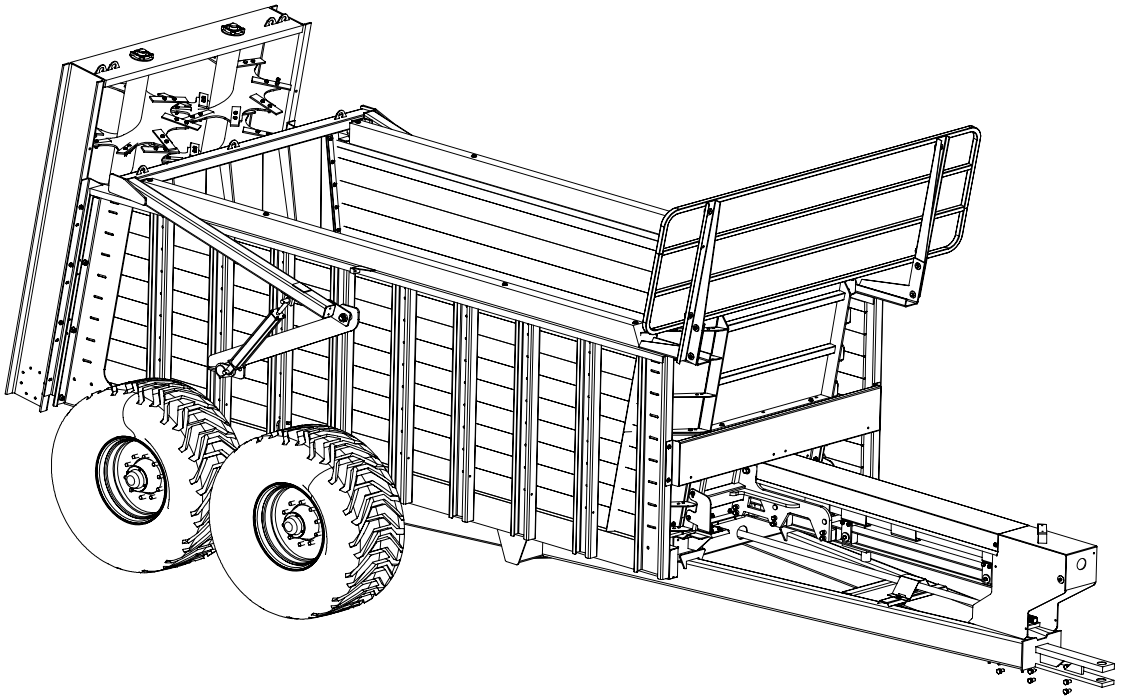
Parts Manual

Extravert 3440

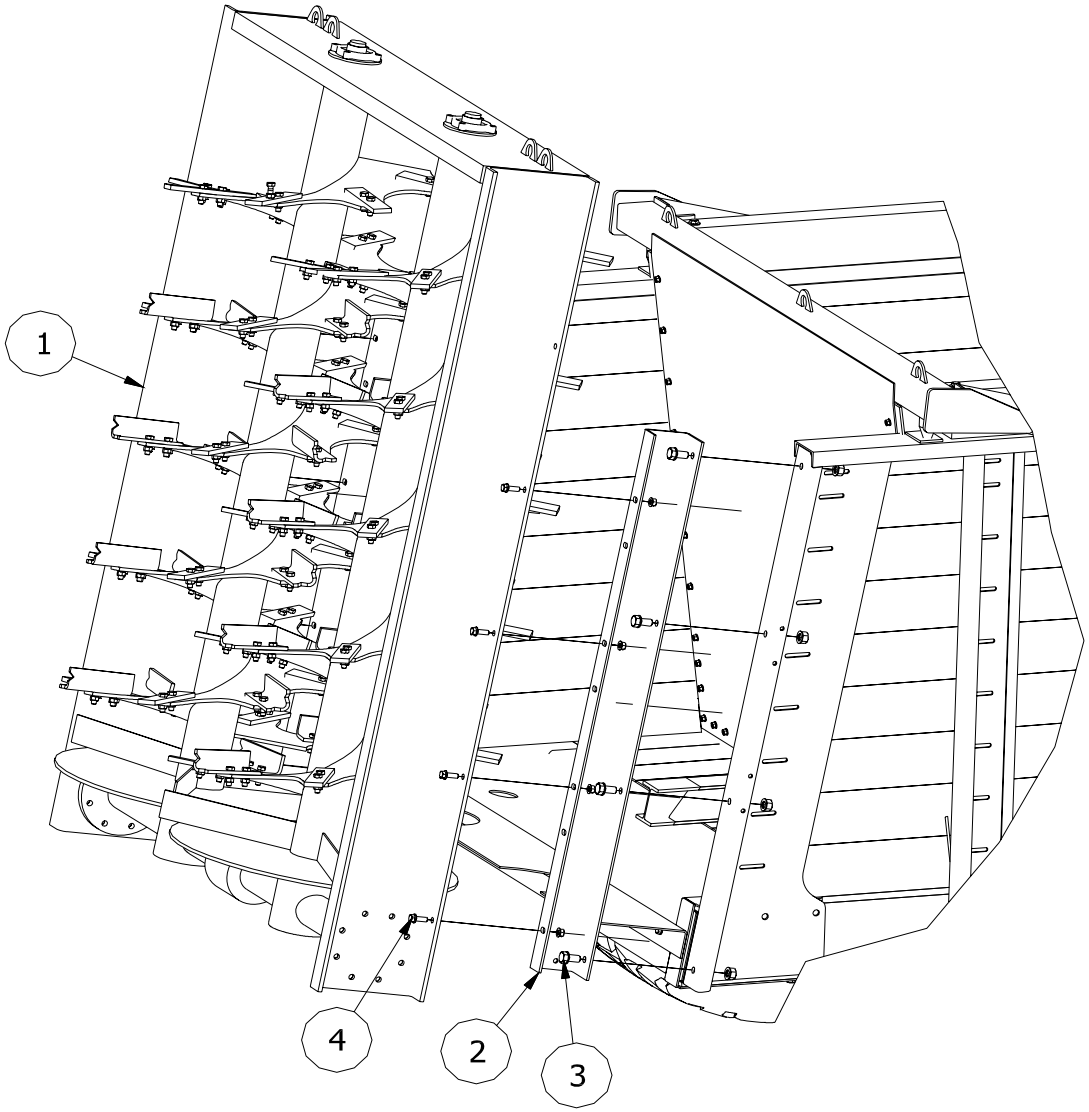
NOVEMBER, 2019

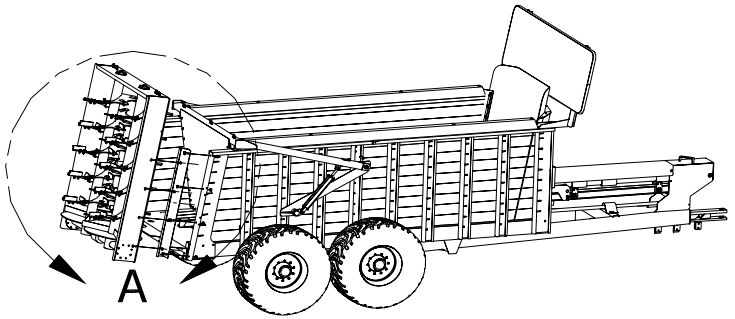


Beaters....Section 1
Beater Assembly....1.1
Beater Breakdown....1.3
Drivetrain....Section 2
Input Shaft, Bearings....2.1
Gearbox....2.3
Beater Pan and Endgate....Section 3
Beater Pan....3.1
Endgate....3.3
Endgate Hydraulics....Section 4
Endgate Hydraulics....4.1
Push-off Hydraulics....Section 5
Push-off Cylinder assembly....5.1
Hydraulic hoses and Control valve....5.3
Push-off cylinder breakdown....5.5
Plastic Boards....Section 6
Plastic Boards....6.1
PTO Shafts....Section 7
PTO shaft assemblies....7.1
PTO shaft breakdown....7.3
Push-Gate and Slide Rail....Section 8
Push-gate assemblies....8.1
Push-gate seals....8.3
Slide rails....8.5
Shields, Covers, and Misc....Section 9
Shields, smv sign, jack, and lights....9.1
Stone Guard....9.3
Wheels, Axles, Hubs....Section 10
Axles....10.1
Spindles and hubs....10.3

Beater Assembly	1.1
Beater Breakdown	1.3

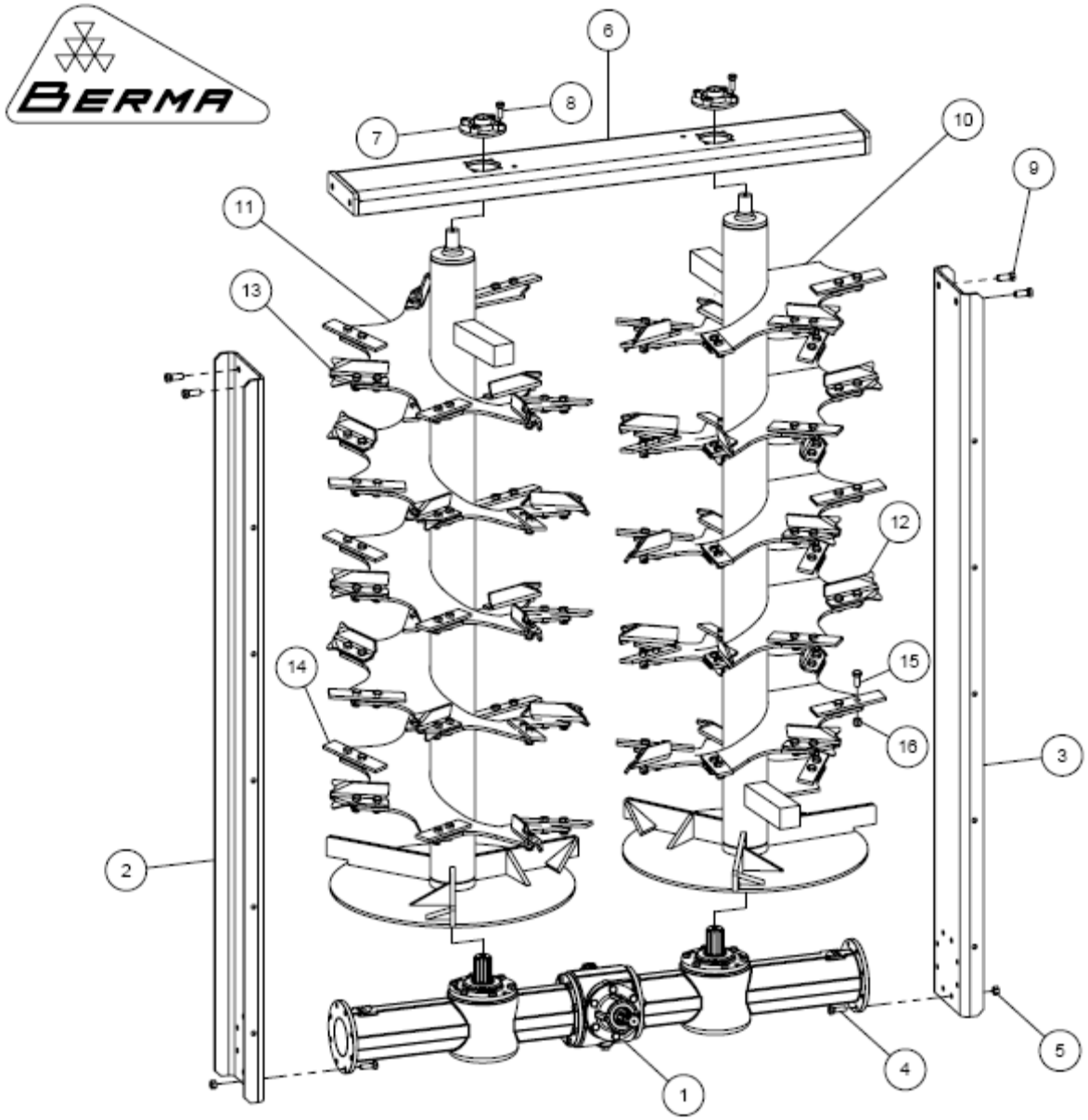
key	Qty	Description		Part Number
1	1	Vertical Beaters COMPLETE KIT		DISCONTINUED
2	2	Vertical Beater Adaptor		70549
3	AR	Bolts	3/4 x 1 1/2 (8), SAE Washer (16), Locknut (8)	
4	AR	Bolts	1/2 x 1 1/2 (8), SAE Washer (16), Locknut (8)	





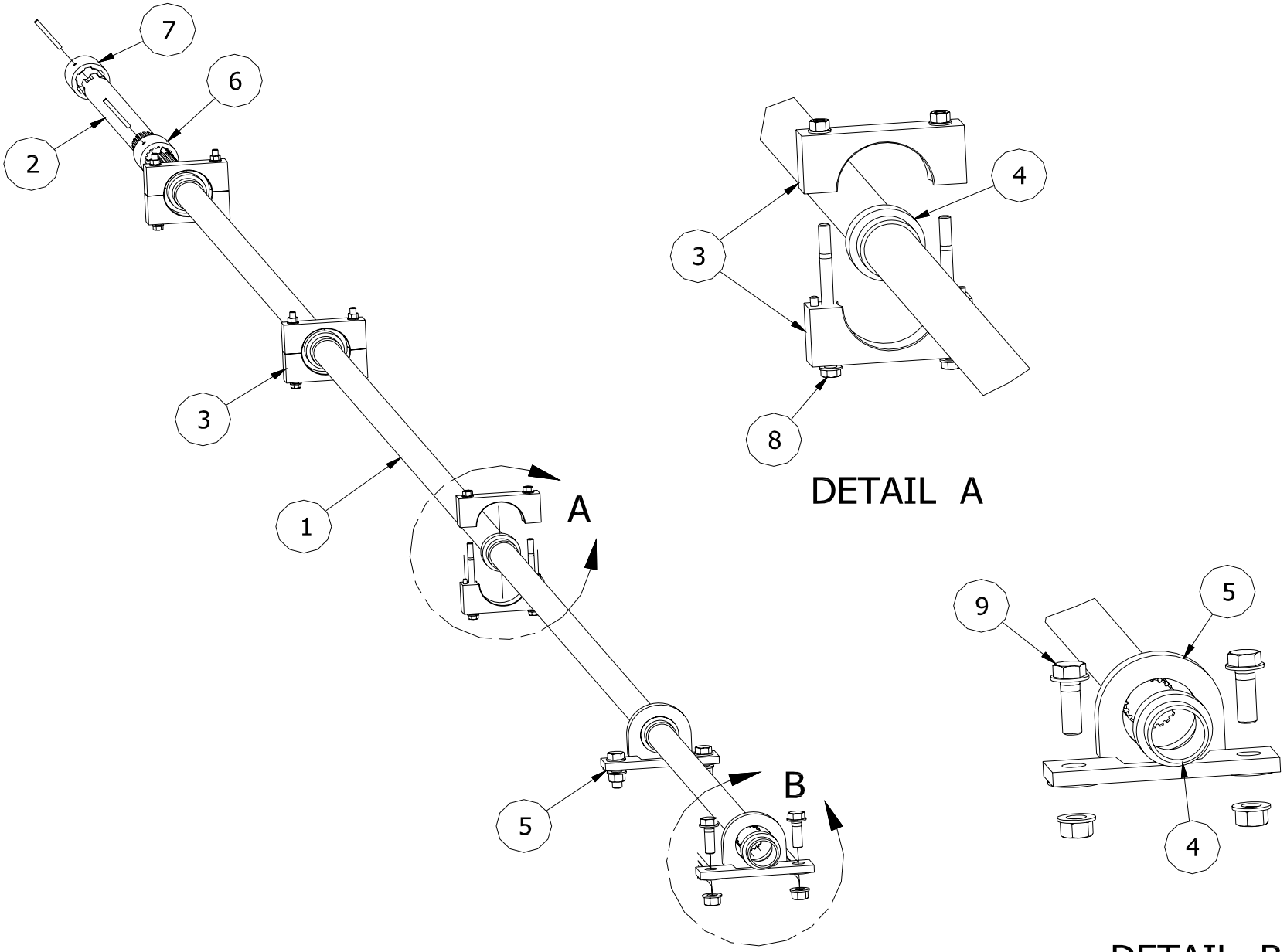
DETAIL A

key	Qty	Description	Part Number
1		Gearbox Assembly	1399-1037
2		Beater frame, Right side	13680-B
3		Beater frame, Left side	13681-B
4, 5		Bolts	M14 x 45 - 8G, Nut M14 - 8G
6		Beater frame top cross-member	1314-1009
7		Bearing	9905-B
8		Bolts	M14 x 40 - 8G
9		Bolts	M18 x 45 - 8G
10		Left side beater	1313-1031
11		Right side beater	1313-1030
12		Cup, left side beater --> NOW UNIVERSAL LEFT OR RIGHT	12833-B
13		Cup, right side beater --> NOW UNIVERSAL LEFT OR RIGHT	12833-B
14		Knife	9569-B
15		Bolts	BOLT 79861, Nut 79862
16			


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Input shaft, Bearings	2.1
Gearbox	2.3

key	Qty	Description	Part Number
1	1	Input Shaft	76018
2	1	Short Shaft	76081
3	3	2 piece bearing housing, machined steel	76009
4	5	Bearing Insert	76049
	3	Bearing assembly, 2 piece machined, Includes keys 3 and 4	76088
5	2	Pillow block bearing housing, ductile iron	76391
	2	Bearing assembly, ductile pillow block, includes keys 4 and 5	76048
6	1	Splined Coupler, 1 3/4-20 Spline bore	76019
7	1	Splined Coupler, 1 3/4-6 Spline bore	76082
8	AR	Bolts	3/8 x 5 (6), SAE Flat Washers (12), Locknut (6)
9	AR	Bolts	5/8 x 2 (4), SAE Flat Washers (8), Locknut (4)

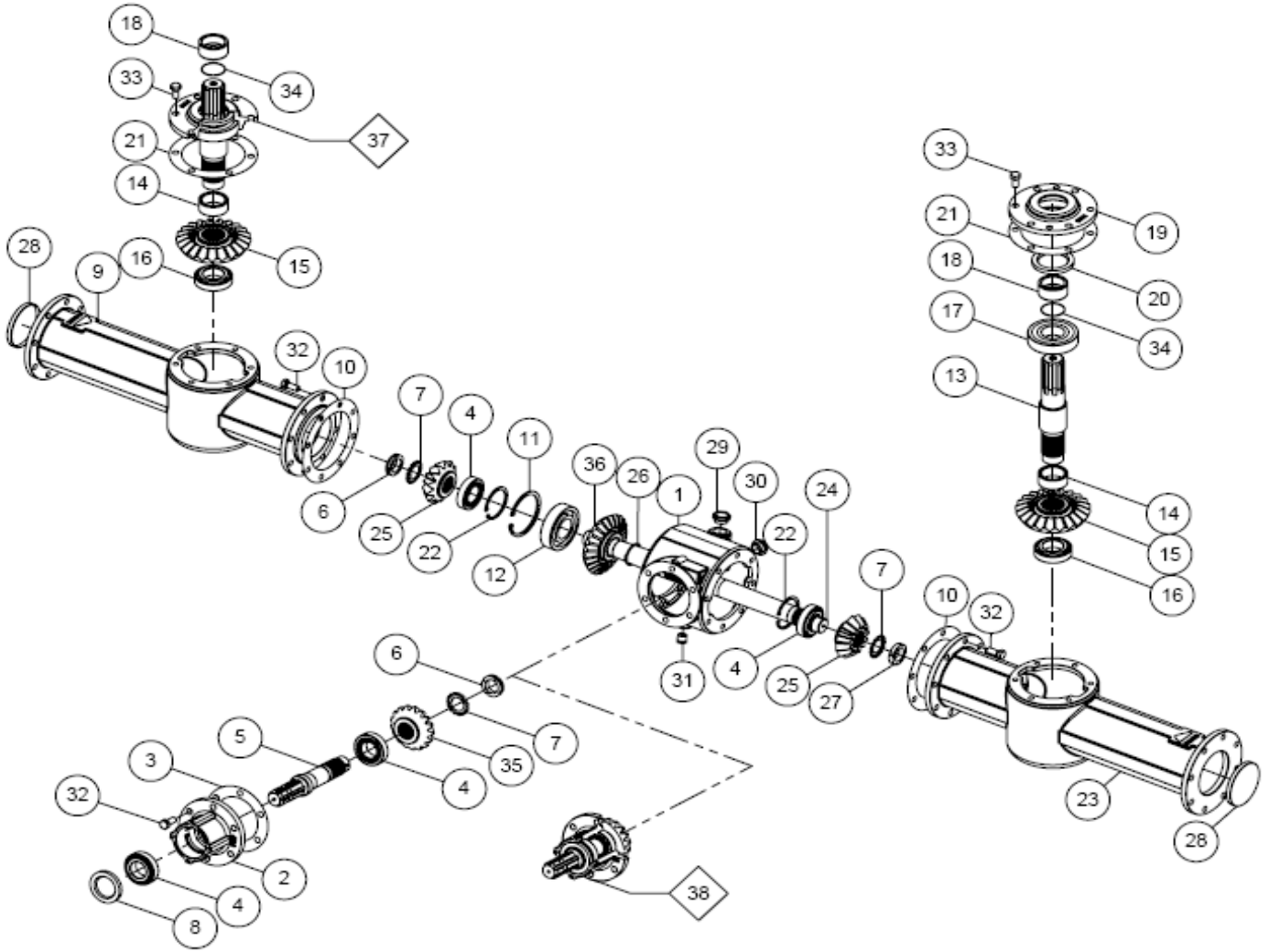

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DETAIL A
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DETAIL B

key	Qty	Description	Part Number
3	1	Input Shaft Housing Gasket	9133-B
4	4	Bearing 32209	1259-B
6	2	Washer M40x1.5	9137-B
7	3	Star Washer M40	9011-B
8	1	Oil Seal 55/85/10	7480-B
10	2	Gasket	9135-B
11	1	C-Clip	1540-B
12	1	Bearing 6311	1531-B
14	2	Spacer	9123-B
15	2	Gear	9052-B
16	2	Bearing 32210	3349-B
17	2	Bearing 6311 - 2RS	13103-B
18	2	Spacer	9124-B
20	2	Oil Seal 70/100/10	7481-B
21	2	Gasket	9134-B
22	2	Circlip	3436-B

Complete Gearbox	1399-1002

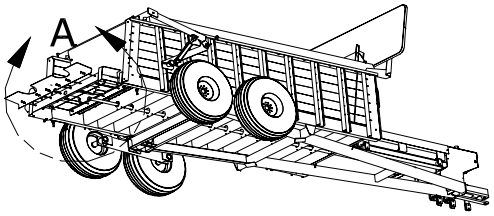
key	Qty	Description	Part Number
24	1	Shaft	10594-B
25	2	Gear	9051-B
26	1	Circlip	3430-B
27	1	Washer M40 x 1.5	9138-B
28	2	Cap 120mm	9345-B
29	1	Fill cap / Vent	9301-B
30	1	Oil Window	9179-B
31	1	Drain Cap	9707-B
32	22	Bolt M14 x 35 - 8G	3549-B
33	12	Bolt M14 x 30 - 8G	4138-B
34	2	Ring	9139-B
35	1	Gear	10380-B
36	1	Gear	10381-B
37	2	Output Shaft Assembly	9141-B
38	1	Input Shaft Assembly	9783-B

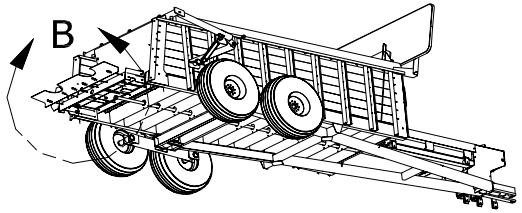
COMPLETE ASSEMBLY DISCONTINUED OCTOBER, 2019

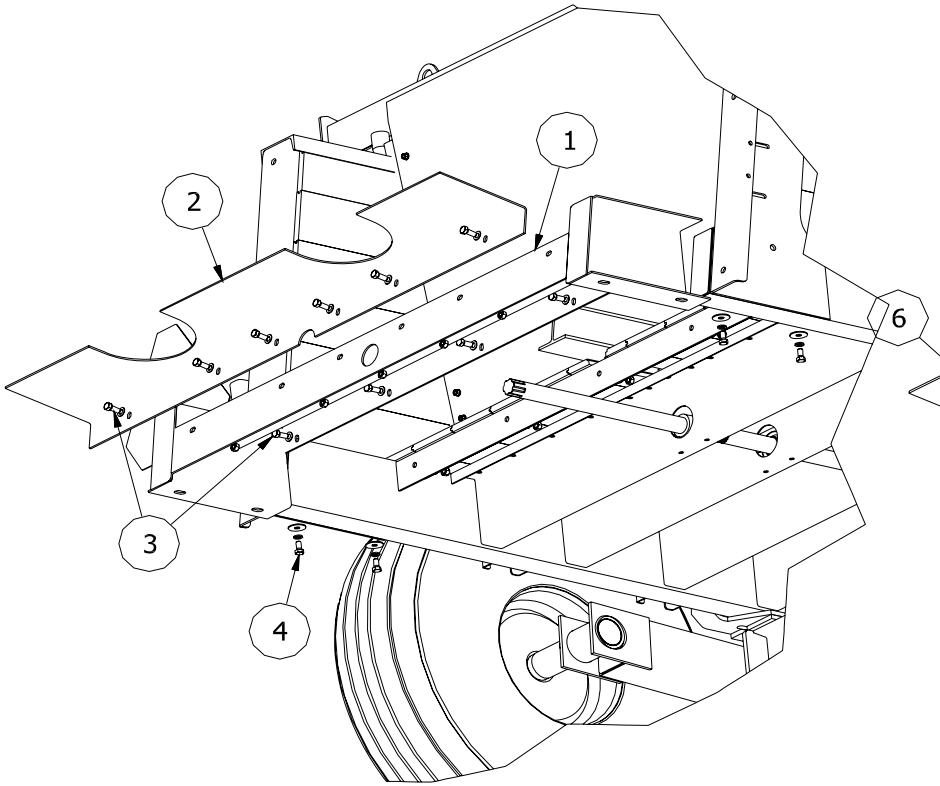


Beater pan	3.1
Endgate	3.3

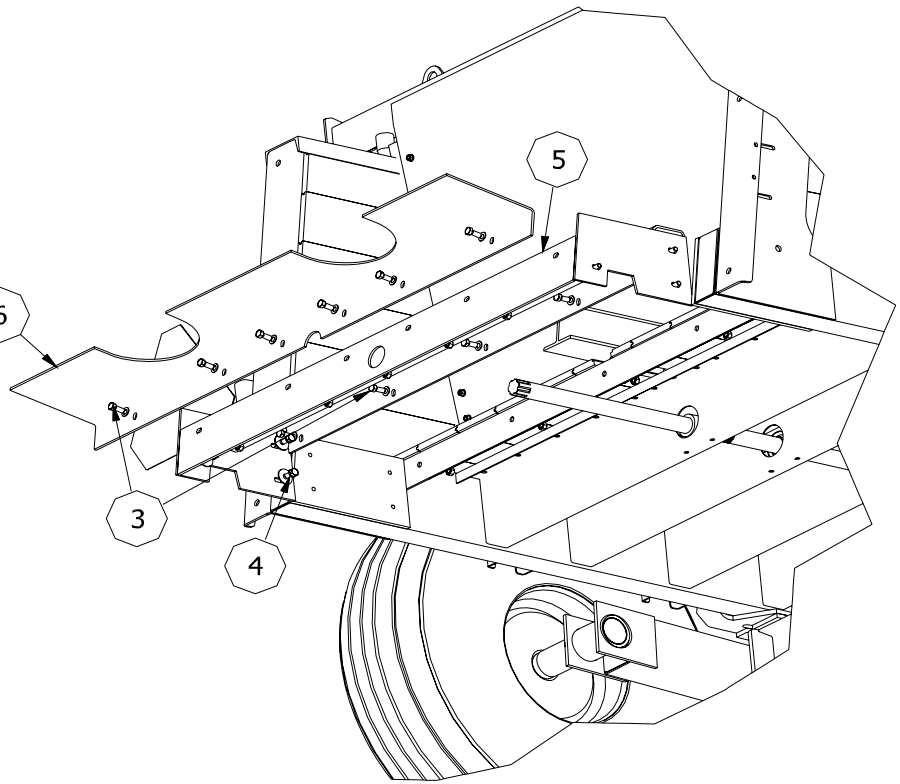
key	Qty	Description		Part Number
1	1	Front Section of Pan, 2nd Gen		20045
2	1	Back Section of Pan, 2nd Gen		70581
3	AR	Bolts	1/2 x 1 1/2 (11), 1/2 SAE flat washer (22), Locknut (11)	
4	AR	Bolts	1/2 x 1 , Special Washer - 79010, 1/2 Lockwasher	
5	1	Front Section of Pan, Early Style		N/A
6	1	Back Section of Pan, Early Style		N/A





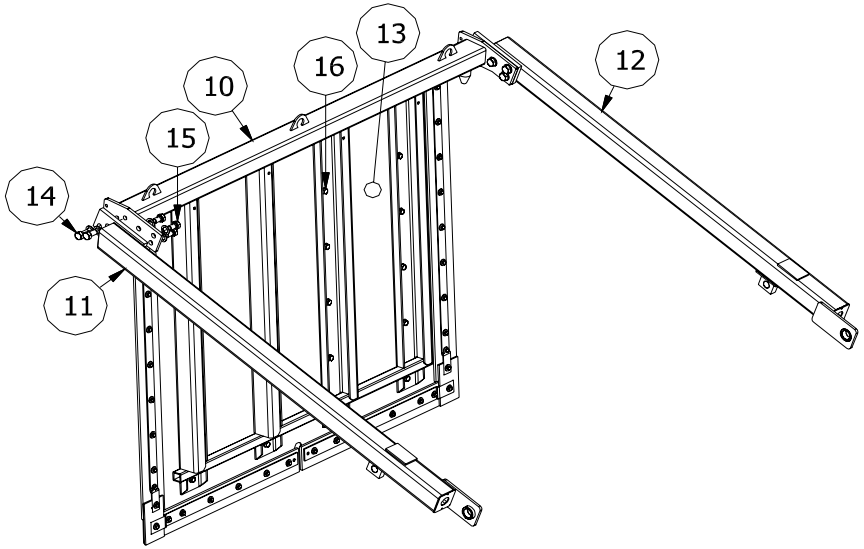


DETAIL A

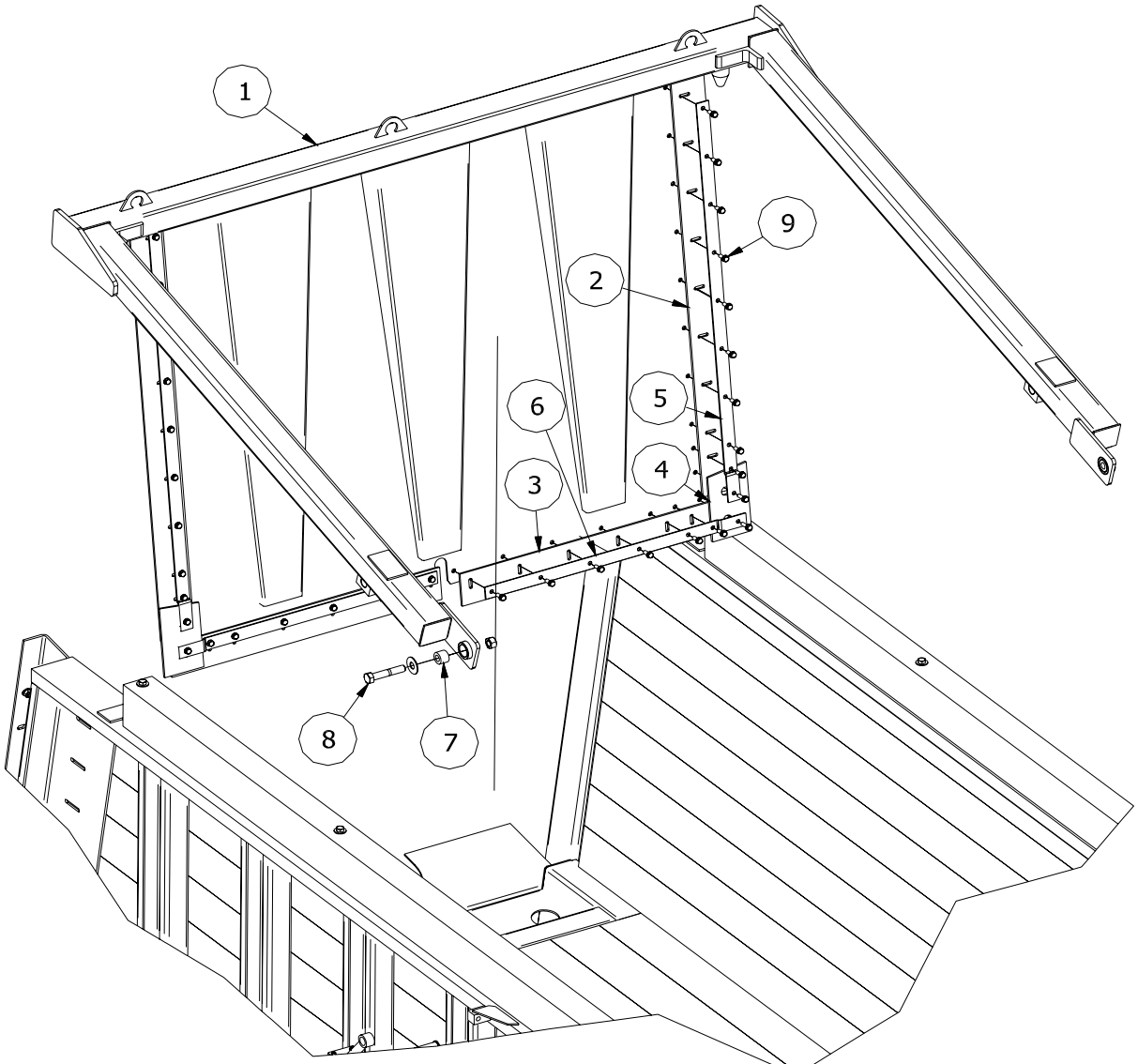


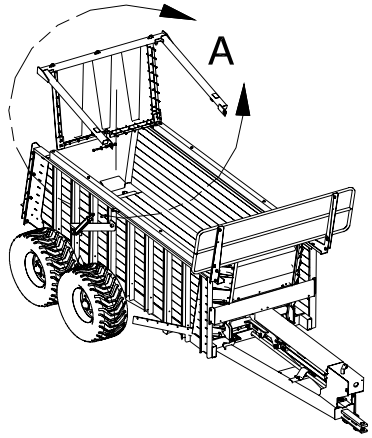
DETAIL B

key	Qty	Description		Part Number
1	1	Endgate Weldment	Replace with 20135, 20146R, 20146L, and 74063 shown below	
2	2	Rubber Strip, Endgate Side		78029
3	2	Rubber Strip, Endgate Bottom		78084
4	2	Rubber for Corners of Endgate		78250
5	20	SPECIAL WASHER, Endgate Side		1399-1030
6	14	SPECIAL WASHER, Endgate Bottom		1399-1030
7	2	Endgate Pivot Bushing		74240
8	2	Bolts, Endgate Pivot	3/4 x 4 (2), USS flat washer (2), Locknut (2)	
9	AR	Bolts, Endgate Seal Kit	3/8 x 1 1/2 (34), 3/8 SAE washer (68), Locknut (34)	
		Endgate Seal Kit, Includes keys 2-6, and 9		20119
10	1	Endgate Frame		20205
11		Endgate Arm, Right		20146R
12		Endgate Arm, Left		20146L
13		Endgate Panel		74063
14,15		Bolts, Endgate Arm	3/4 x 1 1/4 (6), 3/4 x 1 1/2 (4), Grade 8 Washer (10)	
16		Bolts, Endgate Panel	1/2 x 1 1/4 (24), SAE washer (48), Locknut (24)	



All replacement endgates for model 3440 are 3pc bolted designs. See drawing to left.

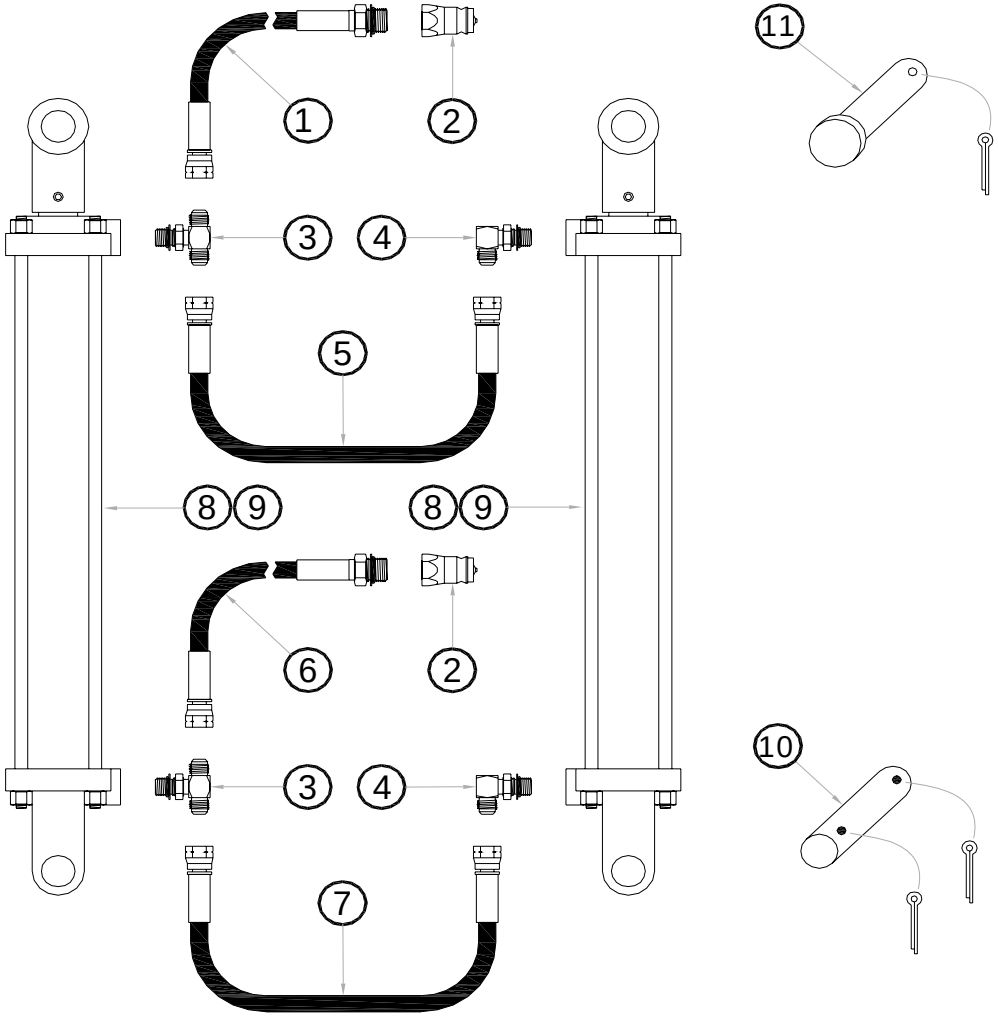




DETAIL A

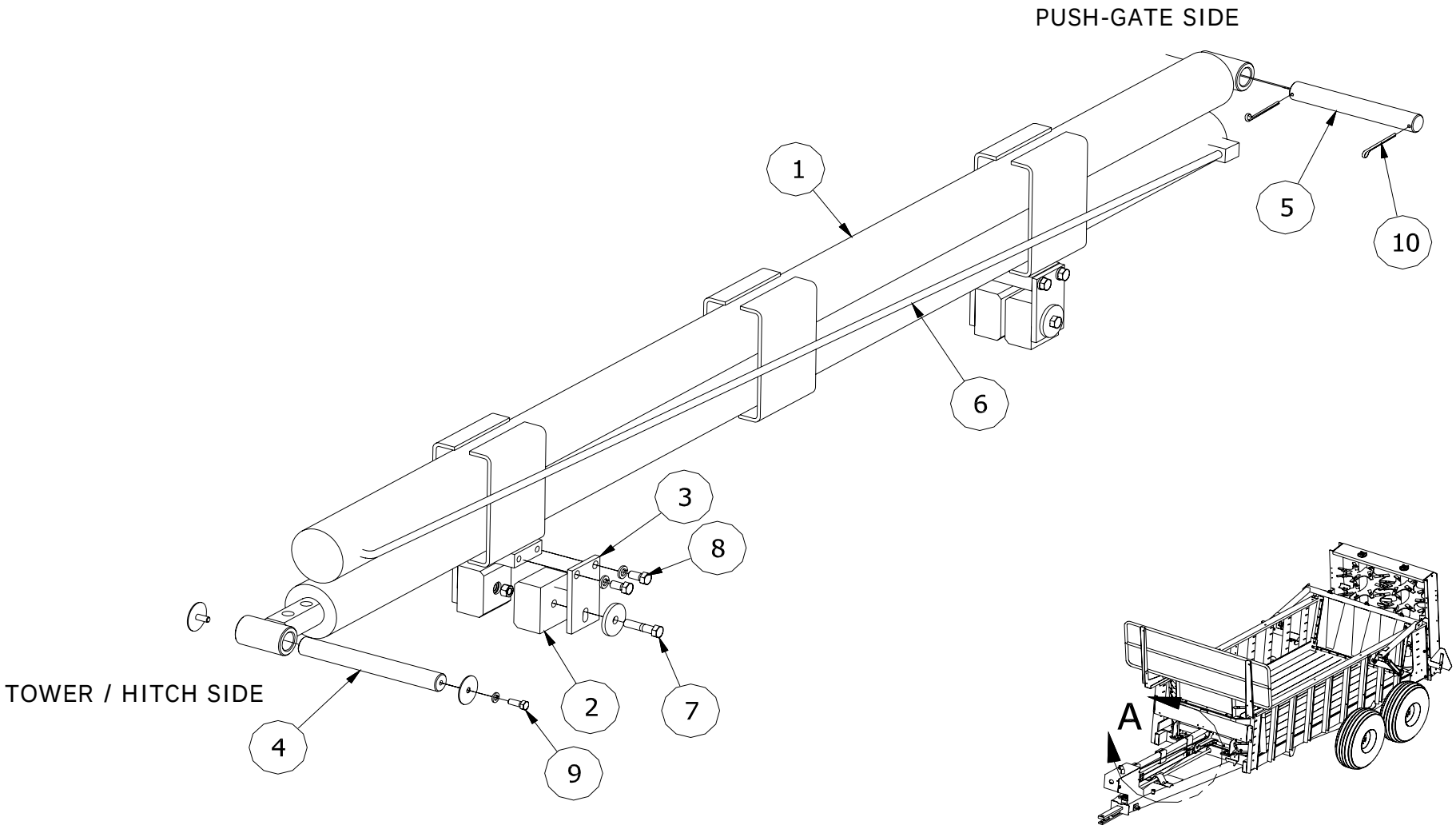
Endgate hydraulics 4.1

key	Qty	Description	Part Number
1	1	Hose, connecting upper port of cylinders to tractor	77262
2	2	ISO Male tip (poppet style)	77500
3	2	T-Fitting	77530
4	2	L-Fitting	77520
5	1	Hose, connecting upper port of cylinders	77054
6	1	Hose, connecting lower port of cylinders to tractor	77272
7	1	Hose, connecting lower port of cylinders	77051
8	2	Endgate cylinder	77098
9		Seal Kit	77161
10	2	Endgate cylinder pin with two cotter pins	77640
11	2	Headed endgate cylinder pin with one cotter pin	77070


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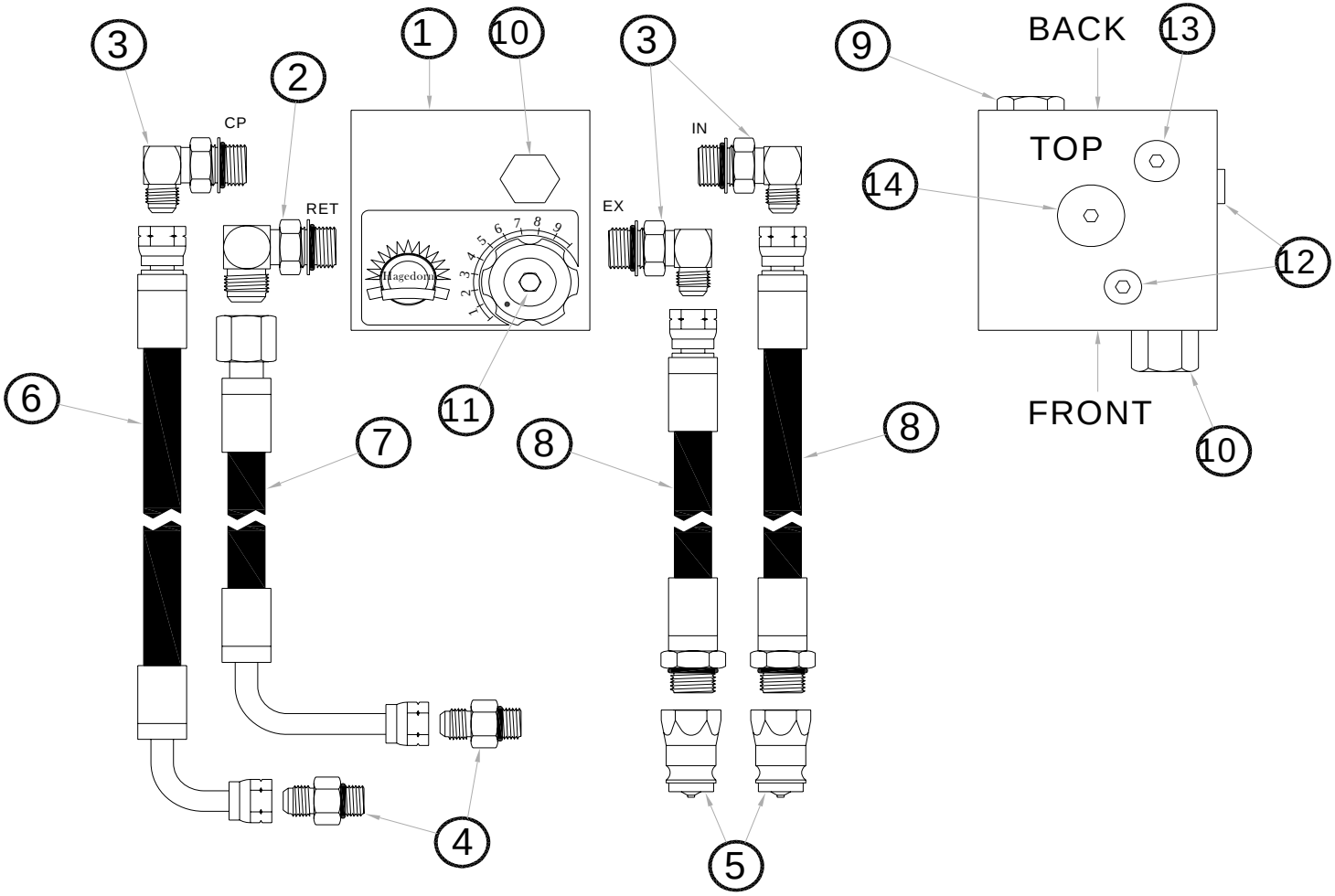
Push-off cylinder assembly	5.1
Hydraulic hoses and control valve	5.3
Push-off cylinder breakdown	5.5

key	Qty	Description		Part Number
1	1	Push-off Cylinder (including keys 2 and 3)		20184
2	4	Cylinder Slide		75082
3	4	Standoff for cylinder slide		77855
4	1	Cylinder Pin at Tower		77068
5	1	Cylinder Pin at Push-Gate		77042
6	1	External conductor tube		77018
7	AR	Bolts	1/2 x 2 1/2 (4), Special Washer-79010 (4), Locknut (4)	
8	AR	Bolts	1/2 x 1 1/4 (8), Lockwasher (8)	
9	AR	Bolts	3/8 x 1 (2), Lockwasher (2), Washer 1399-1030 (2)	
10	2	Cotter pins		3/16 x 2

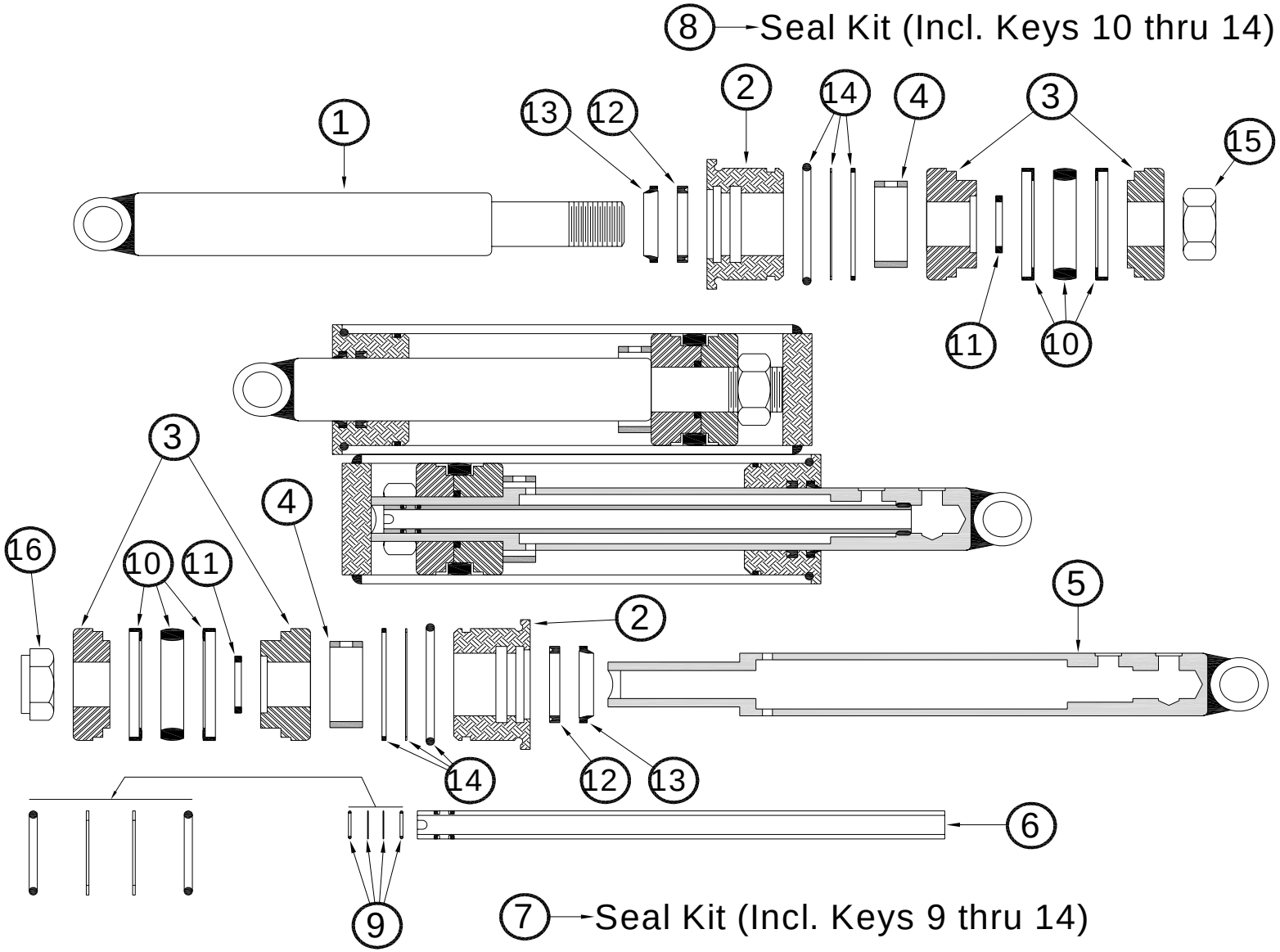


DETAIL A

key	Qty	Description	Part Number
1		Flow Control Valve	77003
2		L-Fitting	77681
3		L-Fitting	77680
4		Male Connector	77400
5		ISO Male Tip (poppet style)	77500
6		Hose, CP to Cylinder	77232
7		Hose, RET to Cylinder	77222
8		Hose, IN/EX to Tractor	77212
9		Check Valve for Flow Control Valve	77058
10		Differential Sensing Valve for Flow Control Valve	77059
11		Metering Cartridge for Flow Control Valve	77060
12		#4 ORB Hex Socket Plug	77061
13		#6 ORB Hex Socket Plug	77062
14		#8 ORB Hex Socket Plug	77063


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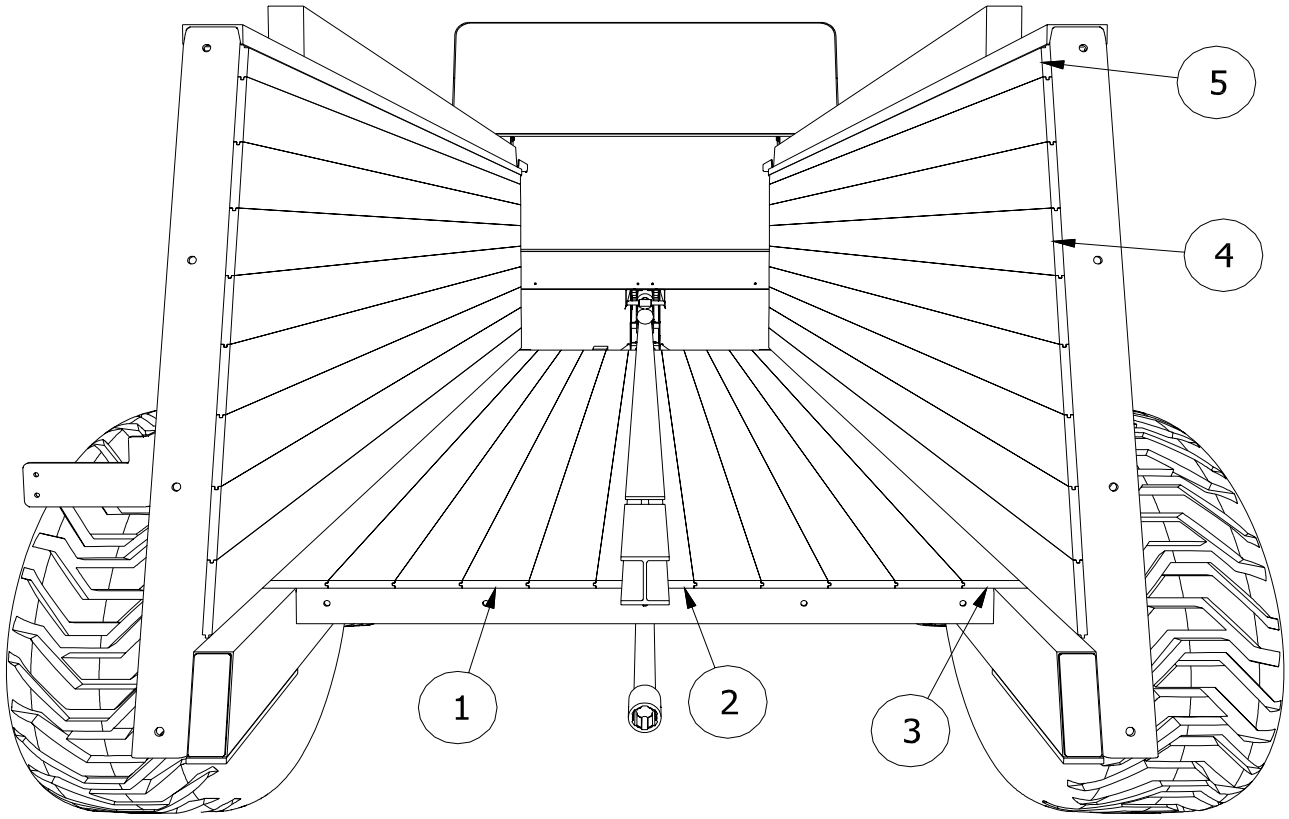
key	Qty	Description	Part Number
1		Solid Rod	DISCONTINUED
2		Gland	77045
3		Piston	77030
4		Spacer	77033
5		Hollow Rod	DISCONTINUED
6		Internal Conductor Tube	DISCONTINUED
7		Seal Kit, Hollow Rod	77019
8		Seal Kit, Solid Rod - No Longer Available	N/A
9		O-Rings & Backups for internal co	- Included in key 7. Not available seperately
10		Piston Seals	
11		O-Ring	
12		Rod Seal	
13		Rod Wiper	
14		O-Ring & Backup for Gland Seal	
15		Nut for solid rod	77034
16		Nut for hollow rod	77035

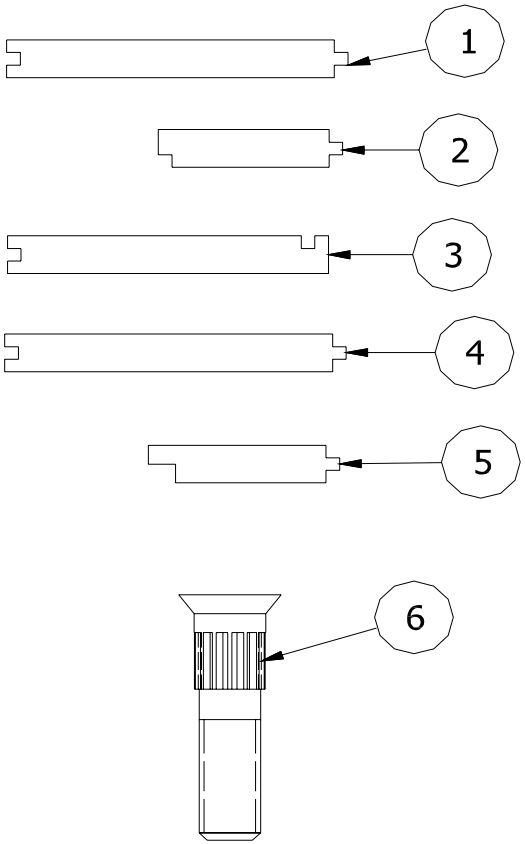

8 Seal Kit (Incl. Keys 10 thru 14)
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7 Seal Kit (Incl. Keys 9 thru 14)

Plastic boards 6.1

key	Qty	Description	Part Number
1	8	Floor Board	1315-1014
2	2	Centre Floor Board	1315-1014
3	2	Outside Floor Board	1315-1014
4	16	Side Board	1315-1014
5	2	Top Side Board	78088
6	372	Special Bolt for Plastic boards	79005
	372	Special washer for plastic boards	79344
	372	Locknut	3/8" Plated

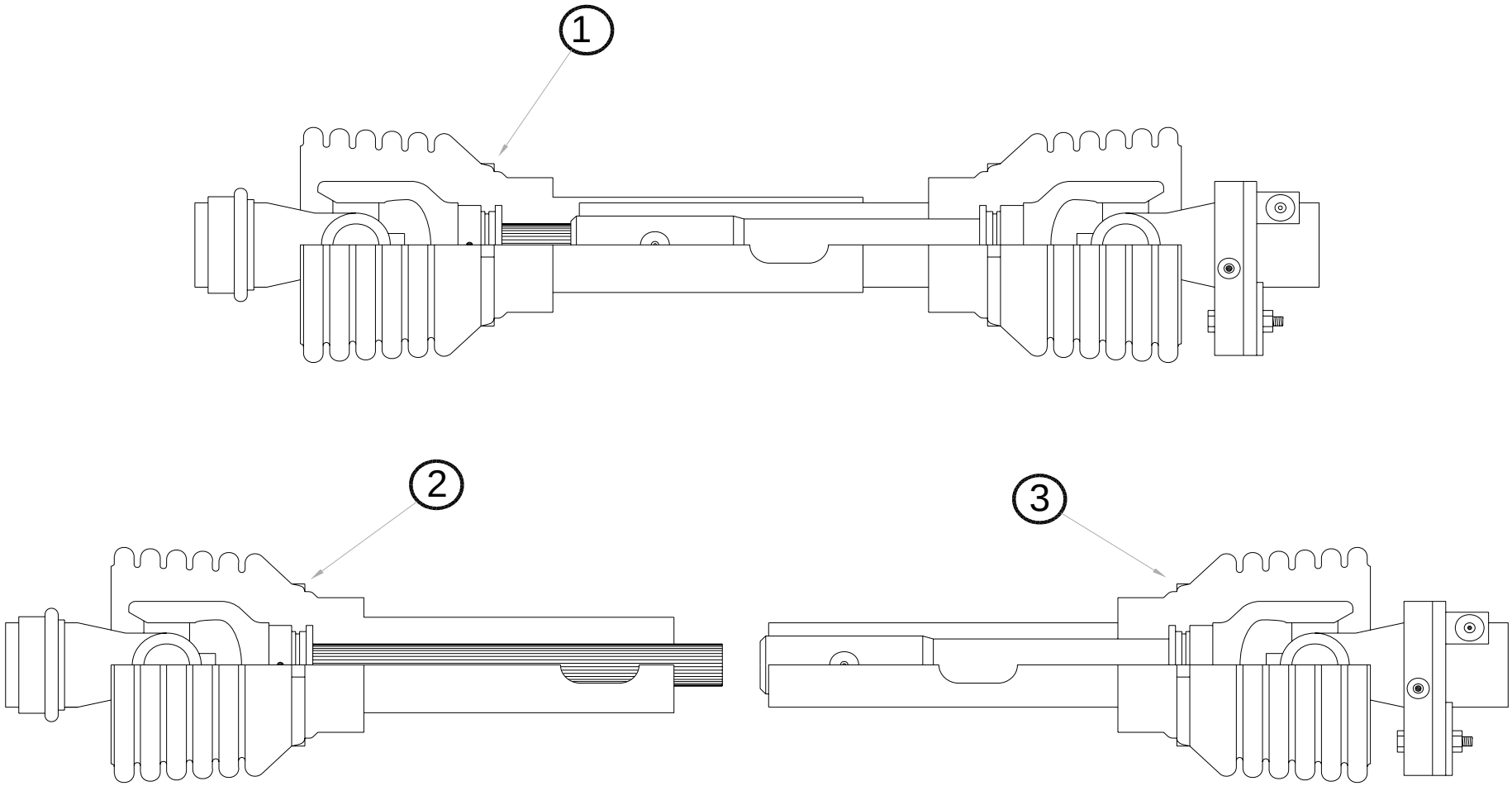
ALL BOARDS COME AT STOCK LENGTHS WITH SELECTED PROFILE AND REQUIRE BEING CUT TO LENGTH


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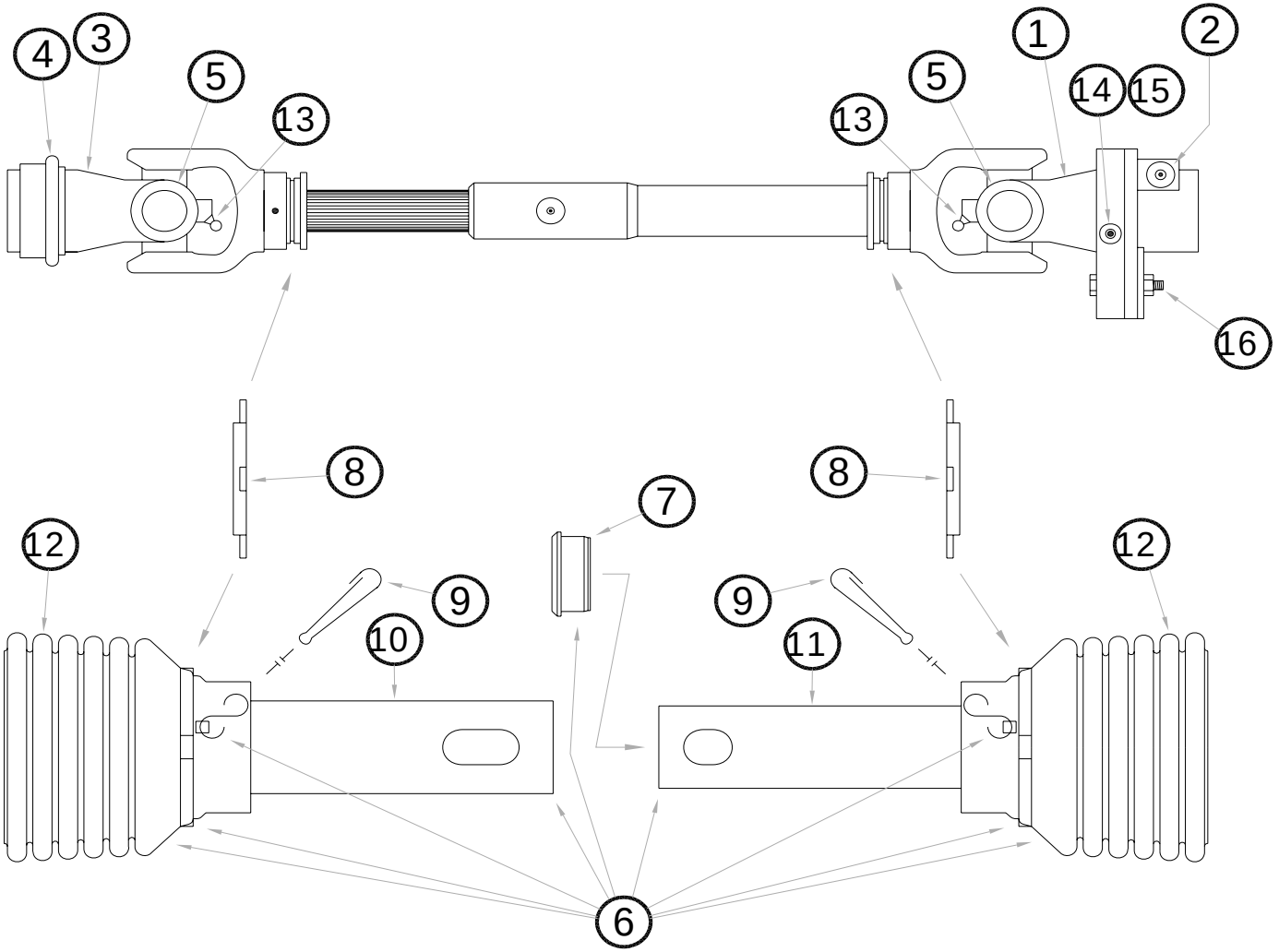

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PTO shaft assemblies	7.1
PTO shaft breakdown	7.3

key	Qty	Description	1000 RPM	
			1 3/8-21	1 3/4-20
1	1	Complete Shaft	76044	76045
2	1	Tractor half shaft	76058	76059
3	1	Implement half shaft	76061	


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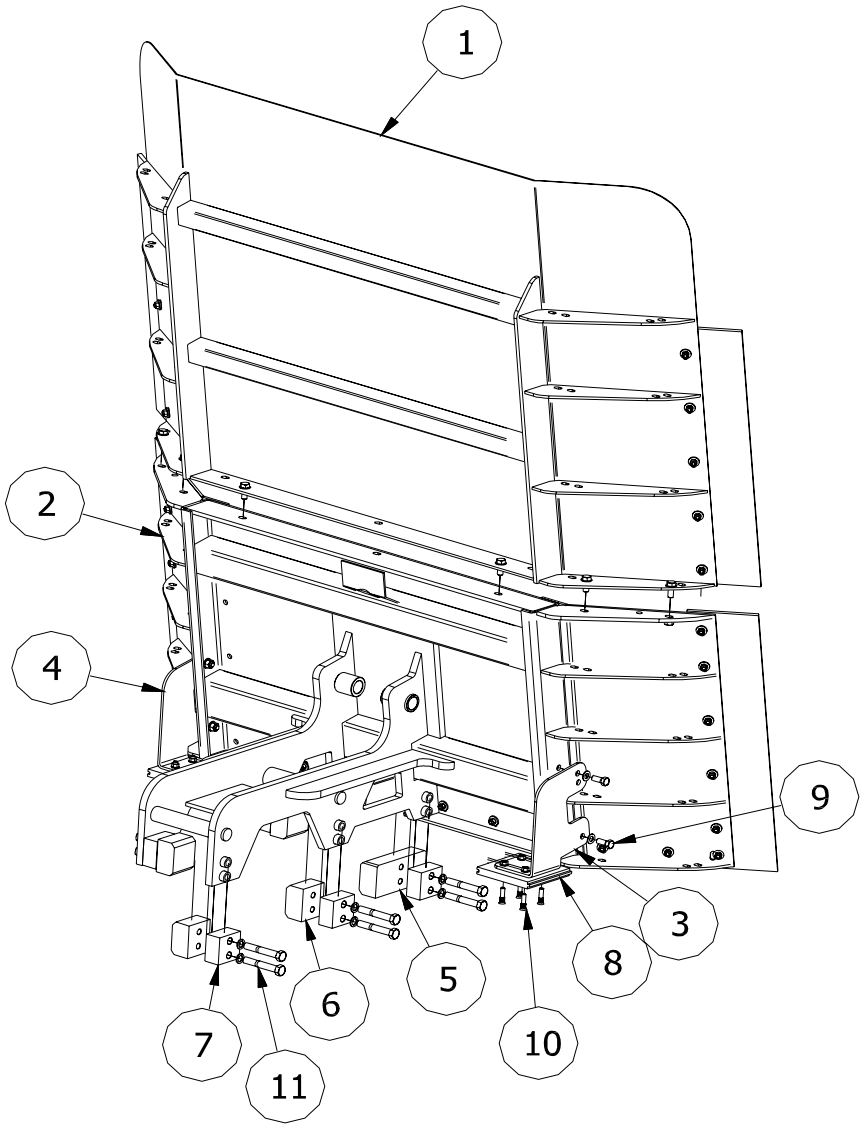
key	Qty	Description	1000 RPM	
			1 3/8-21	1 3/4-20
1	1	Implement End Yoke	76044.3	
2	AR	Repair Kit, Implement End Yoke — 16x80mm bolt Grade 8.8 (2), locknut (2)		
3	1	Tractor End Yoke	76450.1	76580.1
4	AR	Repair kit, slide collar, tractor end yoke	76440.2	76580.2
5	AR	Cross kit for all Waltershied Shafts	76440.5	
6	AR	Replacement shield with bearings and safety chains	76044.6	
7	AR	Support bearing for inner shield	76440.04	
8	AR	Shield Bearing Ring	76440.05	
9	AR	Safety Chain, for all PTO shafts	76440.06	
10	AR	Outer Shield Tube	76044.02	
11	AR	Inner Shield Tube	76044.03	
12	AR	Shield Cone	76440.01	
13	AR	Grease Zerk, for cross and bearing kit	76440.11	
14	AR	Grease Zerk, for shear bolt yoke	76440.9	
15	AR	Bearing ball, for shear bolt yoke	76440.07	
16	AR	Shear bolt — SAE 3/8 x 2 1/4 Grade 5		


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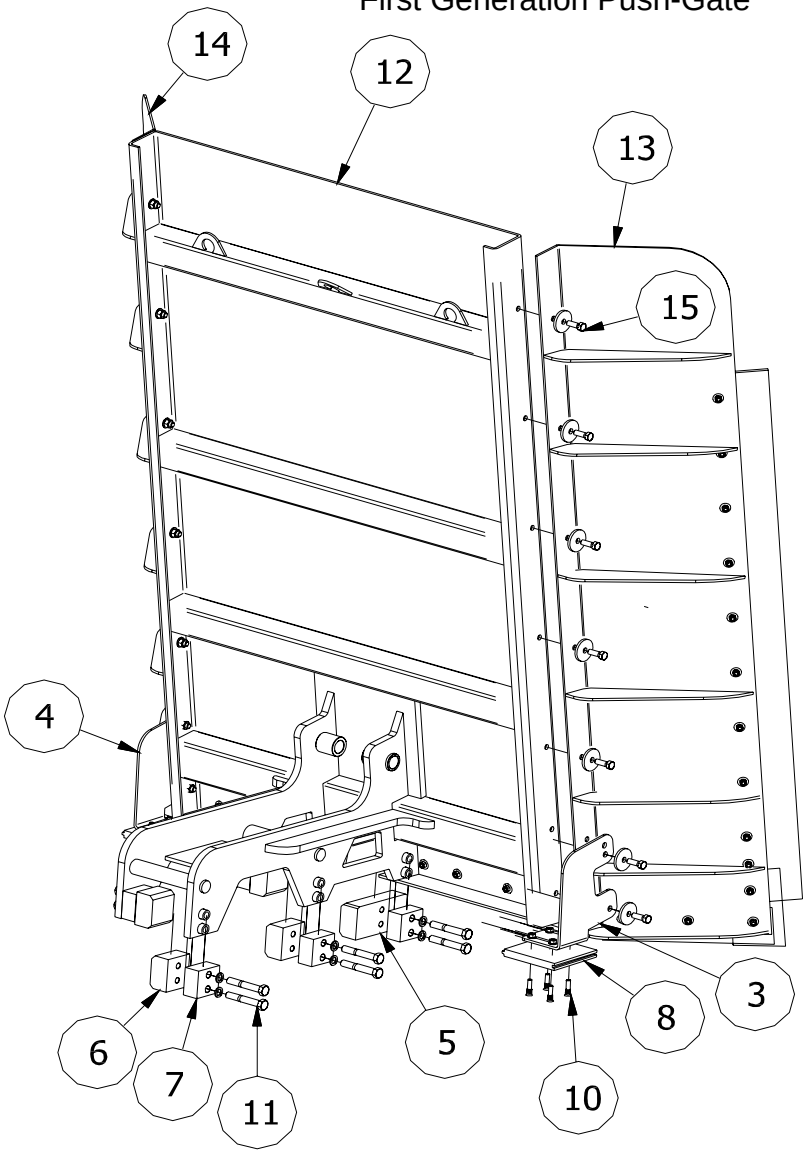
Push-gate assemblies	8.1
Push-gate seals	8.3
Slide rail	8.5

key	Qty	Description		Part Number
1	1	Push-gate extension weldment		20050
2	1	push-gate base weldment		20052
3	1	Push-gate leveling device (left)		75202L
4	1	Push-gate leveling device (right)		75202R
5	2	Back sled bearing		1399-1014
6	4	Front sled bearing		1399-1014
7	6	Sled bearing spacer		75166 X2
8	2	Bearing plate for leveling device		75204
9	AR	Bolts	1/2 x 1 1/4 (4), SAE washer (8), Locknut (4)	
10	AR	Bolts	79005(4), 79344 (4), 3/8 Locknut (4)	
11	AR	Bolts	5/8 x 4(10), SAE washer (10), Lockwasher (10)	
12	1	Push-gate main panel, Not available, replace with 20060		N/A
13	1	Push-gate wing (left)		20056L
14	1	Push-gate wing (right)		20056R
15	AR	Bolts	1/2 x 1 1/2 (14), Spcl Washer-79029 (14), SAE Washer (14), Locknut (14)	
		Complete Push-gate Assembly (Keys 1 to 11)		20060
		Sled Bearing Kit, 3440, Includes keys 5, 6, and 11		20079

Second Generation Push-Gate
Retrofits to all

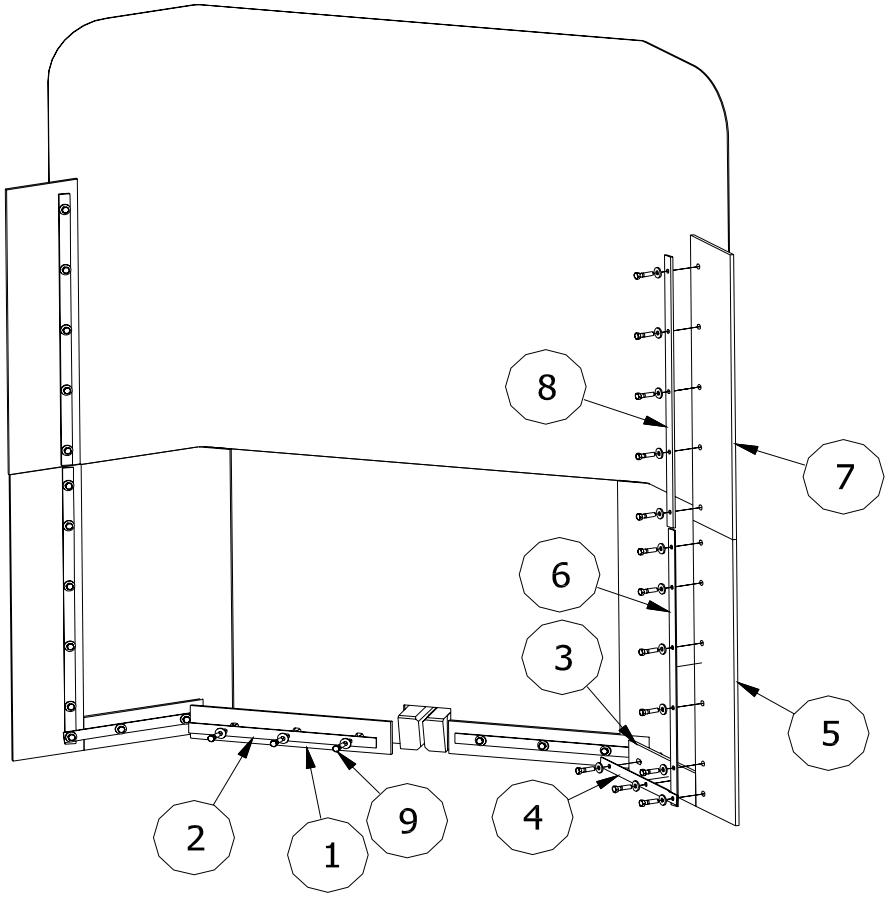


First Generation Push-Gate

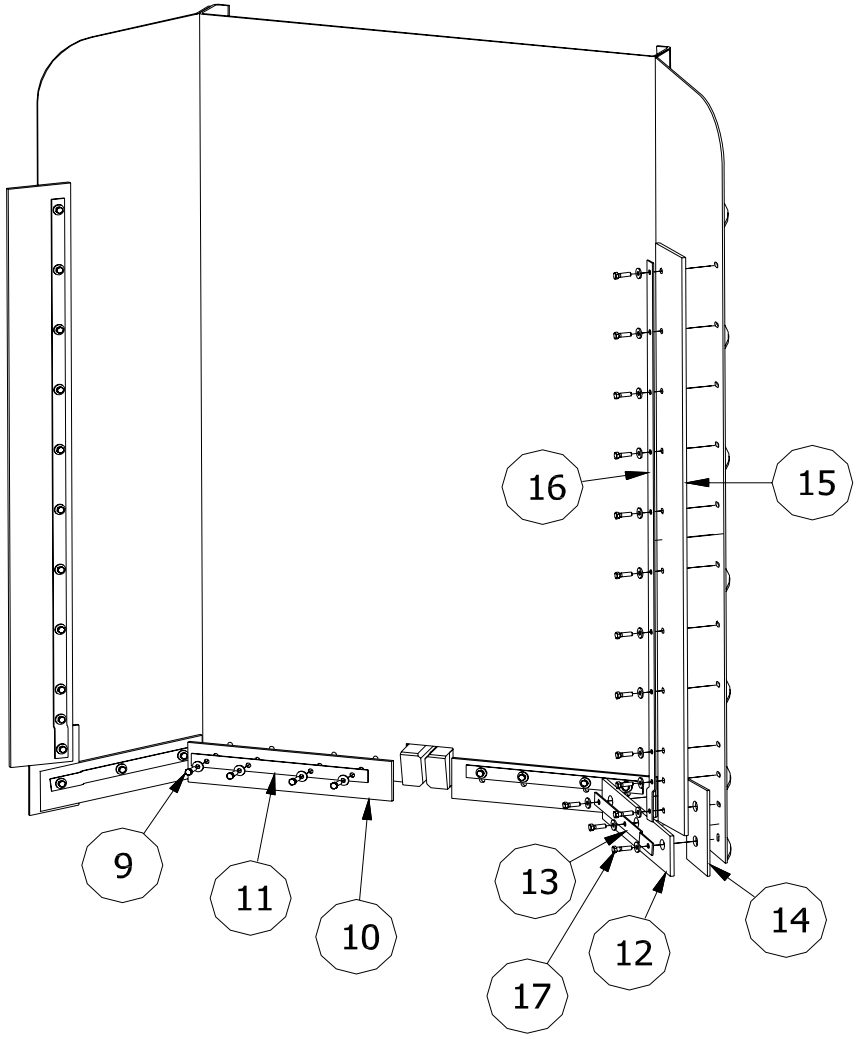


key	Qty	Description	Part Number
1	2	Rubber Seal	78761
2	6	SPECIAL WASHER	1399-1030
3	2	Rubber Seal	78762
4	6	SPECIAL WASHER	1399-1030
5	2	Rubber Seal	78760
6	12	SPECIAL WASHER	1399-1030
7	2	Rubber Seal	78764
8	10	SPECIAL WASHER	1399-1030
9	AR	Bolts	3/8 x 1 1/4, Special Washer, USS Washer, Locknut
10	2	Rubber Seal	78023
11	8	SPECIAL WASHER	1399-1030
12	2	Rubber Seal	78022
13	6	SPECIAL WASHER	1399-1030
14	2	Rubber Seal (Corner)	78250
15	2	Rubber Seal	78028
16	22	SPECIAL WASHER	1399-1030
17	AR	Bolts	3/8 x 1 1/2, Special Washer - 79344, SAE washer, Locknut
		Seal kit 3440 push-gate, First Generation, Includes keys 10 to 17	20073
		Seal kit 3440 push-gate, Second Generation, Includes keys 1 to 9	20074
		Seal and Leveler update kit, Includes keys 10 to 17, and leveling device	20076

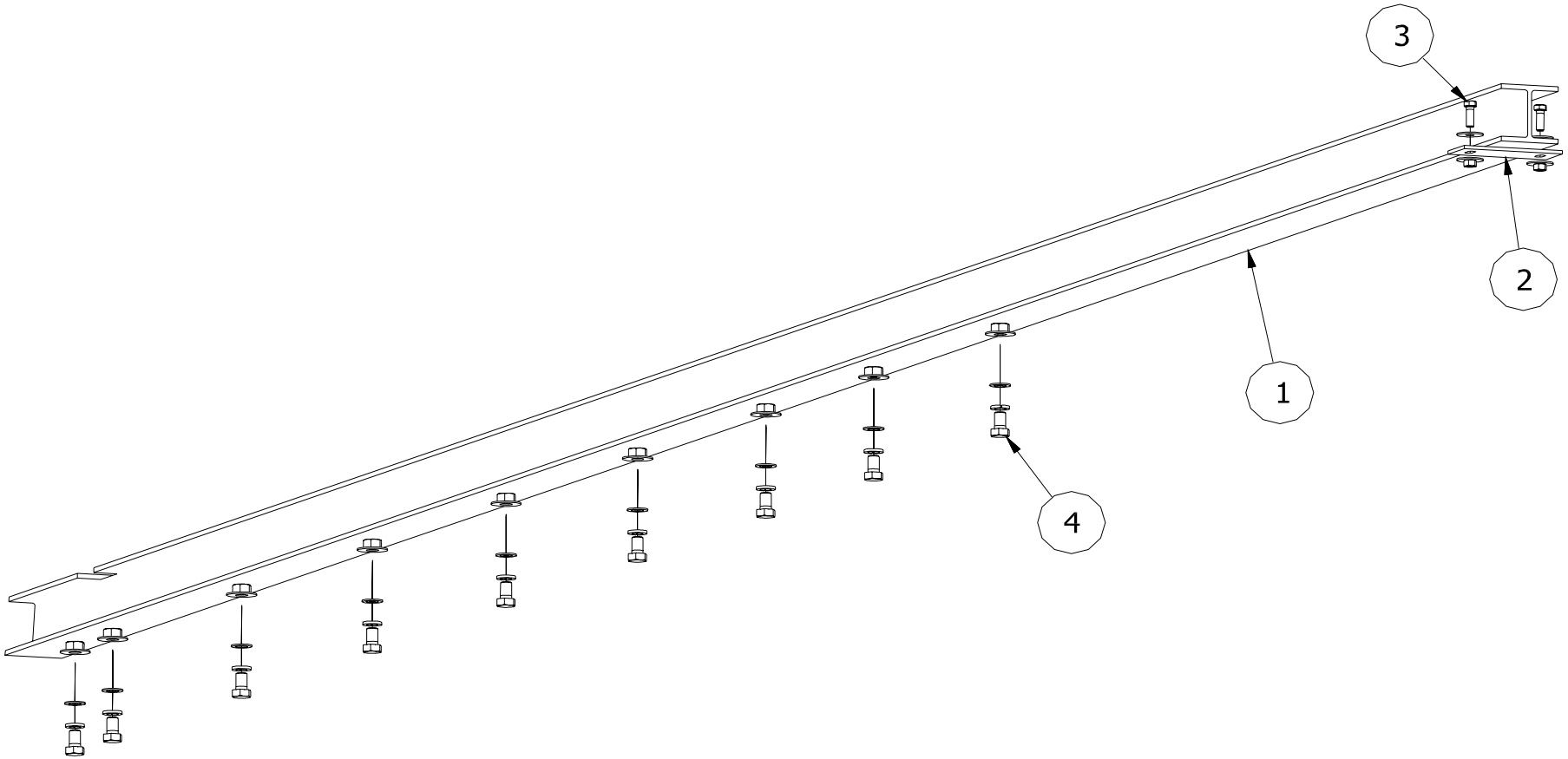
Second Generation Push-Gate



First Generation Push-Gate



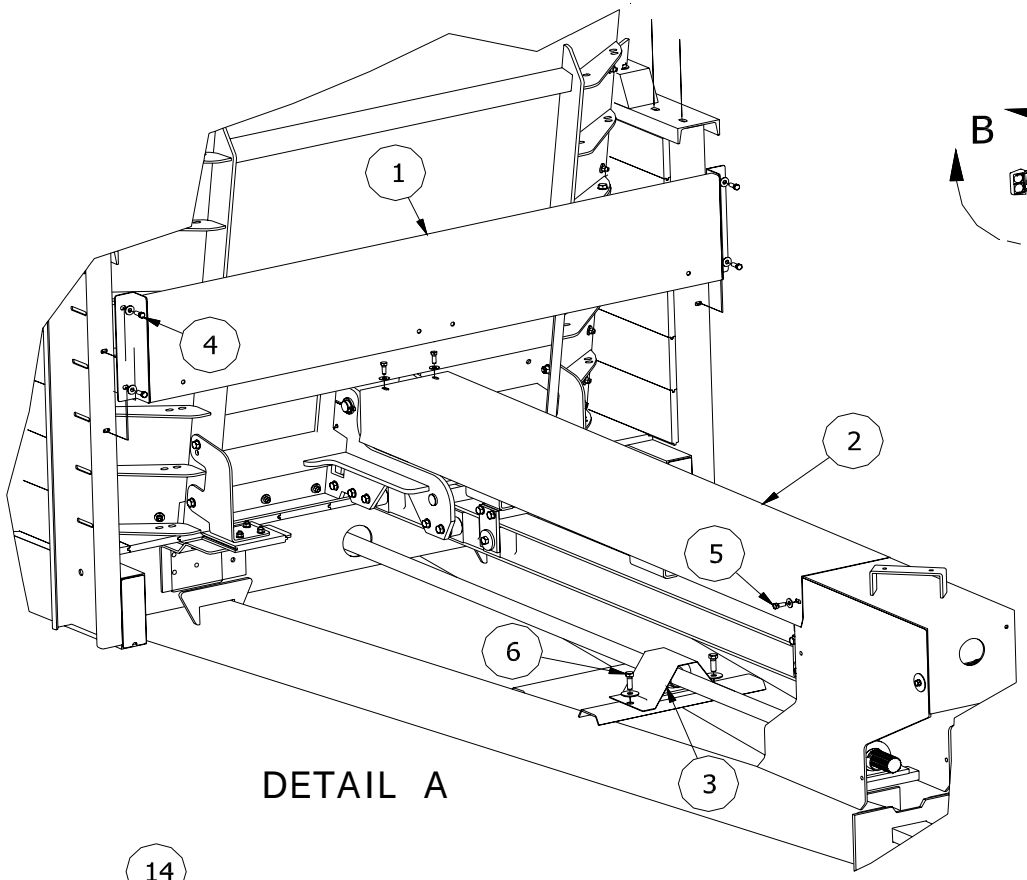
key	Qty	Description		Part Number
1	1	Beam for slide rail		N/A
2	1	Mounting plate for slide rail		70590
3	AR	Bolts	1/2 x 1 1/2 (2), USS Washer (4), Locknut (2)	
4	AR	Bolts	3/4 x 1 1/4 (16), SAE Washer (16), Lockwasher (16), USS Washer (16)	



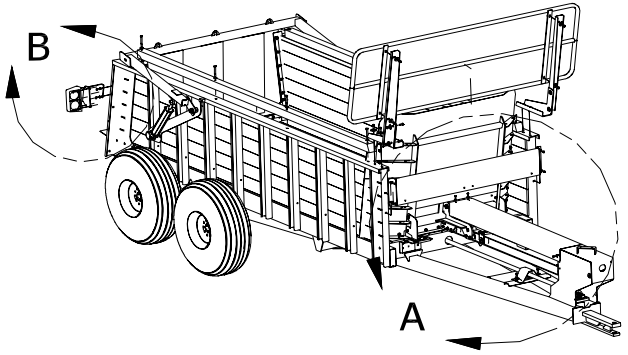
Note: 3290 Slide Rail Shown

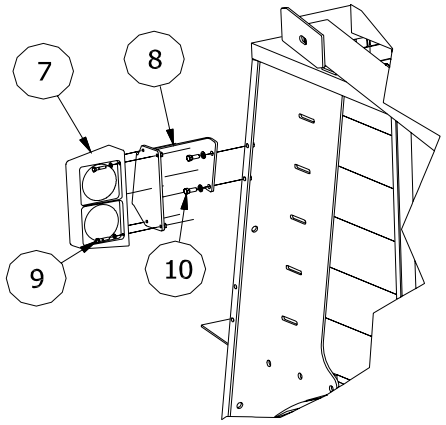
Shields, SMV sign, jack, and light	9.1
Stone Guard	9.3

key	Qty	Description	Part Number
1	1	Front Panel	20167
2	1	Cylinder Cover	70430
3	1	Bearing Cover at A-Frame	70306
4	AR	Bolts	3/8 x 1 (4), USS Washer (8), Locknut (4)
5	AR	Bolts	3/8 x 1 (4), USS Washer (8), Locknut (4)
6	AR	Bolts	1/2 x 1 1/2 (2), USS Washer (4), Locknut (2)
7	opt	Light Kit (left side light not shown), Includes keys 8, 9, 10	88001
8	opt	Mounting brackets for lights (Right)	70433R
8	opt	Mounting brackets for lights (Left, Not Shown)	70433L
9	AR	Bolts	1/4 x 1 1/4 (8), SAE Washer (16), Locknut (8)
10	AR	Bolts	3/8 x 1 1/4 (4), SAE Washer (8), Locknut (4)
11	1	Slow moving vehicle sign assembly, Includes keys 12, 13 and all hardware	88002
12	1	Mounting bracket for slow moving vehicle sign	70278
13	AR	Bolts	3/8 x 1 1/4 (2), SAE Washer (4), Locknut (2)
14	1	Jack	79840

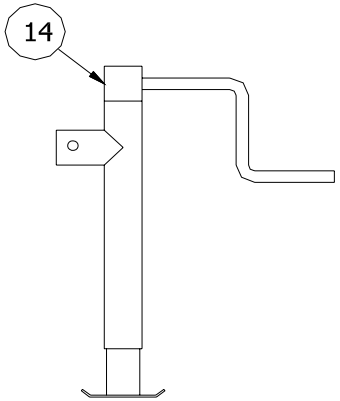


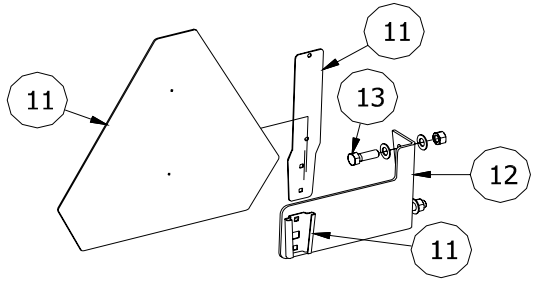
DETAIL A





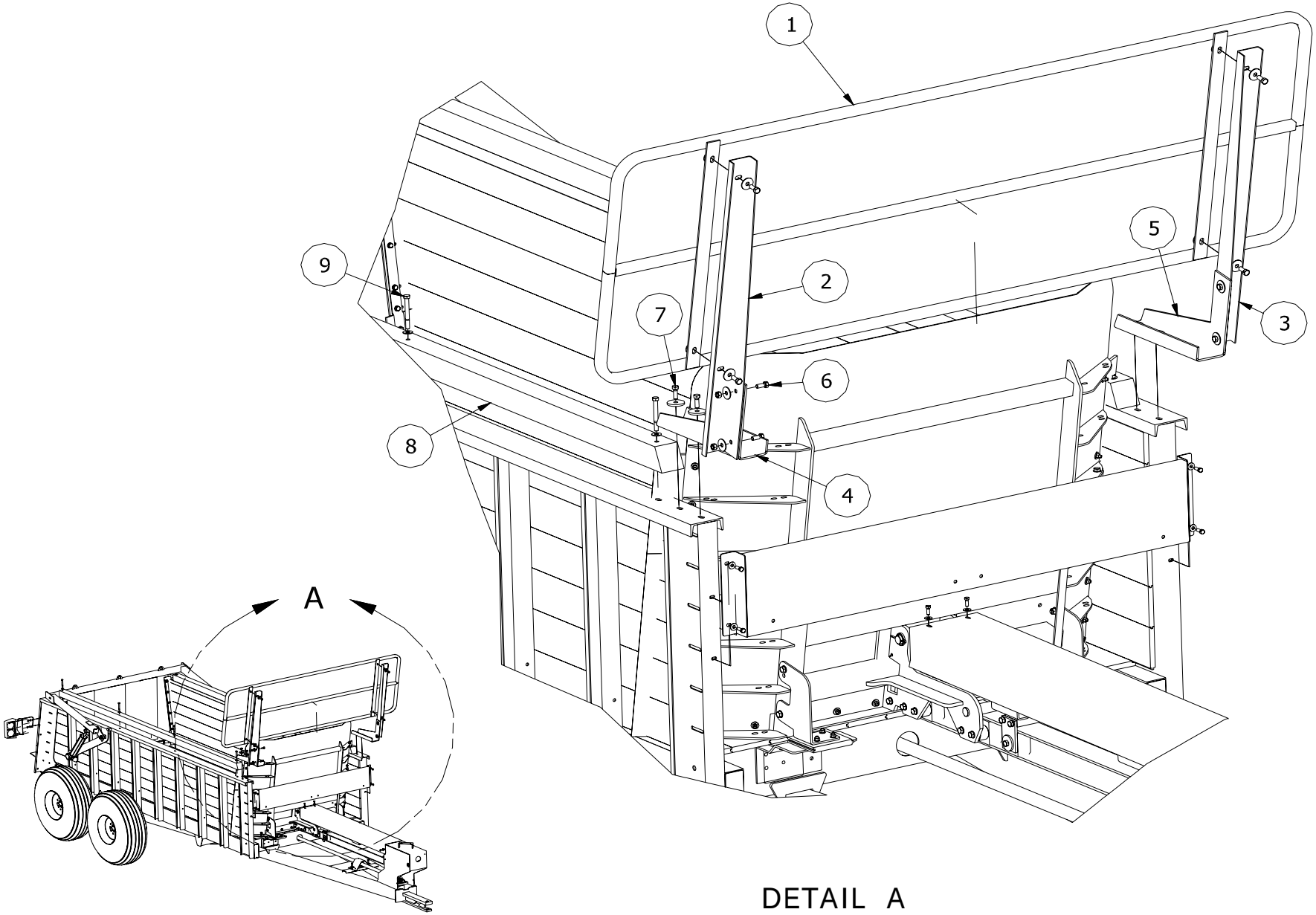
DETAIL B





SMV SIGN AND MOUNTING

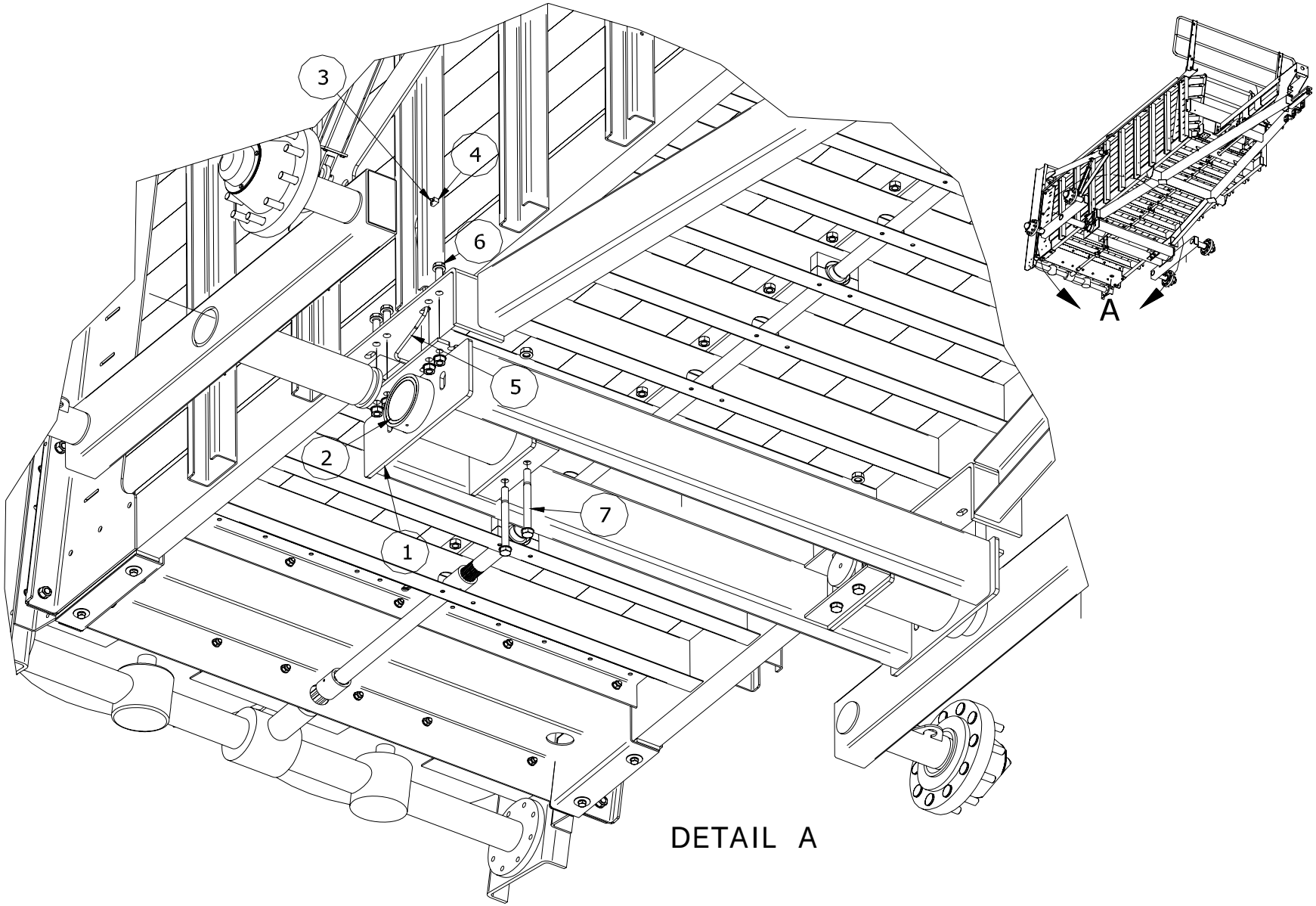
key	Qty	Description	Part Number
1	1	Stone Guard	20165
2	1	Upright for Stone Guard, Right	70439R
3	1	Upright for Stone Guard, Left	70439L
4	1	Mount for Stone Guard, Right	70435R
5	1	Mount for Stone Guard, Left	70435L
6	AR	Bolts	1/2 x 1 1/2 (8), USS Washer (16), Locknut (8)
7	AR	Bolts	1/2 x 1 1/2 (4), Special Washer - 79029 (4), USS Washer (4), Locknut (4)
8	2	Wood Rail	SOURCE
9	AR	Bolts	1/2 x 6 1/2 (8), USS Washer (16), Locknut (8)



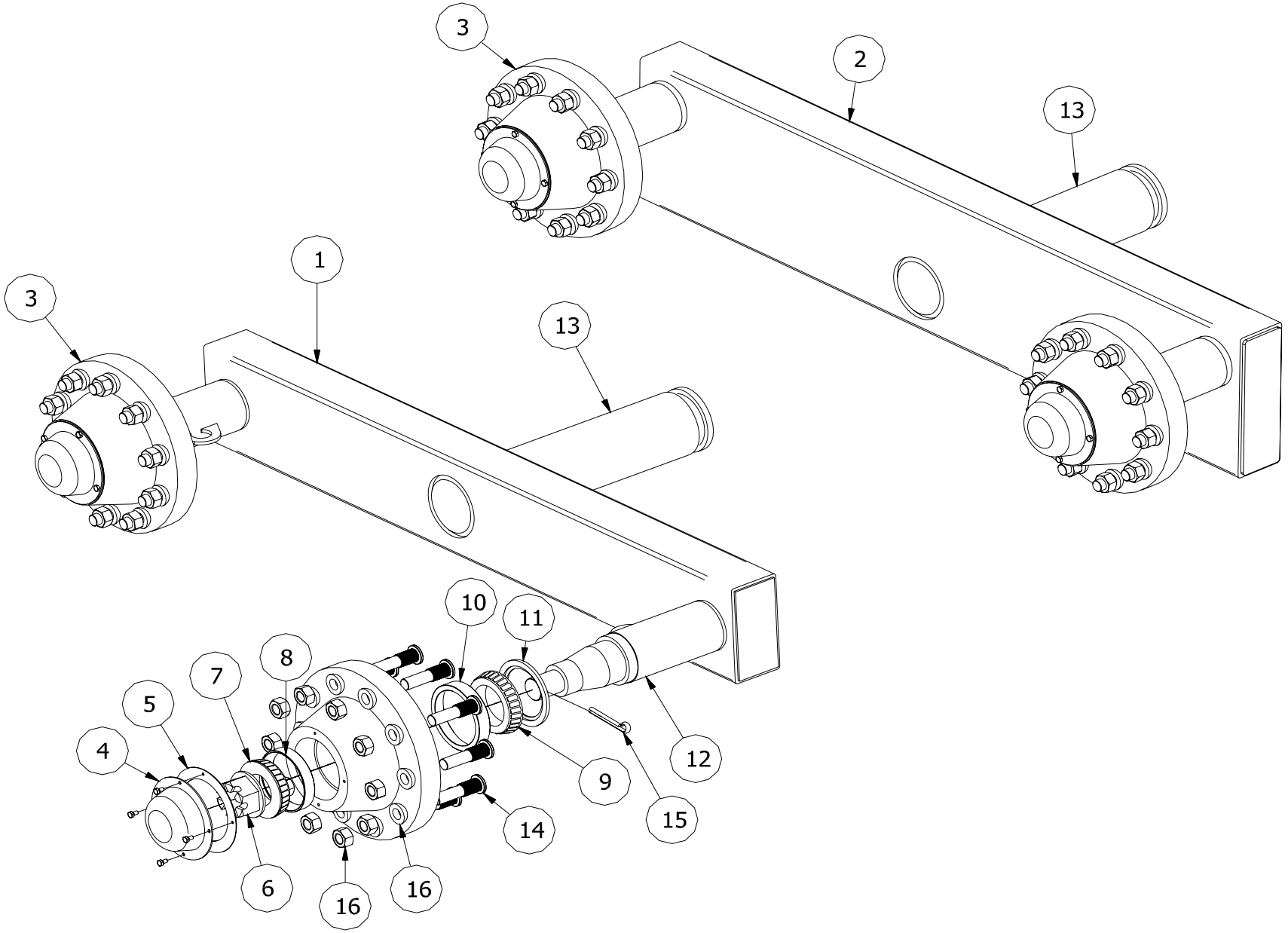
DETAIL A

Axles	10.1
Spindles and Hubs	10.3
Wheels	10.5

key	Qty	Description		Part Number
1	1	Axle Frame		20064
2	4	Tandem Bushing		1399-1016
3	2	L-Fitting for grease hose		77510
4	2	Grease Fitting		79810
5	2	Grease Hose		77321
6	AR	Bolts	3/4 x 2 1/2 (8), SAE Washer (16), Locknut (8)	
7	AR	Bolts	3/4 x 9 (4), SAE Washer (8), Locknut (4)	


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DETAIL A

key	Qty	Description	Part Number
1	2	Tandem Axle (Standard)	20068
2	Opt	Tandem Axle, 6" Drop, (Right)	20069R
		Tandem Axle, 6" Drop, (Left)	20069L
		Tandem Axle, 6" Drop, Long Spindle, (Right)	20070R
		Tandem Axle, 6" Drop, Long Spindle, (Left)	20070L
3	4	Complete Hub (Bearings, Seals, Bolts, Cap)	429005
4	4	Dust cap	422139
5	4	Gasket	422140TMR
6	4	Spindle nut	500130
7	4	Outer Bearing Cone	422142TMR
8	4	Outer Bearing Cup	422143TMR
9	4	Inner Bearing Cone	422145TMR
10	4	Inner Bearing Cup	422144TMR
11	4	Seal	422146
12	4	16K Spindle	72200
	opt	16k Spindle, Long	72019
13	2	Tandem Spindle	72190
14	AR	Press-in Wheel bolts	72210.7
15	4	Cotter Pin 5/16 X 3 1/2	5/16 x 3 1/2
16	20	Wheel Nuts and Spherical Washers	72210.8
		Wheel Bearing Kit, Includes keys 7 to 11, and 16	82100


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Please Contact Hydra-Spread About Wheel and Tire Packages and for Replacments.