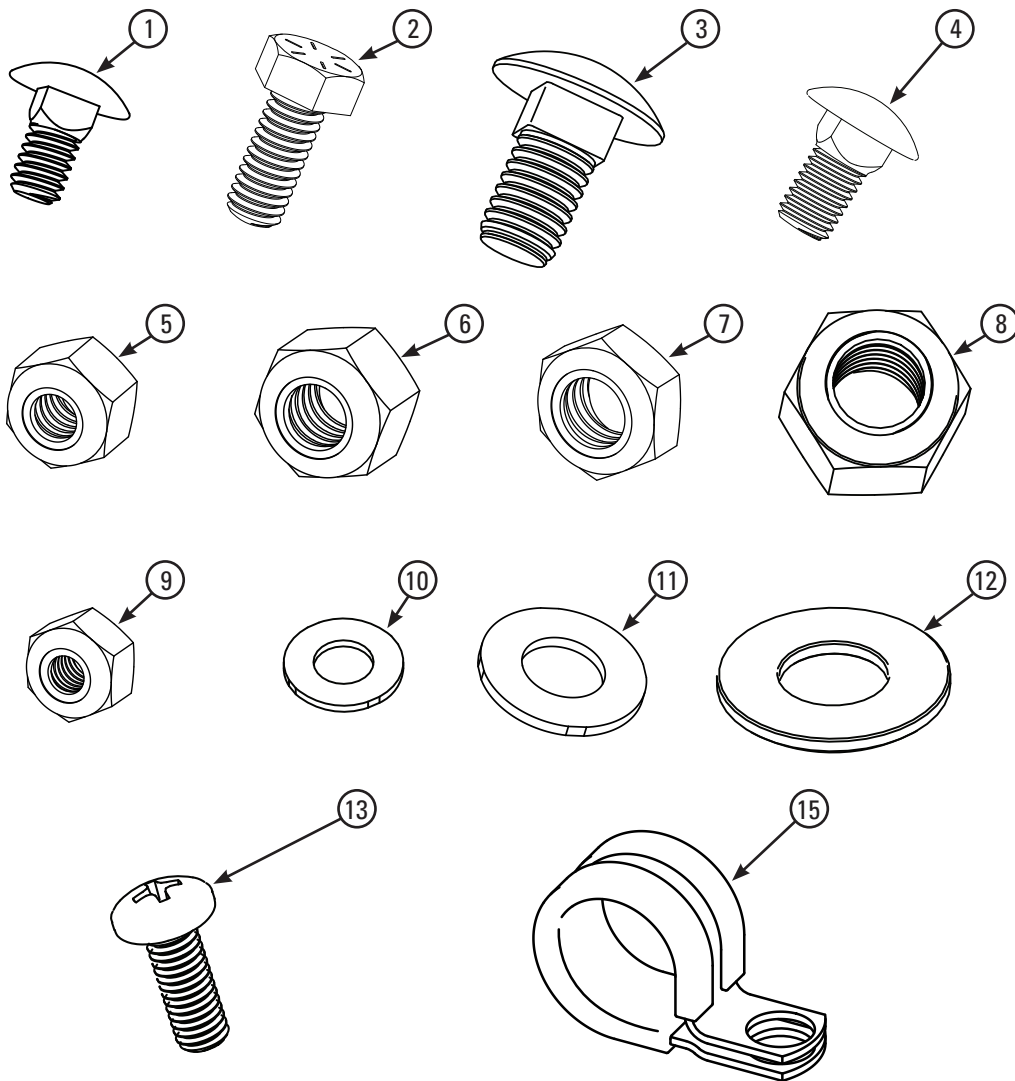
ITEM	PART #	DESCRIPTION	QTY
1	501-0647	System End Plate Ratchet	1
2	501-0801	System End Plate Stud	1
3	501-1369	102" Roller Assembly	1
4	503-3118	5/16" - 18 x 5/8" Carriage Bolt	16
5	504-3102	5/16" - 18 Thin Nylock Nut	16
6	505-2502	1/4" USS Washer 5/16"	16
7	505-5001	1/2" AN Washer 1/16" Thick (Not Shown)	1
8	505-5002	Washer Nylon .15D x 1.25OD (Not Shown)	2
9	506-9937	10-32 x 5/8" Philips Pan Head Screw	4
10	513-0061	Tower Housing 102"	1
11	513-0062	Tower Housing End Plate	1
12	513-0072	Tower Ratchet End Plate	1
13	607-0061	Pulltarps Decal for System (Not Shown)	1



PARTS SCHEMATICS

Waste Systems - Dual Stage Tower Automatic & Semi-Automatic

Tower Tray Hardware Kit #501-0687 (Illustrations not to scale)

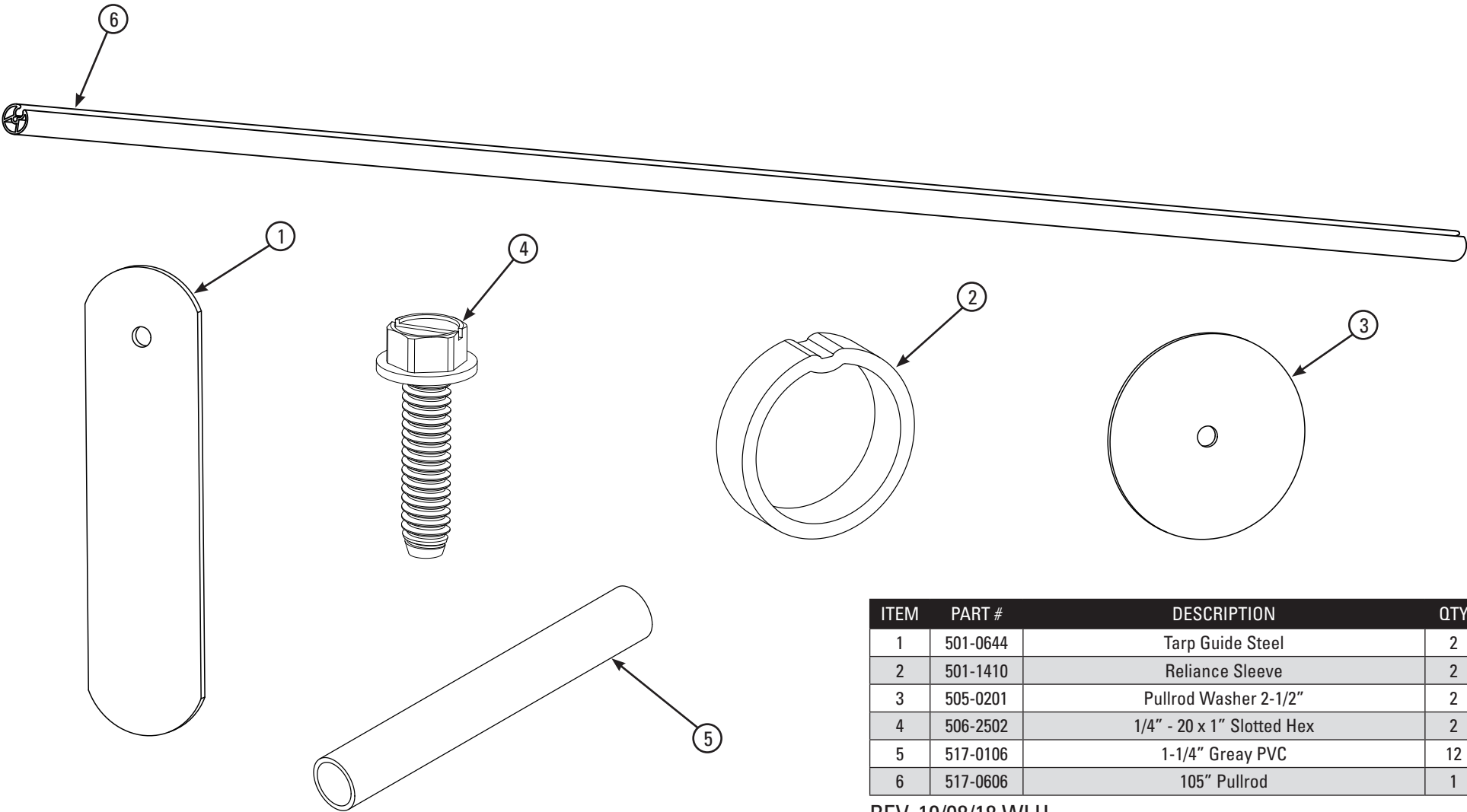


ITEM	PART #	DESCRIPTION	QTY
1	503-2501	1/4" - 20 x 1/2" USS Carriage Bolt	2
2	503-3103	5/16" - 18 x 3/4" HHCS Bolt	2
3	503-3717	3/8" - 16 x 3/4" Carriage Bolt	8
4	503-5020	1/2" - 13 x 1" Carriage Bolt	6
5	504-2503	1/4" - 20 USS Nylock Nut	2
6	504-3103	5/16" - 18 Nylock Nut Steel Zinc	2
7	504-3705	3/8" - 16 Nylock Nut "Thin"	8
8	504-5004	1/2" - 13 Nylock Nut	6
9	504-9903	10 - 32 Nylock Nut	4
10	505-2502	1/4" USS Washer 5/16" Hole	4
11	505-3702	Washer 3/8" SAE Flat Zinc	8
12	505-5004	1/2" USS Flat Washer	6
13	506-9905	10 - 32 x 1/2" Philips Pan Head Screw	4
14	513-0093	Universal Tower Switch Plate	1
15	514-9977	Wire Clamps 3/4" ID	2

REV. 09/13/18 WLH

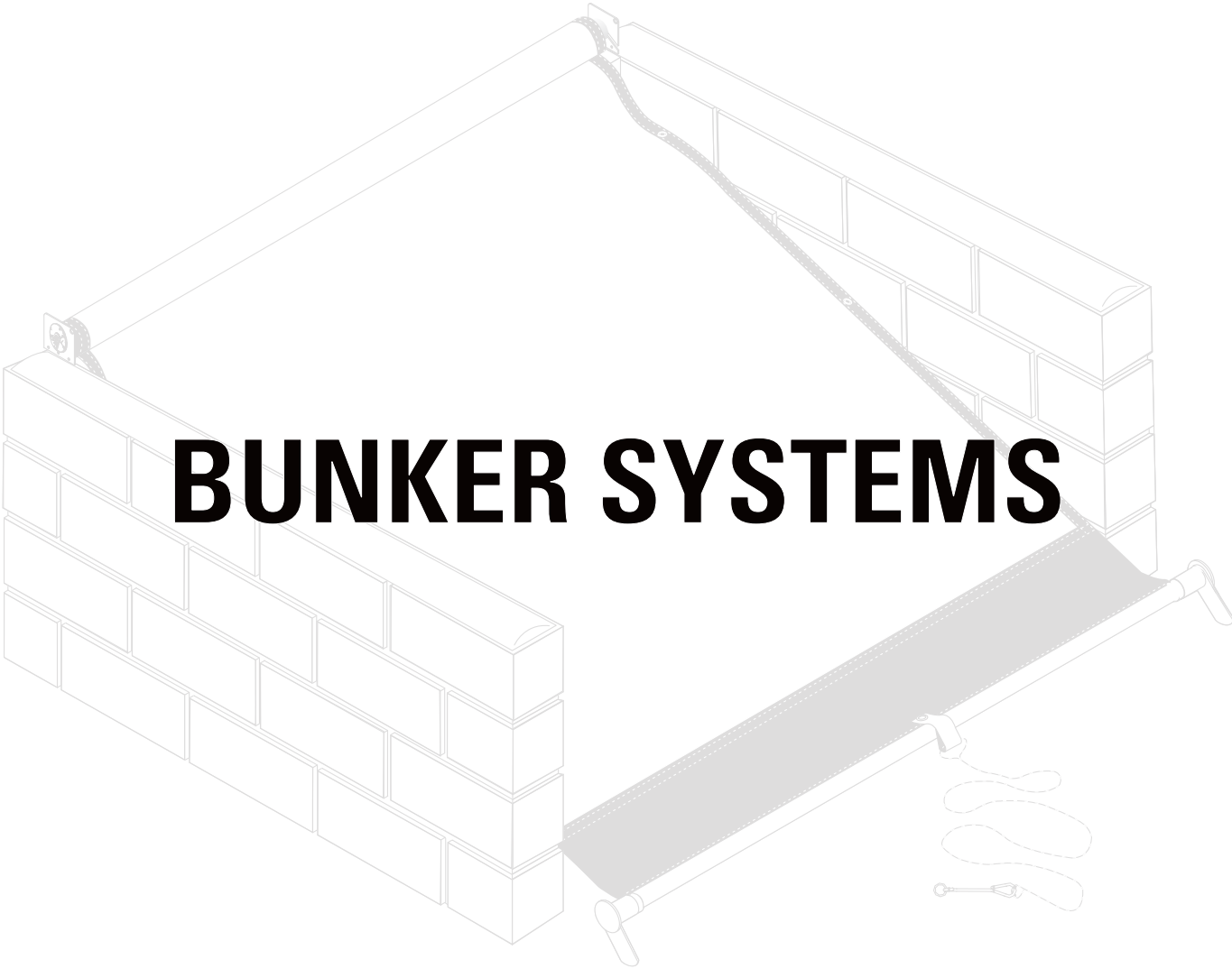


105" Pullrod with Hardware #501-0420 (Illustrations not to scale)



ITEM	PART #	DESCRIPTION	QTY
1	501-0644	Tarp Guide Steel	2
2	501-1410	Reliance Sleeve	2
3	505-0201	Pullrod Washer 2-1/2"	2
4	506-2502	1/4" - 20 x 1" Slotted Hex	2
5	517-0106	1-1/4" Greay PVC	12
6	517-0606	105" Pullrod	1

REV. 10/08/18 WLH



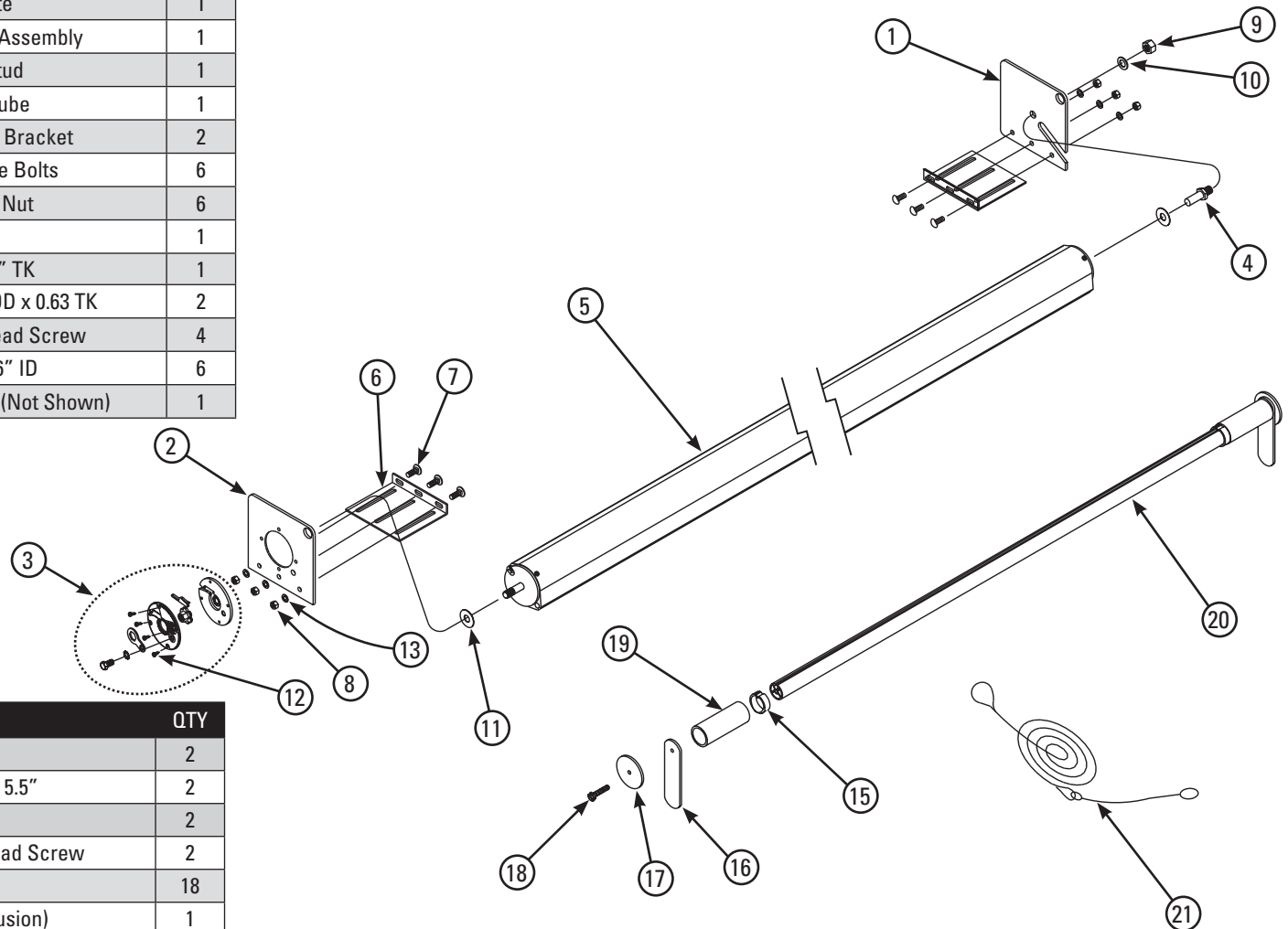


PARTS SCHEMATICS

Bunker Systems

ITEM	PART #	DESCRIPTION	QTY
1	501-0220	9" End Plate without Stud	1
2	501-0289	9" Bunker End Plate	1
3	501-0647	System End Plate Ratchet Assembly	1
4	501-0801	System End Plate Stud	1
5	501-1371	183" Bunker Roller Tube	1
6	501-1555	Bunker System Mounting Bracket	2
7	503-3104	5/16" - 18 x 3/4" Carriage Bolts	6
8	504-3102	5/16" - 18 Jam Nyloc Nut	6
9	504-5001	1/2" Crimp Nut	1
10	505-5001	1/2" AN Washer 1/16" TK	1
11	505-5002	Washer Nylon 0.5 ID x 1.25 OD x 0.63 TK	2
12	506-9937	10-32 x 5/8" Phillips Pan Head Screw	4
13	505-2502	1/4" USS Washer 5/16" ID	6
14	501-0649	Bolt-On Bunker Hardware Kit (Not Shown)	1

Bunker Open 9000M #105-1830 (Width of 183")



REV. 06/17/22 WLH

Pullrod Hardware

ITEM	PART #	DESCRIPTION	QTY
15	501-1410	Reliance Sleeve	2
16	501-0644	Tarp Guide Steel 1.5" x 5.5"	2
17	505-0201	Pull Rod Washer	2
18	506-2502	1/4" - 20 x 1" Slotted Hex Head Screw	2
19	517-0106	1-1/4" Grey PVC	18
20	517-0610	Pull Rod 204" Only (Extrusion)	1
21	517-1006	35' Pull Rope with Bungee	1



PARTS SCHEMATICS

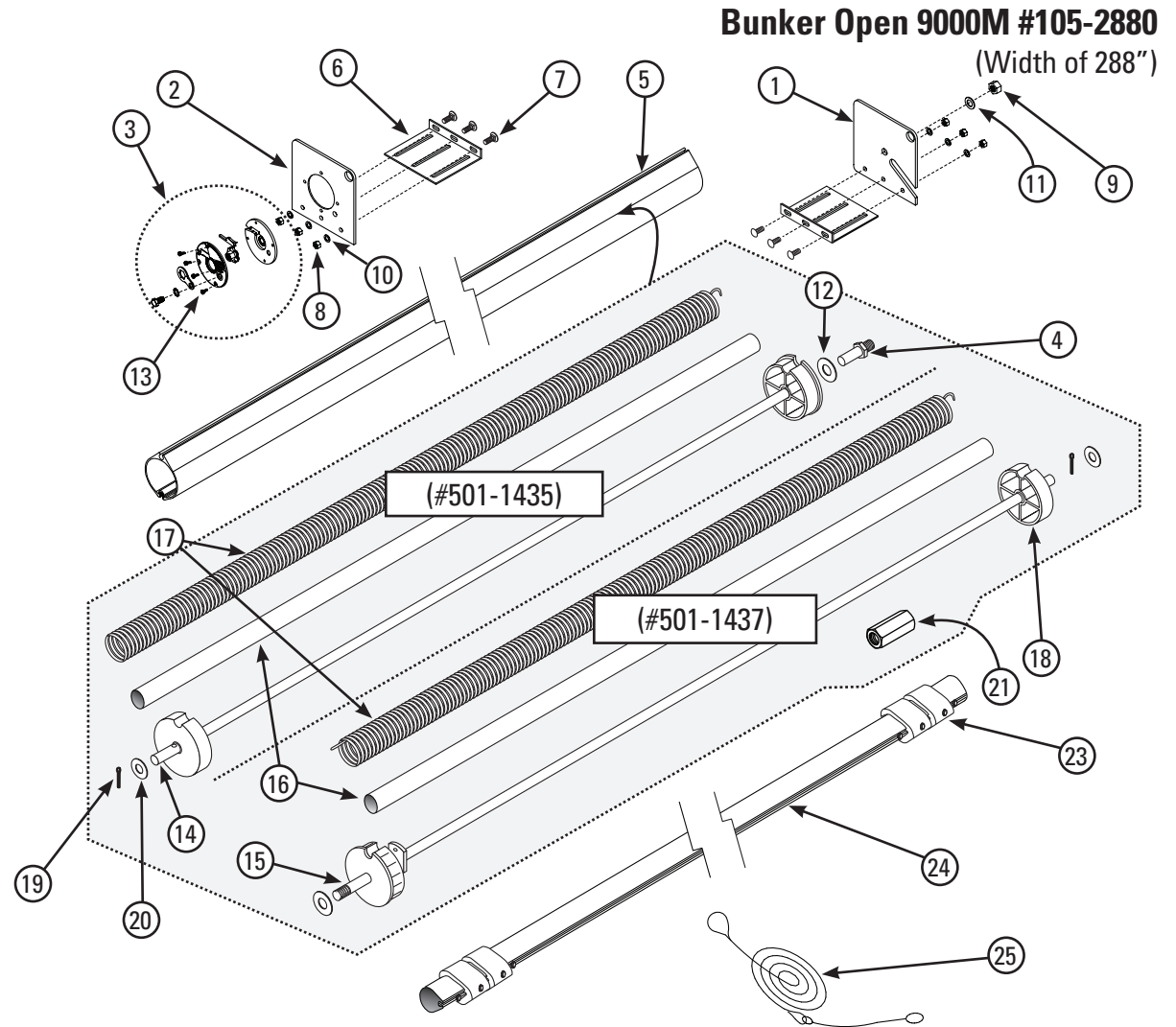
Bunker Systems

ITEM	PART #	DESCRIPTION	QTY
1	501-0220	9" End Plate without Stud	1
2	501-0289	9" Bunker End Plate	1
3	501-0647	System End Plate Ratchet Assembly	1
4	501-0801	System End Plate Stud	1
5	501-1370	288" Bunker Roller Tube	1
6	501-1555	Bunker System Mounting Bracket	2
7	503-3104	5/16" - 18 x 3/4" Carriage Bolts	6
8	504-3102	5/16" - 18 Jam Nyloc Nut	6
9	504-5001	1/2" Crimp Nut	1
10	505-2502	1/4" USS Washer 5/16" ID	6
11	505-5001	1/2" AN Washer 1/16" TK	1
12	505-5002	Washer Nylon 0.5 ID x 1.25 OD x 0.63 TK	4
13	506-9937	10-32 x 5/8" Phillips Pan Head Screw	4
14	501-1420	1/2" x 66" Spring Shaft with CAD	1
15	501-1403	1/2" x 66" Spring Shaft with CAD	1
16	501-1411	1/2" x 59.5" PVC SCH 40 Spacer	2
17	517-9916	Main Spring	2
18	517-0104	Torque Block	2
19	506-1201	1/8" x 1" Cotter Pin	2
20	505-5001	1/2" AN Washer 1/16" TK	2
21	504-5007	1/2" - 13 x 1-3/4" Coupling Nut	1
22	501-0649	Bolt-On Bunker Hardware Kit (Not Shown)	1

REV. 06/17/22 WLH

Universal Teardrop Pullrod Hardware

ITEM	PART #	DESCRIPTION	QTY
23	501-1293	Teardrop Bumper Kit	1
24	517-0636	288" Teardrop Pull Bar	1
25	517-1009	50' Pull Rod with Bungee	1



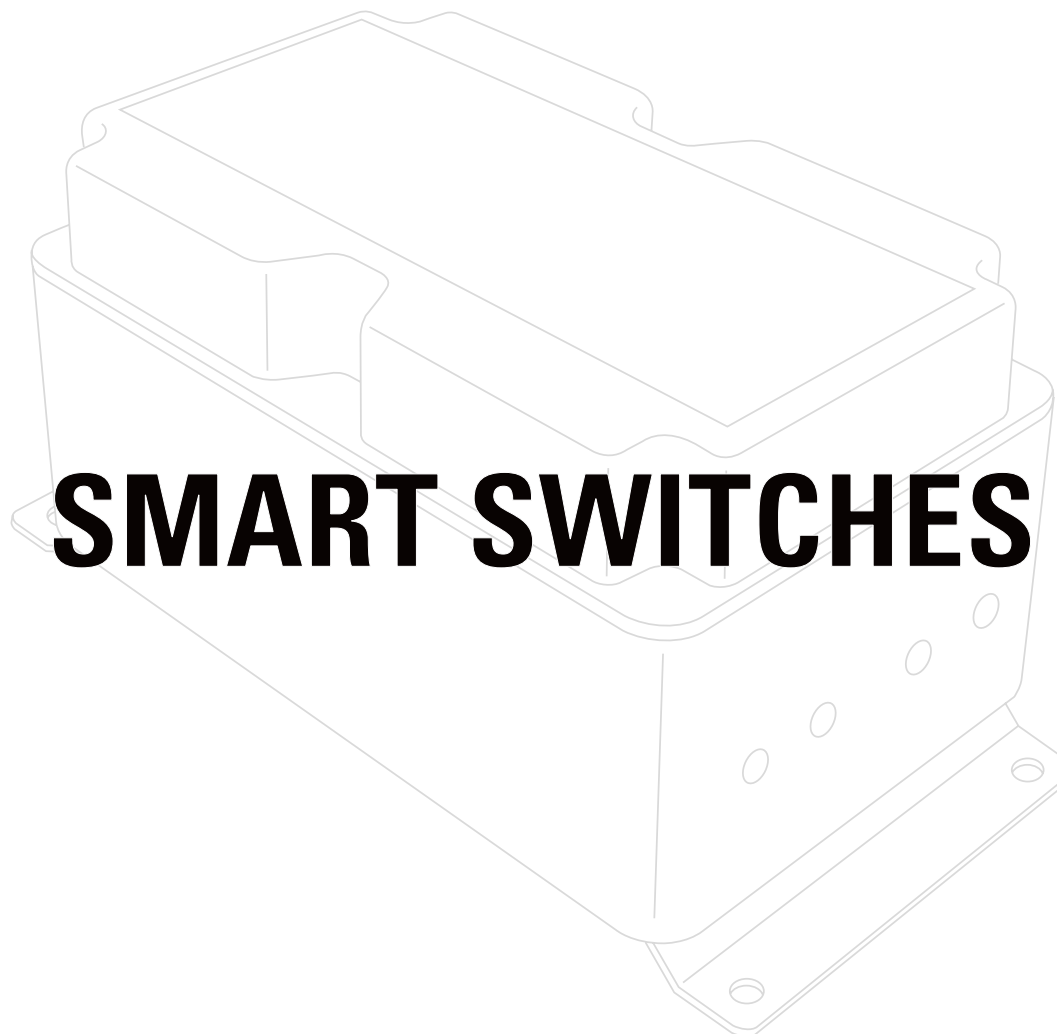


A Safe Fleet Brand



PARTS SCHEMATICS

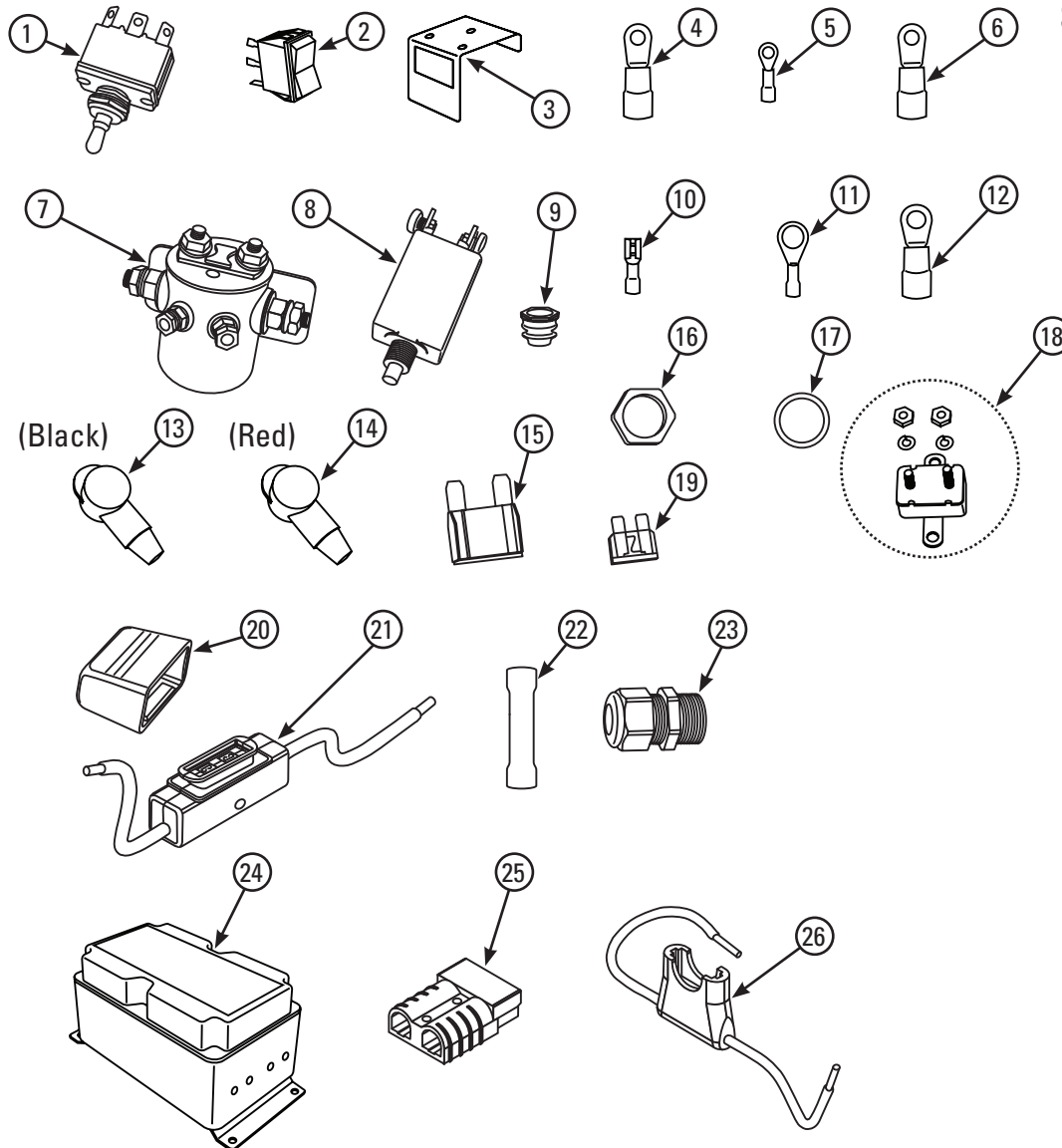
Smart Switches





PARTS SCHEMATICS

Smart Switches



Smart Switch with Cab / External Switch - 24 Volt #501-9933

ITEM	PART #	DESCRIPTION	QTY
1	514-0130	Sealed Toggle Switch	1
2	514-0117	Rocker Switch 3 Position Momentary	1
3	514-9954	Rocker Switch Bracket	1
4	514-0307	Connector 6 Ga. #10 Stud	2
5	514-0303	Connector 14 Ga. #10 Terminal	4
6	514-0308	Connector 6 Ga. Lug with 1/4" Eyelet	6
7	514-9916	Solenoid 24 Volt	2
8	514-0407	50 Amp Circuit Breaker	1
9	514-0419	Boot for 50 Amp Circuit Breaker	1
10	514-0321	16 Ga. Push on Female Terminal	3
11	514-0315	Connector 14Ga. 5/16" Eyelet	2
12	514-0309	Connector 6 Ga. Lug with 3/8" Eyelet	2
13	514-0317	Black Terminal Boot	2
14	514-0319	Red Terminal Boot	2
15	514-0417	80 Amp Blade Fuse	1
16	514-0325	Strain Relief Seal	1
17	514-0324	Strain Relief Lock Washer	1
18	514-0413	24V 40 Amp Type III Breaker	--
19	514-0415	15 Amp 32V DC Blade Fuse	1
20	514-0431	Line Fuse Holder 80 Amp Cover	1
21	514-0418	Line Fuse Holder 80 Amp	1
22	514-0318	Butt Connector 6 Ga.	1
23	514-0323	Strain Relief 1/2" NPT	1
24	517-9923	Plastic Flanged Solenoid Box	1
25	514-0505	Quick Disconnect Term 50 Amp Gray	1
26	514-0416	In Line Fuse Holder for 15 Amp	1
--	514-0127	24V Retro Fit Kit (Not shown)	1
--	514-0211	#16 - 3 Wire PVC 27# Copper	25'

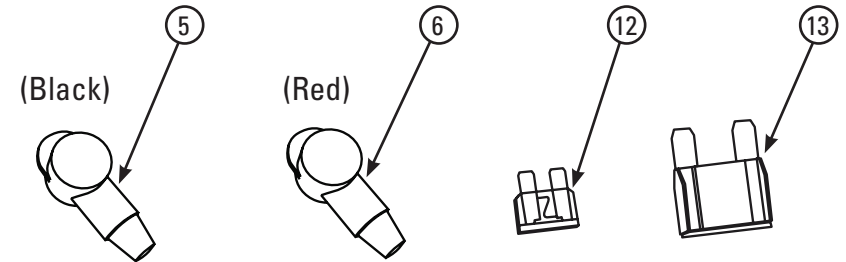
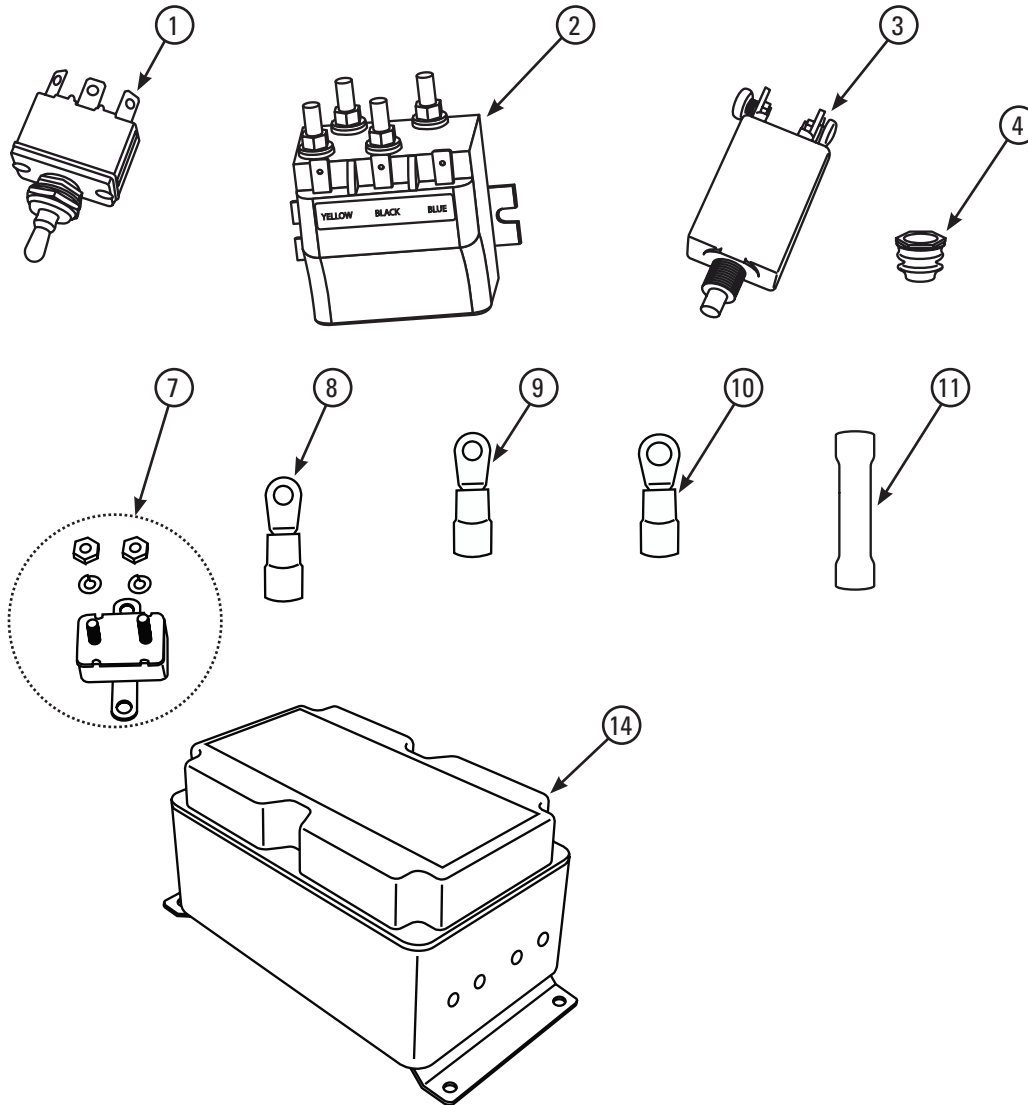
REV. 12/19/17 WLH



PARTS SCHEMATICS

Smart Switches

Smart Switch with External Switch - 24 Volt #501-9949



ITEM	PART #	DESCRIPTION	QTY
1	514-0130	Sealed Toggle Switch	1
2	514-9958	Solenoid 24 Volt	1
3	514-0407	50 Amp Circuit Breaker	1
4	419	Boot for 50 Amp Circuit Breaker	1
5	514-0317	Black Terminal Boot	2
6	514-0319	Red Terminal Boot	2
7	514-0413	24V Amp type III Breaker	6
8	514-0307	Connector 6 Ga. #10 Stud	4
9	514-0308	Connector 6 Ga. Lug with 1/4" Eyelet	6
10	514-0309	Connector 6 Ga. Lug with 3/8" Eyelet	2
11	514-0318	Butt Connector 6 Ga.	1
12	514-0415	15 Amp 32V DC Blade Fuse	1
13	514-0417	80 Amp Blade Fuse	1
14	517-9923	Plastic Flanged Solenoid Box	1

REV. 12/19/17 WLH



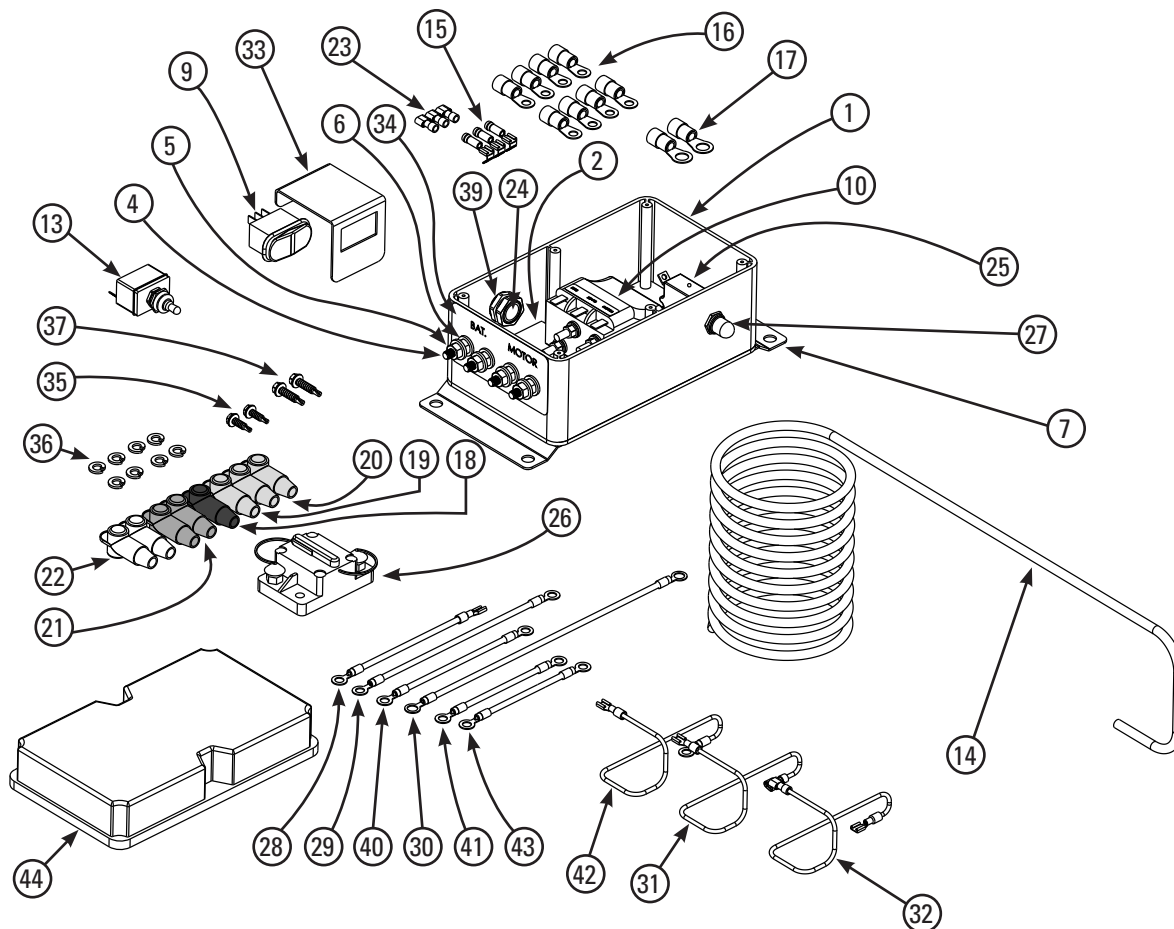
PARTS SCHEMATICS

Smart Switches

ITEM	PART #	DESCRIPTION	QTY
1	517-9934	Plastic Flanged Solenoid Box	1
2	501-9947	Solenoid Inside Mounting Plate	1
3	503-2501	1/4 - 20 X 1/2" USS Carriage Bolt (Not shown)	4
4	503-2508	1/4 - 20 X 1" HHCS GR5	4
5	504-2502	1/4 - 20 Brass Nut	8
6	505-2501	1/4 SAE Thin Zinc Washer	8
7	501-9948	Solenoid Mounting Plate	1
8	504-2506	1/4" Hex Lock Nut "Thin" L/N Std Znc (Not shown)	4
9	514-0117	Rocker Switch 3 Position Momentary	1
10	514-9996	Reversing High AMP Contactor	1
11	506-9905	10-32 X 1/2" Philips Pan Head Screw (Not shown)	2
12	504-9903	10-32 Nylock Nut (Not shown)	2
13	514-0130	Sealed Toggle Switch	1
14	514-0211	#16-3 Wire PVC 27 # Copper	1
15	514-0306	Push On Spade Term. 22-18 Pigback	3
16	514-0308	Connector 6 GA Lug with 1/4" Hole	8
17	514-0309	Connector 6 GA Lug with 3/8" Hole	2
18	514-0317	Black Terminal Boot for 6 GA	1
19	514-0319	Red Terminal Boot for 6 GA	1
20	514-0336	8-2 GA Red Boot Small	2
21	514-0342	Blue Terminal Boot for 6 GA	2
22	514-0343	Yellow Terminal Boot for 6 GA	2
23	514-0321	Push-On Femal Term 16 GA .25 Wide	3
24	514-0323	Strain Relief 1/2" NPT	1
25	514-0407	50 AMP "Push to Reset"	1
26	514-0434	50 AMP Type III Breaker HIGH-AMP	1
27	514-0420	Boot for Breaker	1
28	514-9921	4" Black 10 GA Jumper with 1/4" Eyelets	1
29	514-9918	6" Red 10 GA Jumper with Eyelets	1
30	514-9932	9" Red 10 GA Jumper with Loop/Loop	1
31	514-9941	12" Orange 14 GA Jumper Spade/Spade	1
32	514-9943	12" Blue 14 GA Jumper 1/4" Spade - 1/4" Spade Insul	1
33	514-9954	Rocker Switch Bracket - Large	1
34	607-0214	Electric Switch Label	1
35	506-9904	#10-16 X 3/4" Self Drilling Screw Hrd Std Znc Hex HD	2
36	505-2503	1/4" Lock Washer - Plated	8
37	506-9929	12-14 X 1 Self Tapping TEK	2
38	514-0325	Strain Relief Seal Ring (Not shown)	1
39	514-0324	Strain Relief Lock Nut	1

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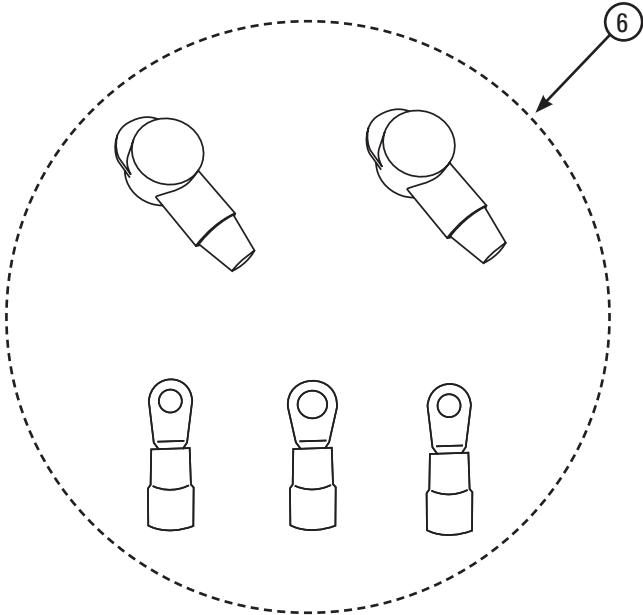
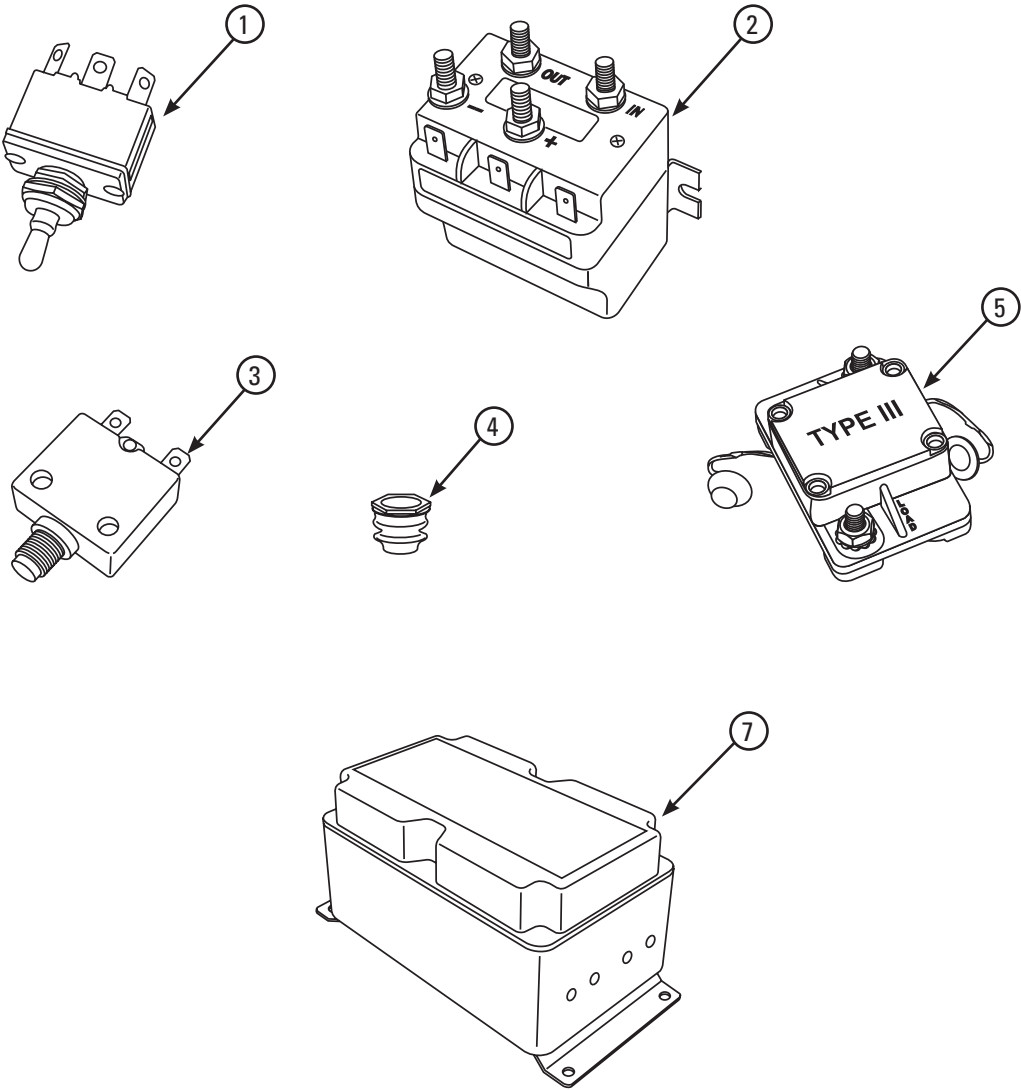
Cab External Switch 12 Volt #501-9952 & 501-9952C



ITEM	PART #	DESCRIPTION	QTY
40	514-9953	4" Black 10 GA Jumper with 1/4" Eyelets	1
41	514-9963	3" Orange 10 GA Jumper with 1/4" Eyelets	1
42	514-9964	12" Red 14 GA Jumper with Spade/Ring	1
43	514-9966	3" Blue 10 GA Jumper with Loop/Loop	1
44	517-9923	Plastic Flanged Solenoid Box (Cover)	1



Smart Switch with External Switch - 12 Volt #501-9953

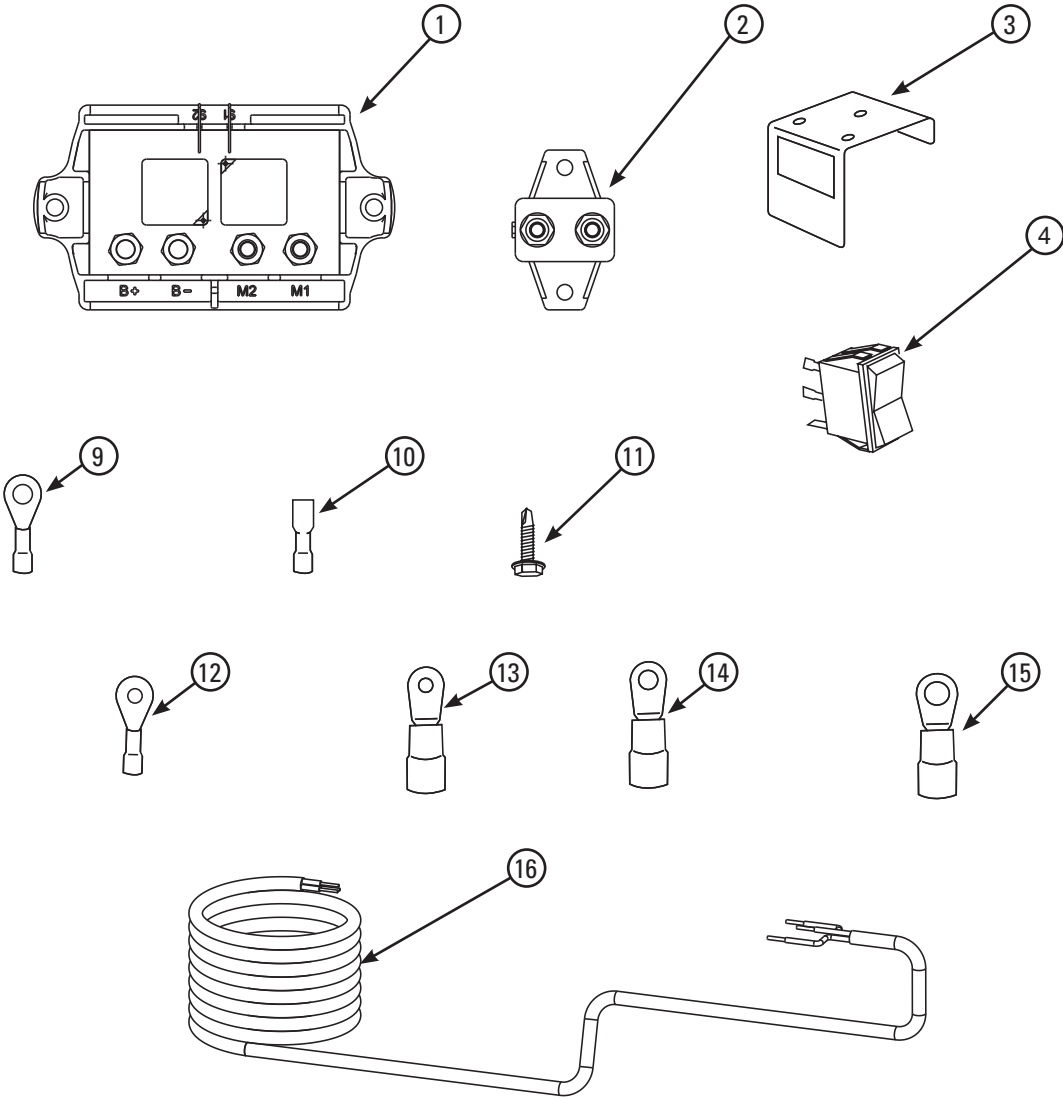


ITEM	PART #	DESCRIPTION	QTY
1	514-0130	Sealed Toggle Switch	1
2	514-9996	50 Amp 12V Reversing Solenoid	1
3	514-0407	50 Amp "Push To Reset" Breaker	1
4	514-0420	Breaker Reset Boot	1
5	514-0434	50 AMP Type III Breaker	1
6	106870	Electrical Terminal Kit	1
7	517-9923	Plastic Housing	1

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Smart Switch Basic Kit #514-0114



ITEM	PART #	DESCRIPTION	QTY
1	514-9978	50 Amp Reversing Contactor	1
2	514-0436	50 Amp Ice Cube Style Breaker	1
3	514-9954	Rocker Switch Bracket	1
4	514-0117	Rocker Switch 3 Position Momentary	1
5	514-0317	Black Terminal Boot	1
6	514-0319	Red Terminal Boot	3
7	514-0342	Blue Terminal Boot	2
8	514-0343	Yellow Terminal Boot	2
9	514-0304	Connector 14 Ga. Lug with 1/4" Eyelet	1
10	514-0321	Push On Female Terminal 16 Ga.	5
11	506-9904	#10 x 3/4" Self Drilling Screw	6
12	514-0303	Connector 14 Ga. #10 Stud Eyelet	2
13	514-0307	Connector 6 Ga. #10 Stud	2
14	514-0308	Connector 6 Ga. Lug with 1/4" Eyelet	4
15	514-0309	Connector 6 Ga. Lug with 3/8" Eyelet	2
16	514-0211	#16 - 3 Wire PVC 27# Copper	25'

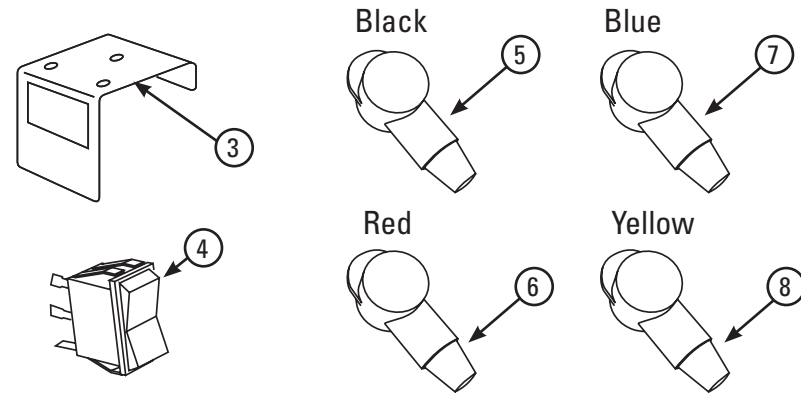
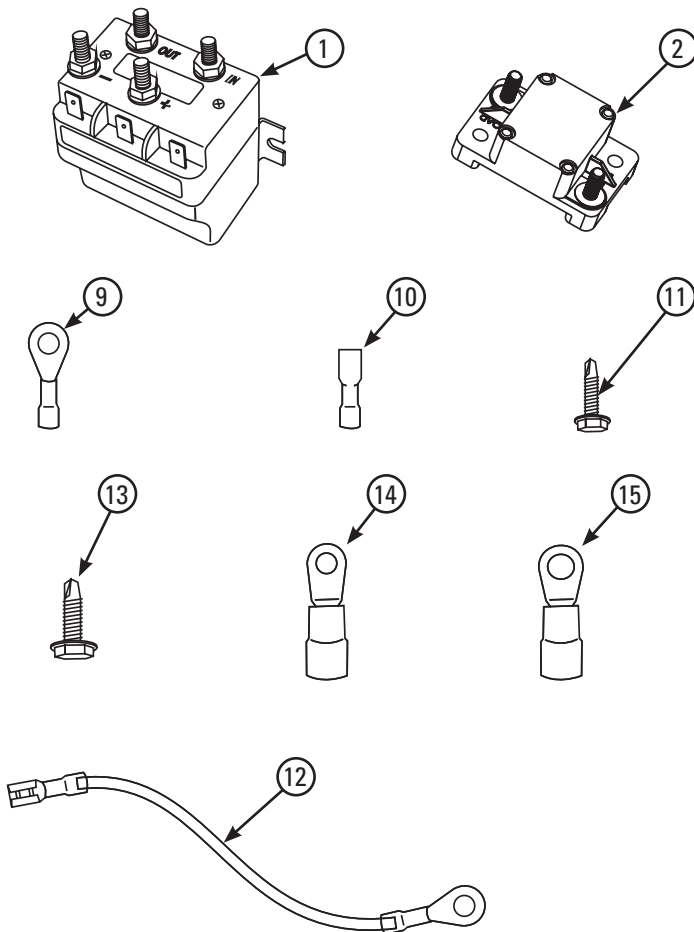
REV. 02/08/21 WLH



PARTS SCHEMATICS

Smart Switches

Deluxe High Amp Switch Kit - 12 Volt #514-0139



ITEM #	PART #	DESCRIPTION	QTY
1	514-9996	Reversing Polarity 12v Solenoid	1
2	514-0434	50 AMP Type III Breaker HIGH-AMP	1
3	514-9954	Rocker Switch Bracket	1
4	514-0117	Rocker Switch 3 Position Momentary	1
5	514-0337	Black Terminal Boot	1
6	514-0336	Red Terminal Boot	3
7	514-0342	Blue Terminal Boot	2
8	514-0343	Yellow Terminal Boot	2
9	514-0304	Connector 14 ga. Lug with 1/4" Eyelet	1
10	514-0321	Push On Female Terminal 16 ga.	5
11	506-9904	#10 x 3/4" Self Drilling Screw	4
12	514-9921	4" Black 10ga. Jumper Wire	1
13	506-9929	#12-14 Self Drilling TEK Screw	2
14	514-0308	Connector 6 ga. Lug with 1/4" Eyelet	8
15	514-0309	Connector 6 ga. Lug with 3/8" Eyelet	2
--	514-0211	#16-3 Wire PVC 27# Copper	25Ft.

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