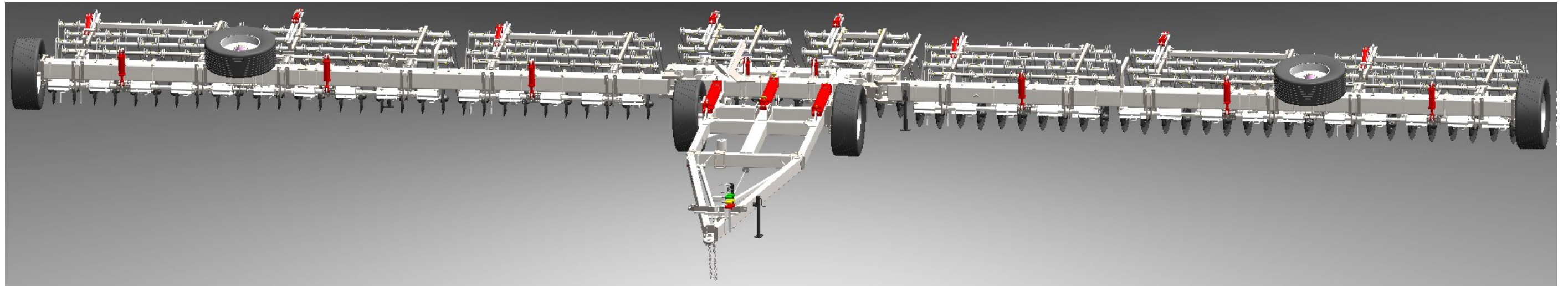




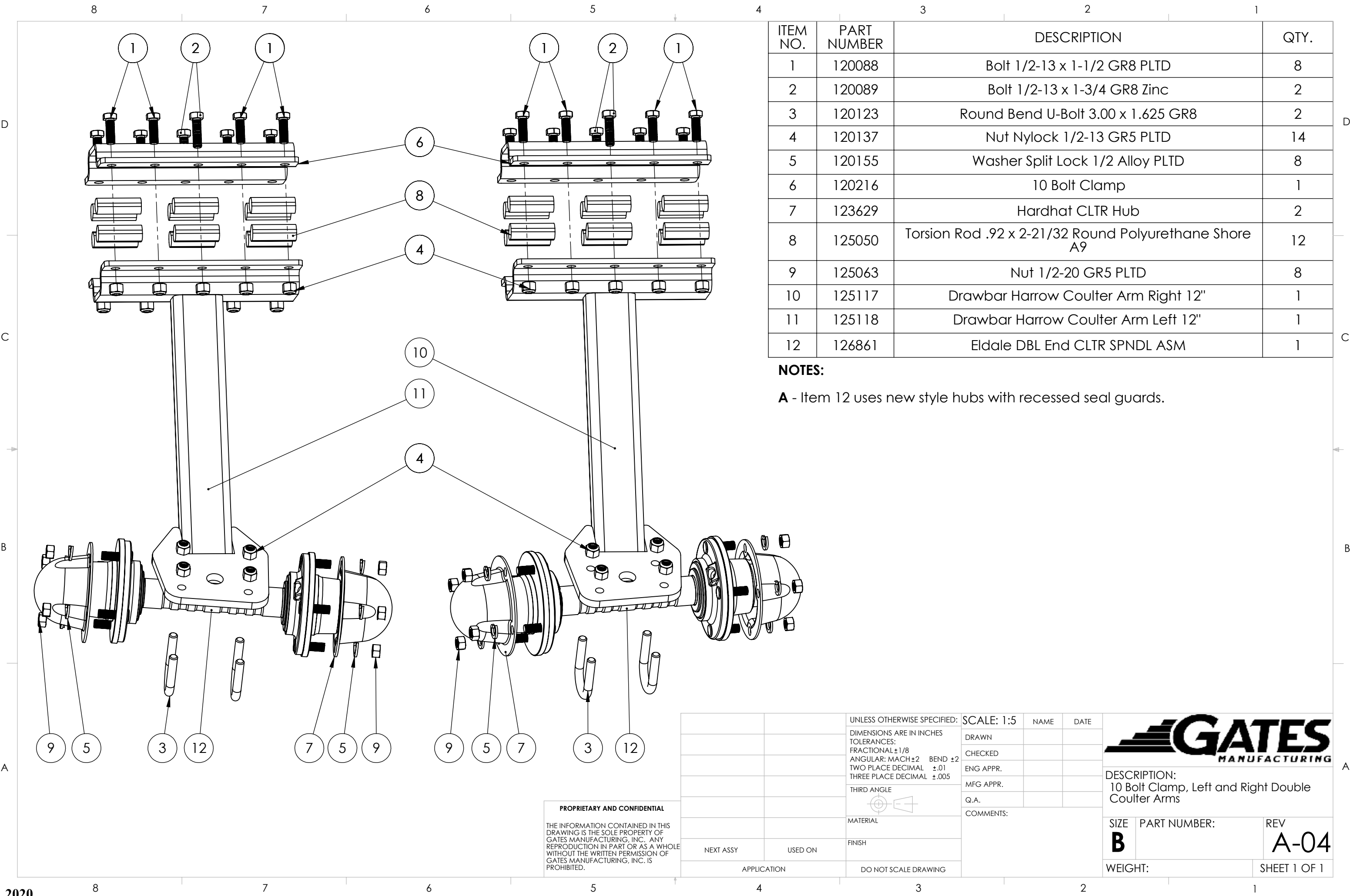
Rear Fold Coulter Harrow



Parts Book

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ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	120088	Bolt 1/2-13 x 1-1/2 GR8 PLTD	8
2	120089	Bolt 1/2-13 x 1-3/4 GR8 Zinc	2
3	120123	Round Bend U-Bolt 3.00 x 1.625 GR8	2
4	120137	Nut Nylock 1/2-13 GR5 PLTD	14
5	120155	Washer Split Lock 1/2 Alloy PLTD	8
6	120216	10 Bolt Clamp	1
7	123629	Hardhat CLTR Hub	2
8	125050	Torsion Rod .92 x 2-21/32 Round Polyurethane Shore A9	12
9	125063	Nut 1/2-20 GR5 PLTD	8
10	125117	Drawbar Harrow Coulter Arm Right 12"	1
11	125118	Drawbar Harrow Coulter Arm Left 12"	1
12	126861	Eldale DBL End CLTR SPNDL ASM	1

NOTES:

A - Item 12 uses new style hubs with recessed seal guards.

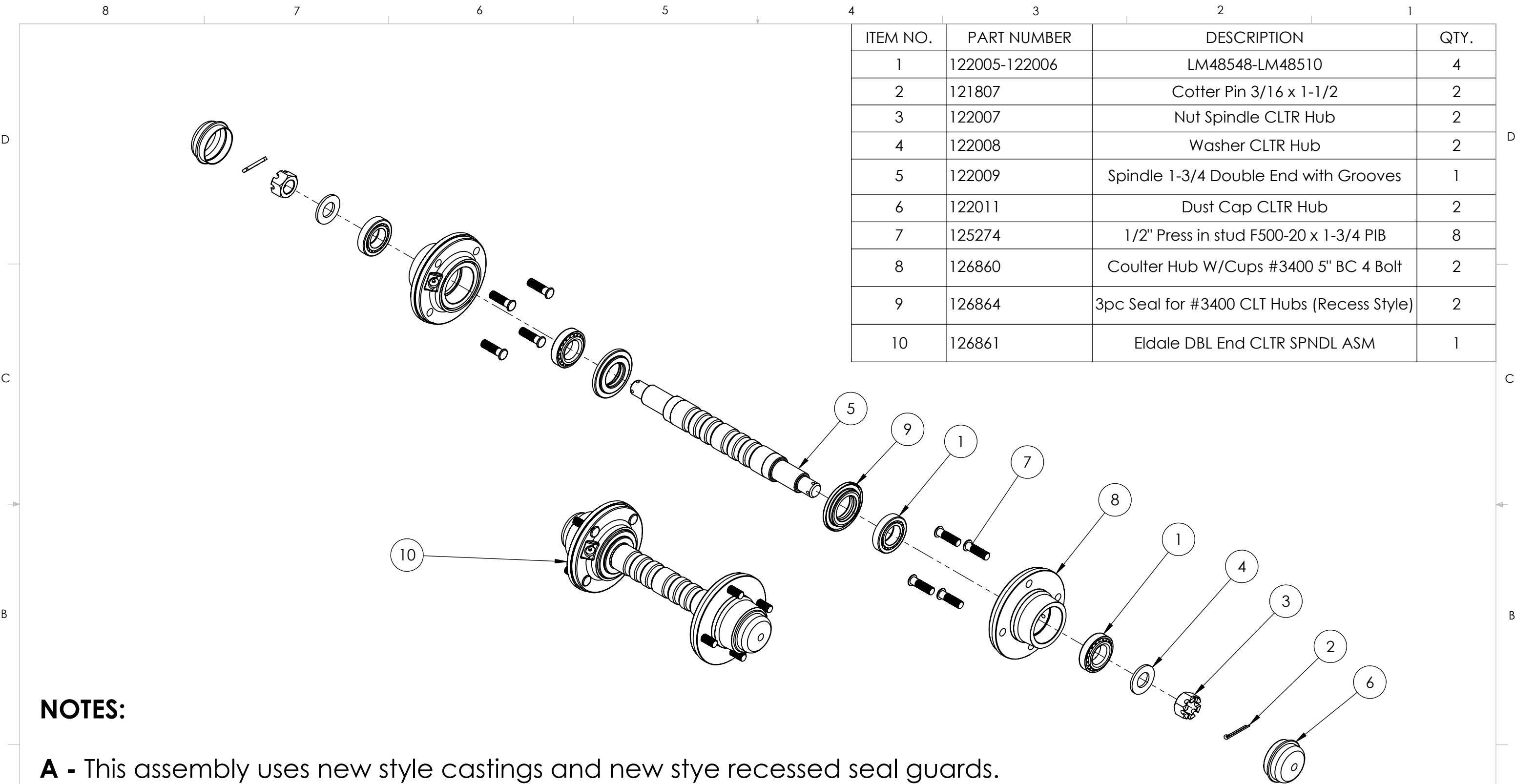
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UNLESS OTHERWISE SPECIFIED:		SCALE: 1:5	NAME	DATE
DIMENSIONS ARE IN INCHES		DRAWN		
TOLERANCES:		CHECKED		
FRACTIONAL ±1/8		ENG APPR.		
ANGULAR: MACH ±2 BEND ±2		MFG APPR.		
TWO PLACE DECIMAL ±.01		Q.A.		
THREE PLACE DECIMAL ±.005		COMMENTS:		
THIRD ANGLE				
MATERIAL				
FINISH				
NEXT ASSY	USED ON			
APPLICATION		DO NOT SCALE DRAWING		

DESCRIPTION:
10 Bolt Clamp, Left and Right Double Coulter Arms

SIZE	PART NUMBER:	REV
B		A-04
WEIGHT:		SHEET 1 OF 1



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	122005-122006	LM48548-LM48510	4
2	121807	Cotter Pin 3/16 x 1-1/2	2
3	122007	Nut Spindle CLTR Hub	2
4	122008	Washer CLTR Hub	2
5	122009	Spindle 1-3/4 Double End with Grooves	1
6	122011	Dust Cap CLTR Hub	2
7	125274	1/2" Press in stud F500-20 x 1-3/4 PIB	8
8	126860	Coulter Hub W/Cups #3400 5" BC 4 Bolt	2
9	126864	3pc Seal for #3400 CLT Hubs (Recess Style)	2
10	126861	Eldale DBL End CLTR SPNDL ASM	1

NOTES:

A - This assembly uses new style castings and new stye recessed seal guards.

B - This is a replacement assembly for 121453.
Verify hub style before ordering parts.

PROPRIETARY AND CONFIDENTIAL

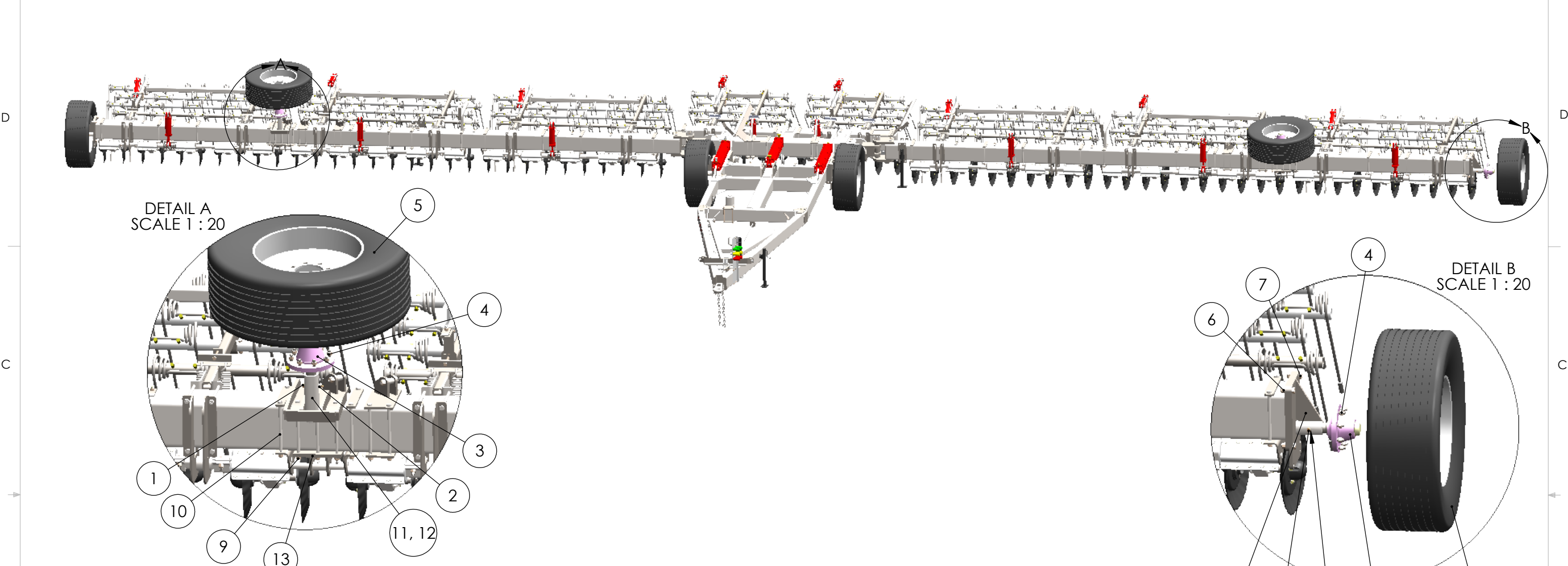
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		UNLESS OTHERWISE SPECIFIED:		SCALE: 1:6	NAME	DATE
		DIMENSIONS ARE IN INCHES		DRAWN	Scott	7/23/2013
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		THREE PLACE DECIMAL ±.005		COMMENTS:		
		THIRD ANGLE				
		MATERIAL				
		FINISH				
NEXT ASSY	USED ON					
APPLICATION		DO NOT SCALE DRAWING				

DESCRIPTION:
ELDALE DBL END CLTR SPNDL ASM

SIZE	PART NUMBER:	REV
B	126861	A-14

WEIGHT: 26.481 SHEET 1 OF 1



All Wheels (Qty. 6)

ITEM NO	PART NUMBER	DESCRIPTION	QTY per Wheel ASM
1	120095	Bolt 1/2-13 x 4 GR5 PLTD	1
2	120137	Nut Nylock 1/2-13 GR5 PLTD	1
3	120309	Hub Spindle Asm #8000 8-Bolt w/paint	1
4	126705	Lug Nut / Flange Nut 5/8-18	8
5	124539	Wheel Asm 385/65R225 Truck Tire 8 Hole	1

Wing and Cart Wheels (Qty. 4)

6	120140	Nut Nylock 3/4-10 GR5 PLTD	4
7	125269	Bolt 3/4-10 x 2-1/2 GR8 PLTD	4
8	126012	Stub Axle Plate Coulter Harrow 2-1/4 Spindle	1

Transport Wheels (One Right, One Left)

9	120138	Nut Nylock 5/8-11 GR5 PLTD	6
10	121137	Bolt 5/8-11 x 13 GR5 PLTD	6
11	125208*	10" Transport Plate Right Heavy	1
12	125209*	10" Transport Plate Left Heavy	1
13	125800	10" Transport Backing Plate	1

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*For an 84', use part numbers 126230 (right) and 126231 (left).

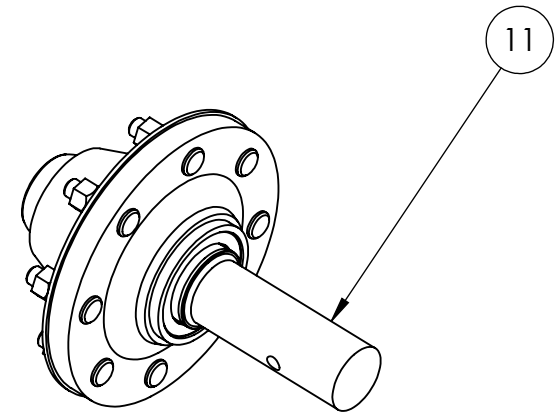
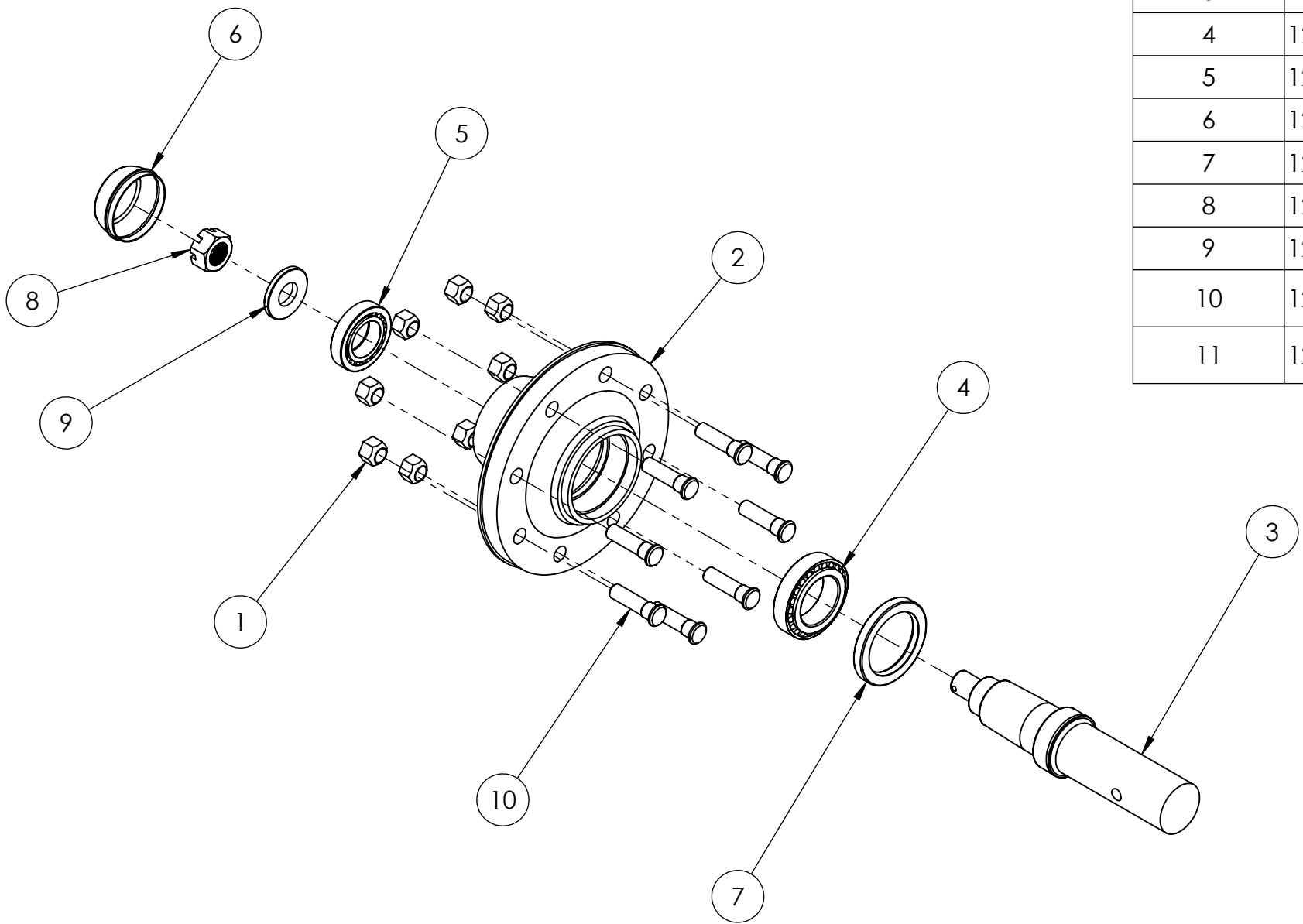
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		THREE PLACE DECIMAL ±.005		COMMENTS:		
		THIRD ANGLE				
		MATERIAL				
		FINISH				
NEXT ASSY	USED ON					
APPLICATION		DO NOT SCALE DRAWING				

DESCRIPTION:
Rear Fold Coulter Harrow Wheels

SIZE	PART NUMBER:	REV
B	See Table	
WEIGHT: 24059.76		SHEET 1 OF 1

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ITEM NO.	PART NUMBER	DESCRIPTION	half/QTY.
1	121793	LUG NUT 5/8-18	8
2	121996	WHEEL HUB 8000	1
3	121997	SPINDLE, 8000 WHEEL HUB	1
4	121998	INNER BEARING 8000 HUB	1
5	121999	OUTER BEARING 8000 HUB	1
6	122000	DUSTCAP, 8000 HUB	1
7	122001	GREASE SEAL 8000 HUB	1
8	122003	NUT 1-14 UNF SF114	1
9	122004	WASHER, SPINDLE 8000	1
10	123924	WHEEL STUD 5/8-18 x 2.25 8000 HUB	8
11	120309	Hub ASM Eldale 8000 Wheel	1

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		UNLESS OTHERWISE SPECIFIED:	SCALE: 1:6	NAME	DATE
		DIMENSIONS ARE IN INCHES	DRAWN		
		TOLERANCES:	CHECKED		
		FRACTIONAL $\pm 1/8$	ENG APPR.		
		ANGULAR: MACH ± 2 BEND ± 2	MFG APPR.		
		TWO PLACE DECIMAL $\pm .01$	Q.A.		
		THREE PLACE DECIMAL $\pm .005$	COMMENTS:		
		THIRD ANGLE			
		MATERIAL			
		FINISH			
NEXT ASSY	USED ON				
APPLICATION		DO NOT SCALE DRAWING			

DESCRIPTION:
HUB ASM ELDALE 8000 WHEEL

SIZE	PART NUMBER:	REV
B	120309	

WEIGHT: 48.58	SHEET 1 OF 1
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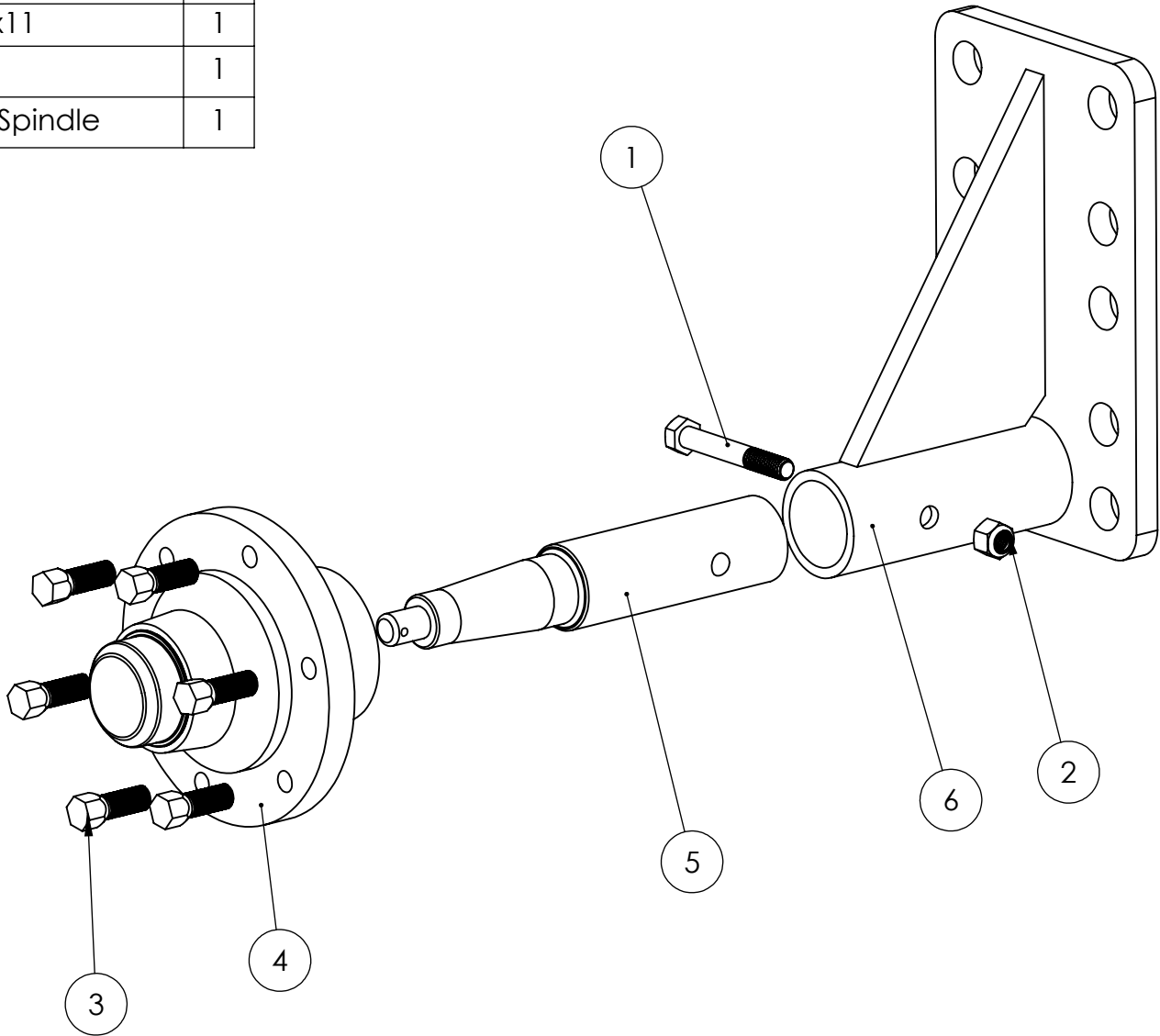
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	120093	Bolt 1/2-13 x 3-1/2 GR5	1
2	120137	Nut Nylock 1/2-13 GR5 PLTD	1
3	120264	Lug Bolt 9/16-18x1-1/4	6
4	120273	Hub Assembly #3500 w/Bearings Seal Dust Caps 6-bolt	1
5	120275	Spindle Assy #3500 w/Washer Nut 2x11	1
6	122151	Stub Axle Plate for 2" Spindle	1
7	123403	Assy Stub Axle Plate with 6 Bolt Hub and Spindle	1

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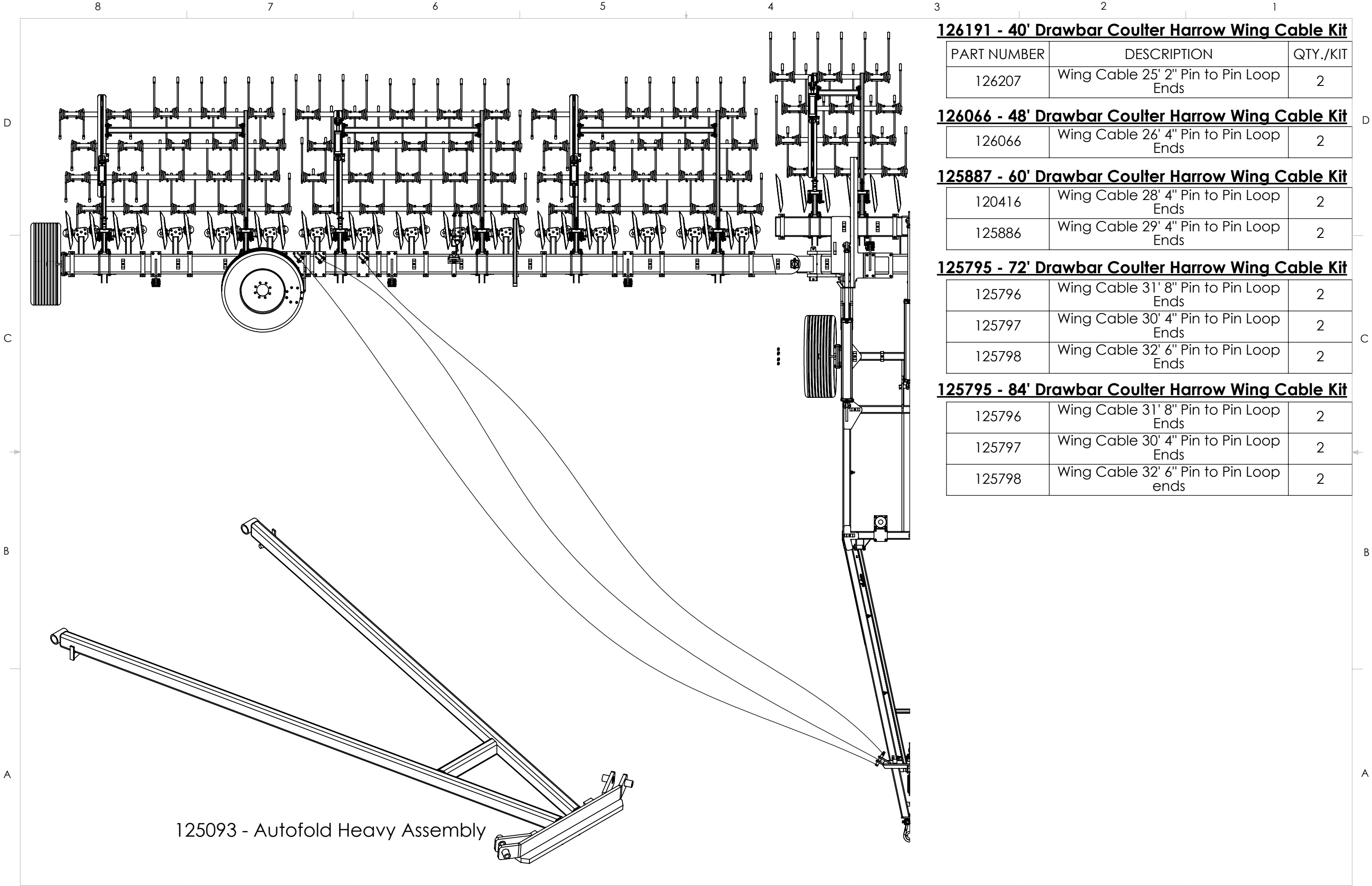
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		UNLESS OTHERWISE SPECIFIED:	SCALE: 1:4	NAME	DATE			
		DIMENSIONS ARE IN INCHES	DRAWN	Britta	1-15-2015			
		TOLERANCES:	CHECKED					
		FRACTIONAL ± 1/8	ENG APPR.					
		ANGULAR: MACH ±2 BEND ±2	MFG APPR.					
		TWO PLACE DECIMAL ±.01	Q.A.			DESCRIPTION: Assy Stub Axle Plate with 6 Bolt Hub and Spindle		
		THREE PLACE DECIMAL ±.005	COMMENTS:					
		THIRD ANGLE						
								
		MATERIAL				SIZE	PART NUMBER:	REV
		FINISH				B	123403	
NEXT ASSY	USED ON					WEIGHT: 21.54		SHEET 1 OF 1
APPLICATION		DO NOT SCALE DRAWING						



126191 - 40' Drawbar Coulter Harrow Wing Cable Kit

PART NUMBER	DESCRIPTION	QTY./KIT
126207	Wing Cable 25' 2" Pin to Pin Loop Ends	2

126066 - 48' Drawbar Coulter Harrow Wing Cable Kit

126066	Wing Cable 26' 4" Pin to Pin Loop Ends	2
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125887 - 60' Drawbar Coulter Harrow Wing Cable Kit

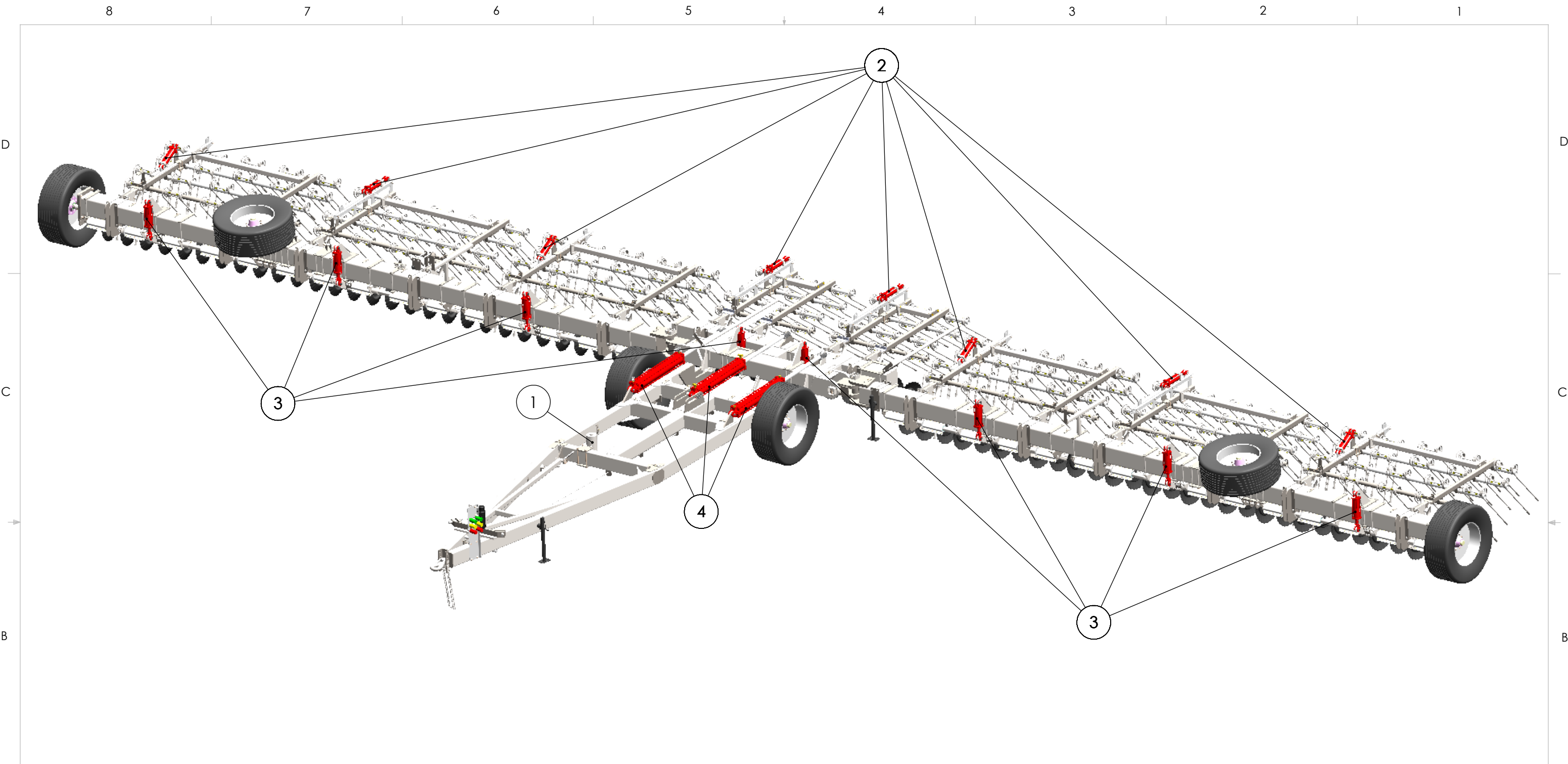
120416	Wing Cable 28' 4" Pin to Pin Loop Ends	2
125886	Wing Cable 29' 4" Pin to Pin Loop Ends	2

125795 - 72' Drawbar Coulter Harrow Wing Cable Kit

125796	Wing Cable 31' 8" Pin to Pin Loop Ends	2
125797	Wing Cable 30' 4" Pin to Pin Loop Ends	2
125798	Wing Cable 32' 6" Pin to Pin Loop Ends	2

125795 - 84' Drawbar Coulter Harrow Wing Cable Kit

125796	Wing Cable 31' 8" Pin to Pin Loop Ends	2
125797	Wing Cable 30' 4" Pin to Pin Loop Ends	2
125798	Wing Cable 32' 6" Pin to Pin Loop ends	2



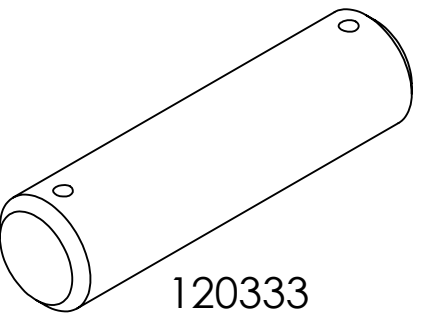
ITEM NO	PART NUMBER	BORE	STROKE	BRAND	SEAL KIT	QTY.
1	120171	Double Rephasing Cylinder		Prince	-	1
2	120174	3"	6"	Monarch	120178	8
3	120186	3"	8"	Monarch	120178	8
4	121849	5"	36"	Prince	124023	3

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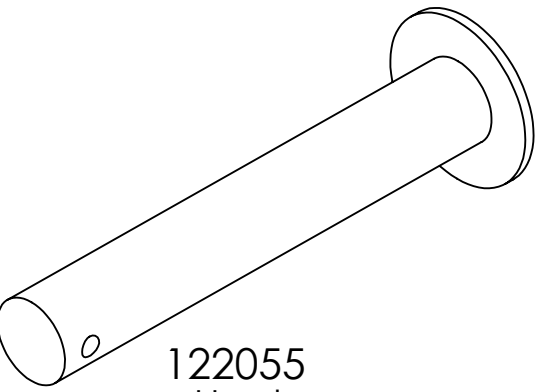
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			DRAWN	Britta	12/2/2015	
			CHECKED			
			ENG APPR.			
			MFG APPR.			
			Q.A.			DESCRIPTION: 72' Drawbar Coulter Harrow Cylinders
		COMMENTS:				
		MATERIAL				
		FINISH				
NEXT ASSY	USED ON					
APPLICATION		DO NOT SCALE DRAWING	WEIGHT: 24059.76			
			SHEET 1 OF 1			
			PART NUMBER: B See Table			
			REV			

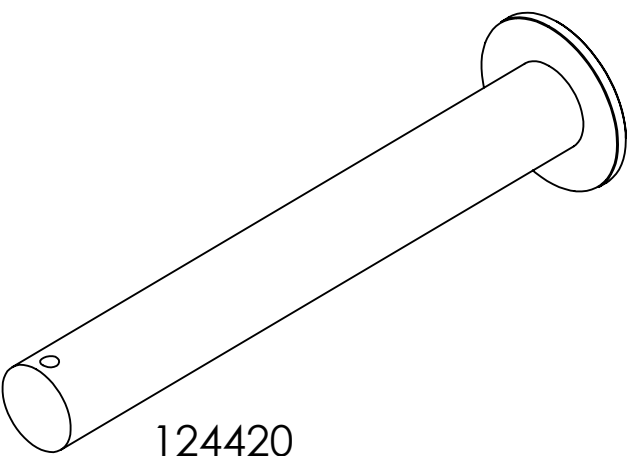
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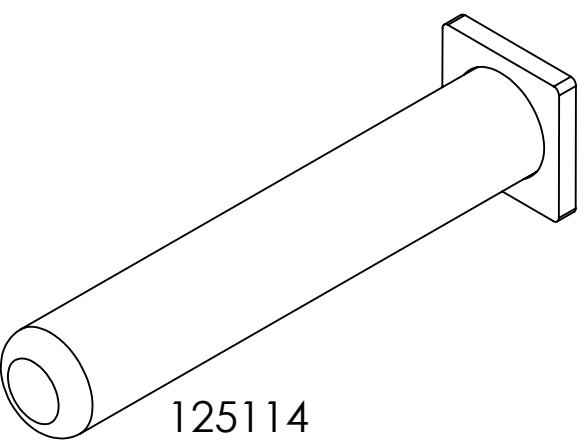
120333
Hardware:
121807 - Cotter Pin
3/16" x 1-1/2" PLTD - QTY 2



122055
Hardware:
120131 - Nut Nylock
1/4-20 GR5 PLTD - QTY 1
120154 - 1" Flat Washer - QTY 1
121015 - Bolt 1/4-20 x 1-1/2
GR5 PLTD - QTY 1

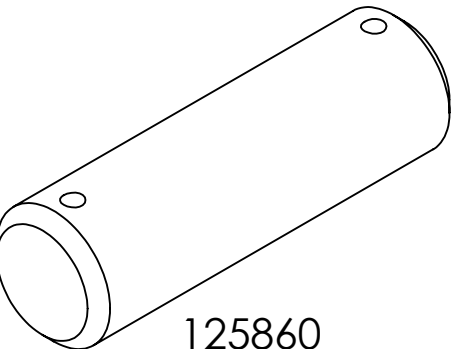


124420
Hardware:
120131 - Nut Nylock 1/4-20 GR5
PLTD - QTY 1
120162 - 1-1/4" Flat Washer - QTY 2
121017 - Bolt 1/4-20 x 2 GR5 PLTD - QTY 1
124564 - Spacer 1-1/4" ID x 1-5/8" - QTY 1
124565 - Spacer 1/1-4" ID x 1-3/8" - QTY 1

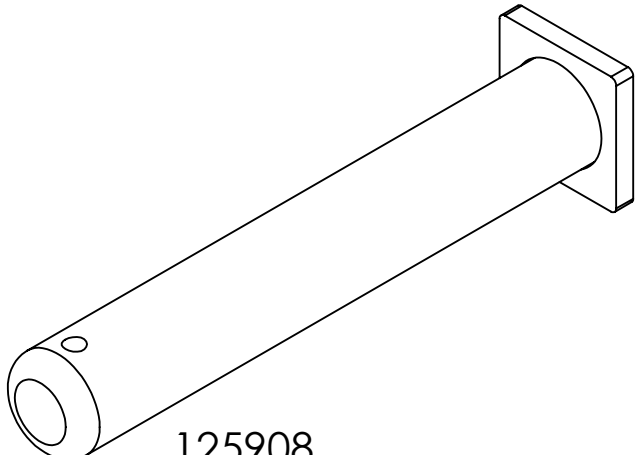


125114
Hardware:
120097 - Bolt 1/2-13 x 5
GR5 PLTD - QTY 1
120137 - Nut Nylock
1/2-13 GR5 - QTY 1

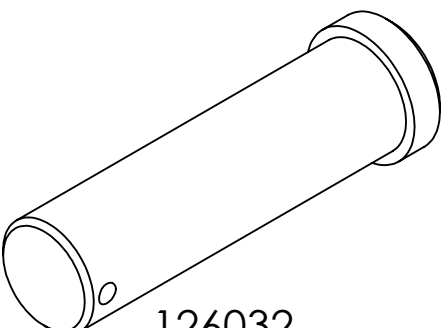
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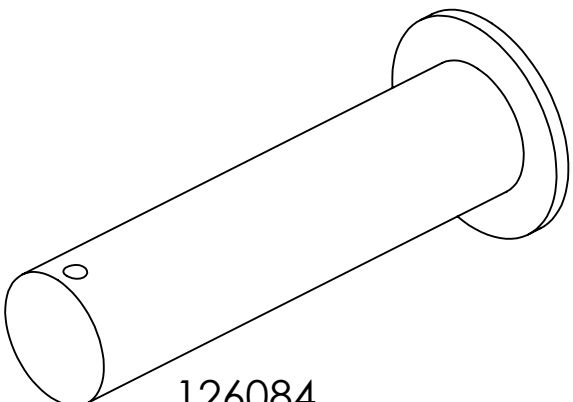
125860



125908
Hardware:
120093 - Bolt 1/2-13 x 3-1/2 GR5
PLTD - QTY 1
120097 - Bolt 1/2-13 x 5 GR5 PLTD - QTY 1
120137 - Nut Nylock 1/2-13 GR5 - QTY 2



126032
Hardware:
120131 - Nut Nylock 1/4-20GR5
PLTD - QTY 1
120154 - 1" Flat Washer - QTY 1
121015 - Bolt 1/4-20 x 1-1/2 GR5
PLTD - QTY 1



126084
Hardware:
120131 - Nut Nylock 1/4-20
GR5 PLTD - QTY 1
120152 - 1-1/2" Flat Washer
- QTY 1
121017 - Bolt 1/4-20 x 2 GR5
PLTD - QTY 1

B

B

Cylinder Pins

PART NUMBER	DESCRIPTION	QTY.
120333	1" x 3-3/4" Cylinder Pin	16
124420	1-1/4" x 9-1/2" Round Head Pin	1
125860	1-1/4" x 4" Cylinder Pin	5
126032	Clevis Pin 1" x 3-1/2" PLTD	16

Frame Pins

122055	1" x 6-1/4" Round Head Pin	3
125114	2-1/2" x 14" Square Head Pin	2
125908	2-1/2" x 15-1/2" Square Head Pin	2
126084	1-1/2" x 6" Round Head Pin	2

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		DIMENSIONS ARE IN INCHES	DRAWN	Britta	6/1/2015	
		TOLERANCES:	CHECKED			
		FRACTIONAL ±1/8	ENG APPR.			
		ANGULAR: MACH ±2 BEND ±2	MFG APPR.			
		TWO PLACE DECIMAL ±.01	Q.A.			
		THREE PLACE DECIMAL ±.005	COMMENTS:			
		THIRD ANGLE				
						
		MATERIAL				
		ASTM A36 Steel				
		FINISH				
NEXT ASSY	USED ON					
APPLICATION		DO NOT SCALE DRAWING				

SIZE	PART NUMBER:	REV
B	See Table	
WEIGHT: 0.816		SHEET 1 OF 1

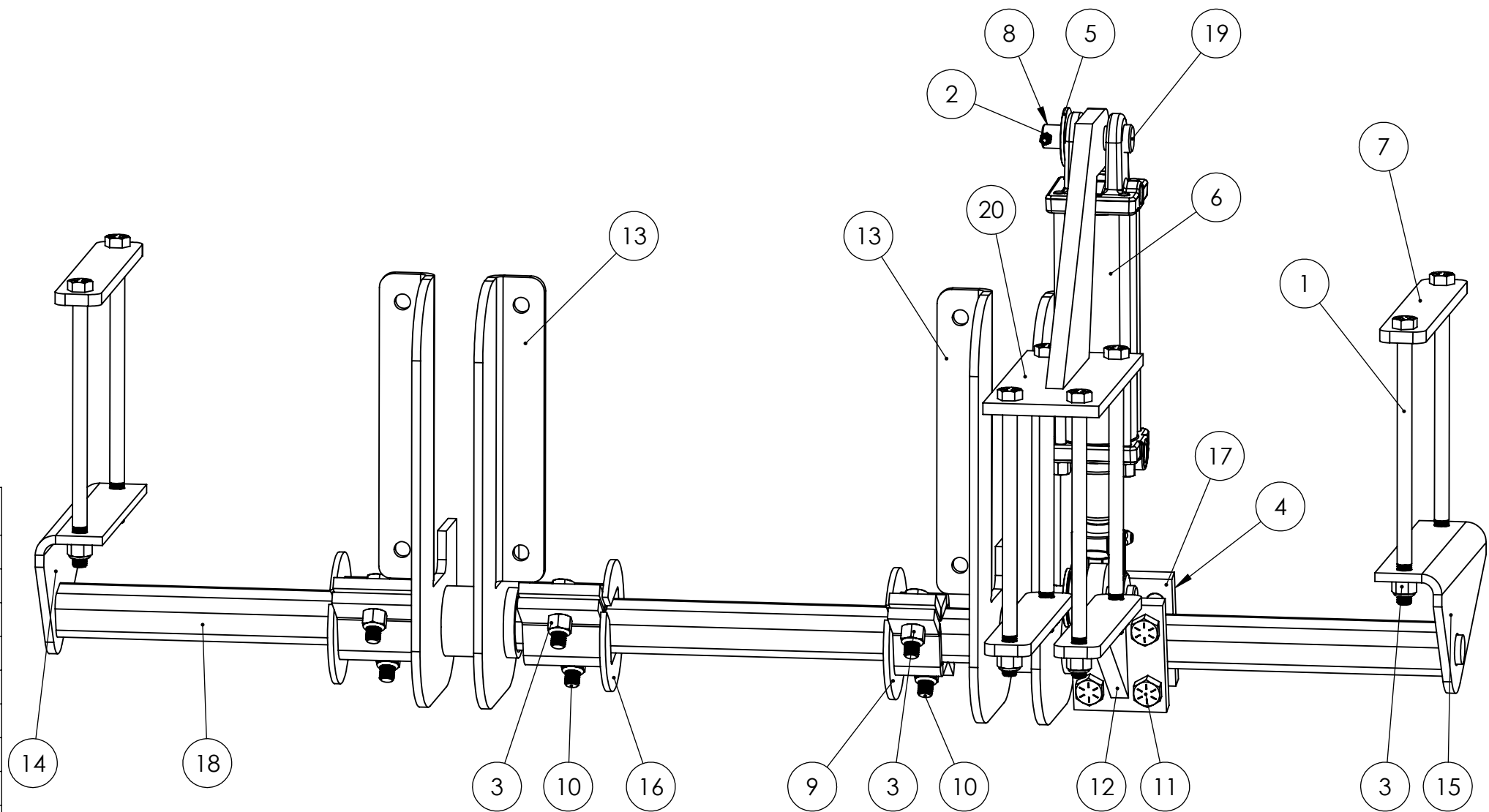
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ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	120109	Bolt 5/8-11 x 12 GR5 PLTD	8
2	120131	Nut Nylock 1/4-20 GR5 PLTD	2
3	120138	Nut Nylock 5/8-11 GR5 PLTD	14
4	120140	Nut Nylock 3/4-10 GR5 PLTD	4
5	120154	1" Flat Washer USS	2
6	120186	Cylinder 3 x 8 x 1-1/4 Tie Rod	1
7	120330	Backing Plate 10" Tube	2
8	121015	Bolt 1/4-20 x 1-1/2 GR5 PLTD	2
9	122523	Coulter Arm Stop	2
10	123867	Bolt 5/8-11 x 2-1/2 GR8 YZ PLTD	6
11	125053	Bolt 3/4-10 x 4-1/2 G8 YZ PLTD	4
12	125073	Coulter Harrow Rockshaft Cylinder Ear, 4 Hole, 3/4" Plate	1
13	125112	Backing Plate / Gang Hanger Bracket 10"	2
14	125119	Coulter Harrow Gang End Stop Right	1
15	125120	Coulter Harrow Gang End Stop Left	1
16	125202	Coulter Arm Stop 3-3/4" Wide	4
17	125262	Coutler Harrow Rockshaft Cylinder Ear Backing Plate 4 Hole	1
18	125770	6' Section Gang Tube, Wing Back Version	1
19	126032	Clevis Pin 1" x 3-1/2" PLTD	2
20	126204	CLTR Harrow Gang Cylinder frame Ear Narrow Right	1

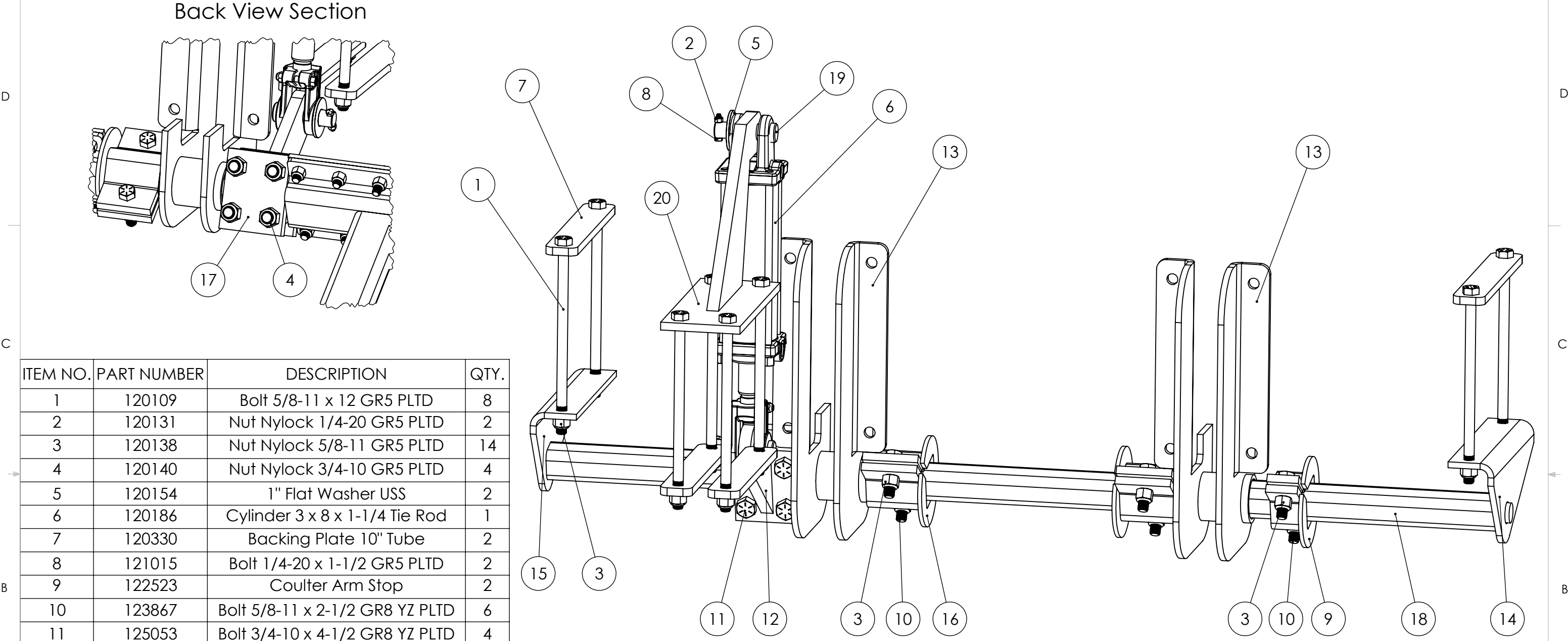


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ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	120109	Bolt 5/8-11 x 12 GR5 PLTD	8
2	120131	Nut Nylock 1/4-20 GR5 PLTD	2
3	120138	Nut Nylock 5/8-11 GR5 PLTD	14
4	120140	Nut Nylock 3/4-10 GR5 PLTD	4
5	120154	1" Flat Washer USS	2
6	120186	Cylinder 3 x 8 x 1-1/4 Tie Rod	1
7	120330	Backing Plate 10" Tube	2
8	121015	Bolt 1/4-20 x 1-1/2 GR5 PLTD	2
9	122523	Coulter Arm Stop	2
10	123867	Bolt 5/8-11 x 2-1/2 GR8 YZ PLTD	6
11	125053	Bolt 3/4-10 x 4-1/2 GR8 YZ PLTD	4
12	125073	Coulter Harrow Rockshaft Cylinder Ear, 4 Hole, 3/4" Plate	1
13	125112	Backing Plate / Gang Hanger Bracket 10"	2
14	125119	Coulter Harrow Gang End Stop Right	1
15	125120	Coulter Harrow Gang End Stop Left	1
16	125202	Coulter Arm Stop 3-3/4" Wide	4
17	125262	Coulter Harrow Rockshaft Cylinder Ear Backing Plate	1
18	125770	6' Section Gang Tube, Wing Back Version	1
19	126032	Clevis Pin 1" x 3-1/2" PLTD	2
20	126203	CLTR Harrow Gang Cylinder Frame Ear Narrow Left	1

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TOLERANCES:
FRACTIONAL ±1/8
ANGULAR: MACH±2 BEND ±2
TWO PLACE DECIMAL ±.01
THREE PLACE DECIMAL ±.005
THIRD ANGLE

MATERIAL
FINISH

SCALE: 1:1
DRAWN
CHECKED
ENG APPR.
MFG APPR.
Q.A.
COMMENTS:

NAME
DATE
3/23/2016


DESCRIPTION:
Coulter Harrow Gang 6' Left
Center, Wing Back Version
SIZE PART NUMBER: REV
B 125767
WEIGHT: 420.79 SHEET 1 OF 1

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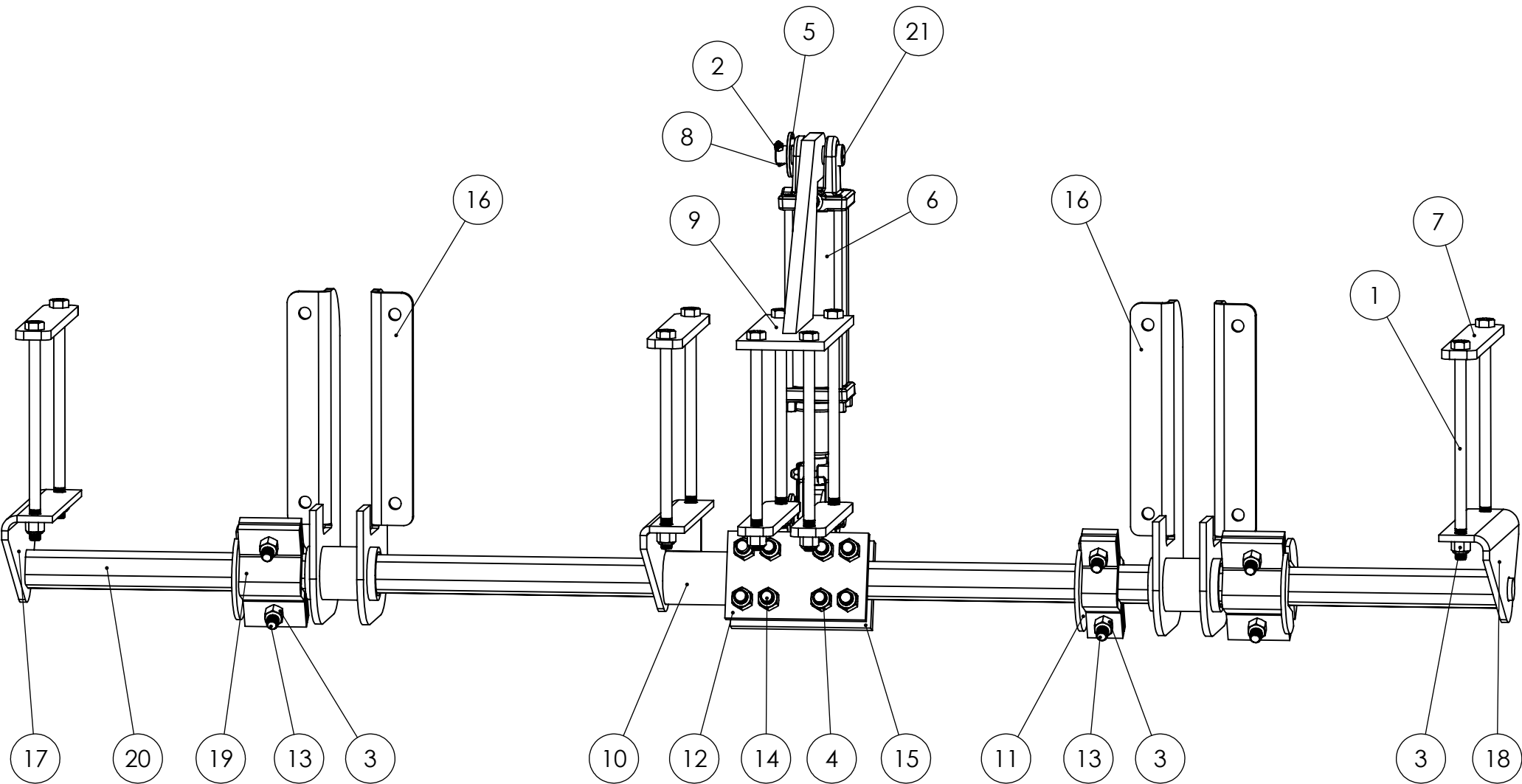
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*For LEFT gang, replace Item (10) with 122192 (Gang Hanger Bra cket Left)

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	120109	Bolt 5/8-11 x 12 GR5 PLTD	10
2	120131	Nut Nylock 1/4-20 GR5 PLTD	2
3	120138	Nut Nylock 5/8-11 GR5 PLTD	16
4	120140	Nut Nylock 3/4-10 GR5 PLTD	8
5	120154	1" Flat Washer USS	2
6	120186	Cylinder 3 x 8 1-1/4 Tie Rod	1
7	120330	Backing Plate 10" Tube	5
8	121015	Bolt 1/4-20 x 1-1/2 GR5 PLTD	2
9	121525	Coulter Harrow Gang Cylinder Frame Ear	1
10	122193*	Gang Hanger Bracket Right	1
11	122523	Coulter Arm Stop	2
12	123206	Coulter Rockshaft Cylinder Ear Backing Plate 8 Hole	1
13	123867	Bolt 5/8-11 x 2-1/2 GR8 YZ PLTD	6
14	125053	Bolt 3/4-10 x 4-1/2 GR8 YZ PLTD	8
15	125072	Coulter Harrow Rockshaft Cylinder, Ear, 8 Hole, 3/4" Plate	1
16	125112	Backing Plate / Gang Hanger Brackt 10"	2
17	125119	Coulter Harrow Gang End Stop Right	1
18	125120	Coulter Harrow Gang End Stop Left	1
19	125202	Coulter Arm Stop 3-3/4" Wide	4
20	125903	8' Section Gang Tue, Wing Back Version	1
21	126032	Clevis Pin 1" x 3-1/2" PLTD	2



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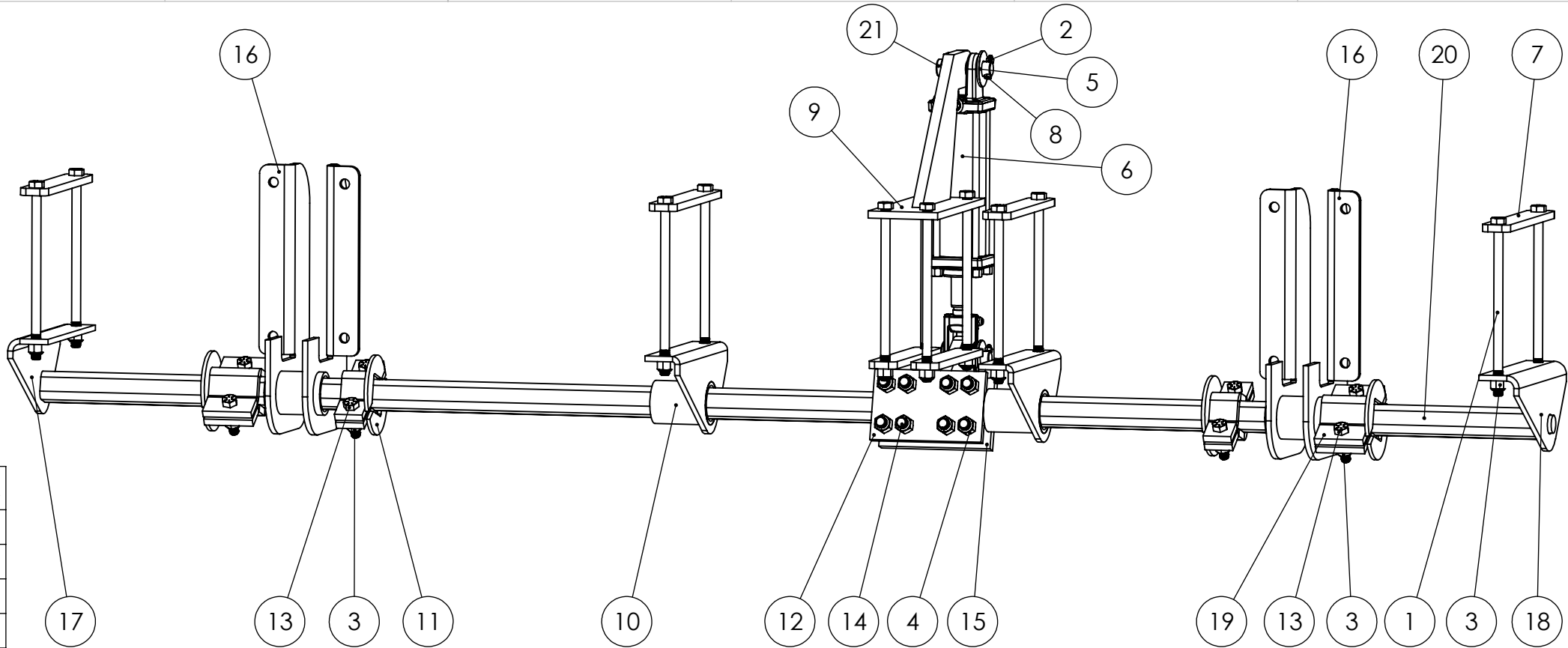
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*For LEFT gang, replace Item (10) with 122192 (Gang Hanger Bracket Left)

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	120109	Bolt 5/8-11 x 12 GR5 PLTD	12
2	120131	Nut Nylock 1/4-20 GR5 PLTD	2
3	120138	Nut Nylock 5/8-11 GR5 PLTD	20
4	120140	Nut Nylock 3/4-10 GR5 PLTD	8
5	120154	1" Flat Washer USS	2
6	120186	Cylinder 3 x 8 x 1-1/4 Tie Rod	1
7	120330	Backing Plate 10" Tube	6
8	121015	Bolt 1/4-20 x 1-1/2 GR5 PLTD	2
9	121525	Coulter Gang Cylinder Frame Ear Narrow	1
10	122193*	Gang Hanger Bracket Right	2
11	122523	Coulter Arm Stop	4
12	123206	Coulter Rockshaft Cylinder Ear Backing Plate 8 Hole	1
13	123867	Bolt 5/8-11 x 2-1/2 GR8 YZ PLTD	8
14	125053	Bolt 3/4-10 x 4-1/2 GR8 YZ PLTD	8
15	125072	Coulter Harrow Rocksaft Cylinder Ear, 8 Hole, 3/4" Plate	1
16	125112	Backing Plate / Gang Hanger Bracket 10"	2
17	125119	Coulter Harrow Gang End Stop right	1
18	125120	Coulter Harrow Gang End Stop Left	1
19	125202	Coulter Arm Stop 3-3/4" Wide	4
20	125769	10' Section Gang Tube, Wing Back Version	1
21	126032	Clevis Pin 1" x 3-1/2" PLTD	2



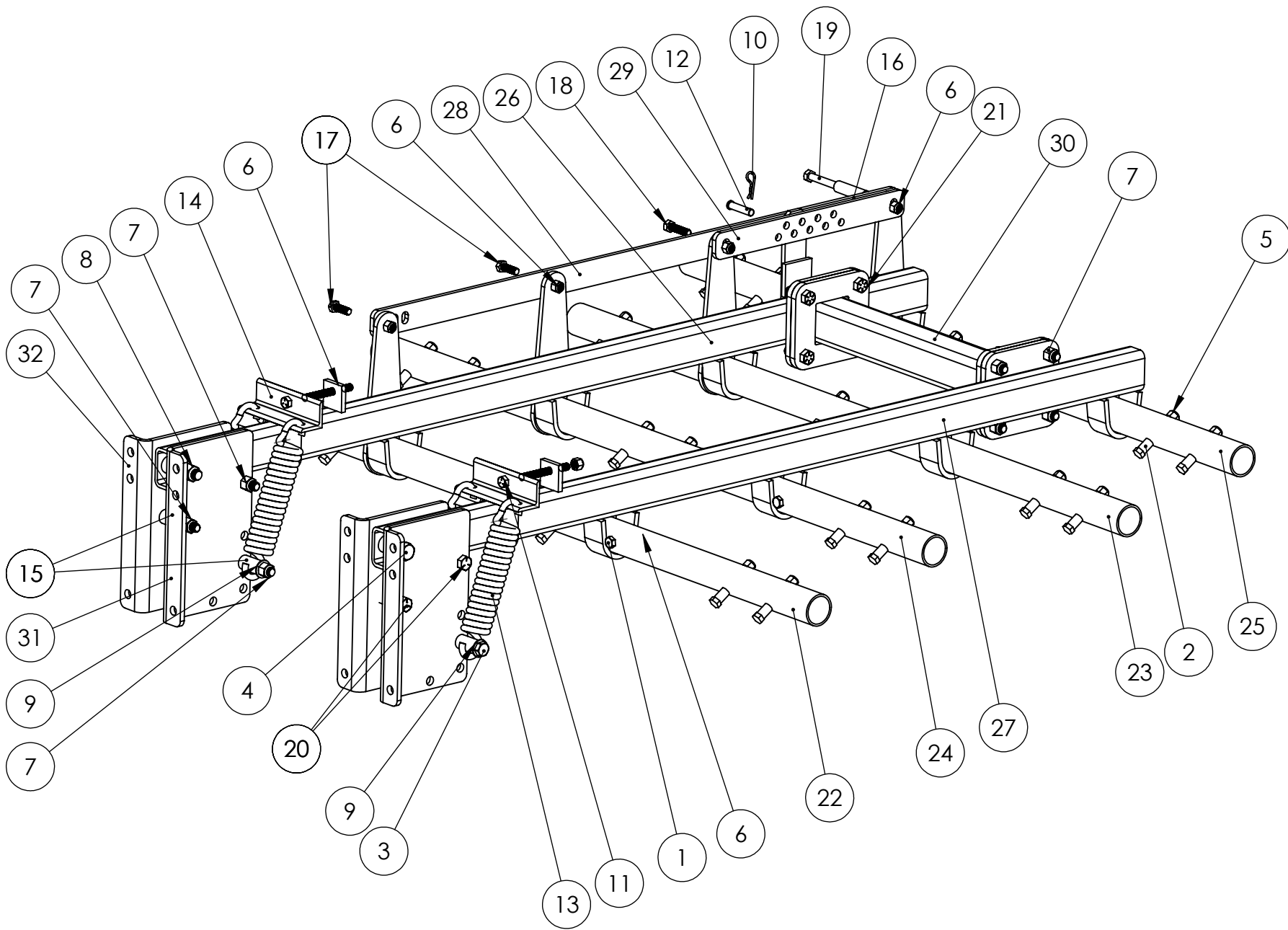
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	8	7	6		5	4	3	2	1	15
ITEM NO.	PART NUMBER	DESCRIPTION			QTY.					
1	120092	Bolt 1/2-13 x 3 GR5 PLTD			2					
2	120094	1/2" x 3.75" Shoulder Bolt			24					
3	120106	Bolt 5/8-11 x 8 GR5 PLTD			2					
4	120112	Bolt 3/4-10 x 4 GR5 PLTD			2					
5	120136	Nut Nylock 1/2-13 GR5 YELLOW PLTD			24					
6	120137	Nut Nylock 1/2-13 GR5 PLTD			8					
7	120138	Nut Nylock 5/8-11 GR5 PLTD			14					
8	120140	Nut Nylock 3/4-10 GR5 PLTD			2					
9	120151	Washer Flat 5/8 PLTD			4					
10	120160	Pin Hair Pin Clip #16			1					
11	120163	Continuous Thread Bolt 1/2-13 x 6 GR5 PLTD			2					
12	120164	Pin Clevis 1/2 X 2 PLTD			1					
13	120238	Tension Spring .4375 x 10-3/4			4					
14	120336	Tension Tightner			2					
15	120376	Spacer 3/4 ID x 2.0625			10					
16	120387	Adjustment Spacer			1					
17	121091	Bolt 1/2-13 x 1-1/2 GR5 PLTD			2					
18	121093	Bolt 1/2-13 x 2 GR5 PLTD			1					
19	121098	Bolt 1/2-13 x 5-1/2 GR5 PLTD			1					
20	121130	Bolt 5/8-11 x 4 GR5 PLTD			4					
21	121776	Bolt 5/8-11 x 2 GR8 YZ PLTD			8					
22	122201	Harrow Pipe, DBH, 10' 4 Bar #1			1					
23	122202	Harrow Pipe, DBH, 6' 4 Bar #2			1					
24	122203	Harrow Pipe, DBH, 6' 4 Bar #3			1					
25	122204	Harrow Pipe, DBH, 6' 4 Bar #4			1					
26	123195	4 Bar Drawbar Arm Manual Tine Adj. Right			1					
27	123719	4 Bar Drawbar Arm Left			1					
28	123811	Linkage Manual Tine Adjust 4 Bar			1					
29	123813	Linkage Manual Tine Adjust Rear Adjustment Plate			1					
30	125215	6' Stabilizer Bar 5/8 Bolt Mount			1					
31	125945	Drawbar Harrow Frame Bracket, Left, 8, 10 Tube 3/8 Material			2					
32	125946	Drawbar Harrow Frame Bracket, Right, 8, 10 Tube 3/8 Material			2					

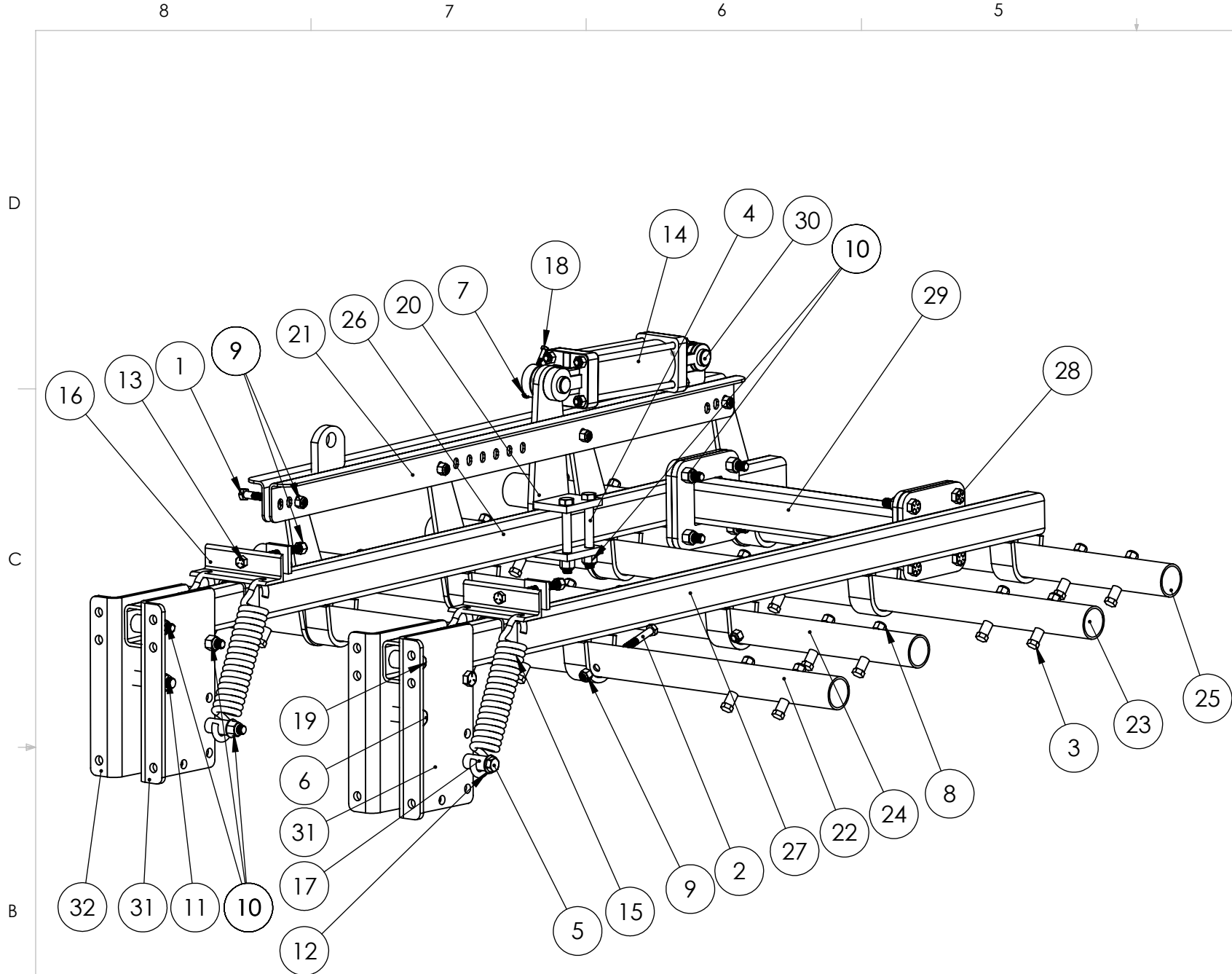


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		UNLESS OTHERWISE SPECIFIED:	SCALE: 1:10	NAME	DATE	 DESCRIPTION: 6' 4 Bar Drawbar Section Manual Tine Adjust.	
		DIMENSIONS ARE IN INCHES	DRAWN				
		TOLERANCES:	CHECKED				
		FRACTIONAL ±1/8	ENG APPR.				
		ANGULAR: MACH ±2 BEND ±2	MFG APPR.				
		TWO PLACE DECIMAL ±.01	Q.A.			SIZE	PART NUMBER:
		THREE PLACE DECIMAL ±.005	COMMENTS:			B	See Table
		THIRD ANGLE				WEIGHT: 272.639	SHEET 1 OF 1
							
		MATERIAL					
		FINISH					
NEXT ASSY	USED ON						
APPLICATION		DO NOT SCALE DRAWING					



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	120090	Bolt 1/2"-13 x 2" GR8 PLTD	4
2	120092	Bolt 1/2-13 x 3 GR5 PLTD	2
3	120094	1/2"x3.75" Shoulder bolt	24
4	120102	Bolt 5/8-11 x 5 Grade 8 Plated	2
5	120106	Bolt 5/8-11 x 8 Grade 5 Plated	2
6	120112	Boly 3/4-10 x 4 Grade 5 Plated	2
7	120131	NUT NYLOCK 1/4-20 GR5 PLTD	2
8	120136	Nut Nylock 1/2-13 GR5 YELLOW PLTD	24
9	120137	NUT NYLOCK 1/2-13 GR5 PLTD	8
10	120138	Nut Nylock 5/8-11 GR5 PLTD	16
11	120140	NUT NYLOCK 3/4-10 GR5 PLTD	2
12	120151	Washer Flat 5/8 PLTD	4
13	120163	Continuous Thread Bolt 1/2-13x6 Grade 5 Plated	2
14	120174	Cylinder 3x6x1-1/4 Tie Rod Double Rephasing DBH	1
15	120238	Tension Spring .4375x10-3/4	4
16	120336	Tension Tightner	2
17	120376	Spacer 3/4 IDx2.0625	10
18	121015	Bolt 1/4-20x1-1/2 Grade 5 Plated	2
19	121130	Bolt 5/8-11x4 Grade 5 Plated	4
20	121520	Assy Hydraulic Tine Adjustment Stationary Ear	1
21	122179	Assy 4 Bar Hydraulic Tine Linkage	1
22	122201	"HARROW PIPE, DBH, 10' 4BAR #1"	1
23	122202	"HARROW PIPE, DBH, 6' 4BAR #2"	1
24	122203	"HARROW PIPE, DBH, 6' 4BAR #3"	1
25	122204	"HARROW PIPE, DBH, 6' 4BAR #4"	1
26	123196	Assy 4 Bar Drawbar Arm Hydraulic Tine Adj. Right	1
27	123719	Assy 4 Bar Drawbar Arm Left	1
28	123867	Bolt 5/8-11x2-1/2 Grade 8 YZ Pltd	8
29	125215	6' Stabilizer Bar 5/8 Bolt Mount	1
30	125880	Clevis Pin 1"x3" Plated	2
31	125945	Drawbar Harrow Frame Bracket, Left, 8, 10 Tube 3/8 Material	2
32	125946	Drawbar Harrow Frame Bracket, Right, 8, 10 Tube 3/8 Material	2

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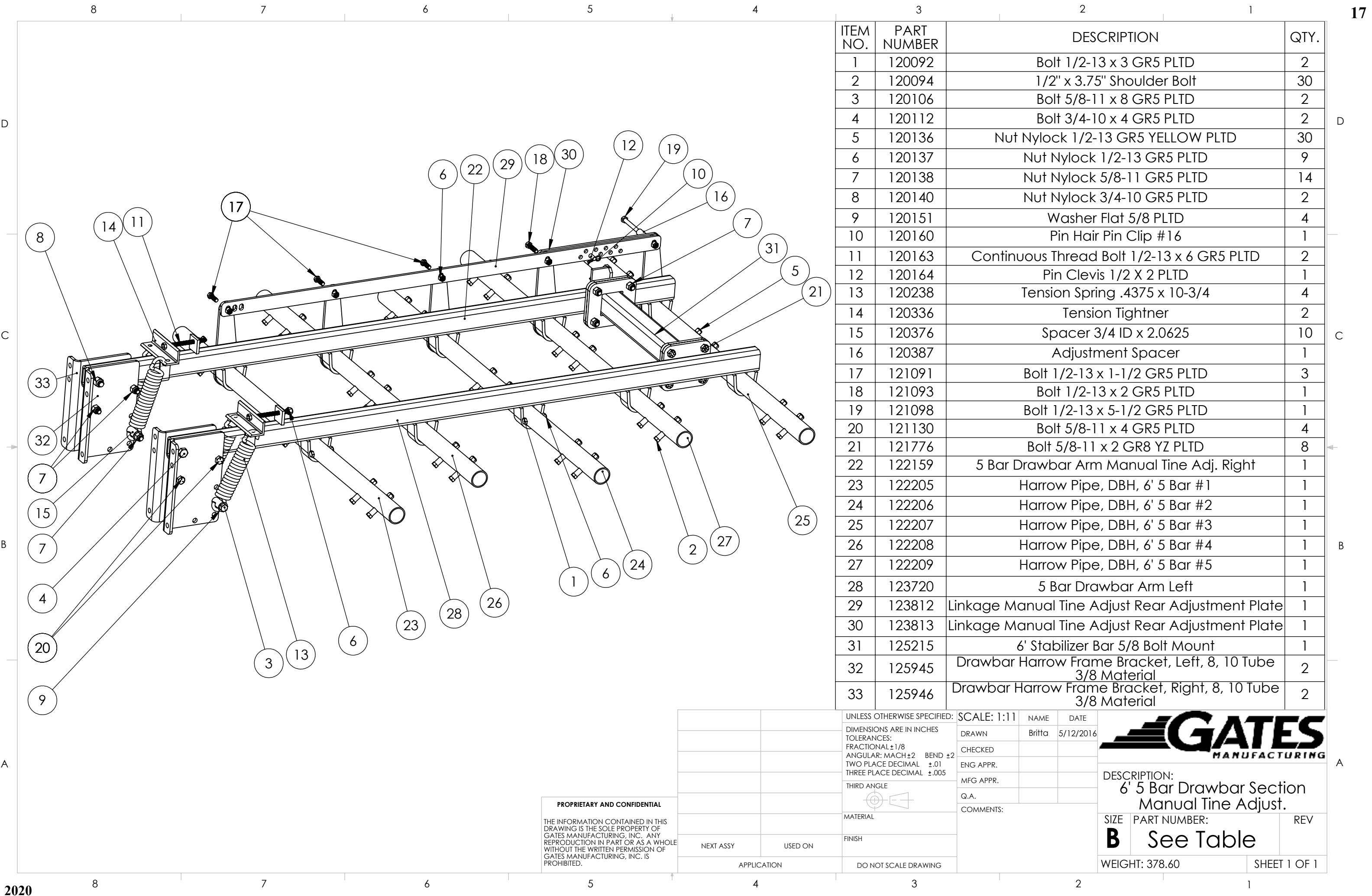
		UNLESS OTHERWISE SPECIFIED:		SCALE: 1:10	NAME	DATE
		DIMENSIONS ARE IN INCHES		DRAWN	Britta	10/26/2015
		TOLERANCES:		CHECKED		
		FRACTIONAL ±1/8		ENG APPR.		
		ANGULAR: MACH ±2 BEND ±2		MFG APPR.		
		TWO PLACE DECIMAL ±.01		Q.A.		
		THREE PLACE DECIMAL ±.005		COMMENTS:		
		THIRD ANGLE				
		MATERIAL				
		FINISH				
NEXT ASSY	USED ON					
APPLICATION		DO NOT SCALE DRAWING				

DESCRIPTION:
6' 4 Bar Drawbar Section Hydraulic Tine Adjust.

SIZE	PART NUMBER:	REV
B	See Table	

WEIGHT: 298.51 SHEET 1 OF 1

A



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	120092	Bolt 1/2-13 x 3 GR5 PLTD	2
2	120094	1/2" x 3.75" Shoulder Bolt	30
3	120106	Bolt 5/8-11 x 8 GR5 PLTD	2
4	120112	Bolt 3/4-10 x 4 GR5 PLTD	2
5	120136	Nut Nylock 1/2-13 GR5 YELLOW PLTD	30
6	120137	Nut Nylock 1/2-13 GR5 PLTD	9
7	120138	Nut Nylock 5/8-11 GR5 PLTD	14
8	120140	Nut Nylock 3/4-10 GR5 PLTD	2
9	120151	Washer Flat 5/8 PLTD	4
10	120160	Pin Hair Pin Clip #16	1
11	120163	Continuous Thread Bolt 1/2-13 x 6 GR5 PLTD	2
12	120164	Pin Clevis 1/2 X 2 PLTD	1
13	120238	Tension Spring .4375 x 10-3/4	4
14	120336	Tension Tightner	2
15	120376	Spacer 3/4 ID x 2.0625	10
16	120387	Adjustment Spacer	1
17	121091	Bolt 1/2-13 x 1-1/2 GR5 PLTD	3
18	121093	Bolt 1/2-13 x 2 GR5 PLTD	1
19	121098	Bolt 1/2-13 x 5-1/2 GR5 PLTD	1
20	121130	Bolt 5/8-11 x 4 GR5 PLTD	4
21	121776	Bolt 5/8-11 x 2 GR8 YZ PLTD	8
22	122159	5 Bar Drawbar Arm Manual Tine Adj. Right	1
23	122205	Harrow Pipe, DBH, 6' 5 Bar #1	1
24	122206	Harrow Pipe, DBH, 6' 5 Bar #2	1
25	122207	Harrow Pipe, DBH, 6' 5 Bar #3	1
26	122208	Harrow Pipe, DBH, 6' 5 Bar #4	1
27	122209	Harrow Pipe, DBH, 6' 5 Bar #5	1
28	123720	5 Bar Drawbar Arm Left	1
29	123812	Linkage Manual Tine Adjust Rear Adjustment Plate	1
30	123813	Linkage Manual Tine Adjust Rear Adjustment Plate	1
31	125215	6' Stabilizer Bar 5/8 Bolt Mount	1
32	125945	Drawbar Harrow Frame Bracket, Left, 8, 10 Tube 3/8 Material	2
33	125946	Drawbar Harrow Frame Bracket, Right, 8, 10 Tube 3/8 Material	2

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UNLESS OTHERWISE SPECIFIED:
DIMENSIONS ARE IN INCHES
TOLERANCES:
FRACTIONAL ±1/8
ANGULAR: MACH ±2 BEND ±2
TWO PLACE DECIMAL ±.01
THREE PLACE DECIMAL ±.005
THIRD ANGLE

MATERIAL
FINISH

SCALE: 1:11
DRAWN
CHECKED
ENG APPR.
MFG APPR.
Q.A.
COMMENTS:

NAME
DATE
Britta 5/12/2016



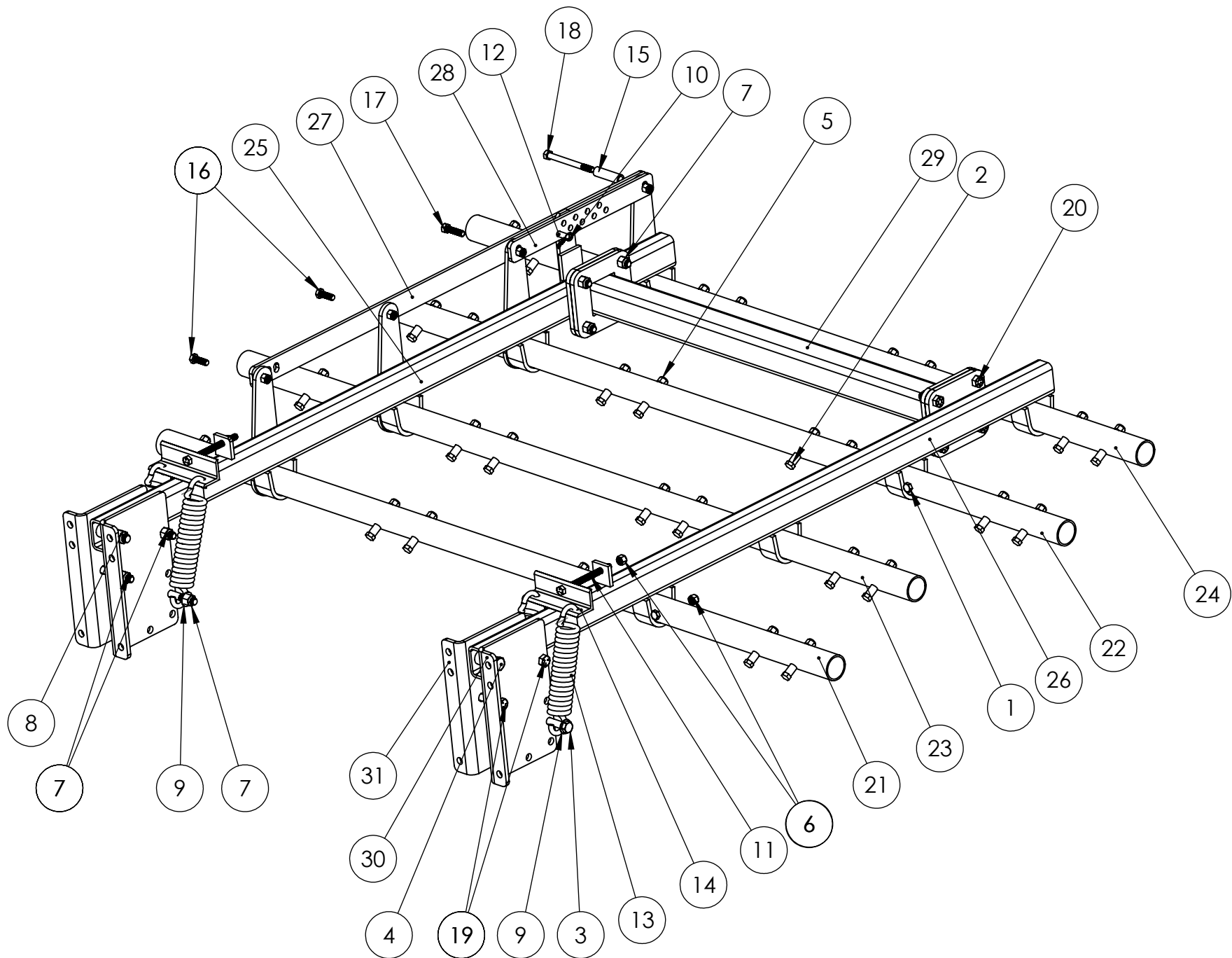
DESCRIPTION:
6' 5 Bar Drawbar Section
Manual Tine Adjust.

SIZE	PART NUMBER:	REV
B	See Table	

WEIGHT: 378.60 SHEET 1 OF 1

C

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	120092	Bolt 1/2-13 x 3 GR5 PLTD	2
2	120094	1/2" x 3.75" Shoulder Bolt	32
3	120106	Bolt 5/8-11 x 8 GR5 PLTD	2
4	120112	Bolt 3/4-10 x 4 GR5 PLTD	2
5	120136	Nut Nylock 1/2-13 GR5 YELLOW PLTD	32
6	120137	Nut Nylock 1/2-13 GR5 PLTD	8
7	120138	Nut Nylock 5/8-11 GR5 PLTD	14
8	120140	Nut Nylock 3/4-10 GR5 PLTD	2
9	120151	Washer Flat 5/8 PLTD	4
10	120160	Pin Hair Pin Clip #16	1
11	120163	Continuous Thread Bolt 1/2-13 x 6 GR5 PLTD	2
12	120164	PIN CLEVIS 1/2 X 2 PLTD	1
13	120238	Tension Spring .4375 x 10-3/4	4
14	120336	Tension Tightner	2
15	120387	Adjustment Spacer	1
16	121091	Bolt 1/2-13 x 1-1/2 GR5 PLTD	2
17	121093	Bolt 1/2-13 x 2 GR5 PLTD	1
18	121098	Bolt 1/2-13 x 5-1/2 GR5 PLTD	1
19	121130	Bolt 5/8-11 x 4 GR5 PLTD	4
20	121776	Bolt 5/8-11 x 2 GR8 YZ PLTD	8
21	122210	Harrow Pipe, DBH, 8' 4 Bar #1	1
22	122211	Harrow Pipe, DBH, 8' 4 Bar #2	1
23	122212	Harrow Pipe, DBH, 8' 4 Bar #3	1
24	122213	Harrow Pipe, DBH, 8' 4 Bar #4	1
25	123195	4 Bar Drawbar Arm Manual Tine Adj. Right	1
26	123719	4 Bar Drawbar Arm Left	1
27	123811	Linkage Manual Tine Adjust 4 Bar	1
28	123813	Linkage Manual Tine Adjust Rear Adjustment Plate	1
29	125216	8' Stabilizer Bar 5/8 Bolt Mount	1
30	125945	Drawbar Harrow Frame Bracket, Left, 8, 10 Tube 3/8 Material	2
31	125946	Drawbar Harrow Frame Bracket, Right, 8, 10 Tube 3/8 Material	2



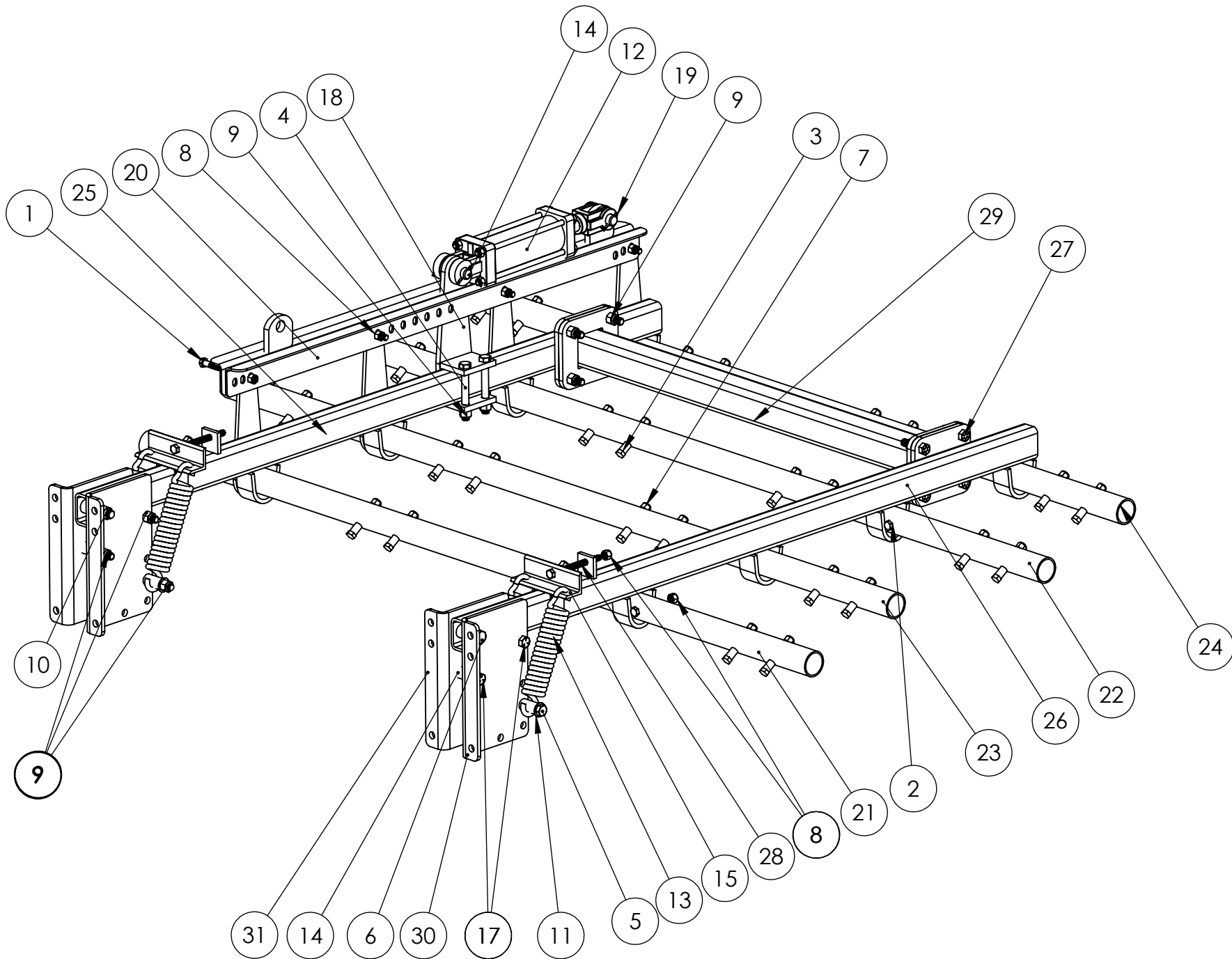
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		UNLESS OTHERWISE SPECIFIED:		SCALE: 1:12	NAME	DATE
		DIMENSIONS ARE IN INCHES		DRAWN		
		TOLERANCES:		CHECKED		
		FRACTIONAL ±1/8		ENG APPR.		
		ANGULAR: MACH ±2 BEND ±2		MFG APPR.		
		TWO PLACE DECIMAL ±.01		Q.A.		
		THREE PLACE DECIMAL ±.005		COMMENTS:		
		THIRD ANGLE				
		MATERIAL				
		FINISH				
NEXT ASSY	USED ON					
APPLICATION		DO NOT SCALE DRAWING				

DESCRIPTION: 8' 4 Bar Drawbar Section Manual Tine Adjust.		
SIZE	PART NUMBER:	REV
B	See Table	
WEIGHT: 372.186		SHEET 1 OF 1

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	120090	Bolt 1/2-13 x 2 GR8 PLTD	4
2	120092	Bolt 1/2-13 x 3 GR5 PLTD	2
3	120094	1/2" x 3.75" Shoulder Bolt	32
4	120102	Bolt 5/8-11 x 5 GR8 PLTD	2
5	120106	Bolt 5/8-11 x 8 GR5 PLTD	2
6	120112	Bolt 3/4-10 x 4 GR5 PLTD	2
7	120136	Nut Nylock 1/2-13 GR5 YELLOW PLTD	32
8	120137	Nut Nylock 1/2-13 GR5 PLTD	8
9	120138	Nut Nylock 5/8-11 GR5 PLTD	16
10	120140	Nut Nylock 3/4-10 GR5 PLTD	2
11	120151	Washer Flat 5/8 PLTD	4
12	120174	Cylinder 3 x 6 x 1-1/4 Tie Rod Double Rephasing DBH	1
13	120238	Tension Spring .4375 x 10-3/4	4
14	120333	Cylinder Pin 1 x 3-3/4 3 Usable	2
15	120336	Tension Tightner	2
14	120376	Spacer 3/4 ID x 2.0625	10
17	121130	Bolt 5/8-11 x 4 GR5 PLTD	4
18	121520	Hydraulic Tine Adjustment Stationary Ear	1
19	121807	Cotter Pin 3/16 x 1-1/2	4
20	122179	4 Bar Hydraulic Tine Linkage	1
21	122210	Harrow Pipe, DBH, 8' 4 Bar #1	1
22	122211	Harrow Pipe, DBH, 8' 4 Bar #2	1
23	122212	Harrow Pipe, DBH, 8' 4 Bar #3	1
24	122213	Harrow Pipe, DBH, 8' 4 Bar #4	1
25	123196	4 Bar Drawbar Arm Hydraulic Tine Adj. Right	1
26	123719	4 Bar Drawbar Arm Left	1
27	123867	Bolt 5/8-11 x 2-1/2 GR8 YZ PLTD	8
28	124747	Bolt 1/2-13 x 6 Fully Threaded GR5 PLTD	2
29	125216	8' Stabilizer Bar 5/8 Bolt Mount	1
30	125945	Drawbar Harrow Frame Bracket, Left, 8, 10 Tube 3/8 Material	2
31	125946	Drawbar Harrow Frame Bracket, Right, 8, 10 Tube 3/8 Material	2



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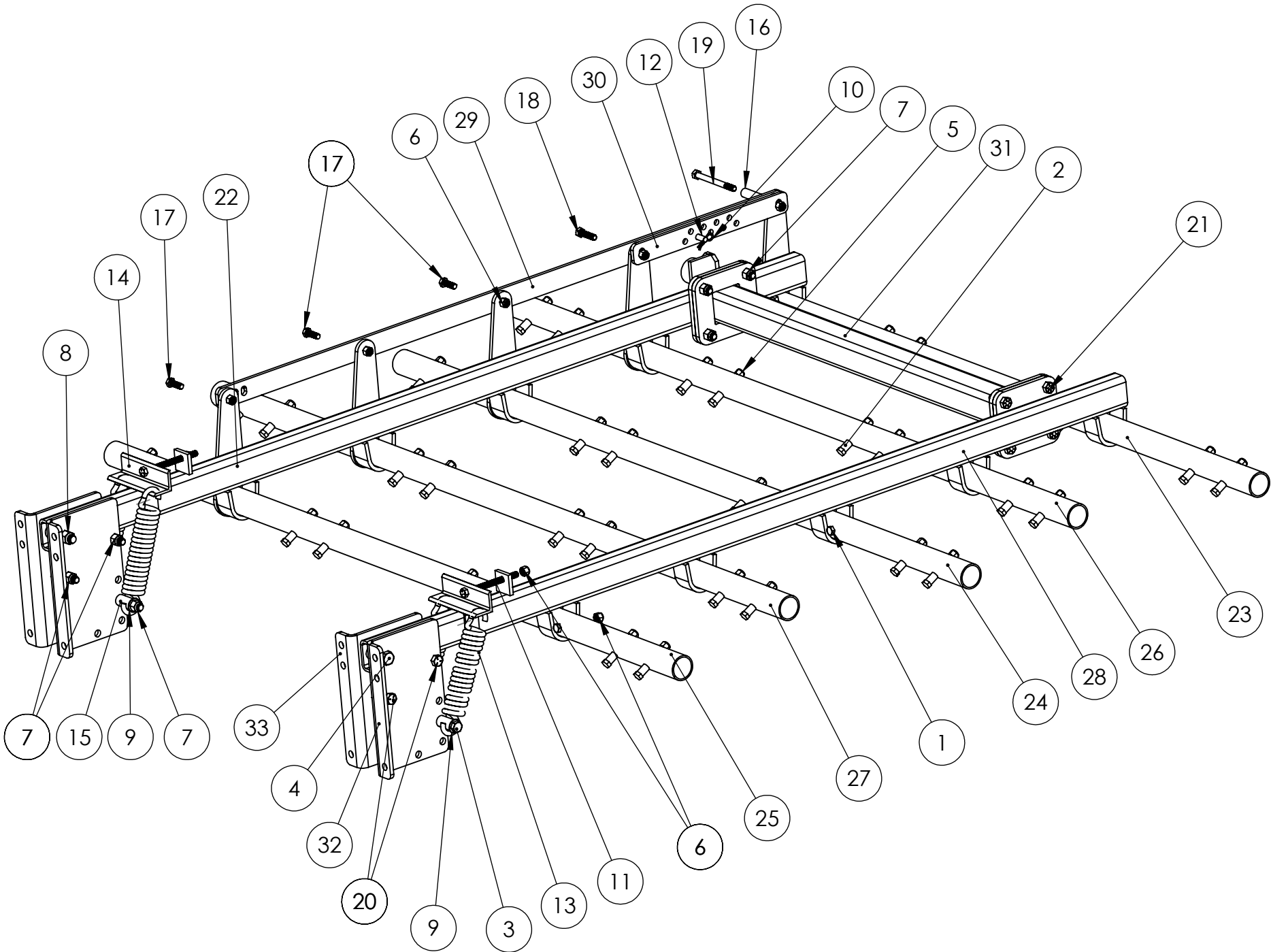
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		DIMENSIONS ARE IN INCHES		DRAWN	Britta	6/26/2015
		TOLERANCES:		CHECKED		
		FRACTIONAL ±1/8		ENG APPR.		
		ANGULAR: MACH ±2 BEND ±2		MFG APPR.		
		TWO PLACE DECIMAL ±.01		Q.A.		
		THREE PLACE DECIMAL ±.005		COMMENTS:		
		THIRD ANGLE				
		MATERIAL				
NEXT ASSY		USED ON				
APPLICATION		DO NOT SCALE DRAWING				

DESCRIPTION:
8' 4 Bar Drawbar Section Hydraulic Tine Adjust.

SIZE	PART NUMBER:	REV
B	See Table	

WEIGHT: 403.97 SHEET 1 OF 1

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	120092	Bolt 1/2-13 x 3 GR5 PLTD	2
2	120094	1/2" x 3.75" Shoulder Bolt	40
3	120106	Bolt 5/8-11 x 8 GR5 PLTD	2
4	120112	Bolt 3/4-10 x 4 GR5 PLTD	2
5	120136	Nut Nylock 1/2-13 GR5 YELLOW PLTD	40
6	120137	Nut Nylock 1/2-13 GR5 PLTD	9
7	120138	Nut Nylock 5/8-11 GR5 PLTD	14
8	120140	Nut Nylock 3/4-10 GR5 PLTD	2
9	120151	Washer Flat 5/8 PLTD	4
10	120160	Pin Hair Pin Clip #16	1
11	120163	Continuous Thread Bolt 1/2-13 x 6 GR5 PLTD	2
12	120164	Pin Clevis 1/2 X 2 PLTD	1
13	120238	Tension Spring .4375 x 10-3/4	4
14	120336	Tension Tightner	2
15	120376	Spacer 3/4 ID x 2.0625	10
16	120387	Adjustment Spacer	1
17	121091	Bolt 1/2-13 x 1-1/2 GR5 PLTD	3
18	121093	Bolt 1/2-13 x 2 GR5 PLTD	1
19	121098	Bolt 1/2-13 x 5-1/2 GR5 PLTD	1
20	121130	Bolt 5/8-11 x 4 GR5 PLTD	4
21	121776	Bolt 5/8-11 x 2 GR8 YZ PLTD	8
22	122159	5 Bar Drawbar Arm Manual Tine Adj. Right	1
23	122214	Harrow Pipe, DBH, 8' 5 Bar #1	1
24	122215	Harrow Pipe, DBH, 8' 5 Bar #2	1
25	122216	Harrow Pipe, DBH, 8' 5 Bar #3	1
26	122217	Harrow Pipe, DBH, 8' 5 Bar #4	1
27	122218	Harrow Pipe, DBH, 8' 5 Bar #5	1
28	123720	5 Bar Drawbar Arm Left	1
29	123812	Linkage Manual Tine Adjust Rear Adjustment Plate	1
30	123813	Linkage Manual Tine Adjust Rear Adjustment Plate	1
31	125216	8' Stabilizer Bar 5/8 Bolt Mount	1
32	125945	Drawbar Harrow Frame Bracket, Left, 8, 10 Tube 3/8 Material	2
33	125946	Drawbar Harrow Frame Bracket, Right, 8, 10 Tube 3/8 Material	2



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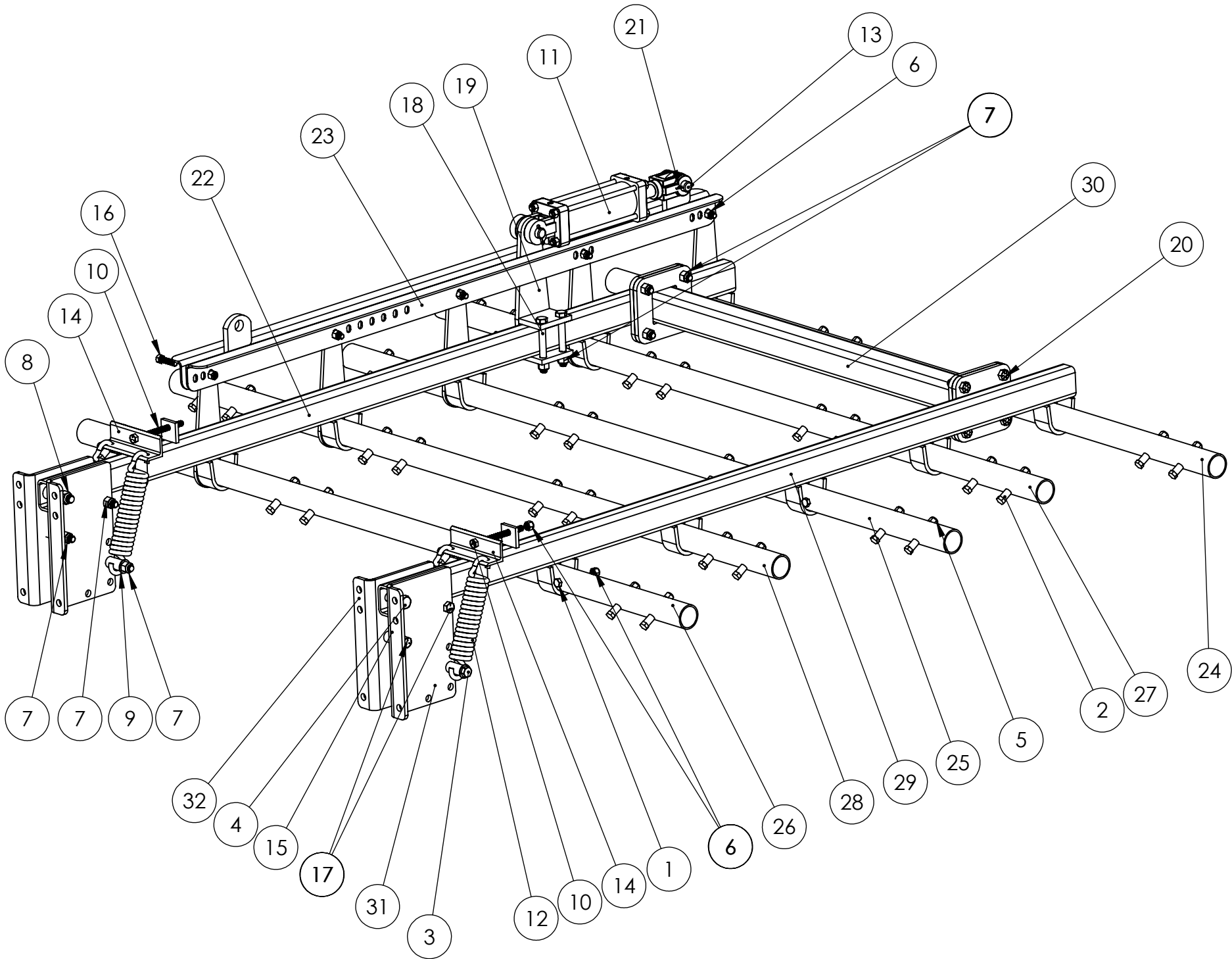
UNLESS OTHERWISE SPECIFIED:		SCALE: 1:12		NAME	DATE
DIMENSIONS ARE IN INCHES		DRAWN	Britta	6/7/2016	
TOLERANCES:		CHECKED			
FRACTIONAL ±1/8		ENG APPR.			
ANGULAR: MACH ±2		MFG APPR.			
BEND ±2		Q.A.			
TWO PLACE DECIMAL ±.01		COMMENTS:			
THREE PLACE DECIMAL ±.005					
THIRD ANGLE					
MATERIAL					
FINISH					
NEXT ASSY	USED ON				
APPLICATION		DO NOT SCALE DRAWING			

DESCRIPTION:
8' 5 Bar Drawbar Section
Manual Tine Adjust.

SIZE	PART NUMBER:	REV
B	See Table	

WEIGHT: 432.23 SHEET 1 OF 1

	8	7	6	5	4	3	2	1	22
ITEM NO.	PART NUMBER	DESCRIPTION			QTY.				
1	120092	Bolt 1/2-13 x 3 GR5 PLTD			2				
2	120094	1/2" x 3.75" Shoulder Bolt			40				
3	120106	Bolt 5/8-11 x 8 GR5 PLTD			2				
4	120112	Bolt 3/4-10 x 4 GR5 PLTD			2				
5	120136	Nut Nylock 1/2-13 GR5 YELLOW PLTD			40				
6	120137	Nut Nylock 1/2-13 GR5 PLTD			9				
7	120138	Nut Nylock 5/8-11 GR5 PLTD			17				
8	120140	Nut Nylock 3/4-10 GR5 PLTD			1				
9	120151	Washer Flat 5/8 PLTD			4				
10	120163	Continuous Thread Bolt 1/2-13 x 6 GR5 PLTD			2				
11	120174	Cylinder 3 x 6 x 1-1/4 Tie Rod Double Rephasing DBH			1				
12	120238	Tension Spring .4375 x 10-3/4			4				
13	120333	Cylinder Pin 1 x 3-3/4 3 Usable			2				
14	120336	Tension Tightner			2				
15	120376	Spacer 3/4 ID x 2.0625			10				
16	121093	Bolt 1/2-13 x 2 GR5 PLTD			5				
17	121130	Bolt 5/8-11 x 4 GR5 PLTD			4				
18	121132	Bolt 5/8-11 x 5 GR5 PLTD			2				
19	121520	Hydraulic Tine Adjustment Stationary Ear			1				
20	121776	Bolt 5/8-11 x 2 GR8 YZ PLTD			8				
21	121807	Cotter Pin 3/16 x 1-1/2			4				
22	122160	5 Bar Drawbar Arm Hydraulic Tine Adj. Right			1				
23	122180	5 Bar Hydraulic Tine Linkage			1				
24	122214	Harrow Pipe, DBH, 8' 5 Bar #1			1				
25	122215	Harrow Pipe, DBH, 8' 5 Bar #2			1				
26	122216	Harrow Pipe, DBH, 8' 5 Bar #3			1				
27	122217	Harrow Pipe, DBH, 8' 5 Bar #4			1				
28	122218	Harrow Pipe, DBH, 8' 5 Bar #5			1				
29	123720	5 Bar Drawbar Arm Left			1				
30	125216	8' Stabilizer Bar 5/8 Bolt Mount			1				
31	125945	Drawbar Harrow Frame Bracket, Left, 8, 10 Tube 3/8 Material			2				
32	125946	Drawbar Harrow Frame Bracket, Right, 8, 10 Tube 3/8 Material			2				



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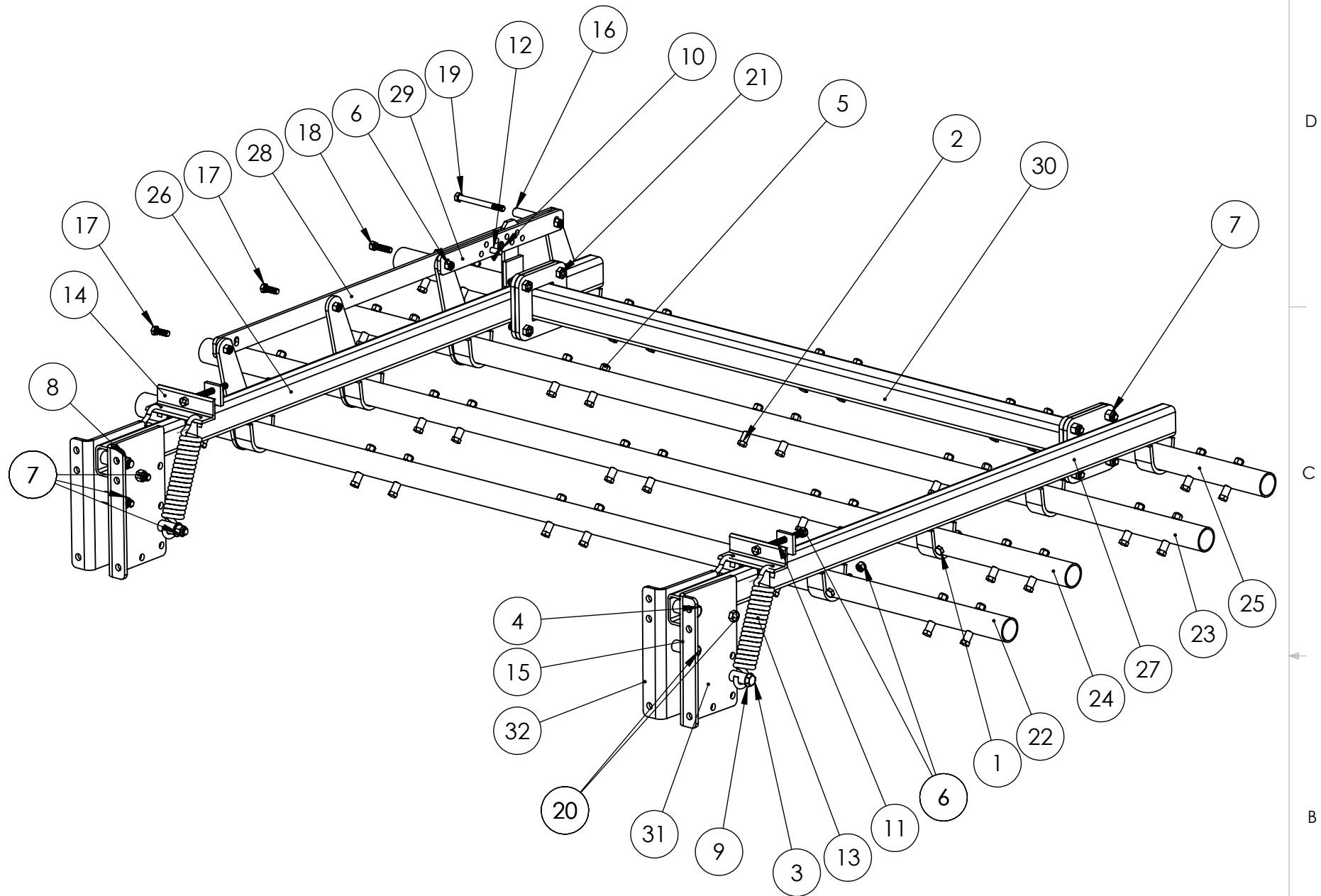
		UNLESS OTHERWISE SPECIFIED:		SCALE: 1:12		NAME		DATE	
		DIMENSIONS ARE IN INCHES		DRAWN					
		TOLERANCES:		CHECKED					
		FRACTIONAL ±1/8		ENG APPR.					
		ANGULAR: MACH ±2		MFG APPR.					
		BEND ±2		Q.A.					
		TWO PLACE DECIMAL ±.01		COMMENTS:					
		THREE PLACE DECIMAL ±.005							
		THIRD ANGLE							
		MATERIAL							
		FINISH							
NEXT ASSY		USED ON							
APPLICATION		DO NOT SCALE DRAWING							

DESCRIPTION: 8' 5 Bar Drawbar Section Hydraulic Tine Adjust.		
SIZE	PART NUMBER:	REV
B	See Table	
WEIGHT: 491.57		SHEET 1 OF 1

A

	8	7	6	5	4	3	2	1	23
	ITEM NO.	PART NUMBER	DESCRIPTION	QTY.					
	1	120092	Bolt 1/2-13 x 3 GR5 PLTD	2					
	2	120094	1/2" x 3.75" Shoulder Bolt	40					
	3	120106	Bolt 5/8-11 x 8 GR5 PLTD	2					
D	4	120112	Bolt 3/4-10 x 4 GR5 PLTD	2					
	5	120136	Nut Nylock 1/2-13 GR5 YELLOW PLTD	40					
	6	120137	Nut Nylock 1/2-13 GR5 PLTD	8					
	7	120138	Nut Nylock 5/8-11 GR5 PLTD	13					
	8	120140	Nut Nylock 3/4-10 GR5 PLTD	2					
	9	120151	Washer Flat 5/8 PLTD	4					
	10	120160	Pin Hair Pin Clip #16	1					
	11	120163	Continuous Thread Bolt 1/2-13 x 6 GR5 PLTD	2					
	12	120164	Pin Clevis 1/2 X 2 PLTD	1					
	13	120238	Tension Spring .4375 x 10-3/4	4					
C	14	120336	Tension Tightner	2					
	15	120376	Spacer 3/4 ID x 2.0625	10					
	16	120387	Adjustment Spacer	1					
	17	121091	Bolt 1/2-13 x 1-1/2 GR5 PLTD	2					
	18	121093	Bolt 1/2-13 x 2 GR5 PLTD	1					
	19	121098	Bolt 1/2-13 x 5-1/2 GR5 PLTD	1					
	20	121130	Bolt 5/8-11 x 4 GR5 PLTD	4					
	21	121776	Bolt 5/8-11 x 2 GR8 YZ PLTD	8					
	22	122219	Harrow Pipe, DBH, 10' 4 Bar #1	1					
	23	122220	Harrow Pipe, DBH, 10' 4 Bar #2	1					
B	24	122221	Harrow Pipe, DBH, 10' 4 Bar #3	1					
	25	122222	Harrow Pipe, DBH, 10' 4 Bar #4	1					
	26	123195	4 Bar Drawbar Arm Manual Tine Adj. Right	1					
	27	123719	4 Bar Drawbar Arm Left	1					
	28	123811	Linkage Manual Tine Adjust 4 Bar	1					
	29	123813	Linkage Manual Tine Adjust Rear Adjustment Plate	1					
	30	125217	10' Stabilizer Bar 5/8 Bolt Mount	1					
	31	125945	Drawbar Harrow Frame Bracket, Left, 8, 10 Tube 3/8 Material	2					
	32	125946	Drawbar Harrow Frame Bracket, Right, 8, 10 Tube 3/8 Material	2					

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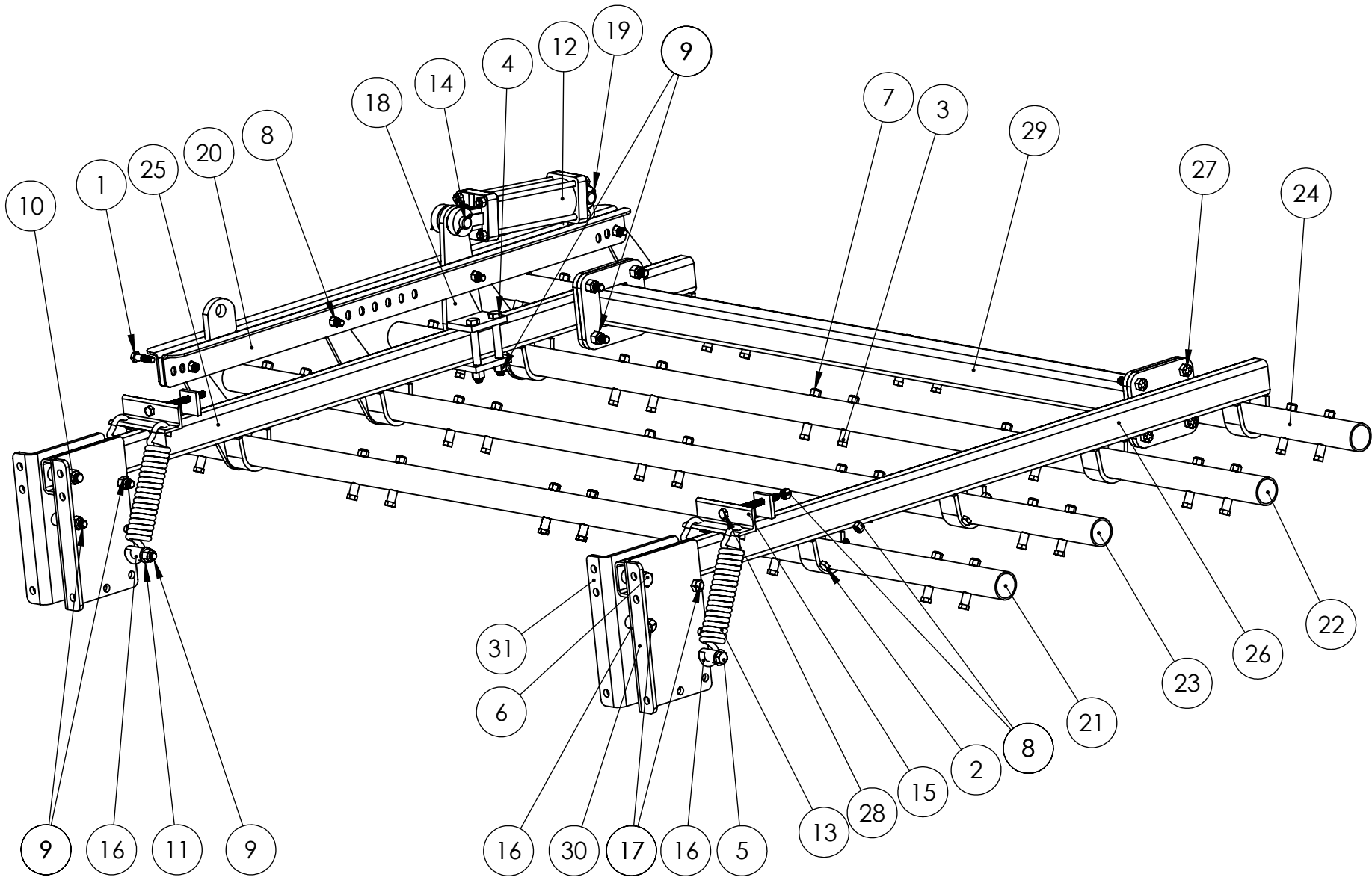
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		DIMENSIONS ARE IN INCHES		DRAWN		
		TOLERANCES:		CHECKED		
		FRACTIONAL ±1/8		ENG APPR.		
		ANGULAR: MACH ±2 BEND ±2		MFG APPR.		
		THIRD ANGLE		Q.A.		
				COMMENTS:		
		MATERIAL				
NEXT ASSY		USED ON				
APPLICATION		DO NOT SCALE DRAWING				

DESCRIPTION: 10' 4 Bar Drawbar Section Manual Tine Adjust.		
SIZE	PART NUMBER:	REV
B	See Table	
WEIGHT: 324.991		SHEET 1 OF 1

	8	7	6	5	4	3	2	1	24
	ITEM NO.	PART NUMBER	DESCRIPTION	QTY.					
	1	120090	Bolt 1/2-13 x 2 GR8 PLTD	4					
	2	120092	Bolt 1/2-13 x 3 GR5 PLTD	2					
	3	120094	1/2" x 3.75" Shoulder Bolt	46					
D	4	120102	Bolt 5/8-11 x 5 GR8 PLTD	2					
	5	120106	Bolt 5/8-11 x 8 GR5 PLTD	2					
	6	120112	Bolt 3/4-10 x 4 GR5 PLTD	2					
	7	120136	Nut Nylock 1/2-13 GR5 YELLOW PLTD	46					
	8	120137	Nut Nylock 1/2-13 GR5 PLTD	8					
	9	120138	Nut Nylock 5/8-11 GR5 PLTD	16					
	10	120140	Nut Nylock 3/4-10 GR5 PLTD	2					
	11	120151	Washer Flat 5/8 PLTD	4					
	12	120174	Cylinder 3 x 6 x 1-1/4 Tie Rod Double Rephasing DBH	1					
C	13	120238	Tension Spring .4375 x 10-3/4	4					
	14	120333	Cylinder Pin 1 x 3-3/4 3 Usable	2					
	15	120336	Tension Tightner	2					
	16	120376	Spacer 3/4 ID x 2.0625	10					
	17	121130	Bolt 5/8-11 x 4 GR5 PLTD	4					
	18	121520	Hydraulic Tine Adjustment Stationary Ear	1					
	19	121807	Cotter Pin 3/16 x 1-1/2	4					
	20	122179	4 Bar Hydraulic Tine Linkage	1					
	21	122219	Harrow Pipe, DBH, 10' 4 Bar #1	1					
	22	122220	Harrow Pipe, DBH, 10' 4 Bar #2	1					
B	23	122221	Harrow Pipe, DBH, 10' 4 Bar #3	1					
	24	122222	Harrow Pipe, DBH, 10' 4 Bar #4	1					
	25	123196	4 Bar Drawbar Arm Hydraulic Tine Adj. Right	1					
	26	123719	4 Bar Drawbar Arm Left	1					
	27	123867	Bolt 5/8-11 x 2-1/2 GR8 YZ PLTD	8					
	28	124747	Bolt 1/2-13 x 6 Fully Threaded GR5 PLTD	2					
	29	125217	10' Stabilizer Bar 5/8 Bolt Mount	1					
	30	125945	Drawbar Harrow Frame Bracket, Left, 8, 10 Tube 3/8 Material	2					
A	31	125946	Drawbar Harrow Frame Bracket, Right, 8, 10 Tube 3/8 Material	2					

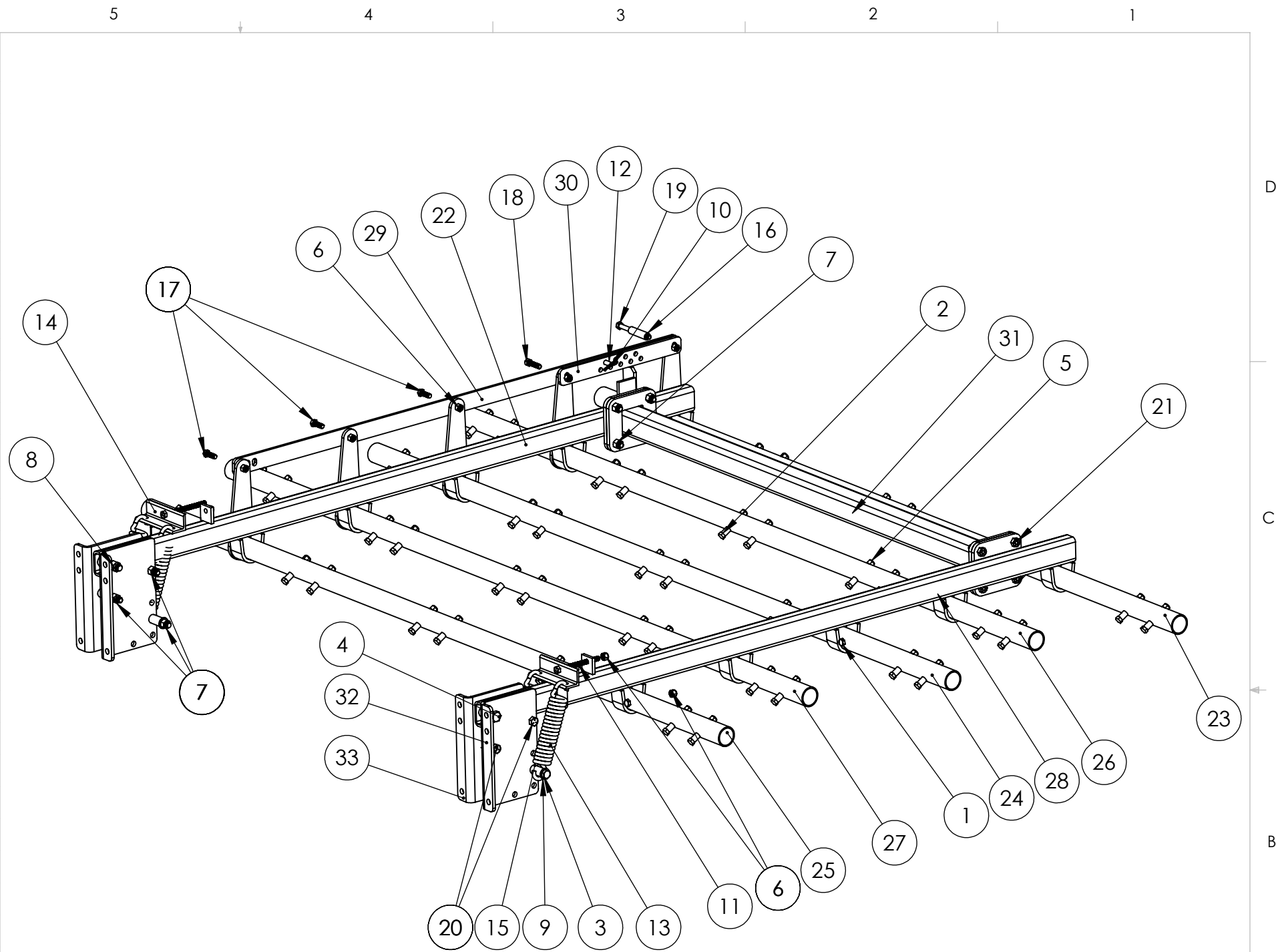


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		UNLESS OTHERWISE SPECIFIED:	SCALE: 1:12	NAME	DATE	 DESCRIPTION: 10' 4 Bar Drawbar Section Hydraulic Tine Adjust.		
		DIMENSIONS ARE IN INCHES	DRAWN	Britta	6/26/2015			
		TOLERANCES:	CHECKED					
		FRACTIONAL ±1/8	ENG APPR.					
		ANGULAR: MACH ±2 BEND ±2	MFG APPR.					
		TWO PLACE DECIMAL ±.01	Q.A.			SIZE	PART NUMBER:	REV
		THREE PLACE DECIMAL ±.005	COMMENTS:			B	See Table	
		THIRD ANGLE				WEIGHT: 357.04		
						SHEET 1 OF 1		
		MATERIAL						
		FINISH						
	NEXT ASSY	USED ON						
	APPLICATION		DO NOT SCALE DRAWING					

	8	7	6	5	4	3	2	1	25
	ITEM NO.	PART NUMBER	DESCRIPTION	QTY.					
	1	120092	Bolt 1/2-13 x 3 GR5 PLTD	2					
	2	120094	1/2" x 3.75" Shoulder Bolt	50					
	3	120106	Bolt 5/8-11 x 8 GR5 PLTD	2					
D	4	120112	Bolt 3/4-10 x 4 GR5 PLTD	2					
	5	120136	Nut Nylock 1/2-13 GR5 YELLOW PLTD	50					
	6	120137	Nut Nylock 1/2-13 GR5 PLTD	9					
	7	120138	Nut Nylock 5/8-11 GR5 PLTD	14					
	8	120140	Nut Nylock 3/4-10 GR5 PLTD	2					
	9	120151	Washer Flat 5/8 PLTD	4					
	10	120160	Pin Hair Pin Clip #16	1					
	11	120163	Continuous Thread Bolt 1/2-13 x 6 GR5 PLTD	2					
	12	120164	Pin Clevis 1/2 X 2 PLTD	1					
	13	120238	Tension Spring .4375 x 10-3/4	4					
C	14	120336	Tension Tightner	2					
	15	120376	Spacer 3/4 ID x 2.0625	10					
	16	120387	Adjustment Spacer	1					
	17	121091	Bolt 1/2-13 x 1-1/2 GR5 PLTD	3					
	18	121093	Bolt 1/2-13 x 2 GR5 PLTD	1					
	19	121098	Bolt 1/2-13 x 5-1/2 GR5 PLTD	1					
	20	121130	Bolt 5/8-11 x 4 GR5 PLTD	4					
	21	121776	Bolt 5/8-11 x 2 GR8 YZ PLTD	8					
	22	122159	5 Bar Drawbar Arm Manual Tine Adj. Right	1					
	23	122223	Harrow Pipe, DBH, 10' 5 Bar #1	1					
B	24	122224	Harrow Pipe, DBH, 10' 5 Bar #2	1					
	25	122225	Harrow Pipe, DBH, 10' 5 Bar #3	1					
	26	122226	Harrow Pipe, DBH, 10' 5 Bar #4	1					
	27	122227	Harrow Pipe, DBH, 10' 5 Bar #5	1					
	28	123720	5 Bar Drawbar Arm Left	1					
	29	123812	Linkage Manual Tine Adjust Rear Adjustment Plate	1					
	30	123813	Linkage Manual Tine Adjust Rear Adjustment Plate	1					
	31	125217	10' Stabilizer Bar 5/8 Bolt Mount	1					
	32	125945	Drawbar Harrow Frame Bracket, Left, 8, 10 Tube 3/8 Material	2					
A	33	125946	Drawbar Harrow Frame Bracket, Right, 8, 10 Tube 3/8 Material	2					



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		UNLESS OTHERWISE SPECIFIED:	SCALE: 1:15	NAME	DATE	 DESCRIPTION: 10' 5 Bar Drawbar Section Manual Tine Adjust.		
		DIMENSIONS ARE IN INCHES	DRAWN	Britta	6/2/2016			
		TOLERANCES:	CHECKED					
		FRACTIONAL ±1/8	ENG APPR.					
		ANGULAR: MACH ±2 BEND ±2	MFG APPR.					
		TWO PLACE DECIMAL ±.01	Q.A.			SIZE	PART NUMBER:	REV
		THREE PLACE DECIMAL ±.005	COMMENTS:			B	See Table	
		THIRD ANGLE				WEIGHT: 485.54		
						SHEET 1 OF 1		
		MATERIAL						
		FINISH						
	NEXT ASSY	USED ON						
	APPLICATION		DO NOT SCALE DRAWING					

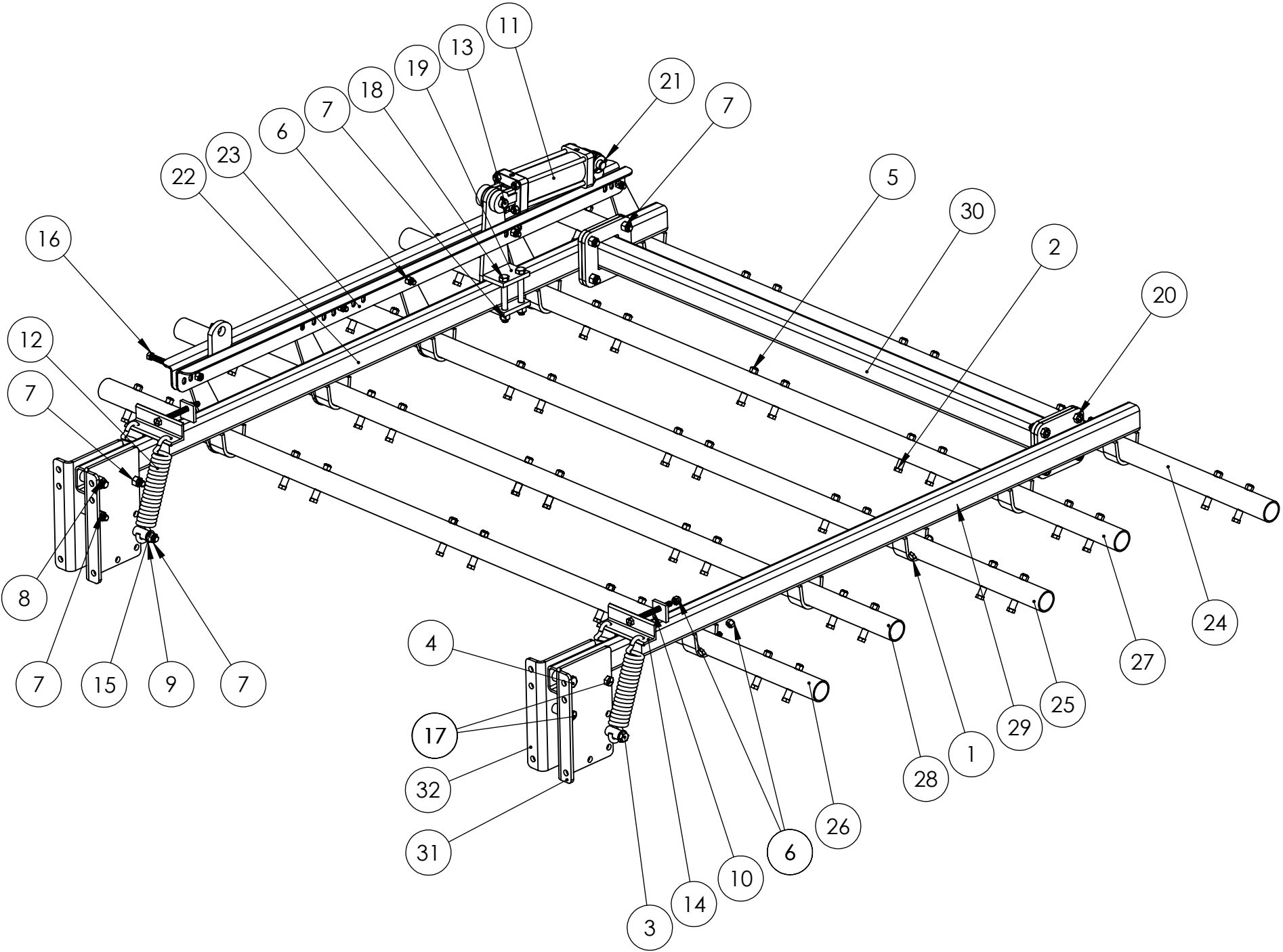
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ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	120092	Bolt 1/2-13 x 3 GR5 PLTD	2
2	120094	1/2" x 3.75" Shoulder Bolt	80
3	120106	Bolt 5/8-11 x 8 GR5 PLTD	2
4	120112	Bolt 3/4-10 x 4 GR5 PLTD	2
5	120136	Nut Nylock 1/2-13 GR5 YELLOW PLTD	80
6	120137	Nut Nylock 1/2-13 GR5 PLTD	9
7	120138	Nut Nylock 5/8-11 GR5 PLTD	16
8	120140	Nut Nylock 3/4-10 GR5 PLTD	2
9	120151	Washer Flat 5/8 PLTD	4
10	120163	Continuous Thread Bolt 1/2-13 x 6 GR5 PLTD	2
11	120174	Cylinder 3 x 6 x 1-1/4 Tie Rod Double Rephasing DBH	1
12	120238	Tension Spring .4375 x 10-3/4	4
13	120333	Cylinder Pin 1 x 3-3/4 3 Usable	2
14	120336	Tension Tightner	2
15	120376	Spacer 3/4 ID x 2.0625	10
16	121093	Bolt 1/2-13 x 2 GR5 PLTD	5
17	121130	Bolt 5/8-11 x 4 GR5 PLTD	4
18	121132	Bolt 5/8-11 x 5 GR5 PLTD	2
19	121520	Hydraulic Tine Adjustment Stationary Ear	1
20	121776	Bolt 5/8-11 x 2 GR8 YZ PLTD	8
21	121807	Cotter Pin 3/16 x 1-1/2	4
22	122160	5 Bar Drawbar Arm Hydraulic Tine Adj. Right	1
23	122180	5 Bar Hydraulic Tine Linkage	1
24	122223	Harrow Pipe, DBH, 10' 5 Bar #1	1
25	122224	Harrow Pipe, DBH, 10' 5 Bar #2	1
26	122225	Harrow Pipe, DBH, 10' 5 Bar #3	1
27	122226	Harrow Pipe, DBH, 10' 5 Bar #4	1
28	122227	Harrow Pipe, DBH, 10' 5 Bar #5	1
29	123720	5 Bar Drawbar Arm Left	1
30	125217	10' Stabilizer Bar 5/8 Bolt Mount	1
31	125945	Drawbar Harrow Frame Bracket, Left, 8, 10 Tube 3/8 Material	2
32	125946	Drawbar Harrow Frame Bracket, Right, 8, 10 Tube 3/8 Material	2



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		UNLESS OTHERWISE SPECIFIED:		SCALE: 1:14	NAME	DATE
		DIMENSIONS ARE IN INCHES		DRAWN	Britta	6/2/2016
		TOLERANCES:		CHECKED		
		FRACTIONAL ±1/8		ENG APPR.		
		ANGULAR: MACH ±2		MFG APPR.		
		BEND ±2		Q.A.		
		TWO PLACE DECIMAL ±.01		COMMENTS:		
		THREE PLACE DECIMAL ±.005				
		THIRD ANGLE				
		MATERIAL				
		FINISH				
NEXT ASSY	USED ON					
APPLICATION		DO NOT SCALE DRAWING				

DESCRIPTION:
10' 5 Bar Drawbar Section Hydraulic Tine Adjust.

SIZE	PART NUMBER:	REV
B	See Table	

WEIGHT: 555.38 SHEET 1 OF 1

D

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B

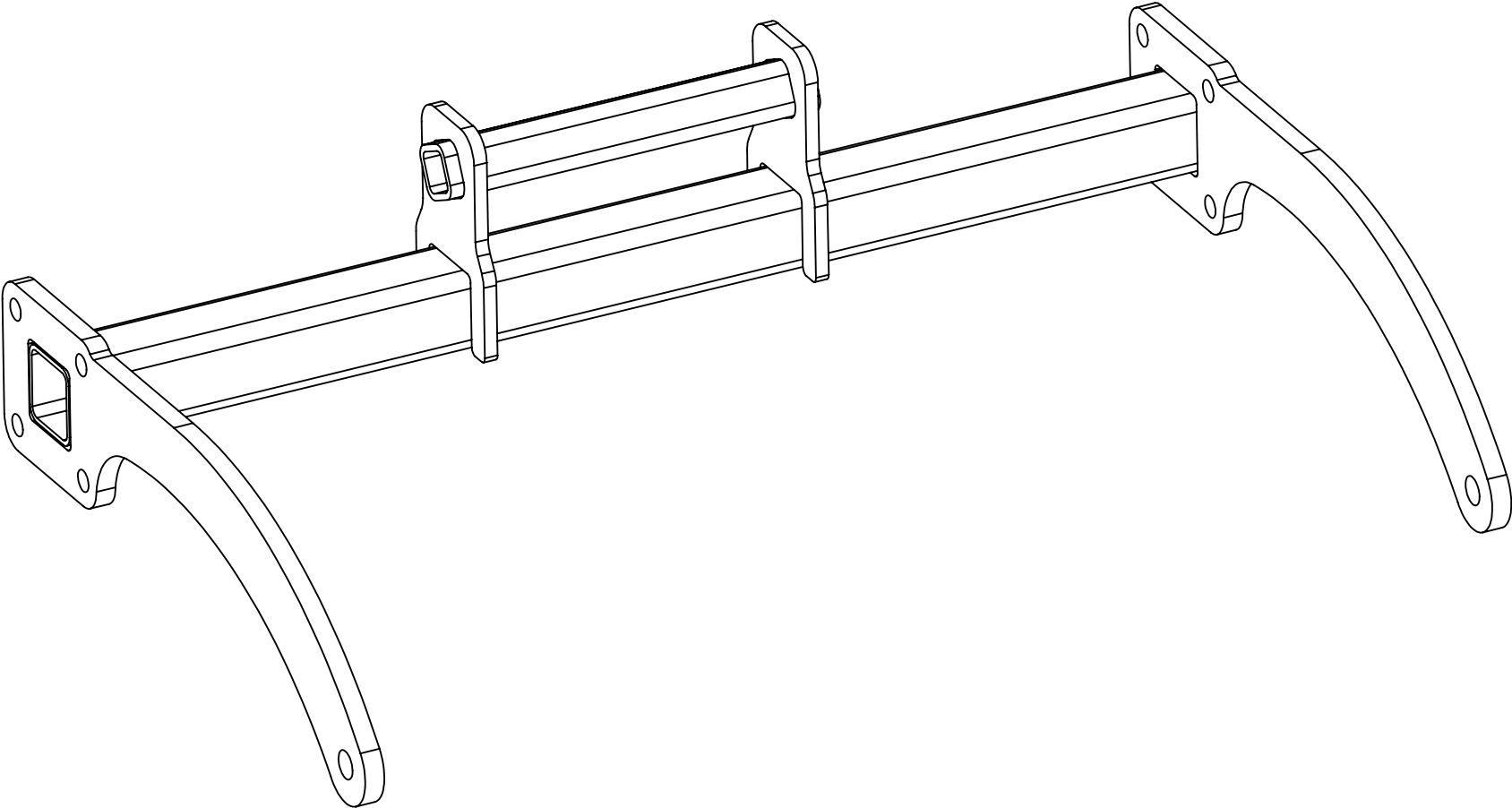
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PART NUMBER	DESCRIPTION
124077	6' Drawbar Section Stabilizer Bar Rolling Basket Mount
124078	8' Drawbar Section Stabilizer Bar Rolling Basket Mount
124079	10' Drawbar Section Stabilizer Bar Rolling Basket Mount

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UNLESS OTHERWISE SPECIFIED:
DIMENSIONS ARE IN INCHES
TOLERANCES:
FRACTIONAL $\pm 1/8$
ANGULAR: MACH ± 2 BEND ± 2
TWO PLACE DECIMAL $\pm .01$
THREE PLACE DECIMAL $\pm .005$
THIRD ANGLE



MATERIAL

FINISH

DO NOT SCALE DRAWING

SCALE: 1:1

DRAWN

CHECKED

ENG APPR.

MFG APPR.

Q.A.

COMMENTS:

NAME

DATE

BRITTA

4-24-2015



DESCRIPTION:
5/8" Bolt Mount Stabilizer
Bars with Basket Mount

SIZE

PART NUMBER:

REV

B See Table

WEIGHT: 79.98

SHEET 1 OF 1

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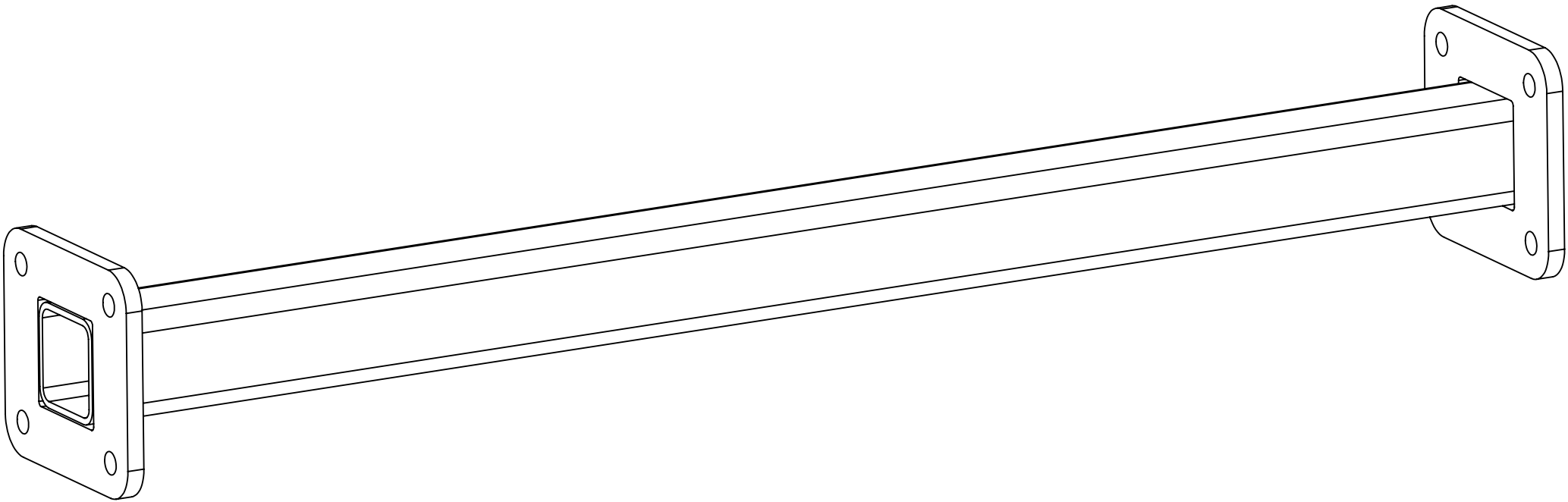
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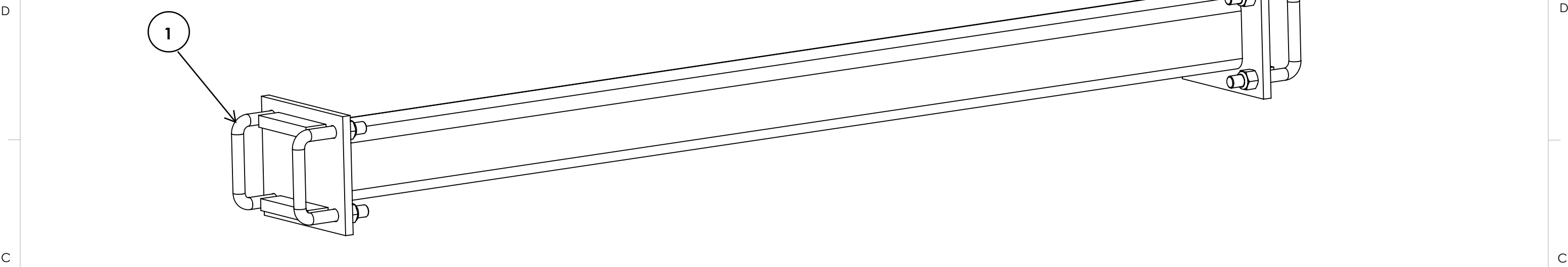


PART NUMBER	DESCRIPTION
125215	6' Drawbar Section Stabilizer Bar 5/8 Bolt Mount
125216	8' Drawbar Section Stabilizer Bar 5/8 Bolt Mount
125217	10' Drawbar Section Stabilizer Bar 5/8 Bolt Mount

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		UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ±1/8 ANGULAR: MACH ±2 BEND ±2 TWO PLACE DECIMAL ±.01 THREE PLACE DECIMAL ±.005 THIRD ANGLE  MATERIAL FINISH DO NOT SCALE DRAWING	SCALE: 1:1	NAME	DATE	 DESCRIPTION: 5/8" Bolt Mount Stabilizer Bar without Baskets SIZE PART NUMBER: REV B See Table WEIGHT: 34.70 SHEET 1 OF 1
			DRAWN	Britta	7/9/2015	
			CHECKED			
			ENG APPR.			
			MFG APPR.			
			Q.A.			
			COMMENTS:			
NEXT ASSY	USED ON					
APPLICATION						



PART NUMBER	DESCRIPTION
120352	6' Drawbar Section Stabilizer Bar U-Bolt Mount
120353	8' Drawbar Section Stabilizer Bar U-Bolt Mount
120354	10' Drawbar Section Stabilizer Mount

Secure with:

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	120121	U-Bolt 1/2-13 x 3 x x-1/4 Square Bend PLTD 1-/8 Thread	4
2	120137	Nut Nylock 1/2-13 GR5 PLTD	8

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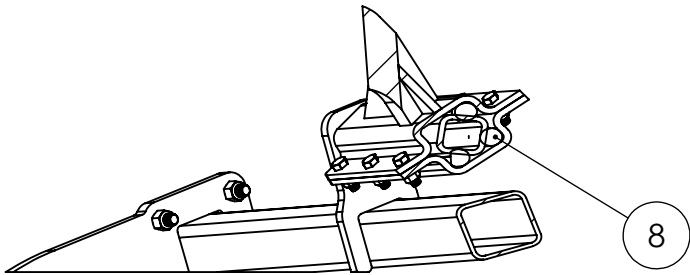
		UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ±1/8 ANGULAR: MACH ±2 BEND ±2 TWO PLACE DECIMAL ±.01 THREE PLACE DECIMAL ±.005 THIRD ANGLE  MATERIAL FINISH DO NOT SCALE DRAWING	SCALE: 1:1	NAME	DATE	 DESCRIPTION: U-Bolt Mount Stabilizer Bars SIZE PART NUMBER: REV B See Table WEIGHT: 36.09 SHEET 1 OF 1
			DRAWN			
			CHECKED			
			ENG APPR.			
			MFG APPR.			
			Q.A.			
			COMMENTS:			
NEXT ASSY	USED ON					
APPLICATION						

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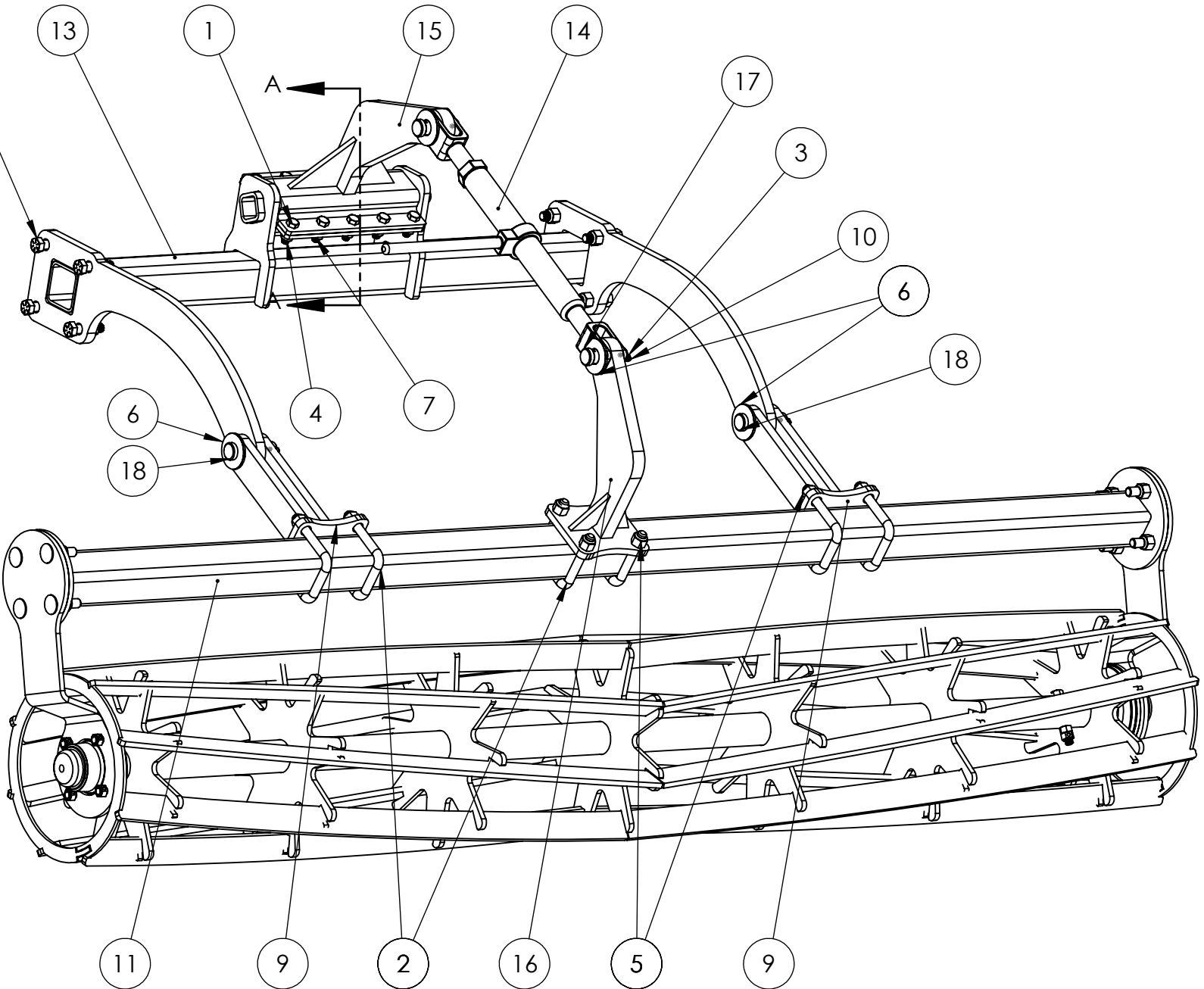
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SECTION A-A

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	120088	Bolt 1/2-13 x 1-1/2 GR8 PLTD	10
2	120128	U-Bolt 5/8-11 x 3 x 4-1/2 SQR Bend PLTD	6
3	120131	NUut Nylock 1/4-20 GR5 PLTD	4
4	120137	Nut Nylock 1/2-13 GR5 PLTD	10
5	120138	Nut Nylock 5/8-11 GR5 PLTD	20
6	120154	Washer 1" Flat USS	4
7	120216	Clamp Coulter Arm 12"	1
8	120317	Urethane Rod	8
9	120351	Rolling Basket Clevis Adjustment Mount Drawbar Harrow	2
10	121015	Bolt 1/4-20 x 1-1/2 GR5 PLTD	4
11	122650	8' Rolling Basket Flat Bar	1
12	123867	Bolt 5/8-11 x 2-1/2 GR8 YZ PLTD	8
13	124078	8' Drawbar Section Stabilizer Bar Rolling Basket Mount	1
14	124191	Ratchet Jack 20-28 Adjustable 1" Pin	1
15	124327	Coulter Harrow Rolling Basket Cushion Top Plate	1
16	124335	Coulter Harrow Rolling Basket Ear Plate	1
17	125880	Clevis Pin 1" x 3" PLTD	2
18	126032	Clevis Pin 1" x 3-1/2" PLTD	2



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UNLESS OTHERWISE SPECIFIED:

DIMENSIONS ARE IN INCHES

TOLERANCES:

FRACTIONAL $\pm 1/8$

ANGULAR: MACH ± 2 BEND ± 2

TWO PLACE DECIMAL $\pm .01$

THREE PLACE DECIMAL $\pm .005$

THIRD ANGLE



MATERIAL

FINISH

DO NOT SCALE DRAWING

SCALE: 1:10

DRAWN	NAME	DATE
CHECKED	Britta	1/28/2016
ENG APPR.		
MFG APPR.		
Q.A.		
COMMENTS:		

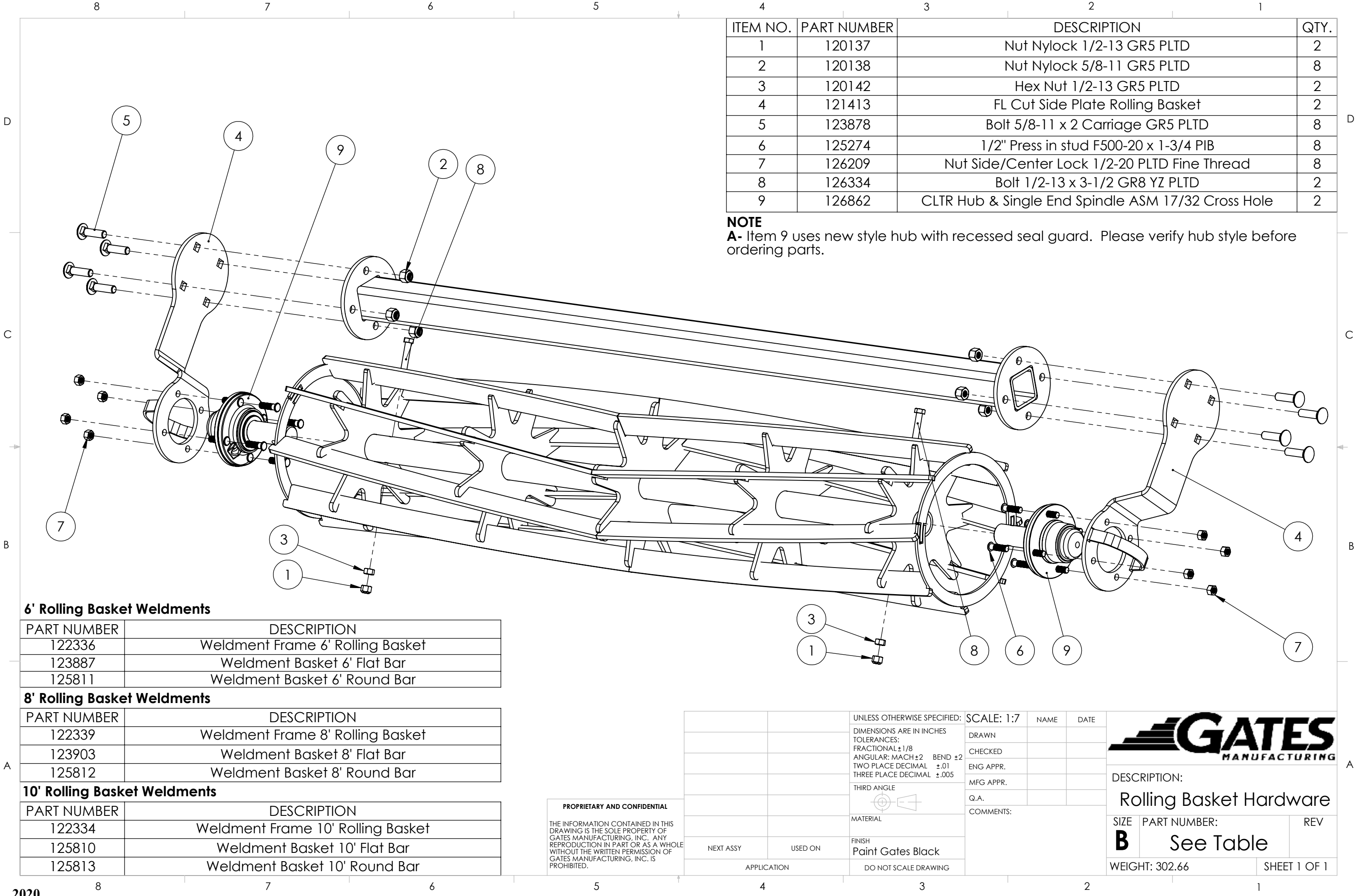


DESCRIPTION:

Basket Mounting Parts

SIZE	PART NUMBER:	REV
B	See Table	

WEIGHT: 574.97 SHEET 1 OF 1



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	120137	Nut Nylock 1/2-13 GR5 PLTD	2
2	120138	Nut Nylock 5/8-11 GR5 PLTD	8
3	120142	Hex Nut 1/2-13 GR5 PLTD	2
4	121413	FL Cut Side Plate Rolling Basket	2
5	123878	Bolt 5/8-11 x 2 Carriage GR5 PLTD	8
6	125274	1/2" Press in stud F500-20 x 1-3/4 PIB	8
7	126209	Nut Side/Center Lock 1/2-20 PLTD Fine Thread	8
8	126334	Bolt 1/2-13 x 3-1/2 GR8 YZ PLTD	2
9	126862	CLTR Hub & Single End Spindle ASM 17/32 Cross Hole	2

NOTE
A- Item 9 uses new style hub with recessed seal guard. Please verify hub style before ordering parts.

6' Rolling Basket Weldments

PART NUMBER	DESCRIPTION
122336	Weldment Frame 6' Rolling Basket
123887	Weldment Basket 6' Flat Bar
125811	Weldment Basket 6' Round Bar

8' Rolling Basket Weldments

PART NUMBER	DESCRIPTION
122339	Weldment Frame 8' Rolling Basket
123903	Weldment Basket 8' Flat Bar
125812	Weldment Basket 8' Round Bar

10' Rolling Basket Weldments

PART NUMBER	DESCRIPTION
122334	Weldment Frame 10' Rolling Basket
125810	Weldment Basket 10' Flat Bar
125813	Weldment Basket 10' Round Bar

PROPRIETARY AND CONFIDENTIAL

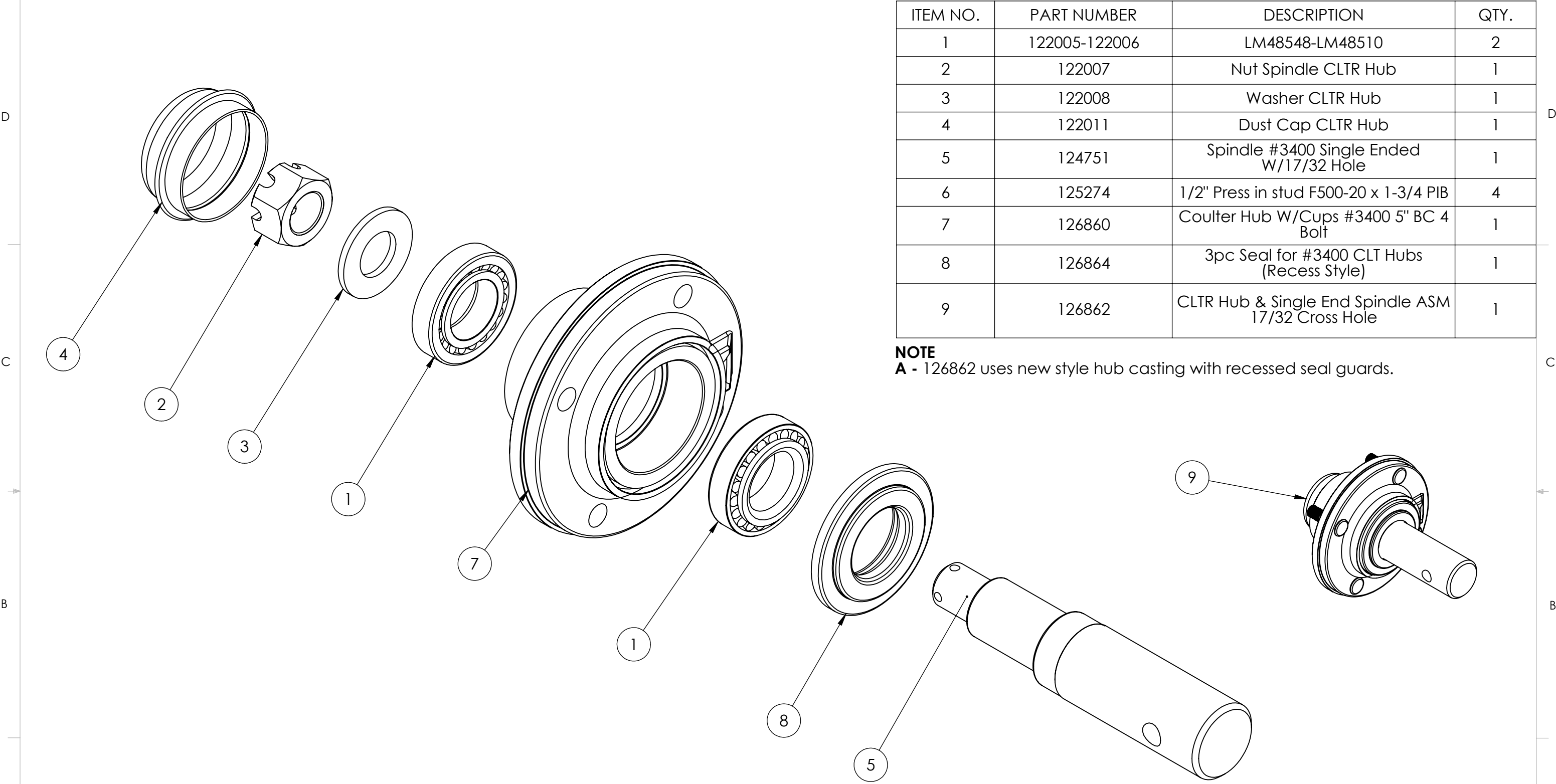
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		UNLESS OTHERWISE SPECIFIED:		SCALE: 1:7	NAME	DATE
		DIMENSIONS ARE IN INCHES		DRAWN		
		TOLERANCES:		CHECKED		
		FRACTIONAL ±1/8		ENG APPR.		
		ANGULAR: MACH ±2 BEND ±2		MFG APPR.		
		TWO PLACE DECIMAL ±.01		Q.A.		
		THREE PLACE DECIMAL ±.005		COMMENTS:		
		THIRD ANGLE				
		MATERIAL				
		FINISH				
		Paint Gates Black				
NEXT ASSY	USED ON					
APPLICATION		DO NOT SCALE DRAWING				

DESCRIPTION:
Rolling Basket Hardware

SIZE B	PART NUMBER: See Table	REV
------------------	----------------------------------	-----

WEIGHT: 302.66 SHEET 1 OF 1



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	122005-122006	LM48548-LM48510	2
2	122007	Nut Spindle CLTR Hub	1
3	122008	Washer CLTR Hub	1
4	122011	Dust Cap CLTR Hub	1
5	124751	Spindle #3400 Single Ended W/17/32 Hole	1
6	125274	1/2" Press in stud F500-20 x 1-3/4 PIB	4
7	126860	Coulter Hub W/Cups #3400 5" BC 4 Bolt	1
8	126864	3pc Seal for #3400 CLT Hubs (Recess Style)	1
9	126862	CLTR Hub & Single End Spindle ASM 17/32 Cross Hole	1

NOTE
A - 126862 uses new style hub casting with recessed seal guards.

PROPRIETARY AND CONFIDENTIAL

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		UNLESS OTHERWISE SPECIFIED:	SCALE: 1:2	NAME	DATE
		DIMENSIONS ARE IN INCHES	DRAWN	SCOTT	10/15/2012
		TOLERANCES:	CHECKED		
		FRACTIONAL ±1/8	ENG APPR.		
		ANGULAR: MACH±2 BEND ±2	MFG APPR.		
		TWO PLACE DECIMAL ±.01	Q.A.		
		THREE PLACE DECIMAL ±.005	COMMENTS:		
		THIRD ANGLE			
		MATERIAL			
		FINISH			
NEXT ASSY	USED ON				
APPLICATION		DO NOT SCALE DRAWING			

DESCRIPTION:
CLTR HUB & SINGLE END SPINDLE
ASM 17/32 CROSS HOLE

SIZE

B

PART NUMBER:

126862

REV

A-02

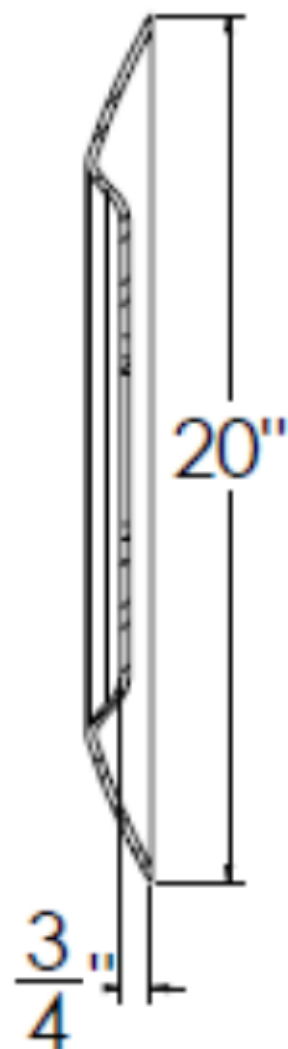
WEIGHT: 13.250

SHEET 1 OF 1



124476 Soil Rebel™

Soil Rebel is a trademark of Ingersoll
Tillage Group

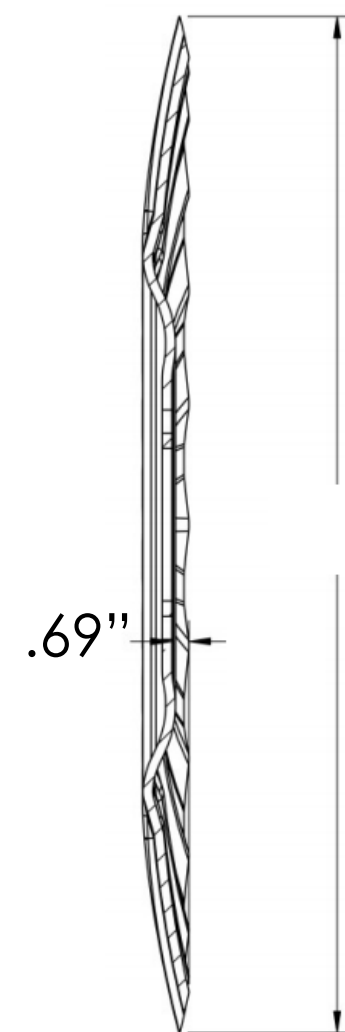


- ◊ Aggressive wave profile is ideal for sizing and mixing residue with soil
- ◊ 20" diameter
- ◊ 25 wave concave coulters
- ◊ 3/4" offset
- ◊ 5mm thick
- ◊ Shallow concavity produces:
 - ◊ High speed operation
 - ◊ Less soil smearing
 - ◊ Reduced compaction
- ◊ Ideal for shallow, high-speed vertical tillage applications



127291 SoilRazor™

SoilRazor is a trademark of Ingersoll
Tillage Group



- ◊ Saw tooth design allows for excellent residue sizing
- ◊ Self-sharpening cutting edge as blade wears
- ◊ Aggressive blade design
- ◊ Long life
- ◊ 20" diameter