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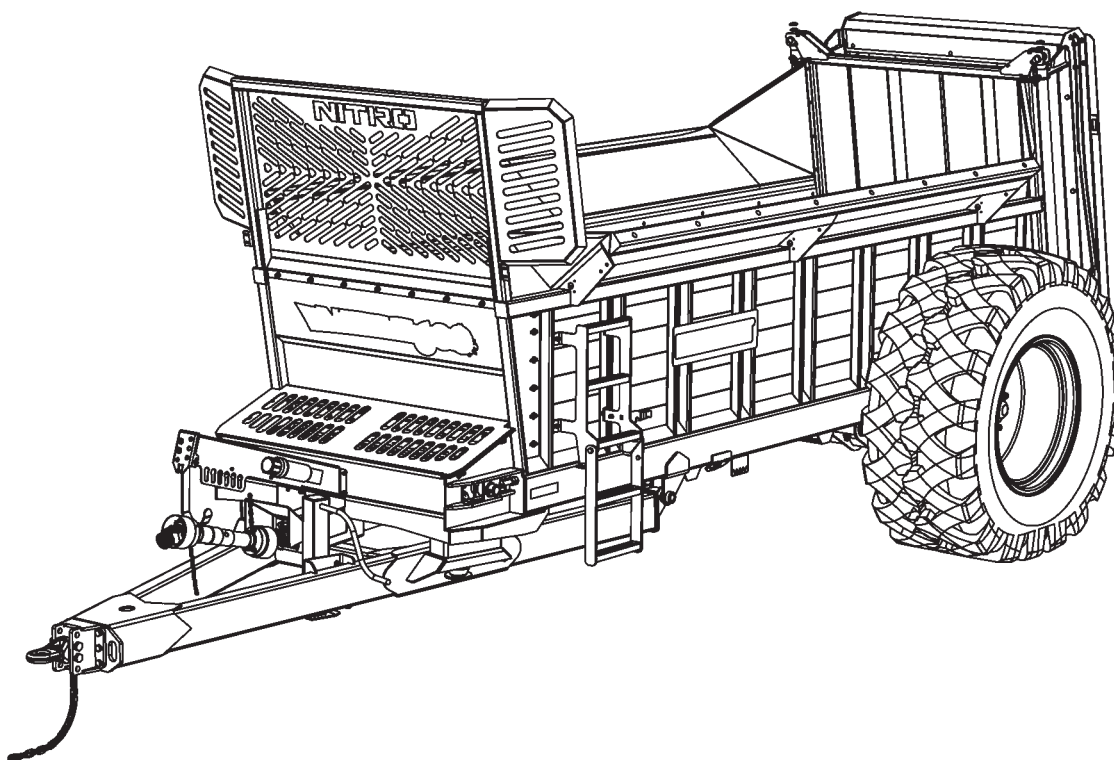
Parts Manual

Keep this manual with the machine at all times.



Manure Spreader

Nitro 600



Parts Manual

Thank you for choosing the Tubeline Nitro 600 Manure Spreader. Our hope is that it will give you many years of productive service. This machine is designed to spread various types of manure evenly over a wide area.

Warranty and Limitation of Liability

All equipment is sold subject to mutual agreement that it is warranted by the company to be free from defects of materials and workmanship. But the company shall not be liable for special, indirect or consequential, damages of any kind under this contract or otherwise. The company's liability shall be limited exclusively to replacing or repairing without charge, at its factory or elsewhere, at its discretion.

Any material, or workmanship defects which become apparent within one year from the date on which the equipment was purchased, and the company shall have no liability for damages of any kind. The buyer by the acceptance of the equipment will assume all liability for any damages, which may result from the use or misuse by his employees or others.

Nitro Apron Chain Warranty



Tubeline Manufacturing Ltd offers a limited lifetime non-transferable warranty to the original purchaser of a Nitro manure spreader. This warranty applies to chain link breakage and covers parts only. Should a connecting link fail, only it will be replaced. However, if a standard link breaks the complete chain will be provided. Freight and labor to install is the responsibility of the purchaser and is not covered under the terms of the limited warranty.

Tubeline Manufacturing Ltd reserves the right to request the return of the failed chain.

Warranty coverage is null and void unless Warranty Registration form has been completely filled in and is on file at Tubeline Manufacturing Ltd.

Manuals

Parts manuals are printed and shipped with machines as they leave the manufacturer. Your machine may include parts or features not yet included in the initially shipped manual. The latest manual version can be found at www.tubeline.ca/support.php. Tubeline reserves the right to update and change manuals as seen fit. Dealers are informed of any pressing changes/ modifications. They can help you with any questions regarding replacement parts.

Serial Number

The implement serial number is located on the front of the frame. This number helps us to track changes and improvements and must be mentioned when ordering parts or requesting service. For your convenience, a space has been provided inside the front cover of this manual to record the serial number, model number, purchase date, and dealer name.

Model No: _____ N600 _____

Serial No: _____

Date Purchased: _____

Dealer Name: _____

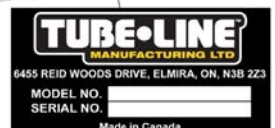
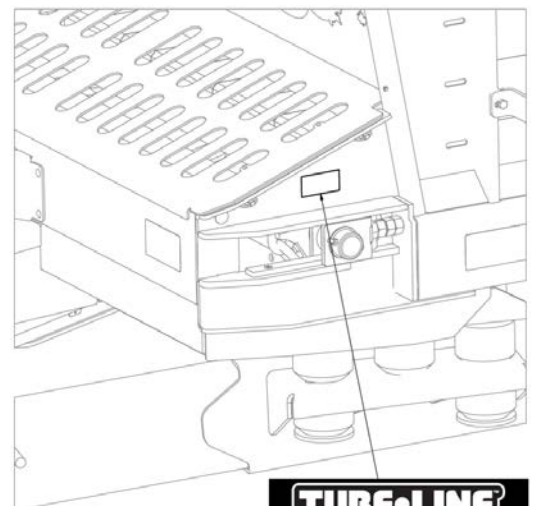


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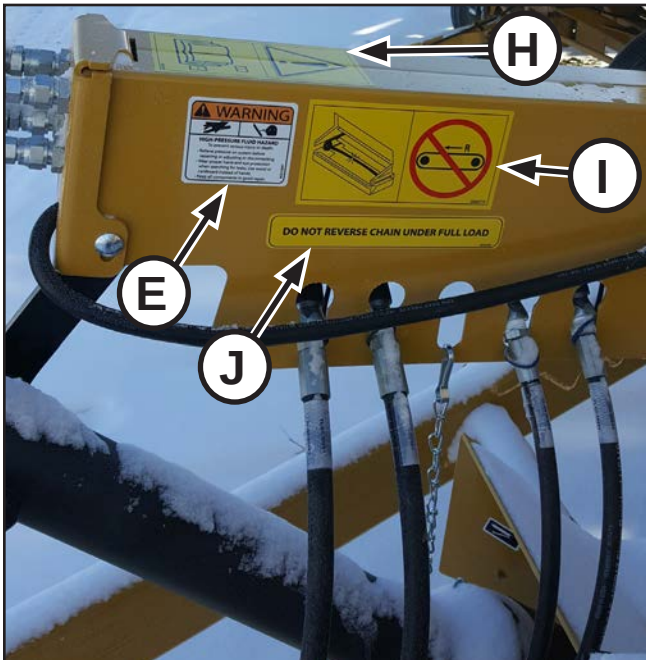
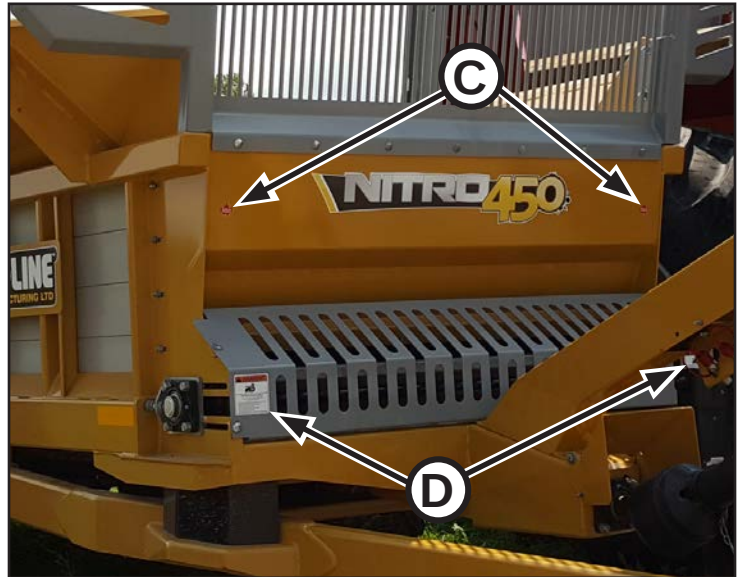
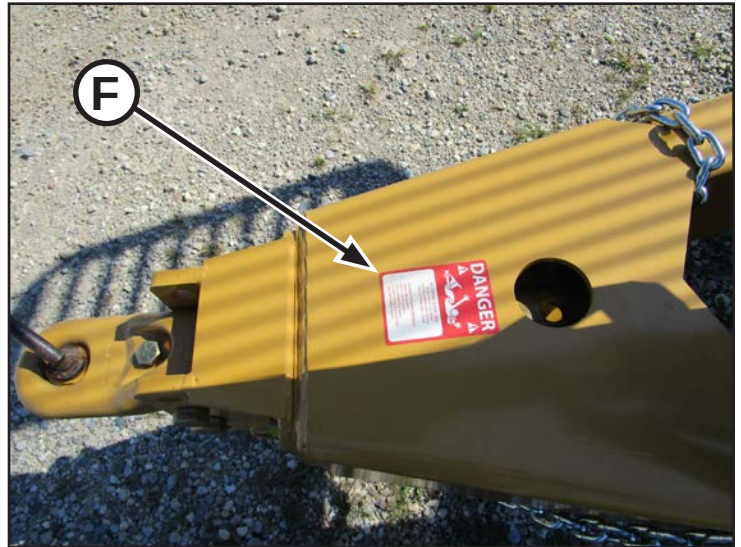
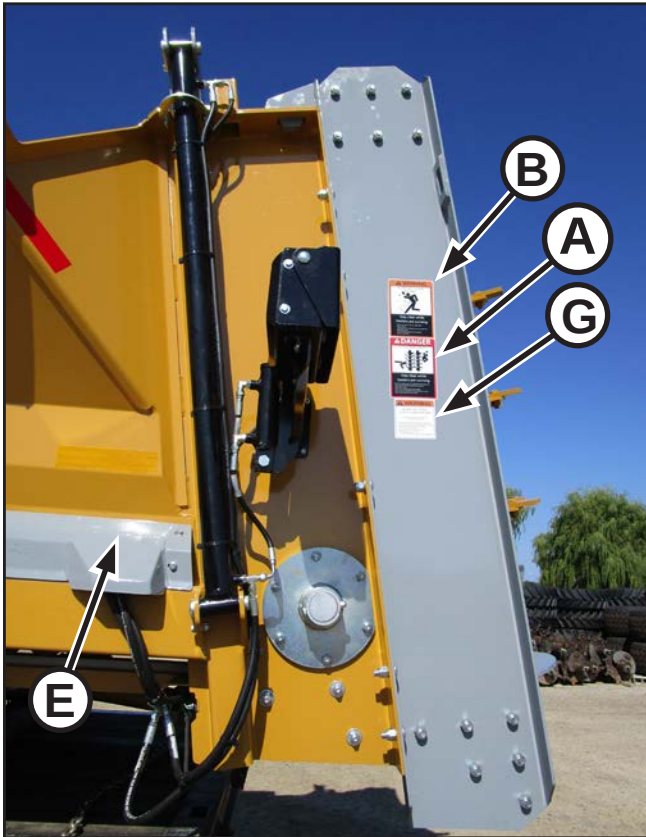
Safety Sign Locations

The types of safety signs and locations on the equipment are shown in the illustrations that follow. Good safety requires that you familiarize yourself with the various safety signs, the types of warning, and the area, or proper function related to that area, that requires your safety awareness.

Examples only - Actual decals may differ in text and graphic representation.

REMEMBER

If safety signs have been damaged, removed, become illegible or parts replaced without safety signs, new safety signs must be applied. New safety signs are available from your authorized dealer.



Safety Decals

Item: A

Part No: DE39395



Item: B

Part No: DE39396



Item: C

Part No: DECANADA



Item: D

Part No: DE23836



Item: H Part No: DE42784

See Operators Manual for decal explanation.

Item: E

Part No: DE23838



Item: F

Part No: DE39397



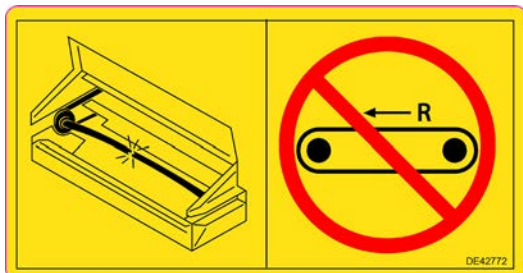
Item: G

Part No: DE23845



Item: I Part No: DE42772

Reversing apron chain while spreader is fully loaded will cause front apron shaft breakage.

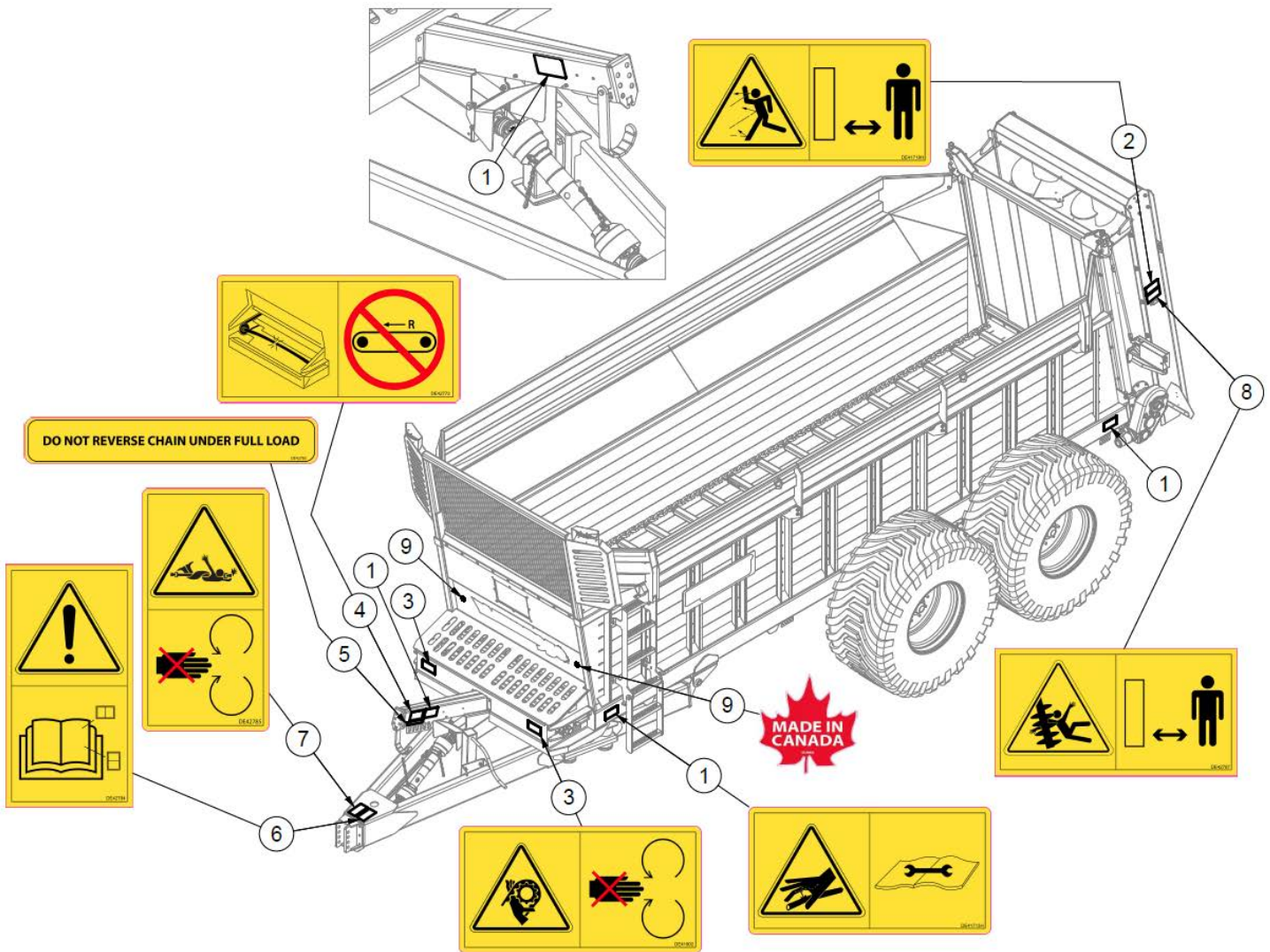


Item: J Part No: DE42782

Reversing apron chain while spreader is fully loaded will cause front apron shaft breakage.



ISO Safety Decal Locations



ITEM	QTY	PART NUMBER	DESCRIPTION
1	6	DE41713H	ISO Decal - High Pressure Fluid Horizontal
2	2	DE41718H	ISO Decal - Thrown Object Horizontal
3	2	DE41902	ISO Decal - Chain Entanglement
4	1	DE42772	ISO Decal - Nitro Reverse Chain
5	1	DE42783	Nitro Reverse Chain Text Decal
6	1	DE42784	ISO Decal - Read OM Decals Section
7	1	DE42785	ISO Decal - PTO Entanglement
8	2	DE42787	ISO Decal - Nitro Beater Entanglement
9	2	DECANADA	Decal Made In Canada

ISO Safety Decals



Item 1: DE41713H

Do not use hand to check for hydraulic leaks, alternatively use a piece of cardboard.



Item 2: DE41718H

Keep clear of machine while operating. Serious injury may occur.



Item 7: DE42785

Do not use hand to check for hydraulic leaks, alternatively use a piece of cardboard.

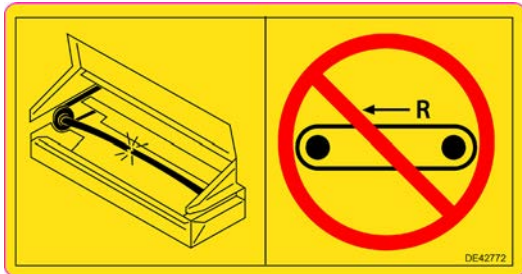


Item 3: DE41902

Keep hands clear of rotating parts while machine running. Do not operate without shielding in place. Do not wear loose clothing while operating.

Item 8: DE42787

Stand clear of rotating beaters to avoid entanglement. Serious injury or death hazard.



Item 4: DE42772

Reversing apron chain while spreader is fully loaded will cause front apron shaft breakage.



Item 9: DECANADA

Manufacturer's country of origin.



Item 5: DE42783

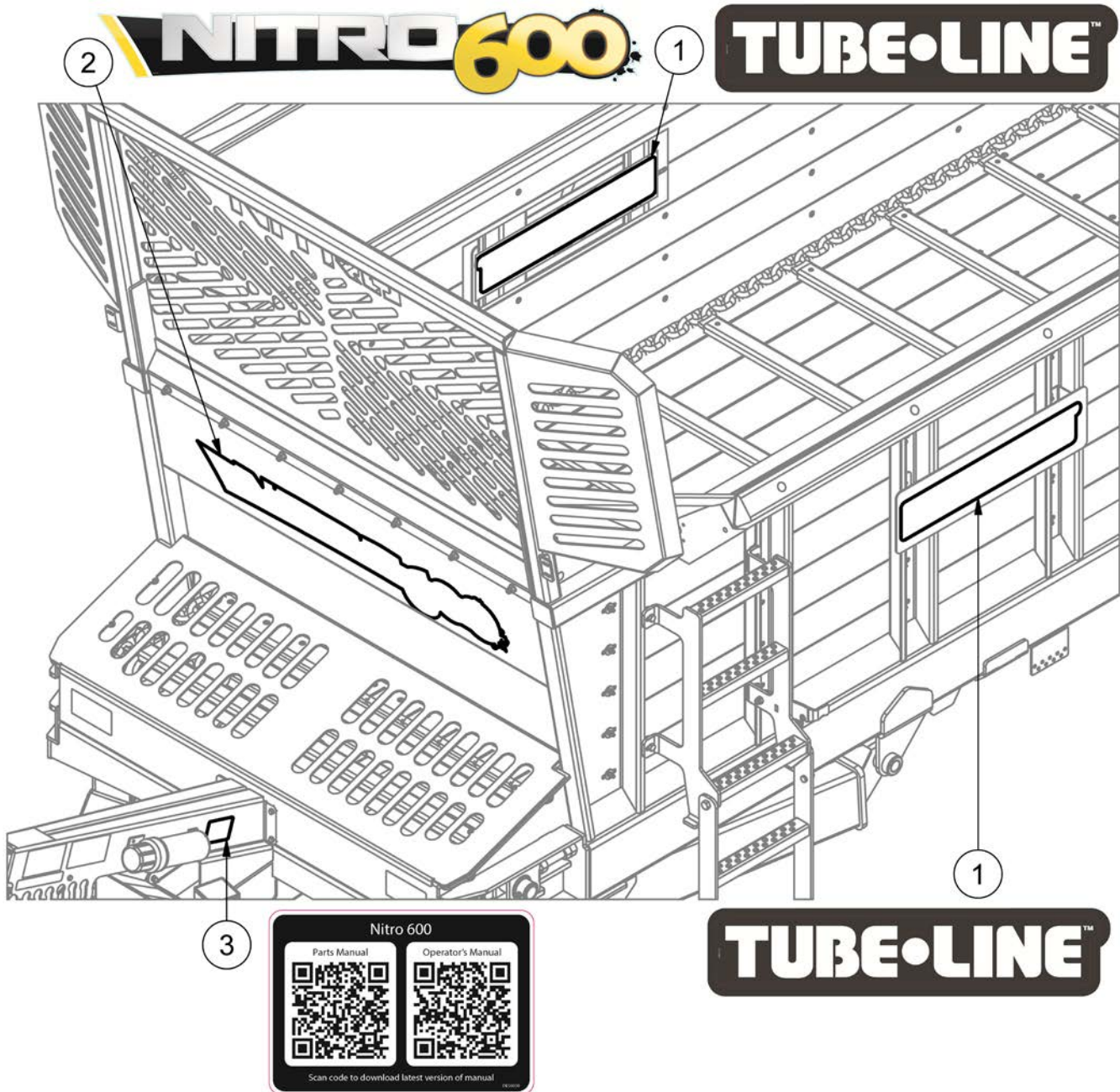


Item 6: DE42784

Read Operator's manual decal section to understand safety decals.



Model Decal Locations

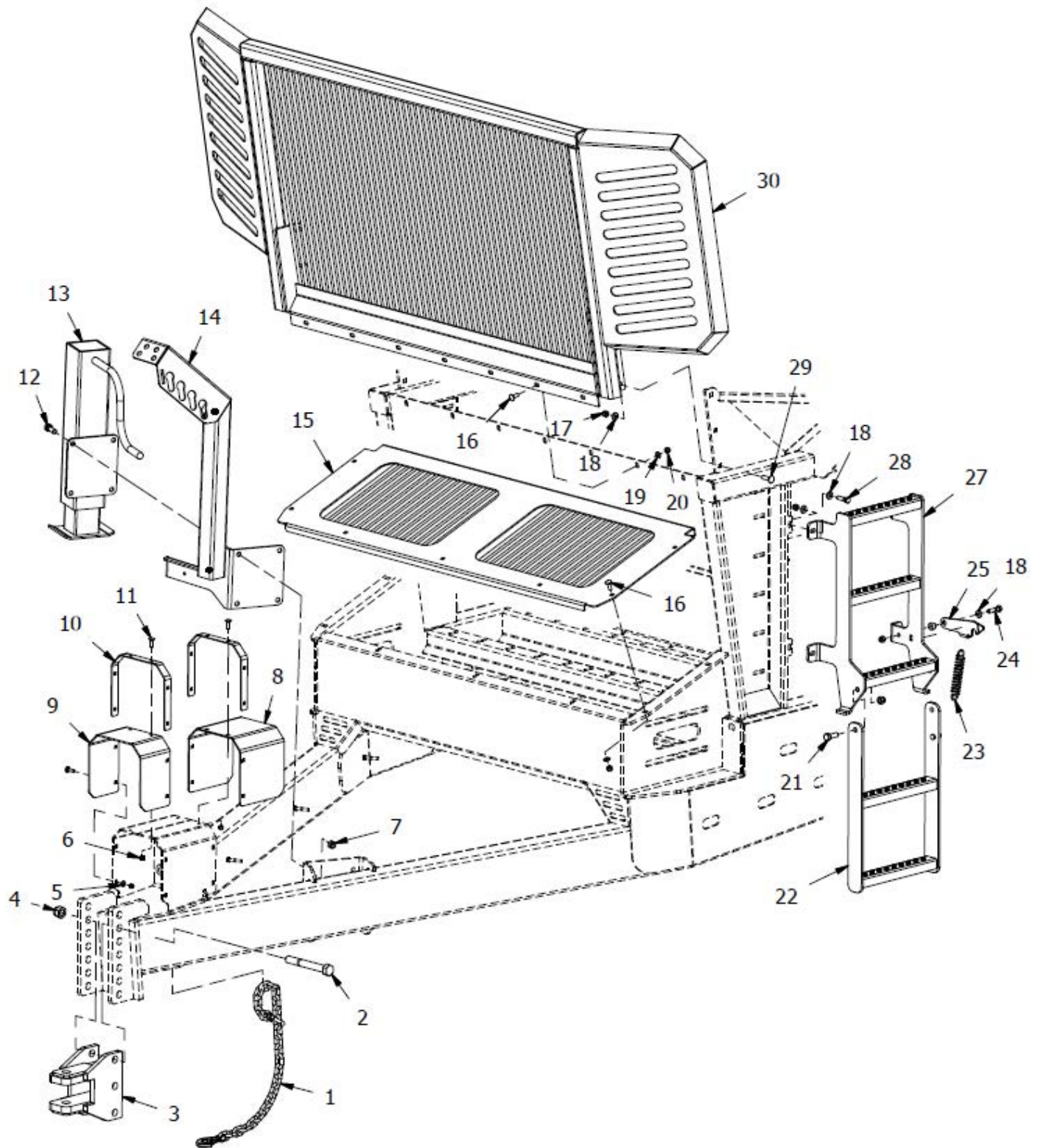


ITEM	QTY	PART NUMBER	DESCRIPTION
1	2	DE30837	Tubeline Decal 7.25" x 30"
2	1	DE31524	Nitro 600 Model Decal
3	1	DE50039	600 QR Code Decal

Section 2 - Parts Breakdowns & Lists

Illustrations may differ slightly from actual machine.

Front Components - Up to SN 14NS213

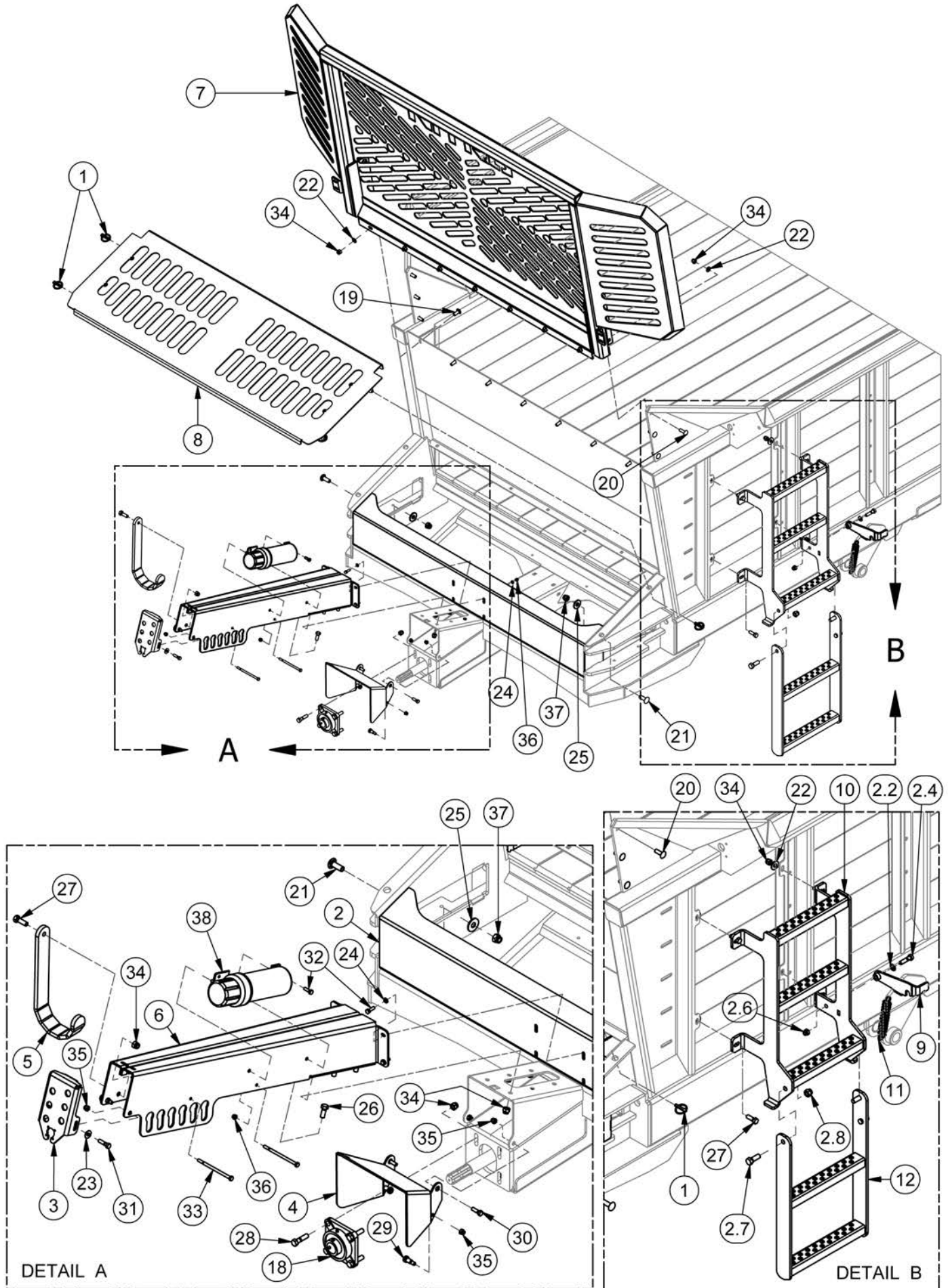


Front Components - Up to SN 14NS213

**Purchase two 4"x4"x16' pressure treated posts from your local hardware store and trim as needed.*

ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	25262	Safety Chain
2	2	HB 1-8X8.0 Z5	Hex Bolt 1"-8 x 8" Grade 5 Zinc Plated Hex Cap Screw NC
3	1	30826	Hitch Base
	1	30825	Clevis
	1	30884	Hitch Cap Screw
	1	30669	Hitch Locknut
4	2	LN 1.0 N	Locknuts - 1-8 Zinc Plated Nylon Insert
5	8	FW 3/8	Flatwasher Plated, 3/8" Zinc Plated USS (2984)
6	12	LN 3/8 N	Locknuts - 3/8-16 Zinc Plated Nylon Insert Lock Nut
7	4	LN 5/8 N	Locknut - 5/8-11 Zinc Plated Nylon Insert Lock Nut
8	1	600-819	Rubber PTO Shield
9	2	700-047	Rubber PTO Shield
10	2	700-048	Front Shield Hold-down
11	12	CB 3/8-16X1.1/4 Z5	Carriage Bolt - 3/8"-16 x 1-1/4" Zinc Finish Grade 5 Round Head
12	4	HB 5/8-11X2.0 Z5	Hex Bolt 5/8-11 x 2 Grade 5 Zinc Plated Hex Cap Screw NC
13	1	30850	12000 lbs Jack
14	1	450-129	Hose Suspension Arm
15	1	600-317	Front Apron Drive Cover
16	14	CB 7/16-14X1.1/4Z5	Carriage Bolt - 7/16-14 x 1 1/4" Grade 5 Zinc
17	6	LN 1/2 N	Locknuts - 1/2-13 Zinc Plated Nylon Insert Lock Nut
18	6	FW 1/2	Flatwasher - 1/2" Zinc Plated USS (1096)
19	14	FW 7/16	Flatwasher - 7/16" Zinc Plated USS (1620)
20	14	LN 7/16	Center Locknuts - 7/16-14 Top Lock Nut
21	2	HB 5/8-11X1.3/4 Z5	Hex Bolt - 5/8"-11 x 1-3/4" Grade 5 Zinc Plated Hex Cap Screw
22	1	700-608	Lower Ladder Section
23	1	700-127	Spring
24	1	HB 1/2-13X2.0 Z5	Hex Bolt 1/2-13 x 2" Grade 5 Zinc Plated Hex Cap Screw NC
25	1	35389	Ladder Latch
27	1	600-323	Top Ladder Section
28	4	HB 1/2-13X1.3/4 Z5	Hex Bolt Plated - 1/2"-13 x 1-3/4" Zinc Finish SAE J429 Gr. 5 NC
29	6	CB 1/2-13X1.3/4 Z5	Carriage Bolt Zinc
30	1	600-316	Stone Shield Guard

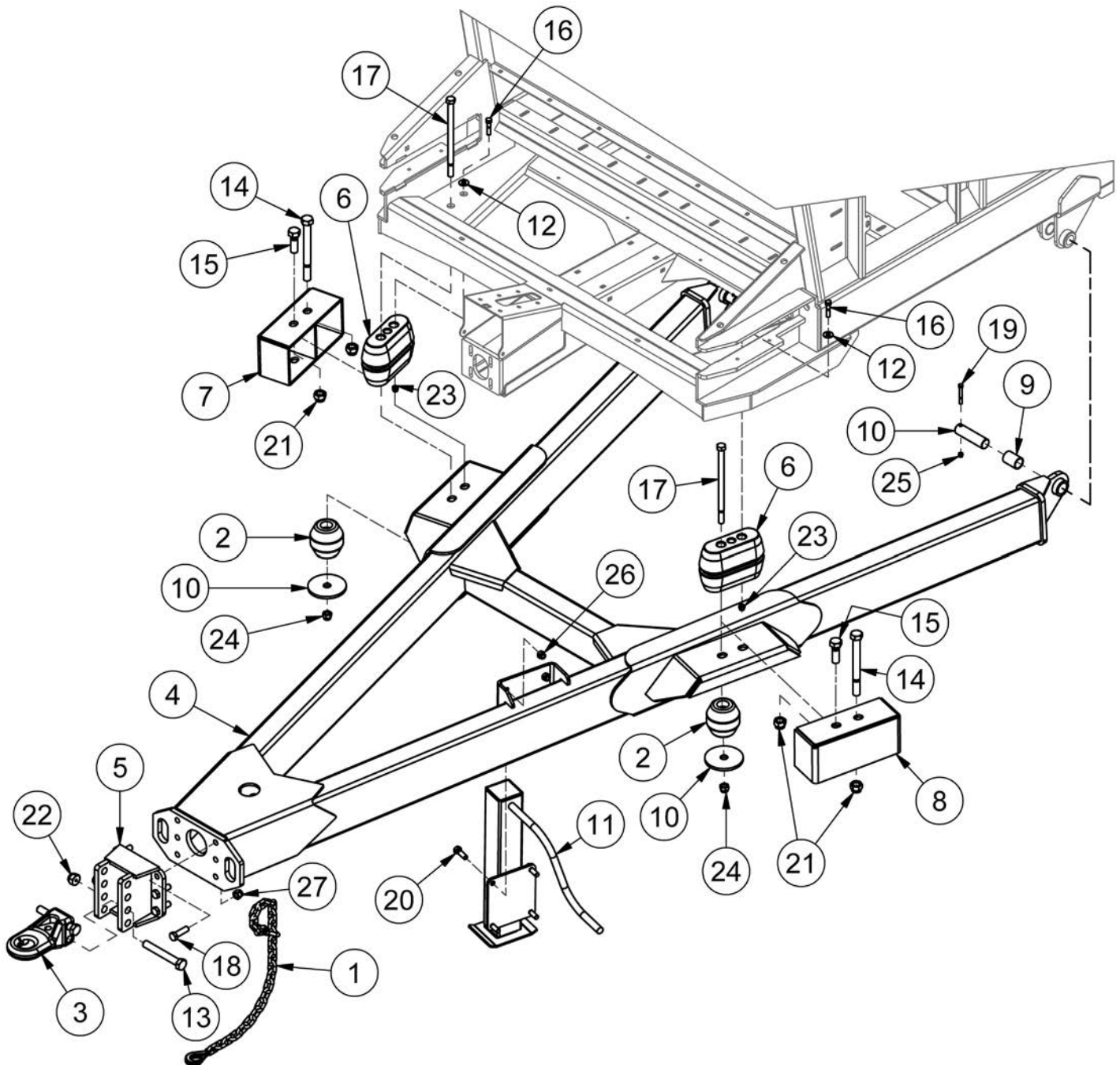
Front Components - SN 15NS201 to Current



Front Components - SN 15NS201 to Current

ITEM	QTY	PART NUMBER	DESCRIPTION
1	4	28940	.375 Snap Ring
2	1	31135	Lower Front Cover
3	1	35425	Hose Mount
4	1	35430	Shield Mount
5	1	35754	PTO Holder
6	1	35422	Hose Extention Bracket
7	1	600-316	Stone Guard Shield
8	1	600-317	Front Cover
9	1	35389	Ladder Latch
10	1	600-323	Top Ladder Section
11	1	700-127	Ladder Spring
12	1	700-608	Bottom Ladder Section
2.2	1	FW 1/2	Flatwasher - 1/2" Zinc Plated USS
2.4	1	HB 1/2-13X2 Z5	Hex Bolt 1/2-13x2 Grade 5 Zinc Plated Hex Cap Screw
2.6	1	LN 1/2 N	LN 1/2-13 Zinc Plated Nylon Insert Lock Nut
2.7	2	HB 5/8-11X1.75 Z5	Hex Bolt 5/8-11x1 3/4 Grade 5 Zinc Plated Hex Cap Screw
2.8	2	LN 5/8 N	LN 5/8-11 Zinc Plated Nylon Insert Lock Nut
18	1	BEA UCF208-24	Flange Block, UCF208-24 1.38 " dia. National 4-Bolt
19	7	CB1/2-13X1.25CZ5	Carriage Bolt - 1/2-13 x 1 1/4" Grade 5 Zinc
20	6	CB1/2-13X1.5CZ5	Carriage Bolt - 1/2-13 x 1 1/2" Grade 5 Zinc
21	2	CB5/8-11X1.75CZ5	Carriage Bolt - 5/8-11 x 1 3/4" Grade 5 Zinc
22	17	FW 1/2	Flatwasher - 1/2" Zinc Plated USS
23	2	FW 3/8	Flatwasher - 3/8" Zinc Plated USS
24	8	FW 5/16	Flatwasher - 5/16" Zinc Plated USS
25	6	FW 5/8	Flatwasher - 5/8" Zinc Plated USS
26	6	HB1/2-13X1.25Z5	Hex Bolt 1/2-13x1 1/4 Grade 5 Zinc Plated Hex Cap Screw
27	5	HB1/2-13X1.5Z5	Hex Bolt 1/2-13x1 1/2 Grade 5 Zinc Plated Hex Cap Screw
28	4	HB1/2-13X2Z5	Hex Bolt 1/2-13x2 Grade 5 Zinc Plated Hex Cap Screw
29	2	SHSS1/2X3/4X3/8-16Z	Socket Head Shoulder Screws - 1/2 Shldr x 3/4 x 3/8-16
30	10	HB3/8-16X1.25Z5	Hex Bolt 3/8-16x1 1/4 Grade 5 Zinc Plated Hex Cap Screw
31	2	HB3/8-16X1.5Z5	Hex Bolt 3/8-16x1 1/2 Grade 5 Zinc Plated Hex Cap Screw
32	6	HB5/16-18X1Z5	Hex Bolt 5/16-18x1 Grade 5 Zinc Plated Hex Cap Screw
33	2	HB5/16-18X5.5Z5	Hex Bolt 5/16-18x5 1/2 Grade 5 Zinc Plated Hex Cap Screw
34	28	LN1/2-13NCZ5	LN 1/2-13 Zinc Plated Nylon Insert Lock Nut
35	4	LN3/8-16NCZ5	LN 3/8-16 Zinc Plated Nylon Insert Lock Nut
36	6	LN5/16-18NCZ5	LN 5/16-18 Zinc Plated Nylon Insert Lock Nut
37	2	LN5/8-11NCZ5	LN 5/8-11 Zinc Plated Nylon Insert Lock Nut
38	1	TL5X2-201-111	Operators Manual Holder

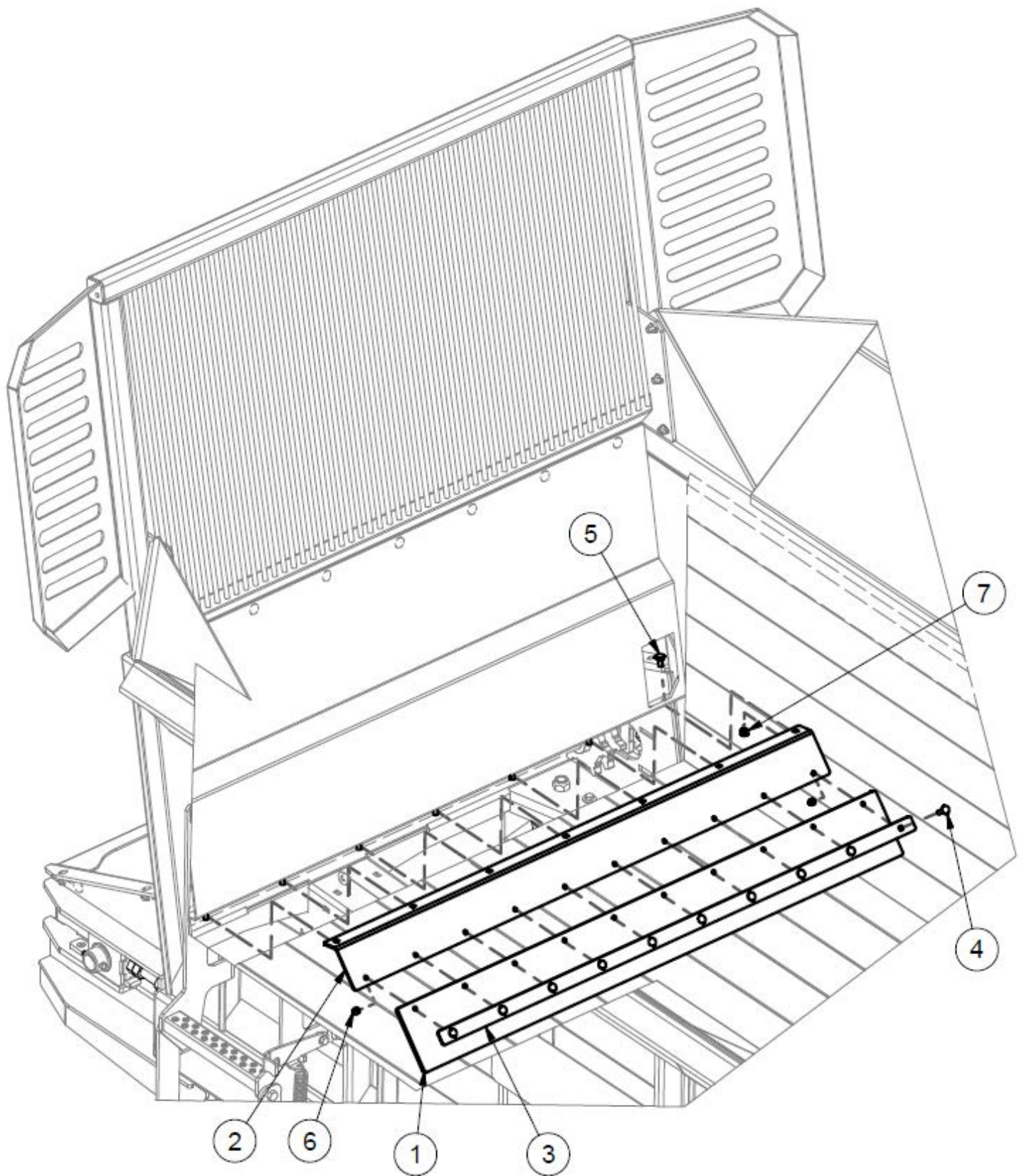
Tongue - SN 15NS201 to Current



Tongue - SN 15NS201 to Current

ITEM	QTY	PART NUMBER	DESCRIPTION	NOTE
1	1	25262	Safety Chain 20000 # 60"	
2	2	30823	Small Suspension Bushing	Optional
3	1	32853	Cat.4 Hitch Base	Pg.3-2 for Hitch Options
4	1	35250	Tongue	
5	1	35451	Tongue Hitch Mount	
6	2	36949	Suspension Bushing	Optional
7	1	37348	Right Suspension Spacer	Standard
8	1	37349	Left Suspension Spacer	Standard
10	2	700-470	Pivot Pin	
9	2	37845	Polygon 1.75 OD x1.52 ID x2.38 LG	
10	2	700-473	Pull Washer	Optional
11	1	BW-1005	Jack	
12	2	FW 1/2	Flatwasher - 1/2" Zinc Plated USS	Optional
13	2	HB1-14X7YZ8	Hex Bolt 1-14x7 Grade 8 Zinc Hex Cap Screw	
14	2	HB1-8X10Z5	Hex Bolt 1-8x10 Grade 5 Zinc Plated Hex Cap Screw	Standard
15	2	HB1-8X3Z5	Hex Bolt 1-8x3 Grade 5 Zinc Plated Hex Cap Screw	Standard
16	2	HB1/2-13X2.25Z5	Hex Bolt 1/2-13x2 1/4 Grade 5 Zinc Plated Hex Cap Screw	Optional
17	2	HB3/4-10X13Z5	Hex Bolt 3/4-10x13 Grade 5 Zinc Plated Hex Cap Screw	
18	6	HB3/4-16X2.5YZ8	Hex Bolt 3/4-16x2 1/2 Grade 8 Zinc Hex Cap Screw	
19	4	HB3/8-16X3Z5	Hex Bolt 3/8-16x3 Grade 5 Zinc Plated Hex Cap Screw	
20	4	HB5/8-11X2Z5	Hex Bolt 5/8-11x2 Grade 5 Zinc Plated Hex Cap Screw	
21	4	LN1-8NCZ5	LN 1-8 Zinc Plated Nylon Insert Lock Nut	Standard
22	2	LN 1-14 F	Center Locknuts (1-14) 2-Way Fine Thread	
23	2	LN1/2-13NCZ5	LN 1/2-13 Zinc Plated Nylon Insert Lock Nut	Optional
24	2	LN3/4-10NCZ5	LN 3/4-10 Zinc Plated Nylon Insert Lock Nut	
25	2	LN3/8-16NCZ5	LN 3/8-16 Zinc Plated Nylon Insert Lock Nut	
26	4	LN5/8-11NCZ5	LN 5/8-11 Zinc Plated Nylon Insert Lock Nut	
27	6	LN3/4-16NFZ8	3/4-16 Gr.8 Zinc Nylon Lock Nut	

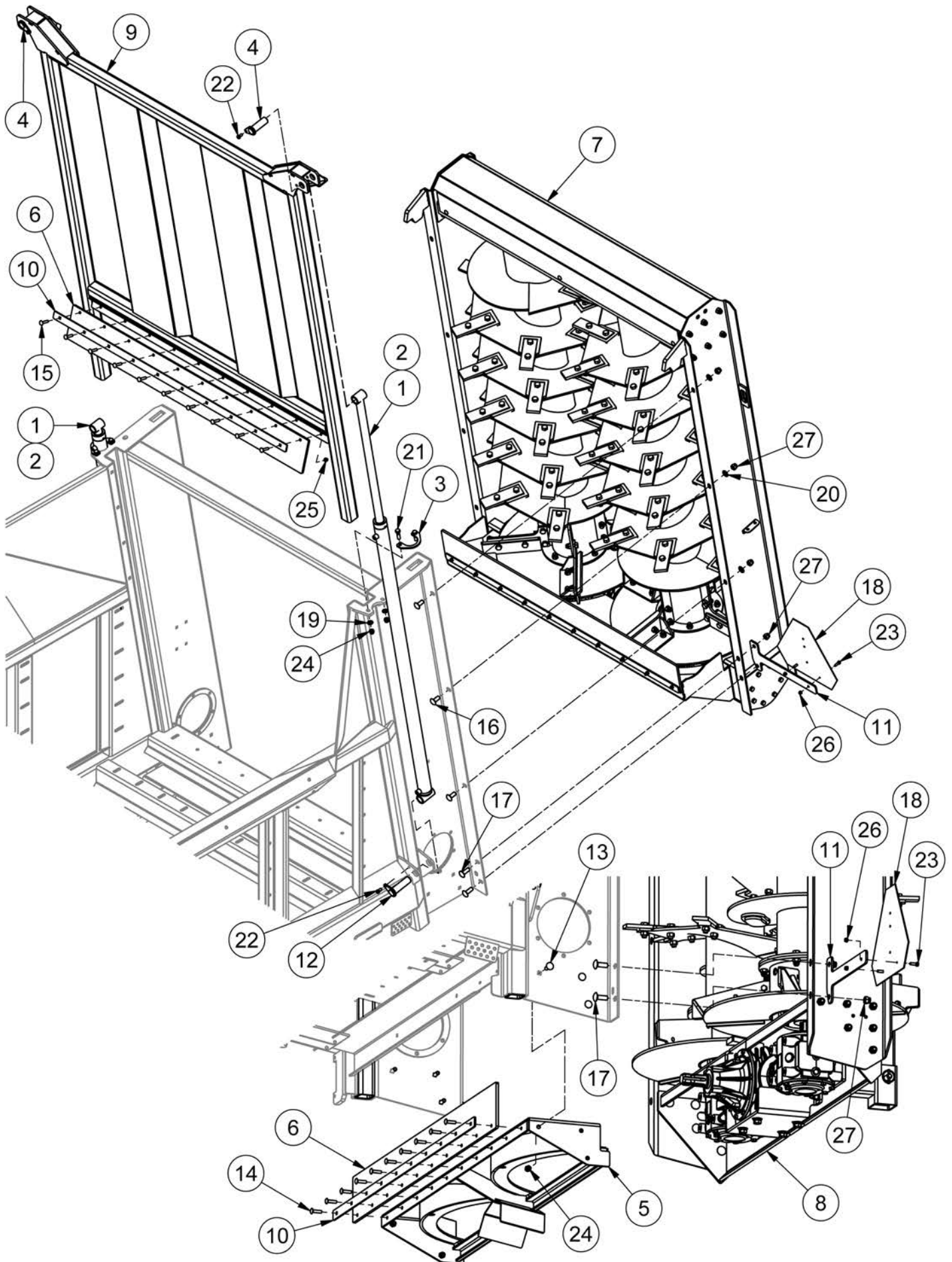
Front Scraper



Front Scraper

ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	450-441	Rubber Seal
2	1	600-769	Rubber Seal Mount
3	1	600-790	Rubber Hold Down
4	10	CB 3/8-16X1.1/2 Z5	Carriage Bolt - 3/8-16 x 1 1/2" Grade 5 Zinc
5	7	CB 7/16-14X1.0 Z5	Carriage Bolt - 7/16-14 x 1" Grade 5 Zinc
6	10	LN 3/8 N	Locknuts - 3/8-16 Zinc Plated Nylon Insert Lock Nut
7	7	LN 7/16 N	Center Locknuts - 7/16-14 Top Lock Nut

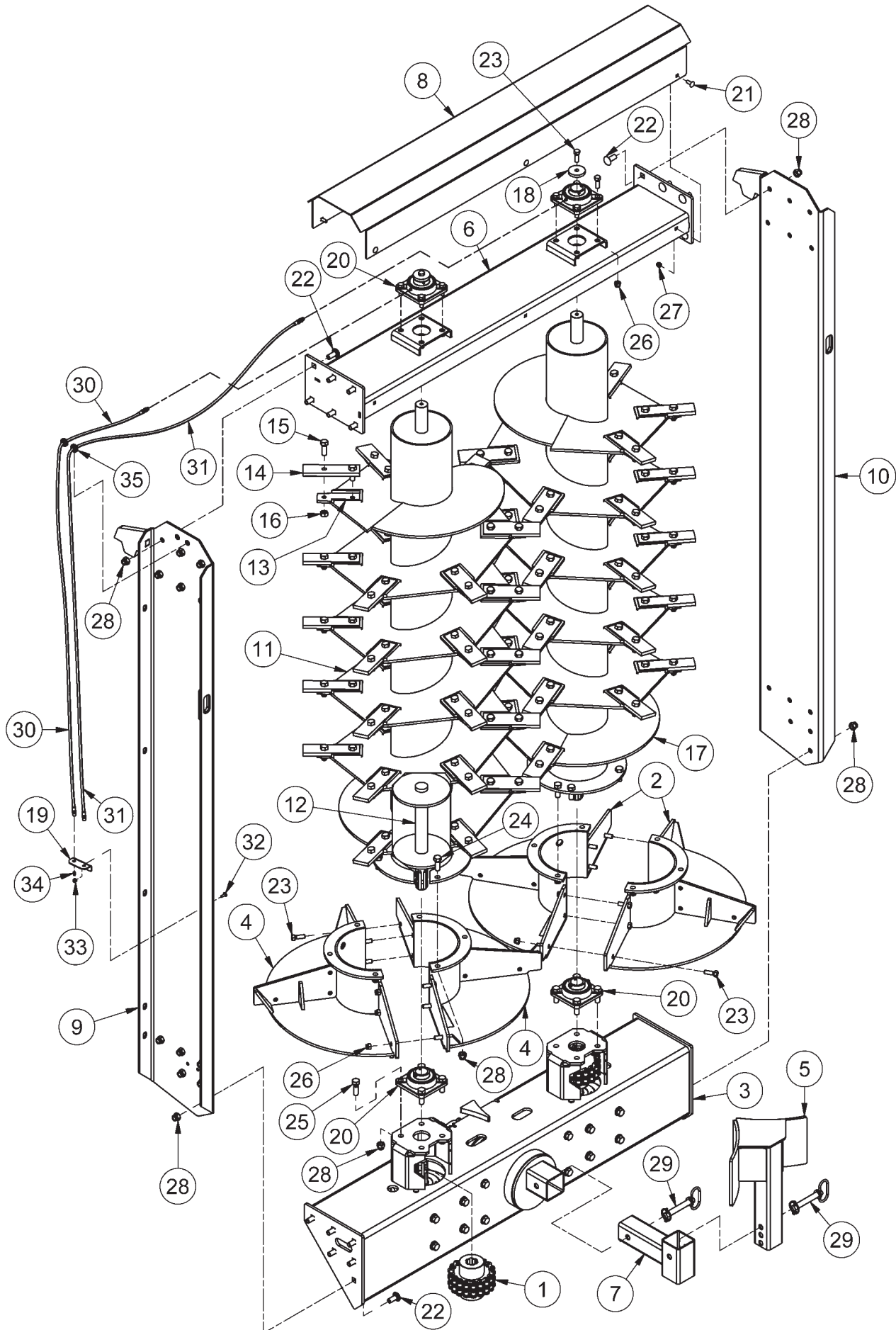
Rear Components



Rear Components

ITEM	QTY	PART NUMBER	DESCRIPTION	NOTE
1	2	CYL31732	Hyd. Cylinder - 2" X 63.5" X 1.5	
2	2	SKFH20-15	Seal Kit for 2" Cylinder Bore	
3	2	375-142	Endgate Cyl Support	
4	2	400-601	Pin	
5	1	450-130	Spinner Shroud	Up to SN 25NS201
6	2	450-441	Rubber Seal	
7	1	49835	Beater Assembly - BG240	SN 25NS202-Current
8	1	600-308	N600 Beater Assembly	Up to SN 25NS201
9	1	600-321	Endgate	
10	2	600-790	Rubber Hold Down	
11	1	700-108	SMV Sign Mount	
12	2	700-619	Pin	
13	6	CB1/2-13X1.5CZ5	Carriage Bolt - 1/2-13 x 1 1/2" Grade 5 Zinc	
14	10	CB3/8-16X1.5CZ5	Carriage Bolt - 3/8-16 x 1 1/2" Grade 5 Zinc	
15	10	CB3/8-16X1.75CZ5	Carriage Bolt - 3/8-16 x 1 3/4" Grade 5 Zinc	
16	7	CB5/8-11X1.5CZ5	Carriage Bolt - 5/8-11 x 1 1/2" Grade 5 Zinc	
17	2	CB5/8-11X1.75CZ5	Carriage Bolt - 5/8-11 x 1 3/4" Grade 5 Zinc	
18	1	DESMV	Slow Moving Vehicle Sign	
19	4	FW 1/2	Flatwasher - 1/2" Zinc Plated USS	
20	7	FW 5/8	Flatwasher - 5/8" Zinc Plated USS	
21	4	HB1/2-13X1.75Z5	Hex Bolt 1/2-13x1 3/4 Gr.5 Zinc Hex Cap Screw	
22	4	HB3/8-16X0.75Z5	Hex Bolt 3/8-16x3/4 Gr.5 Zinc Hex Cap Screw	
23	2	HB5/16-18X1Z5	Hex Bolt 5/16-18x1 Gr.5 Zinc Hex Cap Screw	
24	10	LN1/2-13NCZ5	LN 1/2-13 Zinc Plated Nylon Insert Lock Nut	
25	20	LN3/8-16NCZ5	LN 3/8-16 Zinc Plated Nylon Insert Lock Nut	
26	2	LN5/16-18NCZ5	LN 5/16-18 Zinc Plated Nylon Insert Lock Nut	
27	9	LN5/8-11NCZ5	LN 5/8-11 Zinc Plated Nylon Insert Lock Nut	

Beaters - Up to SN 25NS202



Beaters - Up to SN 25NS202

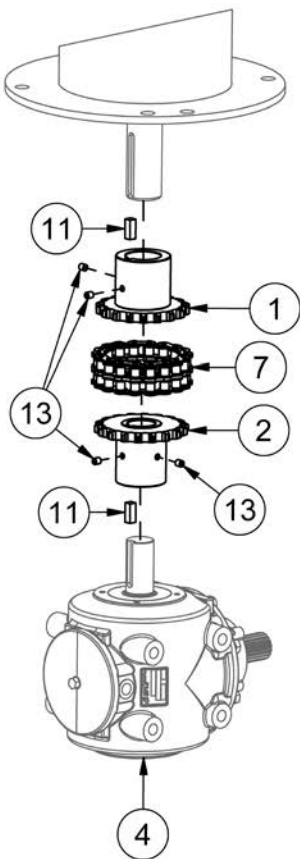
ITEM	QTY	PART NUMBER	DESCRIPTION	NOTE
1			Refer to Pg.2-14 for Beater - Gearbox Connections	
2	2	36966	Right Beater Spinner	
3	1	41866	Rear Drive Assembly - Nitro 600	See Pg.2-22
4	2	450-116	Left Beater Spinner	
5	1	450-131	Beater Deflector	
6	1	450-133	Cross Beam Beater Top	
7	1	450-134	Deflector Mount Insert	
8	1	450-405	Top Beater Cover	
9	1	600-325	Top Beater Side Frame	
10	1	600-326	Right Beater Side Frame	
11	1	600-332	N600 Left Hand Beater with Blades	Items 12-16
12	1	45098	Lower Shaft Assembly	Qty=1 Beater
13	30	47476	Paddle Retainer	Qty=1 Beater
14	30	400-438	Beater Paddle	Qty=1 Beater
15	60	HB5/8-11X1.75Z5	Hex Bolt 5/8-11x1 3/4 Grade 5 Zinc Plated Hex Cap Screw	Qty=1 Beater
16	60	LN5/8-11TCZ5	LN5/8-11 Gr.C Zinc Top Lock Nut	Qty=1 Beater
17	1	600-344	N600 Right Hand Beater with Blades	Items 12-16
18	2	700-157	Load Bearing Washer	
19	1	37849	Nitro Grease Line Mount	
20	4	BEA UCF209-28R3	Flange Bearing, Triple Seal, Ductile Iron	
21	6	CB3/8-16X1CZ5	Carriage Bolt - 3/8-16 x 1" Grade 5 Zinc	
22	24	CB5/8-11X1.5CZ5	Carriage Bolt - 5/8-11 x 1 1/2" Grade 5 Zinc	
23	22	HB1/2-13X1.5Z5	Hex Bolt 1/2-13x1 1/2 Grade 5 Zinc Plated Hex Cap Screw	
24	12	HB5/8-11X1.75Z5	Hex Bolt 5/8-11x1 3/4 Grade 5 Zinc Plated Hex Cap Screw	
25	8	HB5/8-11X2Z5	Hex Bolt 5/8-11x2 Grade 5 Zinc Plated Hex Cap Screw	
26	20	LN1/2-13NCZ5	LN 1/2-13 Zinc Plated Nylon Insert Lock Nut	
27	6	LN3/8-16NCZ5	LN 3/8-16 Zinc Plated Nylon Insert Lock Nut	
28	44	LN5/8-11NCZ5	LN 5/8-11 Zinc Plated Nylon Insert Lock Nut	
29	2	TL550-100-050	Push Off Pin	
30	1	36623	Hose - HH67 - 2R7(2MPX,2GKCY) HCL 67"	
31	1	36624	Hose - HH99 - 2R7(2MPX,2GKCY) HCL 99"	
32	1	CB1/4-20X0.75CZ5	Carriage Bolt - 1/4-20 x 3/4" Grade 5 Zinc	
33	1	LN1/4-20NCZ5	LN 1/4-20 Zinc Plated Nylon Insert Lock Nut	
34	2	GR 1/4 X 28	Grease Fitting 1/4-28 Straight Standard Zerk	
35	2	TL5X2-100-143	.625" ID Grommet	

Refer to [pg.3-26](#) for Flange Paddle option parts.

Beater to Gearbox Connections

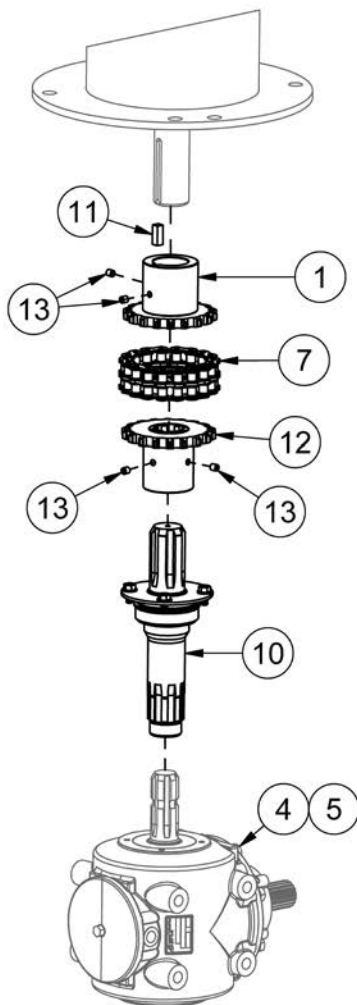
NOTE: 1 3/4" keywayed beaters can be updated to 1 3/4" spline shaft with [Pg.2-12](#) Item 12 - 45098. Welding required.

1 3/4" Keyway Shaft



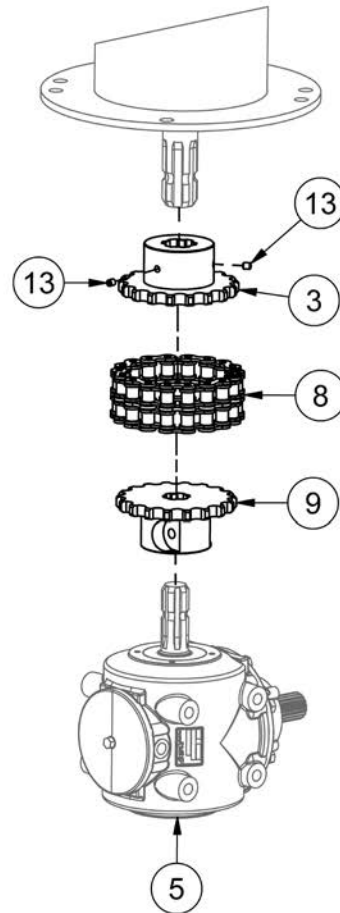
1 3/8" Keyway Shaft

1 3/4" Keyway Shaft



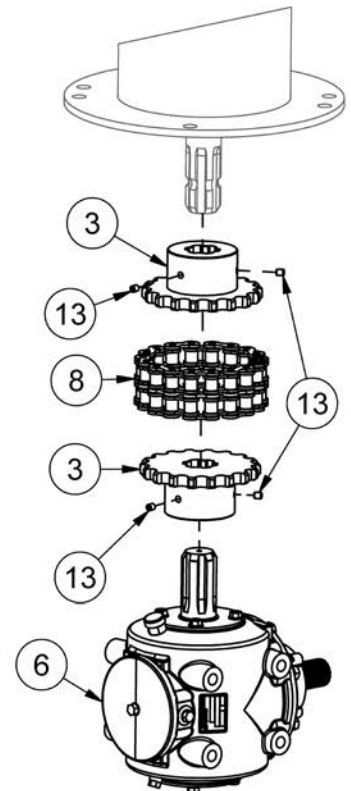
1 3/8" Keyway or Spline Shaft

1 3/4" Spline Shaft



1 3/8" Spline Shaft

1 3/4" Spline Shaft



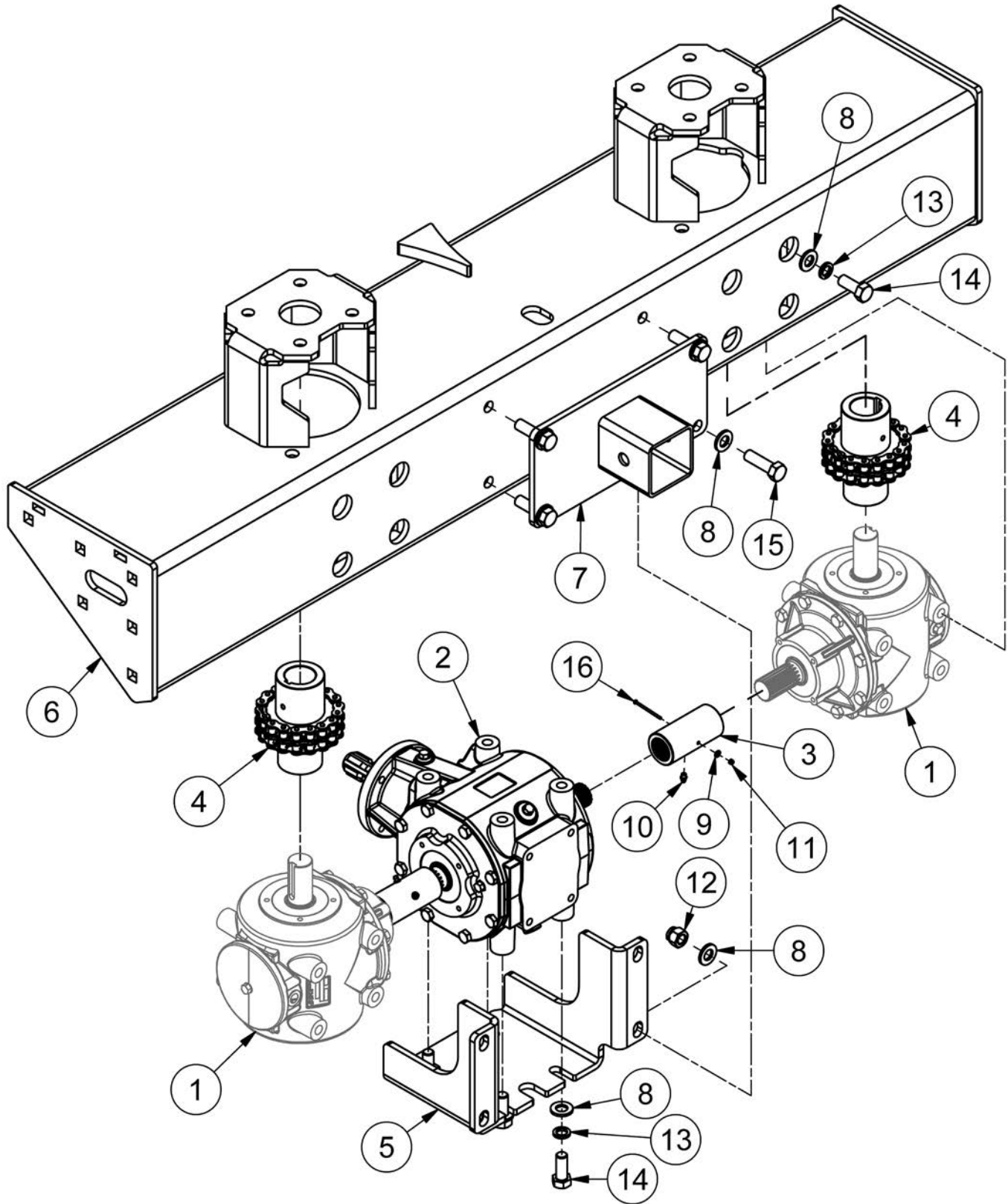
1 3/4" Spline Shaft

Beater to Gearbox Connections

NOTE: 1 3/4" keywayed beaters can be updated to 1 3/4" Spline shaft with [Pg.2-12](#) Item 12 - 45098. Welding required.

ITEM	PART NUMBER	DESCRIPTION	NOTE
1	400-905	Sprocket Weldment (1.75 keyed)#60	
2	402-906	Sprocket Weldment for Nitro Spreader (1.375 keyed)#60	
3	700-645	Sprocket 80T18-1.75 X 6 Spline	
4	30847	Gear Box Outside 1000 PTO w/ Keyway Output Shaft	Obsolete
5	30847-1	Gear Box (Outside) 1000 PTO w/ 540 - 1 3/8 Spline Output Shaft	Obsolete
6	30847-2	Gear Box 1000 PTO - 540 1 3/4 Spline Output	Brkdwn Pg.6-4
7	31515	#60 Chain Connector w/ Feather	
8	31518	#80 Coupling Chain	
9	37839	Sprocket Asm 80B18 w/ 1.38X6 Spline Hub	
10	45442	1 3/4 Shaft Kit Upgrade for T278	Replaces 1 3/8" shaft
11	KS39999	Keystock .375 X .375 X 1	
12	SPR60B18-1.75 X 6	Welded Sprocket 60B18-1.75 x 6 Spline	
13	SS5/16-18CX0.375CP	Allan Head Set Screw, 5/16-18 x 3/8	

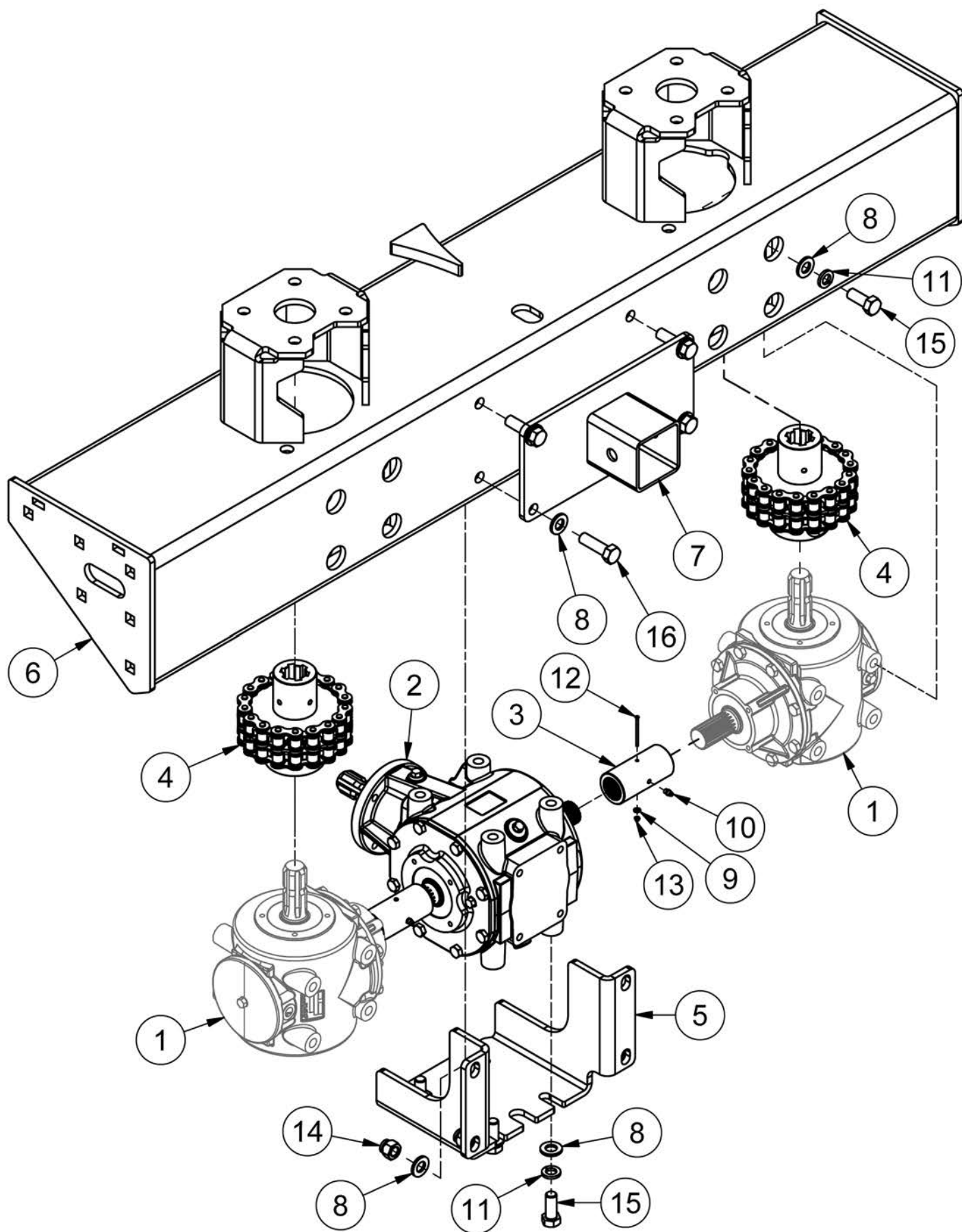
Beater Gearbox - 1 3/8" Keywayed - Up to SN 15NS216



Beater Gearbox - 1 3/8" Keywayed - Up to SN 15NS216

ITEM	QTY	PART NUMBER	DESCRIPTION	NOTE
1	2	30847	Gear Box Outside 1000 PTO w/ Keyway Output Shaft	Ref. to Pg.2-15
2	1	30848	Gear Box - Center - Spreaders	Ref. to Pg.6-8
3	2	30849	Sleeve- Gear box Spreaders- V450-V600	
4	2		Refer to Pg.2-15 for Beater - Gearbox Connections	
5	1	403-912	Gearbox Mount Bracket	
6	1	450-115	Bottom Cross Beam	
7	1	450-139	Deflector Mount Socket	
8	20	FW16MM	Metric Flat Washer	
9	2	FW4MM	Sealing Bonded Washer #4	
10	2	GR 1/4 X 28	Grease Fitting 1/4-28 Strght-Standrd Zerk	
11	2	LN#4-40NCZ5	LN 4-40 Zinc Plated Nylon Insert Lock Nut	
12	4	LM16-2CZ5	Locknut - M16-2 Zinc Plated Nylon Insert Lock Nut	
13	12	LWM16	Lockwasher - M16	
14	12	M16X40X2	Metric Bolt	
15	4	M16X55X2	Metric Bolt	
16	2	MS #4X40X2	Machine Screw - (Inch)	

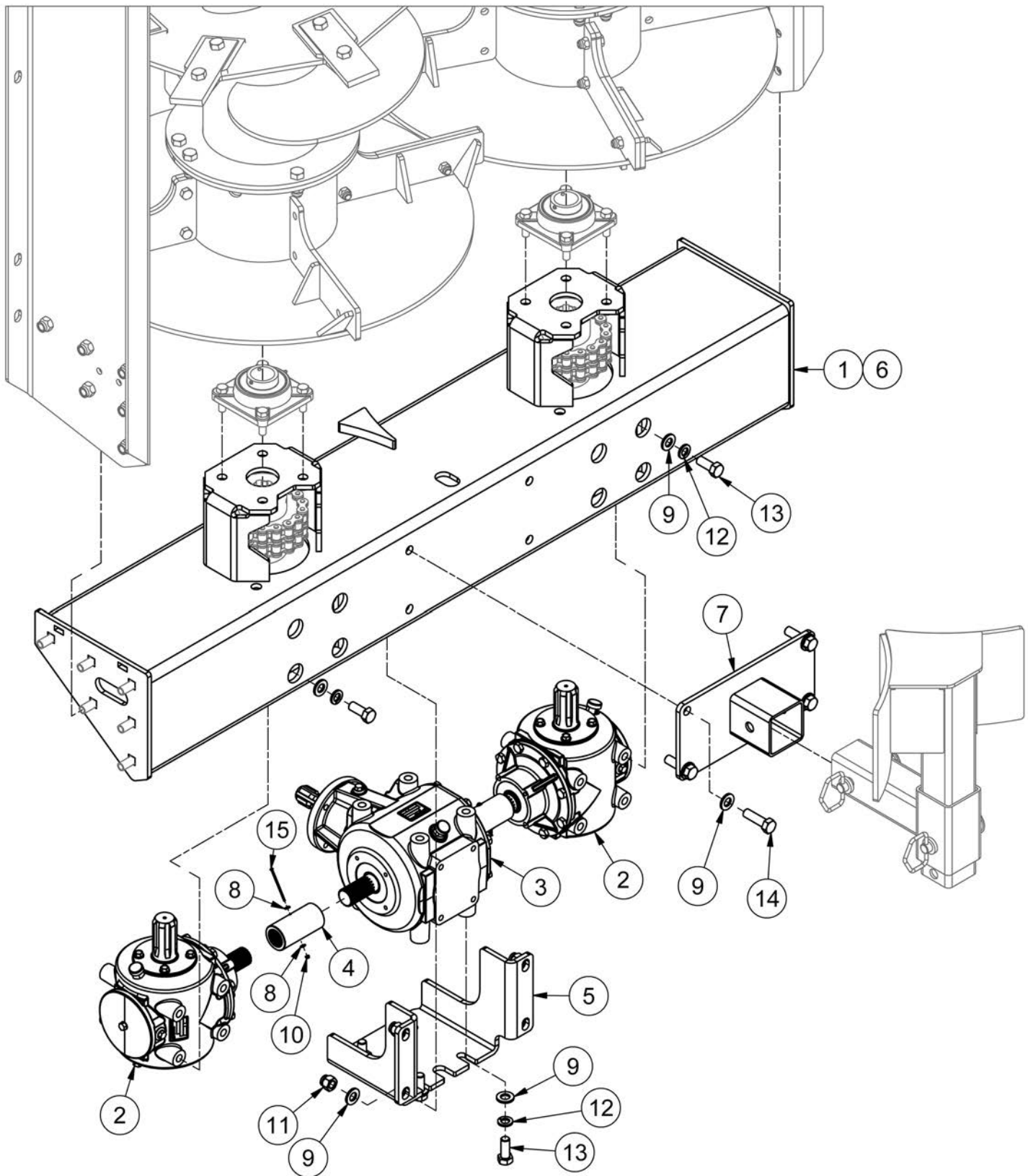
Beater Gearbox - 1 3/8" 6-Spline - SN 15NS217 to 16NS223



Beater Gearbox - 1 3/8" 6-Spline - SN 15NS217 to 16NS223

ITEM	QTY	PART NUMBER	DESCRIPTION	NOTE
1	2	30847-1	Gear Box (Outside) 1000 PTO w/ 540 - 1 3/8 Spline Output Shaft	Ref. to Pg.2-15
2	1	30848	Gear Box - Center - Spreaders	Ref. Pg.6-4
3	2	30849	Sleeve- Gear box Spreaders- V450-V600	
4	2		Refer to Pg.2-15 for Beater - Gearbox Connections	
5	1	403-912	Mounting Bracket- Gearbox	
6	1	450-115	Cross Beam Beater Bottom	
7	1	450-139	Deflector Mount Socket	
8	20	FWMM16	Flatwasher - M16 Black DIN6916 Struct.	
9	2	FWMM4	Sealing Bonded Washer #4	
10	2	GR 1/4 X 28	Grease Fitting 1/4-28 Strght-Standrd Zerk	
11	12	LW 16MM	Lockwasher Metric	
12	2	MS #4X40X2	Machine Screw - (Inch)	
13	2	LN#4-40NCZ5	LN 4-40 Zinc Plated Nylon Insert Lock Nut	
14	4	LM16-2CZ5	Locknut - M16-2 Zinc Plated Nylon Insert Lock Nut	
15	12	M16X40X2	Metric Bolt	
16	4	M16X55X2	Metric Bolt	

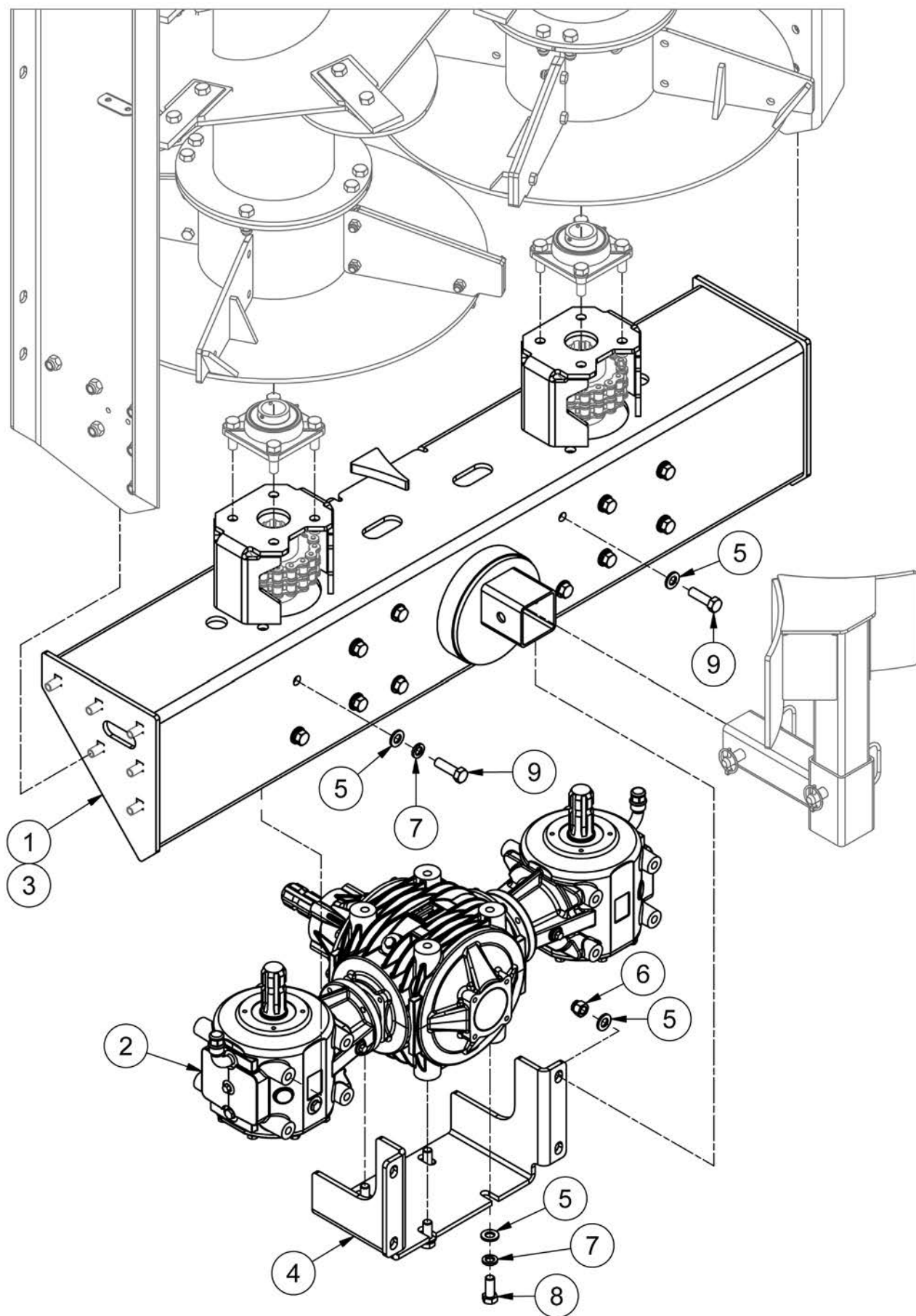
Beater Gearbox - 1 3/4" 6-Spline - SN 16NS112 to 16NS230



Beater Gearbox - 1 3/4" 6-Spline - SN 16NS112 to 16NS230

ITEM	QTY	PART NUMBER	DESCRIPTION	NOTE
1	1	40684	Rear Drive Assembly T290A	All Items
2	2	30847-2	Gear Box 1000 PTO - 540 1 3/4 Spline Output	See Pg.6-6
3	1	30848	Gear Box - Center - Spreaders	See Pg.6-8
4	2	30849	Sleeve - Gear Box Spreaders 1.38 x 18 Spline	
5	1	403-912	Mounting Bracket Gearbox	
6	1	450-115	Cross Beam Beater Bottom	
7	1	450-139	Deflector Mount Socket	
8	4	Bonded Washer - No.4		
9	20	FW16MM	Metric Flat Washer	
10	2	LN#4-40NCZ5	LN 4-40 Zinc Plated Nylon Insert Lock Nut	
11	4	LN16-2CZ5	Locknut - M16-2 Zinc Plated Nylon Insert Lock Nut	
12	12	LWM16	Lockwasher - M16	
13	12	M16X40X2	Metric Bolt	
14	4	M16X55X2	Metric Bolt	
15	2	MS #4X40X2.5	Machine Screw - (Inch)	

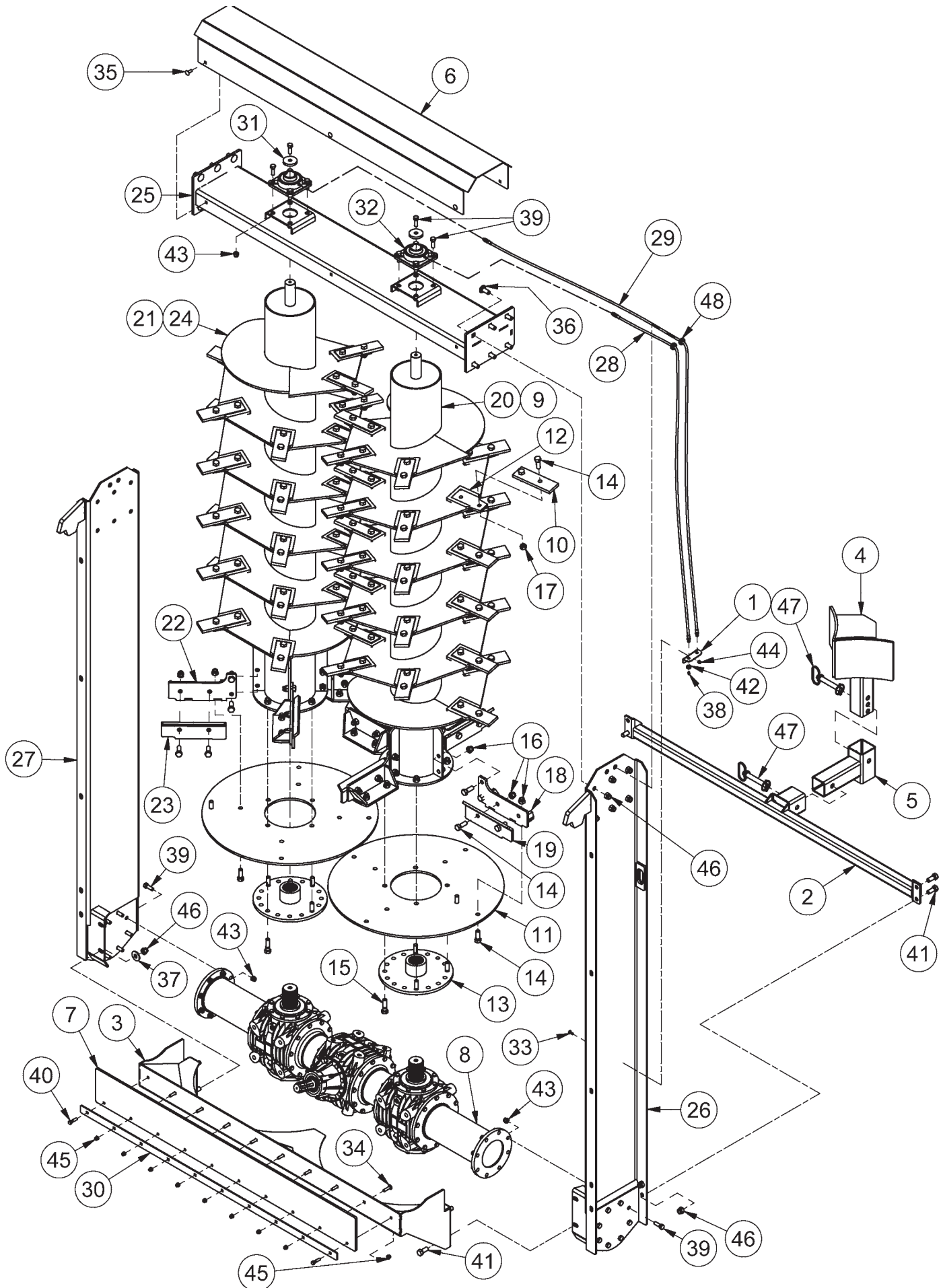
Beater Gearbox - 1 3/4" 6-Spline Input - SN 17NS202 to 25NS202



Beater Gearbox - 1 3/4" 6-Spline Input - SN 17NS202 to 25NS202

ITEM	QTY	PART NUMBER	DESCRIPTION	NOTE
1	1	41866	Rear Drive Assembly - Nitro 600	All Items
2	1	30846	Beater Gearbox	See Pg.6-10
3	1	48748	N600 Beater Lower Cross Beam	
4	1	700-646	Center Gearbox Mount	
5	28	FW16MM	Metric Flat Washer	
6	4	LN16-2CZ5	Locknut - M16-2 Zinc Plated Nylon Insert Lock Nut	
7	12	LWM16	Lockwasher - M16	
8	4	M16X40X2	Metric Bolt	
9	12	M16X55X2	Metric Bolt	

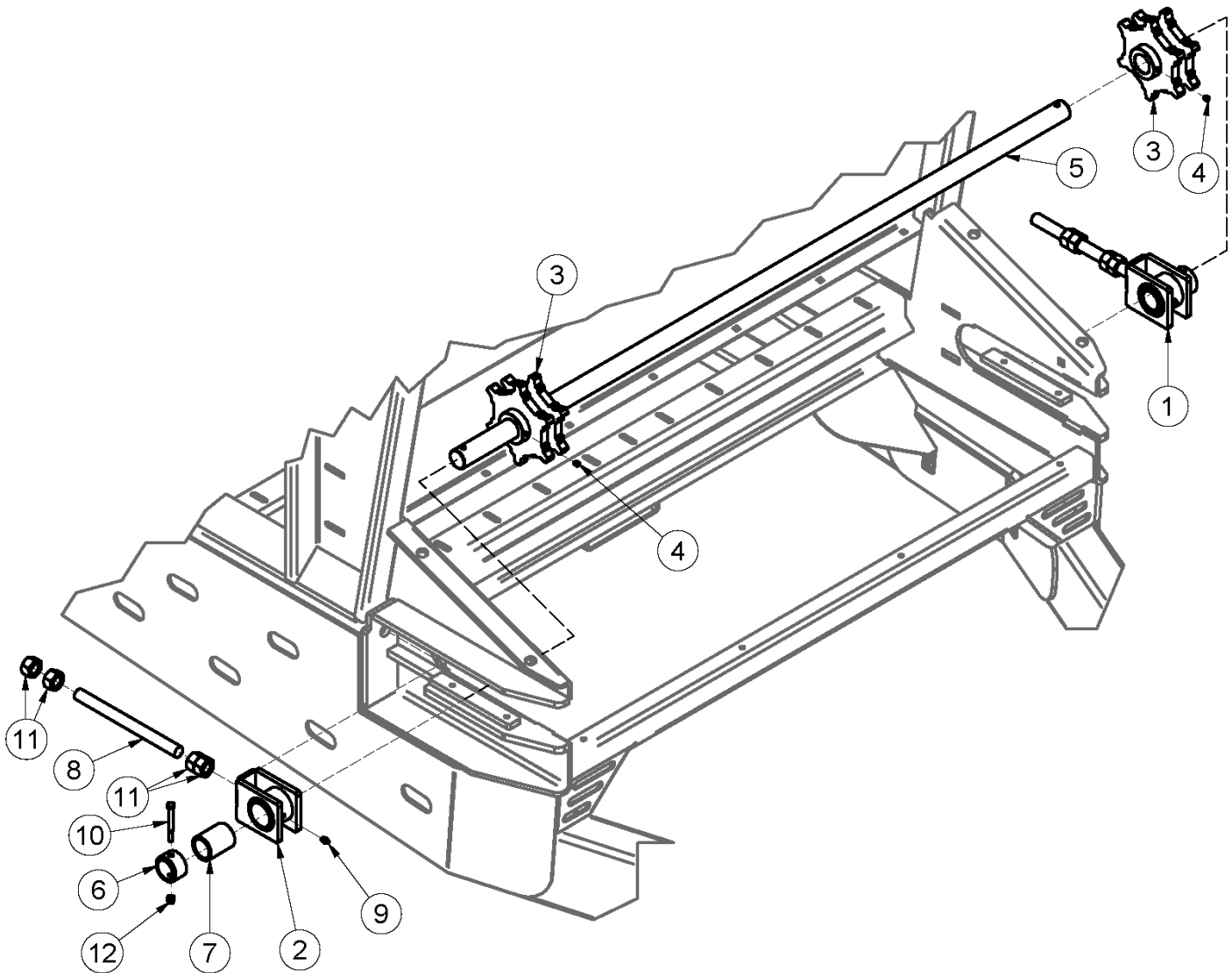
Beaters (49835) SN 25NS203 - Current



Beaters (49835) SN 25NS203 - Current

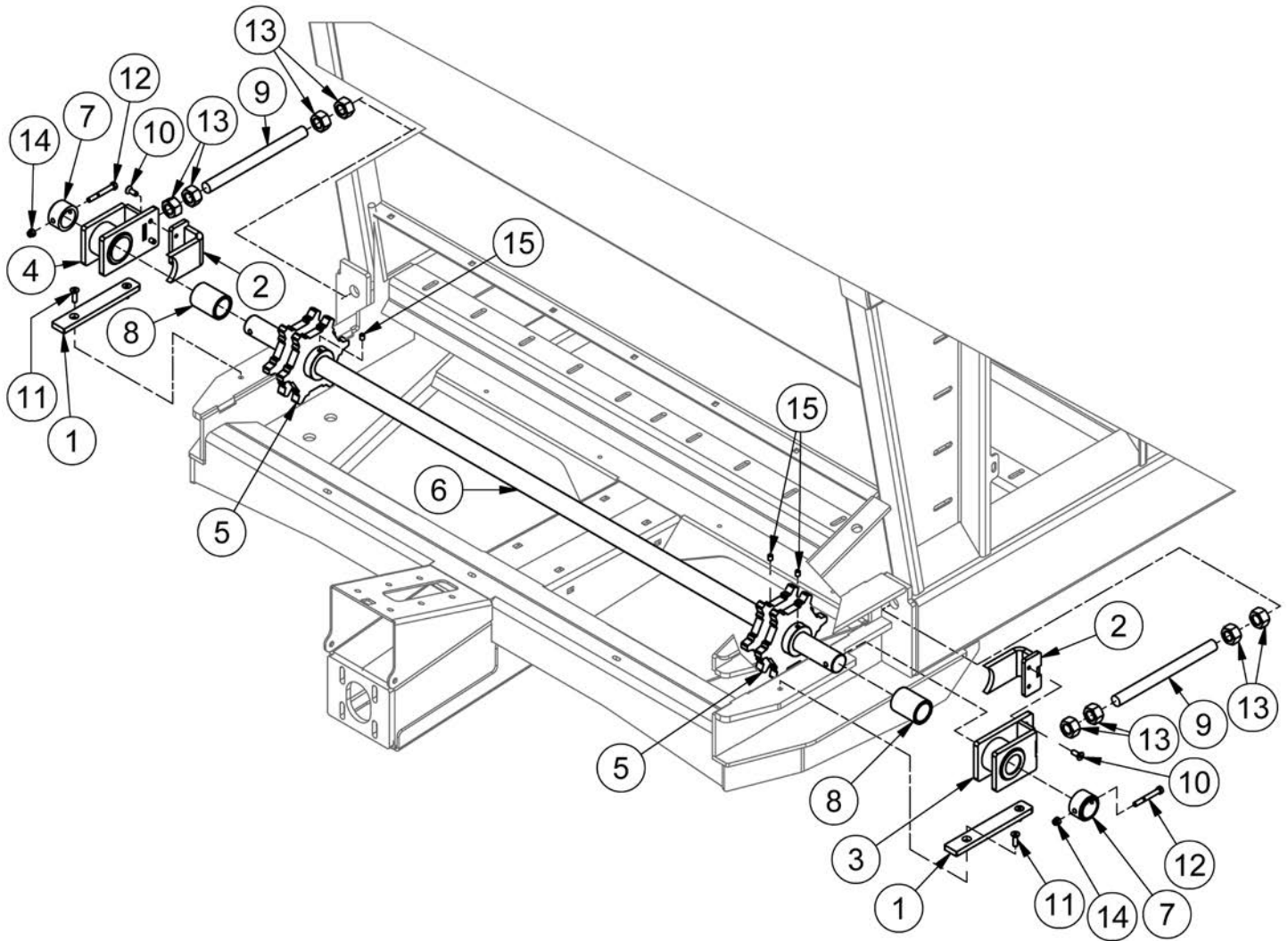
ITEM	QTY	PART NUMBER	DESCRIPTION	NOTE
1	1	37849	Grease Line Mount	
2	1	42225	Deflector Receiver	
3	1	42227	Spinner Assembly	
4	1	450-131	Beater Deflector	
5	1	450-134	Deflector Mount Insert	
6	1	450-405	Top Beater Cover	
7	1	450-441	Rubber Seal	
8	1	49604	BG240 Gearbox	
9	1	49836	Left Beater Assembly	Items 10-20
10	30	400-438	Beater Paddle	Qty/Beater
11	1	46924	Spinner Disc	Qty/Beater
12	30	47476	Paddle Retainer	Qty/Beater
13	1	50244	Spline Hub	Qty/Beater
14	84	HB5/8-11X1.75Z5	Hex Bolt 5/8-11x1 3/4 Gr.5 Zinc Hex Cap Screw	Qty/Beater
15	4	HB5/8-11X2.25Z5	Hex Bolt 5/8-11x2 1/4 Gr.5 Zinc Hex Cap Screw	Qty/Beater
16	28	LN5/8-11NCZ5	LN 5/8-11 Zinc Plated Nylon Insert Lock Nut	Qty/Beater
17	60	LN5/8-11TCZ5	LN5/8-11 Gr.C Zinc Top Lock Nut	Qty/Beater
18	4	46930	Left Paddle	
19	4	47551	Left Cupped Spinner Paddle	
20	1	49839	Left Beater Weldment	
21	1	49837	Right Beater Assembly	Items 10-17,22-24
22	4	46928	Right Paddle	
23	4	47552	Right Cupped Spinner Paddle	
24	1	49840	Right Beater Weldment	
25	1	49843	Beater Upper Cross Beam	
26	1	49845	Beater Side Frame - Left	
27	1	49846	Beater Side Frame - Right	
28	1	36623	Hose - HH67 - 2R7(2MPX,2GKCY) HCL 67"	
29	1	33624	Hose - HH99 - 2R7(2MPX,2GKCY) HCL 99"	
30	1	600-790	Rubber Hold Down	
31	2	700-157	Load Bearing Washer	
32	2	BEA UCF209-28R3	Flange Bearing, Triple Seal, Ductile Iron	
33	1	CB1/4-20X0.75CZ5	Carriage Bolt - 1/4-20 x 3/4" Grade 5 Zinc	
34	8	CB3/8-16X1.5CZ5	Carriage Bolt - 3/8-16 x 1 1/2" Grade 5 Zinc	
35	6	CB3/8-16X1CZ5	Carriage Bolt - 3/8-16 x 1" Grade 5 Zinc	
36	12	CB5/8-11X1.5CZ5	Carriage Bolt - 5/8-11 x 1 1/2" Grade 5 Zinc	
37	4	FW 5/8	Flatwasher - 5/8" Zinc Plated USS	
38	2	GR 1/4 X 28	Grease Fitting 1/4-28 Straight Standard Zerk	
39	26	HB1/2-13X1.5Z5	Hex Bolt 1/2-13x1 1/2 Gr.5 Zinc Hex Cap Screw	
40	2	HB3/8-16X1.5Z5	Hex Bolt 3/8-16x1 1/2 Gr.5 Zinc Hex Cap Screw	
41	8	HB5/8-11X1.5Z5	Hex Bolt 5/8-11x1 1/2 Gr.5 Zinc Hex Cap Screw	
42	2	HNJ7/16-14	Hex Nut - 7/16-14 Zinc Plated Hex Jam Nut	
43	24	LN1/2-13NCZ5	LN 1/2-13 Zinc Plated Nylon Insert Lock Nut	
44	1	LN1/4-20NCZ5	LN 1/4-20 Zinc Plated Nylon Insert Lock Nut	
45	16	LN3/8-16NCZ5	LN 3/8-16 Zinc Plated Nylon Insert Lock Nut	
46	20	LN5/8-11NCZ5	LN 5/8-11 Zinc Plated Nylon Insert Lock Nut	
47	2	TL550-100-050	Pushoff Tube Pin	
48	2	TL5X2-100-143	5/8" Grommet	

Front Apron Drive - Up to SN 14NS213



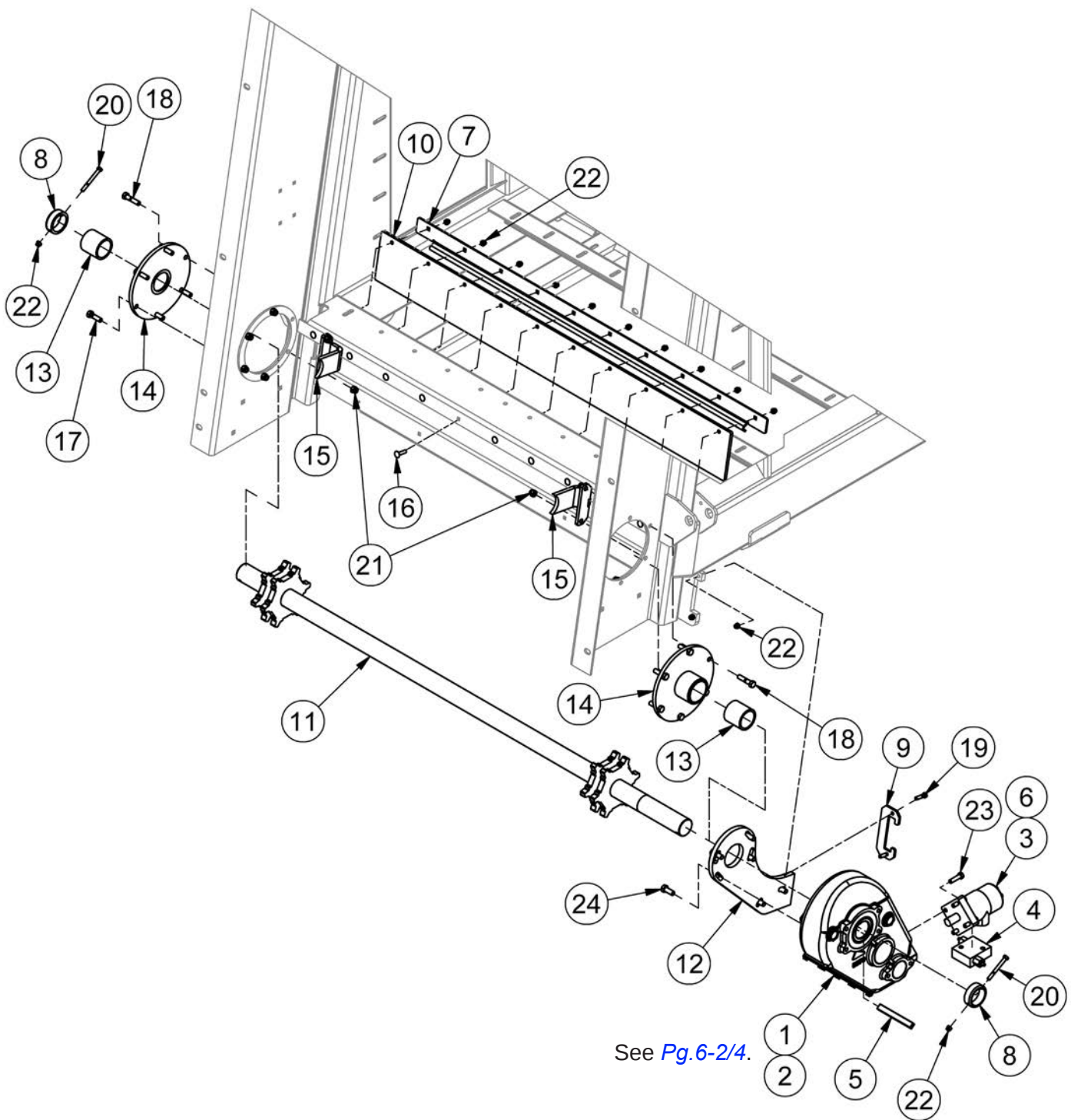
ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	31136	Left Tensioner Bushing Housing
2	2	600-329	Right Tensioner Bushing Housing
3	2	600-331	Apron Sprocket
4	4	SS 38X1/2	Allen Head Set Screw - 3/8-16 X 1/2
5	1	600-799	Front Apron Shaft
6	2	600-808	Apron Shaft Bushing
7	2	600-809	Bushing
8	2	700-040	Threaded Rod Tightener
9	2	GRNPT .125	1/8 Grease Fitting
10	2	HB 3/8-16X3.1/2 Z5	Hex Bolt - 3/8-16X3.1/2 Z5 Plated Gr.5 NC
11	8	HN 1.0	Hex Nut - 1"-8 Grade 5 Zinc Plated Finished NC
12	2	LN 3/8 N	Locknuts - 3/8-16 Zinc Plated Nylon Insert Lock Nut

Front Apron Drive - SN 15NS201 to Current



ITEM	QTY	PART NUMBER	DESCRIPTION
1	2	31123	Tightener Guide
2	2	45093	Front Apron Scraper
3	1	45095	Left Front Apron Shaft Housing
4	1	45096	Right Front Apron Shaft Housing
5	2	600-331	Left Apron Sprocket
6	1	600-799	Front Apron Shaft
7	2	600-808	Apron Shaft Bushing
8	2	600-809	Bushing
9	2	700-040	Threaded Rod Tightener
10	4	FHSCS3/8-16X1	Hex Bolt - 3/8"-16 x 1" Flat Socket Cap Screw
11	4	FHSCS3/8-16X1.25	Hex Bolt - 3/8"-16 x 1 1/4" Flat Socket Cap Screw
12	2	HB3/8-16X3Z5	Hex Bolt 3/8-16x3 Grade 5 Zinc Plated Hex Cap Screw
13	8	HN1-8CZ5	Hex Nut 1"-8 Grade 5 Zinc Plated Finished
14	2	LN3/8-16NCZ5	LN 3/8-16 Zinc Plated Nylon Insert Lock Nut
15	4	SS3/8-16CX0.51CP	Allan Head Set Screw, 3/8-16 x 1/2

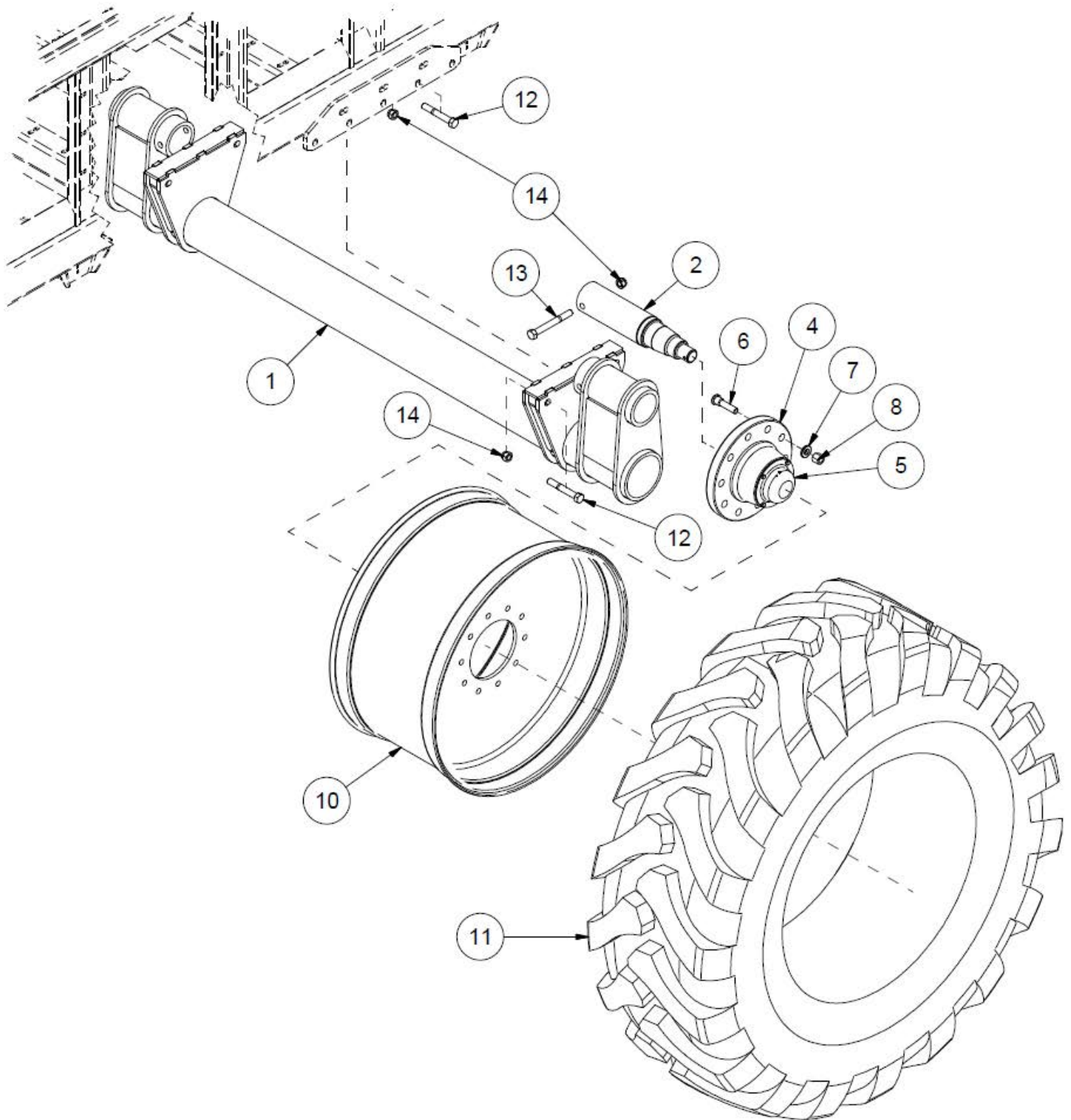
Rear Apron Drive



Rear Apron Drive

ITEM	QTY	PART NUMBER	DESCRIPTION	NOTE
1	1	30842	Apron Drive Gearbox	Up to 23NS210
2	1	49995	CNM500 Apron Gear Box	23NS211-Current
3	1	30854	Hydraulic Motor - Spreaders	Standard
4	1	30856	Hydraulic Cross Port Relief for Motor - Spreaders	
5	1	30859	Metric Key 18 x 11 x 150mm	
6	1	40718	Hydraulic Motor - Speed Sensor	Req. Scale Option
7	1	47567	Wiper Guide 62.5	
8	2	450-371	Apron Shaft Bushing	
9	1	450-433	Torque Arm Retainer	
10	1	450-441	2 Ply Rubber Belt - V600,V450 (7.0 X 62.5)	
11	1	600-345	Rear Apron Driveshaft	
12	1	600-849	Gearbox Torque Arm	
13	2	700-431	Apron Bushing	
14	2	700-638	Bearing Housing	
15	2	700-639	Apron Shaft Scraper	
16	10	CB3/8-16X1.5CZ5	Carriage Bolt - 3/8-16 x 1 1/2" Grade 5 Zinc	
17	8	HB1/2-13X1.75Z5	Hex Bolt 1/2-13x1 3/4 Grade 5 Zinc Plated Hex Cap Screw	
18	4	HB1/2-13X2.25Z5	Hex Bolt 1/2-13x2 1/4 Grade 5 Zinc Plated Hex Cap Screw	
19	2	HB3/8-16X1.5Z5	Hex Bolt 3/8-16x1 1/2 Grade 5 Zinc Plated Hex Cap Screw	
20	2	HB3/8-16X3.5Z5	Hex Bolt 3/8-16x3 1/2 Grade 5 Zinc Plated Hex Cap Screw	
21	12	LN1/2-13NCZ5	LN 1/2-13 Zinc Plated Nylon Insert Lock Nut	
22	14	LN3/8-16NCZ5	LN 3/8-16 Zinc Plated Nylon Insert Lock Nut	
23	4	M12X45X1.75	Metric Bolt	
24	6	M14X35X2	Metric Bolt	

Single Axle - Up to SN 14NS301



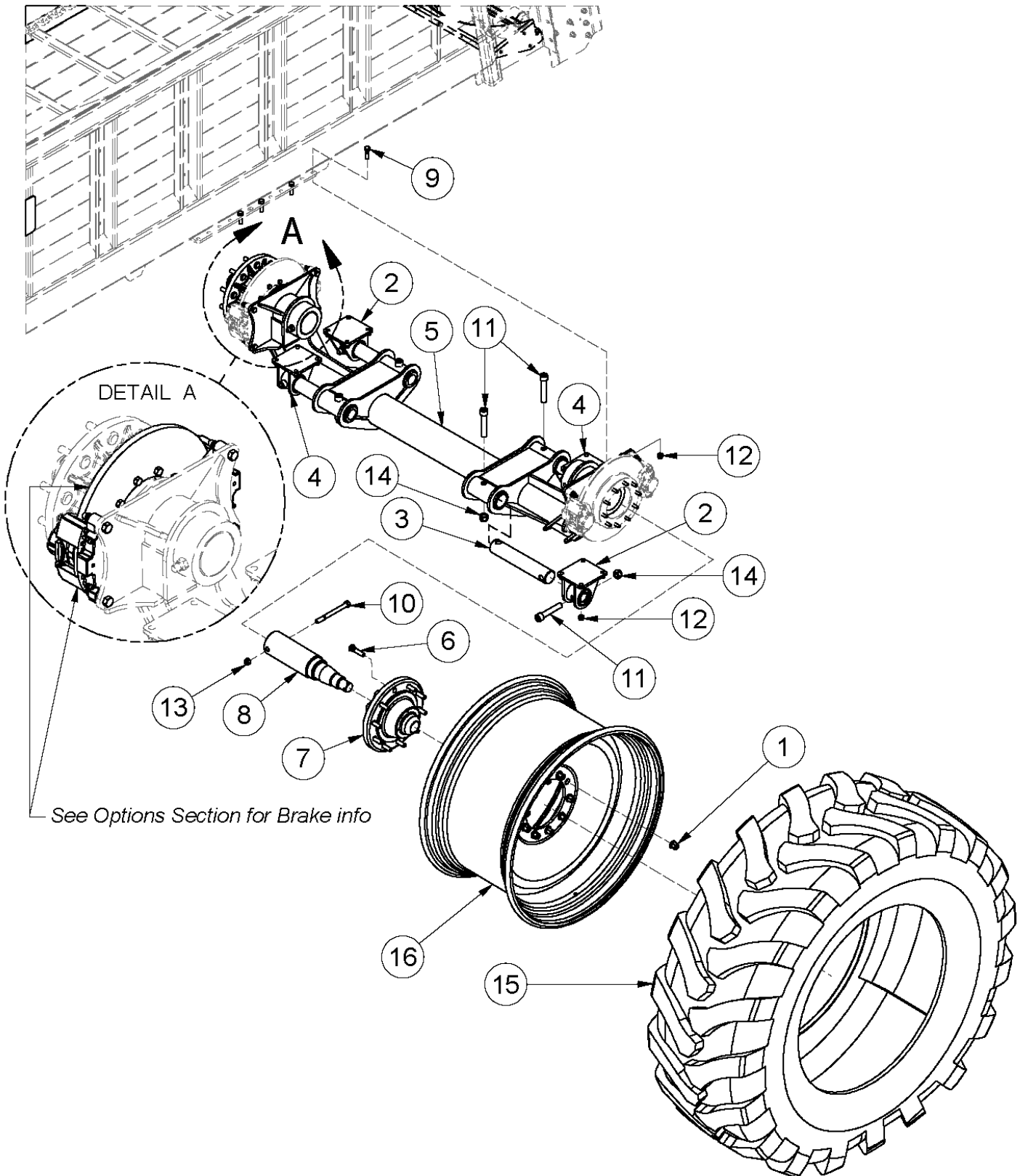
Single Axle - Up to SN 14NS301

ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	600-305	Offset Axle
2	2	700-485	20,000 lb Spindle
3	2	HUB 20000	Complete 20,000 lb Hub
4	2	31533	20,000 lb Hub
5	2	HUB 20000-CCS	20,000 lb Hub Bearing & Seal Kit
6	20	31529	3/4 Wheel Stud
7	20	39600	W750 Washer
8	20	31530	3/4 Wheel Nut
9	2	600-306/600-307	Left/Right Complete Tire
10	2	600-723	Rim
11	2	600-724	Tire
12	4	HB 3/4-10X5.0 Z5	Hex Bolt - 3/4"-10 x 5" Grade 5 Zinc Plated Hex Cap Screw NC
13	2	HB 3/4-10X6.1/2 Z5	Hex Bolt - 3/4"-10 x 6 1/2" Grade 5 Zinc Plated Hex Cap Screw NC
14	6	LN 3/4 N	Locknuts - 3/4-10 Zinc Plated Nylon Insert

NITRO 600 TIRE CHART		
Axle Type	Part Number	Tire Size
Single	WHE 710X70X38	710/70-38
Tandem	WHE 425X65X22.5L	425/22.5 Recap (Truck)
Tandem	WHE 550X45X22.5	550/45-22.5
Tandem	WHE 700X50X26.5	700/50-26.5

NOTE: Refer to Nitro Operator's Manual for wheel load capacity charts.

Single Axle - SN 14NS301 to 16NS226



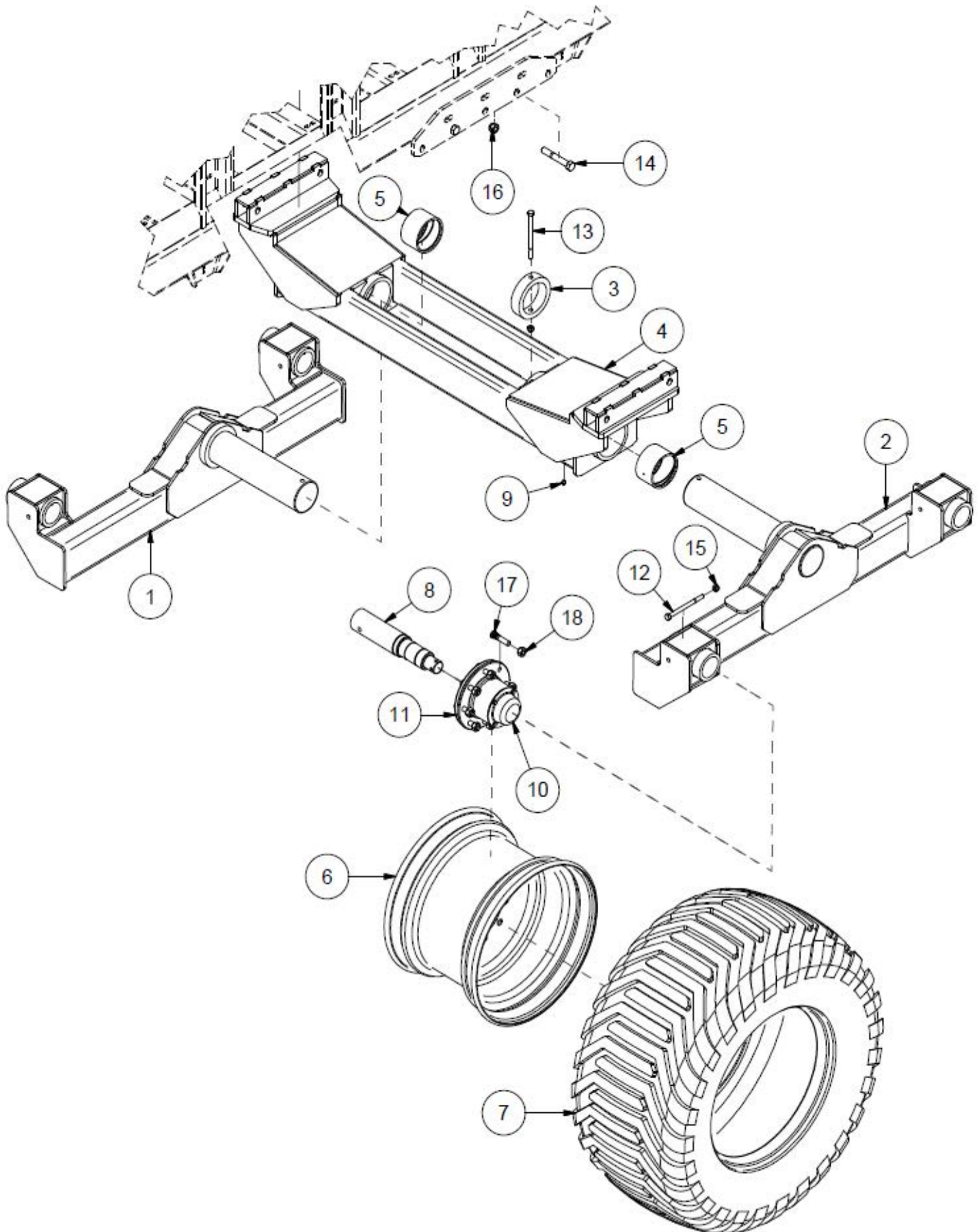
Single Axle - SN 14NS301 to 16NS226

ITEM	QTY	PART NUMBER	DESCRIPTION
1	20	31530	3/4"-16 Wheel Nut
2	2	35812	Left Frame Mount
3	4	36037	Axle Mount Pin
4	2	36836	Right Frame Mount
5	1	37306	Single Axle
6	20	31529	3/4" Wheel Stud
7	2	HUB 20000	20000lb Hub
8	2	SP 5.0 X 22	20000lb Hub Spindle
9	16	HB 5/8-11X2.1/4 Z5	Hex Bolt - 5/8"-11 x 2-1/4" Grade 5 Zinc Plated Hex Cap Screw NC
10	2	HB 3/4-10X8.1/2 Z5	Hex Bolt Plated Gr. 5 N.C
11	8	HB 1-8X5.1/2 SHCS	Hex Bolt - 1"-8 x 5-1/2" Socket Head Cap Screw
12	16	LN 5/8 N	Locknut - 5/8-11 Zinc Plated Nylon Insert Lock Nut
13	2	LN 3/4 N	Locknuts - 3/4-10 Zinc Plated Nylon Insert
14	14	LN 1.0	Center Locknuts
15	2	*Varies*	*See tire sidewall for Tire Size
16	2	*Varies*	*Rims vary on tires used, call dealer or manufacturer

NITRO 600 TIRE CHART		
Axle Type	Part Number	Tire Size
Single	WHE 710X70X38	710/70-38
Tandem	WHE 425X65X22.5L	425/22.5 Recap (Truck)
Tandem	WHE 550X45X22.5	550/45-22.5
Tandem	WHE 700X50X26.5	700/50-26.5

NOTE: Refer to Nitro Operator's Manual for wheel load capacity charts.

Tandem Axle - Up to SN 14NS301



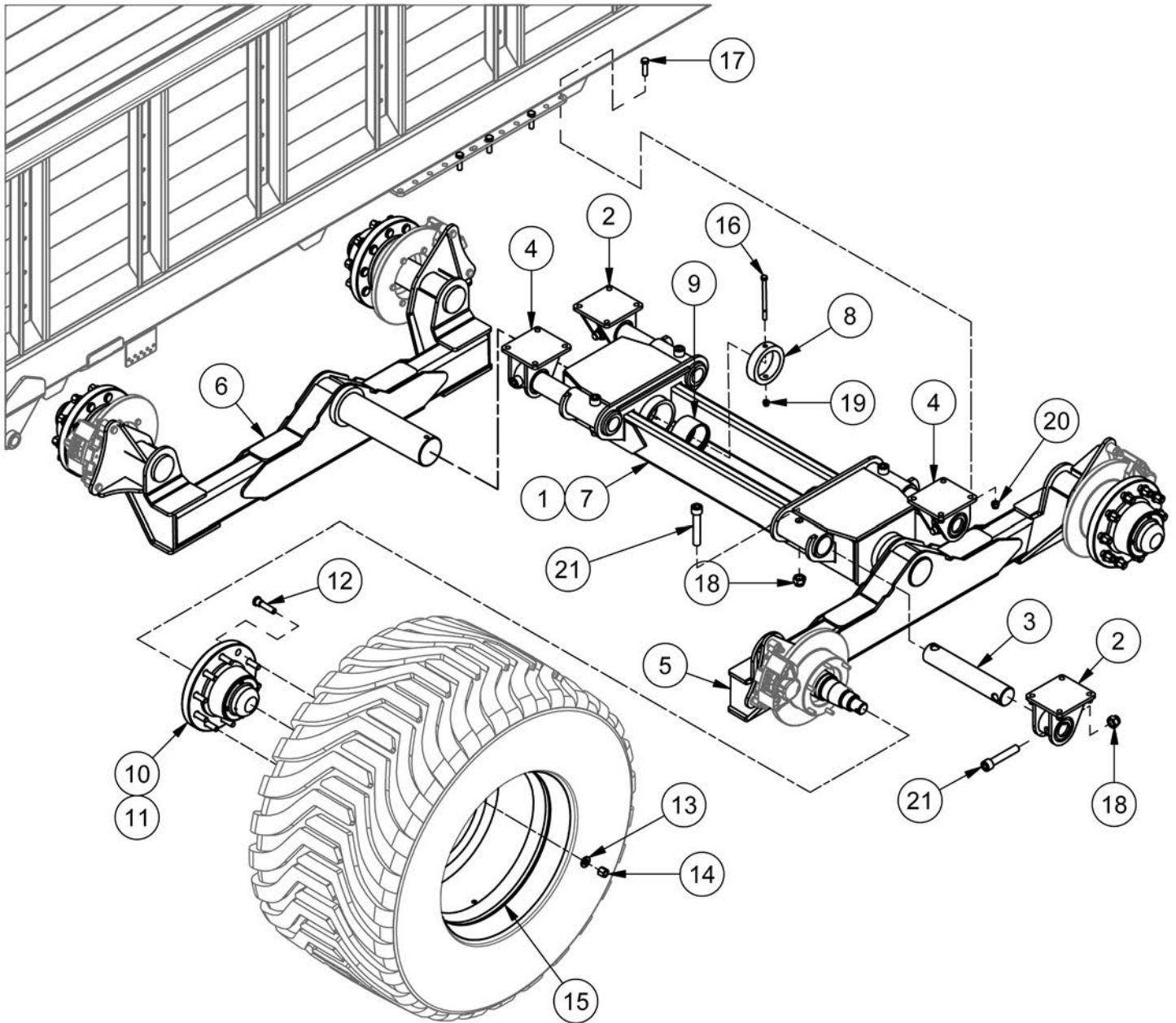
Tandem Axle - Up to SN 14NS301

ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	600-341	Right Walking Beam
2	1	600-342	Left Walking Beam
3	2	400-118	Axle Bushing
4	1	600-340	Offset Axle
5	4	400-304	Walking Beam Bushing
6	4	600-821	Tandem Rim
7	4	600-820	Tandem Tire
8	4	600-12001	3 x 17 1/2 Spindle
9	4	GRNPT 1/8	Grease Fitting 1/8 Straight
10	4	HUB 12000-CCS	12000lbs Hub Bearing & Seal Kit
11	4	HUB 12000	Complete 12000lbs Hub
12	4	HB 1/2-13X6.1/2 Z5	Hex Bolt - 1/2"-13 x 6-1/2" Grade 5 Zinc Plated Hex Cap Screw
13	2	HB 1/2-13X7.0 Z5	Hex Bolt - 1/2"-13 x 7" Grade 5 Zinc Plated Hex Cap Screw
14	4	HB 3/4-10X5.0 Z5	Hex Bolt - 3/4"-10 x 5" Grade 5 Zinc Plated Hex Cap Screw NC
15	6	LN 1/2 N	Locknuts - 1/2-13 Zinc Plated Nylon Insert Lock Nut
16	4	LN 3/4 N	Locknuts - 3/4-10 Zinc Plated Nylon Insert
17	32	31531	5/8 Wheel Stud
18	32	31532	5/8 Wheel Nut

NITRO 600 TIRE CHART		
Axle Type	Part Number	Tire Size
Single	WHE 710X70X38	710/70-38
Tandem	WHE 425X65X22.5L	425/22.5 Recap (Truck)
Tandem	WHE 550X45X22.5	550/45-22.5
Tandem	WHE 700X50X26.5	700/50-26.5

NOTE: Refer to Nitro Operator's Manual for wheel load capacity charts.

Tandem Axle - SN 14NS301 to Current



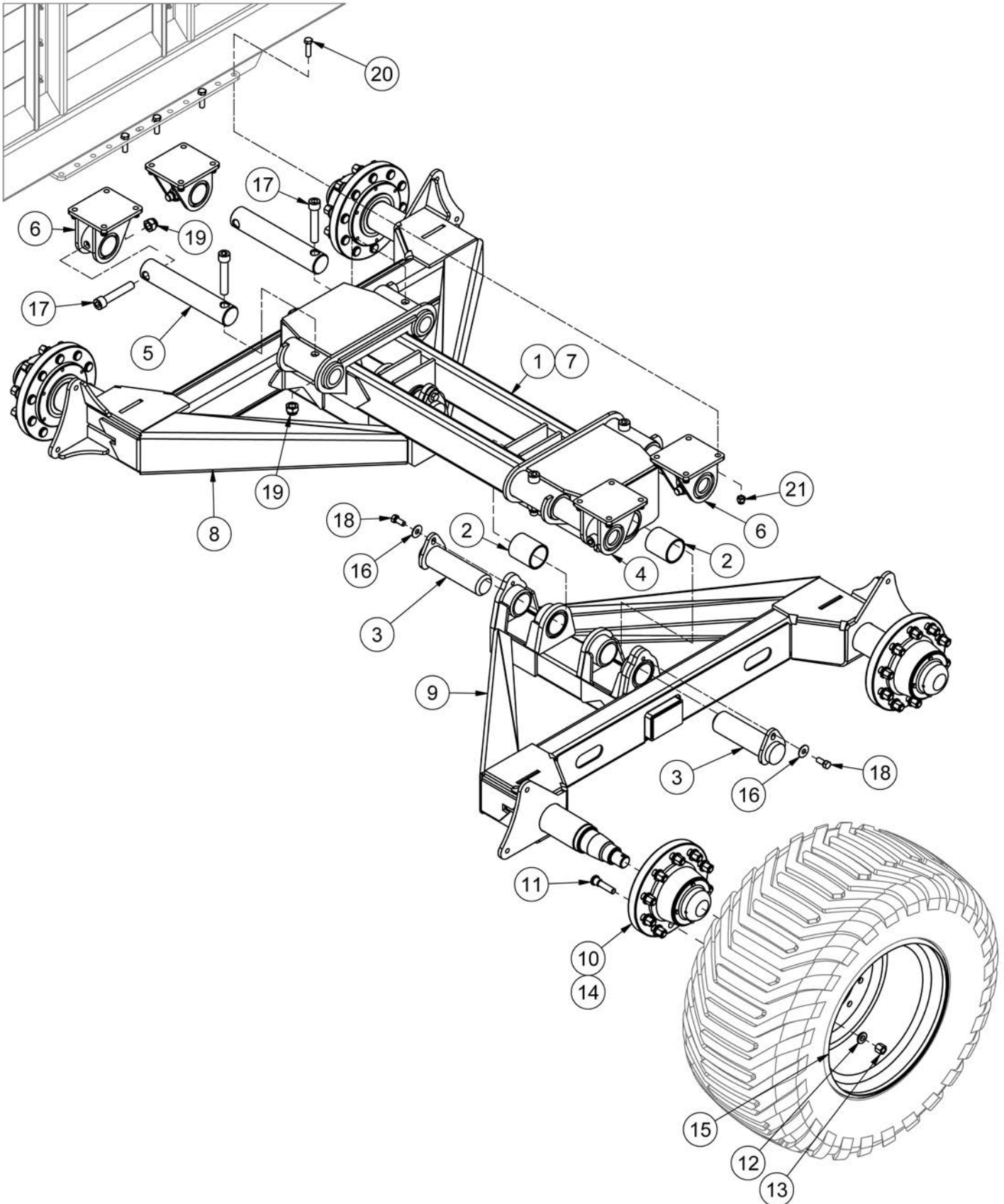
Tandem Axle - SN 14NS301 to Current

ITEM	QTY	PART NUMBER	DESCRIPTION	NOTE
1	1	39511	600 Tandem Axle Assembly	All Items
2	2	35812	Left Frame Mount	
3	4	36037	Axle Mount Pin	
4	2	36836	Right Frame Mount	
5	1	37260	Left Tandem Walking Beam	
6	1	37261	Right Tandem Walking Beam	
7	1	37303	Tandem Axle	
8	2	400-118	Axle Bushing	
9	4	400-304	Walking Beam Bushing	
10	4	HUB16000-CCS	Complete Bearing and Seals - HUB16000	
11	4	HUB 16000	Hub c/w Parts (16000)	Items 10,12-14
12	10	31529	F750/35 Wheel Stud	Qty=1 Hub
13	10	39600	W750 Washer	Qty=1 Hub
14	10	31530	.75"-16 Wheel Nut	Qty=1 Hub
15	4	WHE 2426.5	Rim - 24 X 26.5 w/ 10 Bolt Center 46mm Negative Offset	
16	2	HB1/2-13X7Z5	Hex Bolt 1/2-13x7 Grade 5 Zinc Plated Hex Cap Screw	
17	16	HB5/8-18X2.25YZ8	Hex Bolt 5/8-18x2 1/4 Grade 8 Zinc Hex Cap Screw	
18	8	LN1-8NCZ5	LN 1-8 Zinc Plated Nylon Insert Lock Nut	
19	2	LN1/2-13NCZ5	LN 1/2-13 Zinc Plated Nylon Insert Lock Nut	
20	16	LN5/8-18NFZ8	5/8-18 Gr.8 Zinc Nylon Lock Nut	
21	8	SHCS1-8X5.5	Hex Bolt - 1-8 x 5 1/2 Socket Head Cap Screw	

NITRO 600 TIRE CHART		
Axle Type	Part Number	Tire Size
Single	WHE 710X70X38	710/70-38
Tandem	WHE 425X65X22.5L	425/22.5 Recap (Truck)
Tandem	WHE 550X45X22.5	550/45-22.5
Tandem	WHE 700X50X26.5	700/50-26.5

NOTE: Refer to Nitro Operator's Manual for wheel load capacity charts.

Tandem Axle for 425/65R22.5 Recap Truck Tires



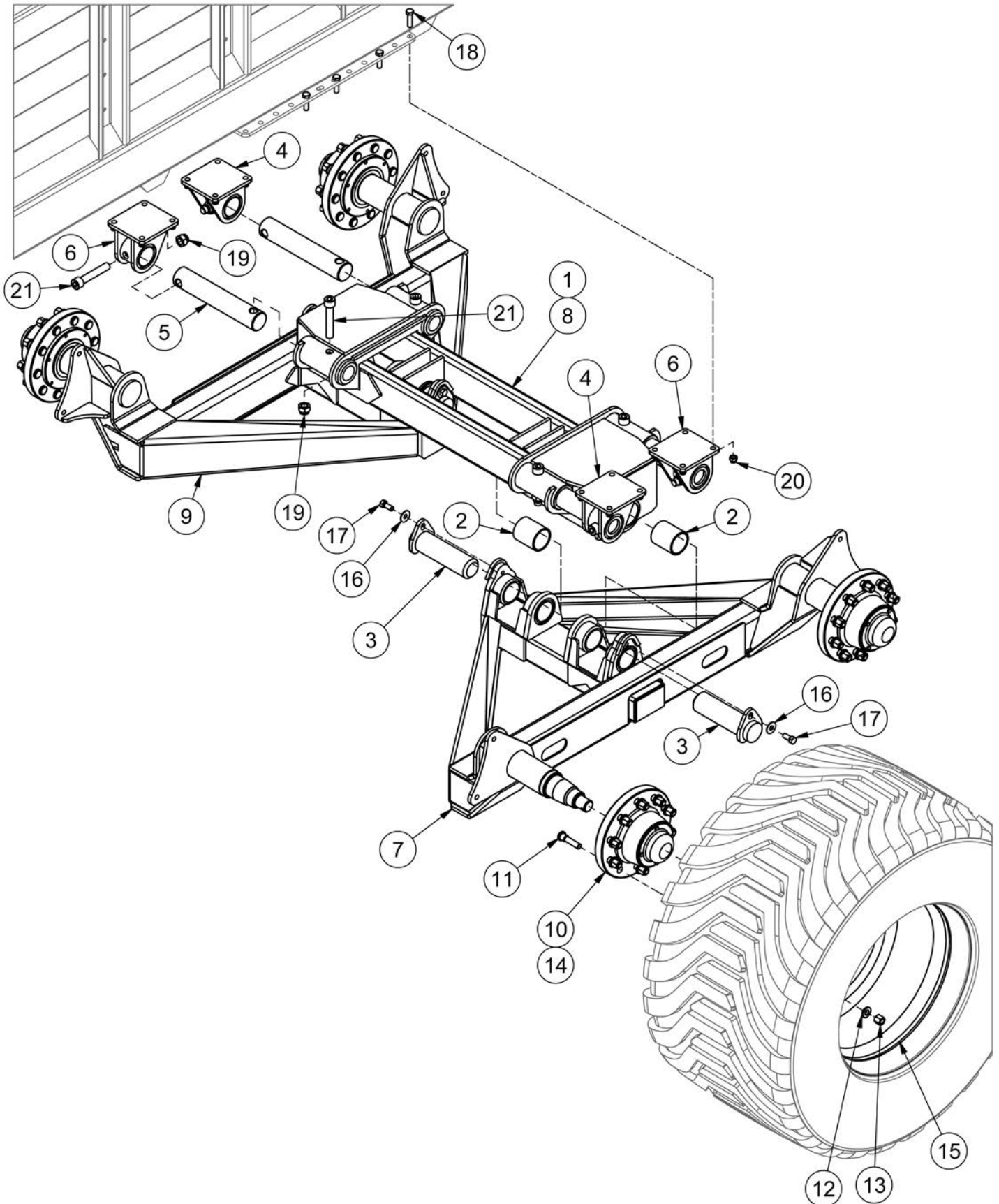
Tandem Axle for 425/65R22.5 Recap Truck Tires

ITEM	QTY	PART NUMBER	DESCRIPTION	NOTE
1	1	40890	600 Tandem Extra Clearance Brake Asm	All Items
2	4	31621	Axle Bushing	
3	4	31624	Axle Pivot Pin	
4	2	35812	Left Frame Mount	
5	4	36037	Axle Mount Pin	
6	2	36836	Right Frame Mount	
7	1	40550	600 Tandem Axle	
8	1	40881	Tandem 600 Extra Clearance (Left)	
9	1	40882	Tandem 600 Extra Clearance (Right)	
10	4	HUB 16000	Hub c/w Parts (16000)	Items 11-14
11	10	F750-35WS	Stud Bolt 3/4"-16 x 3 1/2"	Qty=1 Hub
12	10	F750-35NW	16000lb Wheel Nut Flange Washer	Qty=1 Hub
13	10	F750-35N	3/4"-16 Wheel Nut	Qty=1 Hub
14	1	HUB 16000-CCS	16000lb Bearing & Seal Kit	Qty=1 Hub
15	4	WHE 1622.5-10	Rim - 16 X 22.5 (10 Bolt 2.0 Negative Offset)	
16	4	FW 5/8	Flatwasher - 5/8" Zinc Plated USS	
17	8	SHCS1-8X5.5	Hex Bolt - 1-8 x 5 1/2 Socket Head Cap Screw	
18	4	HB5/8-11X1.5Z5	Hex Bolt 5/8-11x1 1/2 Grade 5 Zinc Plated Hex Cap Screw	
19	8	LN1-8NCZ5	LN 1-8 Zinc Plated Nylon Insert Lock Nut	
20	8	HB5/8-11X2.25YZ8	Hex Bolt 5/8-11x2 1/4 Grade 8 Zinc Hex Cap Screw	
21	16	LN5/8-18NFZ8	5/8-18 Gr.8 Zinc Nylon Lock Nut	

NITRO 600 TIRE CHART		
Axle Type	Part Number	Tire Size
Single	WHE 710X70X38	710/70-38
Tandem	WHE 425X65X22.5L	425/22.5 Recap (Truck)
Tandem	WHE 550X45X22.5	550/45-22.5
Tandem	WHE 700X50X26.5	700/50-26.5

NOTE: Refer to Nitro Operator's Manual for wheel load capacity charts.

Tandem Axle for 700/50-26.5



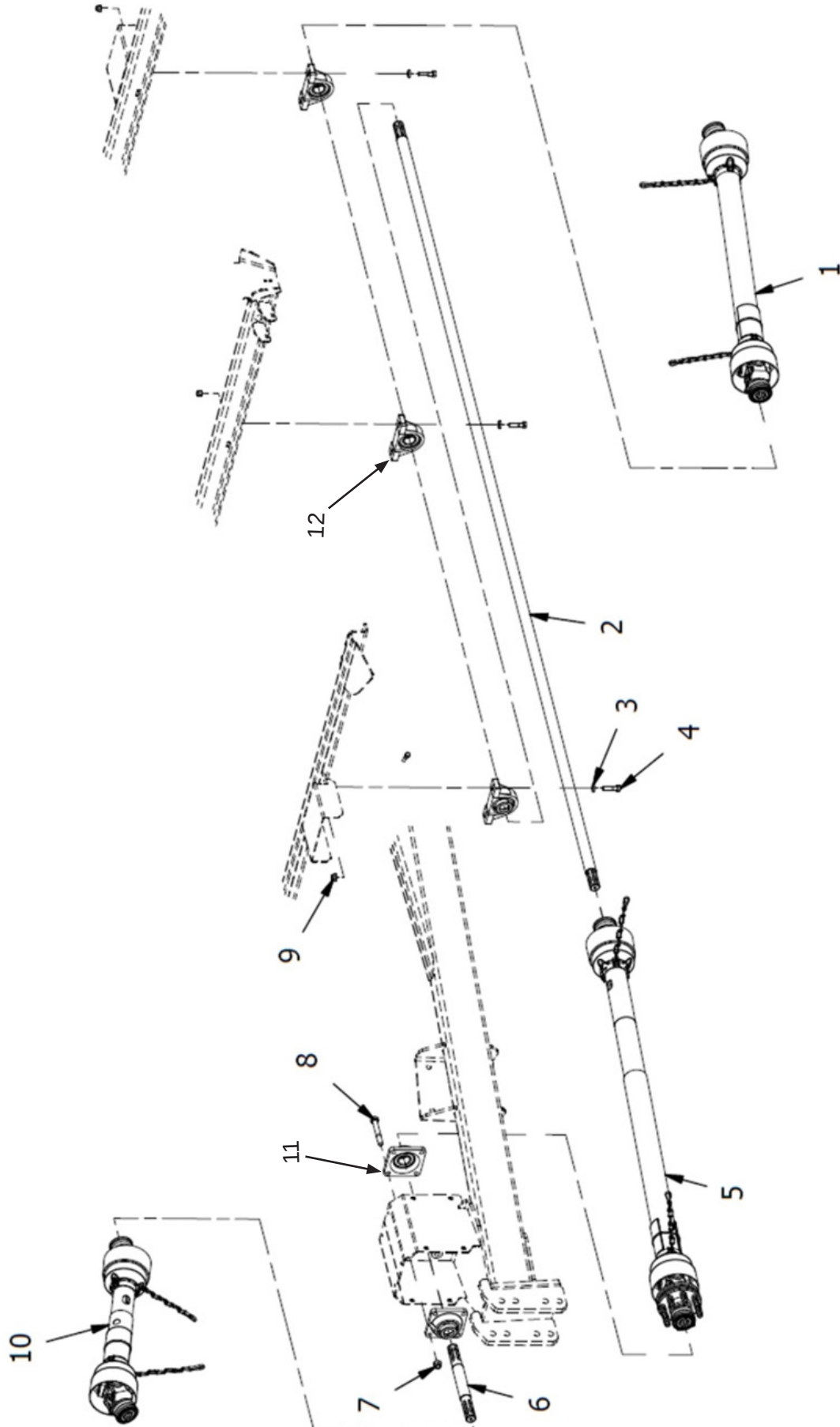
Tandem Axle for 700/50-26.5

ITEM	QTY	PART NUMBER	DESCRIPTION	NOTE
1	1	40546	Tandem 600 Axle Assembly	All Items
2	4	31621	Polygon 3.5 OD X 3.0 ID X 4.0 LG	
3	4	31624	Axle Pivot Pin - 950	
4	2	35812	Left Frame Mount	
5	4	36037	Mock Load Cell	
6	2	36836	Right Frame Mount	
7	1	40547	Tandem Walking Beam 600 (Left)	
8	1	40550	600 Tandem Axle	
9	1	40573	Tandem Walking Beam 600 (Right)	
10	4	HUB 16000	Hub c/w Parts (16000)	Items 11-14
11	10	11-1411	Stud Bolt 3/4"-16 x 3 1/2"	Qty=1 Hub
12	10	F750-35NW	16000lb Wheel Nut Flange Washer	Qty=1 Hub
13	10	F750-35N	3/4"-16 Weel Nut	Qty=1 Hub
14	1	HUB 16000-CCS	Complete Bearing and Seals for HUB16000	Qty=1 Hub
15	4	WHE 2426.5	Rim - 24 X 26.5 w/ 10 Bolt Center 46mm Negative Offset	
16	4	FW 5/8	Flatwasher - 5/8" Zinc Plated USS	
17	4	HB5/8-11X1.5Z5	Hex Bolt 5/8-11x1 1/2 Grade 5 Zinc Plated Hex Cap Screw	
18	8	HB5/8-11X2.25YZ8	Hex Bolt 5/8-11x2 1/4 Grade 8 Zinc Hex Cap Screw	
19	8	LN1-8NCZ5	LN 1-8 Zinc Plated Nylon Insert Lock Nut	
20	16	LN5/8-18NFZ8	5/8-18 Gr.8 Zinc Nylon Lock Nut	
21	8	SHCS1-8X5.5	Hex Bolt - 1-8 x 5 1/2 Socket Head Cap Screw	

NITRO 600 TIRE CHART		
Axle Type	Part Number	Tire Size
Single	WHE 710X70X38	710/70-38
Tandem	WHE 425X65X22.5L	425/22.5 Recap (Truck)
Tandem	WHE 550X45X22.5	550/45-22.5
Tandem	WHE 700X50X26.5	700/50-26.5

NOTE: Refer to Nitro Operator's Manual for wheel load capacity charts.

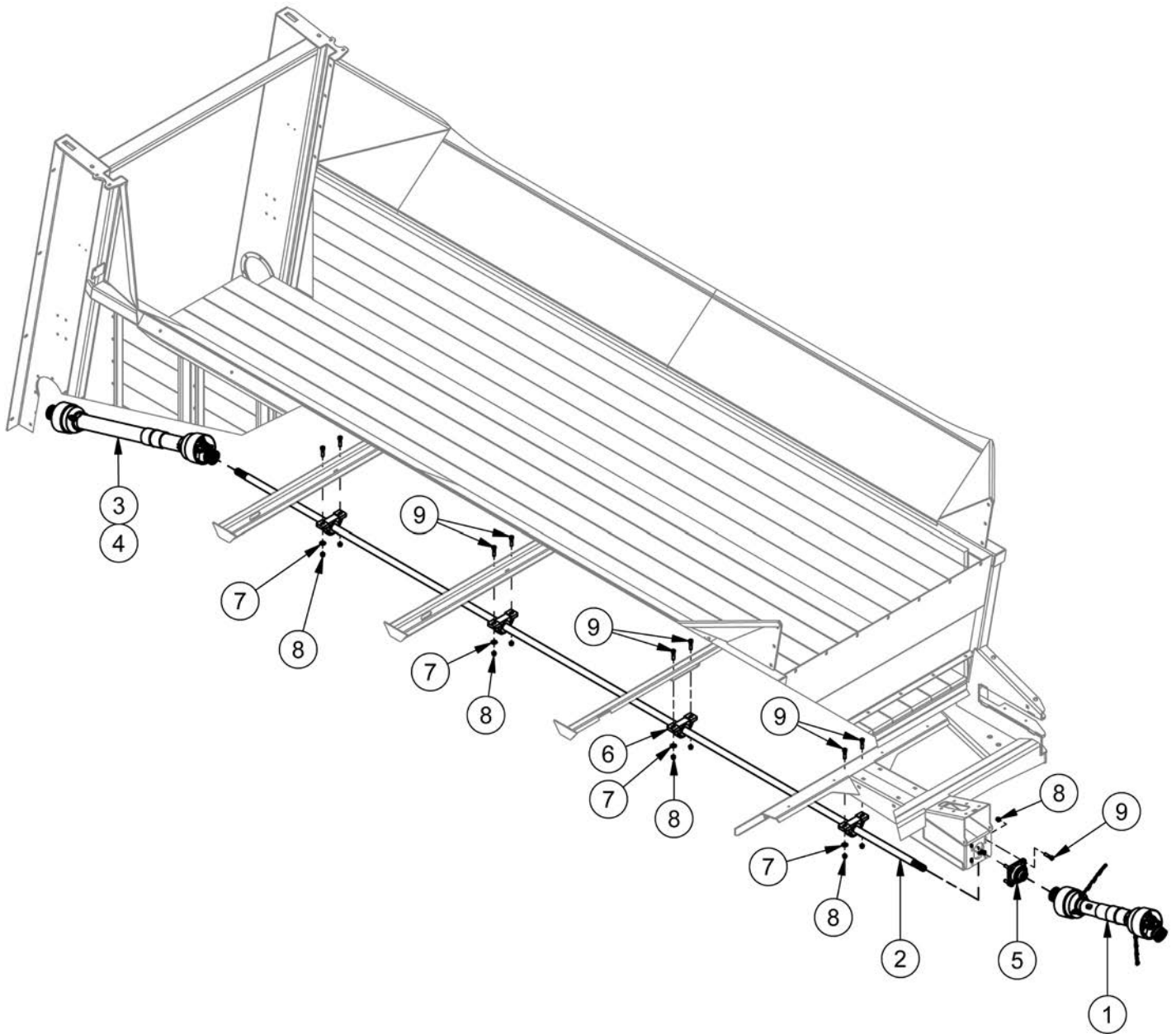
Driveline - Up to SN 14NS301



Driveline - Up to 14NS301

ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	30839	Rear Drive Shaft PTO
2	1	600-798	Splined Drive Shaft
3	6	FW 1/2	FW 1/2 Flat Washer
4	6	HB 1/2-13X2.1/2 Z5	Hex Bolt 1/2-13 x 2 1/2" Grade 5 Zinc Plated Hex Cap Screw NC
5	1	30840	Over Running Slip Clutch PTO
6	1	400-994	Splined Drive Shaft
7	4	LN 5/8 N	Locknut - 5/8-11 Zinc Plated Nylon Insert Lock Nut
8	4	HB 5/8-11X4.1/2 Z5	Hex Bolt Plated Gr. 5 N.C (80)
9	6	LN 1/2 N	Locknuts - 1/2-13 Zinc Plated Nylon Insert Lock Nut
10	1	30841	Front Drive Shaft PTO
11	4	BEA UCF208-24R3	UCF 208 Bearing
12	2	BEA UCP208-24R3	UCP 208 Bearing

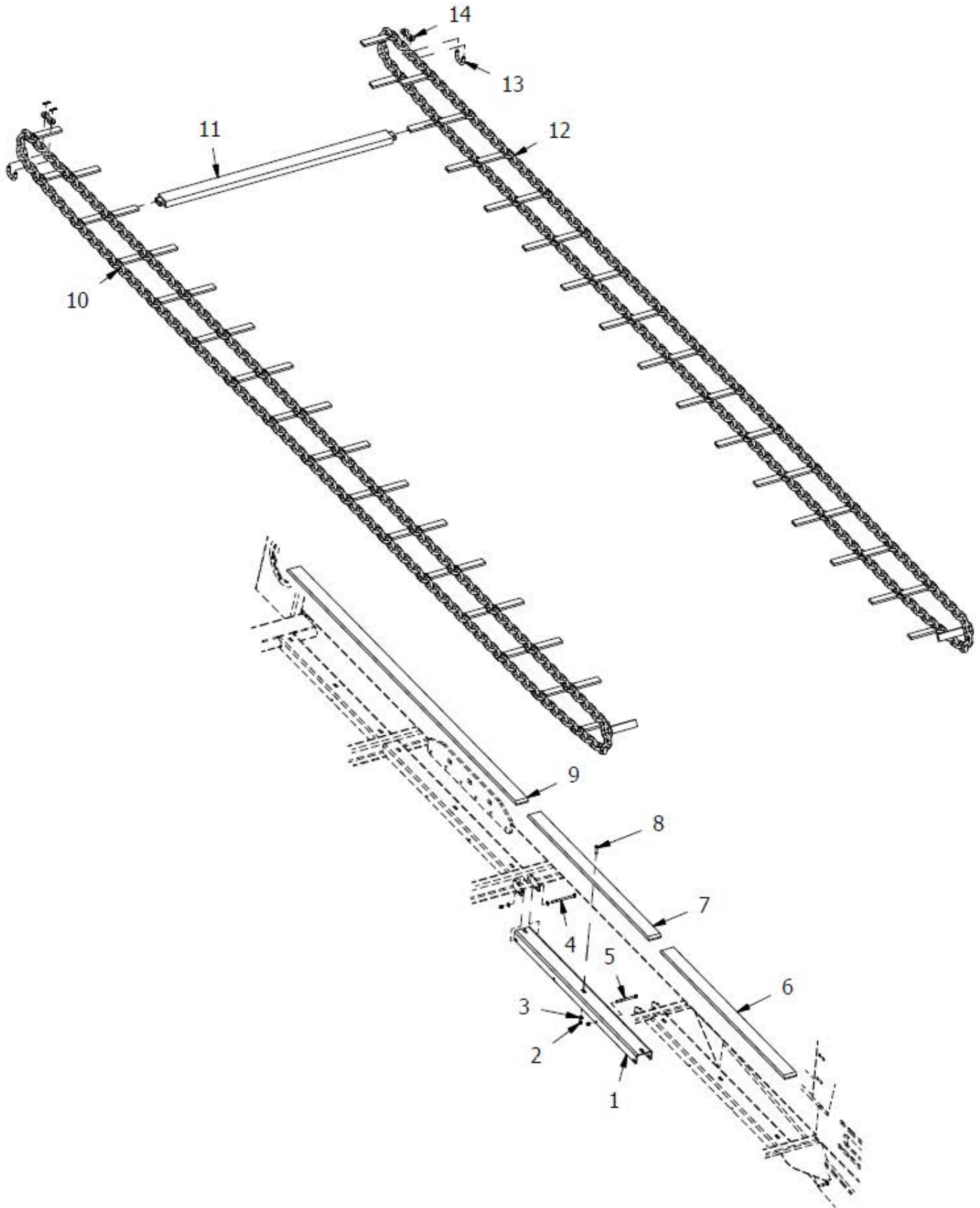
Driveline - SN 14NS301 to Current



Driveline - SN 14NS301 to Current

ITEM	QTY	PART NUMBER	DESCRIPTION	NOTE
1	1	39850	Front PTO (CV)	
2	1	36691	1045 CV Splined Shaft	
3	1	39852	Rear PTO (Over-running Clutch 1 3/4" 6 Spline)	17NS202 - Current
4	1	39851	Rear PTO (Over-running Clutch 1 3/8" 6 Spline)	14NS301 - 16NS230
5	1	BEA UCF208-24R3	Bearing, 1 1/2" 4-Bolt Flange	
6	4	BEA UCP208-24	1.5" Pillow Block Bearing	
7	8	FW 1/2	Flatwasher - 1/2" Zinc Plated USS	
8	12	LN1/2-13NCZ5	LN 1/2-13 Zinc Plated Nylon Insert Lock Nut	
9	12	HB1/2-13X2Z5	Hex Bolt 1/2-13x2 Grade 5 Zinc Plated Hex Cap Screw	

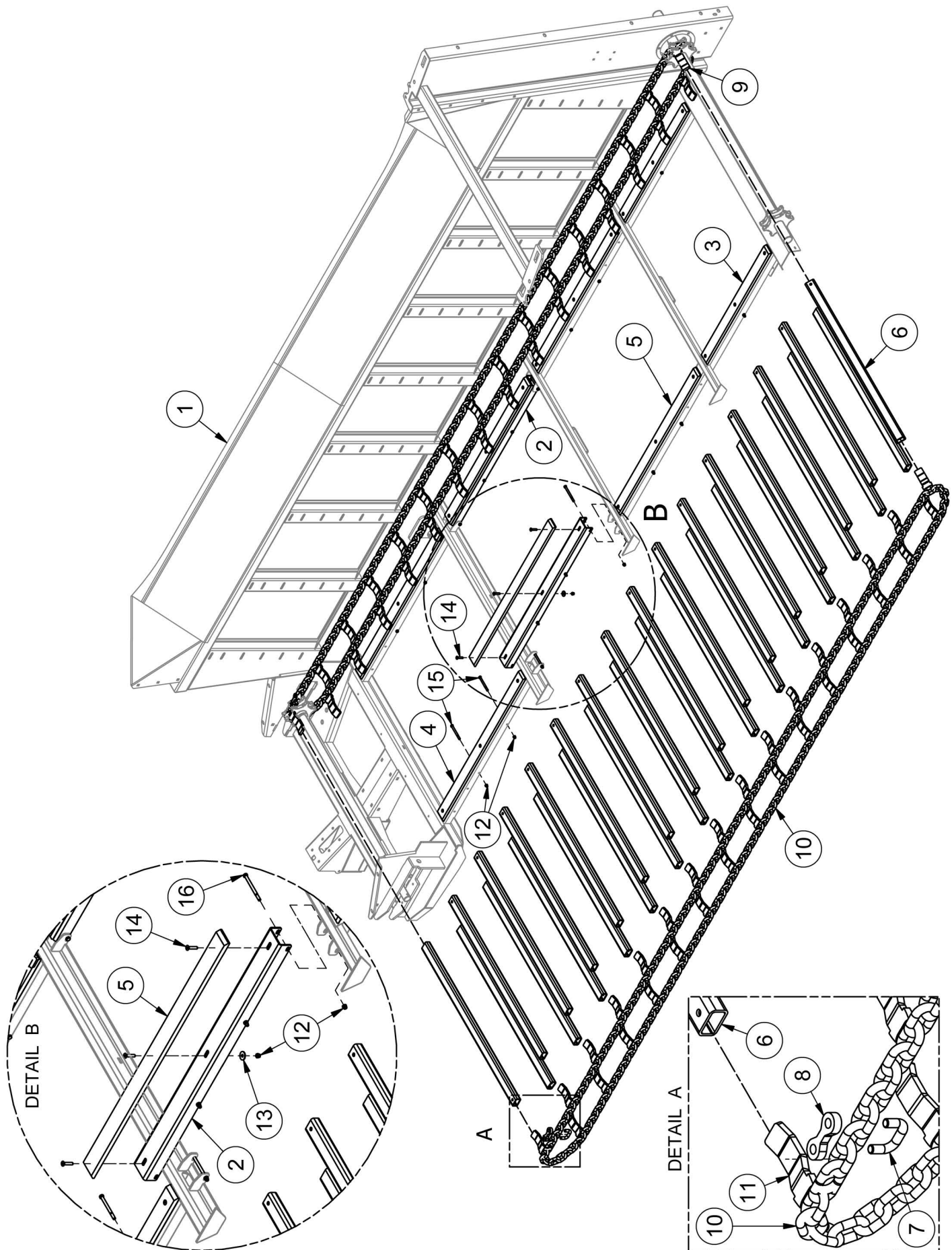
Apron Chain - Up to SN 15NS213



Apron Chain - Up to SN 15NS213

ITEM	QTY	PART NUMBER	DESCRIPTION
1	2	600-779	Apron Runner Mount Bar
2		LN 3/8 N	Locknuts - 3/8-16 Zinc Plated Nylon Insert Lock Nut
3		FW 3/8	Flatwasher Plated, 3/8" Zinc Plated USS (2984)
4	12	HB 3/8-16X4.1/2 Z5	Hex Bolt 3/8"-16 x 4-1/2" Zinc Finish SAE J429 Grade 5 Hex Cap Screw NC
5	4	HB 3/8-16X5.1/4 Z5	Hex Bolt - 3/8"-16 x 5 1/4" Grade 5 Zinc Plated Hex Cap Screw N.C (225)
6	2	600-859	Front Apron Runner
7	2	600-860	Middle Apron Runner
8		HB 3/8-16X1.3/4 FHSCS	Hex Bolt - 3/8-16 x 1 3/4" Flat Socket Head Cap Screw (Stainless Steel)
9	2	600-858	Rear Apron Runner
10	1	600-339	Apron Chain w/ Lugs
11	31	400-914	Apron Slat
12	1	600-338	Apron Chain w/ Lugs
13	2	400-889	Chain Connector Link
14	2	400-890	Chain Connector Tab

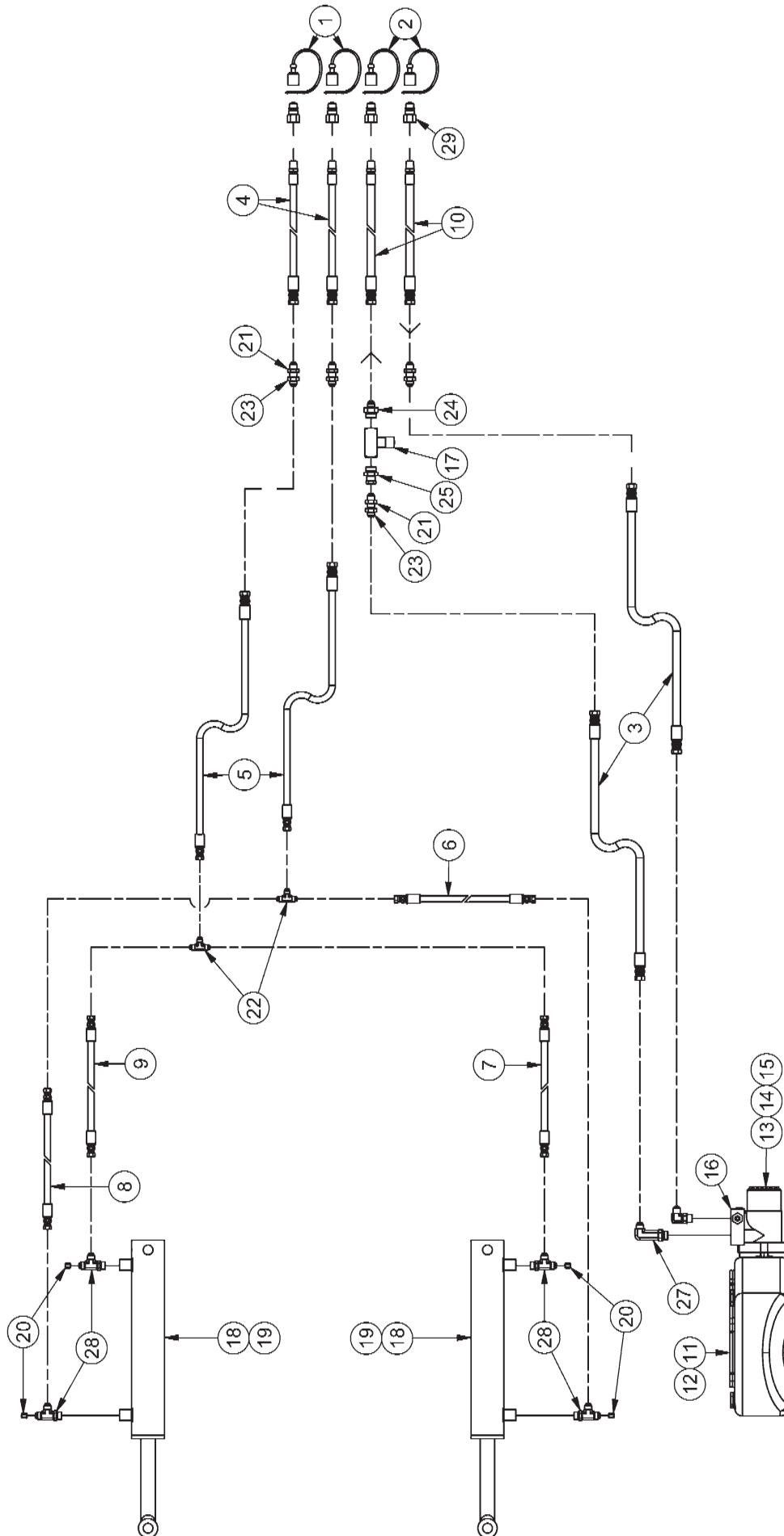
Apron Chain - SN 15NS214 to Current



Apron Chain - SN 15NS214 to Current

ITEM	QTY	PART NUMBER	DESCRIPTION	NOTE
1	1	37300	Nitro 600 Base	
2	2	600-779	Apron Runner Mount	
3	2	600-858	Rear Apron Runner	
4	2	600-859	Front Apron Runner	
5	4	600-860	Mid Apron Runner	
6	31	37820	Apron Slat	
7	2	400-889	Chain Connector Link	
8	2	400-890	Chain Connector Link Tab	
9	1	40711	Right Chain w/ Lugs	Inc. Item 10
10	1	40712	Left Chain w/ Lugs	Inc. Item 10
11	31	37870	5/8 Chain Lug	Qty/Side
12	44	LN3/8-16NCZ5	LN 3/8-16 Zinc Plated Nylon Insert Lock Nut	
13	24	FW 3/8	Flatwasher - 3/8" Zinc Plated USS	
14	24	FHSCS3/8-16X1.75	Flat Socket Cap Screw 3/8"-16 x 1 3/4"	
15	16	HB3/8-16X4.5Z5	Hex Bolt 3/8-16x4 1/2 Gr.5 Zinc Plated	
16	4	HB3/8-16X5Z5	Hex Bolt 3/8-16x5 Gr.5 Zinc Plated	

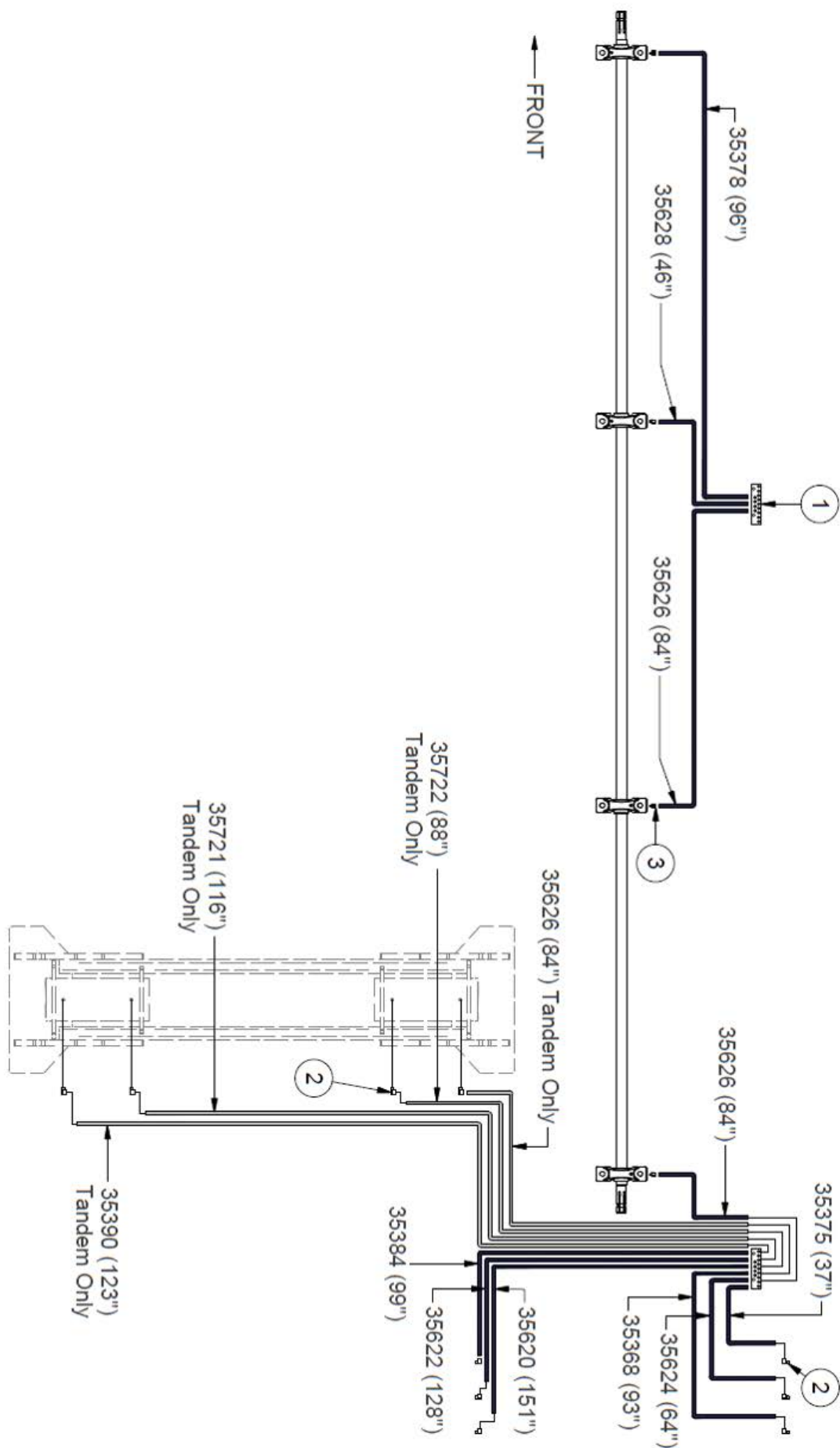
Hydraulic Schematic



Hydraulic Schematic

ITEM	QTY	PART NUMBER	DESCRIPTION	NOTE
1	2	22946-2	Dust Cap, 1/2", Female, Yellow Colour	
2	2	22946-4	Dust Cap, 1/2", Female, Red Colour	
3	2	30650	Hose - HH308 8AT1(8FJXH-8FJXH) HCL 308"	
4	2	30654	Hose - HH73- 6AT1(8FJXH-8MP HCL 73"	
5	2	30655	Hose - HH297- 6AT1(8FJXH-6FJXH) HCL 297"	
6	1	30656	Hose - HH145- 6AT1(6FJXH-6FJXH) HCL 145"	
7	1	30657	Hose - HH79- 6AT1(6FJXH-6FJXH) HCL79"	
8	1	30658	Hose - HH95- 6AT1(6FJXH-6FJXH)HCL 95"	
9	1	30659	Hose - HH29- 6AT1(6FJXH-6FJXH) HCL29	
10	2	30661	Hose - HH69- 8AT1(8FJXH-8MP) HCL69"	
11	1	30842	Gear Box- Berma- V600 Spreaders (RT500)	Up to 23NS210
12	1	49995	CNM500 Apron Gear Box	23NS211-Current
13	1	30854	Hydraulic Motor - Spreaders	Standard
14	1	40718	Hydraulic Motor - Speed Sensor	Req. Scale Option
15	1	SK-SMRS-SK	Gearbox Motor Seal Kit	
16	1	30856	Cross Over Relief Valve	
17	1	30857	Flow Control Valve - 3/4"	
18	2	CYL31732	2 x 69.5 x 1.5 Hydraulic Cylinder	
19	2	SKFH20-15	Seal Kit for 2" Cylinder Bore (Frankor) w/ 1.5" Rod	
20	4	HF 0304C-06	JIC #6 Cap	
21	4	HF 306-8	Hyd Fitting 1/2 Adjustable Locknut	
22	2	HF 2603-6-6-6	Male JIC Tee	
23	4	HF 2700LN-08-08	Hydraulic Fitting - MJIC to MJIC	
24	1	HF 6400-8-12	Hyd. Fitting	Replaces HF2404-8-12
25	1	HF 6402-12-8	Hyd. Fitting #12 Male O-Ring to #8 F JIC	Replaces HF6505-12-8
26	1	HF 6801-8-10	Hyd. Fitting - 1/2" JIC - 5/8" 90° Elbow	
27	1	HF 6801-8-10-LL	Hyd. Fitting - 1/2" JIC - 5/8" 90 Degree Elbow	
28	4	HF 6804-8-8-8	Hydraulic Tee Fitting	
29	4	HF 8010-4	Quickcoupler 1/2" Male Tip	

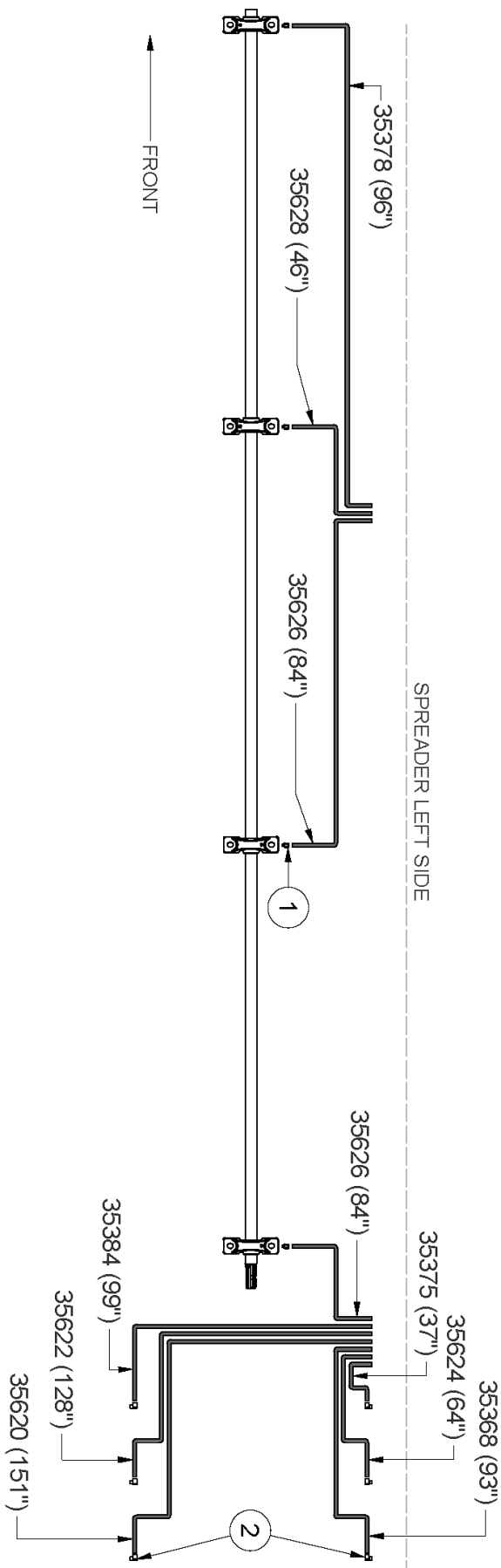
Grease Line Schematic - Up to SN 15NS406



Grease Line Schematic - Up to SN 15NS406

ITEM	QTY	PARTNUMBER	DESCRIPTION
1	2	GR 21999-0419	Block Grease Bank Manifold
2	8	35617	HF 5404-2-4 Hydraulic Fitting
3	6	35618	HF 5502-2-2 Hydraulic Fitting

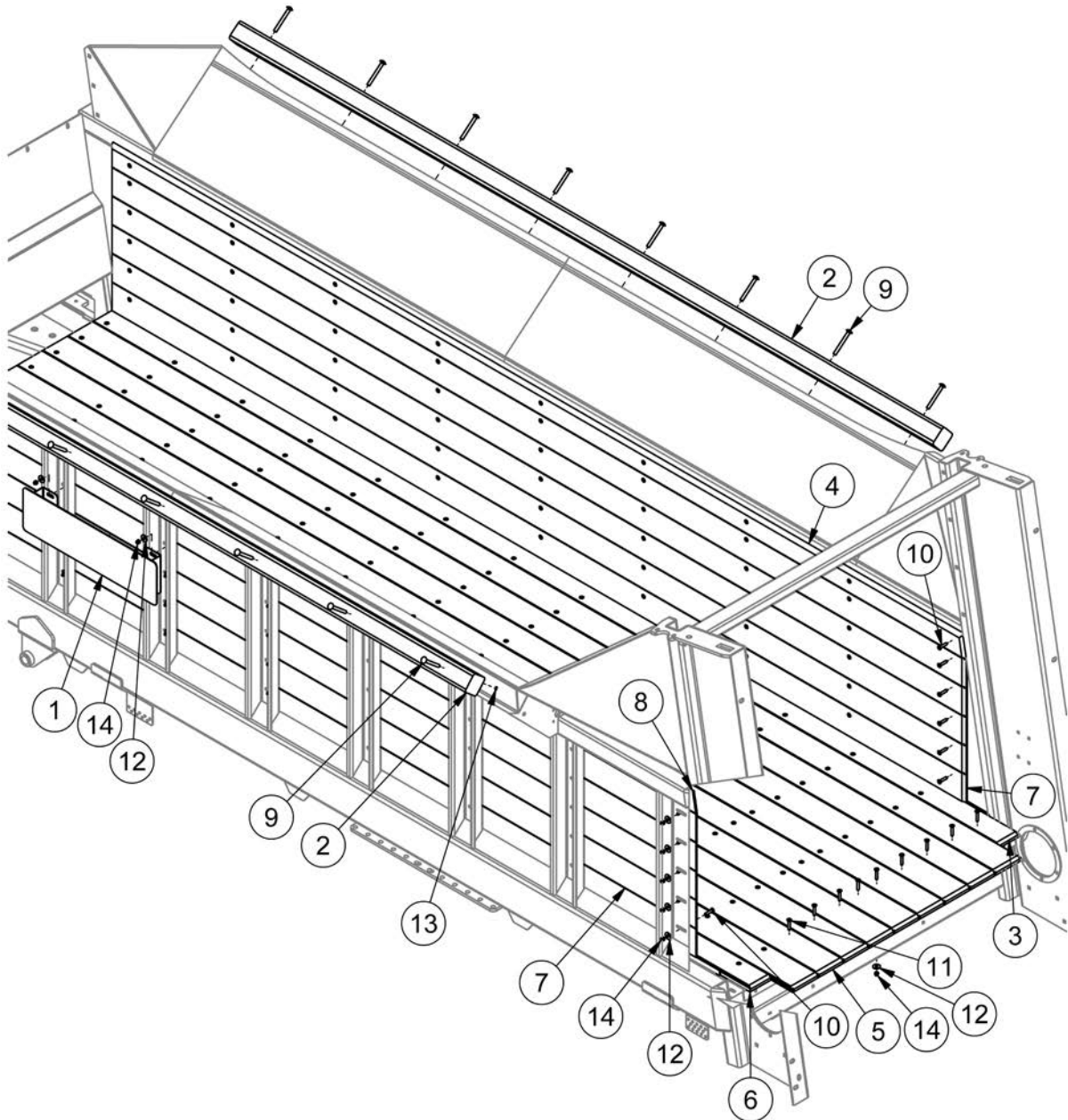
Grease Line Schematic - SN 15NS407 to Current



Grease Line Schematic - SN 15NS407 to Current

ITEM	QTY	PARTNUMBER	DESCRIPTION
1	4	35617	HF 5404-2-2 Hydraulic Fitting
2	6	35618	HF 5502-2-2 Hydraulic Fitting

Side - Floor Boards



ITEM	QTY	PART NUMBER	DESCRIPTION
1	2	30812	Side Decal Mount
2	2	31340	Pressure Treated Bumper
3	1	31580	Right Trimmed Floor Board
4	1	31581	Right Top Side Board
5	9	600-852	Floor Board
6	1	600-854	Left Trimmed Floor Board
7	10	600-855	Side Board
8	1	600-857	Left Top Side Board
9	16	CB1/2-13X4.5CZ5	Carriage Bolt - 1/2-13 x 4 1/2" Grade 5 Zinc
10	108	FHSCS3/8-16X1.75	Hex Bolt - 3/8"-16 x 1 3/4" Flat Socket Cap Screw
11	154	FHSCS3/8-16X2	Hex Bolt - 3/8"-16 x 2" Flat Socket Cap Screw
12	262	FW 3/8	Flatwasher - 3/8" Zinc Plated USS
13	16	HNC1/2	Serrated Hex Nut
14	262	LN3/8-16NCZ5	LN 3/8-16 Zinc Plated Nylon Insert Lock Nut

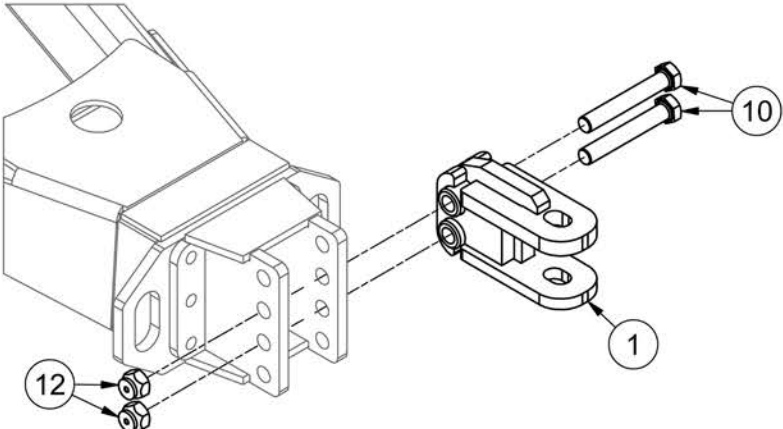
Section 3 - Options

Optional Kit Numbers

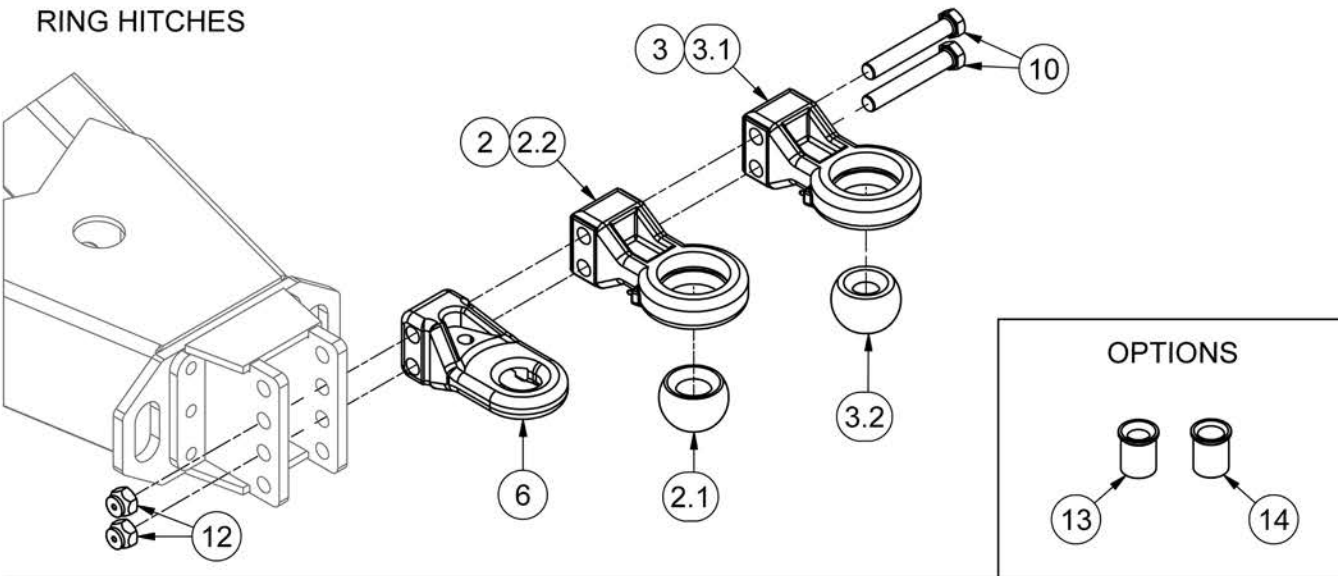
KIT NUMBER	DESCRIPTION	PAGE(S)	NOTE
	Hitches	Pg.3-2,3	
43674	Mechanical Light Kit	Pg.3-4,5	
TLVLK-600M	Manual Light Kit		
	Light Kit Base	Pg.3-6,7	
	Manual Light Kit	Pg.3-8	
	Wiring Harness	Pg.3-12,13	
TLVLK-600	Hydraulic Light Kit		
	Light Kit Base	Pg.3-6,7	
	Hydraulic Light Kit Cylinders	Pg.3-9	
	Hydraulic Light Kit Hoses	Pg.3-10,11	
	Wiring Harness	Pg.3-12,13	
N600SB	Single Brake System	Pg.3-14	
N600TB	Tandem Brake System	Pg.3-15	
N750LC	5 Point Scale System	Pg.3-16	
N750LCNT460	5 Point Scale System with GPS	Pg.3-16	
N750LCNT8000	Automatic Scale Rate Control Base System	Pg.3-17	
	Flow Control Mounting	Pg.3-18	
31797	Electric Flow Control		
	Flow Control Hydraulic Layout - Electric	Pg.3-20,21	
	Electric Flow Control Wiring	Pg.3-22,23	
31578	Manual Flow Control		
	Flow Control Hydraulic Layout - Manual	Pg.3-19	
TLVSSE600	Silage Sides	Pg.3-24,25	
41504	Flange Paddle Kit	Pg.3-26,27	
45816	Endgate Indicator Kit	Pg.3-28,29	

Hitch Options

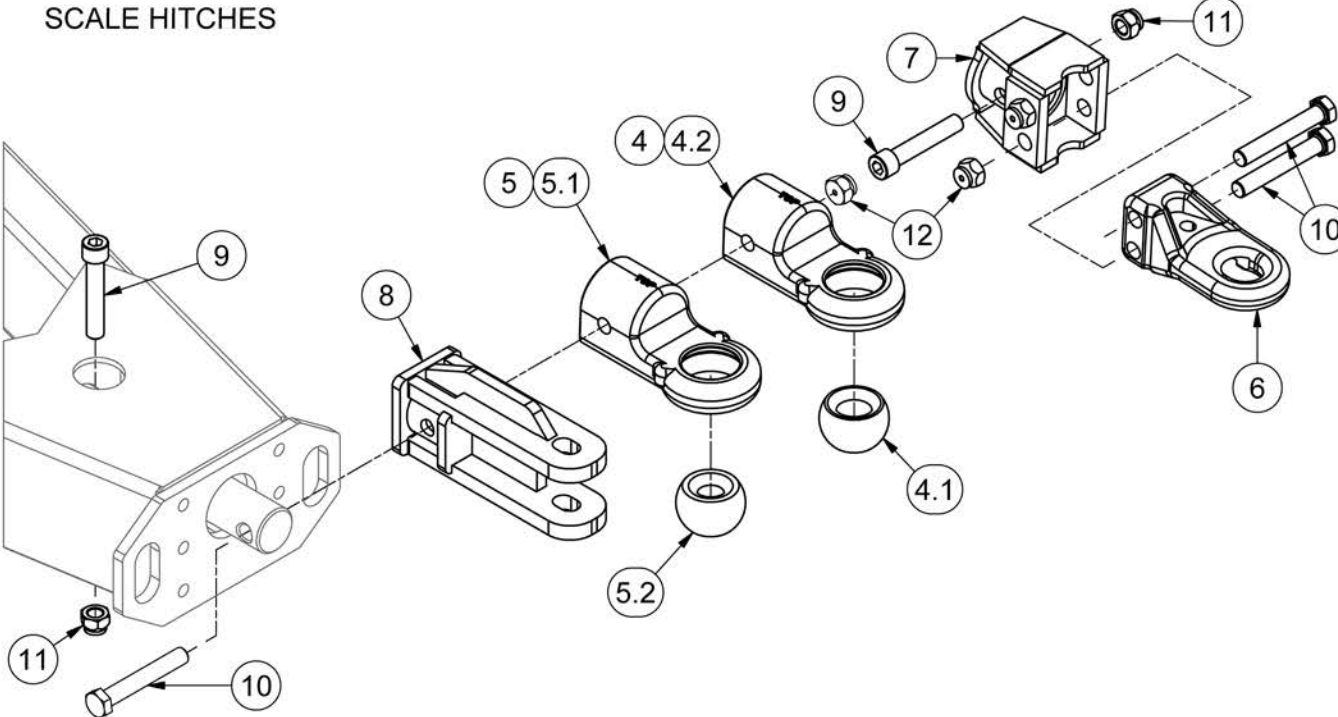
CLEVIS HITCH



RING HITCHES



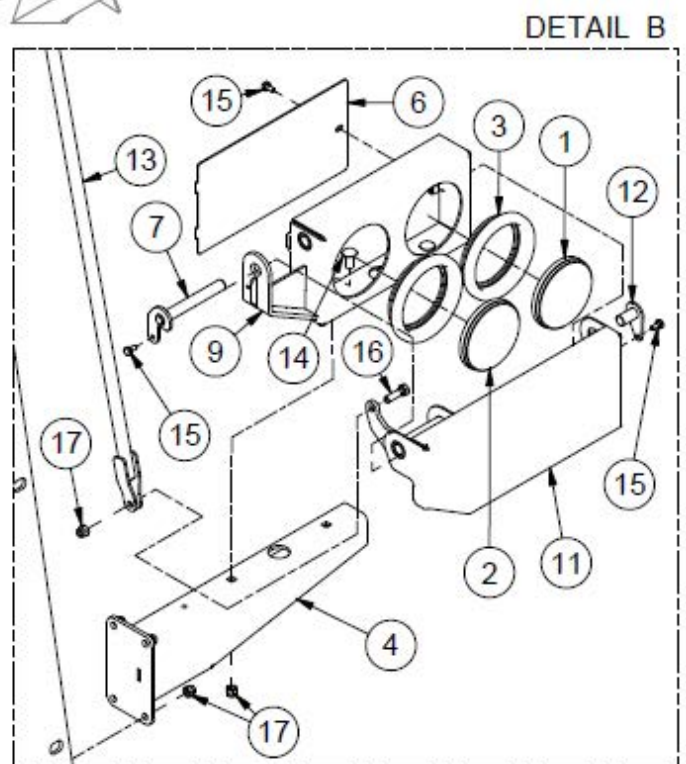
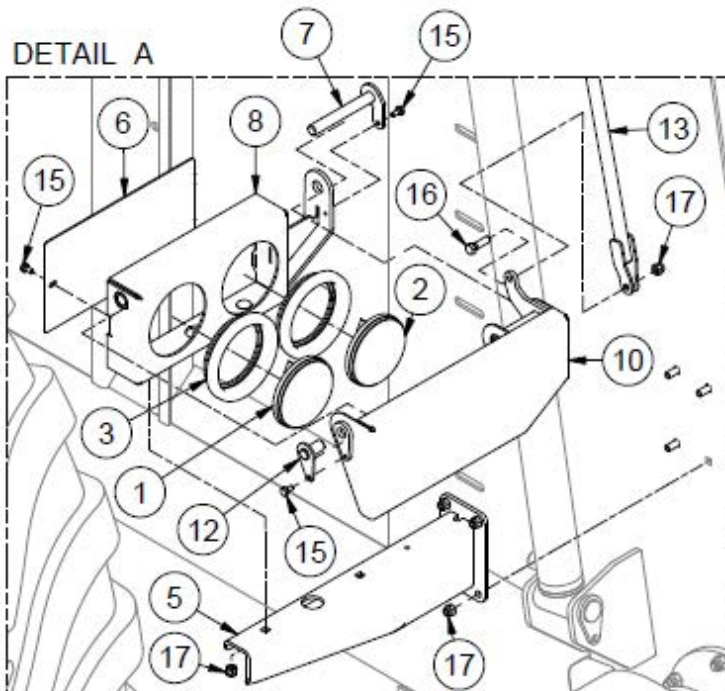
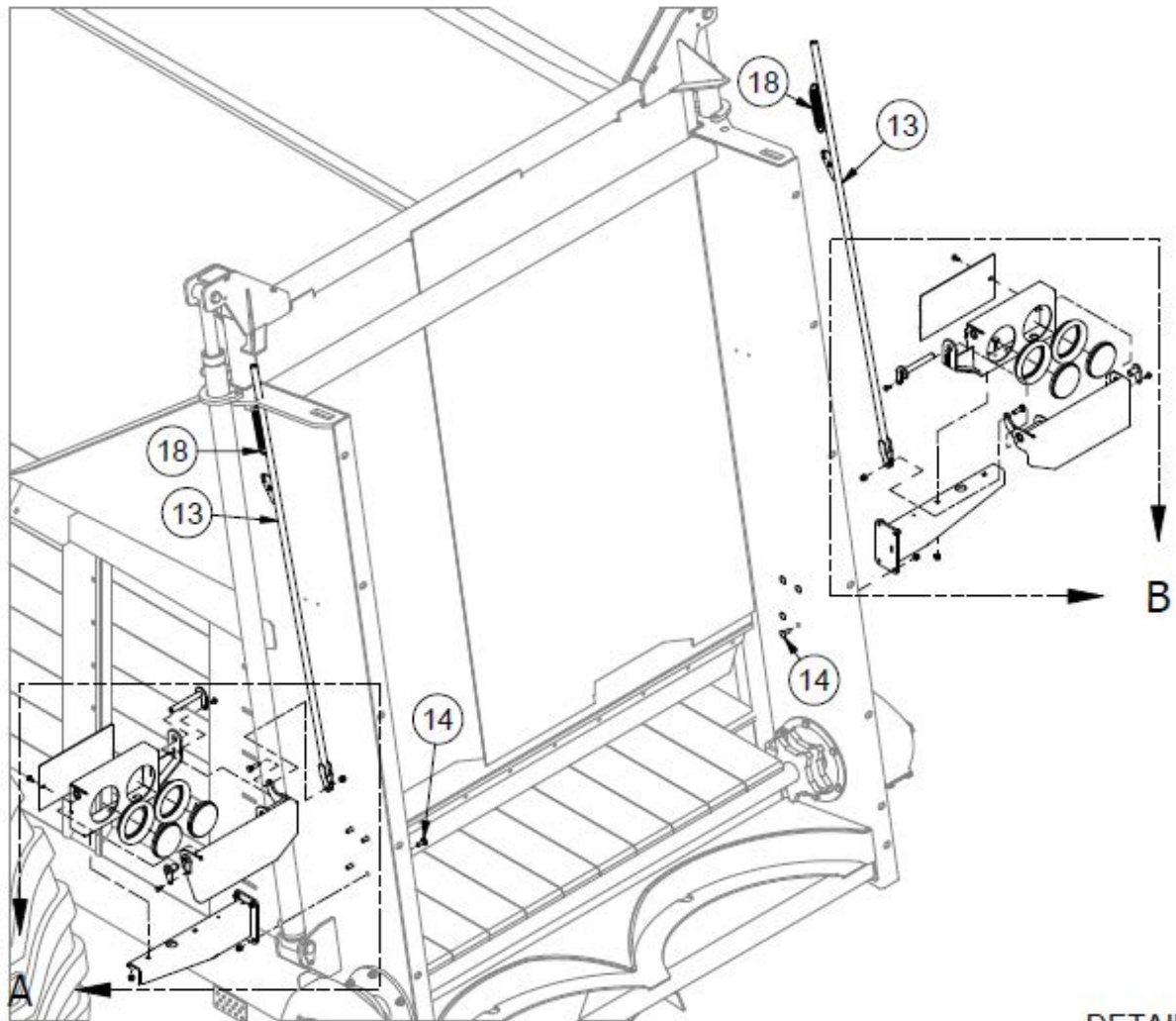
SCALE HITCHES



Hitch Options

ITEM	QTY	PART NUMBER	DESCRIPTION	WHERE USED	NOTE
1	1	40471	Clevis Hitch Weldment	Up to N575RS	Standard - Replaces 30826
2		39290	Power Pin Cat 3 Ball Hitch Assembly 2" Pin	All Models	Option
2.1	1	39291	Power Pin 2" Ball Cat.3 Hitch		
2.2	1	44994	Power Pin Cat.3 Ball Hitch Base		
3		40865	Power Pin Cat 3 Ball Hitch Assembly 1.5" Pin	All Models	Option
3.1	1	44994	Power Pin Cat.3 Ball Hitch Base		
3.2	1	39994	Power Pin 1.5" Ball Cat.3 Hitch		
4		41956	Rollover Ball Hitch 2.0" ID Cat.4	All Models	Requires Scale Option
4.1	1	39291	Power Pin 2" Ball Hitch		Category 3 & 4
4.2	1	45033	Articulating Ball Hitch Base		
5		45034	Rollover Ball Hitch 1.5" ID Cat.4	All Models	Requires Scale Option
5.1	1	45033	Articulating Ball Hitch Base		
5.2	1	39994	Power Pin 1.5" Ball Cat.3 Hitch		
6		32853	Cat.4 Hitch Base	N600 - N1050	Standard - Replaces 43060
7	1	36241	Cell Hitch		Requires Scale Option
8	1	42550	Cell Clevis Hitch	275RS - 575RS	Requires Scale Option
9		SHCS1-8X5.5	Hex Bolt - 1-8 x 5 1/2 Socket Head Cap Screw		
10		HB1-14X6.5YZ8	Hex Bolt 1-14x6 1/2 Grade 8 Zinc Hex Cap Screw		
11		LN1-8NCZ5	LN 1-8 Zinc Plated Nylon Insert Lock Nut		
12		LN1-14NFZ5	Center Locknuts (1-14) 2-Way Fine Thread		
13	1	45826	Hitch Insert Bushing (2.0"-1.25")	Optional	Requires hitch with 2" Ball
14	1	45827	Hitch Insert Bushing (2.0"-1.5")	Optional	Requires hitch with 2" Ball

Mechanical Light Kit - 43674 - SN 19NS201 to Current

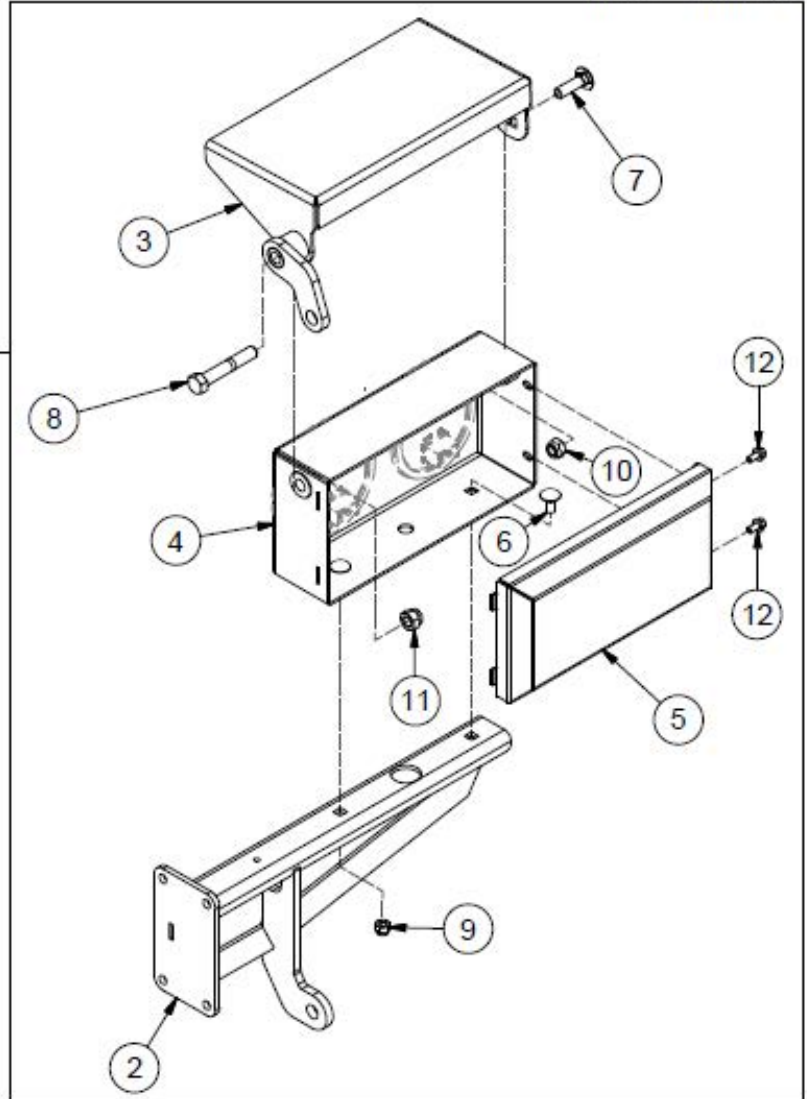


Mechanical Light Kit - 43674 - SN 19NS201 to Current

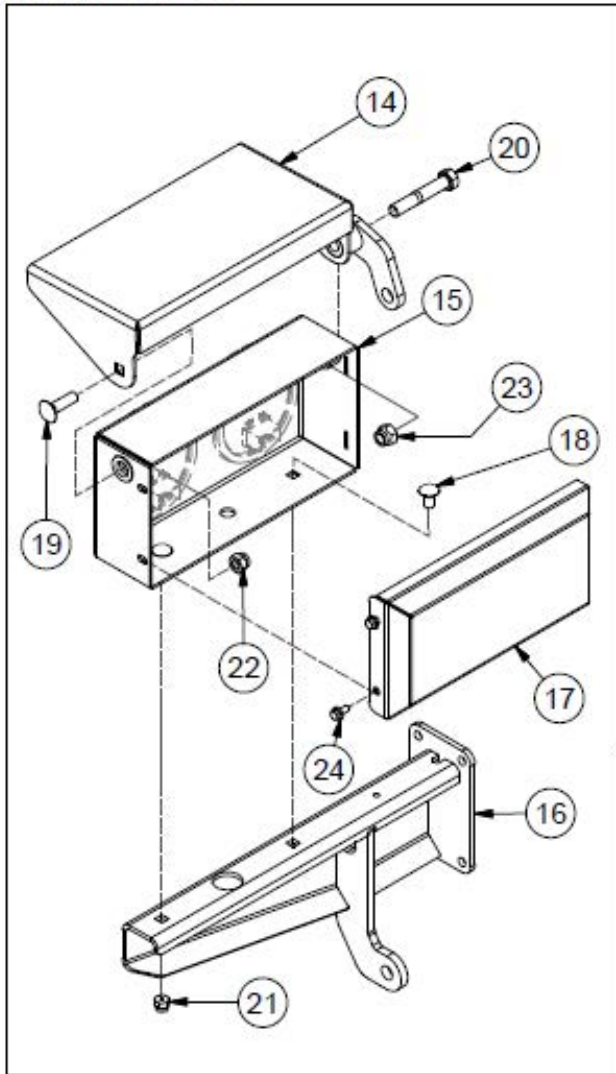
ITEM	QTY	PART NUMBER	DESCRIPTION
1	2	31788	Red LED Light for Nitro Spreader
2	2	31789	Amber LED Light for Nitro Spreader
3	4	31798	Grommet for LED Lights on Nitro
4	1	42139	Right Light Bracket
5	1	42140	Left Light Bracket
6	2	43178	Light Box Cover
7	2	43204	Inner Pin Assembly
8	1	43206	Left Light Box Assembly
9	1	43207	Right Light Box Assembly
10	1	43208	Left Light Cover
11	1	43209	Right Light Cover
12	2	43213	Outer Pin Assembly
13	2	43214	600 Manual Light Push Arm
14	12	CB 3/8-16 X1 Z5	Carriage Bolt - 3/8-16 x 1" Grade 5 Zinc
15	6	HB 1/4-20X0.5 Z5	Hex Bolt 1/4-20x1/2 Grade 5 Zinc Plated Hex Cap Screw
16	2	HB 3/8-16X1.25 Z5	Hex Bolt 3/8-16x1 1/4 Grade 5 Zinc Plated Hex Cap Screw
17	14	LN 3/8 N	LN 3/8-16 Zinc Plated Nylon Insert Lock Nut
18	2	PP00679	Spring 2-TE 86B (AC-08044)

Light Kit Base - Up to SN 18NS228

Item 1 - 400-850



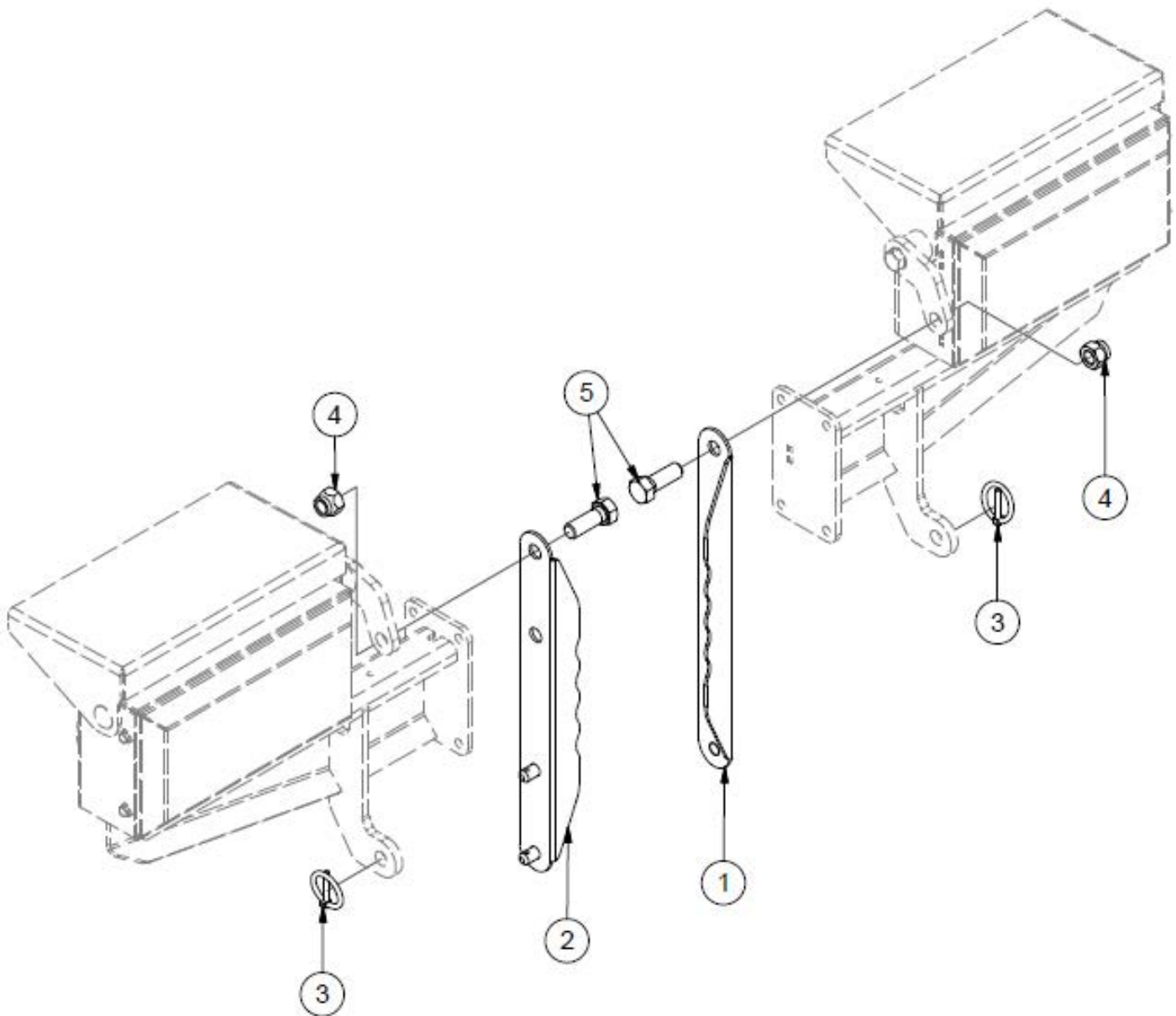
Item 13 - 400-855



Light Kit Base - Up to SN 18NS228

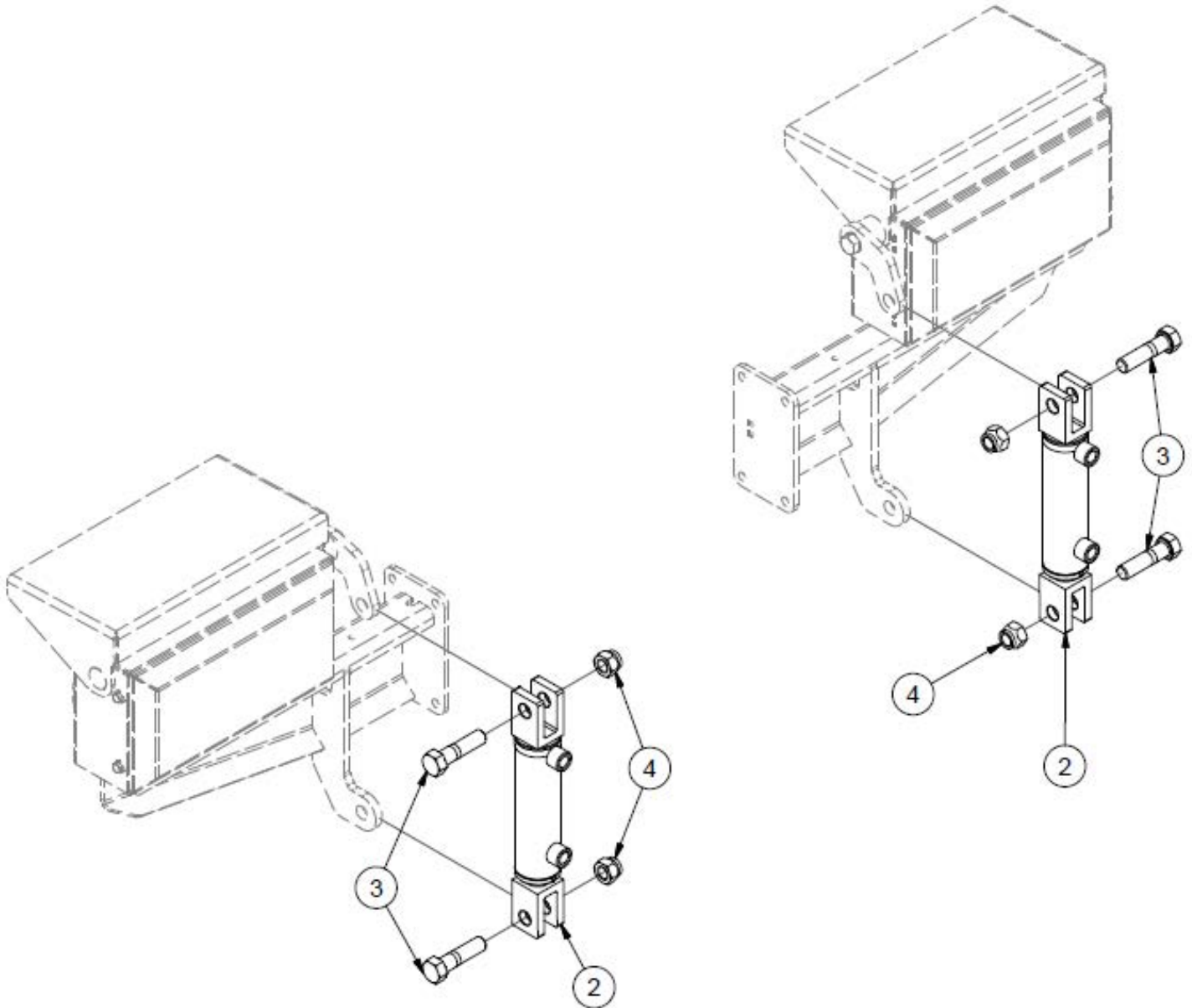
ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	400-850	Left Light Assembly
2	1	400-354	Left Light Mount Bar
3	1	400-939	Left Light Cover
4	1	400-940	Left Light Housing
5	1	400-943	Light Housing Lid
6	2	CB 3/8-16X 3/4 Z5	Carriage Bolt - 3/8-16 x 3/4" Grade 5 Zinc
7	1	CB 7/16-14X1.1/2 Z5	Carriage Bolt - 7/16-14 x 1 1/2" Grade 5 Zinc
8	1	HB 1/2-13X3.0 Z5	Hex Bolt 1/2-13 x 3" Grade 5 Zinc Plated Hex Cap Screw NC
9	2	LN 3/8 N	Locknuts - 3/8-16 Zinc Plated Nylon Insert Lock Nut
10	1	LN 7/16	Center Locknuts - 7/16-14 Top Lock Nut
11	1	LN 1/2 N	Locknuts - 1/2-13 Zinc Plated Nylon Insert Lock Nut
12	2	HBC14X12	Hex Bolt 1/4-20 x 1/2 Grade 8.2 Zinc Flange Bolt SAE
13	1	400-855	Right Light Assembly
14	1	400-355	Right Light Cover
15	1	400-356	Right Light Housing
16	1	400-941	Right Light Mounting Bar
17	1	400-943	Light Housing Lid
18	2	CB 3/8-16X 3/4 Z5	Carriage Bolt - 3/8-16 x 3/4" Grade 5 Zinc
19	1	CB 7/16-14X1.1/2 Z5	Carriage Bolt - 7/16-14 x 1 1/2" Grade 5 Zinc
20	1	HB 1/2-13X3.0 Z5	Hex Bolt 1/2-13 x 3" Grade 5 Zinc Plated Hex Cap Screw NC
21	2	LN 3/8 N	Locknuts - 3/8-16 Zinc Plated Nylon Insert Lock Nut
22	1	LN 7/16	Center Locknuts - 7/16-14 Top Lock Nut
23	1	LN 1/2 N	Locknuts - 1/2-13 Zinc Plated Nylon Insert Lock Nut
24	2	HBC14X12	Hex Bolt 1/4-20 x 1/2 Grade 8.2 Zinc Flange Bolt SAE

Manual Light Kit - Up to SN 18NS228



ITEM	QTY	PART NUMBER	DESCRIPTION
	1	37773	Manual Light Kit Assembly
1	1	37771	Left Light Lid Link
2	1	37772	Right Light Lid Link
3	2	25680	Lynch Pin 3/16 x 1.5
4	2	LN 5/8 N	Locknut - 5/8-11 Zinc Plated Nylon Insert Lock Nut
5	2	HB 5/8-11X1.3/4 Z5	Hex Bolt - 5/8"-11 x 1-3/4" Grade 5 Zinc Plated Hex Cap Screw NC

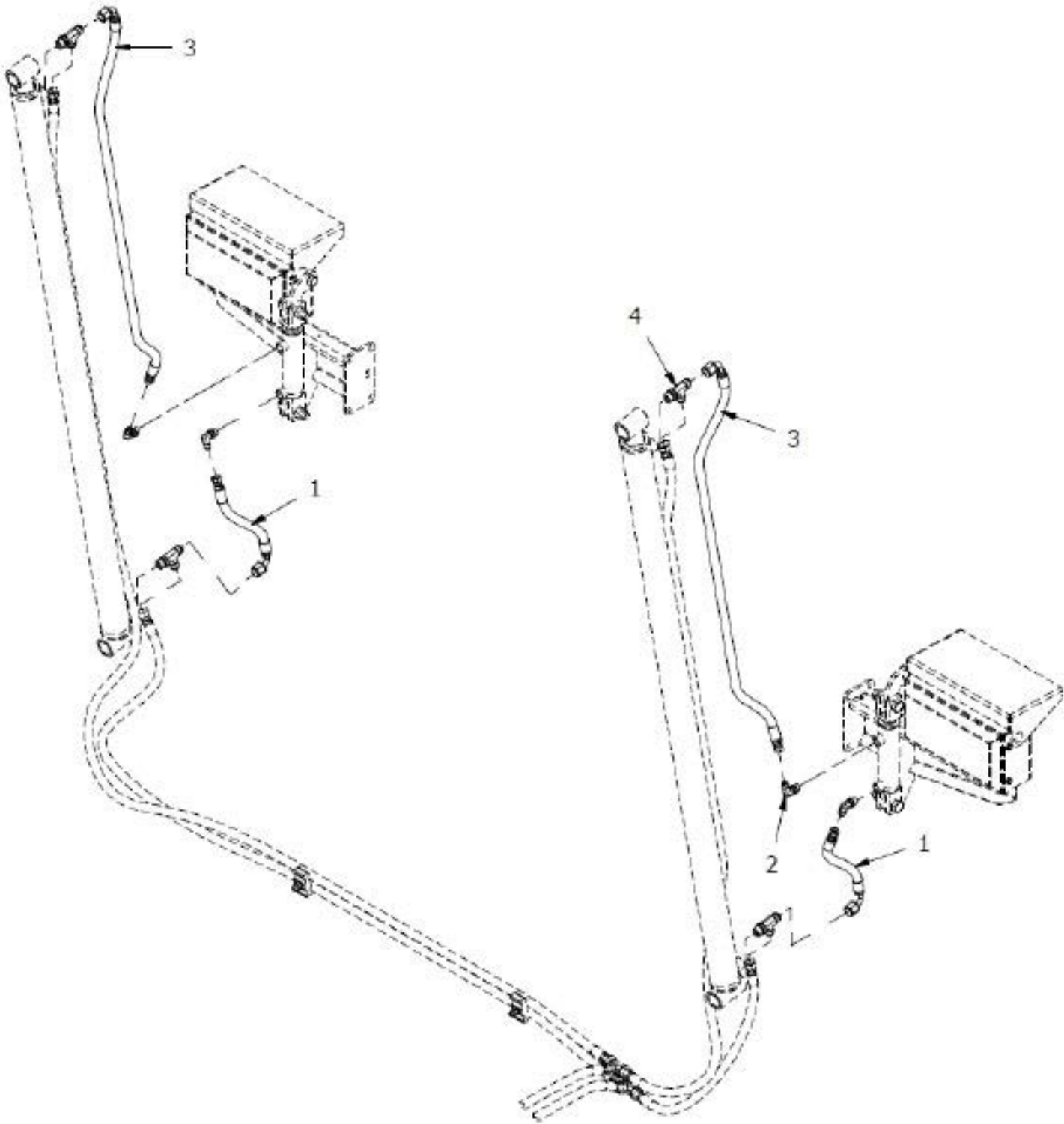
Hydraulic Light Kit Cylinders - Up to SN 18NS228



ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	37768	Complete Hydraulic Kit*
2	2	31326	Hydraulic Cylinder
3	4	HB 5/8-11X2.1/2 Z5	Hex Bolt 5/8-11 x 2 1/2" Grade 5 Zinc Plated Hex Cap Screw NC
4	4	LN 5/8 N	Locknut - 5/8-11 Zinc Plated Nylon Insert Lock Nut

*Includes hose kit on [pages 3-10,11](#).

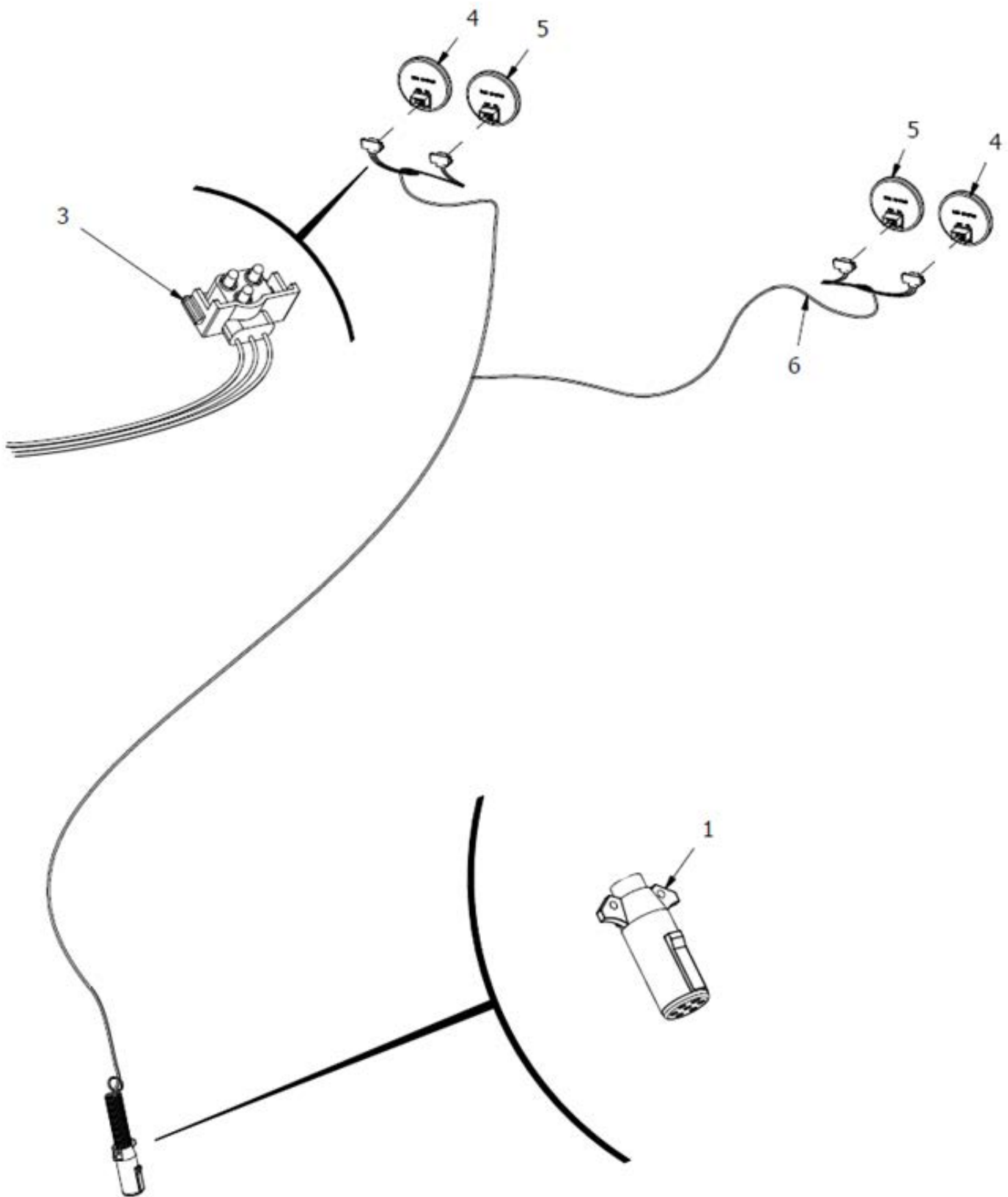
Hydraulic Light Kit Hoses - Up to SN 18NS228



Hydraulic Light Kit Hoses - Up to SN 18NS228

ITEM	QTY	PART NUMBER	DESCRIPTION
1	2	30803	3/8 Hose - 50" (FJX-6, FJX90-6-6)
2	4	HF 6801-6-6	Hydraulic Fitting
3	2	30801	3/8 Hose - 10" (FJX-6, FJX90-6-6)
4	4	HF 6804-6-6	Hydraulic Fitting

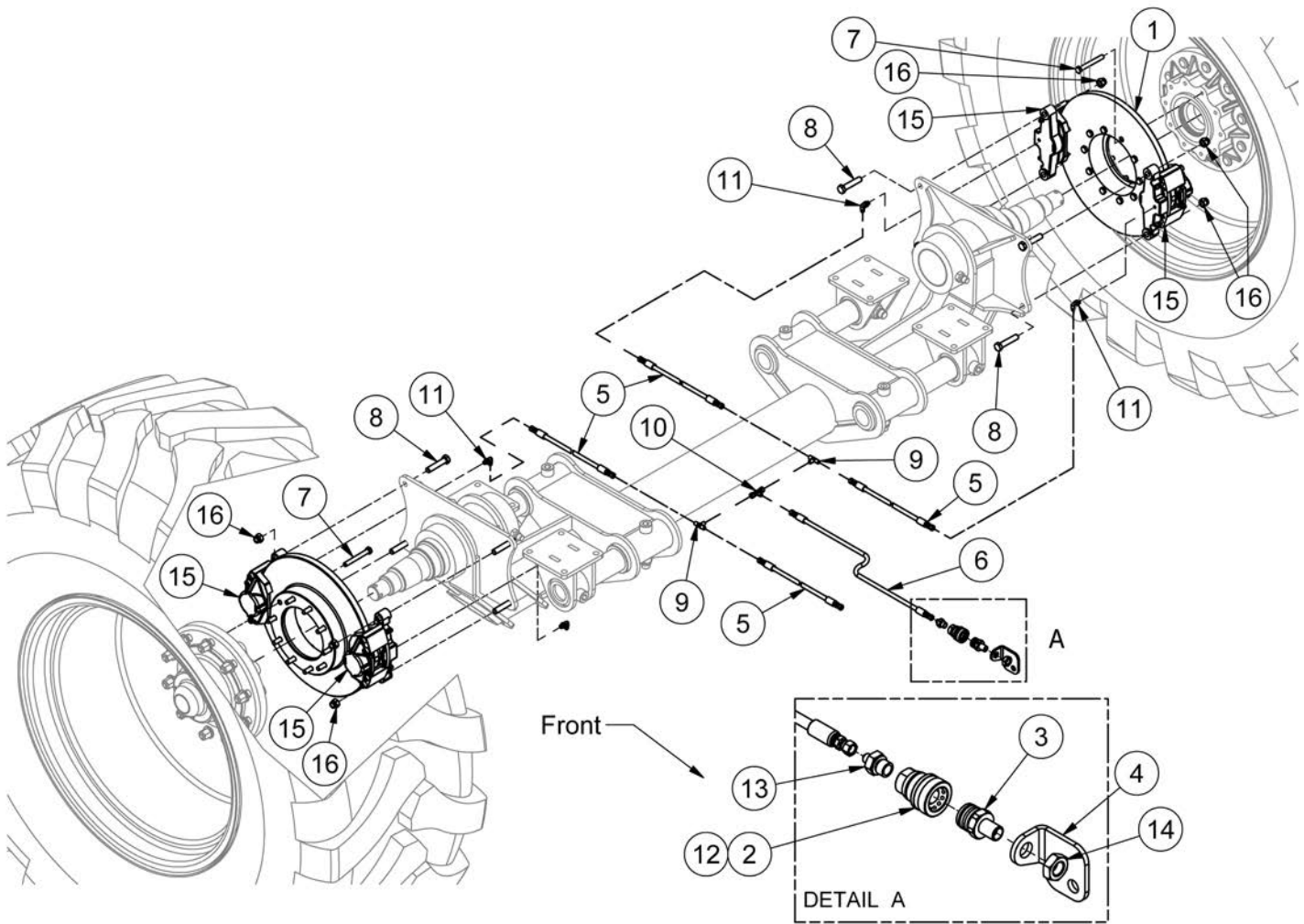
Light Kit Wiring



Light Kit Wiring

ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	TL550-200-117	Female 7 Pin Plug
	4	31798	Light Grommet
3	4	31790	Individual Light Wiring
4	2	31788	Red Tail Light
5	2	31789	Amber Tail Light
6	1	36925	Light Wiring Harness
	1	31574	Complete Wiring Kit

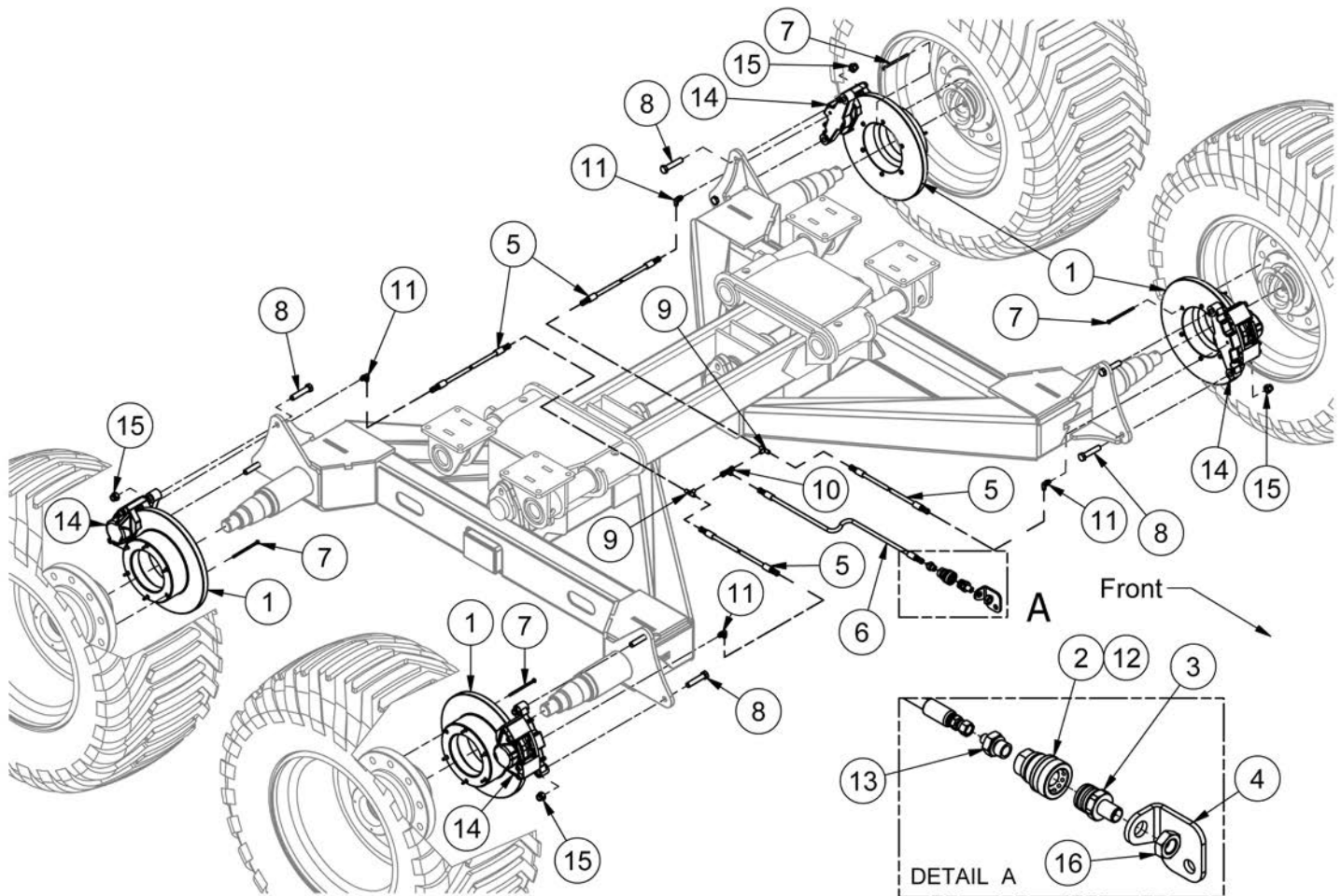
N600SB - Single Axle Brake Kit



*Scale ready axle shown.

ITEM	QTY	PART NUMBER	DESCRIPTION	NOTE
1	4	31773	Rotor for 16000# Hub - 9 Bolt	
2	1	36022	Hyd. Quick Coupler- Female- For Nitro Brakes	Inc. Item 12
3	1	37846	Hyd. Quick Coupler- Male- For Nitro Brakes	
4	1	39292	Brake Fitting Mount	
5	4	39500	Hose - HH76 4AT1(4G4FJX,4G4FJX)HCL76"	
6	1	39501	Hose - HH336 4AT1(4G4FJX,4G4FJX)HCL336"	
7	36	HB1/4-28X4.5YZ8	Hex Bolt 1/4-28x4 1/2 Gr.8 Zinc Hex Cap Screw	
8	8	HB5/8-18X3YZ8	Hex Bolt 5/8-18x3 Gr.8 Zinc Hex Cap Screw	
9	2	HF 2603-4	Hydraulic Fitting - Male JIC Tee	
10	1	HF 6603-4-4-4	T- Fitting JIC	
11	4	HF 6801-4-4	Hydraulic Fitting - 90° O-Ring to JIC	
12	1	HF 9500-18MM	Metric Thread Bonded Seal	
13	1	HF 9606-04-S18	Hydraulic Adaptor - 1/4" JIC/M18-1.5	
14	4	LA-11-1527	16000# Caliper	
15	8	LN5/8-18NFZ8	5/8-18 Gr.8 Zinc Nylon Lock Nut	
16	1	HNJ3/4-10	Hex Nut - 3/4-10 Zinc Plated Hex Jam Nut	

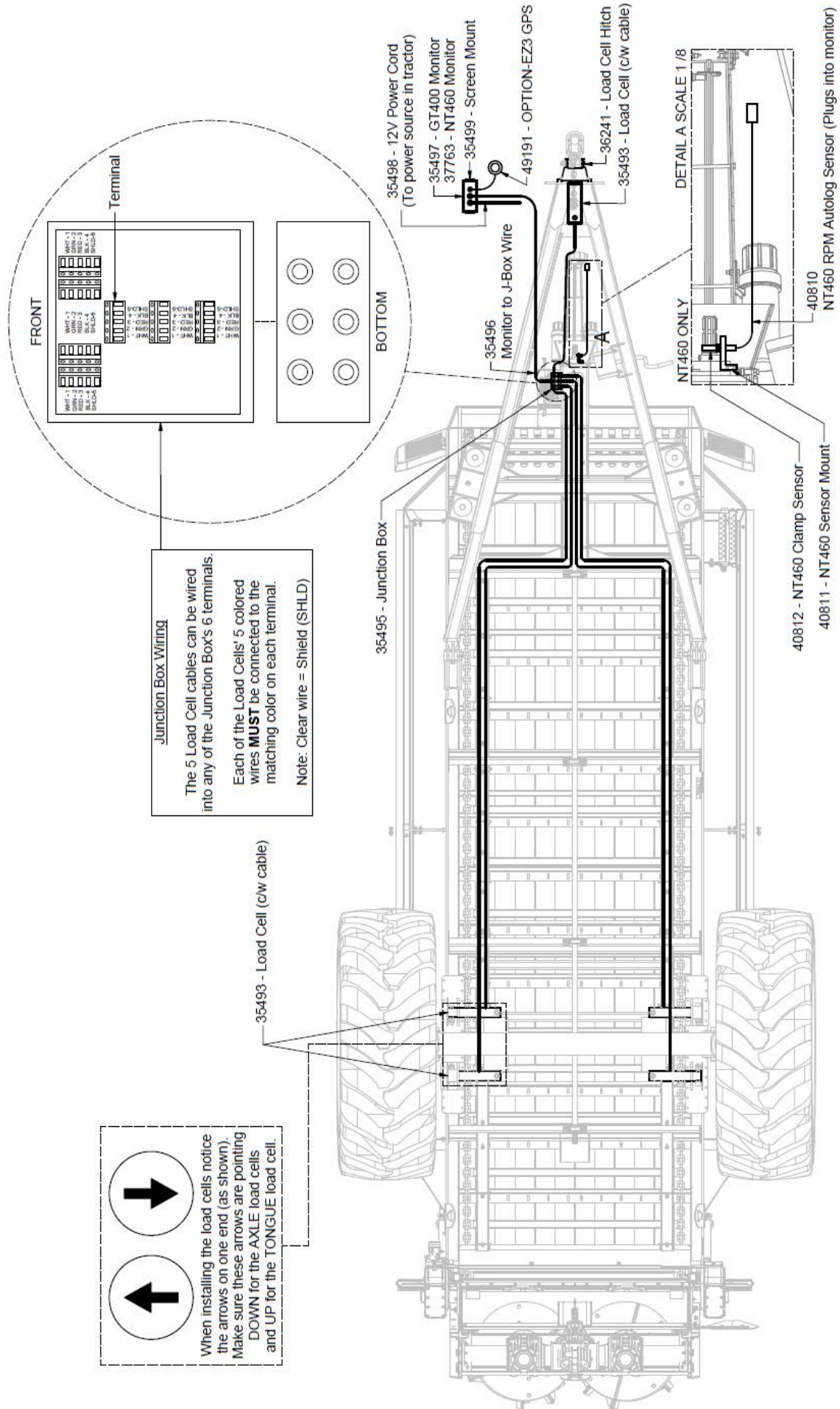
N600TB - Tandem Axle Brake Kit



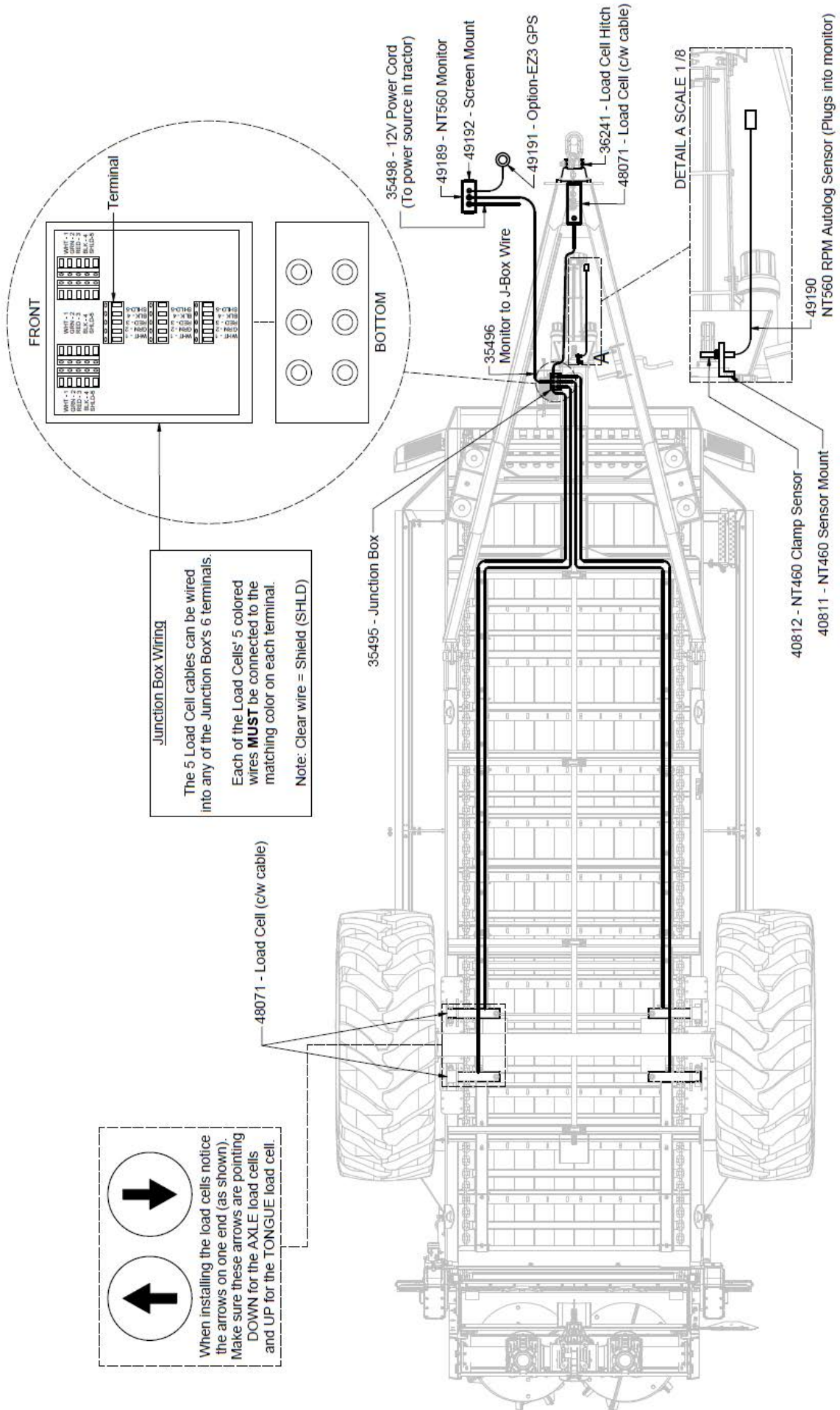
*Scale ready axle shown.

ITEM	QTY	PART NUMBER	DESCRIPTION	NOTE
1	4	31773	Rotor for 16000# Hub - 9 Bolt	
2	1	36022	Hyd. Quick Coupler- Female- For Nitro Brakes	Inc. Item 12
3	1	37846	Hyd. Quick Coupler- Male- For Nitro Brakes	
4	1	39292	Brake Fitting Mount	
5	4	39500	Hose - HH76 4AT1(4G4FJX,4G4FJX)HCL76"	
6	1	39501	Hose - HH336 4AT1(4G4FJX,4G4FJX)HCL336"	
7	36	HB1/4-28X4.5YZ8	Hex Bolt 1/4-28x4 1/2 Gr.8 Zinc Hex Cap Screw	
8	8	HB5/8-18X3YZ8	Hex Bolt 5/8-18x3 Gr.8 Zinc Hex Cap Screw	
9	2	HF 2603-4	Hydraulic Fitting - Male JIC Tee	
10	1	HF 6603-4-4-4	T- Fitting JIC	
11	4	HF 6801-4-4	Hydraulic Fitting - 90° O-Ring to JIC	
12	1	HF 9500-18MM	Metric Thread Bonded Seal	
13	1	HF 9606-04-S18	Hydraulic Adaptor - 1/4" JIC/M18-1.5	
14	4	LA-11-1527	16000# Caliper	
15	8	LN5/8-18NFZ8	5/8-18 Gr.8 Zinc Nylon Lock Nut	
16	1	HNJ3/4-10	Hex Nut - 3/4-10 Zinc Plated Hex Jam Nut	

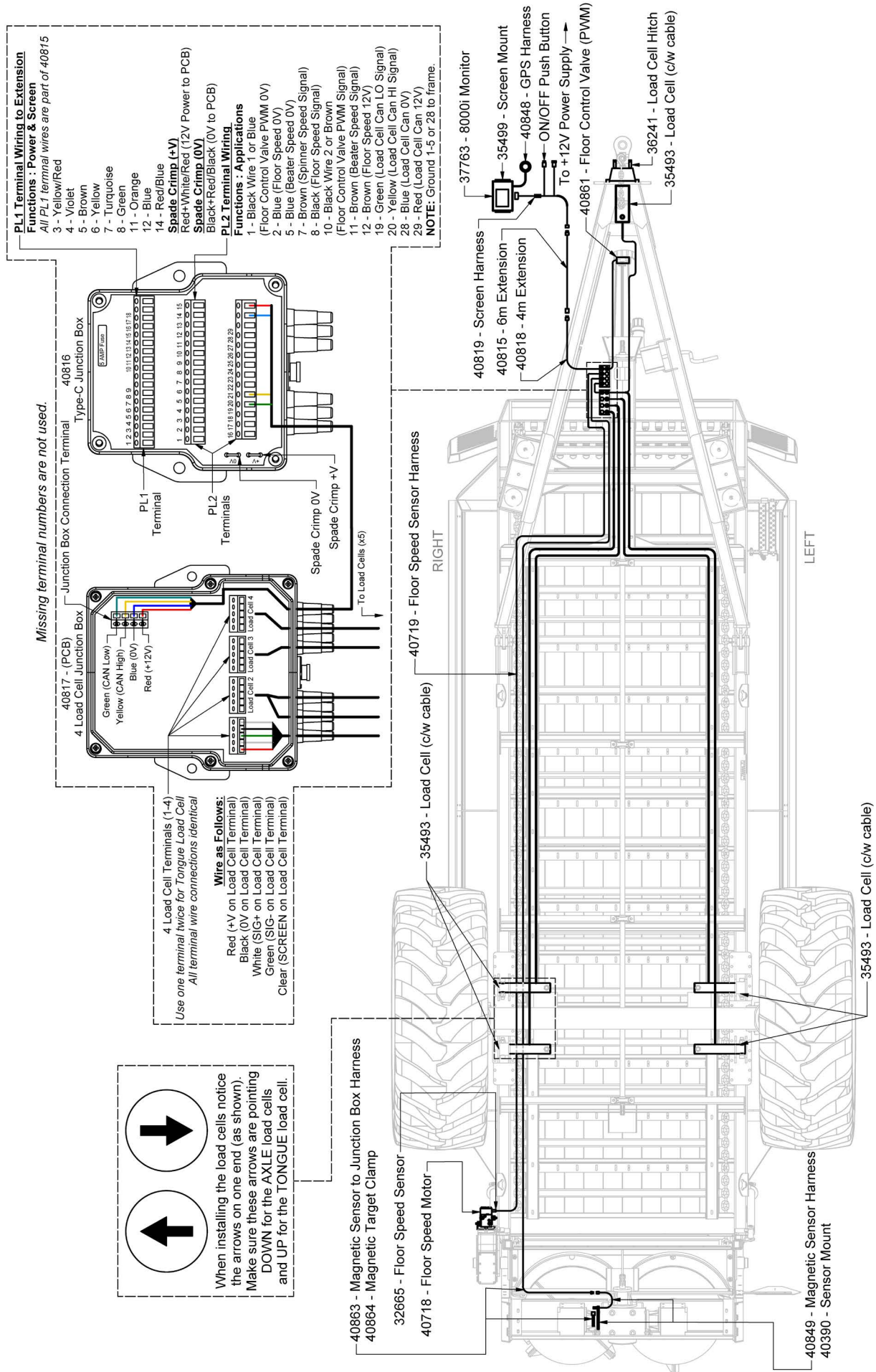
N750LC (GT400) / N750LCNT460 Scales



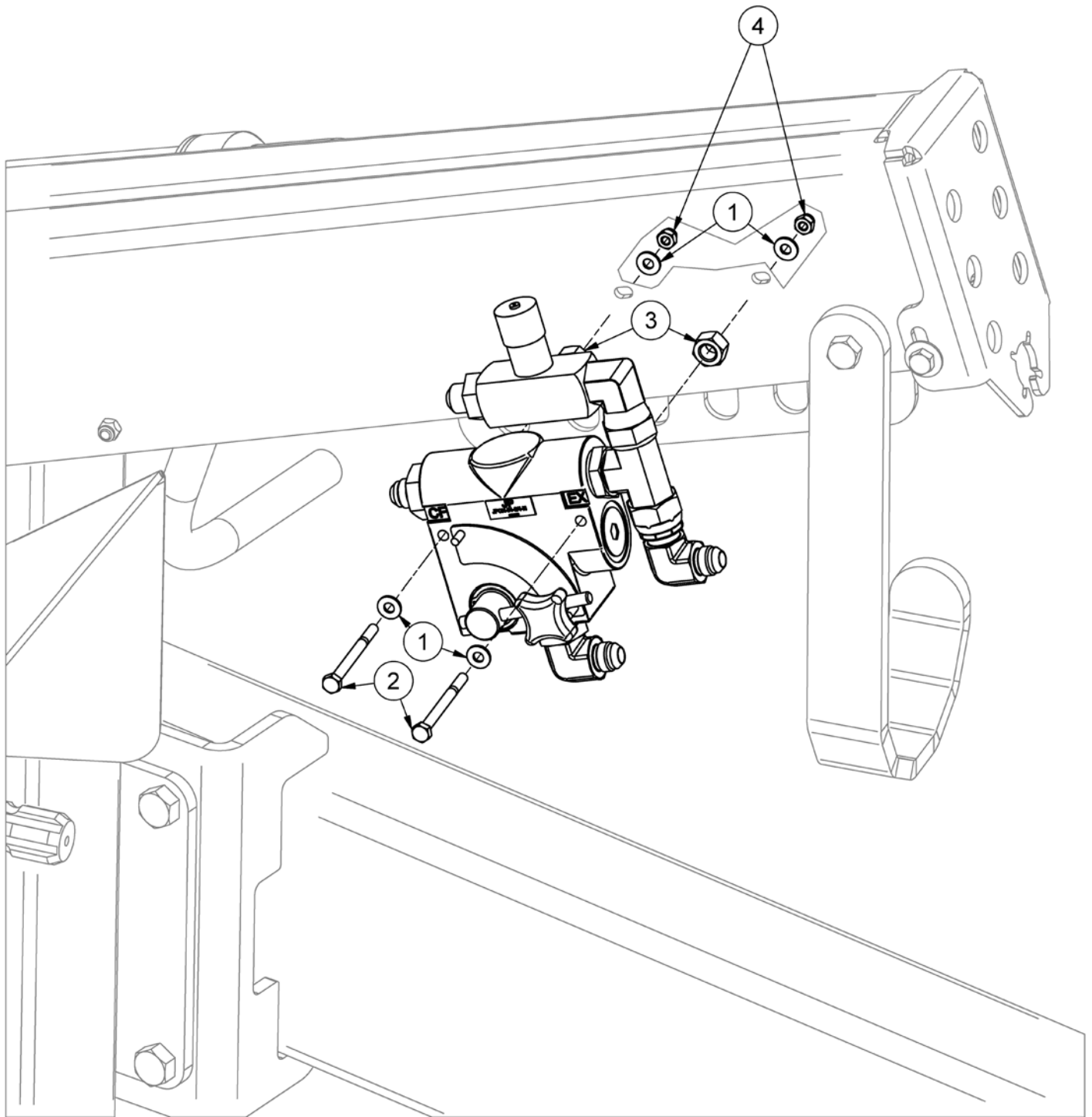
N750LCNT560 Scales



N750LCNT8000 Scales



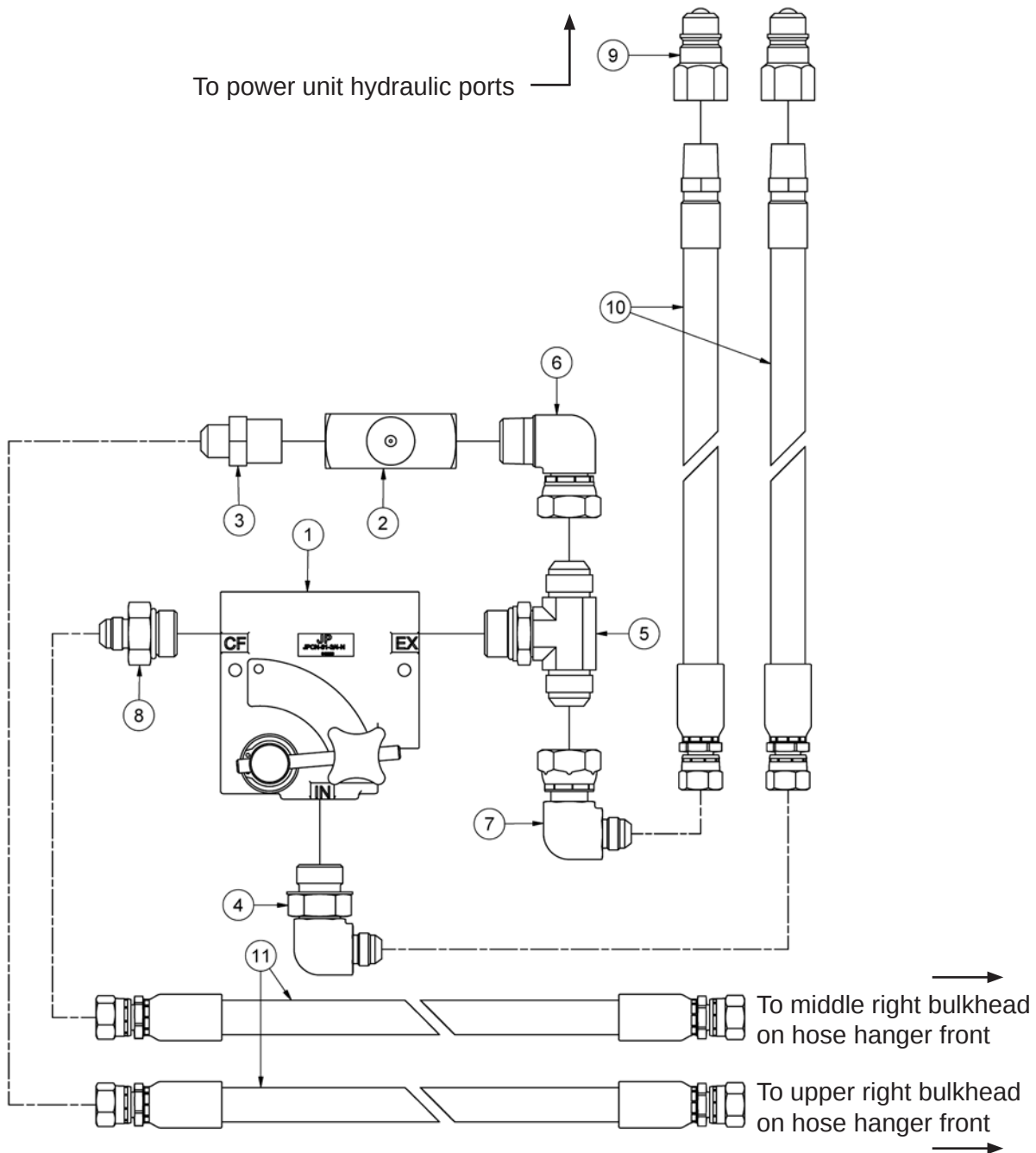
Flow Control Mounting



ITEM	QTY	PART NUMBER	DESCRIPTION
1	4	FW 1/4	Flatwasher - 1/4" Zinc Plated USS
2	2	HB 1/4-20X3 Z5	Hex Bolt 1/4-20x3 Grade 5 Zinc Plated Hex Cap Screw
3	2	HN 1/2	Hex Nut 1/2"-13 Grade 5 Zinc Plated Finished
4	2	LN 1/4 N	LN 1/4-20 Zinc Plated Nylon Insert Lock Nut

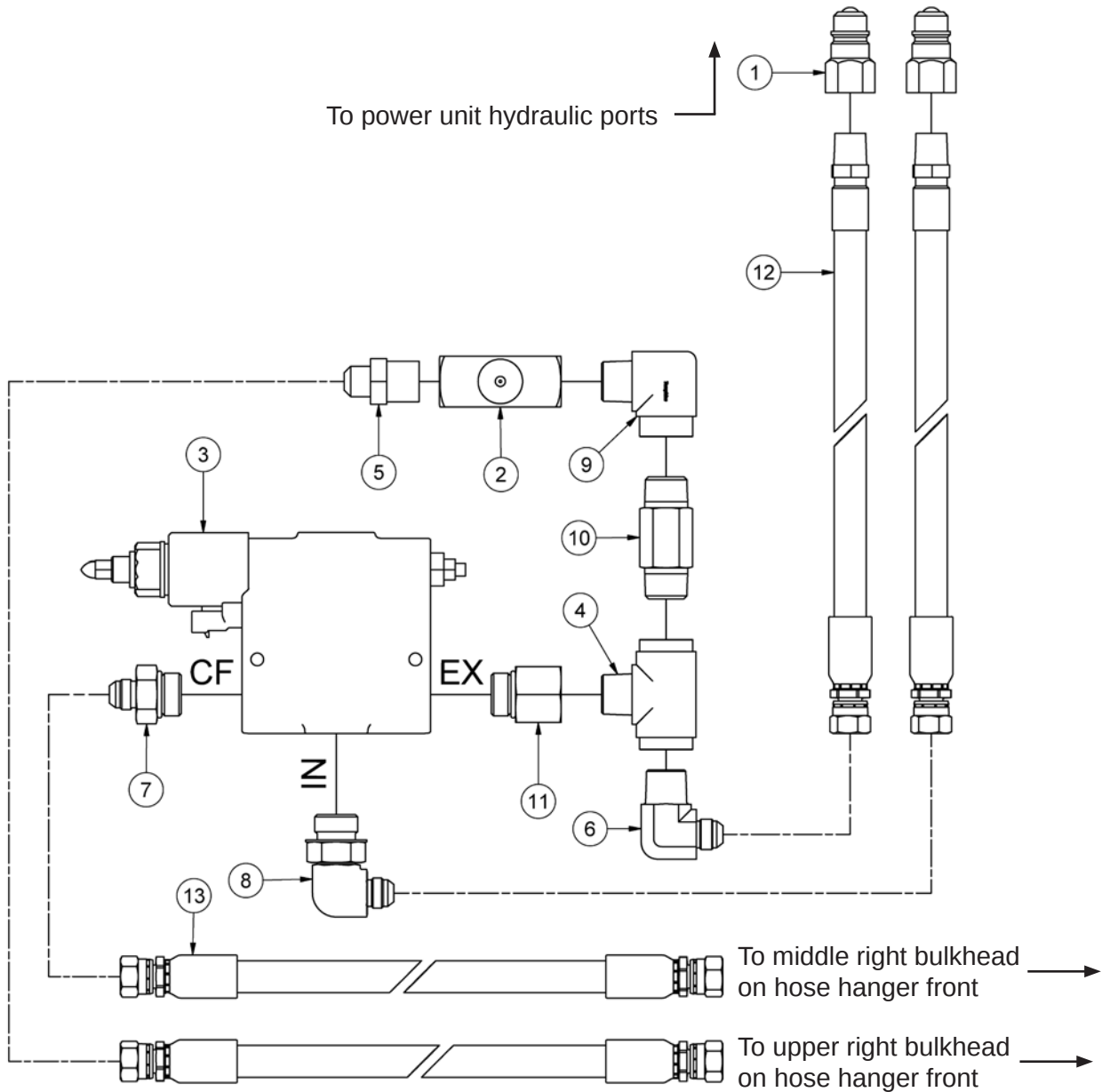
NOTICE: Manual flow control shown. Electric flow control option has same mounting hardware. See hydraulic layouts for flow control breakdowns.

Flow Control Hydraulic Layout - Manual



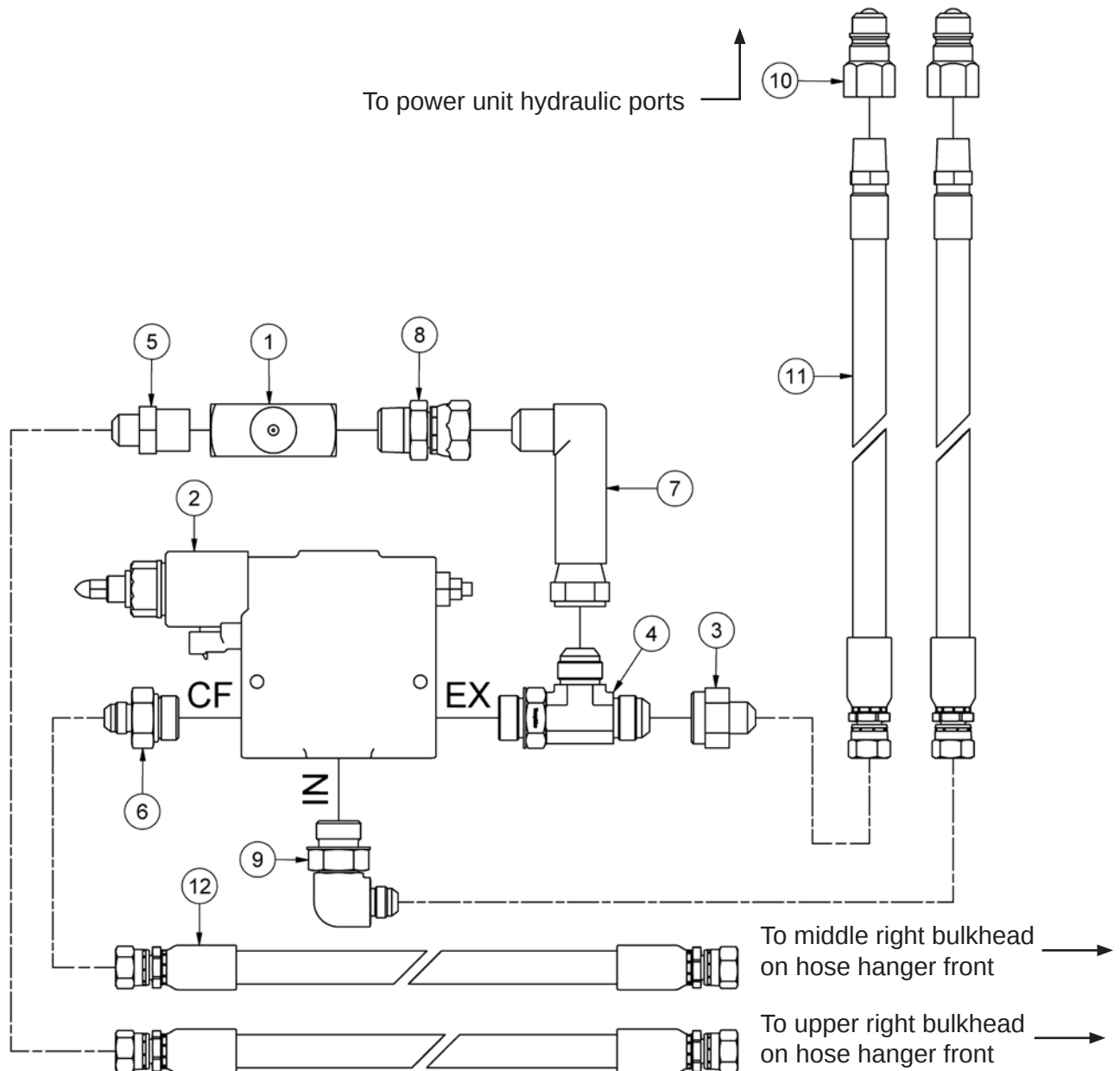
ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	30855	Flow Control - Pressure Compensated 3/4
2	1	30857	Flow Control Valve - 3/4"
3	1	HF 2404-8-12	Hydraulic Fitting - Union
4	1	HF 6801-8-12	Hyd. Fitting - 1/2" JIC - 3/4" 90 Degree Elbow
5	1	HF 6803-12-12-12	Hyd. Fitting Male JIC Male JIC Male ORB Tee
6	1	HF 6501-12-12	Hyd. Fitting 90° 3/4 MNPT - 3/4 FJXH
7	1	HF 6500-8-12	Hyd. Fitting 1/2 Male JIC - 3/4 Female JIC 90°
8	1	HF 6400-8-12	Hyd. Fitting
9	2	HF 8010-4	Quickcoupler 1/2" Male Tip
10	2	30661	HH 1/2 72", 8FJX, 8MP
11	2	37987	HH 1/2 48", 8FJX, 8FJX

Flow Control Hydraulic Layout - Electric (Original)



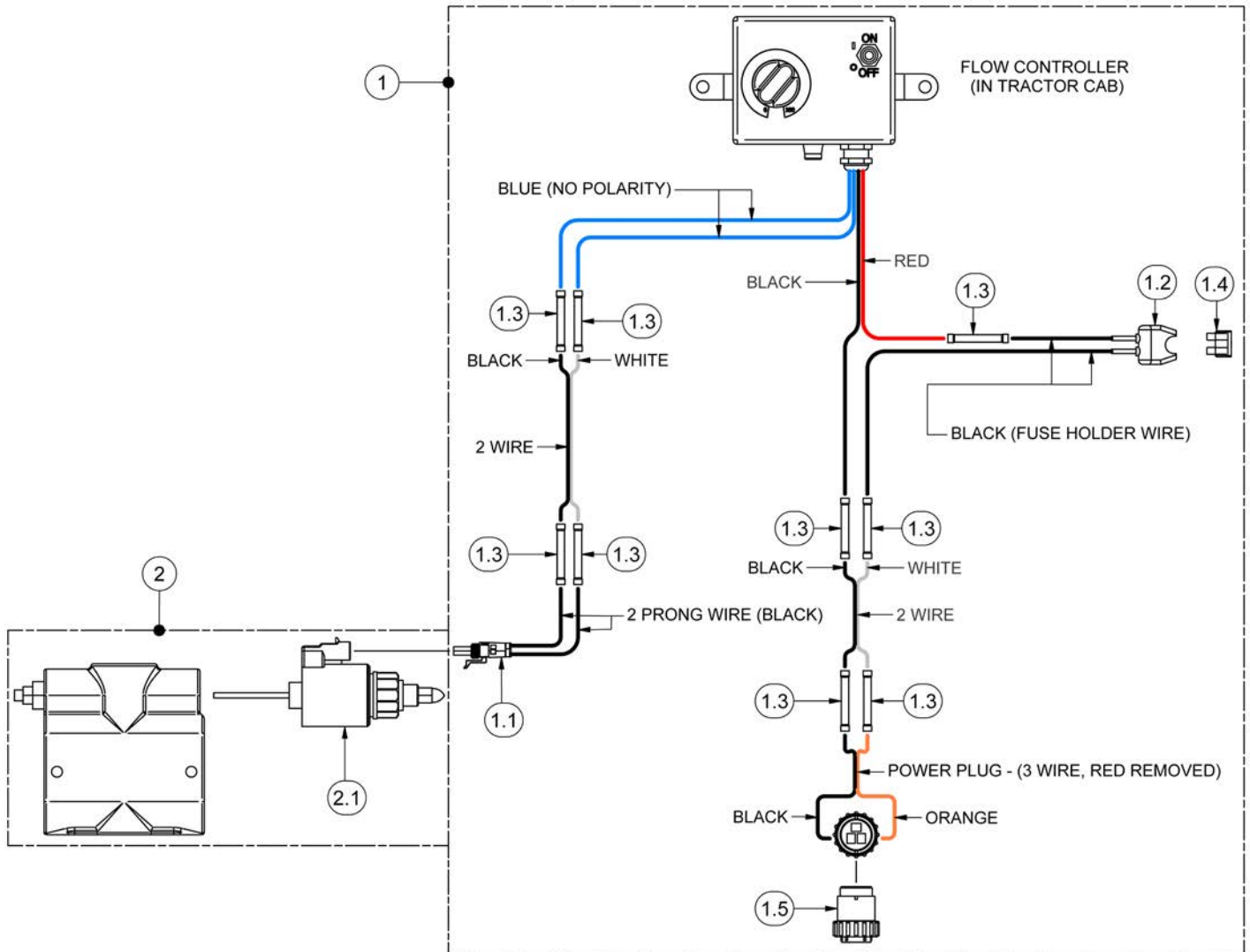
ITEM	QTY	PART NUMBER	DESCRIPTION	NOTE
1	2	HF 8010-4	Quickcoupler 1/2" Male Tip	
2	1	30857	Flow Control Valve - 3/4"	
3	1	37976	Electric Flow Control	Brkdwn Pg.3-22
4	1	HF 5604-12-12	3/4 FNPT X 1/2 MNPT Branch Tee	
5	1	HF 2404-8-12	Hydraulic Fitting - Union	
6	1	HF 2501-8-12	Hydraulic Elbow Fitting - MJIC-MNPT	
7	1	HF 6400-8-12	Hyd. Fitting	
8	1	HF 6801-8-12	Hyd. Fitting - 1/2" JIC - 3/4" 90 Degree Elbow	
9	1	HF 5502-12-12	Hyd. Fitting - 90 Deg. Elbow 12-12	
10	1	HF 5404-L-12-12	Hyd. Fitting 3/4" X 3/4" MNPT Hex Nipple 3" Long	
11	1	HF 6405-12-12	Hydraulic Fitting - Male SAE-ORB to Female NPT	
12	2	30661	1/2" Hydraulic Hose (8FJX,8MP) - 69"	
13	2	37987	1/2" Hydraulic Hose (8FJX,8FJX) - 73"	

Flow Control Hydraulic Layout - Electric (Current)



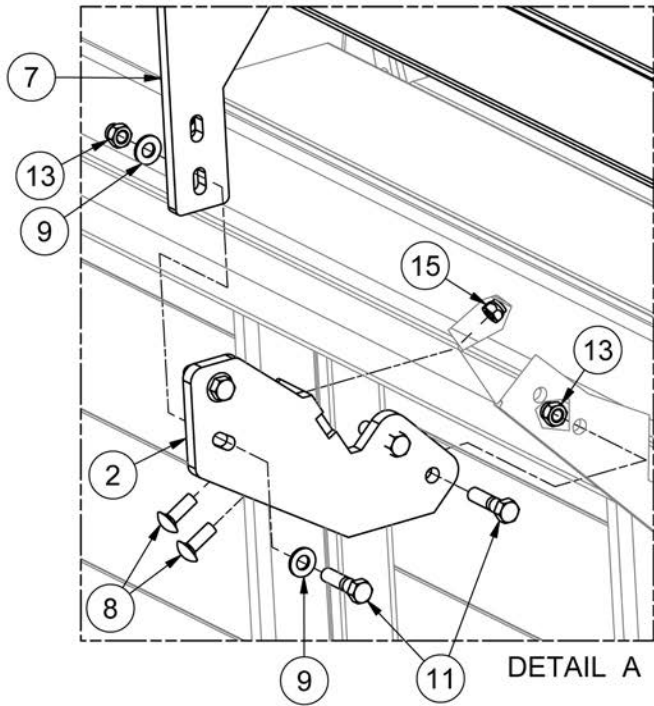
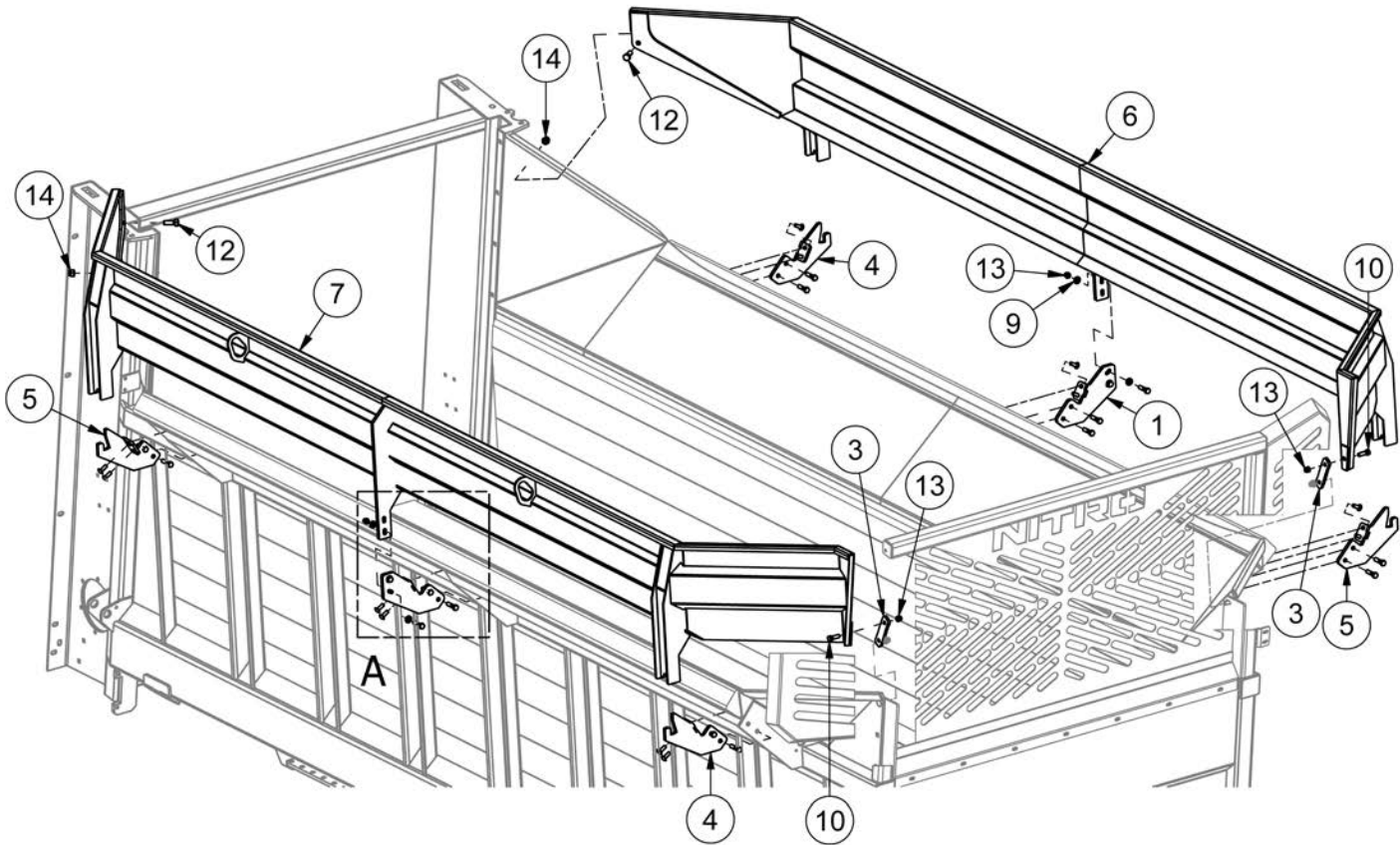
ITEM	QTY	PART NUMBER	DESCRIPTION	NOTE
1	1	30857	Flow Control Valve - 3/4"	
2	1	37976	Electric Flow Control	Brkdwn Pg.3-22
3	1	HF 2406-12-8	Hydraulic Adapter Fitting JIC	
4	1	HF 6804-12-12-12	Hydraulic Tee Fitting - SAE-ORB - MJICs	
5	1	HF 2404-8-12	Hydraulic Fitting - Union	
6	1	HF 6400-8-12	Hyd. Fitting	
7	1	HF 6500-L-12-12-FG	MJ-FJS 90° Elbow Long	
8	1	HF 6505-12-12	Male Pipe To Female JIC Swivel	
9	1	HF 6801-8-12	Hyd. Fitting - 1/2" JIC - 3/4" 90 Degree Elbow	
10	2	HF 8010-4	Quickcoupler 1/2" Male Tip	
11	2	30661	1/2" Hydraulic Hose (8FJX,8MP) - 69"	
12	2	37987	1/2" Hydraulic Hose (8FJX,8FJX) - 73"	

Electric Flow Control Wiring



ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	45344	Electric Flow Controller
1.1	1	37970	2 Prong Plug
1.2	1	TL82-2164	Fuse Holder
1.3	9	EL23662	Wire Connector
1.4	1	TL550-100-079	15 AMP Fuse
1.5	2	TB109-110-307	Power Plug
2	1	45345	Electric Flow Control
2.1	1	37968	Solenoid

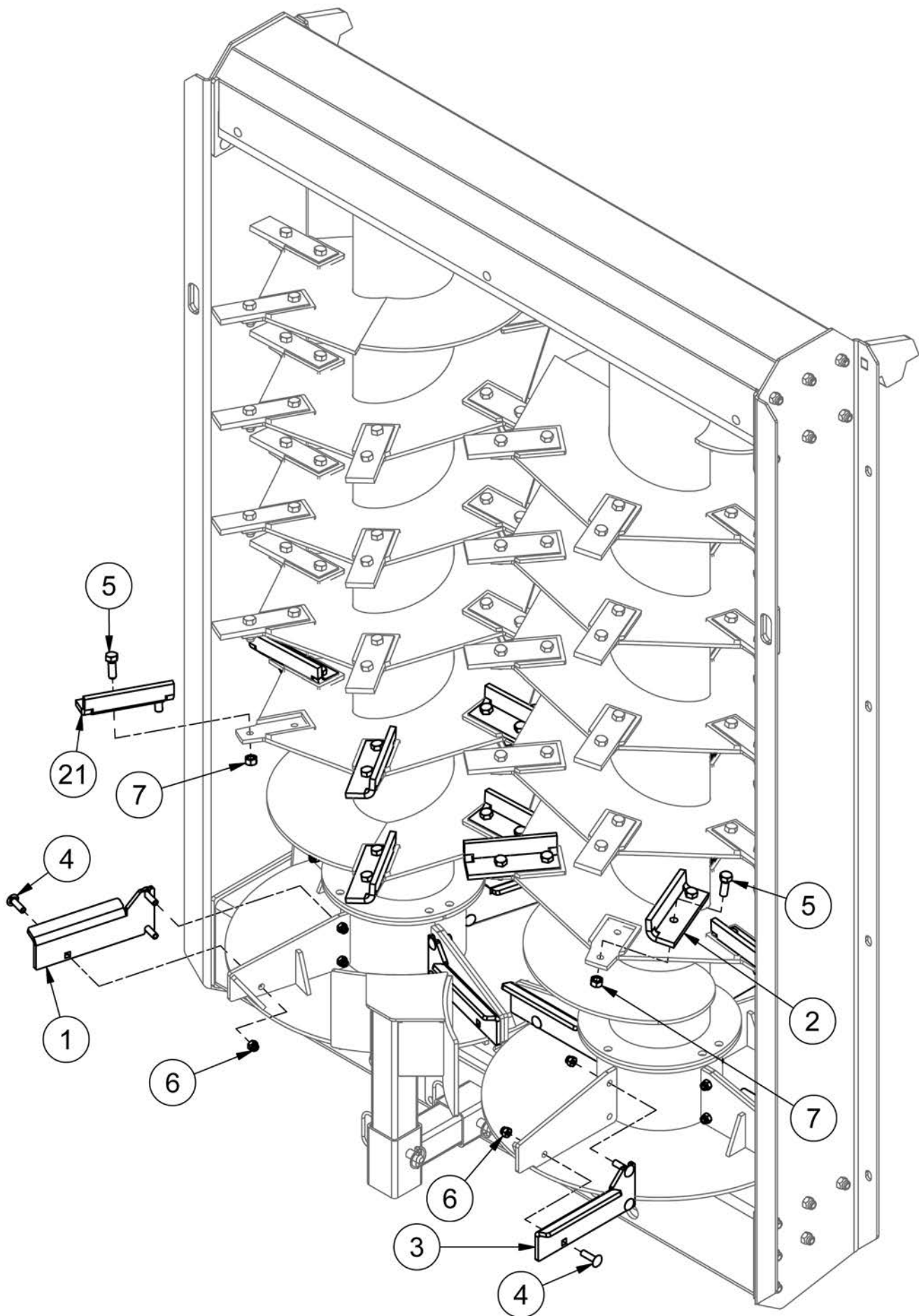
Silage Sides - TLVSSE600



Silage Sides - TLVSSE600

ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	700-623	Right Center Extension Mount
2	1	31687	Left Center Extension Mount
3	2	31912	Bolt On Connector
4	2	31919	Extension Mount
5	2	31984	Extension Mount
6	1	39577	Left Side Extension
7	1	39578	Right Side Extension
8	12	CB7/16-14X1.25CZ5	Carriage Bolt - 7/16-14 x 1 1/4" Grade 5 Zinc
9	8	FW 1/2	Flatwasher - 1/2" Zinc Plated USS
10	2	HB1/2-13X1.5Z5	Hex Bolt 1/2-13x1 1/2 Grade 5 Zinc Plated Hex Cap Screw
11	16	HB1/2-13X2Z5	Hex Bolt 1/2-13x2 Grade 5 Zinc Plated Hex Cap Screw
12	2	HB5/8-11X1.75Z5	Hex Bolt 5/8-11x1 3/4 Grade 5 Zinc Plated Hex Cap Screw
13	18	LN1/2-13NCZ5	LN 1/2-13 Zinc Plated Nylon Insert Lock Nut
14	2	LN5/8-11NCZ5	LN 5/8-11 Zinc Plated Nylon Insert Lock Nut
15	12	LN7/16-14NCZ5	LN 7/16-14 Zinc Plated Nylon Insert Lock Nut

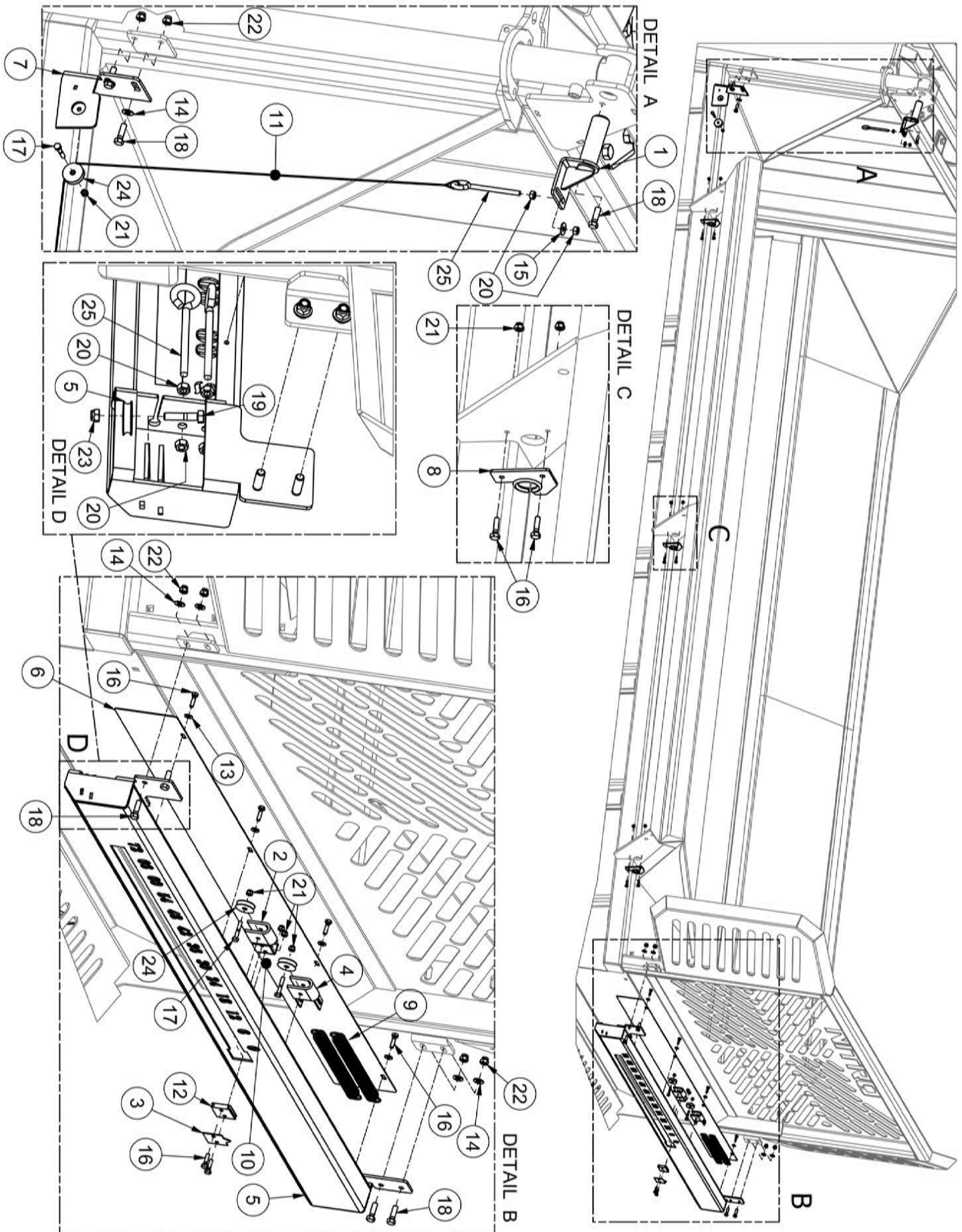
Flange Paddle Kit - 41504



Flange Paddle Kit - 41504

ITEM	QTY	PART NUMBER	DESCRIPTION
1	4	33321	Cupped Paddles - Left
21	8	36518	Beater Paddle (Cupped) Left
2	8	37718	Beater Paddle (Cupped) Right
3	4	37719	Cupped Paddles - Right
4	24	CB1/2-13X1.75CZ5	Carriage Bolt - 1/2-13 x 1 3/4" Grade 5 Zinc
5	32	HB5/8-11X1.75Z5	Hex Bolt 5/8-11x1 3/4 Grade 5 Zinc Plated Hex Cap Screw
6	24	LN1/2-13NCZ5	LN 1/2-13 Zinc Plated Nylon Insert Lock Nut
7	32	LN5/8-11TCZ5	LN5/8-11 Gr.C Zinc Top Lock Nut

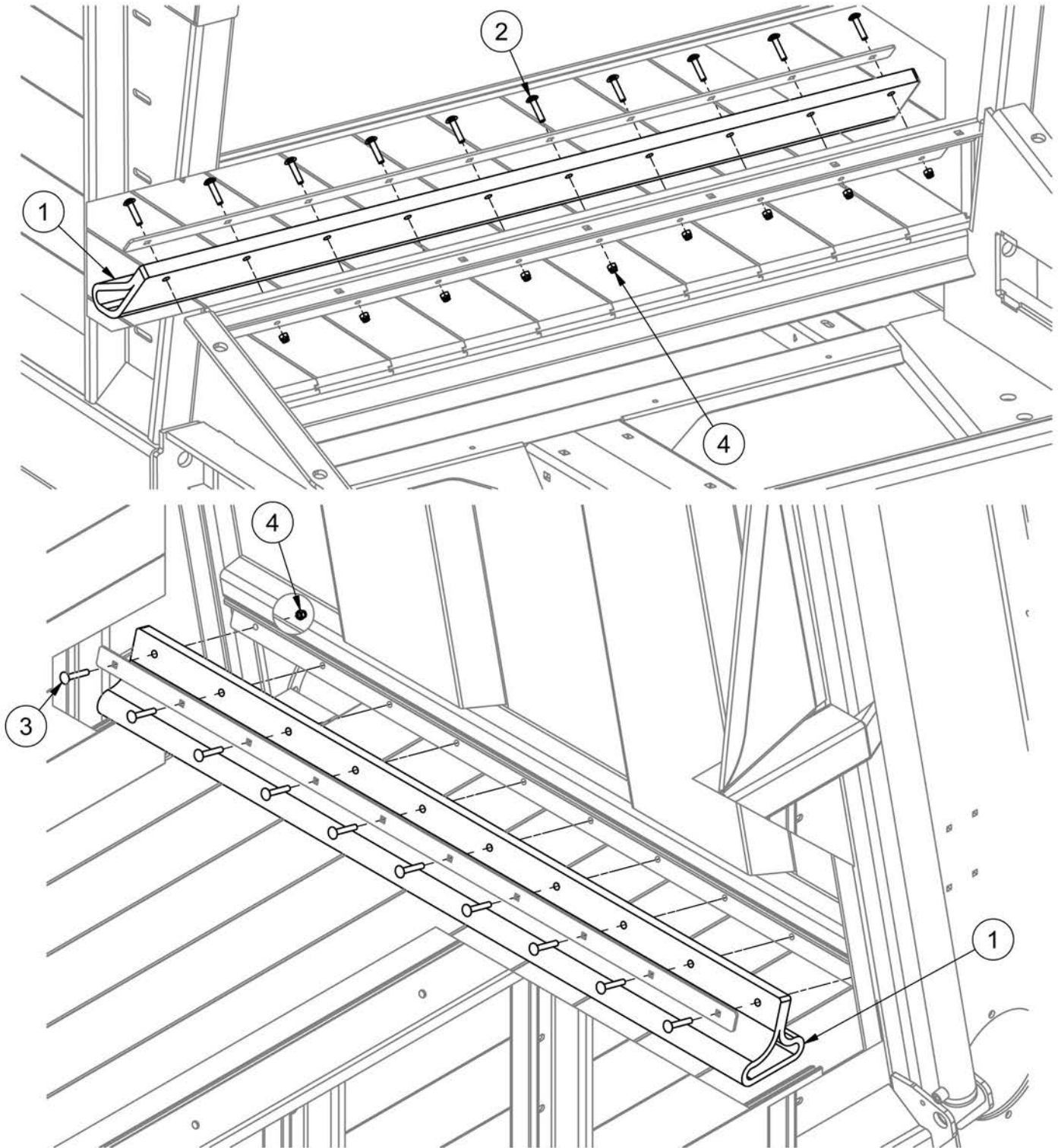
Endgate Indicator Kit - 45816



Endgate Indicator Kit - 45816

ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	45314	Endgate Cable Pin
2	1	45407	Indicator Slider Mount
3	1	45409	Indicator Arrow
4	1	45410	Spring Tensioner Pulley
5	1	45578	Indicator
6	1	45582	Indicator Back Panel
7	1	45812	Rear Pulley
8	3	45898	Indicator Wire Plate
9	2	46086	Spring 12.0 X 1.0 X .105
10	1	48202	Front Indicator Cable - .125" x 65"
11	1	48207	Side Indicator Cable - .125" x 322"
12	1	BF5000-183	Indicator Slider
13	4	FW 1/4	Flatwasher - 1/4" Zinc Plated USS
14	6	FW 3/8	Flatwasher - 3/8" Zinc Plated USS
15	1	FW 5/16	Flatwasher - 5/16" Zinc Plated USS
16	12	HB1/4-20X1Z5	Hex Bolt 1/4-20x1 Grade 5 Zinc Plated Hex Cap Screw
17	3	HB1/4-20X1.5Z5	Hex Bolt 1/4-20x1 1/2 Grade 5 Zinc Plated Hex Cap Screw
18	7	HB3/8-16X1.25Z5	Hex Bolt 3/8-16x1 1/4 Grade 5 Zinc Plated Hex Cap Screw
19	1	HB 5/16-18X1.5 Z5	Hex Bolt 5/16-18x1 1/2 Grade 5 Zinc Plated Hex Cap Screw
20	6	HN 5/16	Hex Nut 5/16"-18 Grade 5 Zinc Plated Finished
21	11	LN1/4-20NCZ5	LN 1/4-20 Zinc Plated Nylon Insert Lock Nut
22	7	LN3/8-16NCZ5	LN 3/8-16 Zinc Plated Nylon Insert Lock Nut
23	1	LN 5/16 N	LN 5/16-18 Zinc Plated Nylon Insert Lock Nut
24	3	PP00423	Pulley
25	3	PP00682	Eye Bolt - 5/16-18 x 4" Shank Zinc Plated Turned

Double Seal - 41444



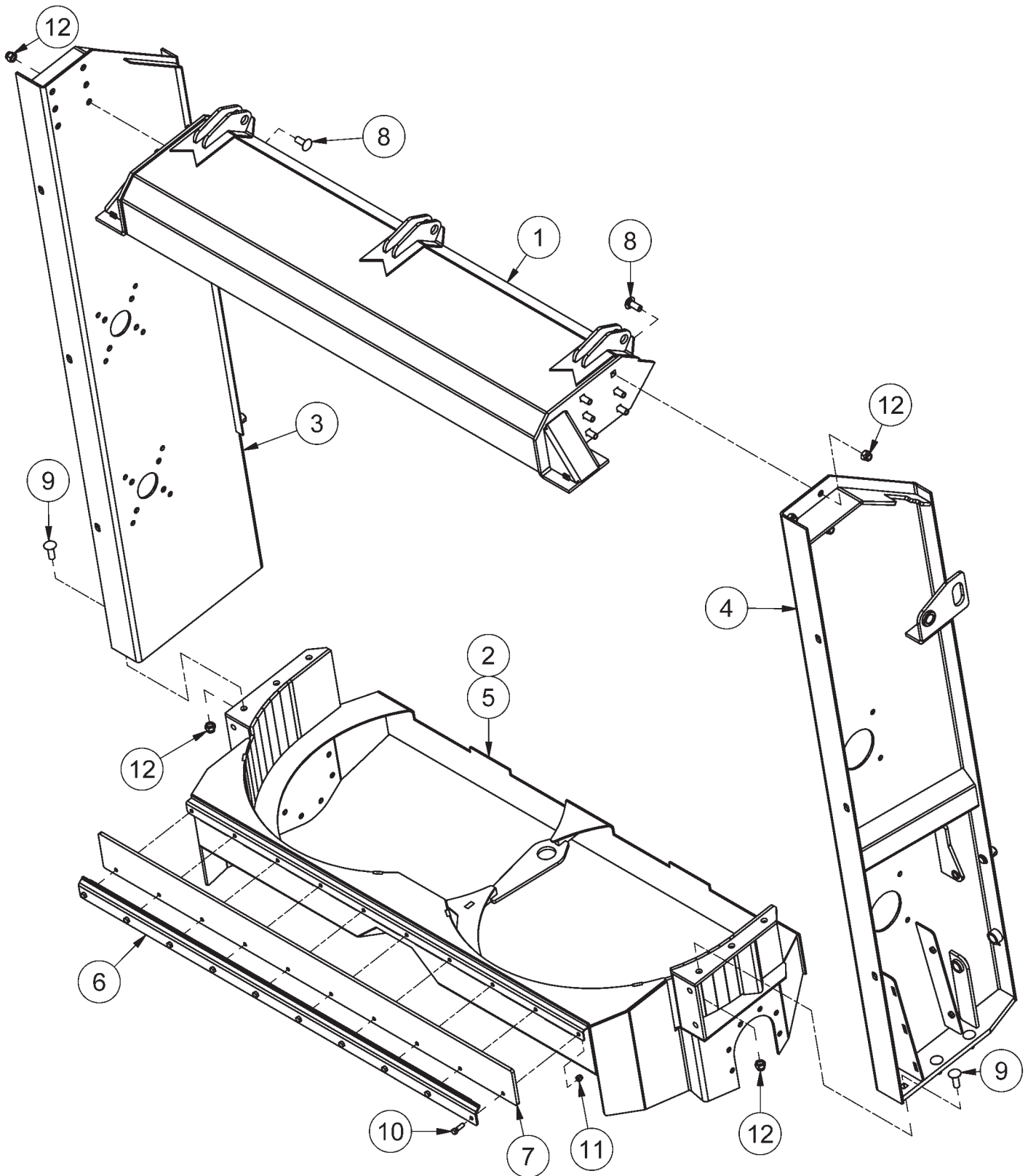
Double Seal - 41444

ITEM	QTY	PART NUMBER	DESCRIPTION
1	2	39349	Belting for N600,450, (1/2 x 14 x 62.5)
2	10	CB3/8-16X1.75CZ5	Carriage Bolt - 3/8-16 x 1 3/4" Grade 5 Zinc
3	10	CB3/8-16X2.25CZ5	Carriage Bolt - 3/8-16 x 2 1/4" Grade 5 Zinc
4	20	LN3/8-16NCZ5	LN 3/8-16 Zinc Plated Nylon Insert Lock Nut

Section 4 - Option - Poultry Beaters

Poultry Beaters - Frame

Specify Manure Spreader serial no. when ordering replacement parts.

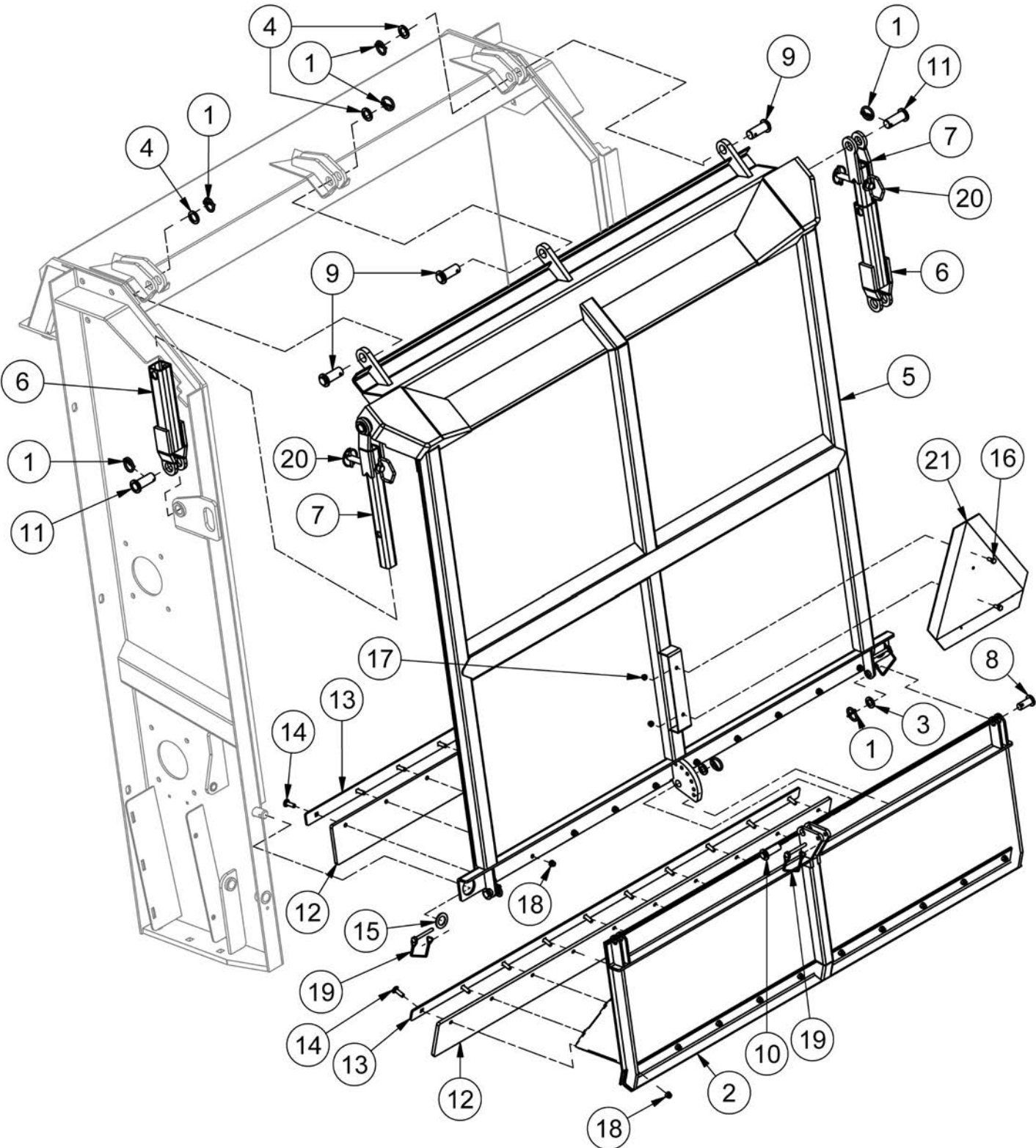


Poultry Beaters - Frame

Specify Manure Spreader serial no. when ordering replacement parts.

ITEM	QTY	PART NUMBER	DESCRIPTION	NOTE
1	1	40334	Beater Gate Mount Asm	
2	1	40335	Spinner Mounting Asm	Used up to TSB4001
3	1	40369	Beater Right Panel Asm	
4	1	40370	Beater Left Panel Asm	Refer to S/N when ordering
5	1	44921	Spinner Mounting Asm	TSB4001-current
6	1	45367	Wiper Deflector	
7	3	46077	2 Ply Rubber Belt-V600,V450 (7.0 x 62.5)	
8	12	CB5/8-11X1.5CZ5	Carriage Bolt - 5/8-11 x 1 1/2" Grade 5 Zinc	
9	6	CB5/8-11X1.75CZ5	Carriage Bolt - 5/8-11 x 1 3/4" Grade 5 Zinc	
10	10	HB3/8-16X1.25Z5	Hex Bolt 3/8-16x1 1/4 Gr 5 Zinc Plated Hex Cap Screw	
11	30	LN3/8-16NCZ5	LN 3/8-16 Zinc Plated Nylon Insert Lock Nut	
12	18	LN5/8-11NCZ5	LN 5/8-11 Zinc Plated Nylon Insert Lock Nut	

Poultry Beaters - Endgate

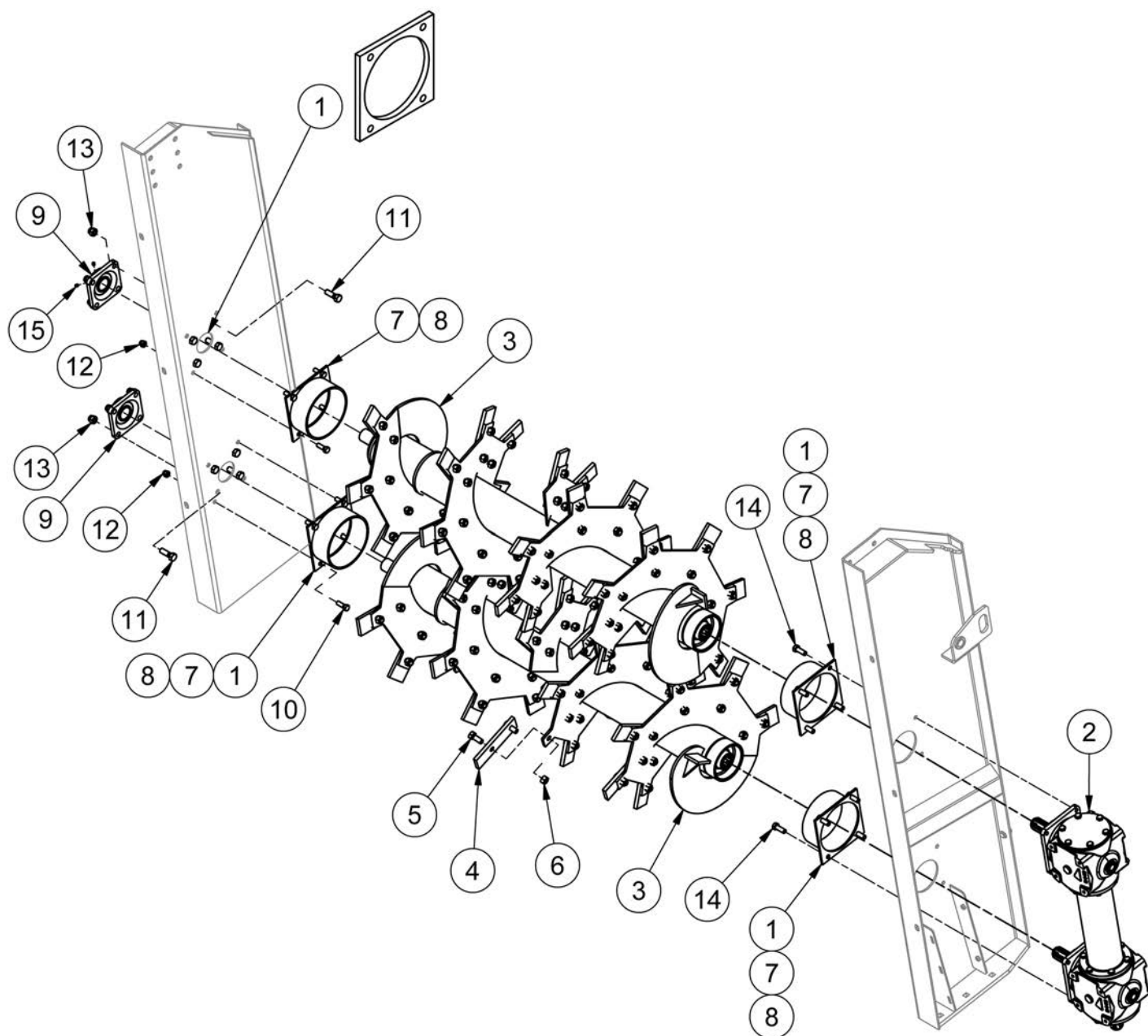


N600 Poultry Beaters - Endgate

ITEM	QTY	PART NUMBER	DESCRIPTION
1	10	25680	Lynch Pin 3/16 X 1.5
2	1	40332	Lower Gate
3	3	40365	Beater Gate Washer S
4	3	40367	Gate Hinge Washer L
5	1	40368	Upper Gate
6	2	40389	Sliding Hinge Clevis Asm
7	2	40393	Sliding Hinge Arm Asm
8	2	40590	Lower Poultry Beater Pin
9	3	40591	Top Poultry Beater Pin
10	1	42176	Center Gate Pin
11	4	45361	Hinge Arm Pin ASM
12	2	46077	Rubber Seal
13	2	600-790	Rubber Hold Down
14	20	CB3/8-16X1.25CZ5	Carriage Bolt - 3/8-16 x 1 1/4" Grade 5 Zinc
15	2	FW 1.0	Flatwasher - 1" Zinc Plated USS
16	2	HB5/16-18X0.75Z5	Hex Bolt 5/16-18x3/4 Gr.5 Zinc Hex Cap Screw
17	2	LN5/16-18NCZ5	LN 5/16-18 Zinc Plated Nylon Insert Lock Nut
18	20	LN3/8-16NCZ5	LN 3/8-16 Zinc Plated Nylon Insert Lock Nut
19	3	LP B1997	Pin - Lock Pin 5/16 X 2 1/2
20	2	TL500-100-154	5/8 X 4 Hitch Pin
21	1	DESMV	Slow Moving Vehicle Sign

Poultry Beaters - Beaters

Specify Manure Spreader serial no. when ordering replacement parts.



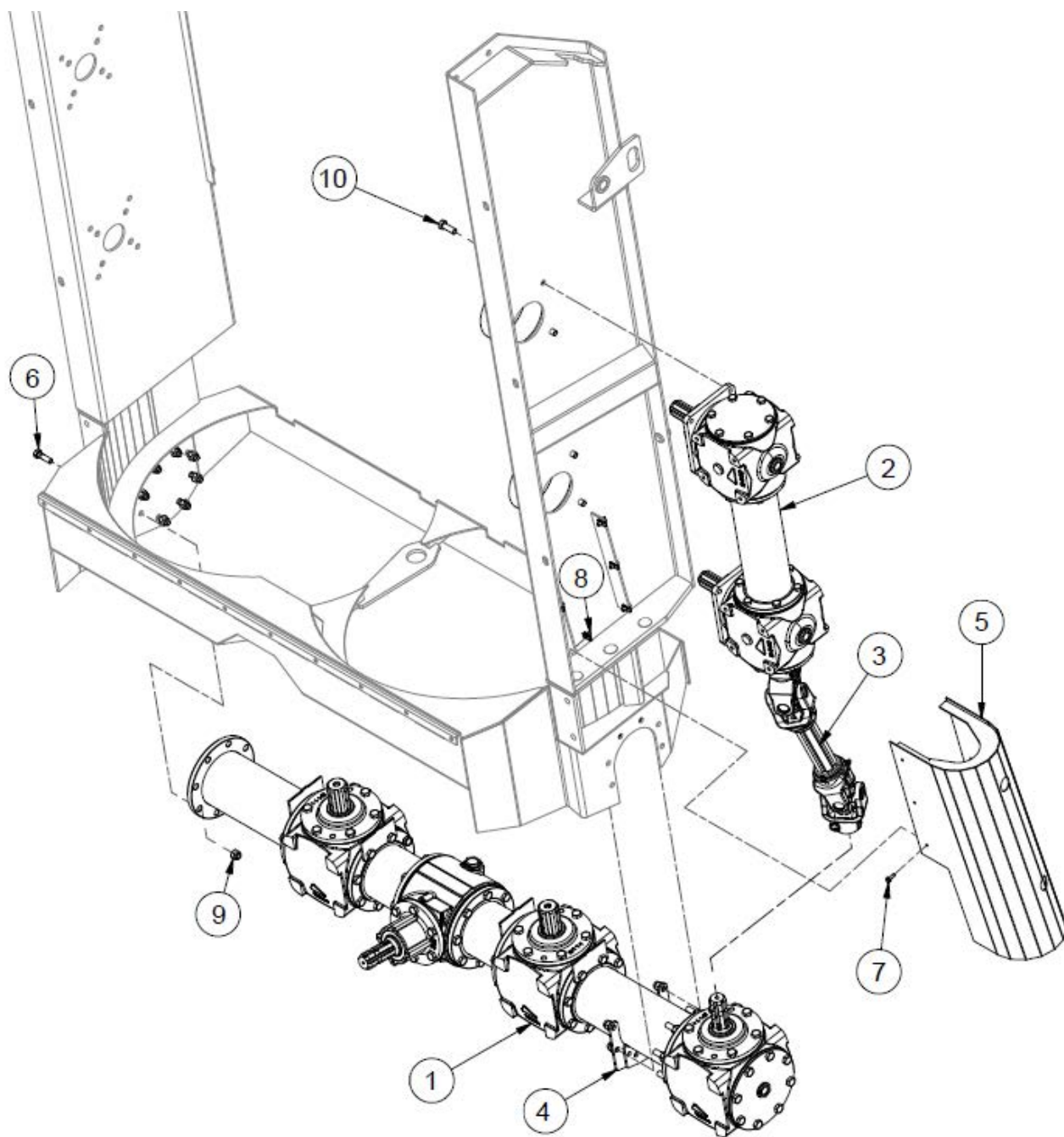
Poultry Beaters - Beaters

Specify Manure Spreader serial no. when ordering replacement parts.

ITEM	QTY	PART NUMBER	DESCRIPTION	NOTE
1	4	36723	Beater Inside Plate	Original
2	1	37827	Horizontal Beater Gear Box	
3	2	40356	Poultry Beater for 375,450,525,600 Nitro	
4	28	400-438	Beater Paddle	Qty/1 Beater
5	56	HB5/8-11X1.5Z5	Hex Bolt 5/8-11x1 1/2 Grade 5 Zinc Plated Hex Cap Screw	Qty/1 Beater
6	56	LN5/8-11CCZA	Center Lock Nut 5/8"-11 Grade A Zinc Plated	Qty/1 Beater
7	4	37936	Beater End Covers	Original
8	4	45663	Beater Shields	Current
9	2	BEA UCF209-28R3	Flange Bearing -Triple Seal- Ductile Iron	
10	8	HB1/2-13X1.5Z5	Hex Bolt 1/2-13x1 1/2 Grade 5 Zinc Plated Hex Cap Screw	
11	8	HB5/8-11X2Z5	Hex Bolt 5/8-11x2 Grade 5 Zinc Plated Hex Cap Screw	
12	40	LN1/2-13NCZ5	LN 1/2-13 Zinc Plated Nylon Insert Lock Nut	
13	26	LN5/8-11NCZ5	LN 5/8-11 Zinc Plated Nylon Insert Lock Nut	
14	8	M14X40X2	Metric Bolt	
15	4	SS5/16-18CX0.375CP	Allan Head Set Screw, 5/16-18 x 3/8	

Poultry Beaters - Drivelines - Original

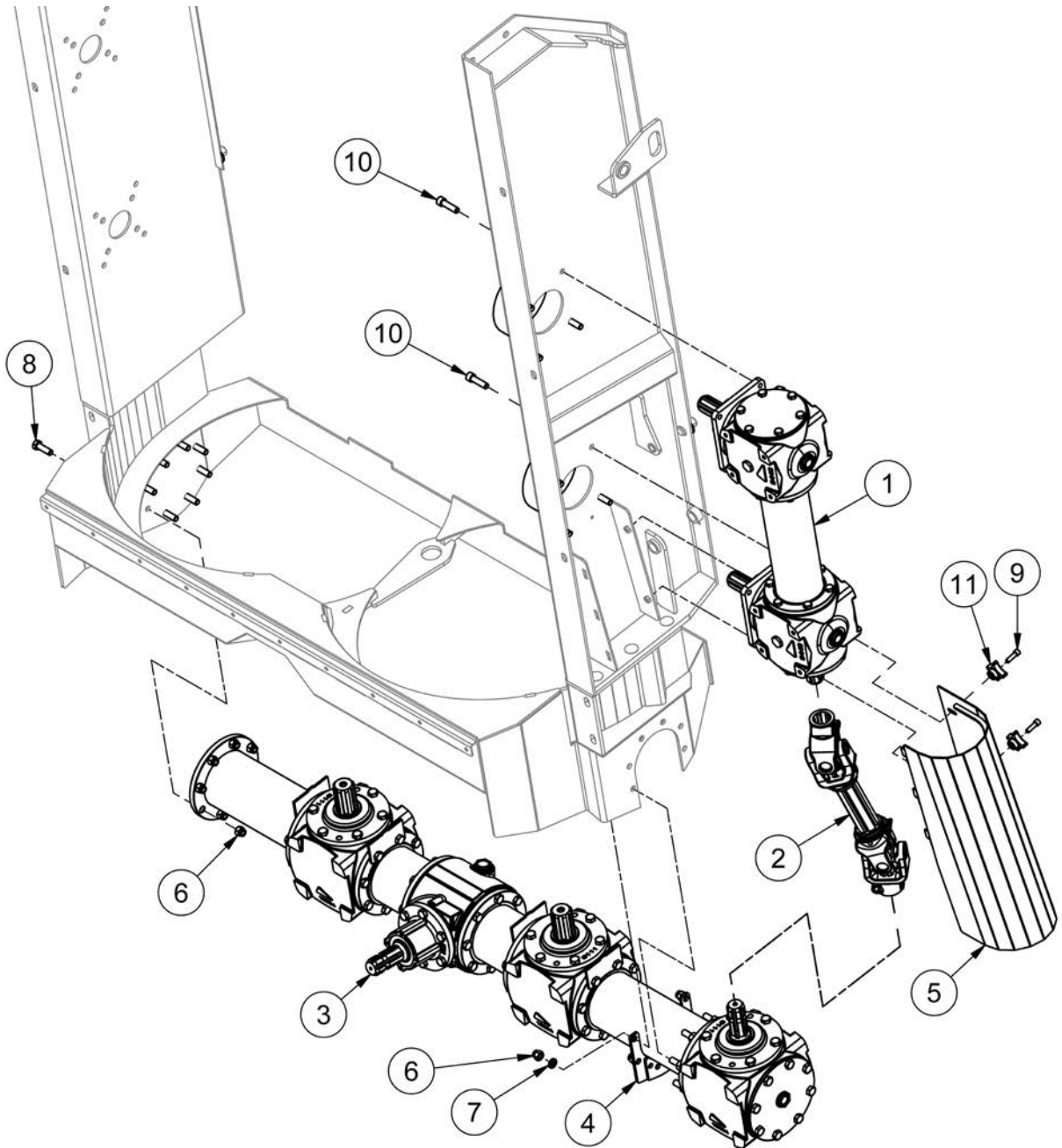
Specify Manure Spreader serial no. when ordering replacement parts.



ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	37828	Gear Box - Lower Poultry
2	1	37827	Gear Box - Side Poultry
3	1	39998	PTO Cross Drive Shaft
4	1	42173	Bottom Gearbox Support
5	1	40259	PTO Shield Assembly
6	16	HB 1/2-13X1.75 Z5	Hex Bolt 1/2-13x1 3/4 Grade 5 Zinc Plated Hex Cap Screw
7	6	HBC516X34	Hex Bolt - 5/16-18 X 3/4 Serrated
8	6	HNP 5/16	Panel Nut - 5/16" U-Type Spring
9	16	LN 1/2 N	LN 1/2-13 Zinc Plated Nylon Insert Lock Nut
10	8	M14X40X2.0	Metric Bolt

Poultry Beaters - Drivelines - Current

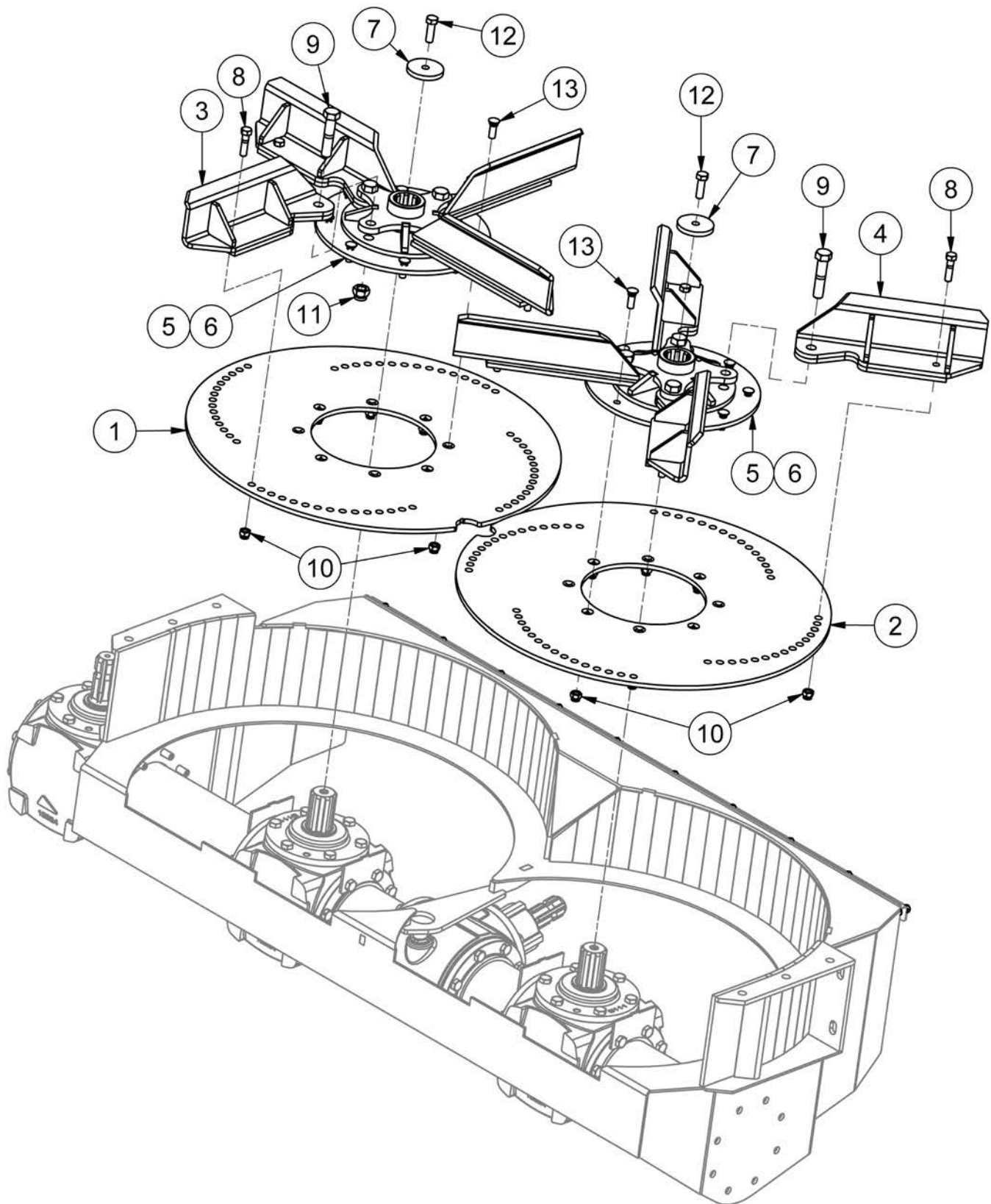
Specify Manure Spreader serial no. when ordering replacement parts.



ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	37827	Gear Box - Side Poultry
2	1	39998	PTO Cross Drive Shaft
3	1	44836	Gear Box SRT18/1710 - Berma
4	1	44926	Bottom Gear Box Support
5	1	45366	PTO Shield
6	16	LNM14-2CZ5	Locknut - M14-2 Zinc Plated Nylon Insert Lock Nut
7	8	LW 9/16	LW - 9/16" Zinc Plated Medium Split
8	10	M14X45X2	Metric Bolt
9	2	SHCS3/8-16X1.25	Hex Bolt - 3/8-16 x 1 1/4 Socket Head Cap Screw
10	8	SHCSM14X50X2	Socket Head Cap Screw Metric 14-2 x 50
11	2	TL599-100-104	Switch Adjuster Screw (4 Prong Knob)

Poultry Beaters - Spinners

Specify Manure Spreader serial no. when ordering replacement parts.

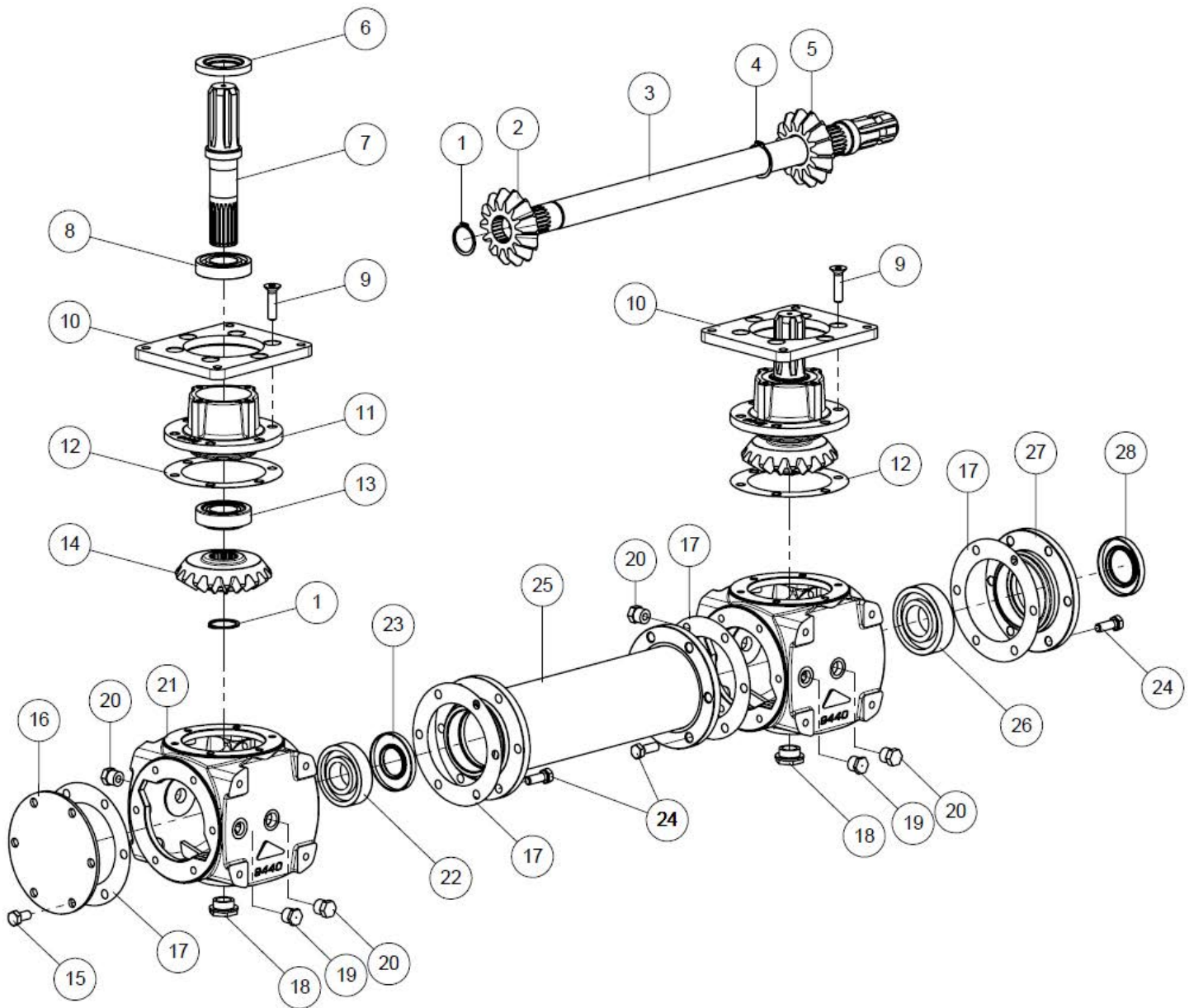


Poultry Beaters - Spinners

Specify Manure Spreader serial no. when ordering replacement parts.

ITEM	QTY	PART NUMBER	DESCRIPTION	NOTE
1	1	37881	Left Spinner Plate	
2	1	37902	Right Spinner Plate	
3	4	40310	Left Paddle	
4	4	40311	Right Paddle	
5	2	39843	Braced Spinner Hub	Original
6	2	44927	Spinner Hub SRT18	Current
7	2	44941	Hub Washer	
8	8	HB1/2-13X2Z5	Hex Bolt 1/2-13x2 Gr.5 Zinc Hex Cap Screw	
9	8	HB3/4-10X3.5Z5	Hex Bolt 3/4-10x3 1/2 Gr.5 Zinc Hex Cap Screw	
10	32	LN1/2-13NCZ5	LN 1/2-13 Zinc Plated Nylon Insert Lock Nut	
11	8	LN3/4-10NCZ5	LN 3/4-10 Zinc Plated Nylon Insert Lock Nut	
12	10	M14X45X2	Metric Bolt	
13	16	PB 1/2-13X1.5	Plow Bolts - 1/2-13 x 1 1/2 Flat Head Gr.5	

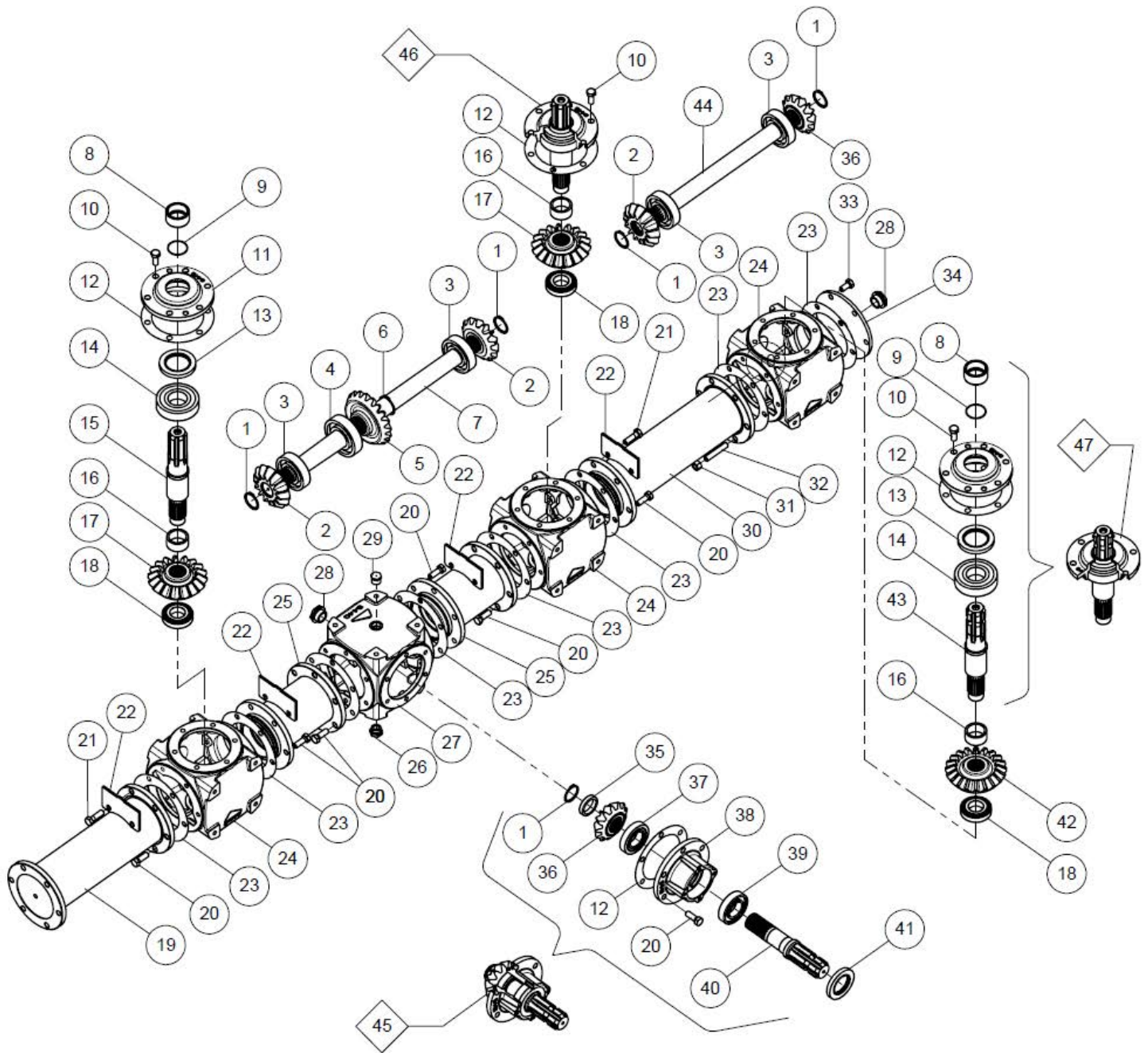
Poultry Beater Side Gearbox - 37827



Poultry Beater Side Gearbox - 37827

ITEM	QTY	PART NUMBER	DESCRIPTION
1	3	37827-3426	Circlip E40
2	1	37827-12041	Bevel Pinion Z=14
3	1	37827-15466	Shaft
4	1	37827-3427	Circlip E45
5	1	37827-15464	Bevel Pinion Z=14
6	2	37827-15481	Oil Seal 52/80/10-DL
7	2	37827-15463	Shaft
8	2	37827-3342	Bearing 6208
9	12	37827-15476	Screw M12x50
10	2	37827-15461	Fixing Plate
11	2	37827-9445	Hub
12	2	37827-9536	Gasket
13	2	37827-9013	Bearing 32208
14	2	37827-12042	Gear Z=18
15	6	37827-3301	Screw, Hex-HD M12x25
16	1	37827-12556	Cover
17	4	37827-9525	Gasket
18	2	37827-9179	Oil Level Indicator Ø1"Gas All.
19	2	37827-9706	Oil Breather Plug Ø1/2"Gas
20	4	37827-9707	Oil Plug Ø1/2"Gas
21	2	37827-15508	Lateral Housing
22	1	37827-3346	Bearing 6308
23	1	37827-15505	Oil Seal 40/85/9
24	18	37827-3768	Screw, Hex-HD M12x35
25	1	37827-15468	Spacer L=400
26	1	37827-7478	Bearing 6309
27	1	37827-15465	Calotte
28	1	37827-15480	Oil Seal 50/85/10-DL

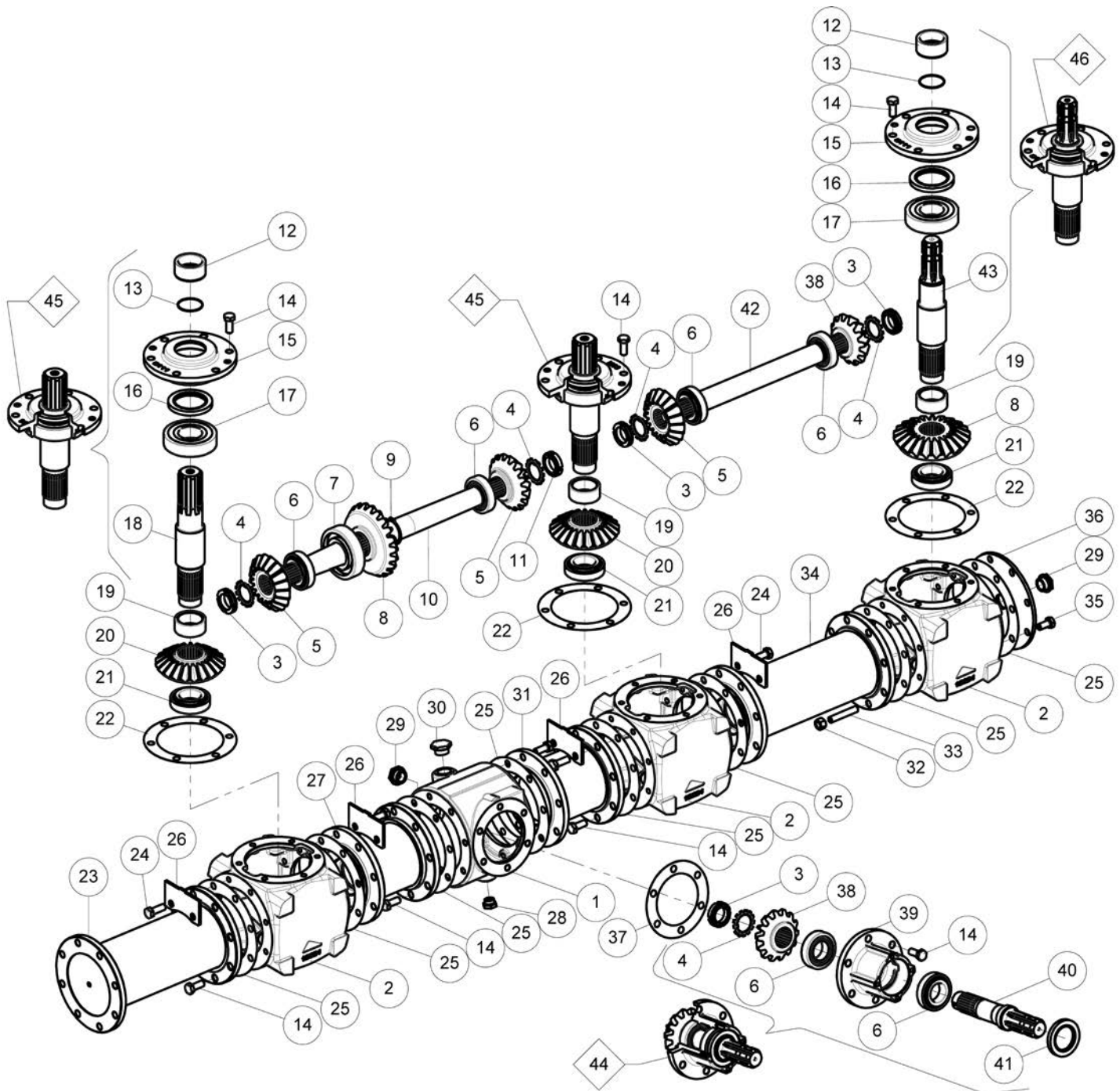
Poultry Beater Lower Gearbox - Original - 37828



Poultry Beater Lower Gearbox - Original - 37828

ITEM	QTY	PART NUMBER	DESCRIPTION
1	5	37828-3426	Circlip E40
2	3	37828-12041	Bevel Pinion Z=14
3	4	37828-3346	Bearing 6308
4	1	37828-7478	Bearing 6309
5	1	37828-9502	Gear Z=20
6	1	37828-3427	Circlip E45
7	1	37828-9672	Shaft L=712
8	3	37828-9524	Spacer
9	3	37828-9926	O-ring 2175
10	18	37828-3302	Screw, Hex-HD M12x30
11	3	37828-9446	Calotte
12	4	37828-9536	Gasket
13	3	37828-7480	Oil Seal 55/85/10-DL
14	3	37828-13102	Bearing 6309-2RS
15	2	37828-9507	Shaft
16	3	37828-9516	Spacer 40/51/25
17	2	37828-12042	Gear Z=18
18	3	37828-3354	Bearing 30207
19	1	37828-9680	Spacer L=370
20	34	37828-3768	Screw, Hex-HD M12x35
21	8	37828-3303	Screw, Hex-HD M12x40
22	4	37828-12143	Support
23	8	37828-9525	Gasket
24	3	37828-9441	Housing
25	2	37828-9675	Spacer L=185
26	1	37828-9707	Oil Plug Ø1/2" Gas
27	1	37828-9440	Housing
28	2	37828-9179	Oil Level Indicator Ø1" Gas All.
29	1	37828-9706	Oil Breather Plug Ø1/2" Gas
30	1	37828-17644	Spacer L=403
31	6	37828-4478	Nut M12
32	6	37828-12853	Screw/ M12x70
33	6	37828-3301	Screw, Hex-HD M12x25
34	1	37828-12863	Cover
35	1	37828-12629	Spacer
36	2	37828-9476	Pinion Z=13
37	1	37828-4910	Bearing 30208
38	1	37828-9445	Hub
39	1	37828-3342	Bearing 6208
40	1	37828-9509	Shaft
41	1	37828-9537	Oil Seal 48/80/10-DL
42	1	37828-9477	Gear Z=20
43	1	37828-12558	Shaft
44	1	37828-12828	Lateral Shaft
45	1	37828-12150	Complete Hub
46	2	37828-9539	Complete Calotte
47	1	37828-12658	Complete Exterior Calotte

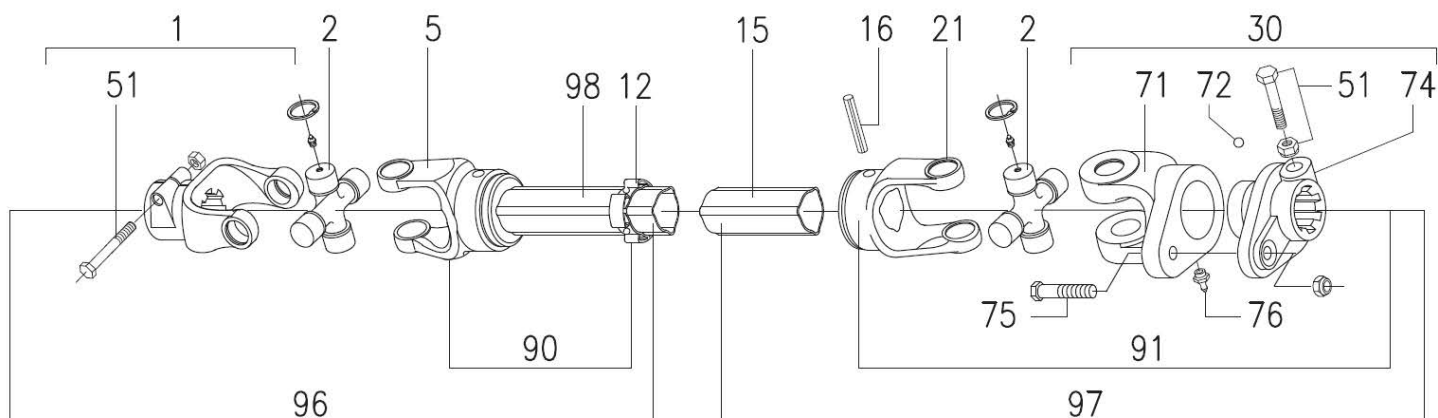
Poultry Beater Lower Gearbox - Current - 44836



Poultry Beater Lower Gearbox - Current - 44836

ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	44836-9126	SRT18 Main Box
2	3	44836-12624	SRT18 Side Boxes
3	4	44836-9137	SRT18 Ferrule
4	5	44836-9011	SRT18 Rosette
5	3	44836-9631	SRT18 Pinion Conical
6	6	44836-1259	SRT18 Bearing 32209
7	1	44836-1531	SRT18 Bearing 6311
8	2	44836-9604	SRT18 Crown Conical
9	1	44836-3430	SRT18 Seeger E55
10	1	44836-10594	SRT18 Shaft L-690
11	1	44836-9138	SRT18 Ferrule M40x1.5
12	3	44836-9124	SRT18 Distance Shell
13	3	44836-9139	SRT18 Ring
14	64	44836-3549	SRT18 Bolt M14x35
15	3	44836-9111	SRT18 Shell
16	3	44836-7481	SRT18 Ring
17	3	44836-13103	SRT18 Bearing 6311-2RS
18	2	44836-12645	SRT18 Shaft
19	3	44836-9123	SRT18 Spacer Crown
20	2	44836-9632	SRT18 Crown Conical
21	3	44836-3349	SRT18 Bearing 32210
22	3	44836-9134	SRT18 Gasket
23	1	44836-15298	SRT18 Spacer
24	8	44836-22371	SRT18 Screw M14x40
25	8	44836-9135	SRT18 Gasket
26	4	44836-19365	SRT18 Bracket
27	1	44836-14426	SRT18 Spacer L-178
28	1	44836-9707	SRT18 Plug 1/2"
29	2	44836-9179	SRT18 Indicator Light
30	1	44836-9301	SRT18 Plug 1"
31	1	44836-14427	SRT18 Spacer L-178
32	8	44836-1799	SRT18 Nut M14
33	8	44836-22343	SRT18 Bolt M14x80
34	1	44836-19362	SRT18 Spacer L-393
35	8	44836-4138	SRT18 Bolt M14x30
36	1	44836-20011	SRT18 Cover
37	1	44836-9133	SRT18 Gasket Hub
38	2	44836-9603	SRT18 Pinion Conical
39	1	44836-9127	SRT18 Hub
40	1	44836-9053	SRT18 Shaft
41	1	44836-7480	SRT18 Ring 55x85x10
42	1	44836-19364	SRT18 Shaft L-541
43	1	44836-16422	SRT18 Shaft
44	1	44836-9571	SRT18 Complete Hub
45	2	44836-12657	SRT18 Complete LH & Mid Asm
46	1	44836-16424	SRT18 Complete RH Asm

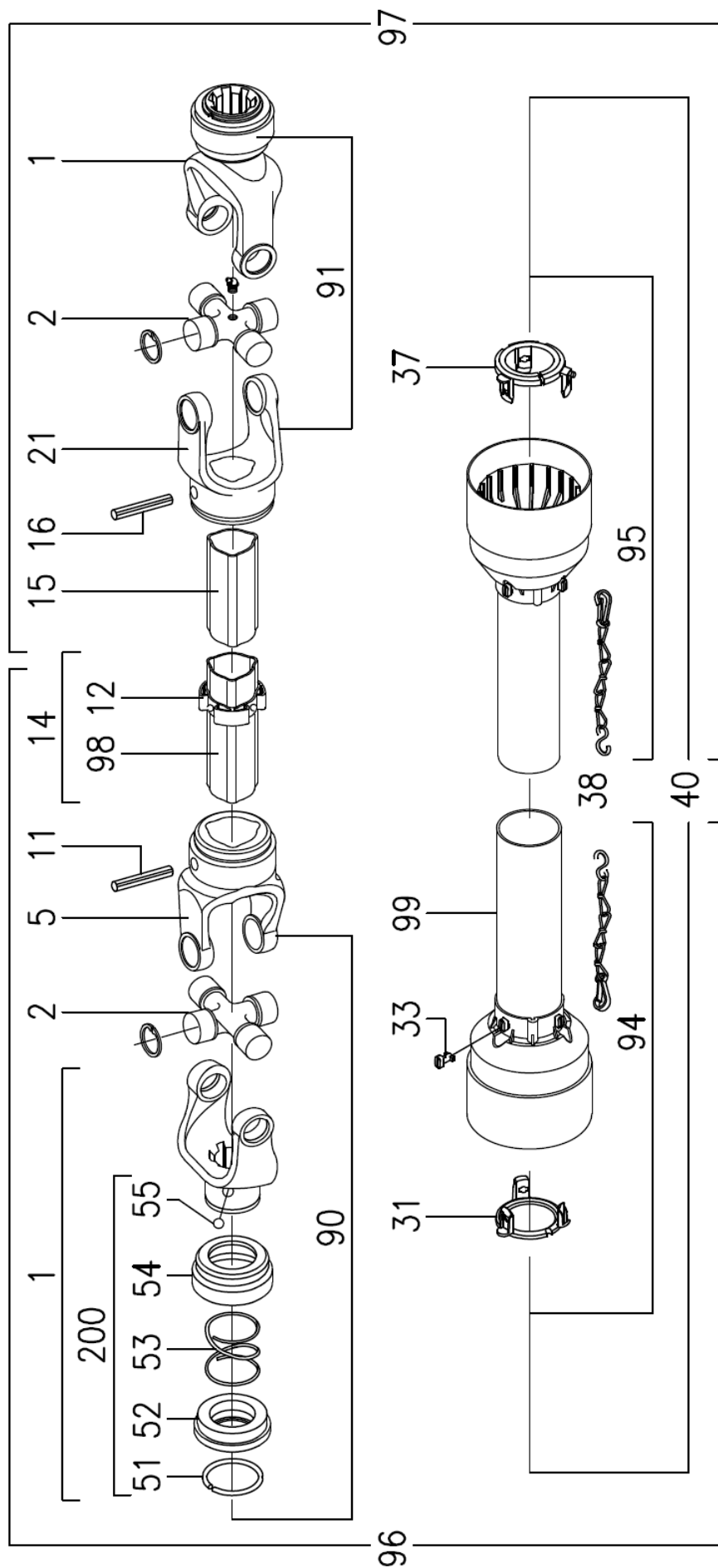
Poultry Beater Driveline - 39998



ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	PTO141.026.083.1	Interfering Clamp Bolt Yoke
2	2	PTO180.016.764	Cross Journal Set 30.2x92
5			Outer Yoke
11			Outer Tube Roll Pin
12	1	PTO180.016.316	Bushing with Grease Fitting
14			Complete Outer Tube L-130
15	1	PTO153.160.106	Inner Tube L-215
16	1	PTO190.000.016	Inner Tube Roll Pin
21	1	PTO151.016.029.1	Inner Yoke
30	1	PTO143.260.064.1	Complete Shear Bolt B35 (55xM8) 1.75Z20
51	3	PTO190.000.576	Bolt & Nut M16x2x80 cl.8.8
71	1	PTO151.016.176.1	Yoke for Hub B05 (55xM8)
72	24	PTO190.000.023	Ball 5/16" Dia
74	1	PTO151.016.937.1	Hub B35 (55xM8) 1.75Z20
75	6	PTO165.000.506	Bolt & Nut M8x1.25x60 cl.8.8
76	1	PTO190.000.021	Grease Fitting M10x1
90	1	PTO122.360.096.1	Female Tube Yoke w Label
91	1	PTO121.026.1418.11	U Joint for Inner Tube
96	1	PTO123.360.541.11	Half Female Shaft
97	1	PTO123.460.1108.11	Half Male Shaft
98	1	PTO190.000.216	DANGER Label for Outer Tube

Section 5 - PTOs

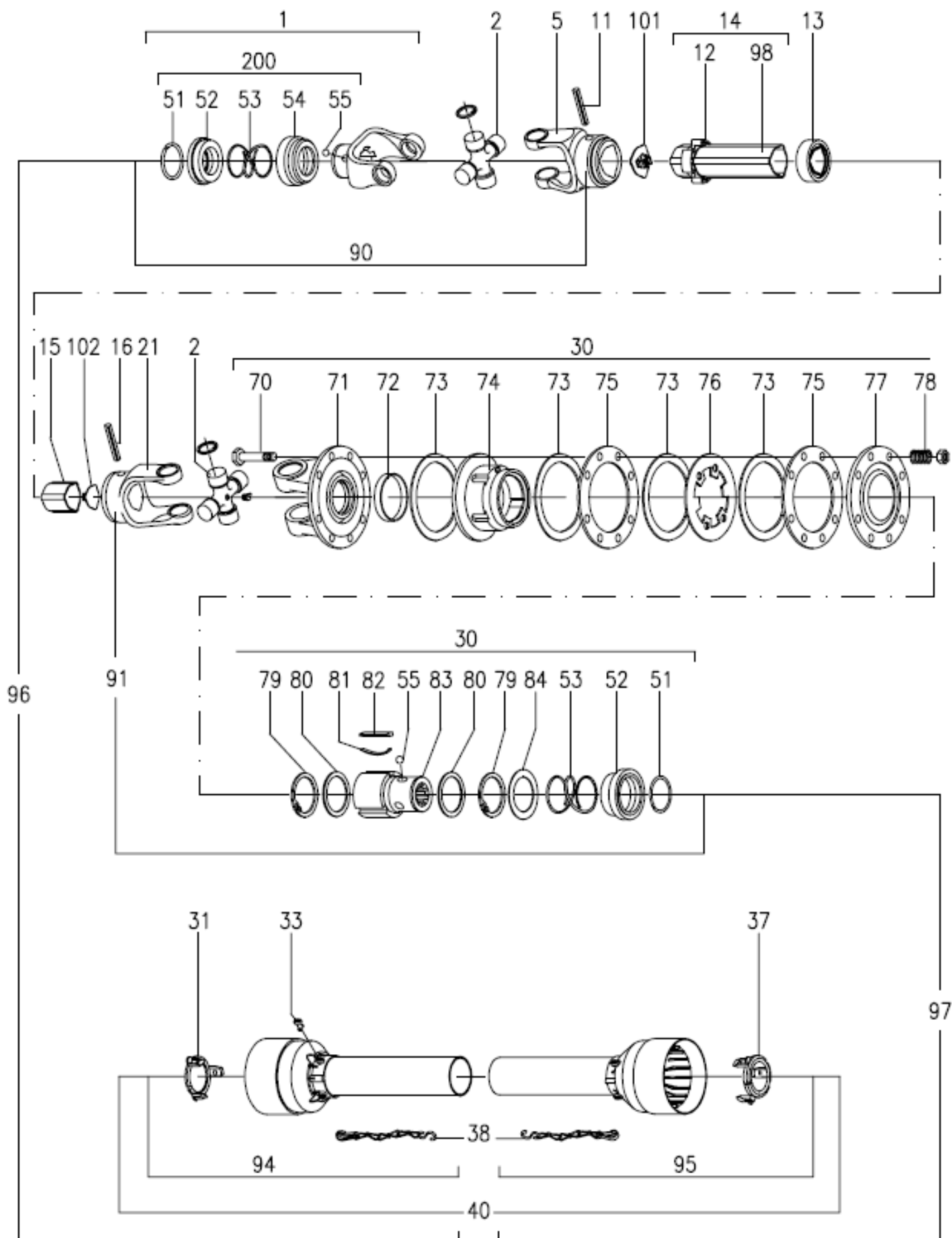
30839 - PTO Shaft - Primary Shaft for Manure Spreader N375RS-N600



30839 - PTO. 375,450,525,600,750 (V80-141P028359-028028-CV80-CLS)

ITEM	QTY	PART NUMBER	DESCRIPTION
1	2	PTO141.026.544	Complete Collar Yoke C12 1 3/8" Z6
2	2	PTO180.016.130	Cross Journal Set 30.2x92
5	1	PTO151.016.028	Outer Yoke
11	1	PTO190.000.018	Roll Pin for Outer Tube
12	1	PTO180.016.316	Bush with Grease Nipple
14	1	PTO152.170.271.0720	Complete Outer Tube L=850
15	1	PTO153.160.112	Inner Tube L=865
16	1	PTO190.000.016	Roll Pin for Inner Tube
21	1	PTO151.016.029	Inner Yoke
31	1	PTO180.016.016	Guard Retaining Collar for Outer Tube
33	6	PTO190.000.019	Bolt
37	1	PTO180.016.015	Guard Retaining Collar for Inner Tube
38	2	PTO180.016.025	Safety Chains
40	1	PTO142.260.429.7620	Complete Guard with Instruction Manual
51	2	PTO190.000.451	Outer Circlip
52	2	PTO151.016.486	Sliding Sleeve Collar
53	2	PTO180.016.487	Spring
54	2	PTO180.016.483	Fixed Sleeve
55	6	PTO190.000.078	Ball Ø 1/2"
90	1	PTO121.026.899.10	U Joint for Outer Tube
91	1	PTO121.026.900.10	U Joint for Inner Tube
94	1	PTO142.266.203.7620	Half Female Guard
95	1	PTO142.261.305.7620	Half Male Guard
96	1	PTO123.360.334.10	Half Female Shaft with Guarding
97	1	PTO123.460.773.10	Half Male Shaft with Guarding
98	1	PTO190.000.216	DANGER Label for Outer Tube
99	1	PTO190.000.215	DANGER Label for Outer Guard Tube
100	1	PTO190.000.371	Instruction Manual
200	2	PTO165.000.628	Kit Collar 1 3/8"

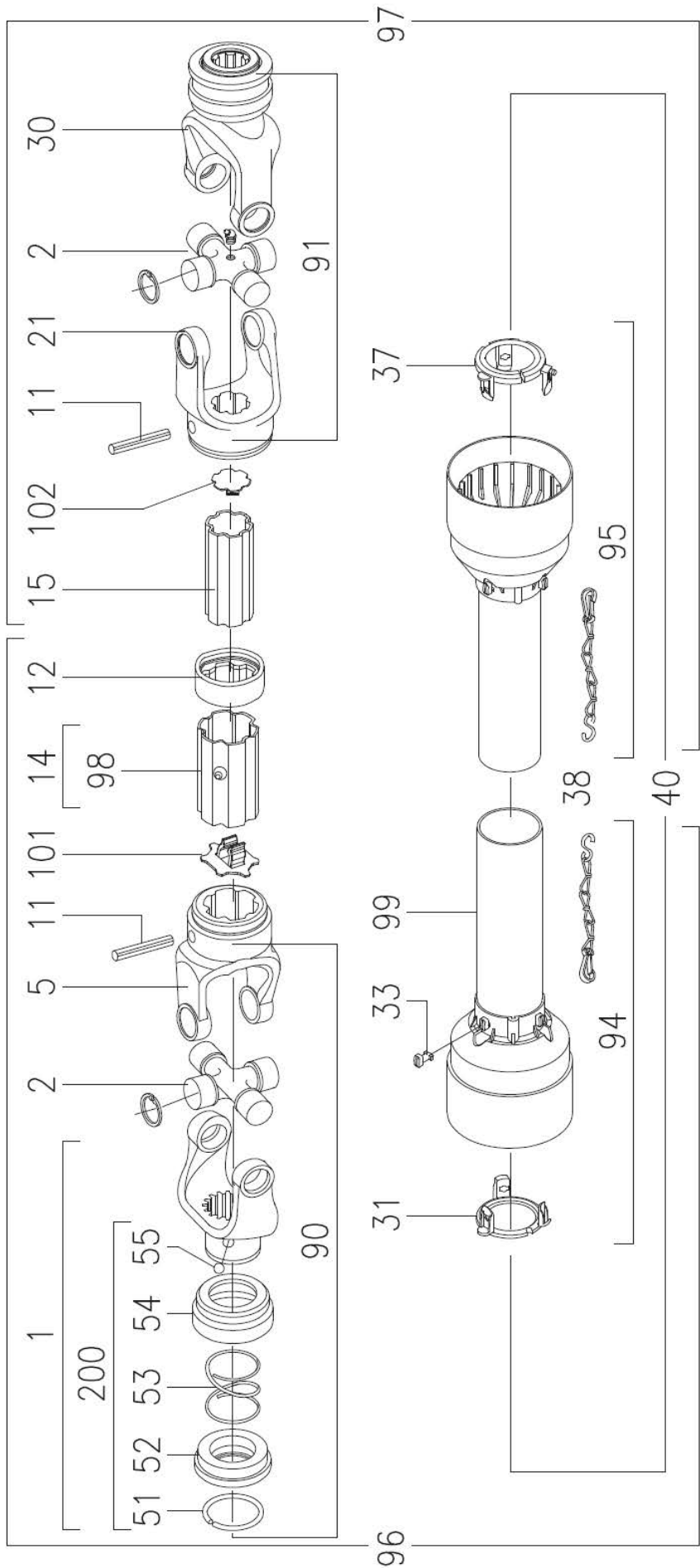
30840 - PTO Slip Clutch for Manure Spreader



30840 - PTO Slip Clutch for Manure Spreader

ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	PTO141.026.544	Complete Collar Yoke C12 1 3/8" Z6
2	2	PTO180.016.130	Cross Journal Set 30.2x92
5	1	PTO151.016.028	Outer Yoke
11	1	PTO190.000.018	Roll Pin for Outer Tube
12	1	PTO180.016.316	Bush for Grease Fitting
13	1	PTO180.016.572	Wiper
14	1	PTO152.170.366.0720	Complete Outer Tube L=1005
15	1	PTO153.160.114	Inner Tube L=1065
16	1	PTO190.000.016	Roll Pin for Inner Tube
21	1	PTO151.016.029	Inner Yoke
30	1	PTO146.364.001	Complete Disc Clutch RF6 (1400 Nm)
31	1	PTO180.016.016	Guard Retaining Collar for Outer Tube
33	6	PTO190.000.019	Bolt
37	1	PTO180.016.015	Guard Retaining Collar for Inner Tube
38	2	PTO180.016.636	Safety Chains
40	1	PTO142.260.496.7620	Complete Guard with Instruction Manual
51	2	PTO190.000.451	Outer Circlip
52	2	PTO151.016.486	Sliding Sleeve Collar
53	2	PTO180.016.487	Spring
54	1	PTO180.016.483	Fixed Sleeve
55	6	PTO190.000.078	Balls Ø1/2"
70	8	PTO165.000.548	Bolt M10x100 & nut
71	1	PTO.141.026.347	Flanged Yoke
72	1	PTO180.017.112	Bush
73	4	PTO180.017.106	Lining Ring
74	1	PTO141.027.107	Body RF with Grease Nipple
75	2	PTO180.017.105	Inner Plate
76	1	PTO180.017.104	Intermediate Plate
77	1	PTO180.017.114	Pressure Plate
78	8	PTO180.014.022	Spring
79	2	PTO190.000.183	Inner Circlip
80	2	PTO180.014.135	Retaining Washer
81	3	PTO180.014.137	Carriage Spring
82	3	PTO151.014.136	Tang
83	1	PTO151.016.546	Hub R12
84	1	PTO180.015.143	Spring Push Ring
90	1	PTO121.026.899.10	U Joint for Outer Tube
91	1	PTO121.026.747.10	U Joint for Inner Tube
94	1	PTO142.266.272.7620	Half Female Guard
95	1	PTO142.267.239.7620	Half Male Guard
96	1	PTO123.360.465.10	Half Female Shaft with Guarding
97	1	PTO123.460.1007.10	Half Male Shaft with Guarding
98	1	PTO190.00.216	DANGER Label for Outer Tube
99	1	PTO190.000.215	DANGER Label for Outer Guard Tube
100	1	PTO190.000.371	Instruction Manual
101	1	PTO180.016.468	Outer Closing Cap
102	1	PTO180.016.529	Inner Closing Cap
200	1	PTO165.000.628	Kit Collar 1 3/8"

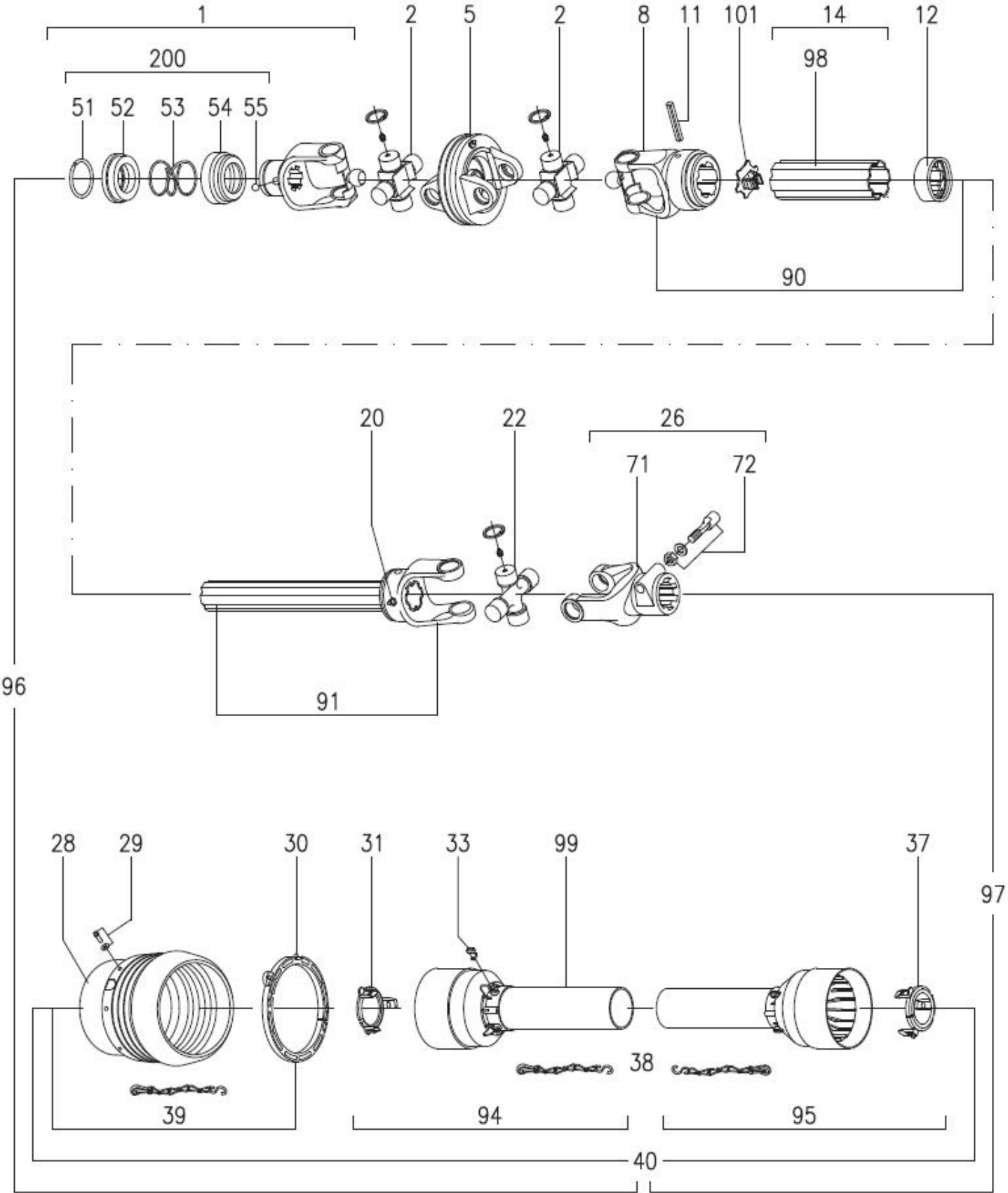
30841 - PTO Secondary Shaft - Manure Spreader



30841 - PTO Secondary Shaft - Manure Spreader

ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	PTO141.026.553	Complete Collar Yoke C13 1 3/8" Z21
2	2	PTO180.016.004	Cross Journal Set 30.2x92
5	1	PTO151.016.388	Outer Yoke
11	1	PTO8.4.5.02111	Roll Pin for Outer Tube
12	1	PTO180.016.573	Wiper
14	1	PTO150.260.014.0720	Complete Outer Tube L=355
15	1	PTO153.260.108	Inner Tube L=415
16	1	PTO190.000.018	Roll Pin for Inner Tube
21	1	PTO151.016.389	Inner Yoke
30	1	PTO141.026.544	Complete Collar Yoke C12 1 3/8" Z6
31	1	PTO180.016.016	Guard Retaining Collar for Outer Tube
33	6	PTO190.000.019	Bolt
37	1	PTO180.016.015	Guard Retaining Collar for Inner Tube
38	2	PTO180.016.790	Safety Chains
40	1	PTO142.260.505.9620	Complete Guard with Instruction Manual
51	2	PTO190.000.451	Outer Circlip
52	2	PTO151.016.486	Sliding Sleeve Collar
53	2	PTO180.016.487	Spring
54	2	PTO180.016.483	Fixed Sleeve
55	6	PTO190.000.078	Ball Ø 1/2"
90	1	PTO121.026.913.00	U Joint for Outer Tube
91	1	PTO121.026.912.00	U Joint for Inner Tube
94	1	PTO142.266.280.9620	Half Female Guard
95	1	PTO142.267.248.9620	Half Male Guard
96	1	PTO123.366.197.00	Half Female Shaft with Guard
97	1	PTO123.466.342.00	Half Male Shaft with Guard
98	1	PTO190.000.216	DANGER Label for Outer Tube
99	1	PTO190.000.215	DANGER Label for Outer Guard Tube
100	1	PTO190.000.371	Instruction Manual
101	1	PTO180.016.474	Outer Closing Cap
102	1	PTO180.016.575	Inner Closing Cap
200	2	PTO165.000.628	Kit Collar 1 3/8"

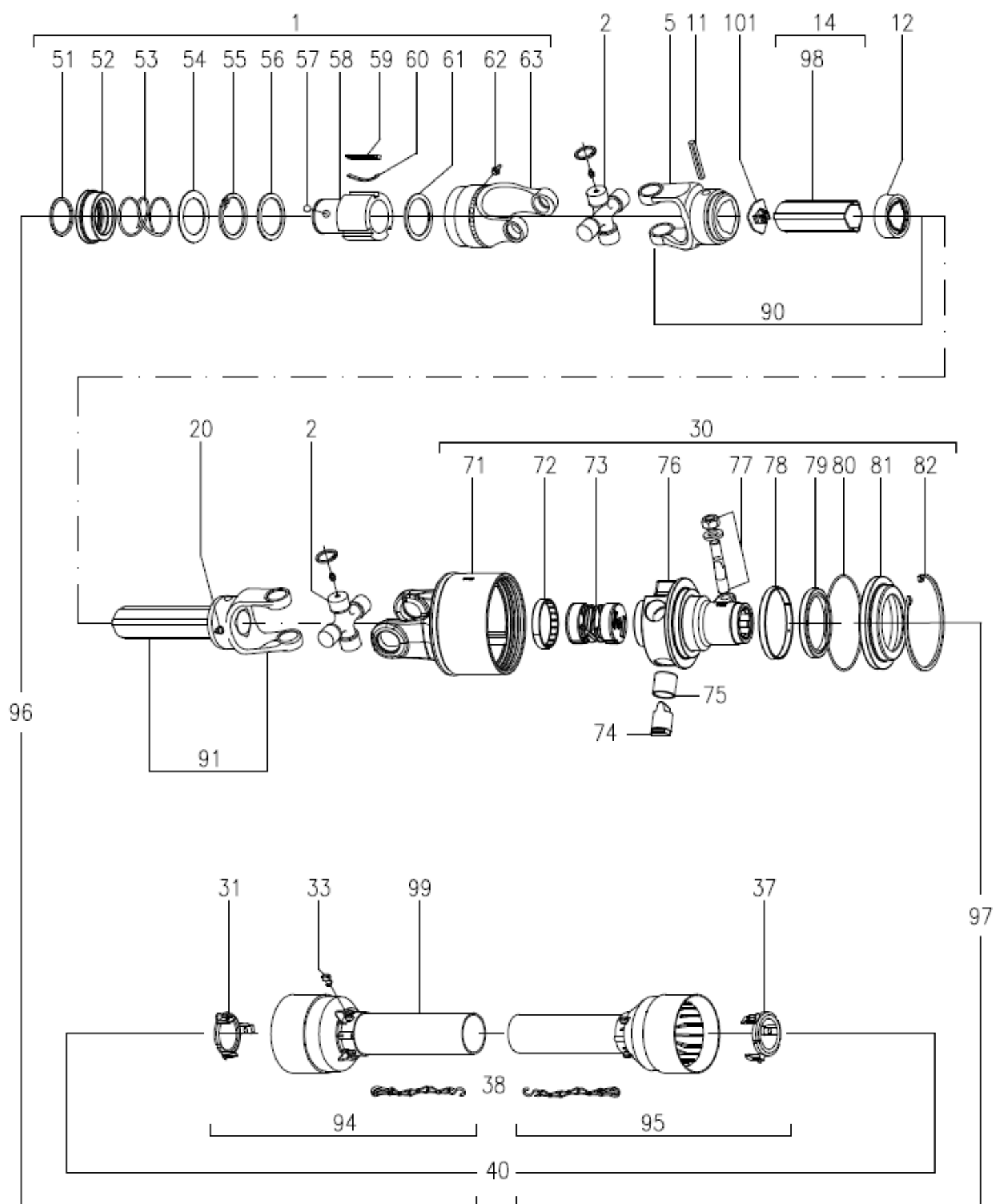
39850 - PTO. 375,450,525,600,750 (V80-141P028359-028028-CV80-CLS)



39850 - PTO. 375,450,525,600,750 (V80-141P028359-028028-CV80-CLS)

ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	PTO141.028.359.1	Complete Collar yoke C03 for CV-Joint
2	2	PTO180.018.580	Cross Journal Set for CV-Joint
5	1	PTO141.028.157.1	Wide Angle Double Yoke
8	1	PTO141.028.248.1	Outer Yoke
11	1	PTO190.000.243	Roll Pin for Outer Tube
12	1	PTO180.018.437	Wiper
14	1	PTO152.280.566.0720	Complete Outer Tube
20	1	PTO180.017.411	Grease Nipple for Lube
22	1	PTO180.018.641	Cross Journal Set
26	1	PTO141.028.028.1	Complete Yoke 132
28	1	PTO180.018.582	Guard Cone for Wide Angle CV-Joint
29	6	PTO165.000.694	Screw Kit
30	1	PTO158.018.582	Bearing Ring
31	1	PTO180.018.251	Guard Retaining Collar for Outer Tube
33	3	PTO180.014.240	Bolt
37	1	PTO180.018.252	Guard Retaining Collar for Inner Tube
38	1	PTO180.016.790	Safety Chains
39	1	PTO165.000.801	Guard Cone Set
40	1	PTO142.981.078.2821	Complete Guard with Instruction Manual
51	1	PTO190.000.451	Outer Circlip
52	1	PTO151.016.486	Sliding Sleeve Collar
53	1	PTO180.016.487	Spring
54	1	PTO180.016.483	Fixed Sleeve
55	3	PTO190.000.078	Ball Ø 1/2"
71	1	PTO151.018.028.1	Yoke 132
72	1	PTO165.000.502	Tapered Pin Set 1" 3/8
90	1	PTO122.981.049.1	Female Tube with Yoke and Lube System
91	1	PTO122.580.526.1	Male Tube with Yoke and Lube System
94	1	PTO142.283.260.2821	Half Female Guarding with Label
95	1	PTO142.287.230.2821	Half Male Guarding
96	1	PTO199811410F05006	Half Female Shaft with Guarding
97	1	PTO123.486.358.01	Half Male Shaft with Guarding
98	1	PTO190.000.216	DANGER Label for Outer Tube
99	1	PTO190.000.215	DANGER Label for Outer Guard Tube
100	1	PTO190.000.371	Instruction Manual
101	1	PTO180.018.393	Plastic Cap for Outer Tube
200	1	PTO165.000.628	Kit Collar for Yoke 1 3/8"

39852 - PTO. 600, 750,275,725 (T60-086P265011-306028-CLS(2500NM))



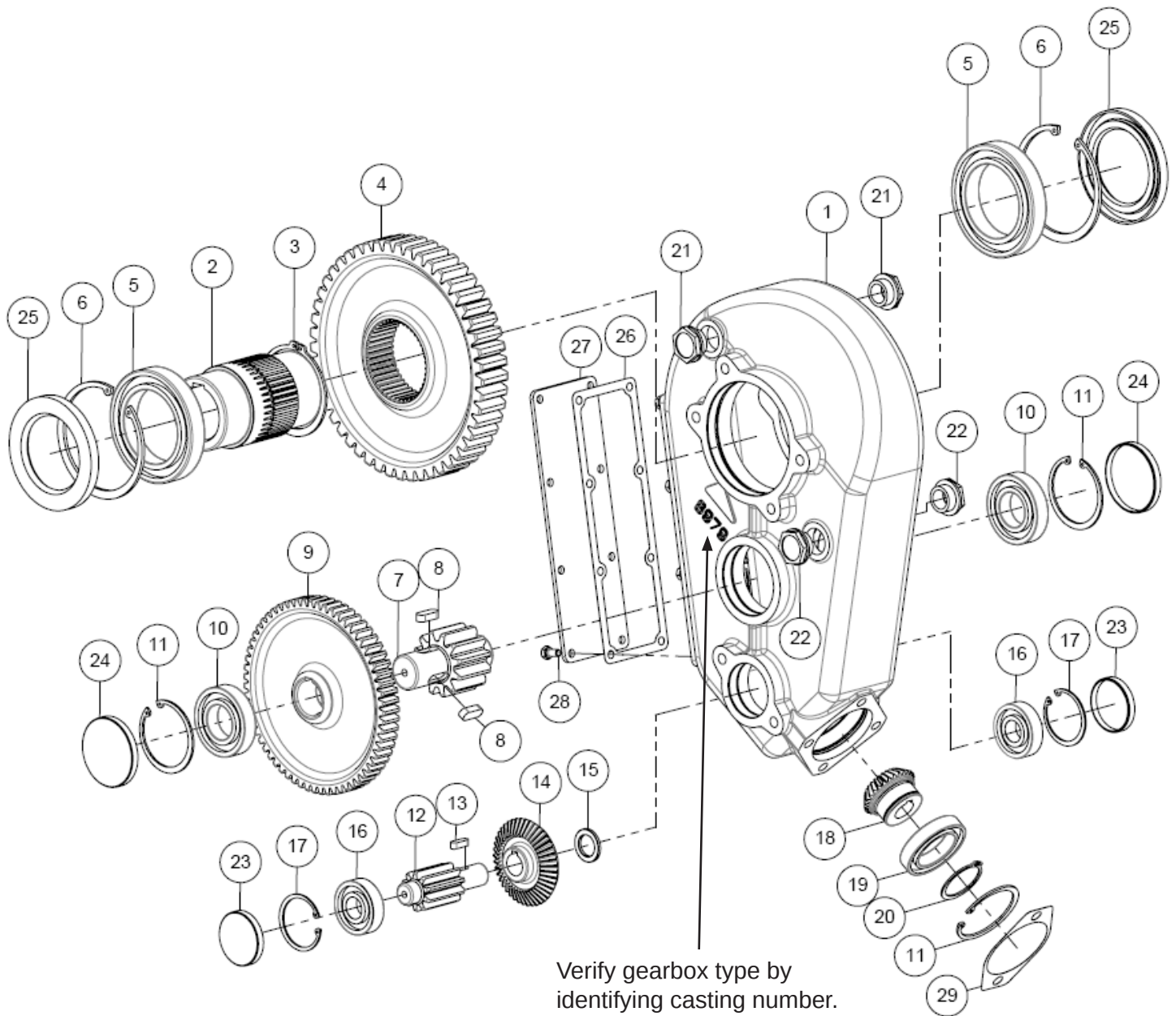
39852 - PTO. 600, 750,275,725 (T60-086P265011-306028-CLS(2500NM))

ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	PTO145.265.011.1	Complete Overrunning Clutch R12
2	2	PTO180.016.780	Cross Journal Set
5	1	PTO151.016.028.1	Outer Yoke
11	1	PTO190.000.018	Roll Pin for Outer Tube
12	1	PTO180.016.572	Wiper
14	1	PTO152.160.435.0720	Complete Outer Tube
20	1	PTO180.017.411	Grease Nipple for Lube
30	1	PTO144.366.050.1	Complete automatic torque limiter LA4 (2500Nm)
31	1	PTO180.016.237	Guard Retaining Collar for Outer Tube
33	6	PTO180.014.240	Bolt
37	1	PTO180.016.238	Guard Retaining Collar for Inner Tube
38	2	PTO180.016.790	Safety Chains
40	1	PTO142.260.536.7621	Complete Guard with Instruction Manual
51	1	PTO190.000.451	Outer Circlip
52	1	PTO151.016.486	Sliding Sleeve Collar
53	1	PTO180.016.487	Spring
54	1	PTO180.015.143	Spring Push Ring
55	1	PTO190.000.183	Inner Circlip
56	1	PTO180.014.135	Retaining Washer
57	3	PTO190.000.078	Ball
58	1	PTO151.016.546	Hub R12 (1 3/8" Z6)
59	3	PTO151.014.136	Ratchet
60	3	PTO151.014.137	Leaf Spring
61	1	PTO190.000.199	Retaining Washer
62	1	PTO190.000.020	Grease Nipple M8x1
63	1	PTO141.026.210.1	Outer Casting with Yoke
71	1	PTO144.306.009.1	Automatic Torque Limiter (1 3/4" Z6)
72	8	PTO165.000.708	Special Screw M12x1.25x25 w/ Washers Type "SCHNOOR"
73	1	PTO141.028.411.1	Outer Casing
74	1	PTO165.000.713	Complete Hub (3000Nm w/o Springs)
75	1	PTO180.018.400	Grease Retaining
76	4	PTO151.018.390	Ratchet
77	2	PTO165.000.752	Bolts M12x1.25x60 & Nuts
90	1	PTO122.360.088.1	Female Tube with Yoke and Lube System
91	1	PTO122.360.568.1	Male Tube with Yoke and Lube System
94	1	PTO142.266.311.7621	Half Female Guarding with Guarding
95	1	PTO142.267.286.7621	Half Male Guarding
96	1	PTO123.360.519.11	Half Female Shaft with Guarding
97	1	PTO123.460.180.11	Half Male Shaft with Guarding
98	1	PTO190.000.216	"DANGER" Label for Outer Tube
99	1	PTO190.000.215	"DANGER" Label for Outer Guard Tube
100	1	PTO190.000.371	Instruction Manual
101	1	PTO180.016.468	Plastic Cap for Outer Tube

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Section 6 - Gearboxes

30842 - Apron Chain Gearbox

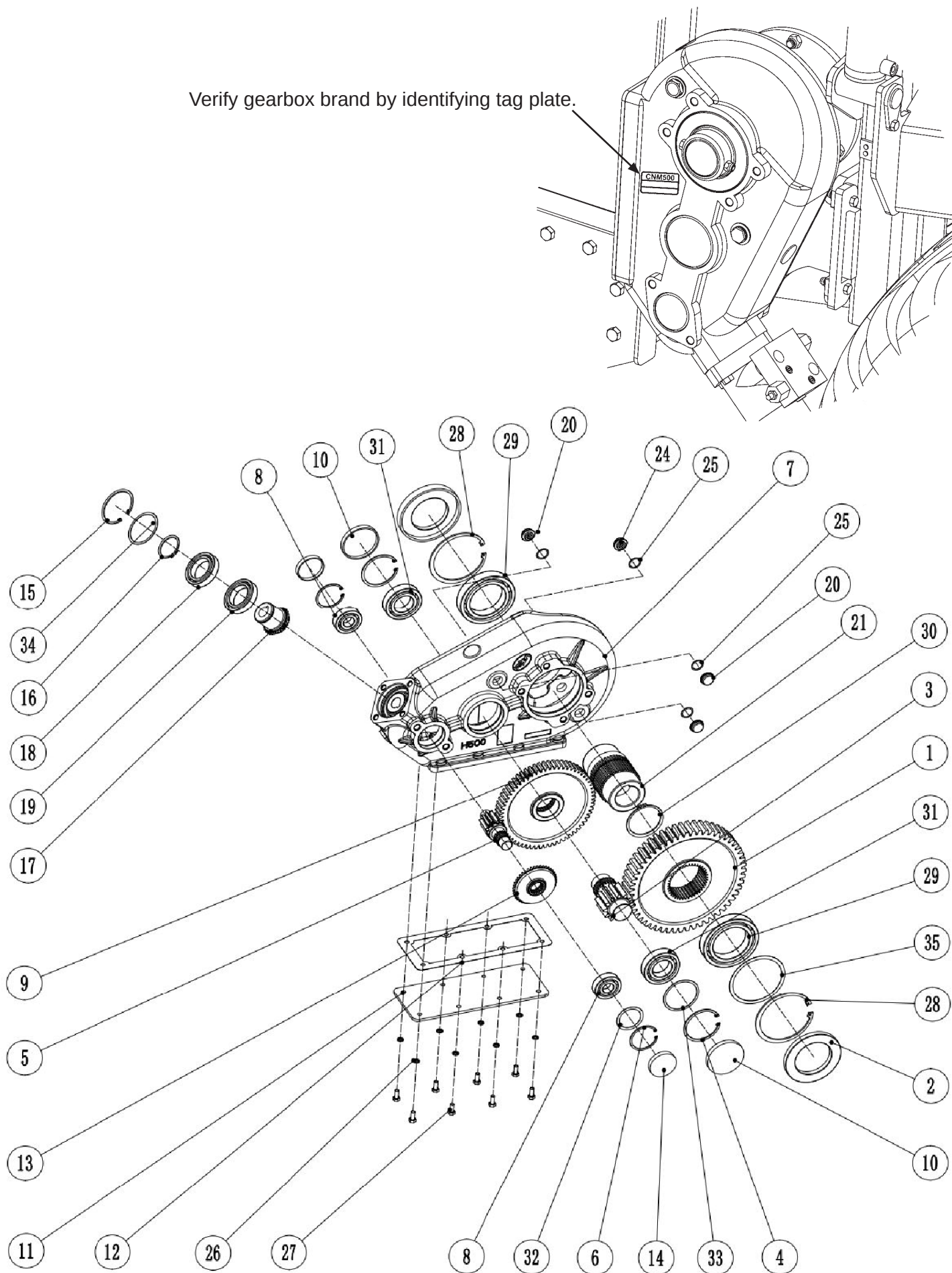


30842 - Apron Chain Gearbox

ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	30842-08979	Box
2	1	30842-08995	Hub
3	1	30842-09066	Circlip
4	1	30842-08996	Gear
5	2	30842-09067	Ball Bearing
6	2	30842-09069	Circlip
7	1	30842-09009	Gear
8	2	30842-04174	Key
9	1	30842-09007	Gear
10	2	30842-10509	Ball Bearing
11	3	30842-03435	Circlip
12	1	30842-09008	Gear
13	1	30842-03396	Keystock
14	1	30842-8670-2	Gear
15	1	30842-09010	Spacer
16	2	30842-08596	Ball Bearing
17	2	30842-03433	Circlip
18	1	30842-8670-1	Gear
19	1	30842-01538	Ball Bearing
20	1	30842-03428	Circlip
21	2	30842-09175	Plug
22	2	30842-01831	Plug - Sight Glass
23	2	30842-08625	Seal
24	2	30842-08243	Seal
25	2	30842-09068	Seal
26	1	30842-09064	Gasket
27	1	30842-09065	Cover
28	8	30842-03284	Bolt
29	1	30842-08671	Gasket

49995 - Apron Chain Gearbox

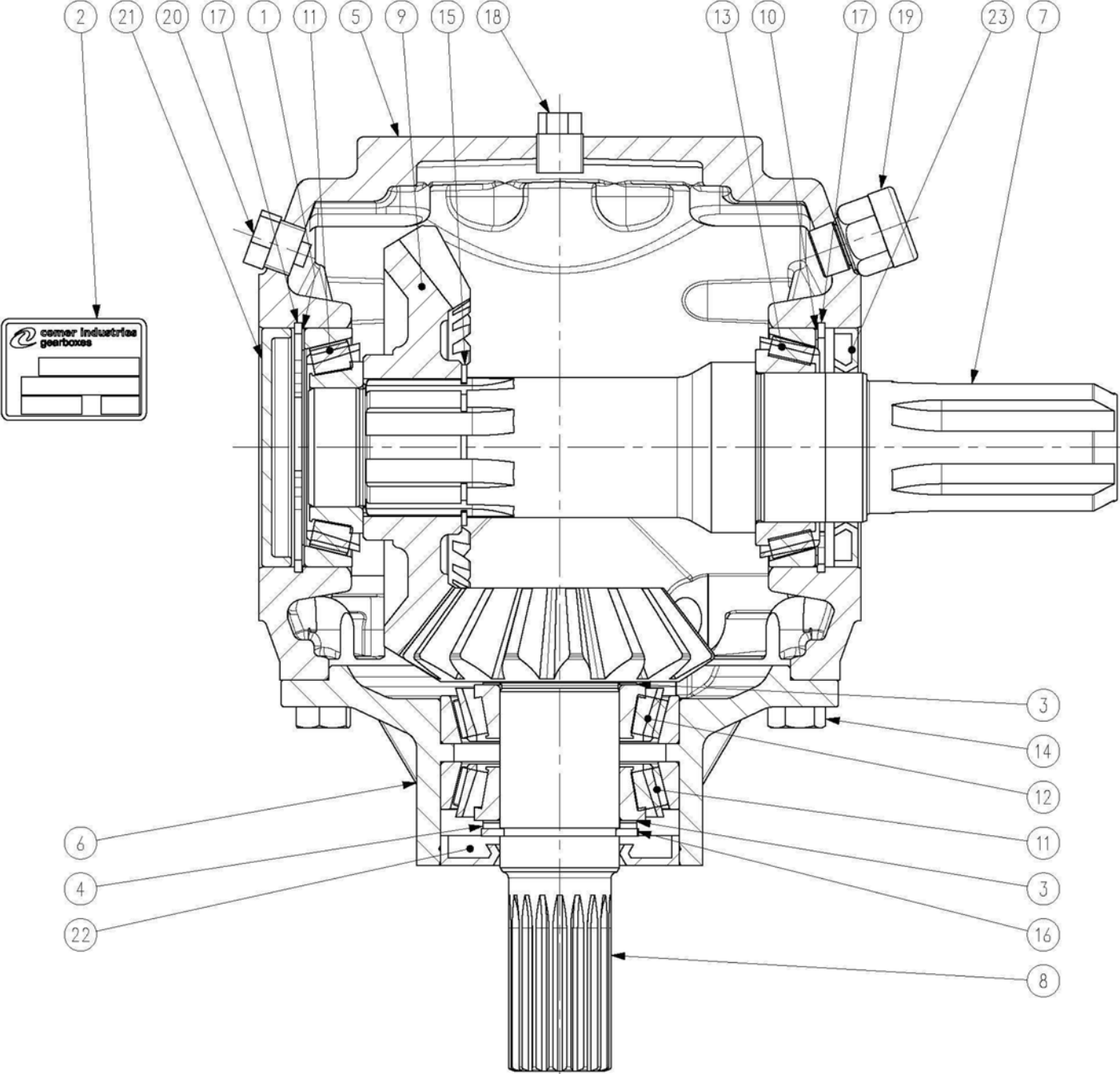
Verify gearbox brand by identifying tag plate.



49995 - Apron Chain Gearbox

ITEM	QTY	PART NUMBER	DESCRIPTION	NOTE
1	1	49995-01	Gear M5-54	
2	2	49995-02	Seal 130 85 12	
3	1	49995-03	Gearshaft	
4	2	49995-04	Circlips For DIN472 85	
5	1	49995-05	Gearshaft	
6	2	49995-06	Circlips For 62	
7	1	49995-07	Housing CNM500	
8	2	49995-08	Bearing 6305	
9	1	49995-09	Gear	
10	2	49995-10	Seal Cover 85 10	
11	1	49995-11	Cover	
12	1	49995-12	Seal Gasket	
13	1	49995-13	Bevel Gear	
14	2	49995-14	Seal Cover 62 10	
15	1	49995-15	Circlips 80	
16	1	49995-16	Circlips For Shaft 50	
17	1	49995-17	Bevel Gear	
18	1	49995-18	Bearing 6010-2RS1	
19	1	49995-19	Bearing 6010	
20	2	49995-20	Oil Level G3/4"	Items 20-25
21	1	49995-21	Shaft 60 Dia	
24	2	49995-24	Vent Plug G3/4"	
25	2	49995-25	Gasket 3/4"	
26	8	49995-26	Washer GB/T95 8	
27	8	49995-27	Hex Bolt M8x16	
28	2	49995-28	Circlips DIN472 130	
29	2	49995-29	Bearing 6017	
30	1	49995-30	Circlip For Shaft DIN471 95	
31	2	49995-31	Bearing 6209	
32		49995-32	Shim Kit 50x61.8x0.2/0.5/0.1	
33		49995-33	Spacer Tube 79.8x70x0.2/0.5	
34		49995-34	Spacer Tube 79.8x70x0.2/0.5	
35		49995-35	Bearing 6017	
		49996-RK	CNM500R Repair Kit	
		49996-SK	CNM500R Seal Kit	

30847-2 - 1 3/4" Spline Shaft Gearbox (9.278.760.00)

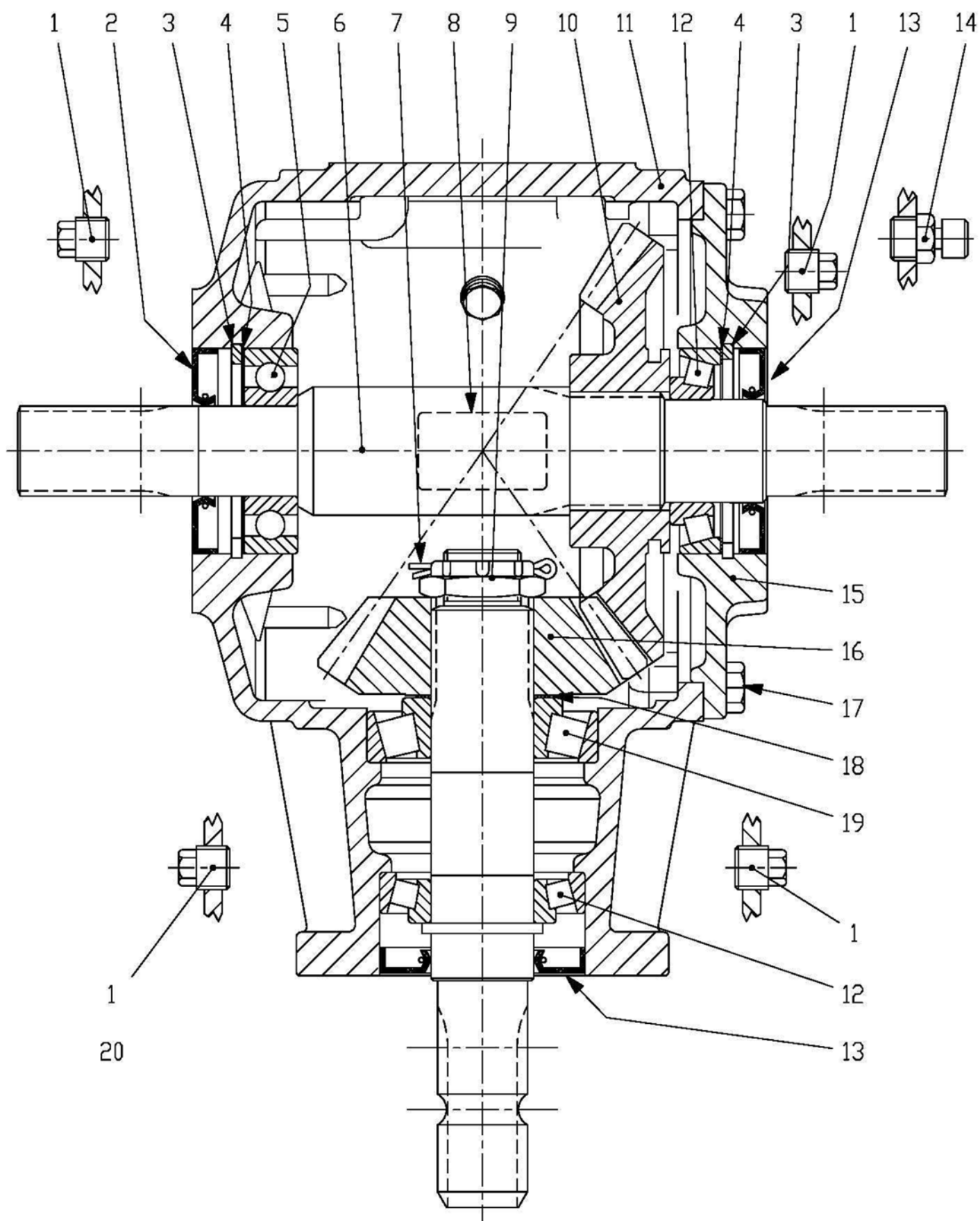


30847-2 - 1 3/4" Spline Shaft Gearbox (9.278.760.00)

ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	0.110.7500.00	Shim 65.3 X 79.7
2	1	0.124.7101.00	Plate "Comer"
3	2	0.244.7500.00	Shim Kit 40.3x51.5
4	1	0.244.7520.00	Shim 40.3x2.0
5	1	0.278.0304.00	Casing
6	1	0.278.1354.00	Extension
7	1	0.278.2218.00	Shaft 1"3/4 Z6
8	1	0.278.5240.00	Pinion Shaft Z15 M6.2
9	1	0.278.6004.00	Crown Wheel Z24 M6.2
10	1	0.660.7500.00	Shim 79.9
11	2	8.0.9.00024	Bearing 30208
12	1	8.0.9.01060	Bearing 30208
13	1	8.0.9.01241	Bearing 32010 X
14	8	8.1.1.00061	Bolt HH M10x25 UNI5739 8.8
15	1	8.5.1.00260	Snap Ring 46 UNI7435
16	1	8.5.1.00680	Snap Ring Shaft D40 UNI7436
17	2	8.5.2.00030	Snap Ring Hole D80 UNI7437
18	1	8.6.5.00006	Plug External 3/8" Gas
19	1	8.6.7.00161	Breather Plug 3/8" Gas
20	1	8.6.8.01975	Magnetic Plug 3/8" Gas
21	1	8.7.0.00790	Cap 80x10
22	1	8.7.3.00027	Oil Seal 40x80x10
23	1	8.7.3.02599	Dust Lip

NOTE: Order Part No. 45442 (Includes Items 7,13,23 and 43409) to update gearbox 30847 (1-3/8" Keywayed Gearbox), or 30847-1 (1-3/8" Spline Shaft Gearbox).

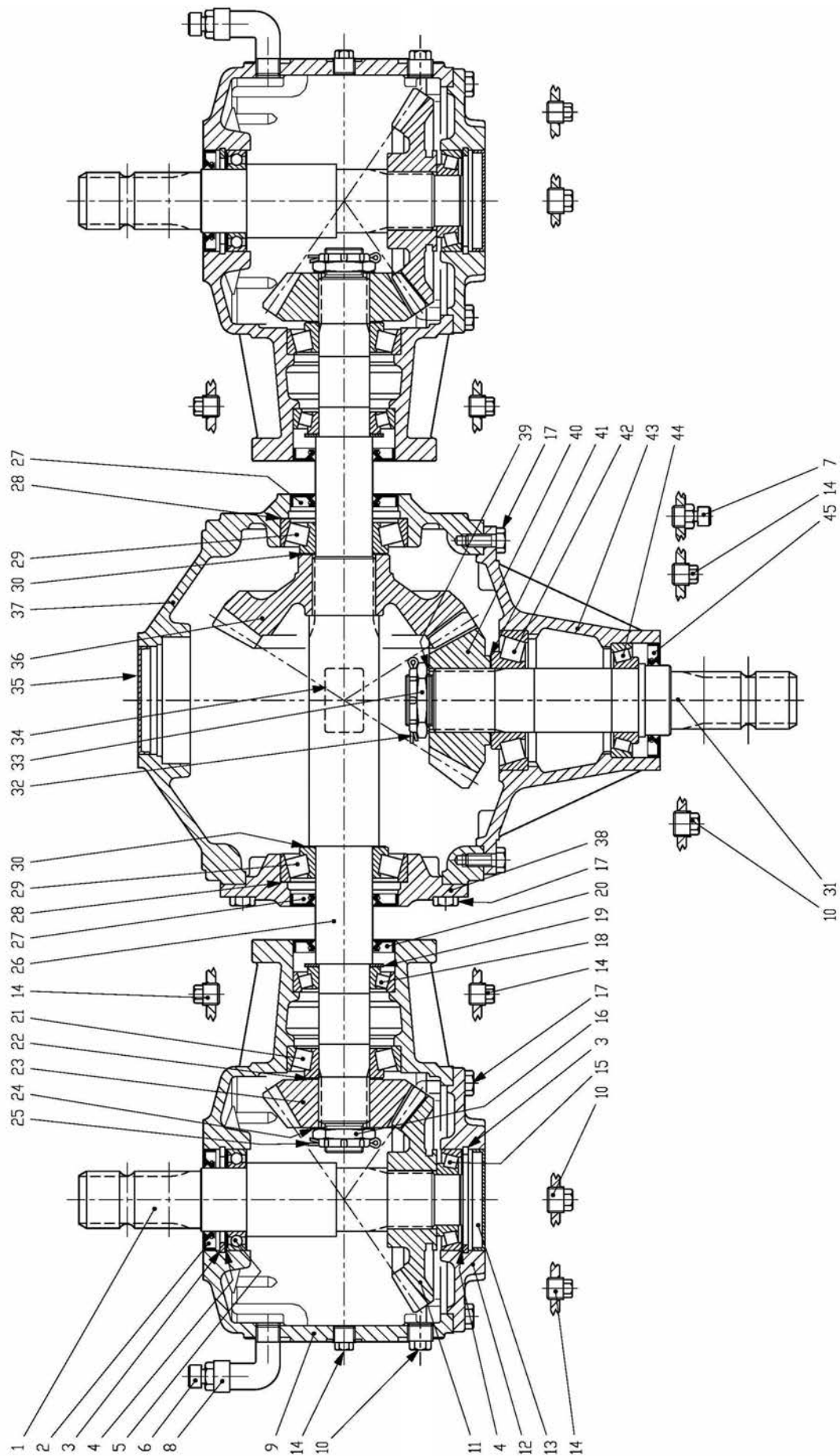
30848 - Centre Gearbox (9.290.621.00)



30848 - Centre Gearbox (9.290.621.00)

ITEM	QTY	PART NUMBER	DESCRIPTION
1	4	8.6.5.00006	Plug 3/8" Gas
2	1	8.7.3.00081	Oil Seal 35x80x10
3	2	8.5.2.01370	Snap Ring 80 UNI7438
4	2	0.267.7500.00	Shim 79.9
5	1	8.0.1.00049	Ball Bearing 6307
6	1	0.290.3216.00	Shaft 35x31 DIN 5482
7	1	8.4.7.01111	Cotter Pin B4x55
8	1	0.124.7101.00	Plate
9	1	0.132.7106.00	Nut M30x1.5
10	1	0.272.5001.00	Crown Wheel Z28 M6.22
11	1	0.290.0308.00	Casing
12	2	8.0.9.00024	Bearing 30208
13	2	8.7.3.00027	Oil Seal 40x80x10
14	1	8.6.7.00161	Oil Filler Plug 3/8" Gas
15	1	0.290.1367.00	Cover
16	1	0.272.6001.00	Pinion Z19 M6.22
17	8	8.1.1.00061	Bolt M10x25 8.8
18	1	0.244.7500.00	Shim Kit 40.3x51.5
19	1	8.0.9.00128	Bearing 30308
20	1	0.290.2001.00	Shaft

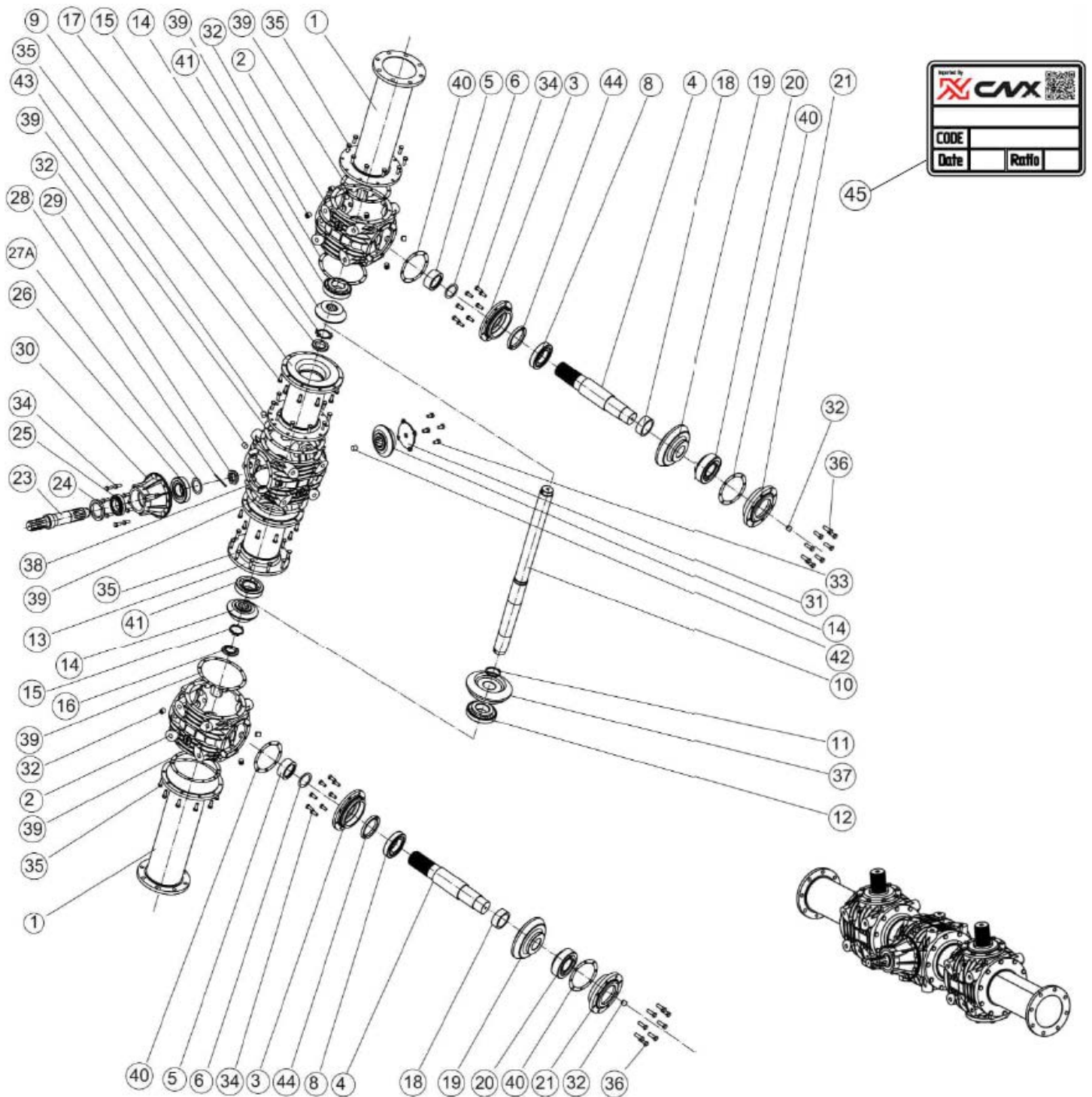
30846 - One Piece Gearbox (9.301.279.00)



30846 - One Piece Gearbox (9.301.279.00)

ITEM	QTY	PART NUMBER	DESCRIPTION
1	2	0.290.3055.00	Shaft 1" 3/8 Z6
2	2	8.7.1.01929	Oil Seal Baud SL 50X80X10
3	4	8.5.2.01370	Snap Ring 80 UNI7438
4	4	0.267.7500.00	Shim 69.0x79.9
5	2	8.0.1.01344	Bearing 6010 2RS
6	2	8.6.7.01833	Oil Filler Plug 1/2" Gas
7	1	8.6.7.00161	Filler Breather Plug 3/8" Gas
8	2	8.6.0.01245	Elbow 90 Degree 1/2" Gas
9	2	0.290.0507.00	Casing
10	6	8.6.5.00203	Plug with Ex. Hex 1/2" Gas
11	2	0.272.5001.00	Crown Wheel Z28 M6.22
12	2	0.290.1367.00	Cover
13	2	8.7.0.00790	Gear Box Cap 80X10
14	9	8.6.5.00006	Plug Hexagon 3/8" Gas
15	2	8.0.9.01060	Bearing 30208
16	2	0.132.7106.00	Nut M30 X 1.5
17	34	8.1.1.00061	Bolt M10X25-8,8
18	2	8.0.9.00024	Bearing 30208
19	2	0.285.7525.00	Shim 61.7 X 2.5
20	2	8.7.1.00999	Double Lip Seal 45X80X10
21	2	8.0.9.00128	Taper Roller Bearing 30308
22	2	0.244.7500.00	Shim Kit 40.3 X 51.5
23	2	0.272.6001.00	Pinion Z19 M6.22
24	2	0.441.7510.00	Shim
25	2	8.4.7.01111	Cotter Pin B4X55
26	1	0.301.3017.00	Shaft 1" 3/4 Z6
27	2	8.7.1.02348	Oil Seal 45X85X10
28	1	0.703.7500.00	Shim 99.7
29	2	8.0.9.00107	Bearing 30309
30	2	0.252.7500.00	Shim 45.3 X 65.3
31	1	0.301.2000.00	Shaft 1" 3/4 Z6
32	1	8.4.7.01112	Cotter Pin B4X60
33	1	0.132.7107.00	Castle Nut M40 X 1.5
34	1	0.124.7101.00	Plate
35	1	0.121.7101.00	Cap 85 X 10
36	1	0.301.6002.00	Crown Wheel Z27 M7.5
37	1	0.301.0300.00	Casing
38	1	0.301.1302.00	Cover
39	1	0.244.7510.00	Shim 40.3 X 1.0
40	1	0.301.5002.00	Pinion Z17M7.5
41	1	0.712.7500.00	Shim 70.3
42	1	8.0.9.00268	Bearing 30310
43	1	0.301.1300.00	Extension
44	1	8.0.9.00469	Bearing 30210
45	1	8.7.1.01099	Double Lip Seal 55X90X10

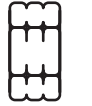
49604 - Beater Gearbox - SN 25NS203 to Current



49604 - Beater Gearbox - Up to SN 25NS203 to Current

ITEM	QTY	PART NUMBER	DESCRIPTION
1	2	49604-1	Supporting Tube
2	2	49604-2	Side Housing
3	2	49604-3	Support Bearing
4	2	49604-4	Output Spline Shaft
5	2	49604-5	Bushing
6	2	49604-6	O-ring 70x3.5
7	2	49604-7	Seal 85x110x13
8	2	49604-8	Bearing 6213-2RS
9	1	49604-9	Left Support Tube
10	1	49604-10	Shaft
11	1	49604-11	Shaft Circlip 60mm
12	1	49604-12	Bearing 31312
13	1	49604-13	Right Support Tube
14	3	49604-14	Left Gear M8 Z16
15	2	49604-15	Tooth Lockwasher 45
16	1	49604-16	Slotted Round Nut M45x1.5 Left
17	1	49604-17	Slotted Round Nut M45x1.5
18	2	49604-18	Bushing M45x1.5
19	2	49604-19	Right Gear M8-Z25-1
20	2	49604-20	Bearing 32312
21	2	49604-21	Support Bearing
22	2	49604-22	Seal 100x10
23	1	49604-23	Input Shaft
24	1	49604-24	Seal 60x90x10
25	1	49604-25	Bearing 30210
26	1	49604-26	Bearing 30310
27A	1	49604-27A	Gasket 50.2x68x2
27B		49604-27B	Gasket 50.2x68x0.5
28	1	49604-28	Pin 50x8x2
29	1	49604-29	Nut M40x1.5
30	1	49604-30	Bushing
31	1	49604-31	Cover
32	10	49604-32	Oil Plug NPT 1/2
33	4	49604-33	Hex Bolt M12x20
34	24	49604-34	Hex Bolt M10x25
35	60	49604-35	Hex Bolt M10x30
36	16	49604-36	Hex Bolt M10x30
37	1	49604-37	Right Gear M8-Z25-2
38	1	49604-38	Middle Housing
39	6	49604-39	Paper Gasket
40	4	49604-40	Paper Gasket
41	2	49604-41	Bearing 30311
42	2	49604-42	Sight Glass G1/2
43	1	49604-43	Breather Plug NPT 1/2
44	2	49604-44	Skelton Oil Seal 86 110 13

Torque Values - Imperial

SAE Grade and Head Markings	1 or 2 ^b 	5 	5.1 	5.2 	8 	8.2 
SAE Grade and Nut Markings	2 	5 	5 	5 	8 	8 

Size	Grade 1				Grade 2 ^b				Grade 5, 5.1, or 5.2				Grade 8 or 8.2			
	Lubricated ^a		Dry ^a		Lubricated ^a		Dry ^a		Lubricated ^a		Dry ^a		Lubricated ^a		Dry ^a	
	N-m	lb-ft	N-m	lb-ft	N-m	lb-ft	N-m	lb-ft	N-m	lb-ft	N-m	lb-ft	N-m	lb-ft	N-m	lb-ft
1/4	3.7	2.8	4.7	3.5	6	4.5	7.5	5.5	9.5	7	12	9	13.5	10	17	12.5
5/16	7.7	5.5	10	7	12	9	15	11	20	15	25	18	28	21	35	26
3/8	14	10	17	13	22	16	27	20	35	26	44	33	50	36	63	46
7/16	22	16	28	20	35	26	44	32	55	41	70	52	80	58	100	75
1/2	33	25	42	31	53	39	67	50	85	63	110	80	120	90	150	115
9/16	48	36	60	45	75	56	95	70	125	90	155	115	175	130	225	160
5/8	67	50	85	62	105	78	135	100	170	125	215	160	240	175	300	225
3/4	120	87	150	110	190	140	240	175	300	225	375	280	425	310	550	400
7/8	190	140	240	175	190	140	240	175	490	360	625	450	700	500	875	650
1	290	210	360	270	290	210	360	270	725	540	925	675	1050	750	1300	975
1-1/8	400	300	510	375	400	300	510	375	900	675	1150	850	1450	1075	1850	1350
1-1/4	570	425	725	530	570	425	725	530	1300	950	1650	1200	2050	1500	2600	1950
1-3/8	750	550	950	700	750	550	950	700	1700	1250	2150	1550	2700	2000	3400	2550
1-1/2	1000	725	1250	925	990	725	1250	930	2250	1650	2850	2100	3600	2650	4550	3350

DO NOT use these values if a different torque value or tightening procedure is given for a specific application. Torque values listed are for general use only. Check tightness of fasteners periodically.

Shear bolts are designed to fail under predetermined loads. Always replace shear bolts with identical grade.

Fasteners should be replaced with the same or higher grade. If higher grade fasteners are used, these should only be tightened to the strength of the original.

Make sure fasteners threads are clean and that you properly start thread engagement. This will prevent them from failing when tightening.

Tighten plastic insert or crimped steel-type lock nuts to approximately 50 percent of the dry torque shown in the chart, applied to the nut, not to the bolt head. Tighten toothed or serrated-type lock nuts to the full torque value.

^a "Lubricated" means coated with a lubricant such as engine oil, or fasteners with phosphate and oil coatings. "Dry" means plain or zinc plated without any lubrication.

^b Grade 2 applies for hex cap screws (not hex bolts) up to 152 mm (6-in.) long. Grade 1 applies for hex cap screws over 152 mm (6-in.) long, and for all other types of bolts and screws of any length.

Torque Values - Metric

Property Class and Head Markings	4.8		8.8		9.8		10.9		12.9	
										
Property Class and Nut Markings	5		10		10		10		12	
										

Size	Class 4.8				Class 8.8 or 9.8				Class 10.9				Class 12.9			
	Lubricated ^a		Dry ^a		Lubricated ^a		Dry ^a		Lubricated ^a		Dry ^a		Lubricated ^a		Dry ^a	
	N-m	lb-ft	N-m	lb-ft	N-m	lb-ft	N-m	lb-ft	N-m	lb-ft	N-m	lb-ft	N-m	lb-ft	N-m	lb-ft
M6	4.8	3.5	6	4.5	9	6.5	11	8.5	13	9.5	17	12	15	11.5	19	14.5
M8	12	8.5	15	11	22	16	28	20	32	24	40	30	37	28	47	35
M10	23	17	29	21	43	32	55	40	63	47	80	60	75	55	95	70
M12	40	29	50	37	75	55	95	70	110	80	140	105	130	95	165	120
M14	63	47	80	60	120	88	150	110	175	130	225	165	205	150	260	190
M16	100	73	125	92	190	140	240	175	275	200	350	255	320	240	400	300
M18	135	100	175	125	260	195	330	250	375	275	475	350	440	325	560	410
M20	190	140	240	180	375	275	475	350	530	400	675	500	625	460	800	580
M22	260	190	330	250	510	375	650	475	725	540	925	675	850	625	1075	800
M24	330	250	425	310	650	475	825	600	925	675	1150	850	1075	800	1350	1000
M27	490	360	625	450	950	700	1200	875	1350	1000	1700	1250	1600	1150	2000	1500
M30	675	490	850	625	1300	950	1650	1200	1850	1350	2300	1700	2150	1600	2700	2000
M33	900	675	1150	850	1750	1300	2200	1650	2500	1850	3150	2350	2900	2150	3700	2750
M36	1150	850	1450	1075	2250	1650	2850	2100	3200	2350	4050	3000	3750	2750	4750	3500

DO NOT use these values if a different torque value or tightening procedure is given for a specific application. Torque values listed are for general use only. Check tightness of fasteners periodically.

Shear bolts are designed to fail under predetermined loads. Always replace shear bolts with identical property class.

Fasteners should be replaced with the same or higher property class. If higher property class fasteners are used, these should only be tightened to the strength of the original.

Make sure fasteners threads are clean and that you properly start thread engagement. This will prevent them from failing when tightening.

Tighten plastic insert or crimped steel-type lock nuts to approximately 50 percent of the dry torque shown in the chart, applied to the nut, not to the bolt head. Tighten toothed or serrated-type lock nuts to the full torque value.

a "Lubricated" means coated with a lubricant such as engine oil, or fasteners with phosphate and oil coatings. "Dry" means plain or zinc plated without any lubrication.

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