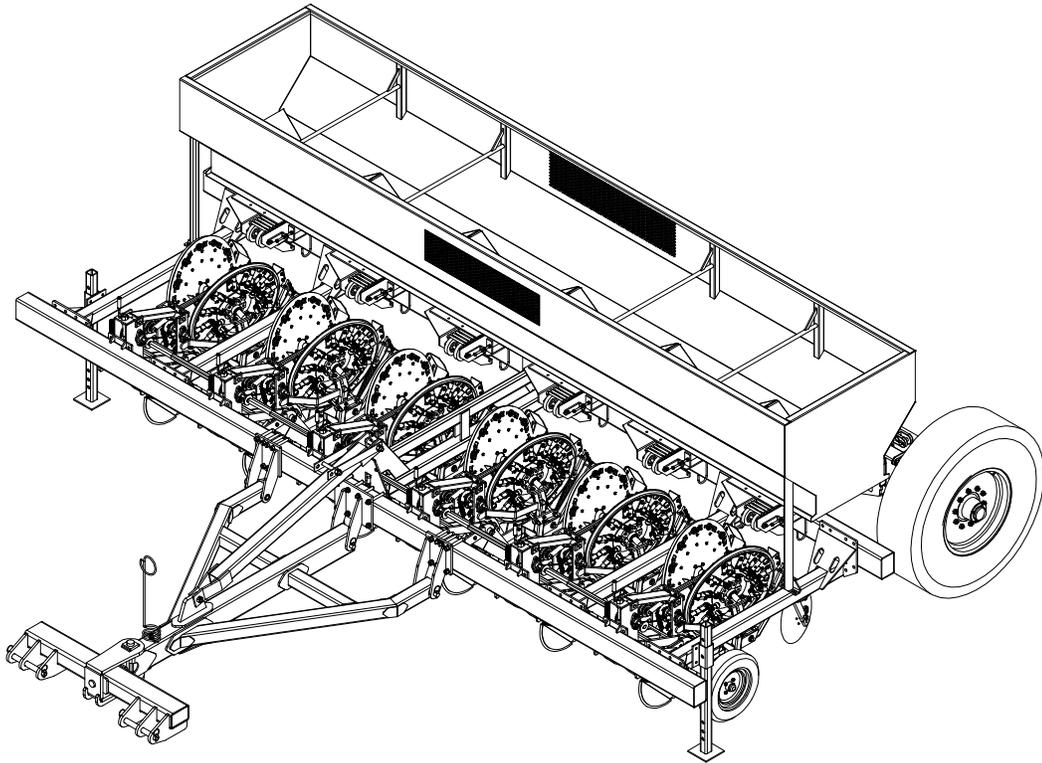
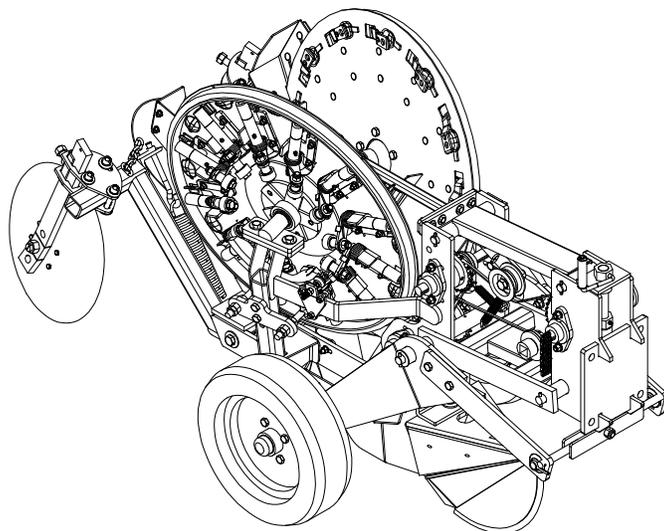


Harriston

INDUSTRIES



Clamp Potato Planter Parts Book 2021



NOTES

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NOTES:

PARTS

This manual contains a parts list for your machine.

WHEN ORDERING PARTS

Always give your dealer the Model and Serial Number of your machine to assist them in ordering and obtaining the correct parts. Use the exploded view and tabular listing of the area of interest to exactly identify the required part.

USING THE MANUAL

Parts data consists of exploded view illustrations and associated parts list tables, which are read as follows:

- **REFERENCE NUMBER**

The Reference Number is the identifier number from the illustration. For example, Number 3 on an illustration points to a component which is item 3 on the accompanying table. The abbreviation NS means the item is not shown in the illustration.

- **PART NUMBER**

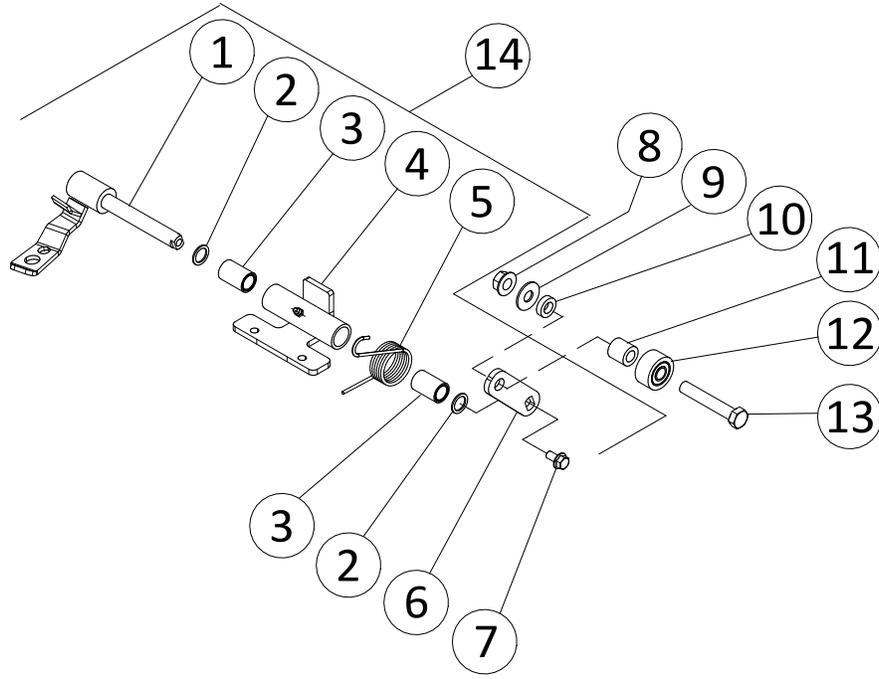
The Part Number is the number by which the component may be identified and ordered from Harriston Industries and its network of dealers

- **DESCRIPTION**

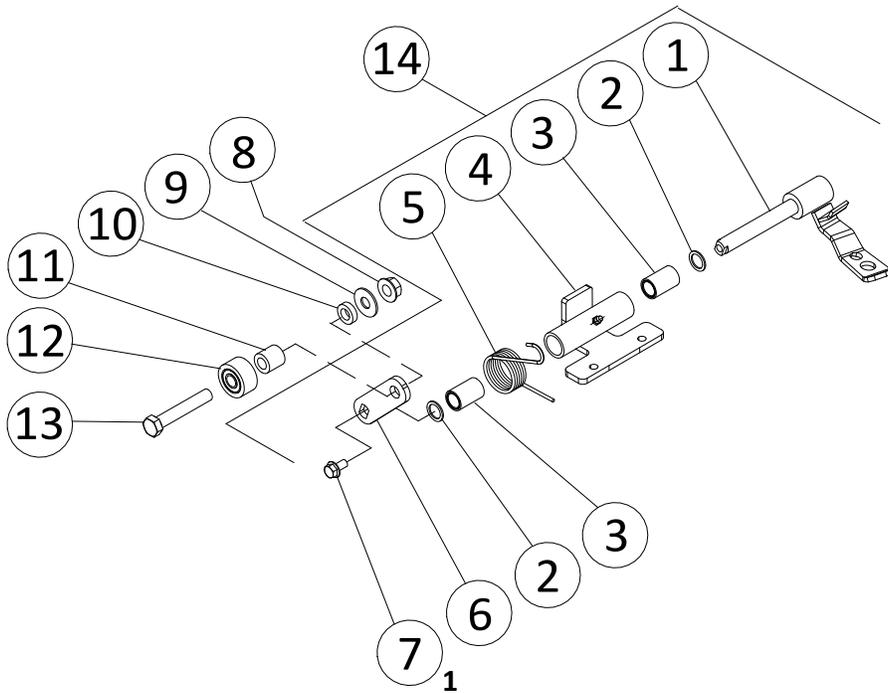
This column contains the name and description of the part.

Clamp Arm Assembly

#390295 – Left Clamp Arm Assembly



#390296 – Right Clamp Arm Assembly



#390295 – Left Clamp Arm Assembly

Ref.	Part No.	Description
1	390297	Clamp Arm- Left
2	96151	Seal – Clamp Arm
3	380100	Brass Sleeve w/ Iglide Bushing
4	390075	Clamp Assembly Base (No Bushings)
5	96496	Torsion Spring - Left
6	390052	Trip Arm – Clamp
7	20010	Bolt, Serrated Flange 5/16 x 5/8"
8	20505	Flange Nut, ½

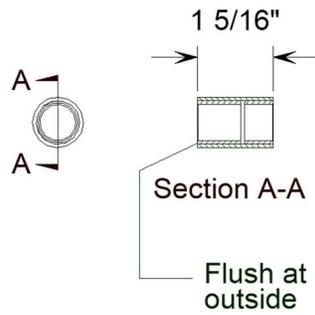
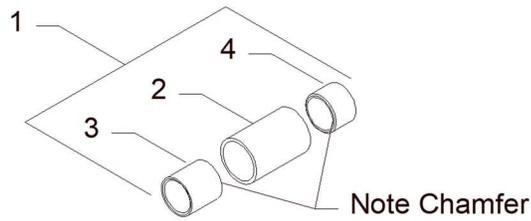
Ref.	Part No.	Description
9	20514	Washer, 7/16"
10	390192	Spacer- Spring Mount
11	390191	Spacer- Bearing
12	95452	Double Bearing - Poly
13	20056	Bolt, ½ x 3"
14	390295	Clamp Assembly, Left
N/S	390154	Clamp Assembly Base (With Bushings)

#390296 – Right Clamp Arm Assembly

Ref.	Part No.	Description
1	390298	Clamp Arm- Right
2	96151	Seal – Clamp Arm
3	380100	Brass Sleeve w/ Iglide Bushing
4	390075	Clamp Assembly Base (No Bushings)
5	96495	Torsion Spring - Right
6	390052	Trip Arm – Clamp
7	20010	Bolt, Serrated Flange 5/16 x 5/8"
8	20505	Flange Nut, ½

Ref.	Part No.	Description
9	20514	Washer, 7/16"
10	390192	Spacer- Spring Mount
11	390191	Spacer- Bearing
12	95452	Double Bearing - Poly
13	20056	Bolt, ½ x 3"
14	390296	Clamp Assembly, Right
N/S	390154	Clamp Assembly Base (With Bushings)

**Clamp Arm Bushing
#380100**

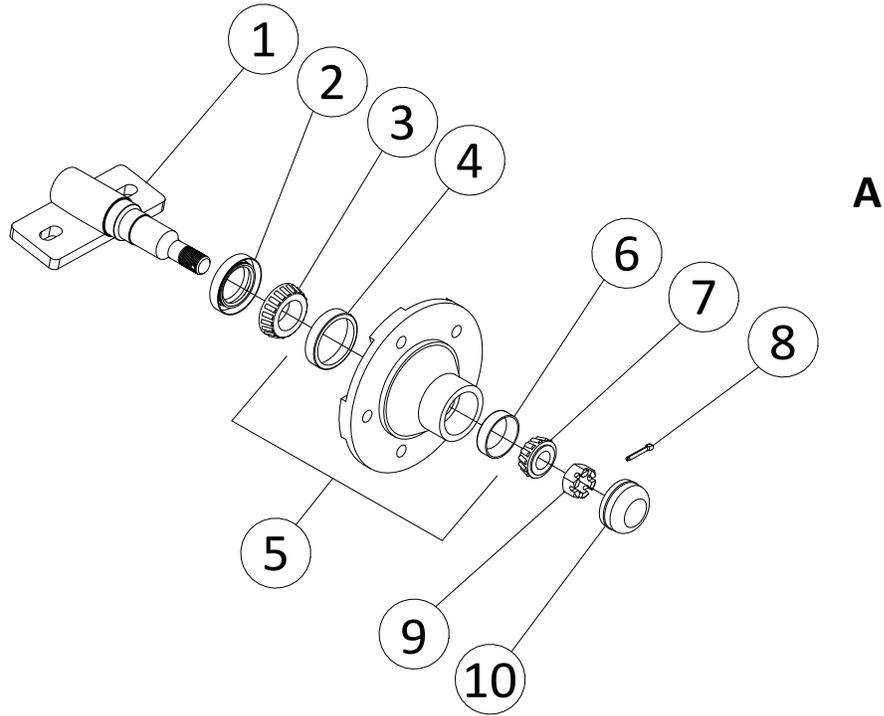


#380100 – Clamp Arm Bushing

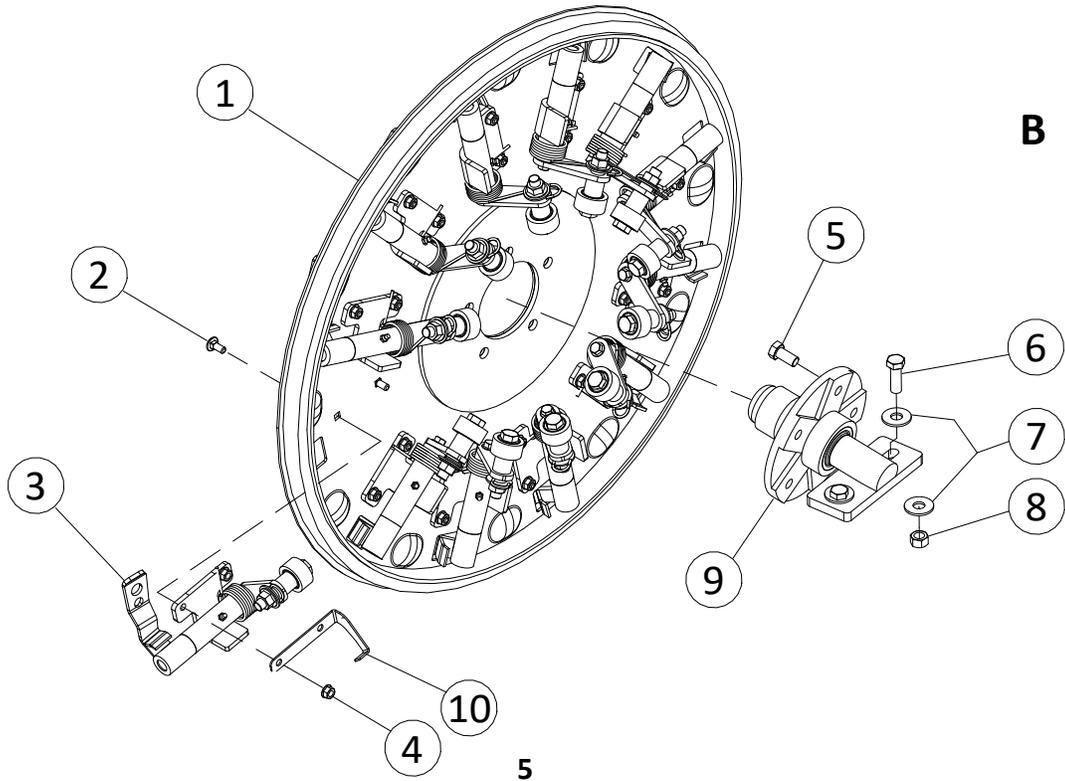
Ref.	Part No.	Description
1	380100	Brass Sleeve w/ Iglide Bushing
2	96241	Brass Sleeve
3	96240	Iglide Bushing - Long
4	96242	Iglide Bushing - Short

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**Wheel Spindle & Hub Assembly
#390178**



**Clamp Wheel Assembly
#390040 – Left / #390047 – Right (Shown below)**



#390178 – Wheel Spindle & Hub Assembly

Ref.	Part No.	Description
1	390176	Spindle Mount Weldment
2	95025	SE - 11 Seal
3	95020	Tapered Bearing LM 67048
4	95069	Bearing Cup LM 67010
5	90012	HA 511 Hub with Cup

Ref.	Part No.	Description
6	95070	Bearing Cup LM 11910
7	95019	Tapered Bearing LM 11949
8	20827	5/32" X 1" Cotter Pin
9	20490	Castle Nut, 3/4 NF
10	90013	Dust Cap, DC-12

A

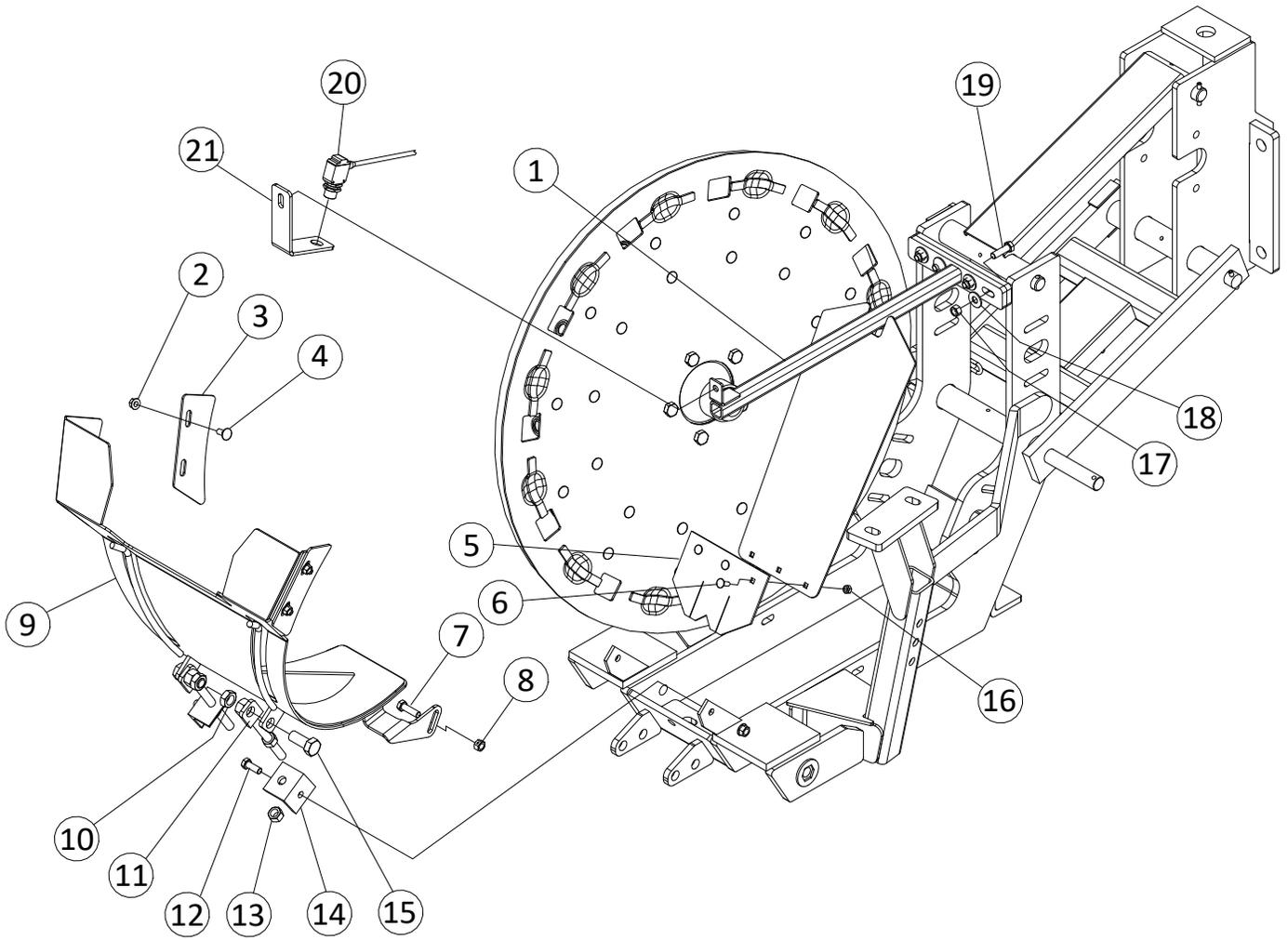
Clamp Wheel Assembly #390040 – Left / #390047 – Right (Shown in Fig. B)

Ref.	Part No.	Description
1	390296	Clamp Wheel Right
NS	390295	Clamp Wheel Left
2	20757	Carriage Bolt, 5/16" x 1"
3	390296	Clamp Arm Assembly – Right (Shown)
NS	390295	Clamp Arm Assembly – Left
4	20479	Flange Nut, 5/16"
5	20051	Bolt, 1/2" x 1"

Ref.	Part No.	Description
6	20052	Bolt, 1/2" x 1-1/2"
7	20515	Washer, 1/2"
8	20404	Nut, 1/2"
9	390178	Wheel Hub Assembly
10	390284	Trip Arm Stop RH
NS	390285	Trip Arm Stop LH

B

Seed Bowl Assembly

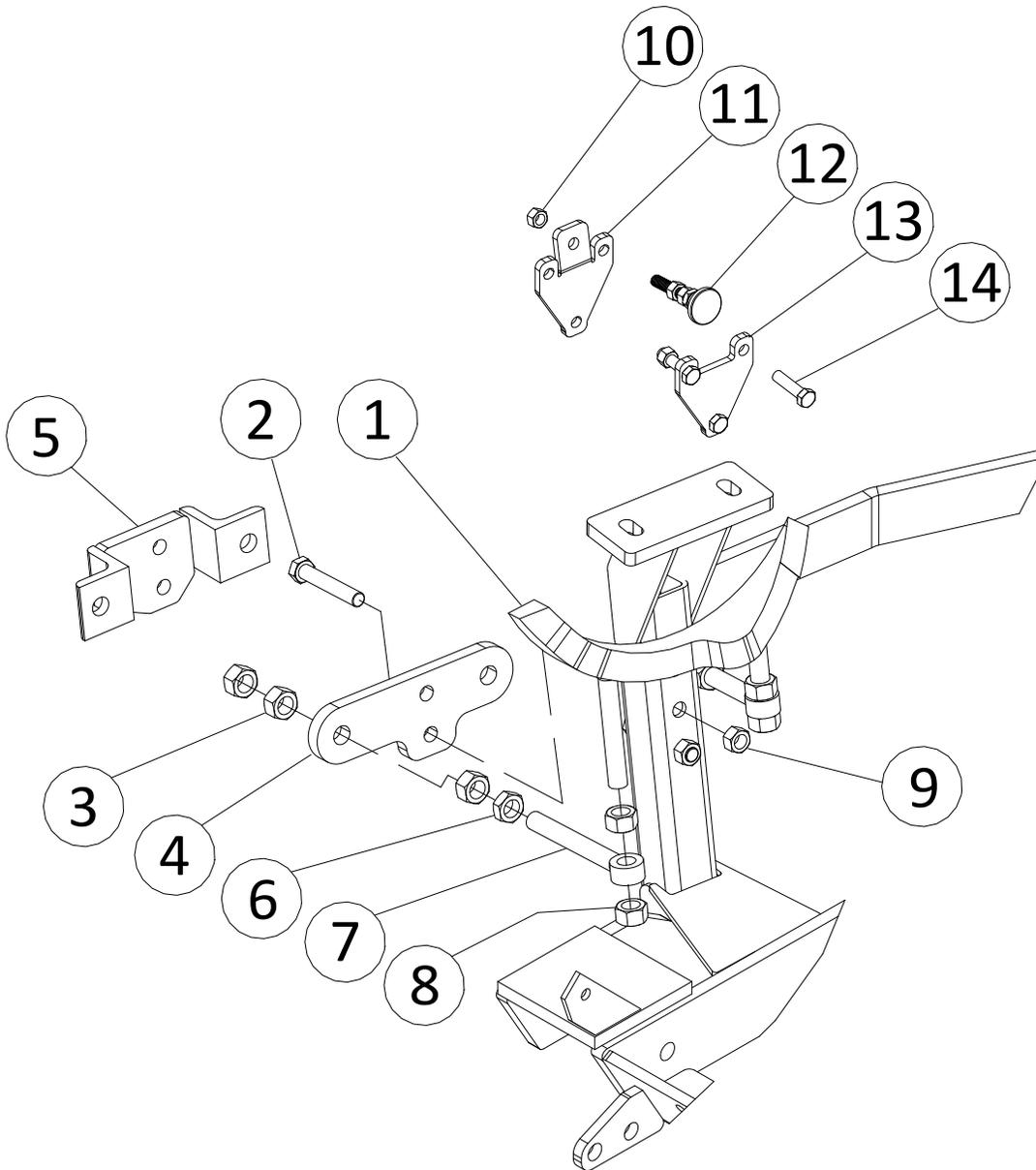


Seed Bowl Assembly

Ref.	Part No.	Description
1	390090	Seed Bowl Stop Weldment
2	20479	Nut, 5/16" Flange
3	390143	Plastic Bowl Filler
4	20761	Carriage Bolt, 5/16" x 3/4"
5	390098	Rubber Seed Flap
6	20771	Carriage Bolt, 1/4" x 3/4"
7	20120	Bolt, 3/8 x 1-1/4"
8	20423	Centerlock Nut, 3/8"
9	390080	Seed Bowl Weldment
10	20449	Jam Nut, 5/8"
11	458175	Rear Bowl Adjuster

Ref.	Part No.	Description
12	20029	Bolt, 3/8 x 1"
13	20404	Nut, 1/2"
14	390077	Angle, Rear Seed Bowl Mount
15	20064	Bolt, 5/8" x 1-1/2"
16	20400	Nut, 1/4"
17	20402	Nut, 3/8"
18	20513	Washer, 3/8"
19	20120	Bolt, 3/8" x 1-1/4"
20	96299	Sensor, Bowl Level Control
21	390099	Mount, Bowl Level Sensor

Adjustment Cam Assembly



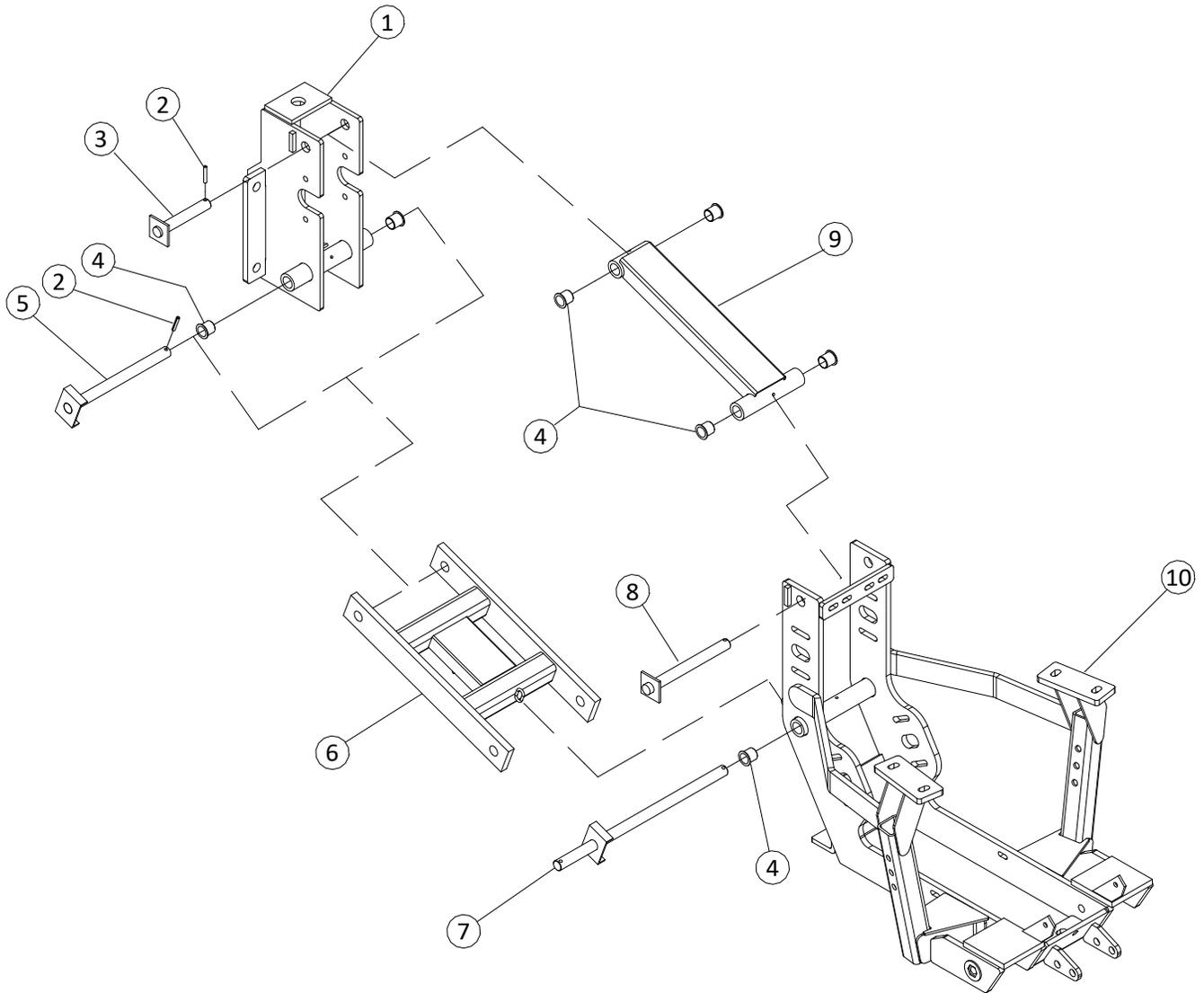
Adjustment Cam Assembly

Ref.	Part No.	Description
1	390007	Cam Weldment (Left—Shown)
NS	390008	Cam Weldment (Right—Not Shown)
2	20056	Bolt, ½" x 3"
3	20406	Nut, 5/8"
4	390032	Cam Mount
5	390156	Offset Cam Mount (Optional) RH
-	390155	Offset Cam Mount (Optional) LH
6	20449	Jam Nut, 5/8"

Ref.	Part No.	Description
8	95468	Cam Adjuster
9	20404	Nut, ½"
10	20402	Nut, 3/8"
11	390117	Mount, Cam Support
12	96520	Cam Support
13	390271	Backing Plate, Cam Support
14	20030	Bolt, 3/8" x 1-1/2"

****Note Cams are factory set to open arms to 2-¼" at seed pickup and 2-¾" at seed drop****
Drop opening should always be ½" more than seed pickup opening to ensure proper operation
Always rotate the wheels manually after adjusting to ensure proper clamp assembly operation.
Improper settings may cause damage to the unit.

Linkage Assembly

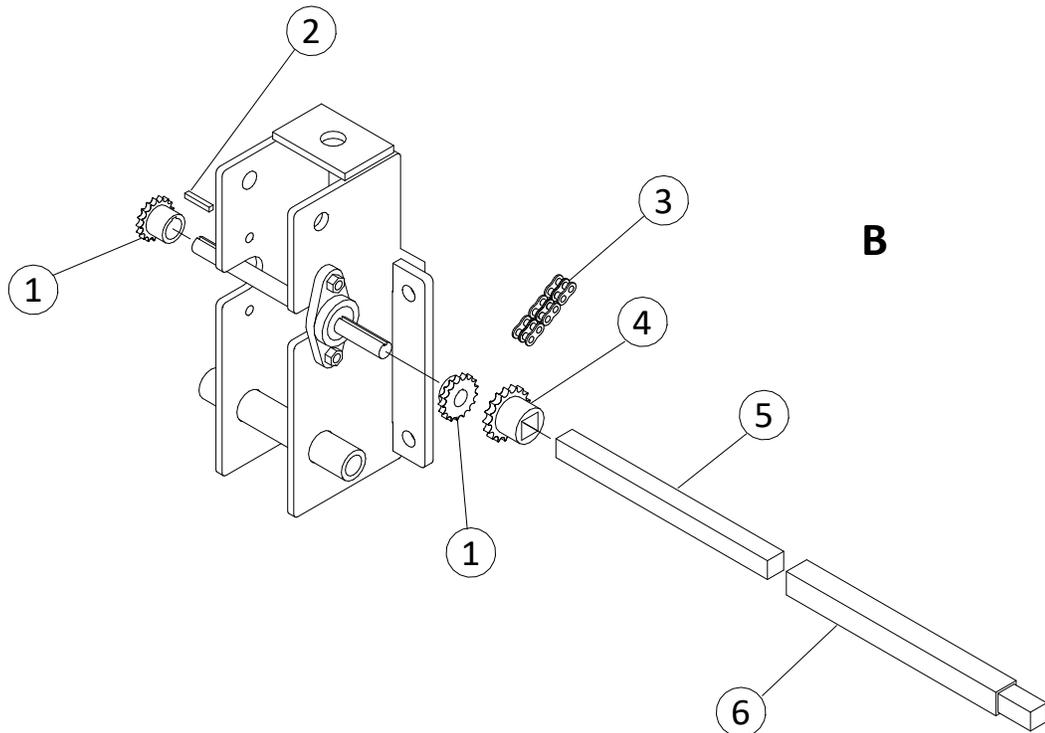
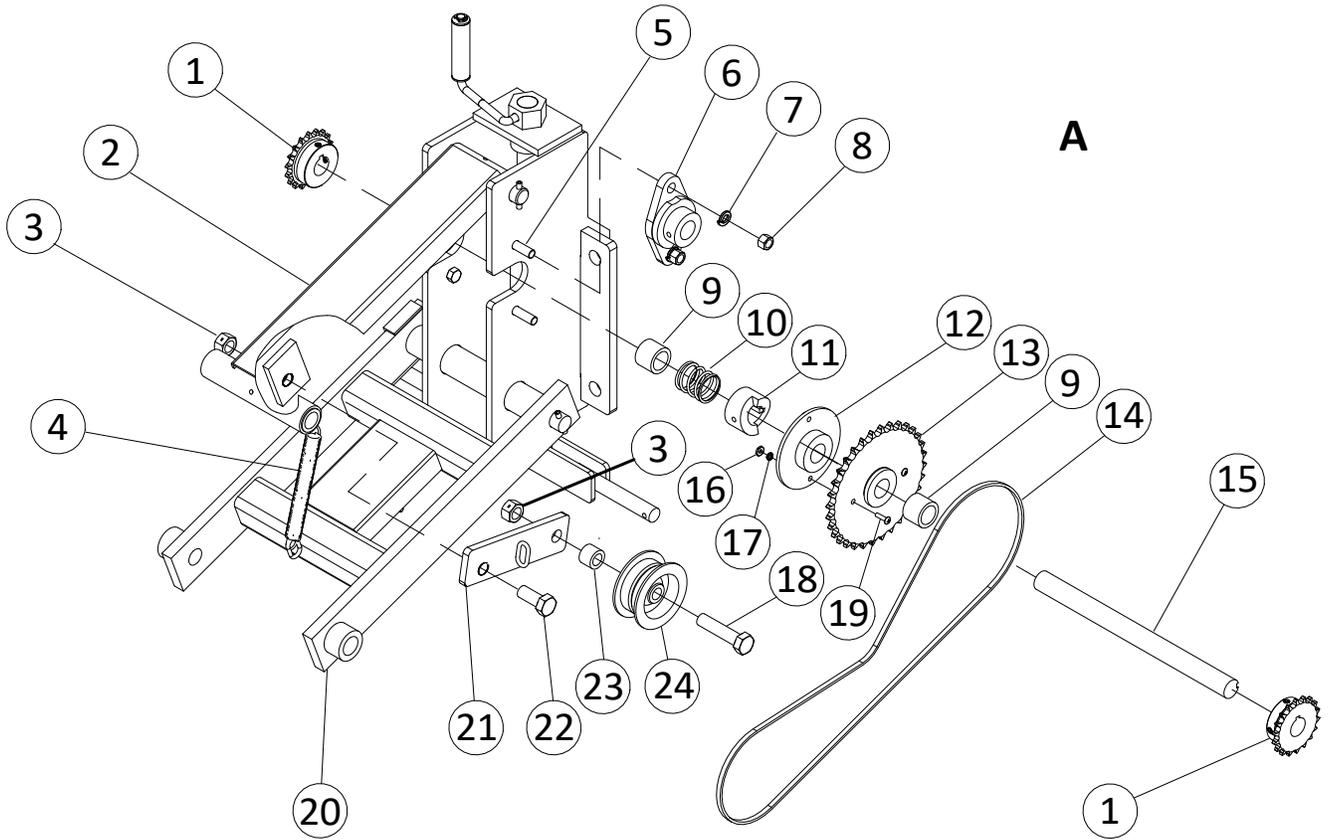


Linkage Assembly

Ref.	Part No.	Description
1	352950	Front Linkage Weldment
2	20965	Roll Pin, ¼" x 1-½"
3	352955	Top Front Pin
4	90155	Plastic Bushing, 1" x 7/8"
5	200230	Lower Linkage Pin

Ref.	Part No.	Description
6	352960	Lower Linkage Weldment
7	390018	Lower Linkage Pin
8	352975	Top Rear Pin Weldment
9	352965	Top Linkage Weldment
10	390180	Row Unit Frame

Row Unit Drive Assembly



Row Unit Drive Assembly

Ref.	Part No.	Description
1	96042	Sprocket, 4018 x 1
2	352965*	Top Linkage Weldment
3	20427	Centerlock Nut, 5/8"
4	96007	Spring, Chain Tensioner
5	20041	Bolt, 7/16" x 1-1/2"
6	96049	Flange Bearing, 1"
7	20503	Lock Washer, 7/16"
8	20403	Nut, 7/16"
9	352957	Spacer, Clutch Spacer
10	96008	Spring, Overriding
11	351070	Sliding Hub
12	351061	Sliding Hub w/ Sprocket Mount

*Does not include bushing inserts

Ref.	Part No.	Description
13	351062	Sprocket, 5032 Drilled
14	390129	Chain, Drive
15	351080	Drive Shaft, Row Unit
16	20280	Nut, #10-24
17	20545	Lock Washer, #10
18	20124	Bolt, 5/8" x 2-3/4"
19	20168	Machine Screw, #10 x 3/4"
20	352960*	Lower Linkage Weldment
21	352990	Idler Arm Weldment
22	20124	Bolt, 5/8" x 2-3/4"
23	351087	Spacer, Idler
24	96106	Chain Idler

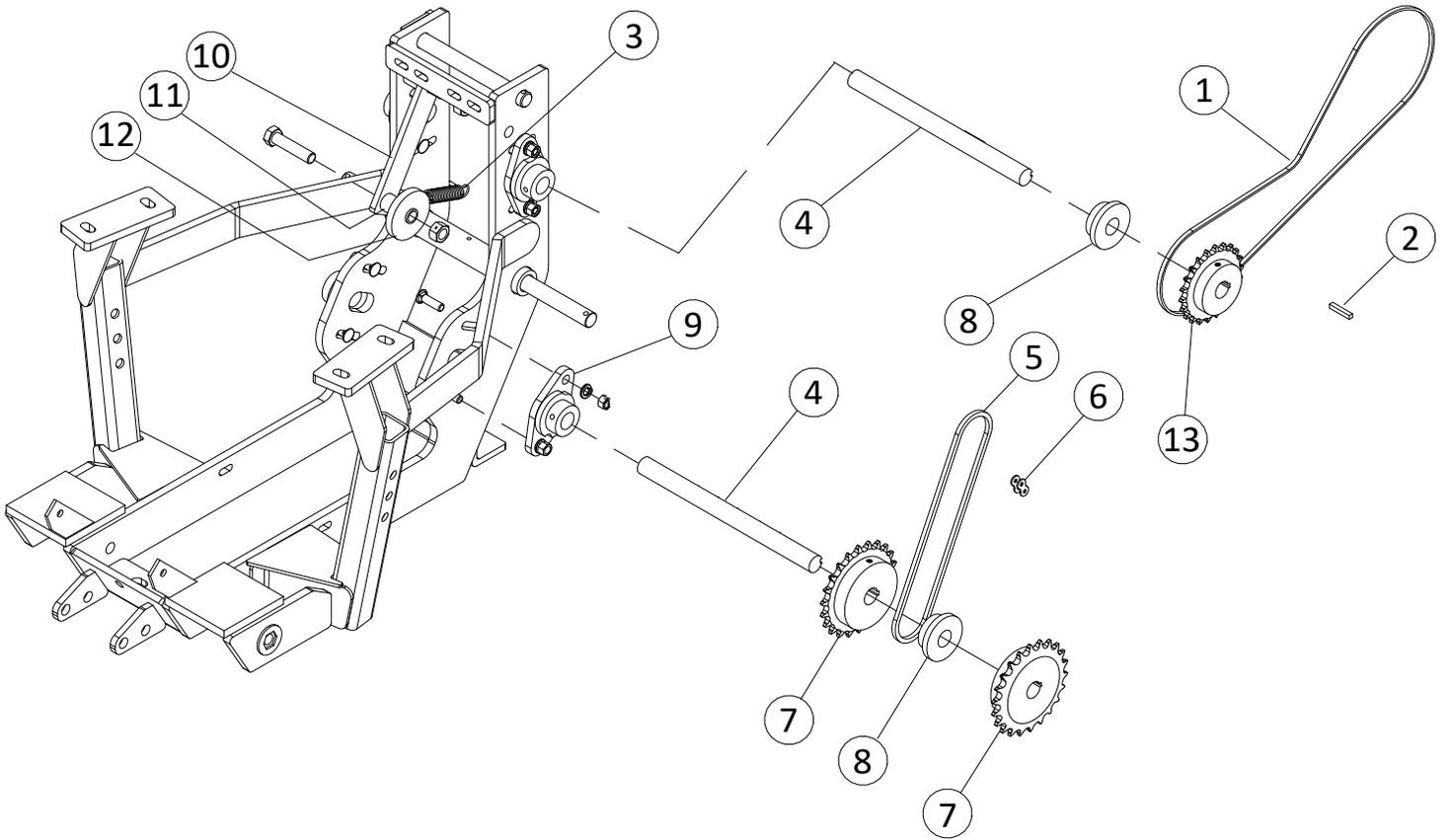
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B

Ref.	Part No.	Description
1	96042	Sprocket, 4018 x 1"
2	351072	Key, 1/4" x 1-1/2"
3	354555	Chain, #40 Double w/ Conn. Link

Ref.	Part No.	Description
4	354550	Sprocket, Coupler Drive
5	354525	Drive Shaft, Long
6	354520	Drive Tube, Long

Row Unit Lower Drive Assembly

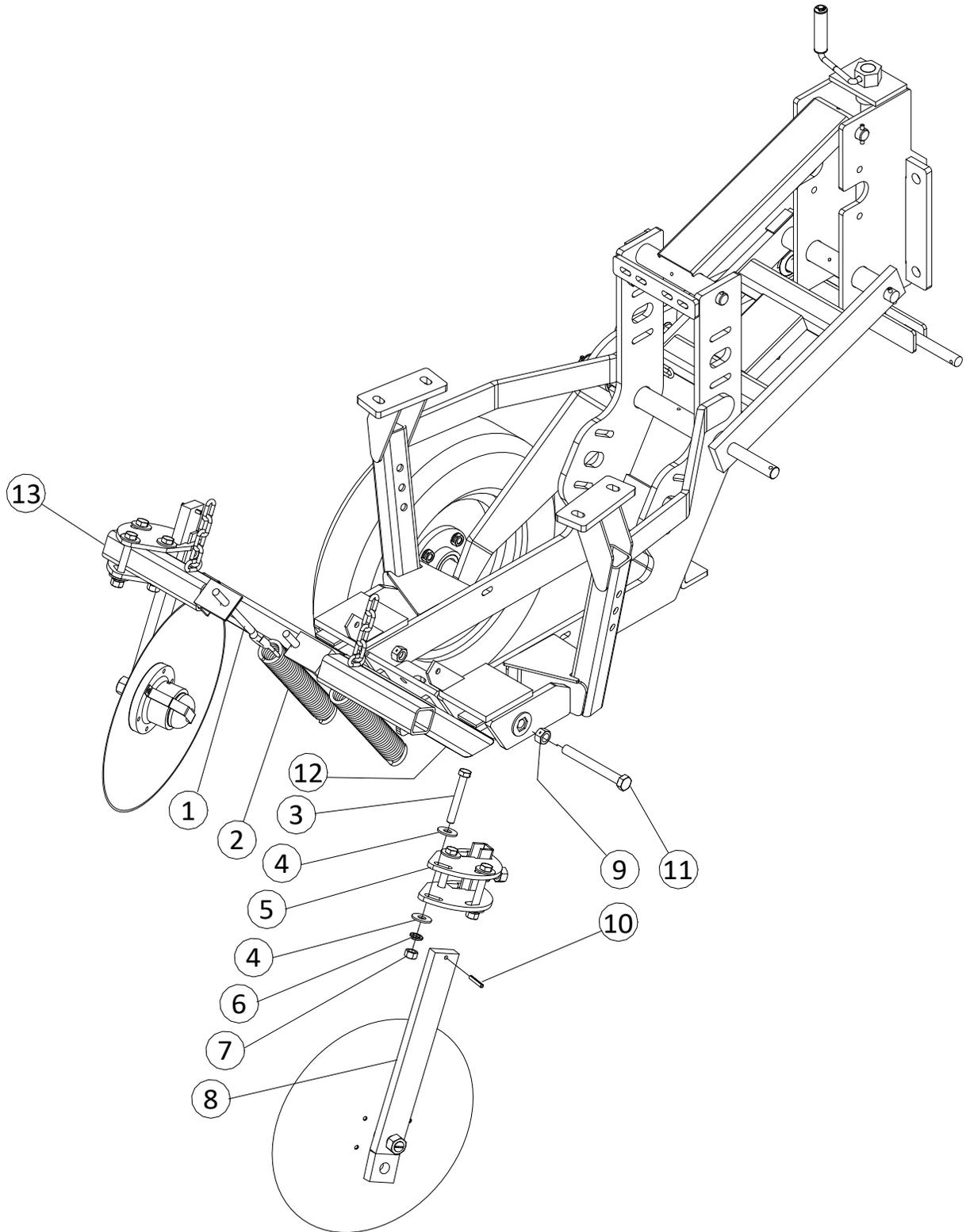


Row Unit Lower Drive Assembly

Ref.	Part No.	Description
1	390129	#50 Roller Chain, 40 Links
2	351072	Key Stock, 1/4" x 1-1/2"
3	96246	Extension Spring, 3-3/8"
4	351080	Unit Drive Shaft
5	390016	Chain - Clamp Wheel Drive
6	95030	Chain Connector Link, #50
7	390128	Sprocket -Wheel Drive

Ref.	Part No.	Description
8	81148	5012 x 1 Fin Bore Sprocket
9	96049	Flange Bearing Assembly w/ Collar
10	390017	Flat - Tensioner Arm
11	390013	Spacer - Idler Tensioner Arm
12	81219	5013E Idler Sprocket 5/8"
13	81166	5022 x 1" Fin Bore Sprocket

Closing Disc Clamp Assembly

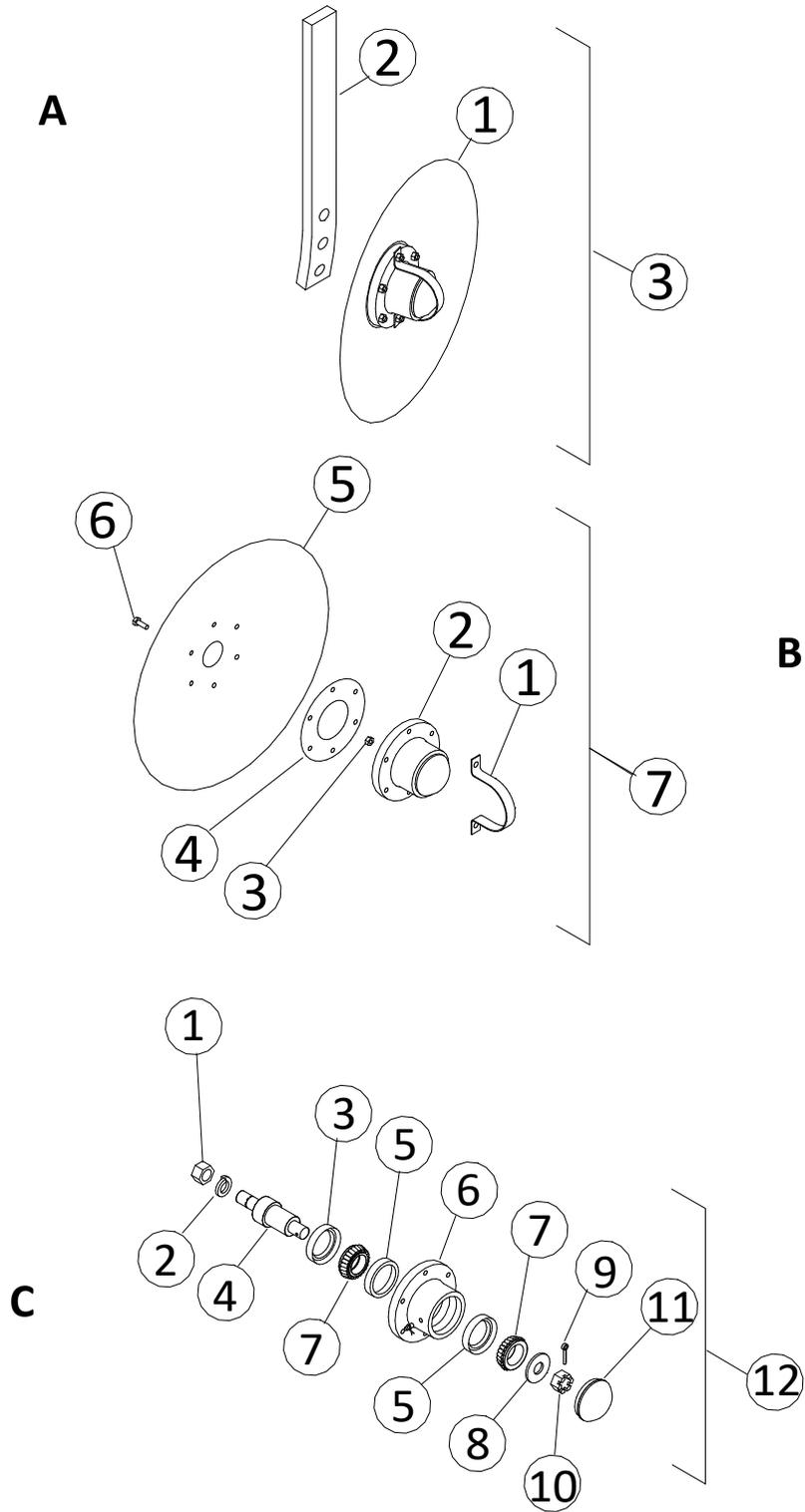


Closing Disc Clamp Assembly

Ref.	Part No.	Description
1	300701	Eyebolt, ½ x 8"
2	300600	Spring, Closing Disc
3	20057	Bolt, ½" x 3-½"
4	20515	Washer, ½"
5	211930	Clamp, Disc
-	401135	Clamp, Heavy Disc
6	20504	Lock Washer, ½"
7	20404	Nut, ½"
8	211840	Disc with Shank Standard (Single) 16"
-	401127	Heavy Disc Package (Pair) 18"

Ref.	Part No.	Description
-	401128	Heavy Notched Disc Package (Pair)
10	20965	Pin, Spring Lock ¼" x 1-½"
11	20072	Bolt, 5/8" x 5-½"
12	351690	Closing Disc Arm Assembly, Right
-	351650	Closing Disc Arm Weldment, Right
NS	90154	Bushing, Closing Disc Pivot
13	351680	Closing Disc Arm Assembly, Left
-	351600	Closing Disc Arm Weldment, Left
NS	90154	Bushing, Closing Disc Pivot

Closing Disc Assembly



Closing Disc Assembly

Ref.	Part No.	Description
1	211845	Disc w/ Hub (Double Bearing)
2	211660	Hiller Shank Painted
3	211840	Disc Assembly with Shank (Double Bearing)

A

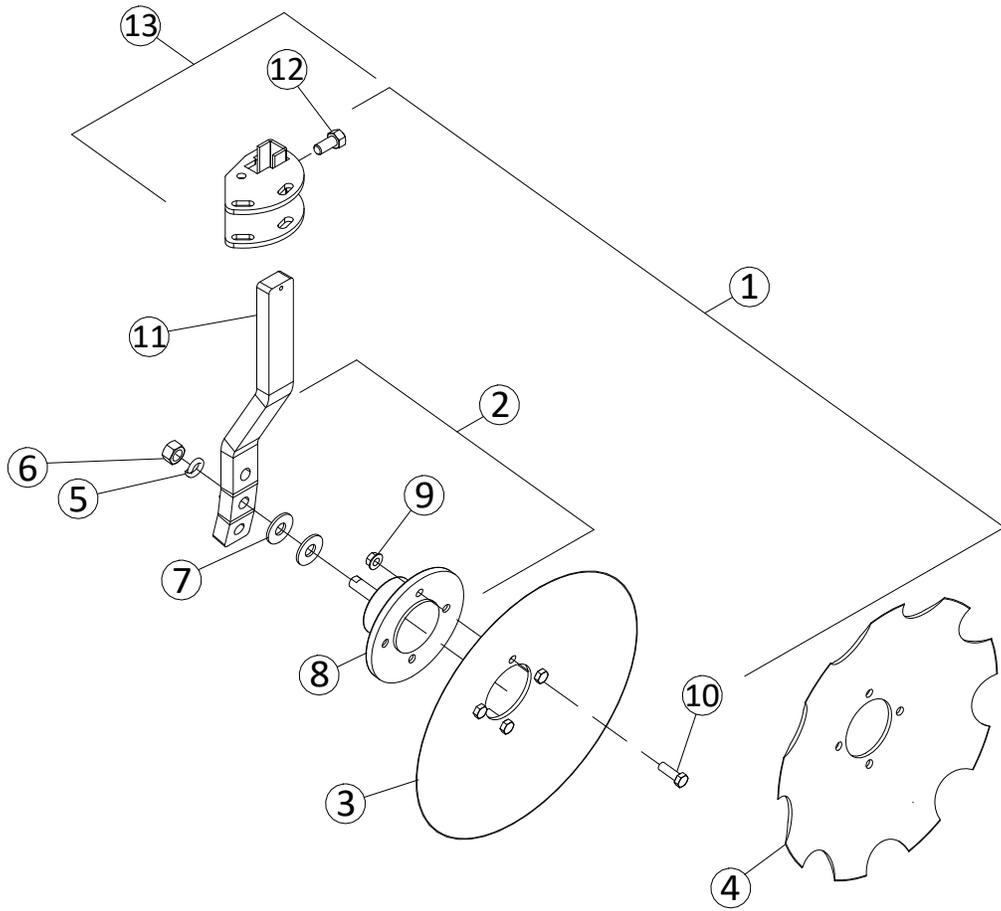
Ref.	Part No.	Description
1	211876	Double Bearing Dust Cap Strap
2	90210	Hiller Hub with Race
3	20421	Centerlock Nut, 1/4"
4	95045	Flange Gasket
5	90024	Disc, 16" Concave (Hillers)
6	20003	Bolt, 1/4" X 1-1/4"
7	211845	Disc with Hub (Double Bearing)

B

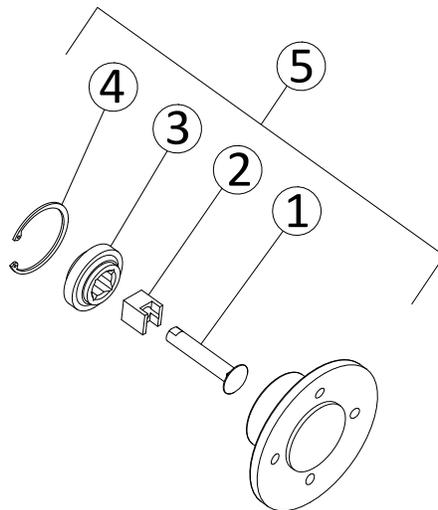
Ref.	Part No.	Description
1	20415	Nut, 3/4" NF
2	20507	Lock Washer, 3/4"
3	95115	Double Lip Seal
4	95020	Hiller Disc Spindle
5	95069	Bearing Cup LM 67010
6	90210	Hiller Hub with Race
7	95036	Tapered Bearing LM 67048 Cone
8	20517	Washer, 3/4"
9	20827	Cotter Pin , 5/32" X 1"
10	20490	Castle Nut, 3/4" NF
11	90015	Dust Cap (DC-13)
12	211870	Hiller Hub Assembly (Double Bearing)

C

Heavy Closing Disc Assembly



Heavy Closing Disc Hub Assembly



Heavy Closing Disc
#401127 – Heavy Closing Disc Assembly
#401128 – Heavy Notched Closing Disc Assembly

Ref.	Part No.	Description
1	401127	Heavy Closing Disc Package (Pair)
-	401128	Heavy Closing Disc Notched Package (Pair)
2	401126	Heavy Hub Assembly w/ 1" Shank
3	96410	18" Heavy Hiller Disc 4 Hole
4	96415	18" Heavy Hiller Disc Notched 4 Hole
5	20407	Nut, 3/4"
6	20507	Lock Washer, 3/4"

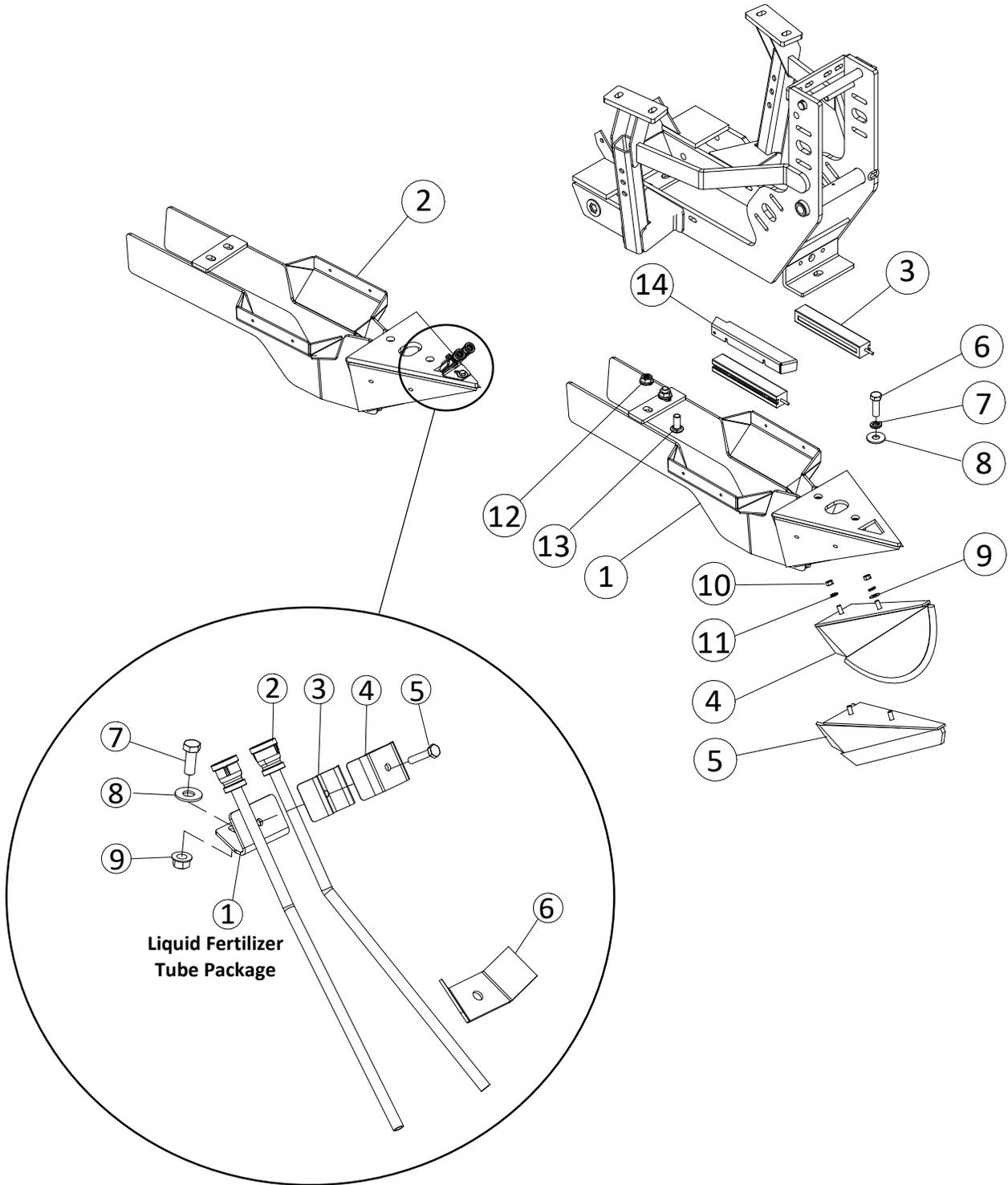
Ref.	Part No.	Description
7	20517	Washer, 3/4"
8	96411	Heavy Hub Assembly
9	20505	Flange Nut, 1/2"
10	20052	Bolt, 1/2" x 1-1/2"
11	401107	Hiller Shank - 1"
12	101602	Set Screw, 5/8" x 2"
13	401135	1" Hiller Shank Mount w/ Set Screw

Heavy Closing Disc Hub
#96411

Ref.	Part No.	Description
1	401121	Carriage Bolt w/ Flats
-	96417	Carriage Bolt w/ Flats
2	401129	Carriage Bolt Square Bore Adapter

Ref.	Part No.	Description
3	96146	Heavy Hub Bearing
4	96418	Retaining Ring
5	96411	Heavy Closing Disc Hub (Complete)

Row Unit Upper / Lower Shoe Assembly



Row Unit Upper / Lower Shoe Assembly

Ref.	Part No.	Description
1	390170	Upper Shoe Weldment
2	390172	Upper Shoe w/ Liquid Package
3	390193	Sensor, Light Curtain Seed (Set)
NS	95446	Wire Harness, Seed Sensor
4	351900	Lower Shoe, Standard
NS	351920	Lower Shoe, Standard (Chrome)
5	357725	Lower Shoe, Angled
NS	357775	Lower Shoe, Angled (Chrome)
6	20065	Bolt, 5/8" x 2"
7	20506	Lock Washer, 5/8"

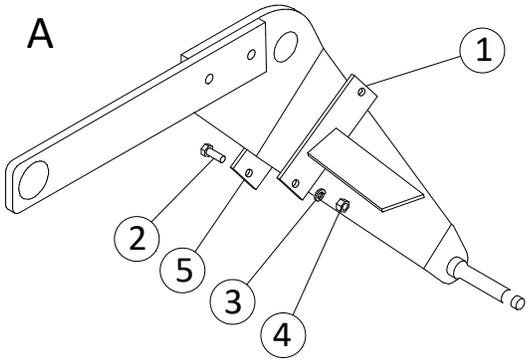
Ref.	Part No.	Description
8	20536	Washer, 5/8"
9	20513	Washer, 3/8"
10	20402	Nut, 3/8"
11	20502	Lock Washer, 3/8"
12	20476	Flange Nut, 5/8"
13	20758	Carriage Bolt, 5/8" x 1-1/2"
14	390252	Shield, Curtain Sensor RH
-	390253	Shield, Curtain Sensor LH
NS	20919	Lock Washer, 5mm Toothed
NS	20920	Bolt, M5 x 12mm

Liquid Fertilizer Tube Package (Bolt-on) #400895

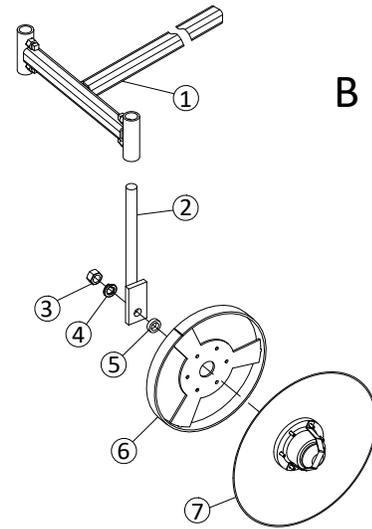
Ref.	Part No.	Description
1	400897	Tube Mount
2	400894	Fertilizer Tube w / Fitting, 3/8" IPS
3	400899	Rubber Tube Strap
4	400896	Tube Strap Weldment
5	20003	Bolt, 1/4" x 1-1/4"

Ref.	Part No.	Description
NS	20475	Flange Nut, 1/4"
6	400898	Lower Tube Strap
7	20029	Bolt, 3/8" x 1"
8	20513	Washer, 3/8"
9	20471	Nut, 3/8"

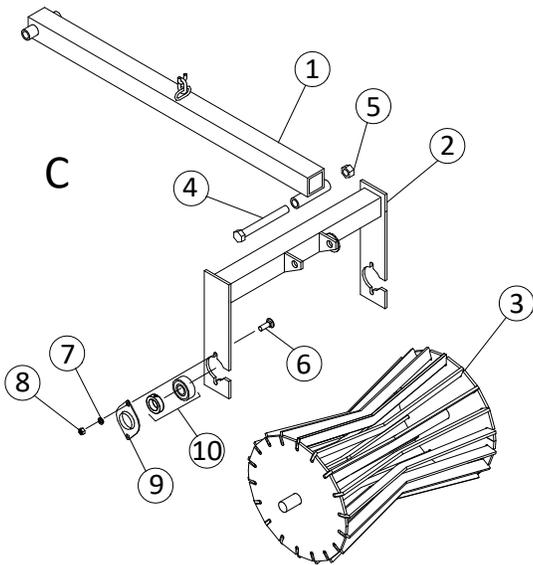
Tire Scraper Package



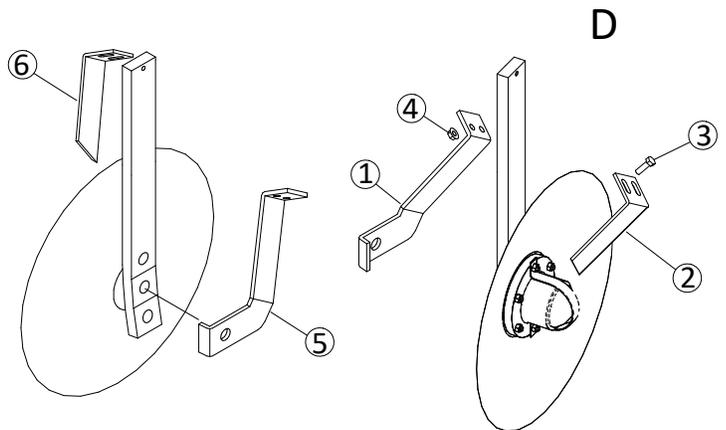
Dual Disc Package



Packer Wheel Assembly



Disc Scraper Package



#351365 – Tire Scraper Package

Ref.	Part No.	Description
1	351370	Tire Scraper Weldment Left
-	351375	Tire Scraper Weldment Right
2	20119	Bolt, 3/8" X 1-3/4"

Ref.	Part No.	Description
3	20502	Lock Washer, 3/8"
4	20402	Nut, 3/8"
5	351373	Tire Scraper Mount Plate

A

#368200 – Dual Disc Package (one behind one)

Ref.	Part No.	Description
1	368260	Double Disc Marker Weldment
2	356440	Marker Disc Mount
3	20415	Nut, 3/4" NF
4	20507	Lock Washer, 3/4"

Ref.	Part No.	Description
5	211663	Disc Spacer Bushing
6	211850	Marker Depth Guide Wheel
7	211845*	Disc W/ Hub

*Refer to page 20 for Disc w/ Hub parts breakdown

B

**#3510 – Packer Wheel Assembly
#357100 – Packer Wheel Assembly - (without Mount Arm)**

Ref.	Part No.	Description
1	357200	Packer Mount Arm
2	357120	Packer Wheel Frame
3	357110	Packer Wheel Weldment
4	20072	Bolt, 5/8" X 5 1/2"
5	20427	Nut, 5/8" Center Lock

Ref.	Part No.	Description
6	20757	Bolt, 5/16 X 1" Carriage
7	20504	Washer, 5/16" Lock
8	20401	Nut, 5/16"
9	96096	1" Bearing Flange
10	95043	1" Self Align Bearing Sealed

C

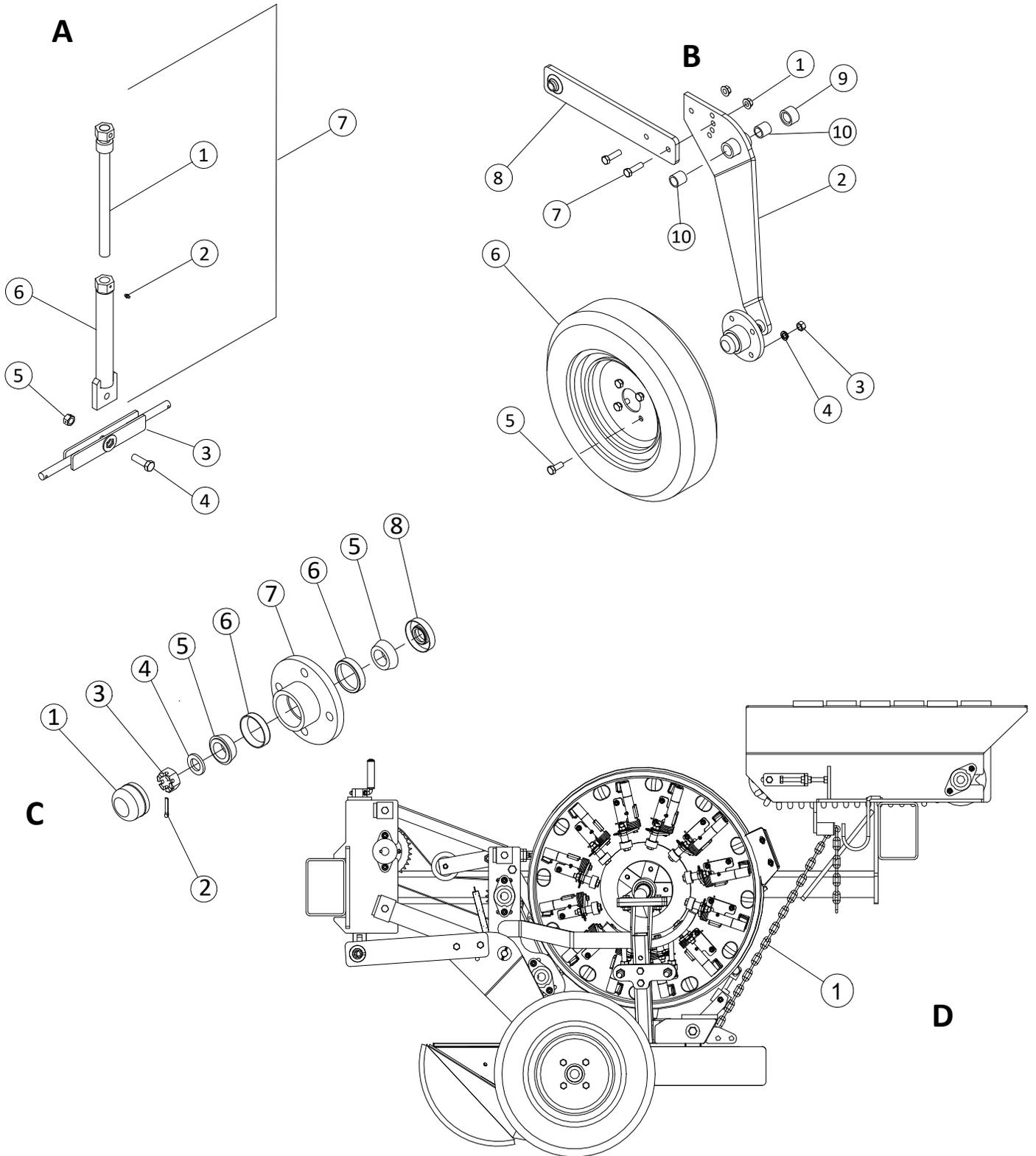
211940 – Disc Scraper Pair – (Discs shown for illustration purposes)

Ref.	Part No.	Description
1	211941	Scraper Mount Right
2	211943	Scraper Right
3	20757	Carriage Bolt, 5/16" X 1"

Ref.	Part No.	Description
4	20479	Flange Nut, 5/16"
5	211942	Scraper Mount Left
6	211944	Scraper Left

D

Row Unit Gauge Wheel Assembly



Row Unit Gauge Wheel Assembly

Ref.	Part No.	Description
1	270295	Adjusting Screw w/ Nut 15"
2	95036	1/4"-28 Straight Zerk
3	351228	Pivot Weldment
4	20065	Bolt 5/8" X 2"

Ref.	Part No.	Description
5	20427	5/8" Self-Lock Nut
6	351225	Upright Tube
7	402520	Adjusting Screw Assembly

A

Ref.	Part No.	Description
1	20505	Flange Nut, 1/2"
2	351990	Adjustable Depth Wheel Left
NS	351995	Adjustable Depth Wheel Right
-	351970	Weldment- Depth Wheel Arm Left
-	351975	Weldment- Depth Wheel Arm Right
3	20405	Nut, 1/2" NF
4	20504	Lock Washer, 1/2"

Ref.	art No.	Description
5	21400	WB 10 Wheel Bolt
6	96227	Tire, Rim Assembly 4.8 x 8
7	20152	Bolt, 1/2" x 1-3/4"
8	351302	Adjustable Depth Wheel Side Flat
9	390141	Spacer, Gauge Wheel
NS	390151	Spacer, Gauge Wheel (34" Rows)
10	94269	Bushing, 7/8" ID x 1-1/8"

B

Ref.	Part No.	Description
1	96204	Dust Cap, DC-11 (1.980)
2	20827	Cotter Pin, 5/32" x 1"
3	20490	Nut, 3/4" NF Slotted Plain
4	21314	Bushing, 0.75" Narrow 10 Ga

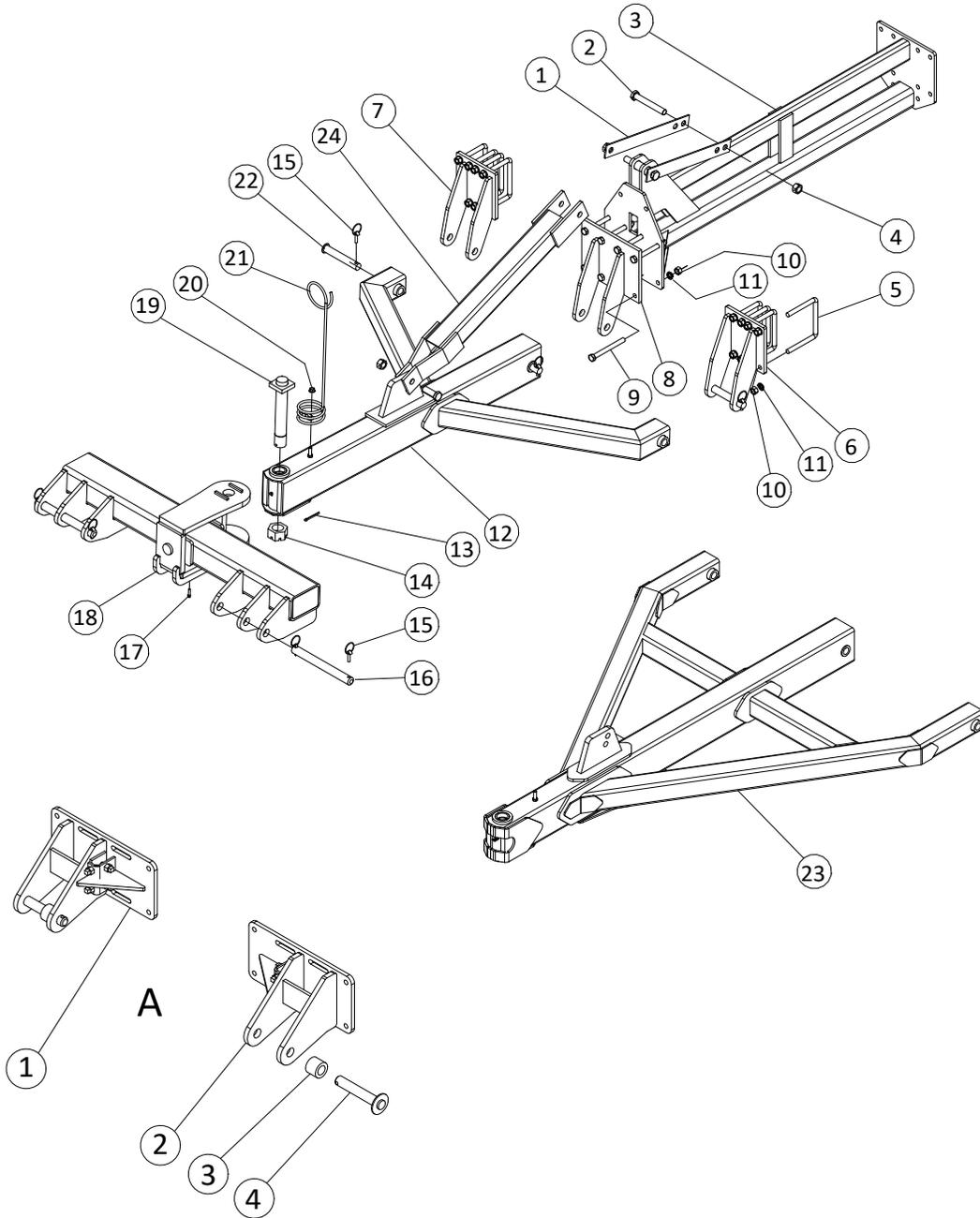
Ref.	Part No.	Description
5	82166	Bearing Cone L44643
6	82165	Bearing Cup LM44610
7	357625	Fertilizer Disc Hub w/ Cup
8	96203	Oil Seal, 471750 (1-1/4 Shaft)

C

Ref.	Part No.	Description
1	355881	Chain, Row Unit Depth

D

Planter Hitches



Pole Hitches
#354186 – 4 Row Pole Hitch
#354188 – 4 Row Long Pole
#354187 – 6 & 8 Row Hitch

Ref.	Part No.	Description
1	353810	Flat, Planter Pole Lock-Up
2	20108	Bolt, 1" x 7"
3	352050	Crossmember, Pick/Clamp
4	20430	Centerlock Nut, 1"
5	21018	U-Bolt, 3/4" x 7" x 6-1/2"
6	354030	Hitch Mount, Left
7	354035	Hitch Mount, Right
8	352070	Hitch Mount, Center
9	20091	Bolt, 3/4" x 7-1/2"
10	20407	Nut, 3/4"
11	20507	Lock Washer, 3/4"
12	400600	Hitch, 4 Row Planter Standard
NS	400628	Hitch, 4 Row Planter Long

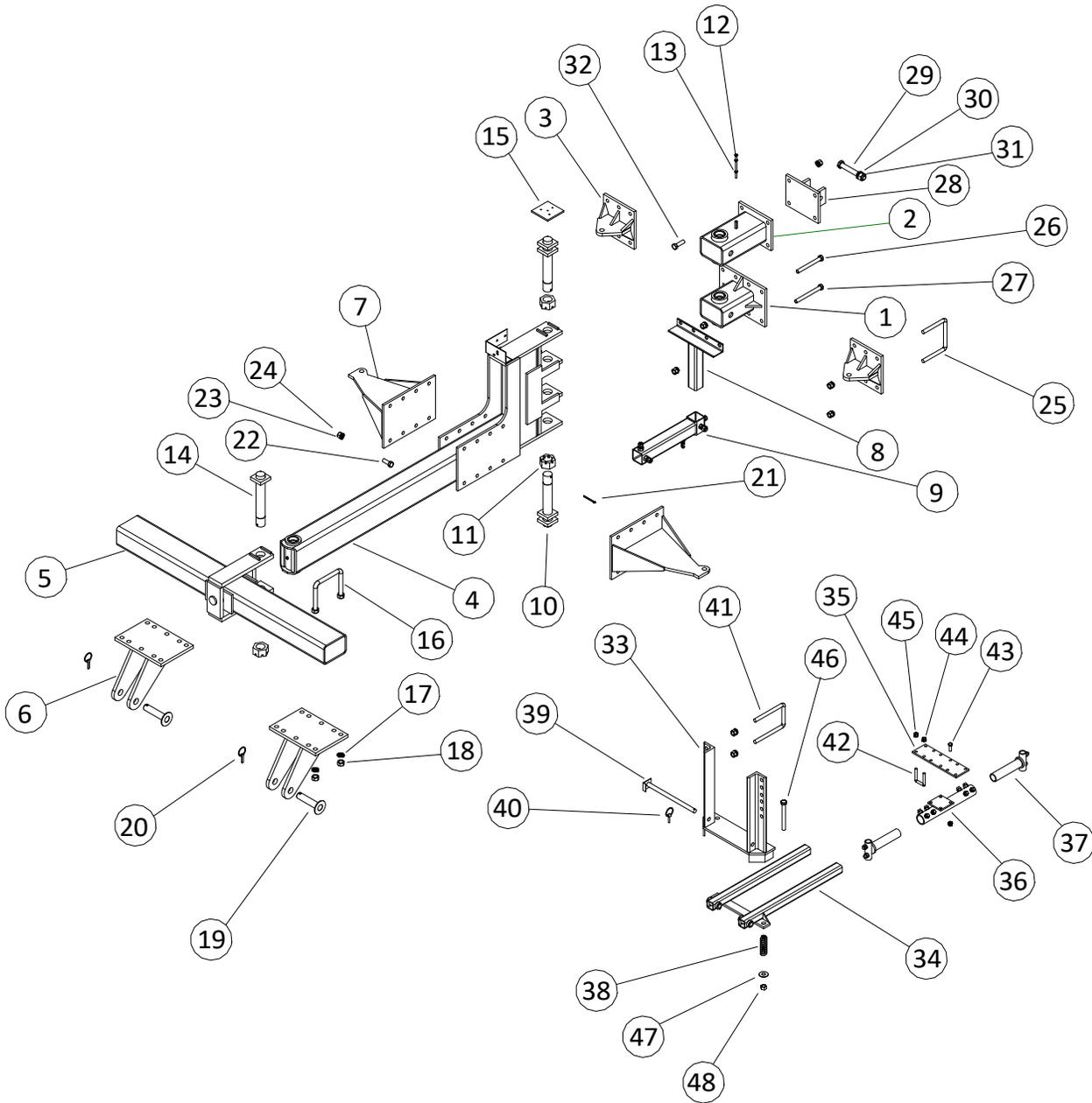
Ref.	Part No.	Description
13	20829	Cotter Pin, 1/4 x 3"
14	354142	Castle Nut, 2" NF
15	95032	Lynch Pin, 7/16"
16	42029-00	Pin, Headless
17	95059	Zerk, Long 1/8" NPT Elbow
18	402458	Swivel Bar, 2 Pt
19	354140	Pin, 2 Pt Vertical
20	20505	Flange Nut, 1/2"
21	355620	Hydraulic Hose Support
22	354085	Pin, 1-1/4" Hitch
23	400575	Hitch, 6-8 Row Planter
24	354210	Hitch Brace, Standard 4 Row
NS	352060	Hitch Brace, 6&8 Row

Semi Mount Hitch

Ref.	Part No.	Description
1	354175	Hitch, Mount Right
2	354170	Hitch, Mount Left
3	354176	Bushing, Semi-Mount Spacer
4	354180	Pin, Semi-Mount

A

**Steerable Hitch Package
#402300**

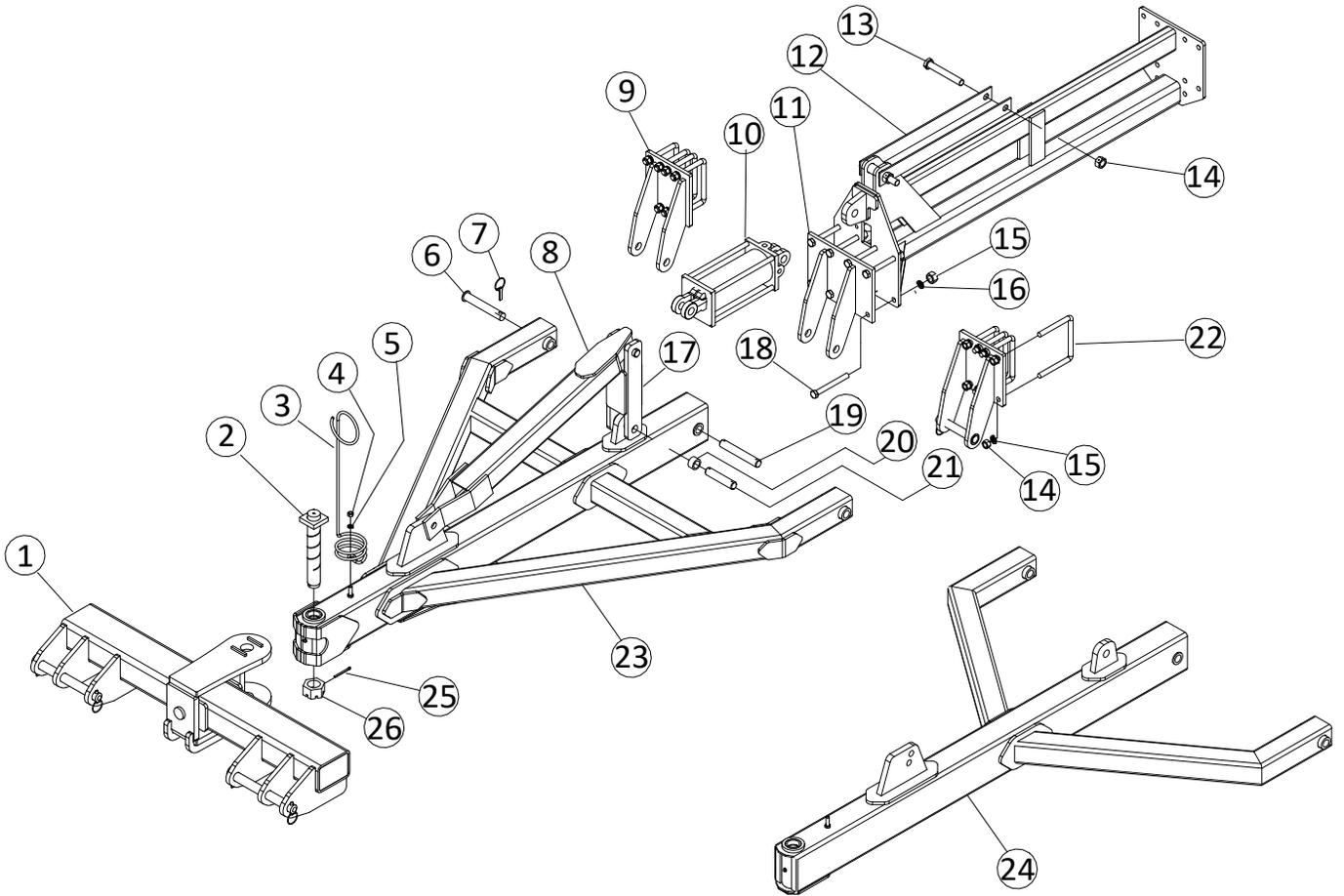


**Steerable Hitch Package
#403200**

Ref.	Part No.	Description
1	403095	Lower Hitch Mount Weldment
2	403085	Upper Hitch Mount Weldment
3	403065	Toolbar Cylinder Weldment
4	403120	Hitch Weldment
5	403130	2 Point Pole Swivel Bar
6	364860	12 Row Marker 2 Point Weldment
7	403125	Hitch Ear Weldment
8	403135	Frame Drop Tube Weldment
9	403140	Side Tube Weldment
10	403145	Vertical 2 Point Pin Weldment
11	354142	Slotted Nut, 2" NF
12	403128	Threaded Rod, 5/16" x 6"
13	20401	Nut, 5/16"
14	354140	Vertical 2 Point Pin Weldment
15	403060	Indicator Weldment
16	21030	U-Bolt, 7/8" x 7" x 7"
17	20508	Lock Washer, 7/8"
18	20408	Nut, 7/8"
19	228400	Category 3 Bottom 3 Point Pin
20	95032	Lynch Pin, 7/16"
21	20829	Cotter Pin, 1/4" X 3"
22	20082	Bolt, 3/4" X 2"
23	20507	Lock Washer, 3/4"
24	20407	Nut, 3/4"

Ref.	Part No.	Description
25	21018	U-bolt, 3/4 x 7 x 6-1/2"
26	20090	Bolt, 3/4" X 7"
27	20091	Bolt, 3/4" X 7-1/2"
28	403150	Cross Member Mount Weldment
29	20194	Bolt, 1" X 7"
30	20509	Lock Washer, 1"
31	20409	Hex Nut, 1"
32	20083	Bolt, 3/4" X 2-1/2" NC
33	403180	Toolbar Mount Weldment
34	403170	Disc Mount Weldment
35	403163	Mount Plate Long
36	403160	Outer Tube Weldment
37	403155	Slide Tube Weldment
38	21509	Spring, LHL-1500D-6 LEE
39	403190	Pivot Pin Weldment
40	95364	Lynch Pin, 1/4"
41	21016	U-bolt, 3/4" x 5" x 8-1/2"
42	21000	U-bolt, 1/2" x 2" x 3"
43	20052	Bolt, 1/2" X 1-1/2"
44	20504	Lock Washer, 1/2"
45	20404	Nut, 1/2"
46	20190	Bolt, 3/4" X 7"
47	20517	Washer, 3/4"
48	20428	Centerlock Nut, 3/4"

Depth Control Hitch

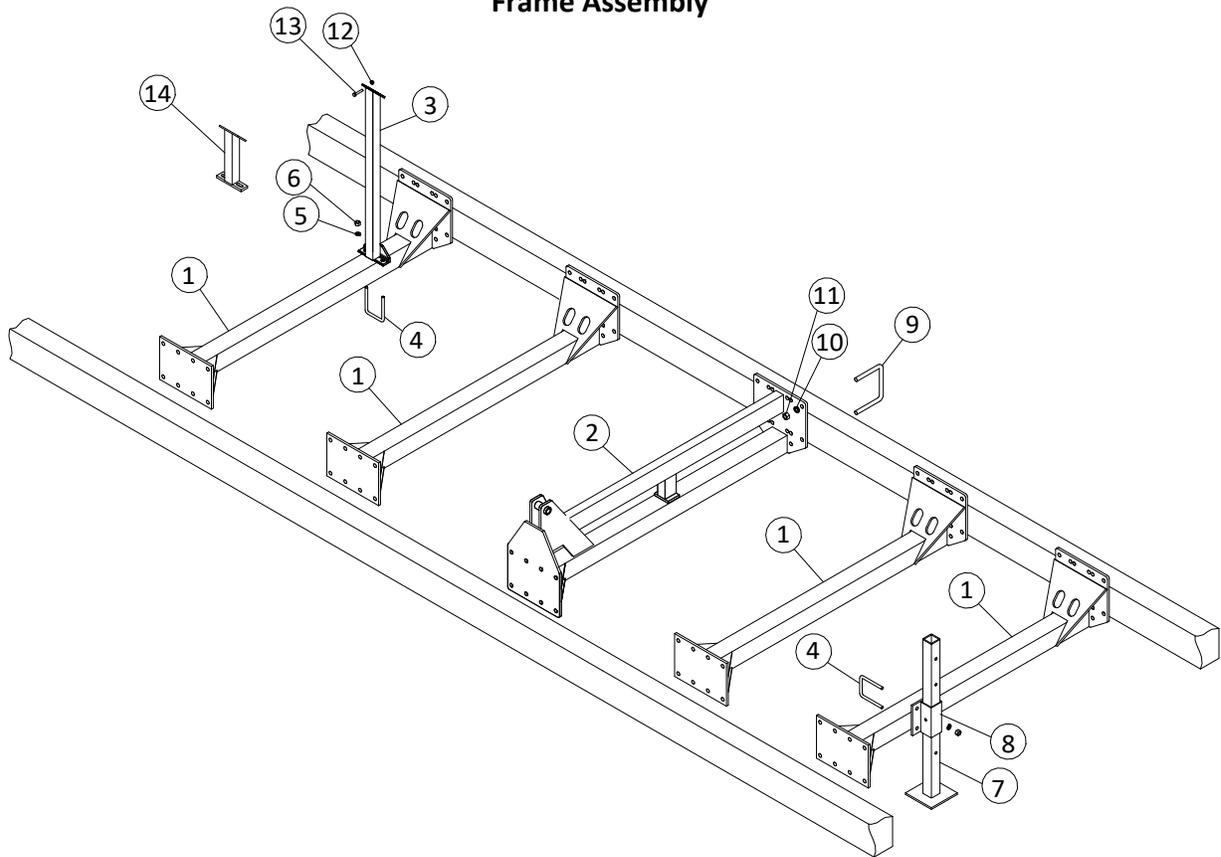


Depth Control Hitch
#354182 – 4 Row Depth Control Pole Hitch
#354198 – 6&8 Row Depth Control Pole Hitch

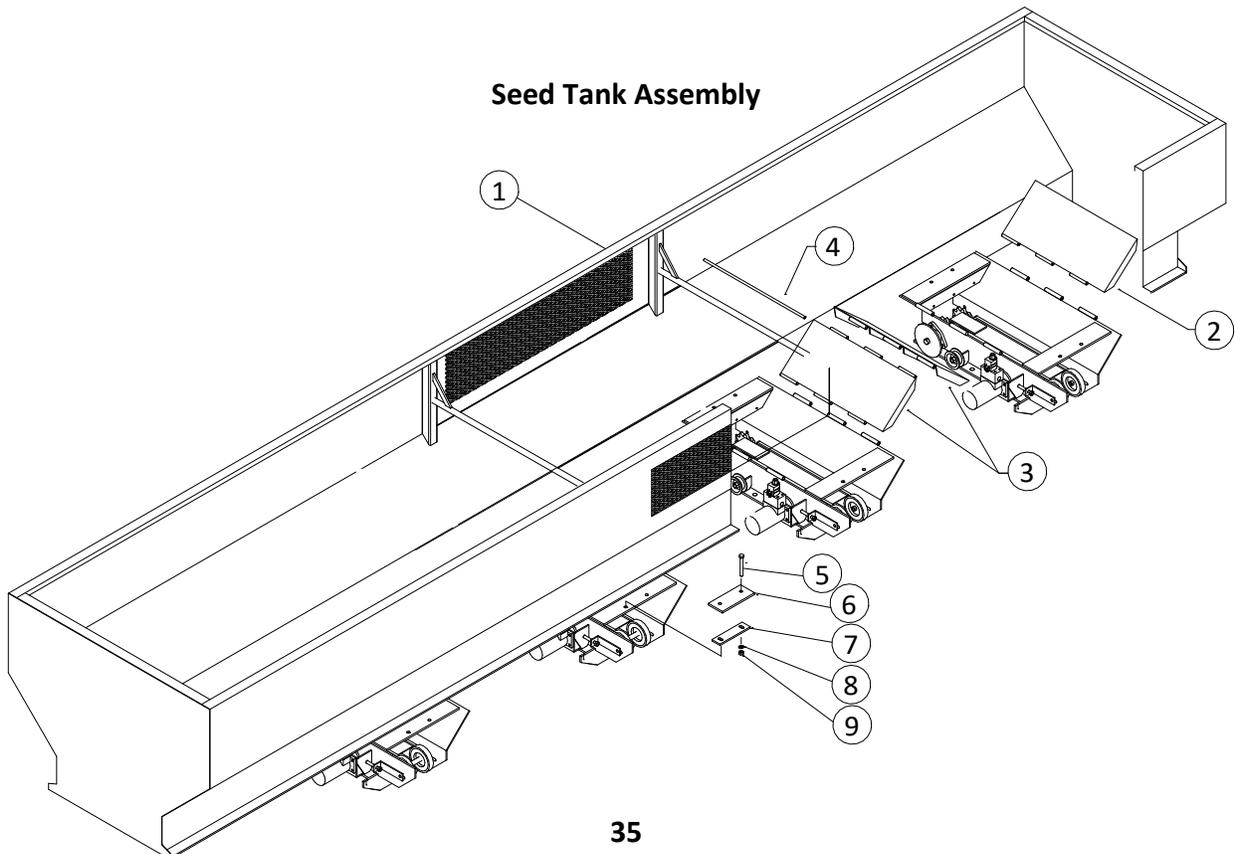
Ref.	Part No.	Description
1	402458	Swivel Bar, 2pt.
2	354140	Pin, 2 Pt. Vertical
3	355620	Hydraulic Hose Support
4	20404	Nut, 1/2"
5	20504	Lock Washer, 1/2"
6	354085	Hitch Pin, 1-1/4"
7	95032	Lynch Pin, 7/16"
8	433395	Hydraulic Hitch Brace
9	354035	Hitch Mount Right
10	96125	Hydraulic Cylinder, 5 x 8"
11	352070	Hitch Mount, Center
12	433219	Flat, Planter Pole Lockup
13	20108	Bolt, 1" x 7"

Ref.	Part No.	Description
14	20430	Centerlock Nut, 1"
15	20407	Nut, 3/4"
16	20507	Lock Washer, 3/4"
17	433385	Hydraulic Hitch Link
18	20090	Bolt, 3/4 x 7"
19	433316	Pin, Main Pivot
20	433218	Bushing, Hydraulic Hitch Link
21	433313	Pin, Hydraulic Hitch Link
22	21018	U-Bolt, 3/4" x 7" x 6-1/2"
23	433215	Hyd. Hitch Weldment, 6-8 Row
24	433315	Hyd. Hitch Weldment, 4 Row
25	20829	Cotter Pin, 1/4" x 3"
26	354142	Castle Nut, 2" NF

Frame Assembly



Seed Tank Assembly



Frame Assembly

Ref.	Part No.	Description
1	352020	Crossmember, Outer
2	352050	Crossmember, Center
3	355130	Tank Brace, Standard
4	21009	U-Bolt, 5/8" X 4" X 5 1/2"
5	20506	Lock Washer, 5/8"
6	20406	Nut, 5/8"
7	356525	Parking Stand Upright

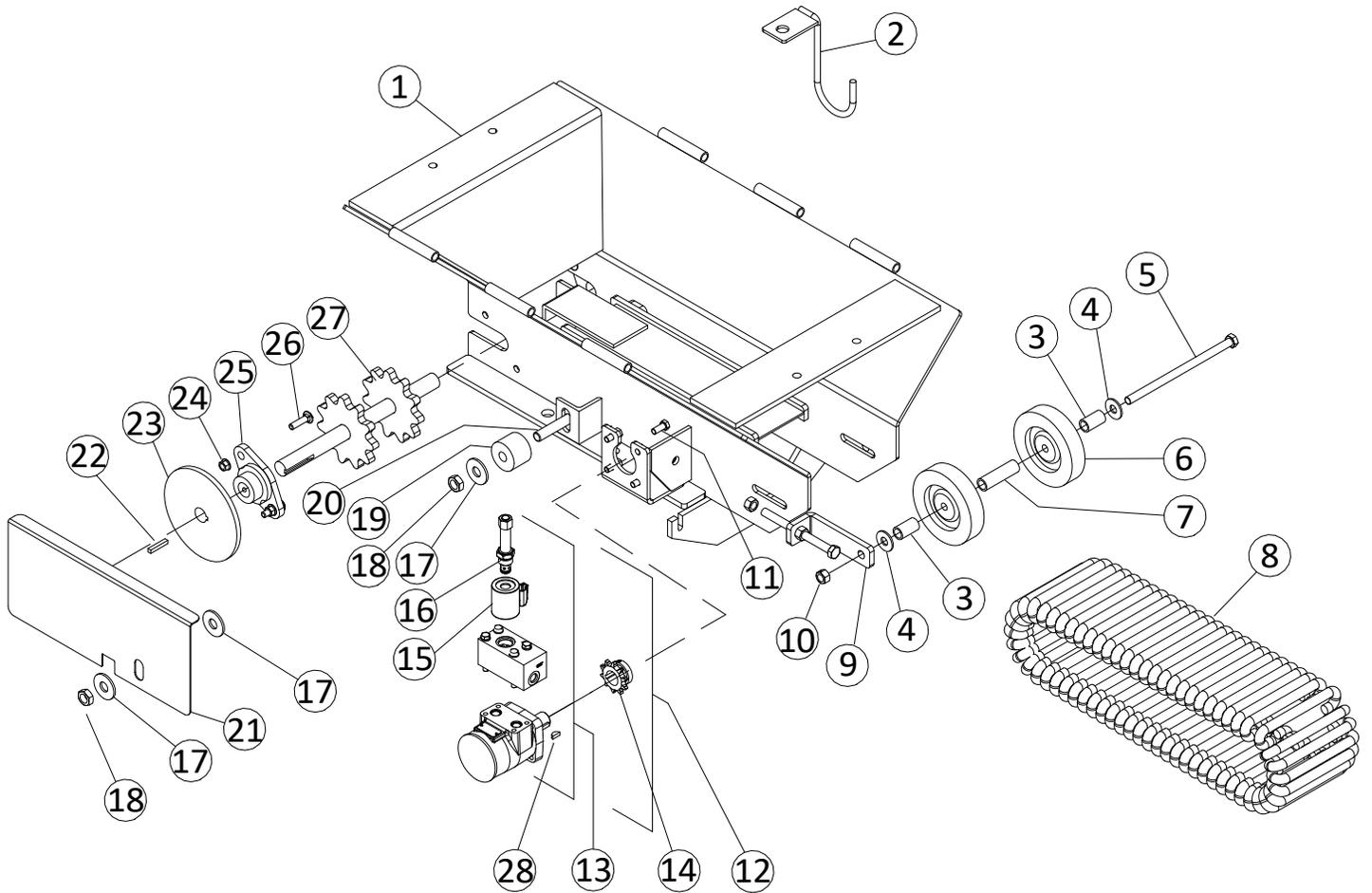
Ref.	Part No.	Description
8	356505	Parking Stand Mount
9	21018	U-Bolt, 3/4 X 7 X 6 1/2"
10	20507	Lock Washer, 3/4"
11	20407	Nut, 3/4"
12	20471	Flange Nut, 3/8"
13	20029	Bolt, 3/8" x 1"
14	355135	Tank Brace, Fertilizer

Seed Tank Assembly

Ref.	Part No.	Description
1	355140	4-Row Planter Seed Tank
-	355145	6-Row Planter Seed Tank
-	355150	8-Row Planter Seed Tank
2	351594	13" Feed Plate End
-	351624	Feed Plate End (34" Rows)
3	351590	11" Wide Feed Plate Weldment
-	351620	Feed Plate Weldment (34" Rows)

Ref.	Part No.	Description
4	351570	Feed Plate Hinge Rod
5	20053	Bolt, 1/2" x 2"
6	351430	Feed Box Mount Strap
7	351435	Feed Box Mount Shim
8	20504	Lock Washer, 1/2"
9	20404	Nut, 1/2"

Feedbox Assembly
#358965

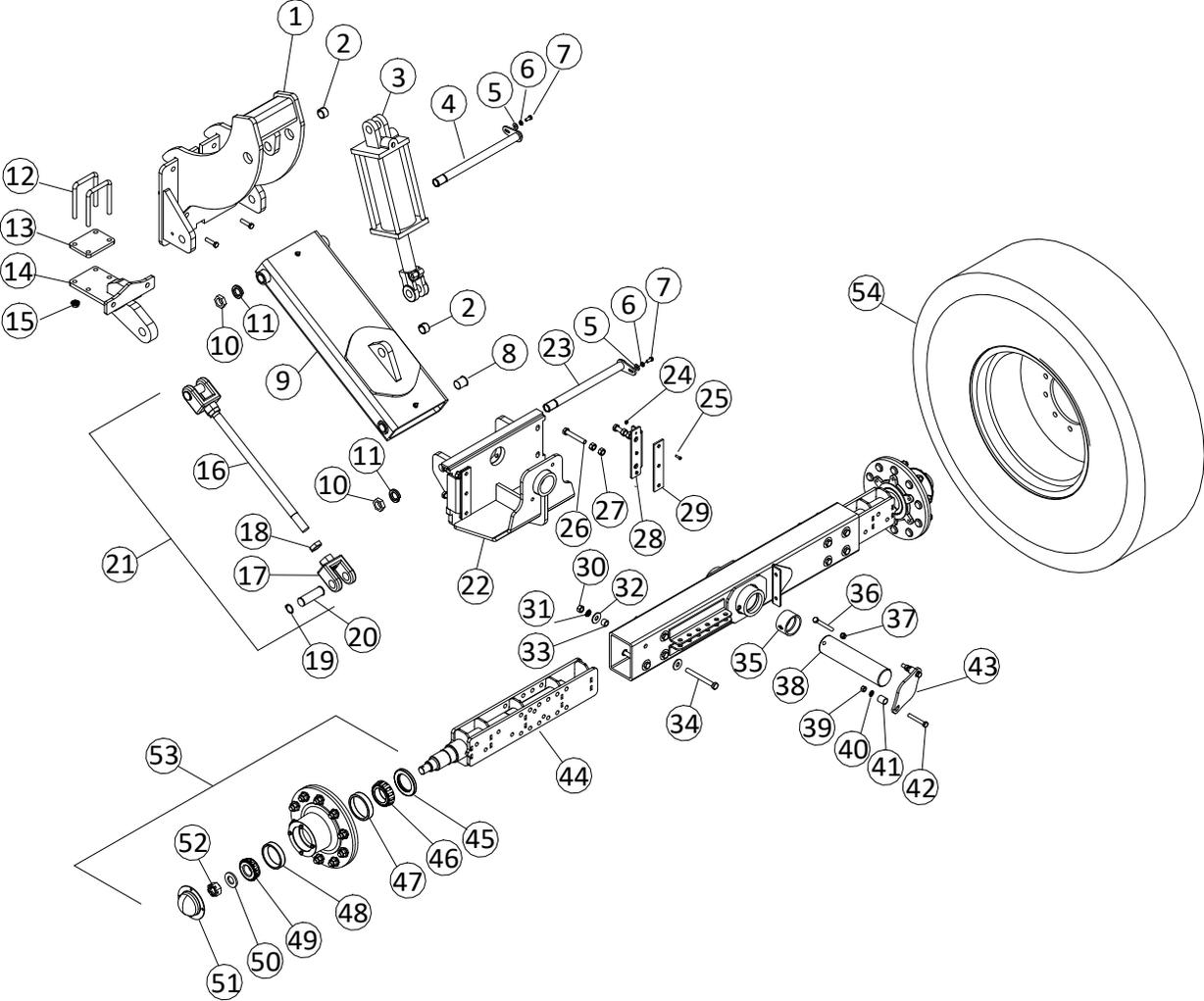


#358965 – Feed Box Assembly

Ref.	Part No.	Description
1	358955	Feed Box Weldment
2	351940	Hanger, Hydraulic Hose
3	351595	Spacer, Short Feedbox
4	20515	Washer, ½"
5	20054	Bolt, ½" x 9"
6	96105	Idler Roller, 5"
7	351598	Spacer, Feedbox Long
8	96026	Feed Chain, 7" (50 Links)
9	351510	Adjuster, Feed Chain Tension
10	20425	Centerlock Nut, ½"
11	20111	Bolt, 3/8" x 7/8"
12	351505	Motor, Feedbox w/ Sprocket/Solenoid/Valve
13	095502	Motor, Feedbox w/ Solenoid/Valve
14	96108	Sprocket, 5010 x 1" Bore

Ref.	Part No.	Description
15	96254	Coil w/ Diode
16	96194	Spool Valve
17	20536	Washer, 5/8"
18	20449	Jam Nut, 5/8"
19	402123	Idler Roller, 2"
20	20067	Bolt, 5/8" x 3"
21	358966	Shield, Clamp/Pick Feedbox
22	351072	Key, ¼" x 1-½"
23	96041	Sprocket, 5030 x 1" Bore
24	20471	Flange Nut, 3/8"
25	96049	Flange Bearing, 1"
26	20629	Bolt, 3/8" x 1-½"
27	351555	Drive Shaft, Feedbox
29	21211	High Profile Key, 1/4" x 1"

Walking Beam Package

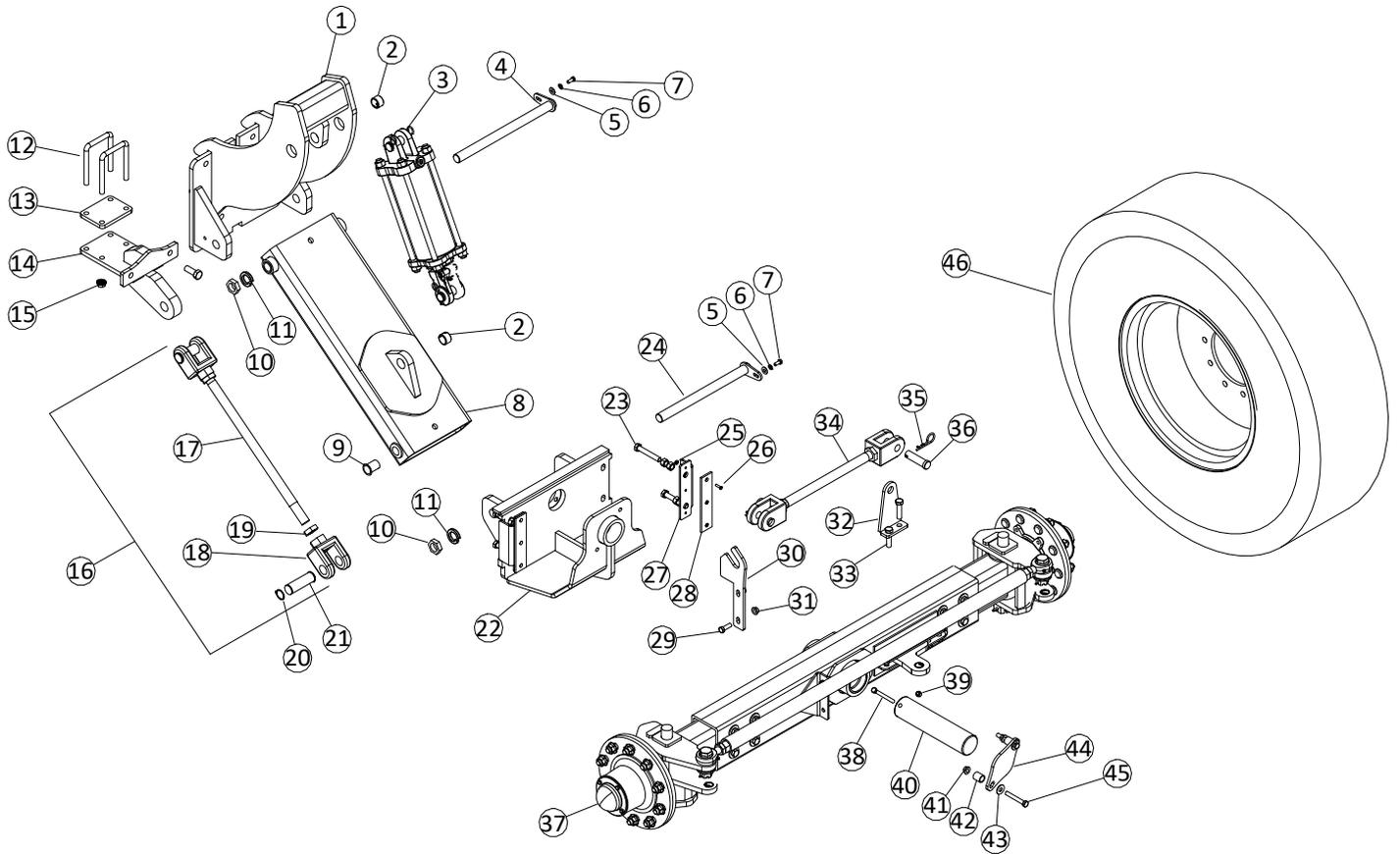


**Walking Beam Package
#380995**

Ref.	Part No.	Description
1	381007	Rear Steer Toolbar Mount
2	94761	Split Tension Bushing, 1-1/4"
3	95384	Hydraulic Cylinder, 5" x 10"
4	381009	Swing Arm Pin, Upper
5	20513	Washer, 3/8"
6	20502	Lock Washer, 3/8"
7	20111	Bolt, 3/8" x 7/8"
8	95389	Igus Bushing, Swing Arm
9	380961	Swing Arm Weldment
10	20461	Jam Nut, 1-1/4" NF
11	20522	Lock Washer, 1-1/4"
12	21009	U-Bolt, 5/8" x 4" x 5-1/2"
13	380796	Crossmember Mount Plate
14	381003	Radius Arm Bracket, Heavy
15	20476	Flange Nut, 5/8"
16	381022	Radius Arm Rod
17	20461	Jam Nut, 1-1/4" NF
18	94660	Clevis End, 1-3/8"
19	94661	Clevis Pin, 1-3/8" W/ Ret. Rings
20	90124	Retaining Ring, 1-3/8"
21	381021	Radius Arm Assembly, Heavy
22	381015	Rear Steer Axle Carrier Weldment
23	381016	Swing Arm Pin, Lower
24	20475	Flange Nut, 1/4"
25	20142	Countersink Bolt, 1/4" x 1" Phillips
26	20705	Bolt, 5/8 x 4" Fully Threaded
27	20406	Nut, 5/8"
28	380972	Beam Stabilizer

Ref.	Part No.	Description
29	380971	Stabilizer Pad
30	20406	Nut, 5/8"
31	20506	Lock Washer, 5/8"
32	20536	Washer, 5/8"
33	380391	Bushing, Adjustable Axle
34	20073	Bolt, 5/8" x 6"
35	352615	Machined Grooved Bearing
36	20060	Bolt, 1/2" x 5"
37	20404	Nut, 1/2"
38	381012	Walking Beam Pin, Heavy
39	20404	Nut, 1/2"
40	20504	Lock Washer, 1/2"
41	380997	Spacer, Walking Beam Pin
42	20057	Bolt, 1/2" x 3-1/2"
43	380896	Pin Retainer Plate
44	380580	Non-Steer Axle Weldment
45	95373	Seal, 10 Bolt Hub
46	95511	Bearing, 10 Bolt Hub Inner
47	95509	Race, 10 Bolt Hub Inner
48	95508	Race, 10 Bolt Hub Outer
49	95510	Bearing, 10 Bolt Hub Outer
50	95522	Washer, 1-5/16"
51	95524	Dust Cover, 10 Bolt Hub
52	95523	Castle Nut, 1-5/16"
53	380705	Tire/Rim, 13x24 Grader
54	95385	Hub, 10 Bolt
-	359389	Rim, 10 Bolt, 24"
-	96255	Grader Tire

Rear Steer Package

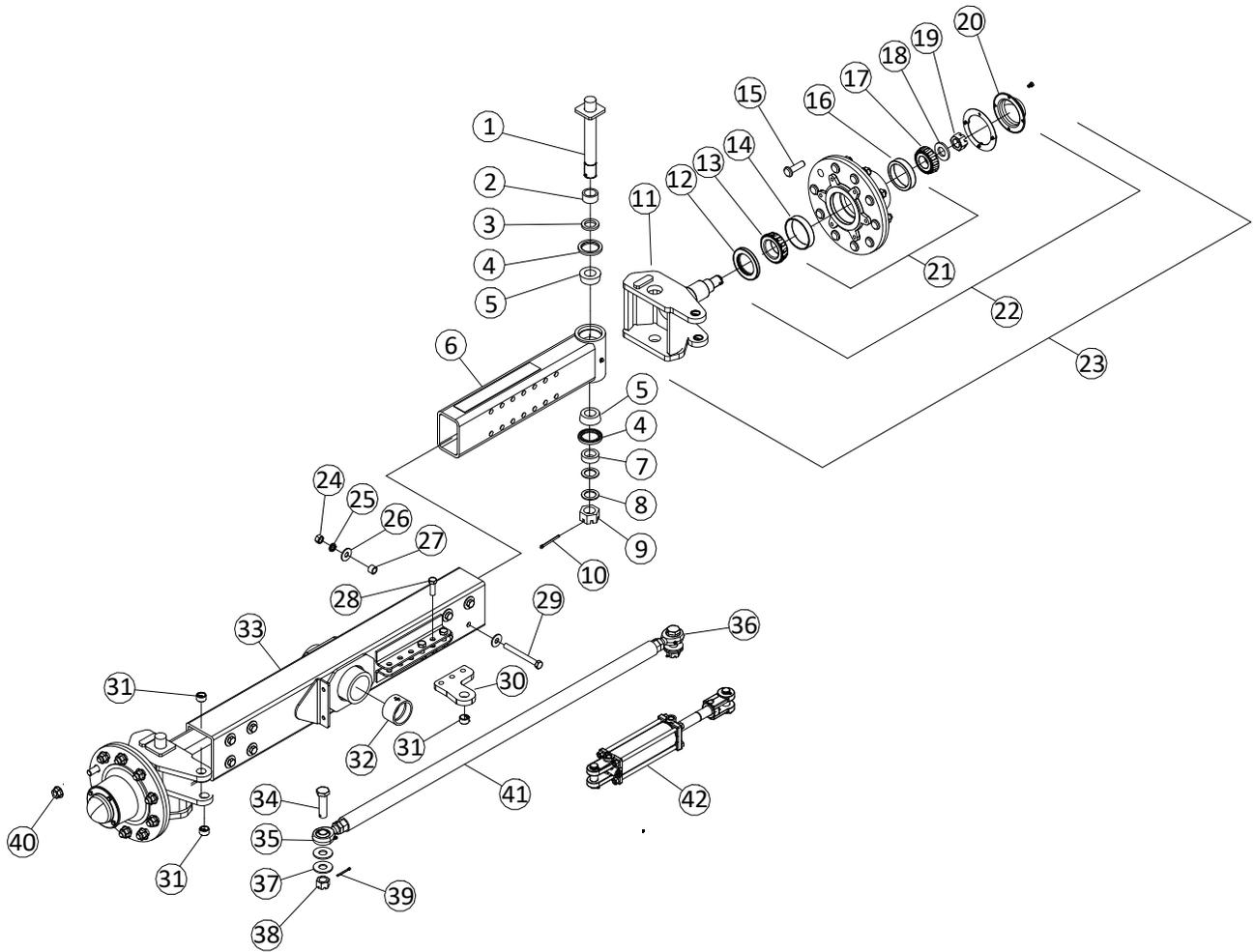


#380950 – Rear Steer Package
#380952 – Rear Steer (One Side / No Cylinders)

Ref.	Part No.	Description
1	381007	Toolbar Mount Weldment, Rear Steer
2	94761	Split Tension Bushing, 1-1/4"
3	95384	Hydraulic Cylinder, 5" x 10"
4	381009	Swing Arm Pin, Upper
5	20513	Washer, 3/8"
6	20502	Lock Washer, 3/8"
7	20111	Bolt, 3/8" x 7/8"
8	380961	Swing Arm Weldment
9	95389	Igus Bushing, Swing Arm
10	20461	Jam Nut, 1-1/4" NF
11	20522	Lock Washer, 1-1/4"
12	21009	U-Bolt, 5/8"
13	380796	Crossmember Mount Plate
14	381003	Radius Arm Bracket, Heavy
15	20476	Flange Nut, 5/8"
16	381021	Radius Arm Assembly, Heavy
17	381022	Radius Arm Rod
18	94660	Clevis End, 1-3/8"
19	20461	Jam Nut, 1-1/4" NF
20	90124	Retaining Ring, 1-3/8"
21	94661	Clevis Pin, 1-3/8" (W/ Ret. Rings)
22	381015	Weldment, Rear Steer Carrier
23	20705	Bolt, 5/8" x 4" Fully Threaded
24	381016	Swing Arm Pin, Lower

Ref.	Part No.	Description
25	20475	Flange Nut, 1/4"
26	20142	Countersink Bolt, 1/4" x 1" Phillips
27	380972	Beam Stabilizer Weldment
28	380971	Stabilizer Pad
29	20052	Bolt, 1/2" x 1-1/2"
30	380979	Lock Bar Bracket
31	20505	Flange Nut, 1/2"
32	380975	Lock Bar Holder
33	20066	Bolt, 5/8" x 2-1/2"
34	380980	Lock Bar Assembly
35	20915	Bridge Pin #6, 3/16"
36	20893	Clevis Pin, 1" x 3-1/2"
37	401600	Steering Beam Assembly With Inserts
38	20026	Bolt, 7/16" x 5"
39	20403	Nut, 7/16"
40	381012	Walking Beam Pin Heavy
41	20505	Flange Nut, 1/2"
42	380997	Walking Beam Spacer Pin
43	20515	Washer, 1/2" Flat
44	380896	Pin Retainer Plate
45	20057	Bolt, 1/2" x 3-1/2"
46	380705	Tire/Rim, 13" x 24" Grader
-	359389	Rim, 10 Bolt, 24"
-	96255	Grader Tire

Rear Steer Axle
#401600



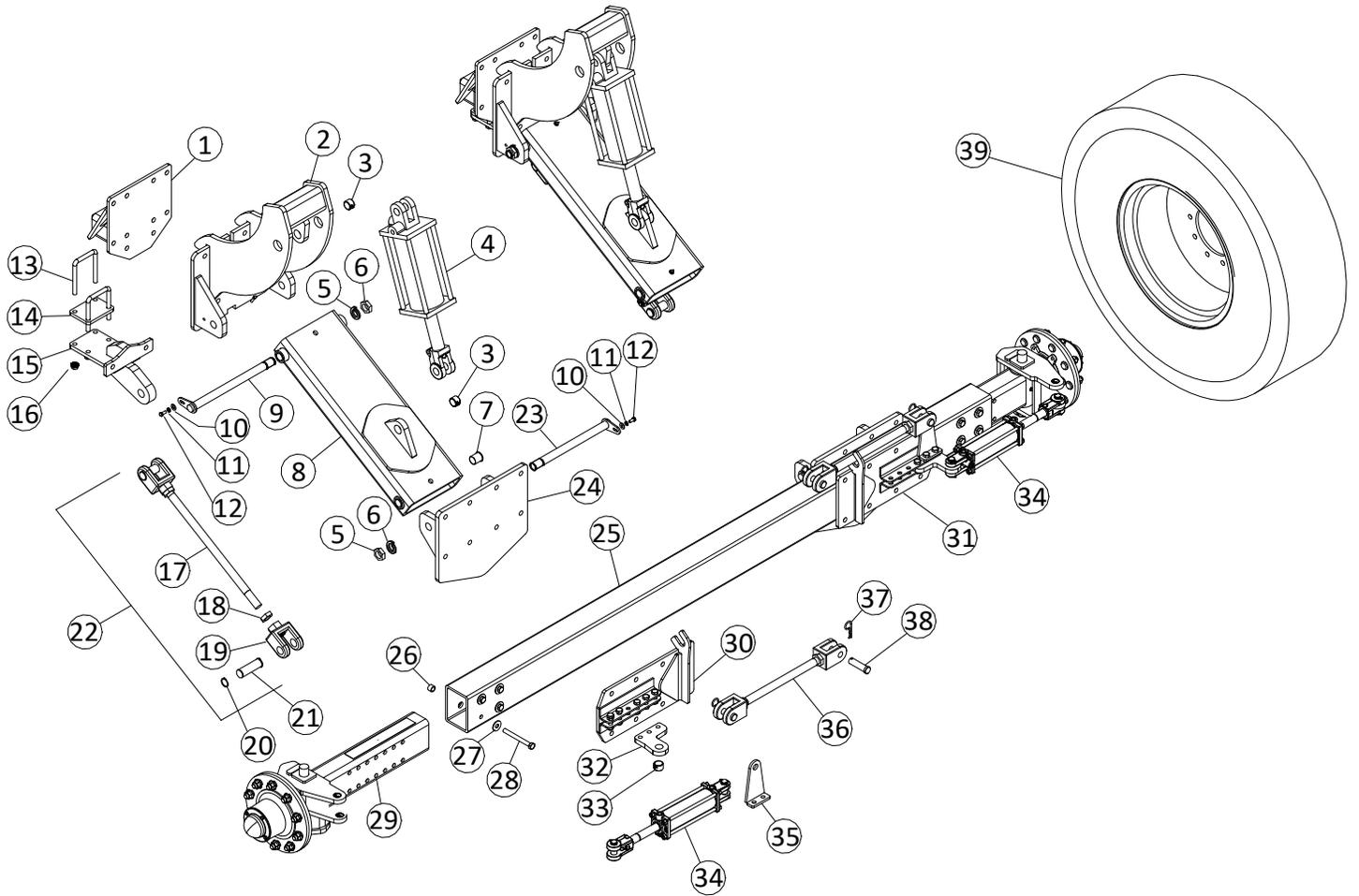
#401600 – Rear Steer Axle

Ref.	Part No.	Description
1	380825	Kingpin Weldment
2	401546	Upper Knuckle Bushing
3	380878	Upper Knuckle Bushing
4	95388	Kingpin Bearing Seal
5	95386	Kingpin Bearing
6	380870	Adjustable Slide Tube
7	380894	Lower Knuckle Bushing
8	21352	Bushing, 1-1/2" Narrow 10 Ga.
9	20829	Cotter Pin, 1/4" x 3"
10	352535	Slotted Spindle Nut 1-1/2" NF
11	401554	Weldment, Right Knuckle W/ Insert
-	401553	Weldment, Left Knuckle W/ Insert
12	95373	Seal, 10 Bolt Hub
13	95511	Bearing, 10 Bolt Hub Inner
14	95509	Race, 10 Bolt Hub Inner
15	95377	Wheel Stud, 10 Bolt Hub
16	95508	Race, 10 Bolt Hub Outer
17	95510	Bearing, 10 Bolt Hub Outer
18	95522	Washer, 1-5/16"
19	95523	Castle Nut, 1-5/16"
20	95524	Dust Cap, 10 Bolt Hub
21	95521	10 Bolt Hub W/ Races
22	95385	10 Bolt Hub Assembly

Ref.	Part No.	Description
23	404412	10 Bolt Hub/Spindle/Knuckle RH
-	404413	10 Bolt Hub/Spindle/Knuckle LH
24	20406	Nut, 5/8"
25	20506	Lock Washer, 5/8"
26	20536	Washer, 5/8"
27	380391	Bushing, Adjustable Axle
28	20065	Bolt, 5/8" x 2"
29	20073	Bolt, 5/8" x 6"
30	401593	Steering Cylinder Ear W/ Insert
31	94760	Split Tension Bushing, Insert
32	352615	Pivot Bearing
33	380740	Pivot Tube Weldment
34	401558	Bolt, 1" x 3-1/2" Drilled
35	98005	Tie Rod End LH
36	98004	Tie Rod End RH
37	20519	Washer, 1"
38	20174	Castle Nut, 1"
39	20832	Cotter Pin, 3/16" x 2"
40	-	Lug Nut, 10 Bolt Hub
41	380840*	Tie Rod, 6-8R Rear Steer
42	95447	Hyd. Cylinder, 3x8" Single Rephasing
NS	95448	Hyd. Cylinder, 3-1/4x8" Single Rephasing

*Specify length when ordering

**4 Row Rear Steer Assembly
#405151**

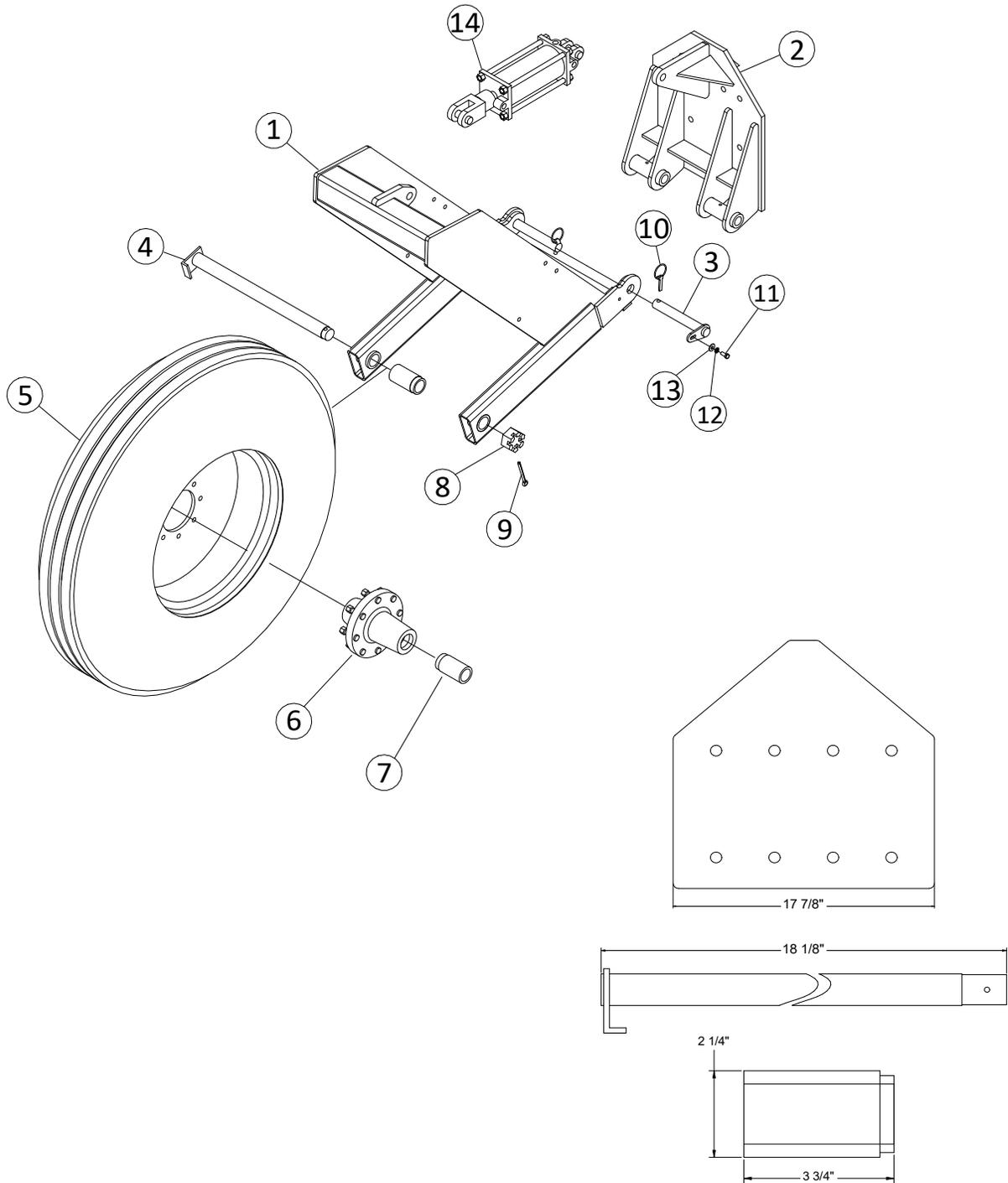


**4 Row Rear Steer Assembly
#405151**

Ref.	Part No.	Description
1	367333	Rear Steer Front Mount Weldment
2	381007	Weldment, Rear Steer Narrow
3	94761	Split Tension Bushing, 1-1/4"
4	95384	Hydraulic Cylinder, 5" x 10"
5	20522	Washer, 1-1/4" Lock
6	20461	Jam Nut, 1-1/4" NF
7	95389	Igus Bushing, Swingarm
8	380961	Swing Arm Weldment
9	381009	Swing Arm Pin, Upper
10	20513	Washer, 3/8"
11	20502	Lock Washer, 3/8"
12	20111	Bolt, 3/8" x 7/8"
13	21009	U-bolt, 5/8" x 4" x 5-1/2"
14	380796	Crossmember Mount Plate
15	381003	Radius Arm Bracket Heavy
16	20476	Flange Nut, 5/8"
17	381022	Radius Arm Rod
18	20461	Jam Nut, 1-1/4" NF
19	94660	Clevis End, 1-3/8"
20	94661	Clevis Pin, 1-3/8" (W/ Ret. Rings)
21	90124	Retaining Ring, 1-3/8"

Ref.	Part No.	Description
22	381021	Radius Arm Assembly, Heavy
23	381016	Swing Arm Pin, Lower
24	405211	4R Rear Steer Axle Carrier Weldment
25	405152	4R Rear Steer Axle Tube
26	380391	Bushing, Adjustable Axle
27	20536	Washer, 5/8"
28	20073	Bolt, 5/8" x 6"
29	401549	Axle Assembly, Left Knuckle
-	401548	Axle Assembly, Right Knuckle
30	405155	Rear Steer Cylinder Mount Left
31	405162	Rear Steer Cylinder Mount Right
32	401593	Steering Cylinder Ear W/ Insert
33	94760	Split Tension Bushing, 1"
34	95380	Hyd Cylinder, 3x8" Dual Rephasing
35	380975	Lock Bar Holder
36	380980	Lock Bar Assembly
37	20915	Bridge Pin #6, 3/16"
38	20893	Clevis Pin, 1" x 3-1/2"
39	380705	Tire/Rim, 13x24 Grader
-	359389	Rim, 10 Bolt, 24"
-	96255	Grader Tire

Lift Wheel Assembly #352921 / 352920

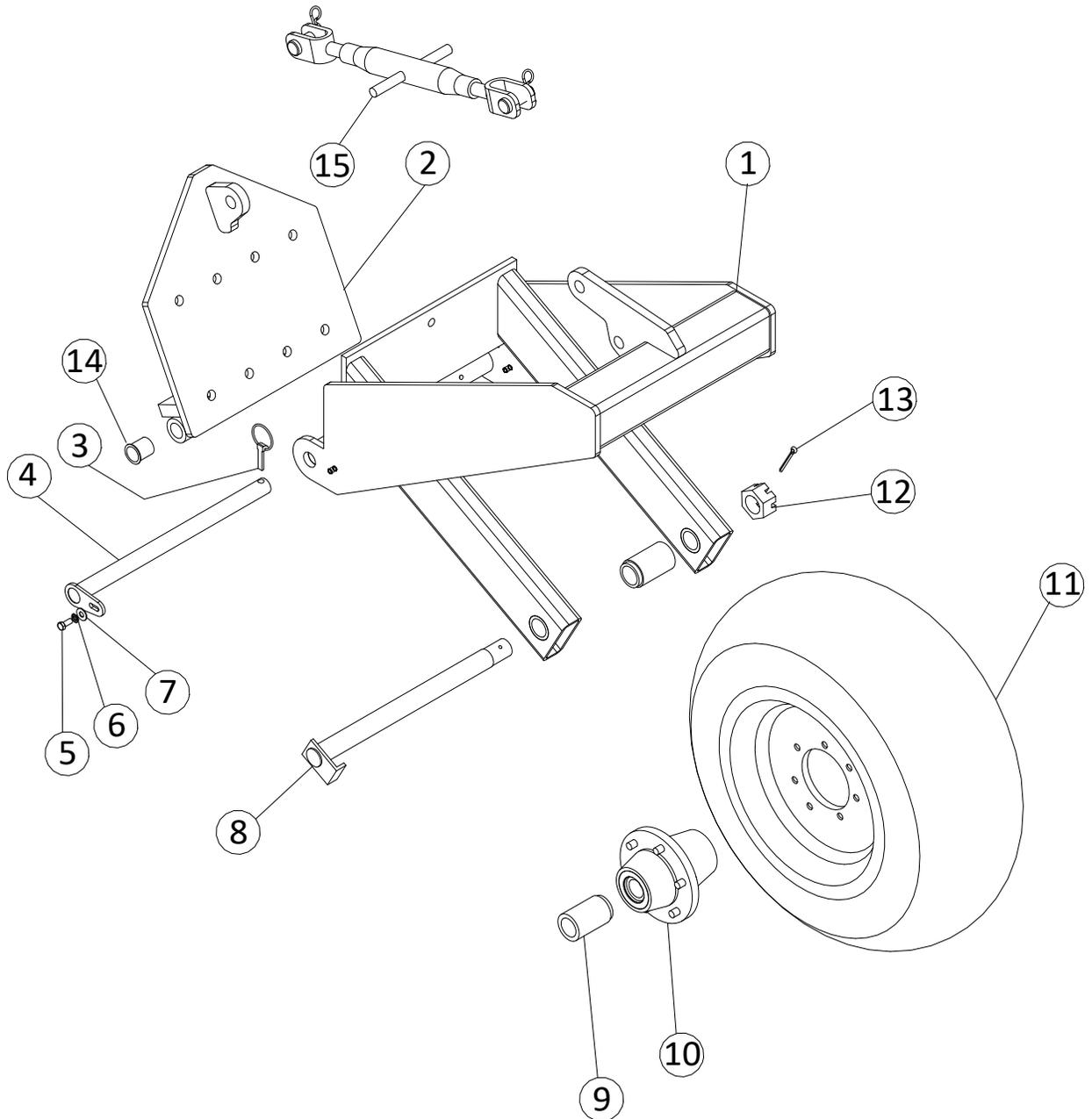


**Lift Wheel Assembly
#352921 / 352920**

Ref.	Part No.	Description
1	352770	Large Rear Wheel Lift Weldment
2	352800	Lift Wheel Large Plate Weldment
3	365367	Pivot Pin Large Wheel
4	352775	1 3/4" Spindle Weldment
5	96162	11.25" X 24" Tire / Rim
-	96166	11.25" x 24" Rim Only
NS	352870	11.25" x 24" Tire/Rim with 1/2" Center
-	352875	11.25" x 24" Rim with 1/2" Center
-	96165	11.25" x 24" Tire & Tube (352870)
NS	352881	12" x 24" Tire / Rim with 1/2" Center
-	382860	12" x 24" Rim with 1/2" Center
-	96255	12" x 24" Grader Tire (352881)

Ref.	Part No.	Description
NS	96163	14.9" x 24" Tire / Rim Diamond Tread
-	352860	14.9" x 24" Rim with 1/2" Center
-	96060	14.9" x 24" Tire Diamond Tread (352865)
6	352761	Large Wheel Hub - 8 Bolt
7	352784	Spindle Spacer (Large Wheel)
8	20463	Slotted Nut, 1 3/4" NF
9	20831	Cotter Pin, 3/8" X 3"
10	95032	Lynch Pin, 7/16"
11	20111	Bolt, 3/8" X 7/8"
12	20502	Lock Washer, 3/8"
13	20513	Washer, 3/8"
14	95142	Hydraulic Cylinder, 4"x8" 3000 psi w/ Stop

**Front Stabilizer Assembly
#352780**

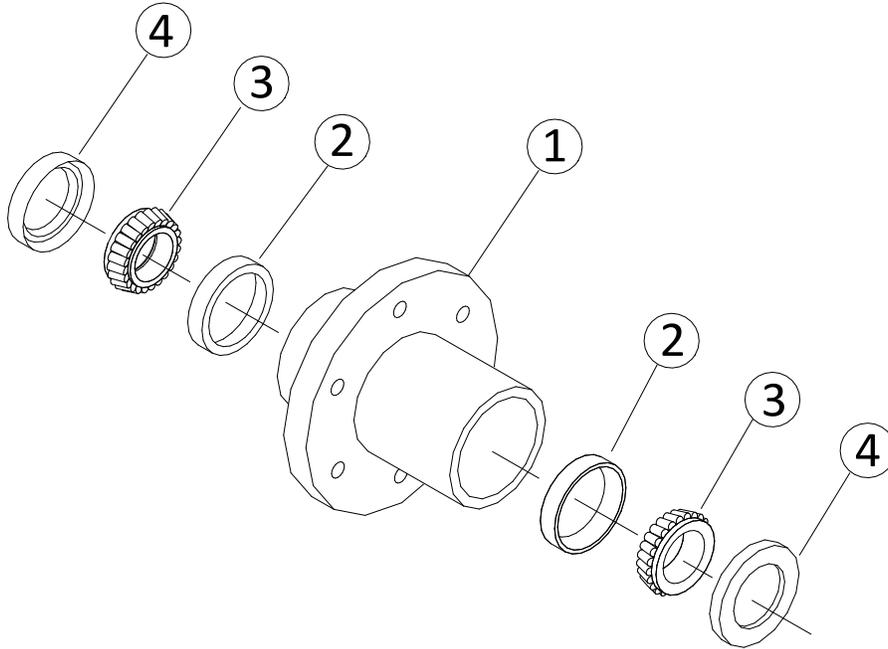


**Front Stabilizer Wheel
#352780**

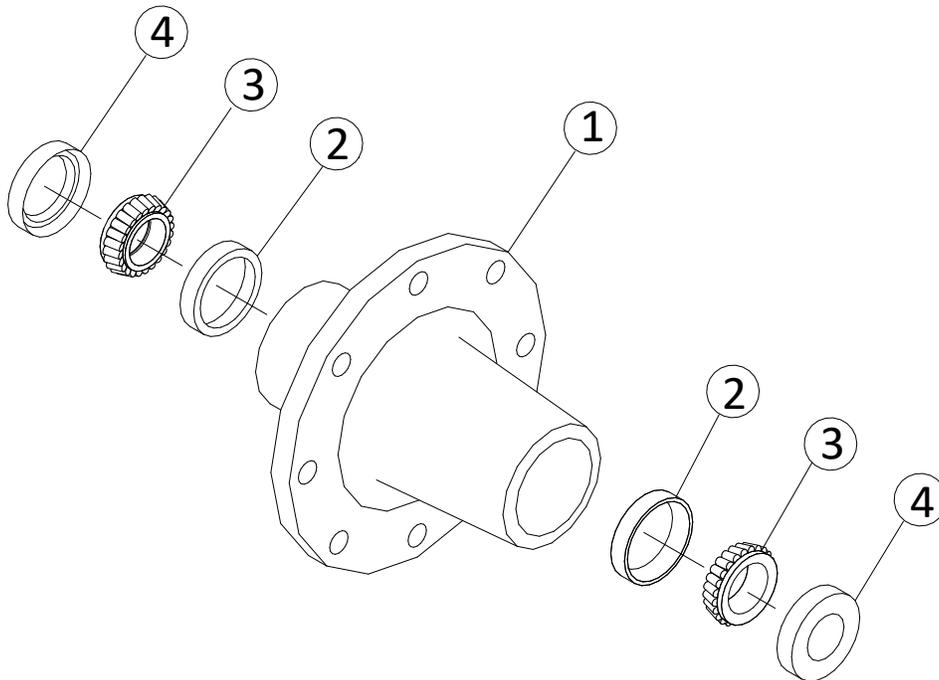
Ref.	Part No.	Description
1	352515	Lift Wheel Frame Weldment
2	352650	Lift Wheel Toolbar Mount
3	95032	Lynch Pin, 7/16"
4	352556	Pin, Stabilizer Pivot
5	20111	Bolt, 3/8" x 7/8"
6	20502	Lock Washer, 3/8"
7	20513	Washer, 3/8"
8	352530	Spindle, Stabilizer Wheel

Ref.	Part No.	Description
9	352540	Spacer, Spindle
10	352561	Hub, Stabilizer Wheel with Bolts
11	96271	Tire / Rim 12.5 x 16 , 8 Bolt
12	352535	Slotted Spindle Nut, 1-1/2" NF
13	20830	Cotter Pin 1/4" x 2-1/2"
14	95389	Swingarm Igus Bushing
15	21202	Turnbuckle, Depth Adjustment

**Fork Hub Assembly
#352561**



**Large Wheel Hub
#352761**



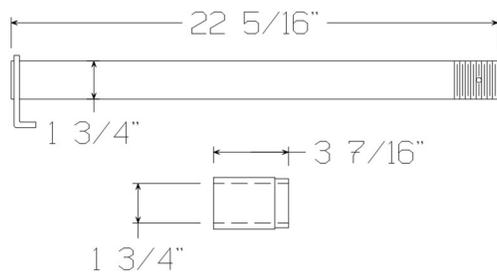
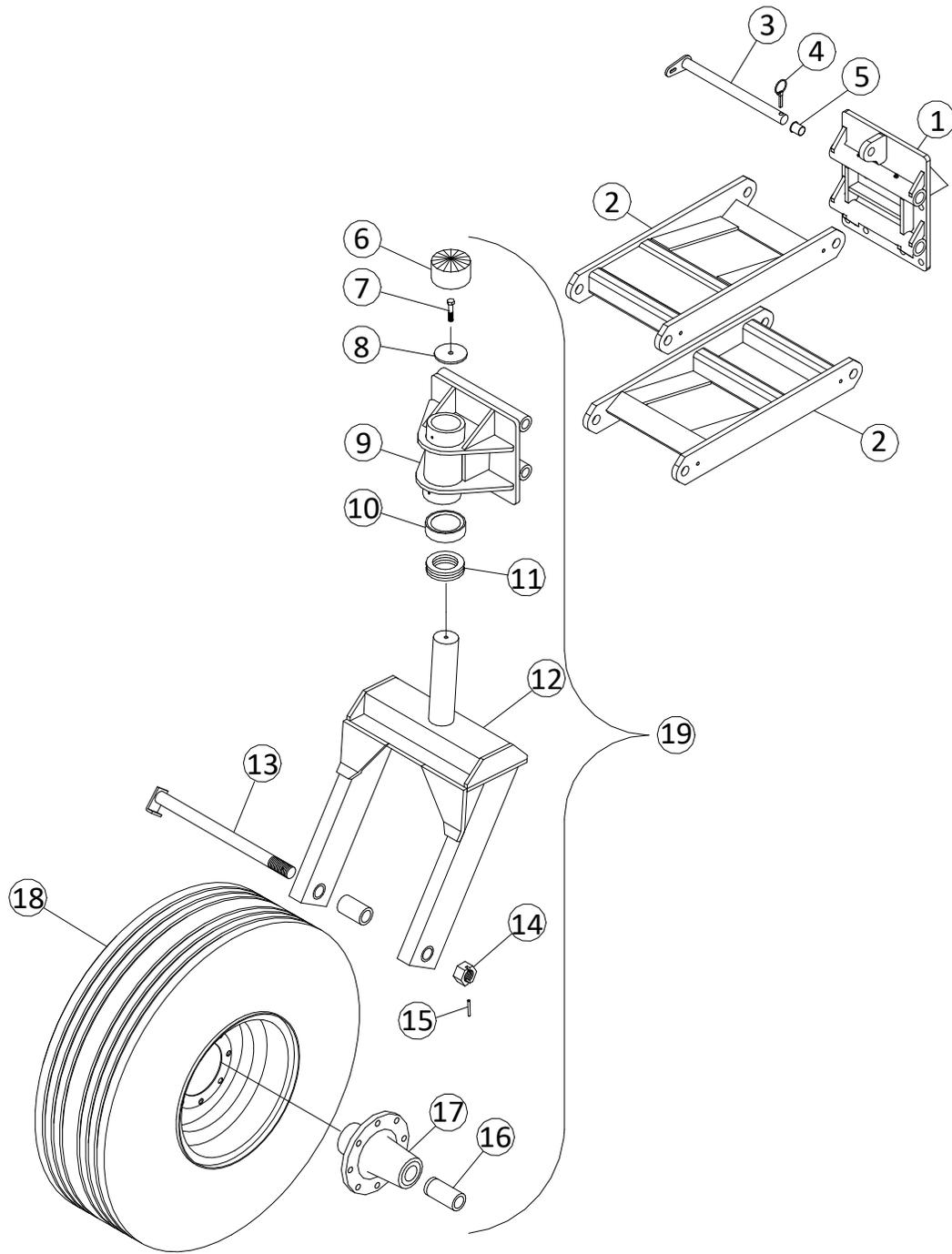
**Fork Hub Assembly with Wheel Bolts
#352561**

Ref.	Part No.	Description
1	096031	Hub with Cup (Planter) HA-628
2	082136	Bearing Cup 2720
3	082137	Bearing Cone 2788
4	096092	Seal SE-29 Planter Yoke Hub

**Large Wheel Hub Painted with Nuts
#352761**

Ref.	Part No.	Description
1	96181	7500# Hub HDA-820
2	82154	Bearing Cup 25520
3	96183	Tapered Roller Bearing 25580
4	96184	Oil Seal SE26
-	96185	Nut WB18

Hydraulic Caster Wheel

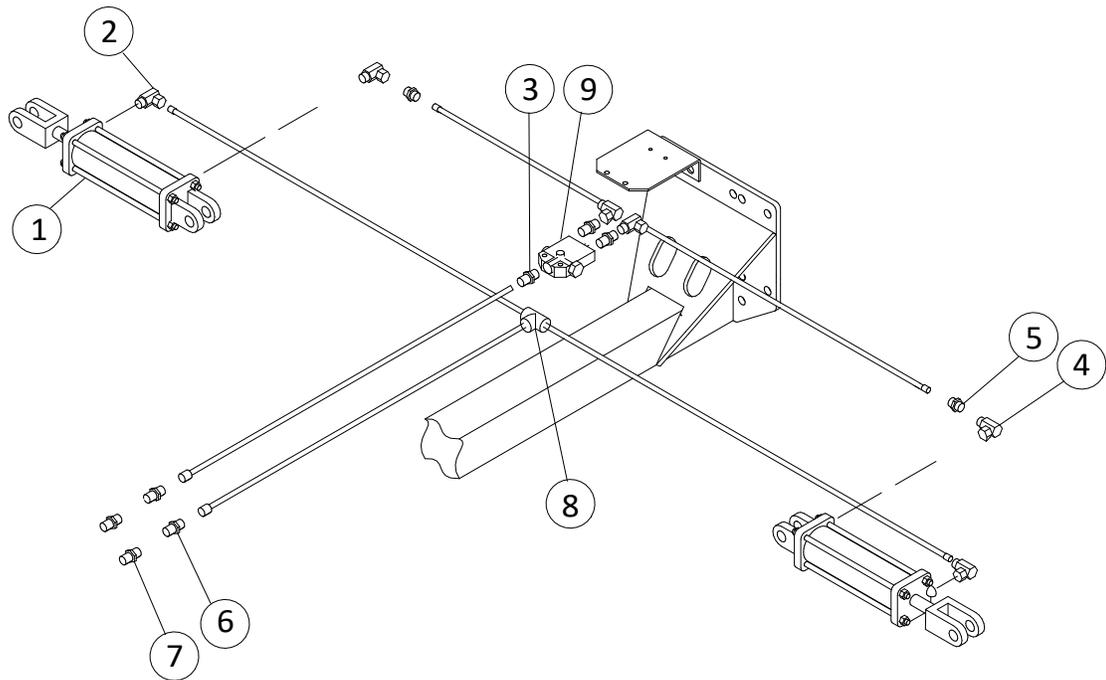
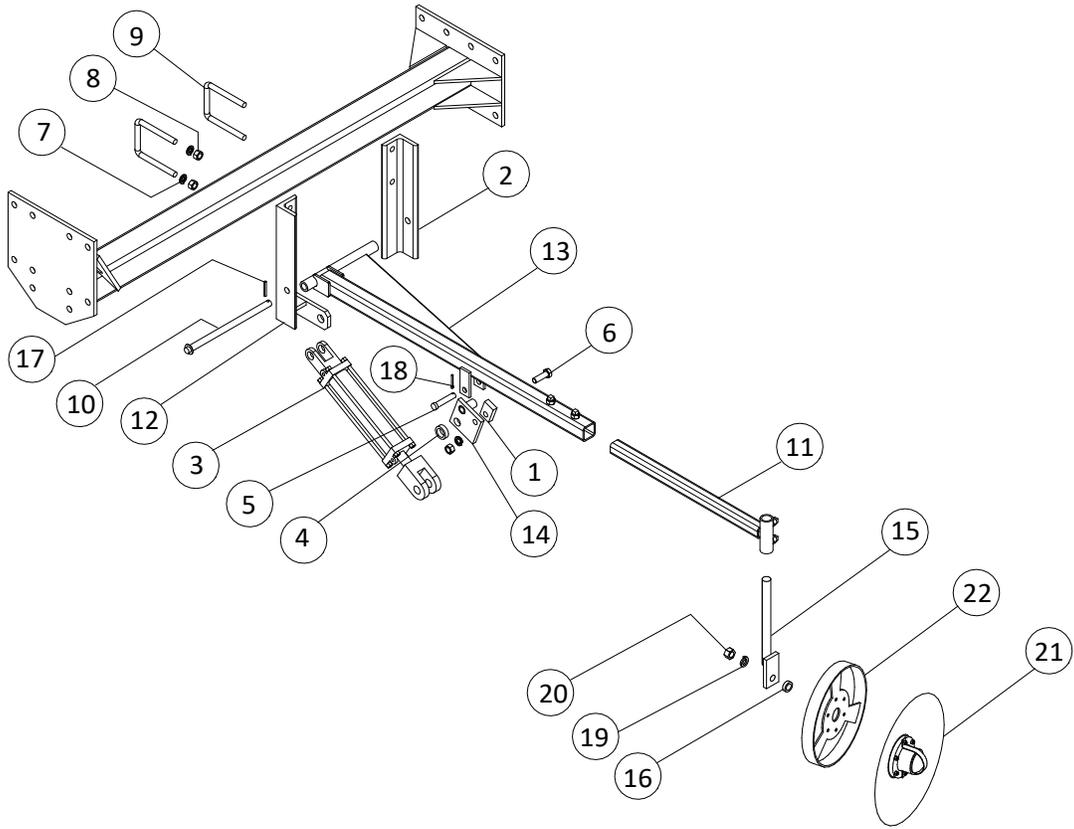


Hydraulic Caster Wheel

Ref.	Part No.	Description
1	365371	Front Toolbar Mount, Hydraulic Caster
2	365380	Linkage, Caster Wheel
3	365355	Pin, Hydraulic Caster Wheel
4	95032	Lynch Pin 7/16"
5	95389	Bushing, Swingarm
6	95085	4 1/2" Cap (Caster Wheel)
7	20118	Bolt, 1/2" X 1 1/4" NC
8	352578	Retainer Cap
9	365372	Weldment – Hydraulic Caster Rear Mt.
NS	365040	Brass Bushing with Grease Groove
10	366050	Truss Bearing Cover 4 1/2" OD

Ref.	Part No.	Description
11	96121	Truss Bearing, 4 1/2" OD X 3" ID
12	365390	Weldment – Caster Wheel Frame
13	352395	Spindle Weldment, 1-3/4"
14	20463	Castle Nut, 1-3/4" NF
15	20831	Cotter Pin, 3/8" X 3"
16	365397	Caster Spacer
17	352761	Large Wheel Hub Painted – 8 Bolt
18	96196	14L x 16.1 Tire/Rim 8 Bolt
-	96271	12.5 x 16 Tire/Rim 8 Bolt
19	365303	Caster Wheel Assembly

4 Row Marker (Tractor Center Mark)



**4 Row Marker Package (Tractor Center Mark)
#3562**

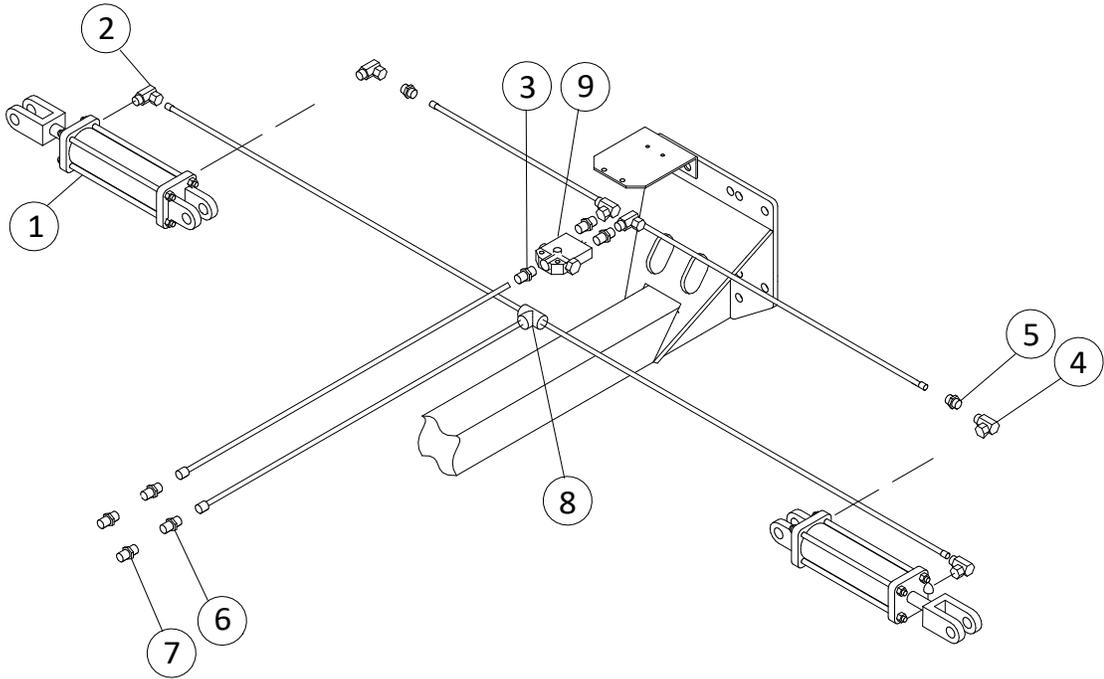
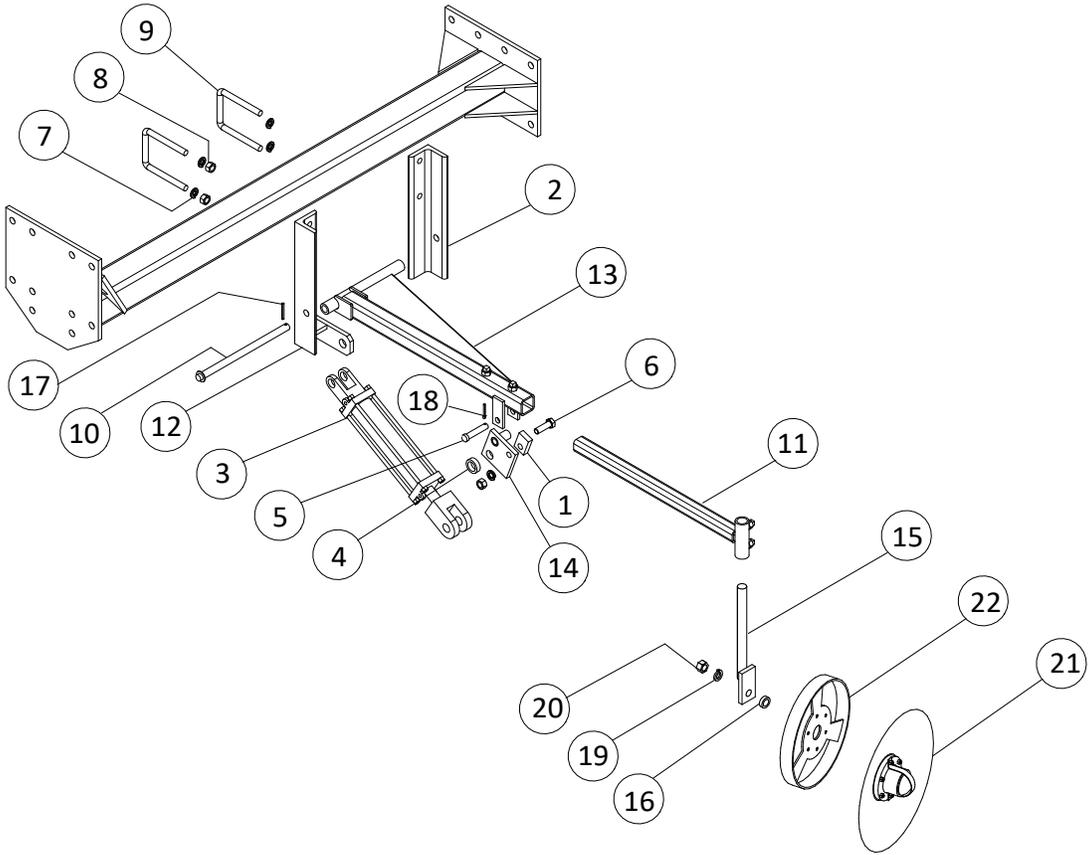
Ref.	Part No.	Description
1	356928	Stop Flat
2	356953	Right Angle
-	356952	Left Angle
3	95171	Cylinder, 2" x 8"
4	356929	Cylinder Spacer Bushing
5	20896	Clevis Pin, 5/8" x 3"
6	20065	Bolt, 5/8 x 2"
7	20506	Lock Washer, 5/8"
8	20406	Nut, 5/8"
9	21009	U-Bolt, 5/8" X 4" X 5 1/2"
10	356930	4 Row Pivot Pin Weldment
11	356420	Marker Extension Arm (Long)
12	356950	Right Angle w/cylinder mount

Ref.	Part No.	Description
-	356955	Left Angle w/cylinder mount
13	356965	4 Row Marker Arm Right (Center)
-	356960	4 Row Marker Arm Left (Center)
14	356940	Cylinder Pivot Weldment Right
-	356925	Cylinder Pivot Weldment Left
15	356440	Marker Disc Mount
16	211663	3/8" Bushing Spacer (Marker)
17	20967	Roll Pin, 1/4" x 2"
18	20826	Cotter Pin, 3/16" x 1-1/2"
19	20507	Lock Washer, 3/4"
20	20407	Nut, 3/4"
21	211845	Disc with Hub (Double Bearing)
22	211850	Marker Depth Guide Wheel

Ref.	Part No.	Description
1	95171	Hydraulic Cylinder, 2" x 8" 3/4"
2	95169	3/4 ORB x 9/16 JIC Elbow
3	95167	3/4 -16 ORB x 9/16 JIC Adapter
4	95169	3/4 ORB x 9/16 JIC Elbow
5	95168	Hose End, -6 Straight Female
6	83006	Hose End, -4 to -8 Straight Female

Ref.	Part No.	Description
7	96289	Male Tip 3/4" Pioneer End
8	95160	9/16 JIC Tee
9	96048	Sequence Valve
NS	96704	Grip, Red Hydraulic Hose Pressure
NS	96705	Grip, Red Hydraulic Hose Return
NS	83029	Restrictor, 06 MJ 08 MB .062

4 Row Marker (Tractor Tire Mark)



**4 Row Marker Package (Tractor Tire Mark)
#3561**

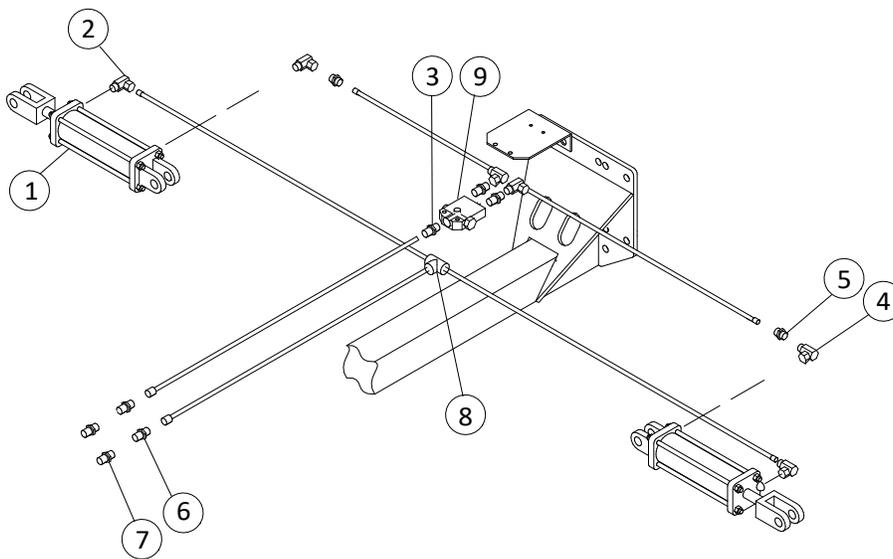
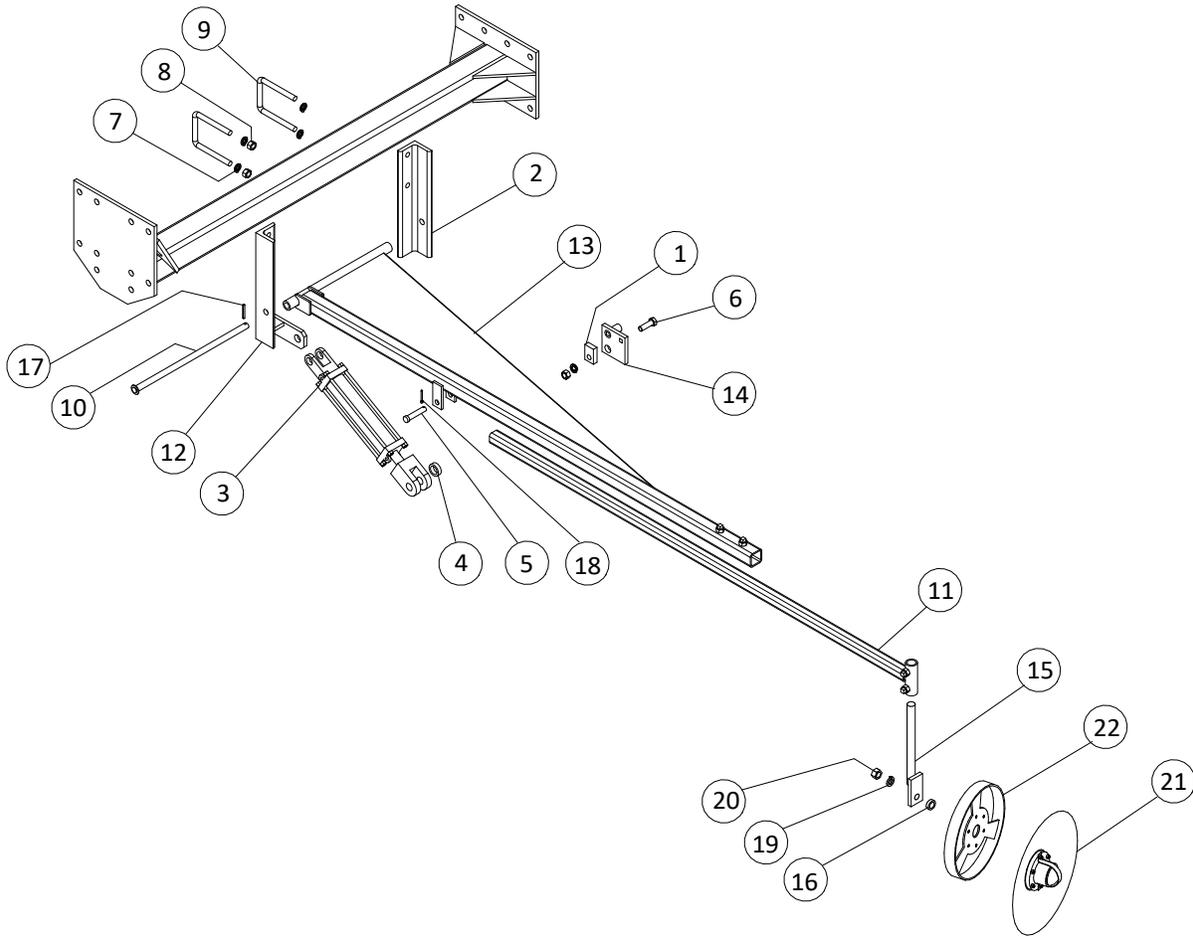
Ref.	Part No.	Description
1	356928	Stop Flat
2	356953	Right Angle
-	356952	Left Angle
3	95171	Hydraulic Cylinder, 2" x 8"
4	356929	Cylinder Spacer Bushing
5	20896	Clevis Pin, 5/8" x 3"
6	20065	Bolt, 5/8" x 2"
7	20506	Lock Washer, 5/8
8	20406	Nut, 5/8"
9	21009	U-Bolt, 5/8" X 4" X 5 1/2"
10	356930	4 Row Pivot Pin Weldment
11	366750	Marker Extension Arm 24" Long
12	356950	Right Angle w/ Cylinder Mount

Ref.	Part No.	Description
-	356955	Left Angle w/ Cylinder Mount
13	356935	4 Row Marker Arm Right (Tire Tracks)
-	356920	4 Row Marker Arm Left (Tire Tracks)
14	356940	Cylinder Pivot Weldment Right
-	356925	Cylinder Pivot Weldment Left
15	356440	Marker Disc Mount
16	211663	3/8" Bushing Spacer (Marker)
17	20967	Roll Pin, 1/4" x 2"
18	20826	Cotter Pin, 3/16" x 1-1/2"
19	20507	Lock Washer, 3/4"
20	20407	Nut, 3/4"
21	211845	Disc with Hub (Double Bearing)
22	211850	Marker Depth Guide Wheel

Ref.	Part No.	Description
1	95171	Hydraulic Cylinder, 2" x 8" 3/4"
2	95169	3/4 ORB x 9/16 JIC Elbow
3	95167	3/4 -16 ORB x 9/16 JIC Adapter
4	95169	3/4 ORB x 9/16 JIC Elbow
5	95168	Hose End, -6 Straight Female
6	83006	Hose End, -4 to -8 Straight Female

Ref.	Part No.	Description
7	96289	Male Tip 3/4" Pioneer End
8	95160	9/16 JIC Tee
9	96048	Sequence Valve
NS	96704	Grip, Red Hydraulic Hose Pressure
NS	96705	Grip, Red Hydraulic Hose Return
NS	83029	Restrictor, 06 MJ 08 MB .062

6 Row Marker



**6 Row Marker Package
#3571**

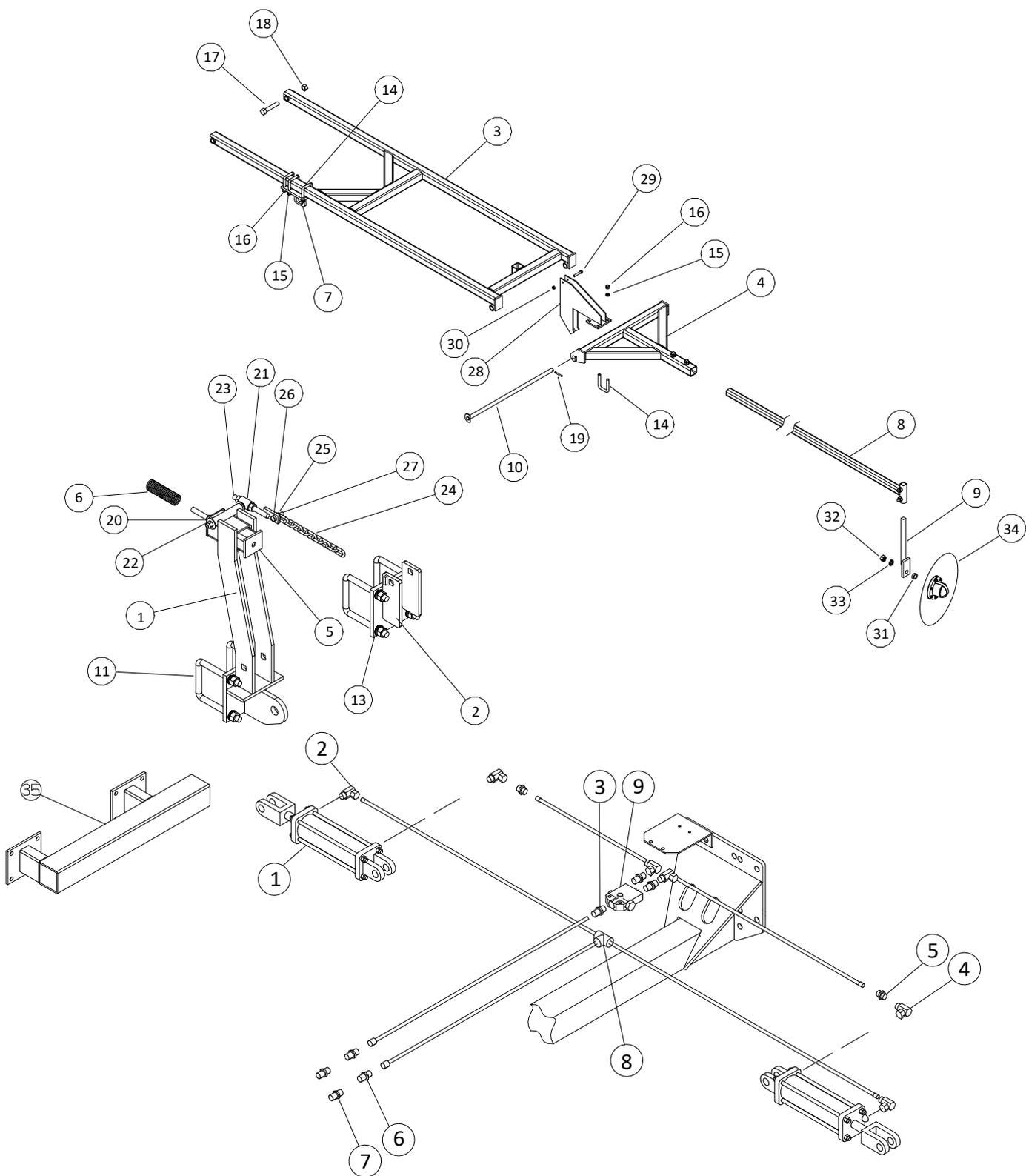
Ref.	Part No.	Description
1	356928	Stop Flat
2	356953	Right Angle Paint Only
-	356952	Left Angle Paint Only
3	95171	Hydraulic Cylinder, 2" x 8"
4	356929	Cylinder Spacer Bushing
5	20896	Clevis Pin, 5/8" x 3"
6	20065	Bolt, 5/8" x 2"
7	20506	Lock Washer, 5/8"
8	20406	Nut, 5/8"
9	21009	U-Bolt, 5/8" X 4" X 5 1/2"
10	356430	Marker Pivot Pin
11	356420	Marker Extension Arm (Long)
12	356950	Right Angle w/cylinder mount

Ref.	Part No.	Description
-	356955	Left Angle w/cylinder mount
13	356970	6 Row Marker Arm Right
-	356975	6 Row Marker Arm Left
14	356940	Cylinder Pivot Weldment Right
-	356925	Cylinder Pivot Weldment Left
15	356440	Marker Disc Mount
16	211663	3/8" Bushing Spacer (Marker)
17	20967	Roll Pin, 1/4" x 2"
18	20826	Cotter Pin, 3/16" x 1-1/2"
19	20507	Lock Washer, 3/4"
20	20407	Nut, 3/4"
21	211845	Disc with Hub (Double Bearing)
22	211850	Marker Depth Guide Wheel

Ref.	Part No.	Description
1	95171	Hydraulic Cylinder, 2" x 8" 3/4"
2	95169	3/4 ORB x 9/16 JIC Elbow
3	95167	3/4 -16 ORB x 9/16 JIC Adapter
4	95169	3/4 ORB x 9/16 JIC Elbow
5	95168	Hose End, -6 Straight Female
6	83006	Hose End, -4 to -8 Straight Female

Ref.	Part No.	Description
7	96289	Male Tip 3/4" Pioneer End
8	95160	9/16" JIC Tee
9	96048	Sequence Valve
NS	96704	Grip, Red Hydraulic Hose Pressure
NS	96705	Grip, Red Hydraulic Hose Return
NS	83029	Restrictor, 06 MJ 08 MB .062

Bi-Fold Marker



Bi-Fold Marker Package
#3572 – 6 Row Bi-Fold Marker Package
#3591 - 8-Row Bi-Fold Marker Package

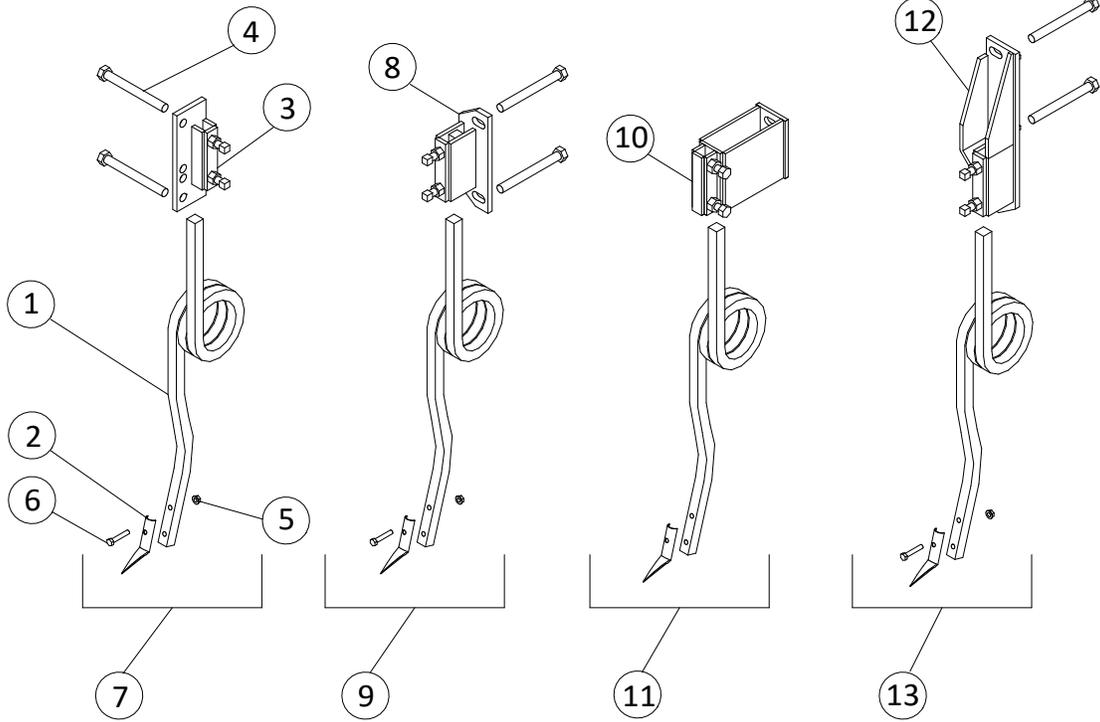
Ref.	Part No.	Description
1	380240	8 Row Upright Weldment Long
2	380270	8 Row Upright Weldment Short
3	380180	8 Row Inner Frame Weldment
4	380280	Bi-Fold Outer Frame Weldment
5	380255	Inner Slide Tube Weldment
6	94016	C-892 Spring - Bi-Fold Marker
7	356160	8R Marker Cylinder Mount
8	356420	Marker Extension Arm (Long)
9	356440	Marker Disc Mount
10	368115	Bi-Fold Pivot Pin Weldment
11	21009	U-Bolt, 5/8" X 4" X 5 1/2"
12	20506	Lock Washer, 5/8"
13	20406	Nut, 5/8"
14	21000	1/2" X 2" X 3" U-Bolt
15	20504	Lock Washer, 1/2"
16	20404	Nut, 1/2"
17	20086	Bolt, 3/4 X 4"
18	20428	Center Lock Nut, 3/4"

Ref.	Part No.	Description
19	20967	1/4" X 2" Spring Lock Pin Plain
20	20514	Flat Washer, 7/16"
21	380250	Marker Pivot Weldment
22	20424	Centerlock Nut, 7/16"
23	380265	Chain Adjustment Weldment
24	368105	Bi-Fold Marker Chain
25	20513	Washer, 3/8"
26	20120	Bolt, 3/8" x 1-1/4"
27	20402	Nut, 3/8"
28	380260	8 Row Cam Weldment '04
29	20031	Bolt, 3/8 x 2"
30	20423	Centerlock Nut, 3/8"
31	211663	Bushing Spacer, 3/8"
32	20407	Nut, 3/4"
33	20507	Lock Washer, 3/4"
34	211845	Disc with Hub (Double Bearing)
35	356980	Marker Offset Weldment
19	20967	Spring Lock Pin Plain, 1/4 X 2"

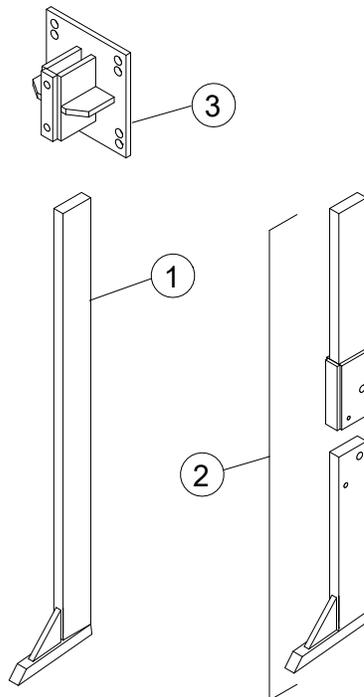
Ref.	Part No.	Description
1	95171	2" x 8" 3/4" ORB Port Cylinder
2	95169	3/4 ORB x 9/16 JIC Elbow
3	95167	3/4 -16 ORB x 9/16 JIC Adapter
4	95166	ORB Elbow Restrictor
5	95165	3/8 Pipe Thread Adapter 37°

Ref.	Part No.	Description
6	95170	9/16 JIC x 1/2 MPT Adapter
7	95012	Male Tip 1/2" Pioneer End
8	95160	9/16 JIC Tee
9	96048	Sequence Valve
6	95170	9/16 JIC x 1/2 MPT Adapter

1" Coil Shanks



Chisel Markers



1" Coil Shanks

Ref.	Part No.	Description
1	96153	1" Coil Shank
2	90108	Alloy Point with Rubber
3	223410	1" Coil Shank Clamp
4	20090	Bolt, 3/4" X 7"
5	20471	Flange Nut, 3/8"
6	20031	Bolt, 3/8" X 2"
7	223400	Coil Shank Assembly

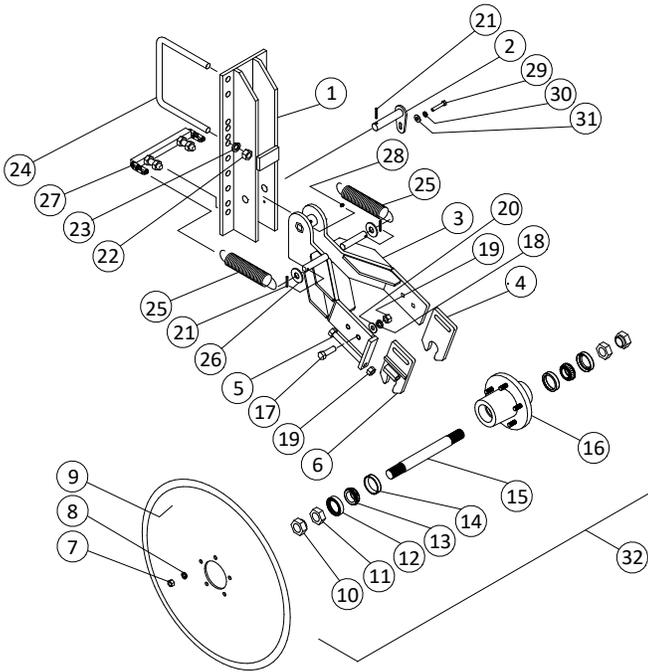
Ref.	Part No.	Description
8	223420	Coil Shank Clamp Long
9	223480	1" Coil Shank Long Clamp Assembly
10	357960	1" Coil Shank Clamp
11	357935	Coil Shank Assy for Fertilizer
12	223430	Center Coil Shank Mount Weldment*
13	223485	1" Coil Shank Center Assembly*

*For Rear Toolbar

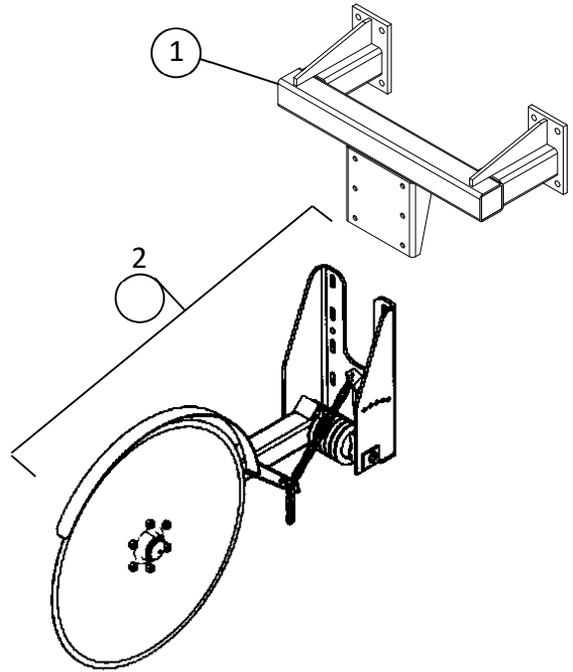
Chisel Markers

Ref.	Part No.	Description
1	222100	Chisel Marker Shank
2	222120	Chisel Marker Trip Shank
3	222200	Chisel Marker Clamp Mount

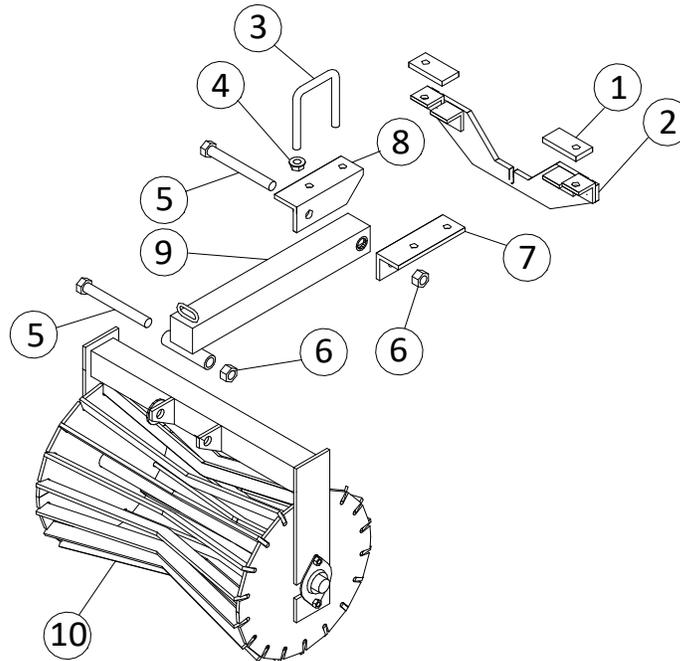
**Stabilizer Disc Assembly
#229490**



**Sunco Stabilizer
#355865**



**Packer Assembly for Rear Ripper
#358900**



**Stabilizer Disc Assembly Spring Loaded
#229490**

Ref.	Part No.	Description
1	229555	Cushion Disc Mount
2	229505	Stabilizer Pivot Pin
3	229550	Cushion Disc Frame Weldment
4	229535	Disc Hub Mount
5	229508	Adjuster Rod
6	229530	Disc Hub Mount W/Nut
7	20405	Nut, 1/2" NF
8	20504	Lock Washer, 1/2"
9	90030	27" Flat Coultter Blade
10	127660	Shoulder Nut, 1 1/4"
11	20461	Jam Nut, 1 1/4" NF
12	95086	SE 13 Oil Seal Cr
13	95094	Cone Bearing
14	95093	Bearing Cup
15	90004	Spindle Double Yoke 1 3/8" X 11"
16	90003	Double Yoke Hub W/Cup

Ref.	Part No.	Description
17	90065	Bolt, 5/8" X 2"
18	20506	Lock Washer, 5/8"
19	20406	Nut, 5/8"
20	20536	Washer, 5/8"
21	20965	Roll Pin, 1/4" X 1 1/2"
22	20407	Nut, 3/4"
23	20507	Lock Washer, 3/4"
24	21018	U-Bolt, 3/4" X 7" X 6 1/2"
25	21508	Spring, Disc Opener
26	21335	Washer, 10 Gauge 7/8"
27	229540	Spring Mount
28	95035	Grease Zerk, 1/8" NPT
29	20029	Bolt, 3/8" X 1"
30	80004	Lock Washer, 3/8"
31	20513	Washer, 3/8"
32	127600	Hub w/ Spindle Assembly

**Sunco Stabilizer Disc Assembly
#355865**

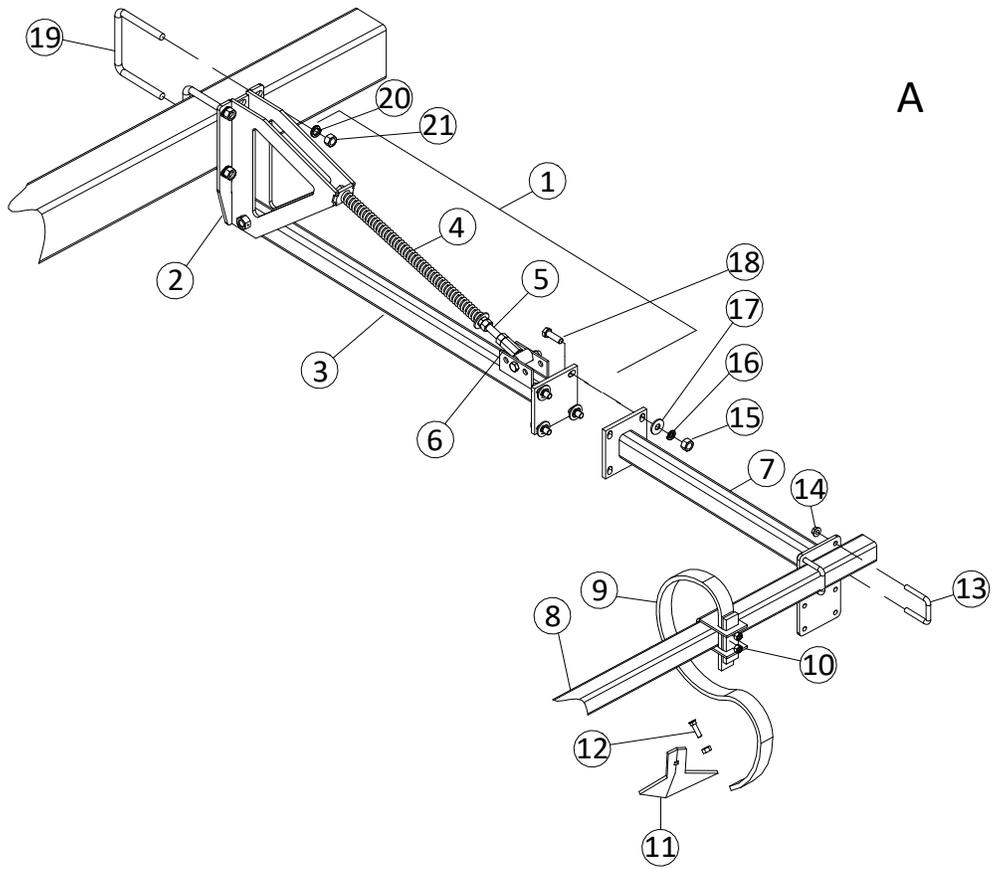
Ref.	Part No.	Description
1	355860	Mount, Sunco Stabilizer
2	96248	Sunco Stabilizer

**Packer Assembly For Rear Ripper
#358900**

Ref.	Part No.	Description
1	358905	S-Tine Packer Mount Tab
2	358910	S-Tine Packer Chain Mount
3	21002	U-Bolt, 1/2" X 3" X 4"
4	20505	Flange Nut, 1/2"
5	20072	Bolt, 5/8" X 5 1/2"
6	20427	Lock Nut, 5/8"

Ref.	Part No.	Description
7	358920	Mount Angle Right
8	358925	Mount Angle Right
9	358910	S-Tine Packer Chain Mount
10	358930	Packer Mount Arm
-	357100	Packer Wheel/Frame Assembly Only

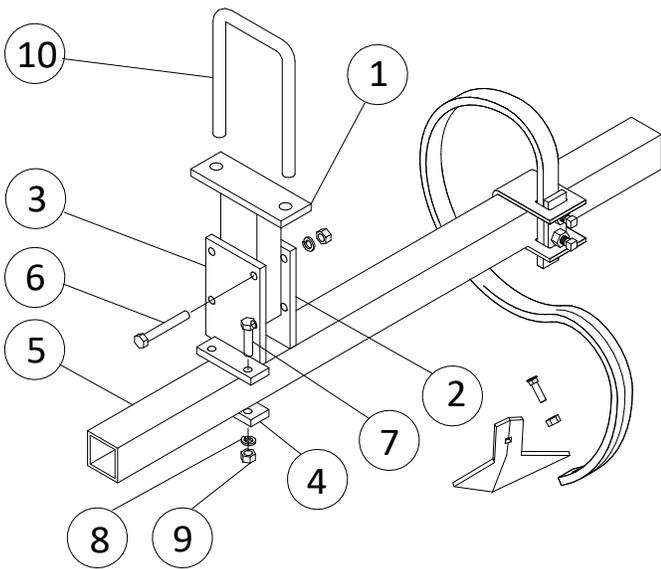
Rear Ripper



A

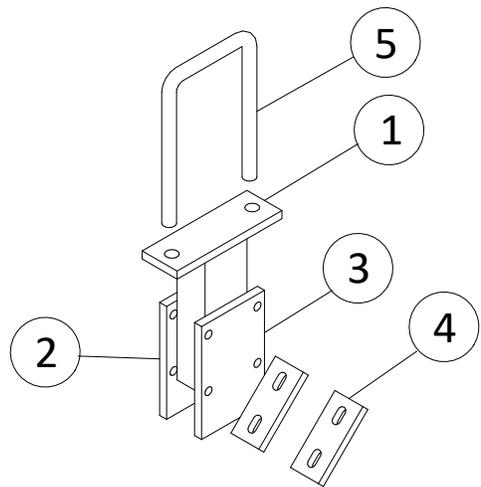
Drop Tube Ripper

B



45° Ripper

C



Ripper Assemblies

Ref.	Part No.	Description
1	355430	Ripper Arm Sub Assembly - 48" long
2	355735	Ripper Angle Weldment
3	355390	Ripper Arm Weldment 48" long
4	501051	Compression Spring
5	501050	Linkage Adjustment Bolt
6	355447	Coupler Weldment
7	355415	30" Ripper Extension
-	355410	19" Ripper Extension
-	355400	11" Ripper Extension
8	355426*	Rear Ripper Cross Tube 24 ft.
9	212115	Vertical S-Tine
10	201035	Vertical Clamp

Ref.	Part No.	Description
11	212500	7" Shovels
12	213800	S-Tine Shovel Bolt Gr. 8
13	21038	U-Bolt, 1/2" x 2 1/2" x 3 1/4"
14	20505	Flange Nut, 1/2"
15	20406	Nut, 5/8"
16	20506	Lock Washer, 5/8"
17	20536	Washer, 5/8"
18	20065	Bolt, 5/8" x 2"
19	21018	U-Bolt, 3/4" x 7" x 6 1/2"
20	20507	Lock Washer, 3/4"
21	20407	Nut, 3/4"

*Specify length when ordering

A

Drop tube Ripper

Ref.	Part No.	Description
1	355475	Drop Tube Weldment
2	355478	Drop Tube Backing Plate
-	355559	Lower Bar Mount Dual (Optional)
3	355470	Lower Bar Mount
4	355479	Backing Plate (2 1/2" Tube)

Ref.	Part No.	Description
5	355426*	Rear Ripper Cross Tube 24 ft.
6	20057	Bolt, 1/2" x 3 1/2"
7	20059	Bolt, 1/2" x 4 1/2"
8	20504	Washer, 1/2" Lock
9	20404	Nut, 1/2"

*Specify length when ordering

B

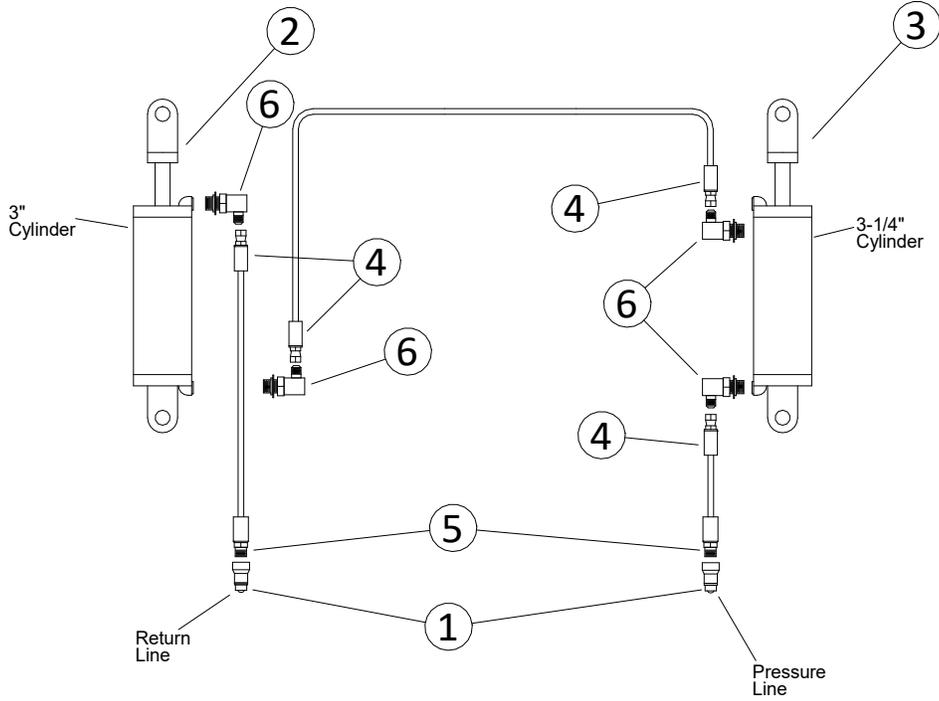
45° Ripper

Ref.	Part No.	Description
1	355475	Drop Tube Weldment
2	355478	Drop Tube Backing Plate
3	355490	Lower Bar Mount Weldment 45°
4	355495	Backing Plate 45°

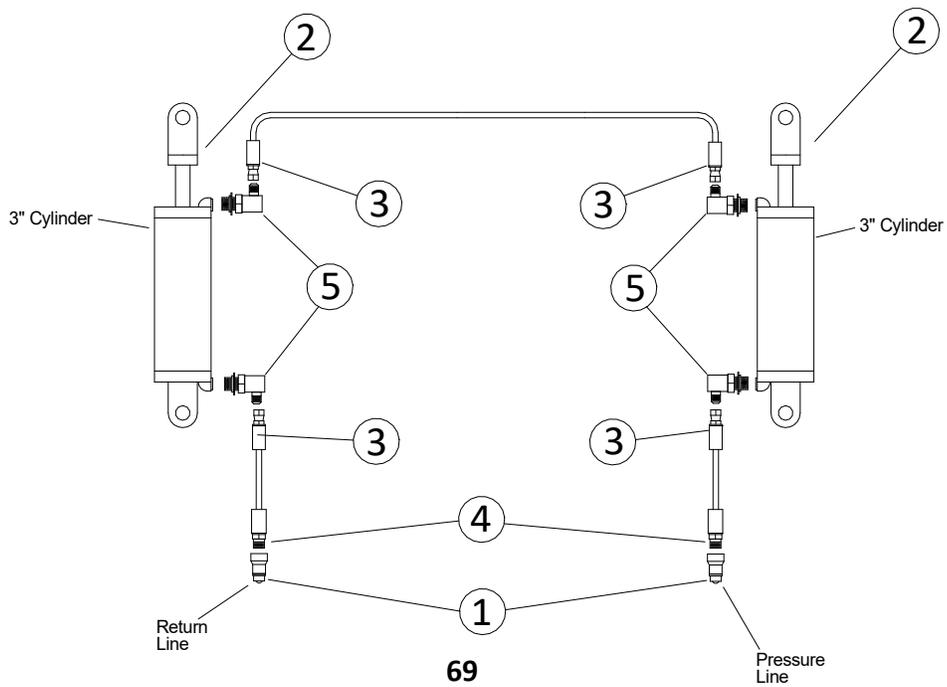
C

Rear Steer Hydraulics
 (Not Plumbed at Factory Due to Individual GPS System Requirements)

6 & 8 Row Rear Steer Hydraulics



4 Row Rear Steer Hydraulics



Rear Steer Hydraulics

(Not Plumbed at Factory Due to Individual GPS System Requirements)

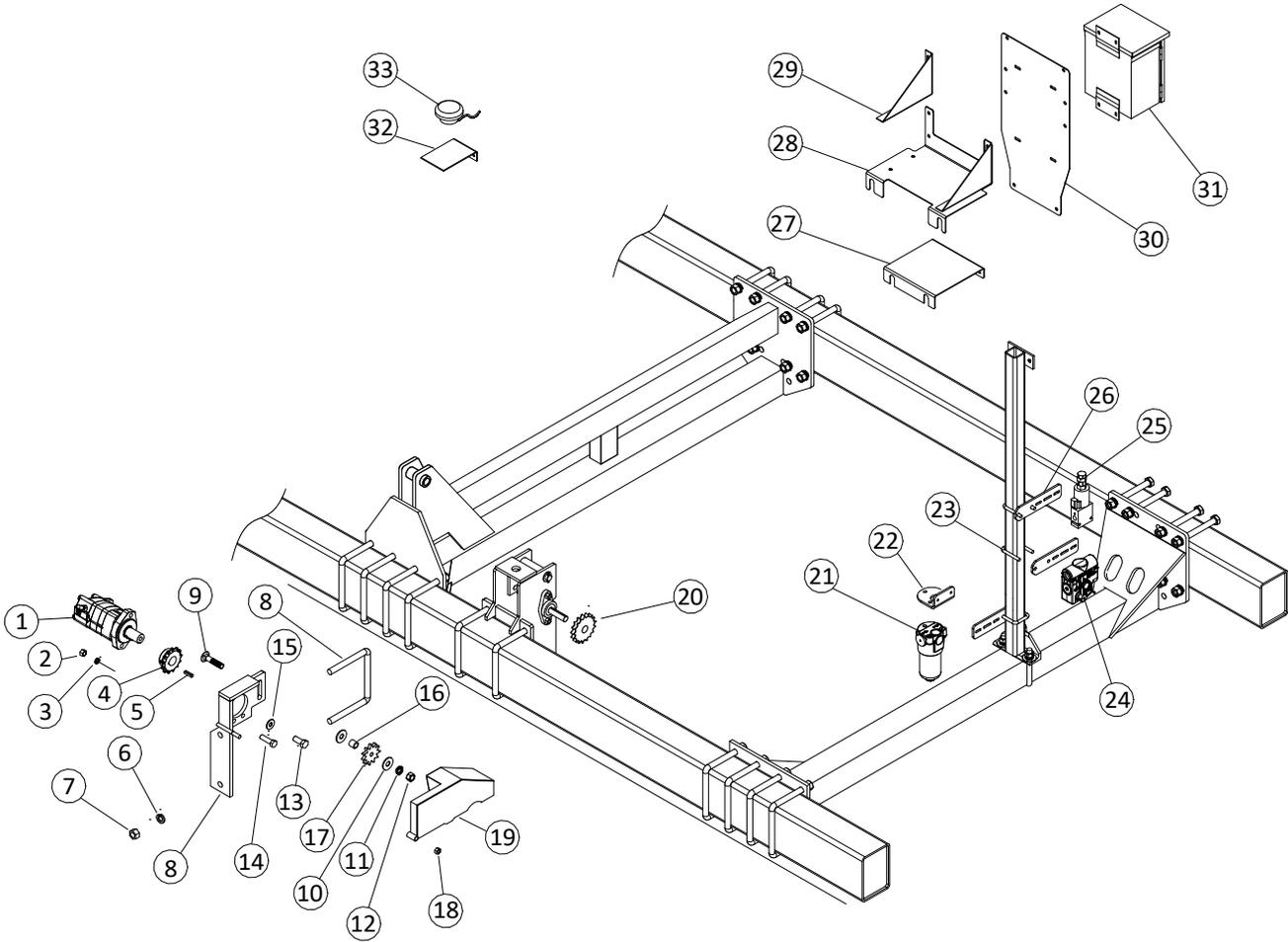
6 & 8 Row Rear Steer Hydraulics

Ref.	Part No.	Description
1	96289	Universal Male Tip ½" Pioneer End
2	95447	Hydraulic Cylinder, 3x8 Single Rephasing
3	95448	Hydraulic Cylinder, 3-1/4x8 Single Rephasing
4	95275	Hose End, -10 to -8 Straight Female
5	95277	Hose End, -8 to -8 Straight Female
6	96288	½" Orb x 5/8 JIC Elbow

4 Row Rear Steer Hydraulics

Ref.	Part No.	Description
1	96289	Universal Male Tip ½" Pioneer End
2	95380	Hydraulic Cylinder, 3x8 Dual Rephasing
3	95275	Hose End, -10 to -8 Straight Female
4	95277	Hose End, -8 to -8 Straight Female
5	96288	½" Orb x 5/8 JIC Elbow

Hydraulic Drive Mounting Hardware (Harriston Drive)

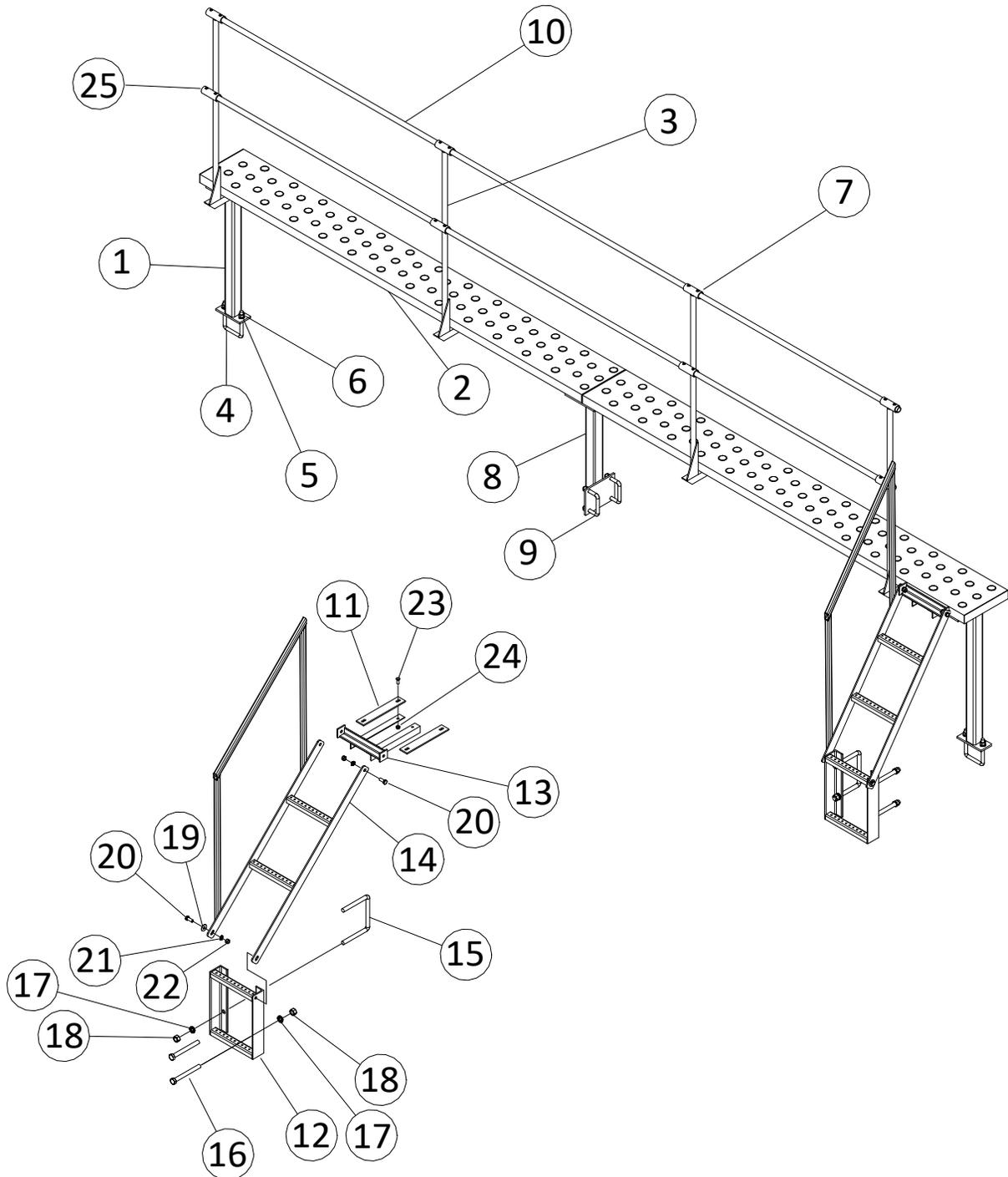


Hydraulic Drive Mounting Hardware (Harriston Drive)

Ref.	Part No.	Description
1	95375	Hydraulic Motor w/ Encoder
2	20404	Nut, 1/2"
3	20504	Lock Washer, 1/2"
4	96146	6013 x 1-1/4" Hardened Sprocket
5	355217	Step Key, 5/16" to 1/4"
6	20507	Lock Washer, 3/4"
7	20407	Nut, 3/4"
8	355640	Hyd. Motor Mount Weldment
9	20769	Bolt, 5/8" x 3" Carriage
10	20536	Washer, 5/8"
11	20506	Lock Washer, 5/8"
12	20406	Nut, 5/8"
13	20127	Bolt, 5/8" x 1-1/2"
14	20053	Bolt, 1/2" x 2"
15	21312	Washer, 5/8"
16	355633	Idler Spacer
17	96023	6011E Idler Sprocket 5/8"
18	20424	Center Lock Nut, 7/16"

Ref.	Part No.	Description
19	355645	Hydraulic Drive Shield Weldment
20	96071	6021 x 1" Hardened Sprocket
21	95460	Hydraulic Oil Filter
22	422304	Mount, Hydraulic Oil Filter
23	21024	U-Bolt, 3/8x2x3
24	95523	Flow Control Valve, 0-4 GPM
25	97234	PWM Valve, 0-8 GPM
26	422302	Mount, Hydraulic Valve
27	404387	Mount, Control System Bottom
28	404394	Mount, Control System Top
29	404389	Gusset, Control System
30	404388	Panel, Control System
31	390210	Electrical Box, 12V to 24V Inverter
32	403782	Mount, GPS Velocity Sensor
33	97127	GPS Velocity Sensor
NS	355216	Chain, Row Unit Drive
NS	95485	Encoder, Speed Pickup
NS	400084	Wire Harness, Motor Speed Pickup

Front Seed Tank Platform



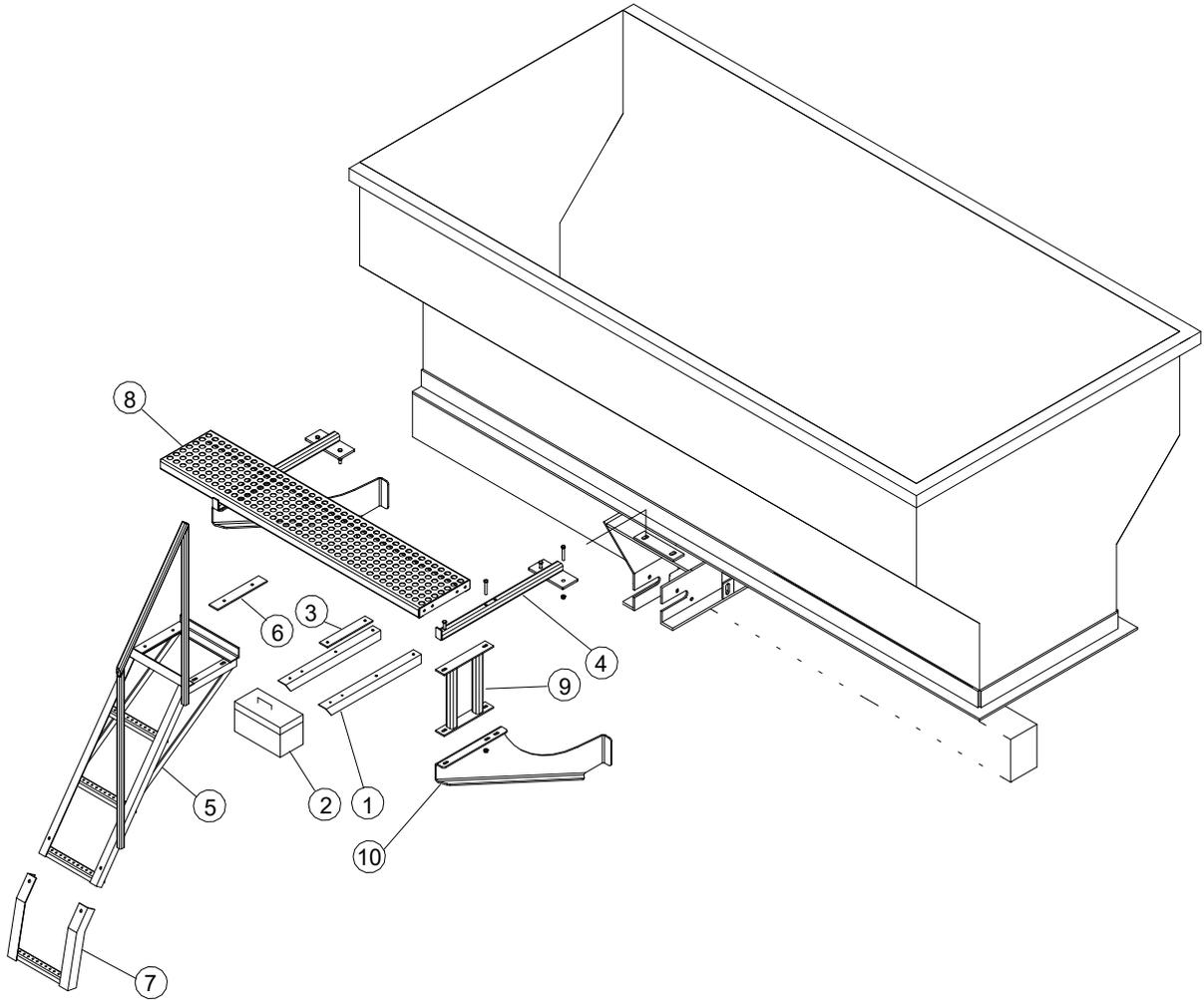
Front Seed Tank Platform
#353383 – 4 Row Platform
#353381 – 6 Row Platform
#353382 – 8 Row Platform

Ref.	Part No.	Description
1	355625	Platform Mount
2	355762*	Morten Channel w/ Endcap 8R
-	355761*	Morten Channel w/ Endcap 6R
-	355760*	Morten Channel w/ Endcap 4R
3	355700	Handrail Upright
4	21009	U-Bolt, 5/8" x 4" x 5-1/2"
5	20506	Lock Washer, 5/8"
6	20406	Nut, 5/8"
7	96407	Handrail Connector, Tee
8	353345	Center Catwalk Support
9	21039	U-Bolt, 5/8" x 4" x 3-1/2"
10	355705*	Handrail Pipe
11	353325	Platform Strap
12	353360	Step, Lower Weldment

Ref.	Part No.	Description
13	353370	Step, Upper Weldment
14	353350	Front Ladder Regular Tank
-	353390	Front Ladder 18" Wider Tank
15	21018	U-Bolt, 3/4" x 7" x 6-1/2"
16	20090	Bolt, 3/4" x 7"
17	20507	Lock Washer, 3/4"
18	20407	Nut, 3/4"
19	20515	Washer, 1/2"
20	20118	Bolt, 1/2" x 1- 1/4"
21	20504	Lock Washer, 1/2"
22	20404	Nut, 1/2"
23	20029	Bolt, 3/8" x 1"
24	20471	Flange Nut, 3/8"
25	96408	Handrail Connector, Offset Cross

*Specify length when ordering

Rear Seed Tank Platform

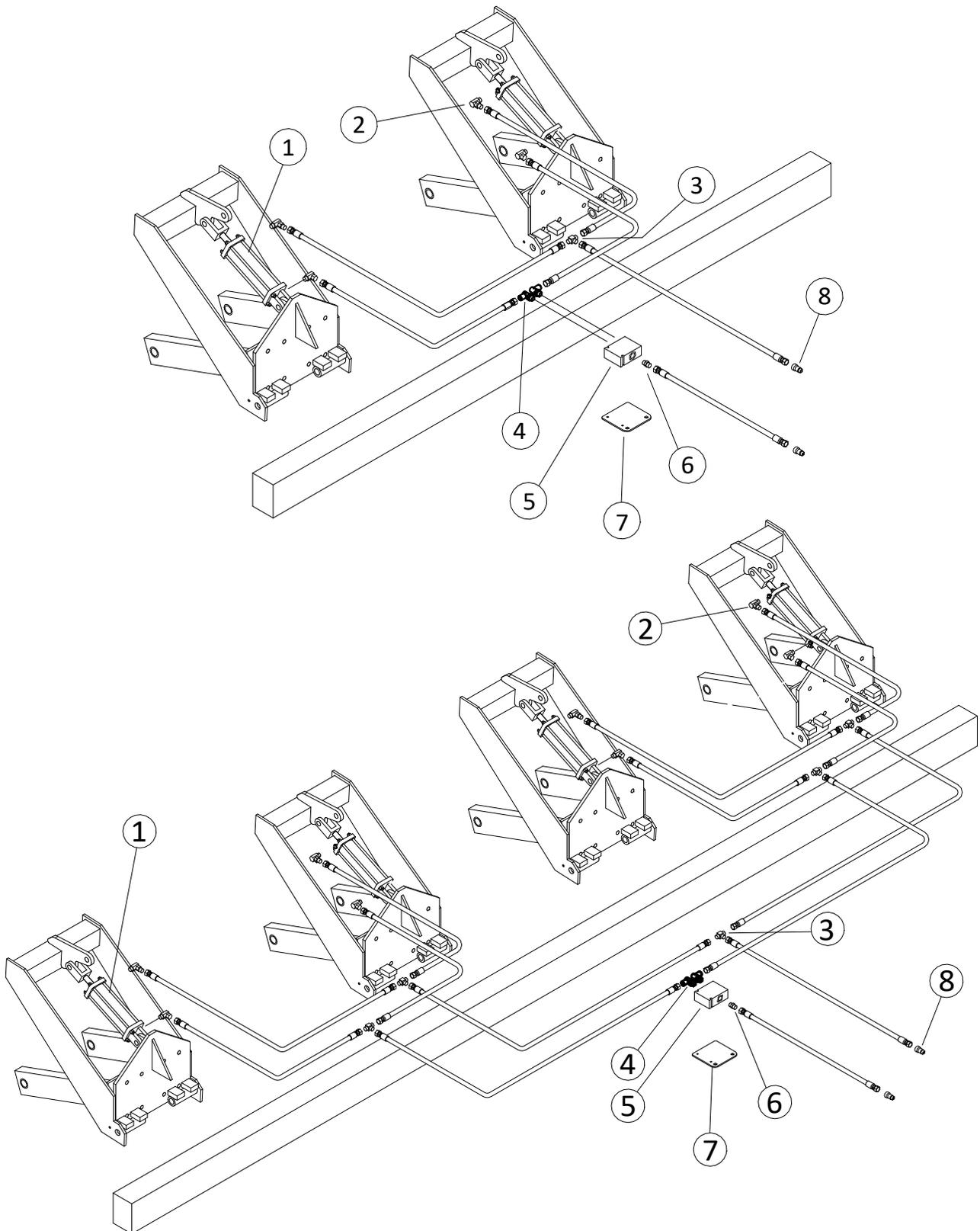


Rear Seed Tank Platform
#355604 – 4 Row Rear
#355607 – 6 & 8 Row Rear
#355608 – 6 & 8 Row Full Width Rear

Ref.	Part No.	Description
1	350051	Tool Box Mount
2	350050	Tool Box Package For Planter
3	353325	Platform Strap
4	359426	Platform Mount Bracket
5	356850	Planter Ladder
6	356810	Ladder Hold Down Strap
7	356820	Ladder Extension
8	355758*	Morten Channel w/ Endcap
9	353020	Platform Riser Weldment
10	359427	Brace, Rear Platform

*Specify length when ordering

Rear Lift Hydraulic System



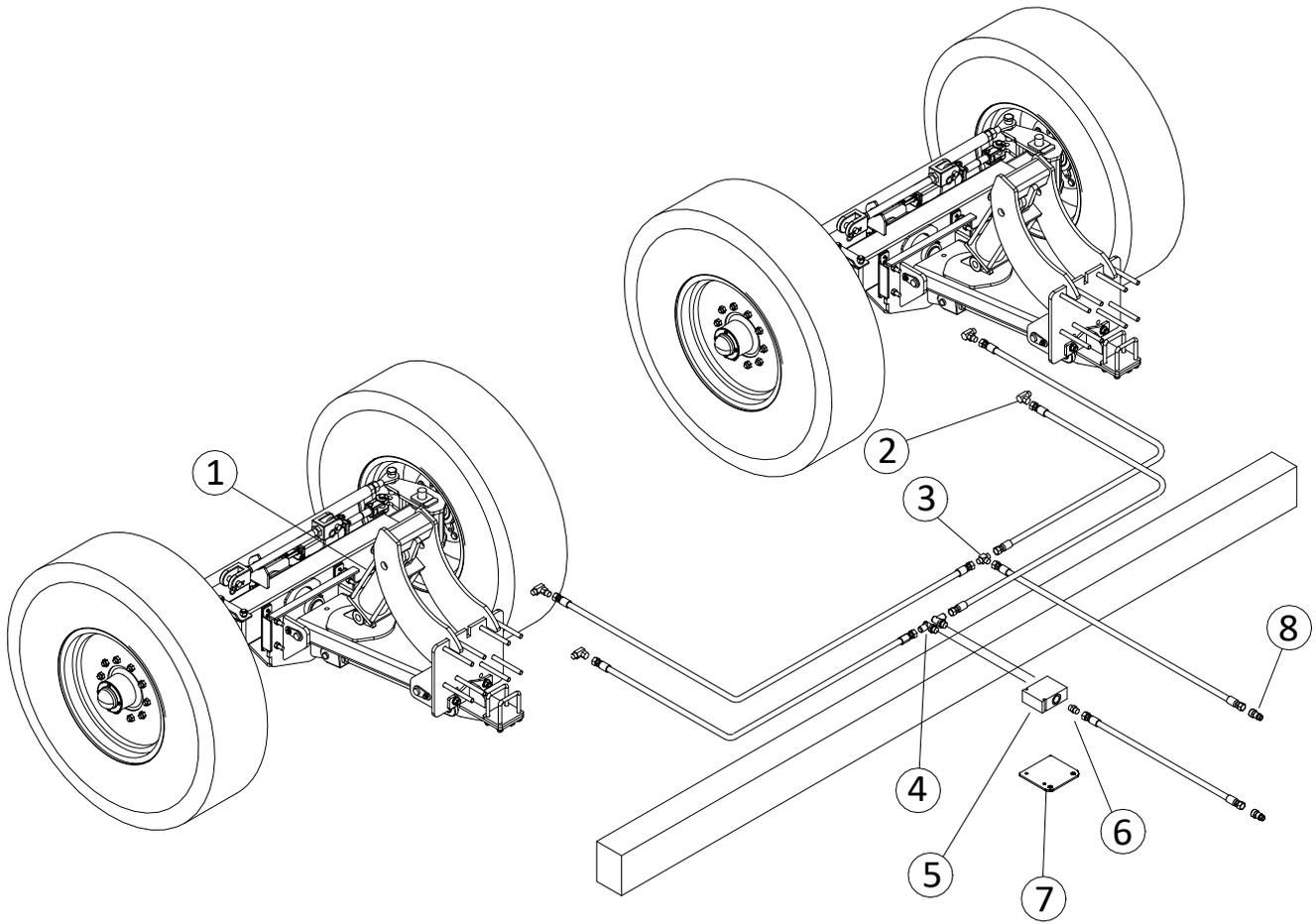
Rear Lift Hydraulic System-4-5 Row

Ref.	Part No.	Description
1	95142	Hydraulic Cylinder, 4"x8" w/ Stop 3000 psi
2	96288	5/8" Male JIC x 1/2 Male O-Ring Boss Elbow
3	95276	Tee, 5/8" Male JIC x 5/8" Male JIC x 5/8" Male JIC
4	95273	5/8" JIC Male x #10 O-Ring Boss Elbow
5	96287	Flow Divider, Hydraulic
6	95314	5/8" JIC Male x #12 O-Ring Boss Male
7	404358	Mount, Flow Divider
NS	96702	Grip, Yellow Hydraulic Hose Pressure
NS	96703	Grip, Yellow Hydraulic Hose Return

Rear Lift Hydraulic System-6-8 Row

Ref.	Part No.	Description
1	95142	Hydraulic Cylinder, 4"x8" w/ Stop 3000 psi
2	96288	5/8" Male JIC x 1/2 Male O-Ring Boss Elbow
3	95276	Tee, 5/8" Male JIC x 5/8" Male JIC x 5/8" Male JIC
4	95273	5/8" JIC Male x #10 O-Ring Boss Elbow
5	96287	Flow Divider, Hydraulic
6	95314	5/8" JIC Male x #12 O-Ring Boss Male
7	404358	Mount, Flow Divider
NS	96702	Grip, Yellow Hydraulic Hose Pressure
NS	96703	Grip, Yellow Hydraulic Hose Return

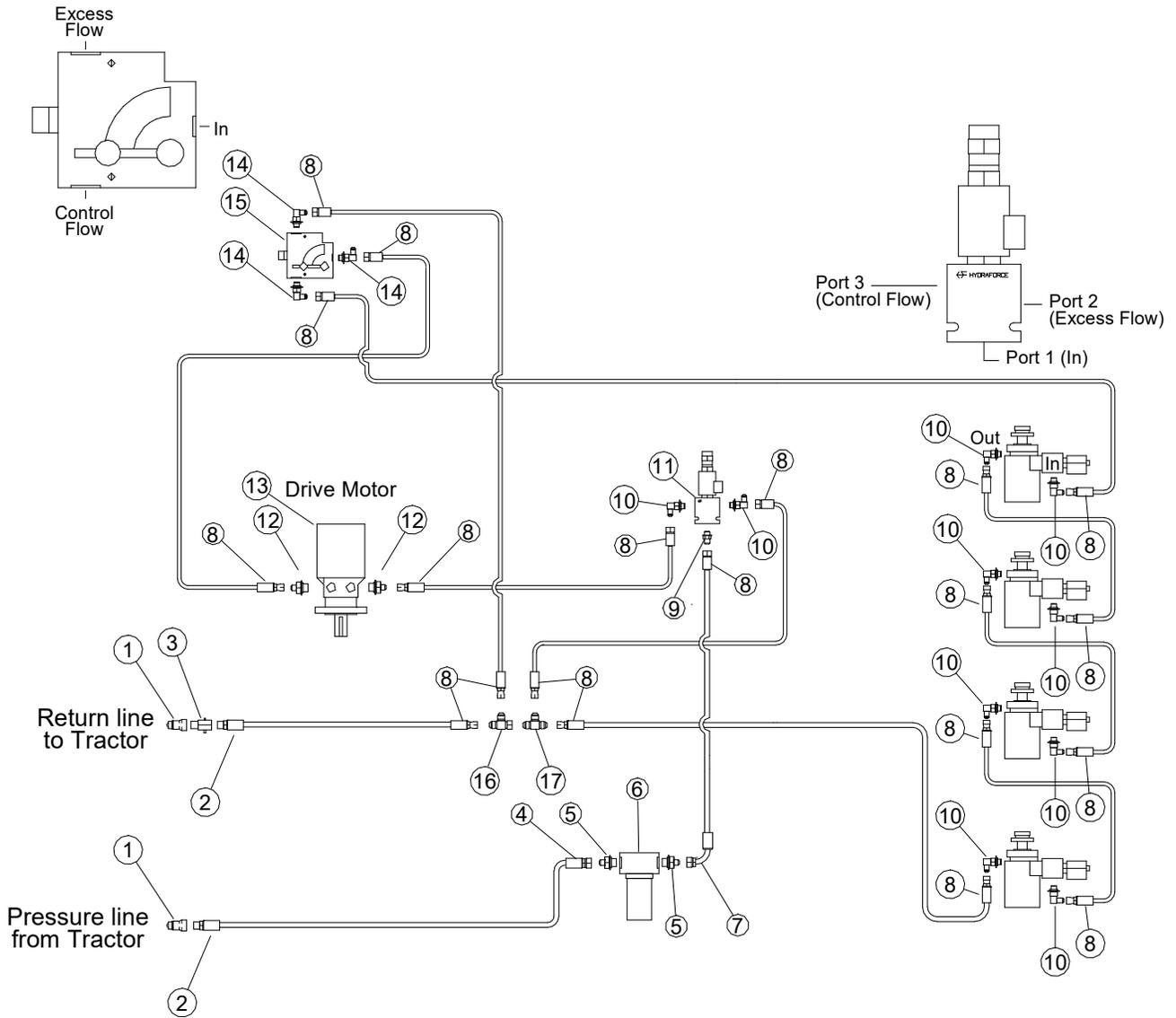
Rear Lift with Rear Steer Hydraulic System



Rear Lift With Rear Steer Hydraulic System

Ref.	Part No.	Description
1	95384	Hydraulic Cylinder, 5" x 10"
NS	96125	Hydraulic Cylinder, 5"x8"
2	96288	5/8" Male JIC x 1/2 Male O-Ring Boss Elbow
3	95276	Tee, 5/8" Male JIC x 5/8" Male JIC x 5/8" Male JIC
4	95273	5/8" JIC Male x #10 O-Ring Boss Elbow
5	96287	Flow Divider, Hydraulic
6	95314	5/8" JIC Male x #12 O-Ring Boss Male
7	404358	Mount, Flow Divider
8	96289	Pioneer Tip, 3/4" Orb
NS	96702	Grip, Yellow Hydraulic Hose Pressure
NS	96703	Grip, Yellow Hydraulic Hose Return

Harriston Drive - Hydraulic System

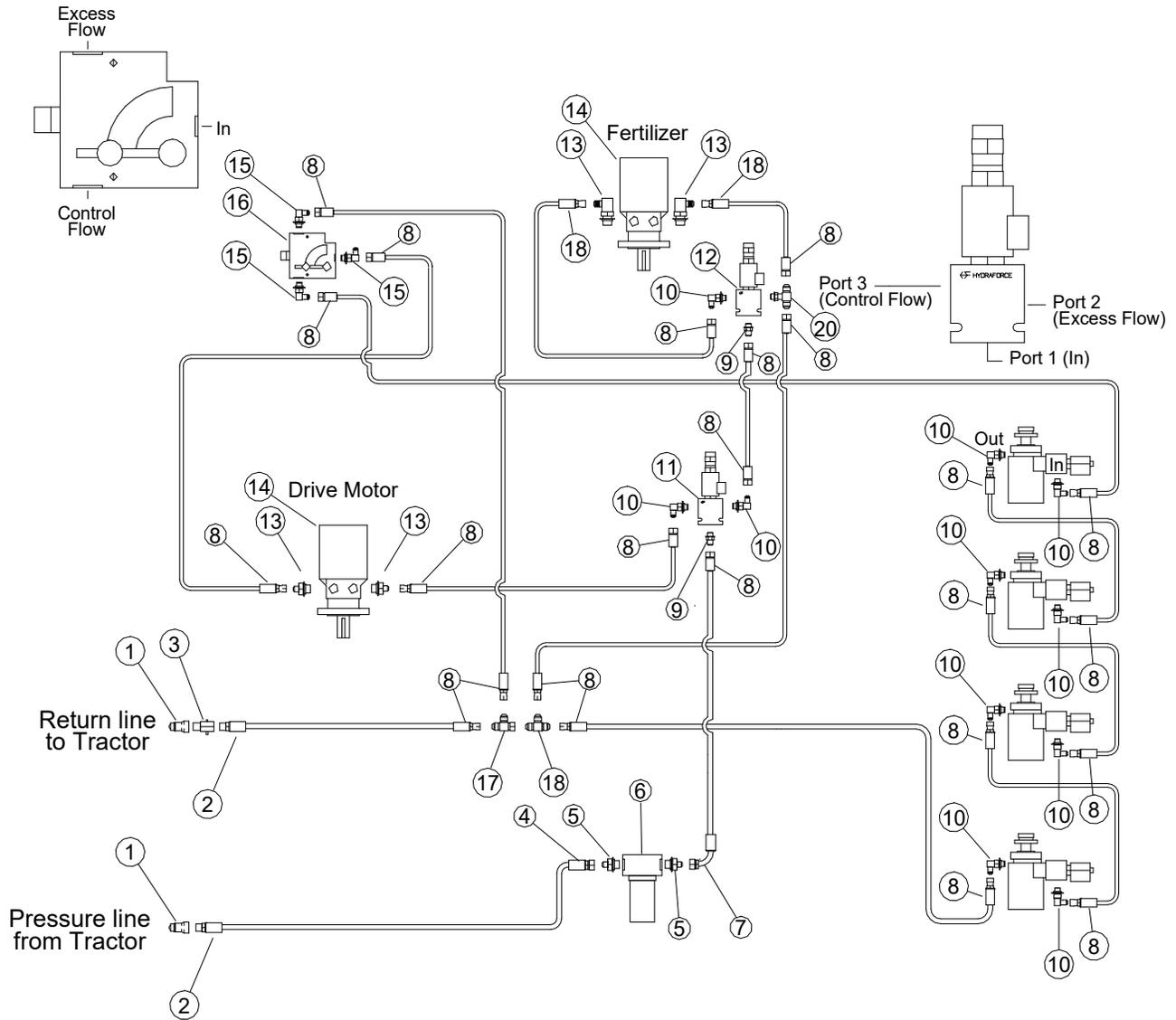


Harriston Drive Hydraulic System (without Fertilizer)

Ref.	Part No.	Description
1	96289	Pioneer Tip, 3/4"
2	83070	Hose End, 3/8" hose to 1/2" ORB
3	95501	Check Valve
4	83017	Hose End, 3/8" hose to 1/2" JIC
5	96214	Fitting, 1/2" JIC to 3/4" ORB
6	95460	Oil Filter
7	95154	Hose End, 3/8" hose to 3/4" JIC Elbow
8	96072	Hose End, 3/8" hose to 3/8" JIC
9	95158	Fitting, 3/8" JIC to 3/8" ORB

Ref.	Part No.	Description
10	95176	Fitting, 3/8" JIC to 3/8" ORB Elbow
11	97234	PWM Valve, 8 GPM
12	95185	Fitting, 7/8" ORB to 9/16 JIC
13	95375	Hydraulic Motor, Planter Drive
14	95279	Fitting, 9/16" JIC to 7/8" ORB Elbow
15	95223	Valve, Flow Control
16	13451-00	Fitting, 3/8" Run Tee
17	95160	Fitting, 3/8" Tee

Harriston Drive With Dry Fertilizer - Hydraulic System

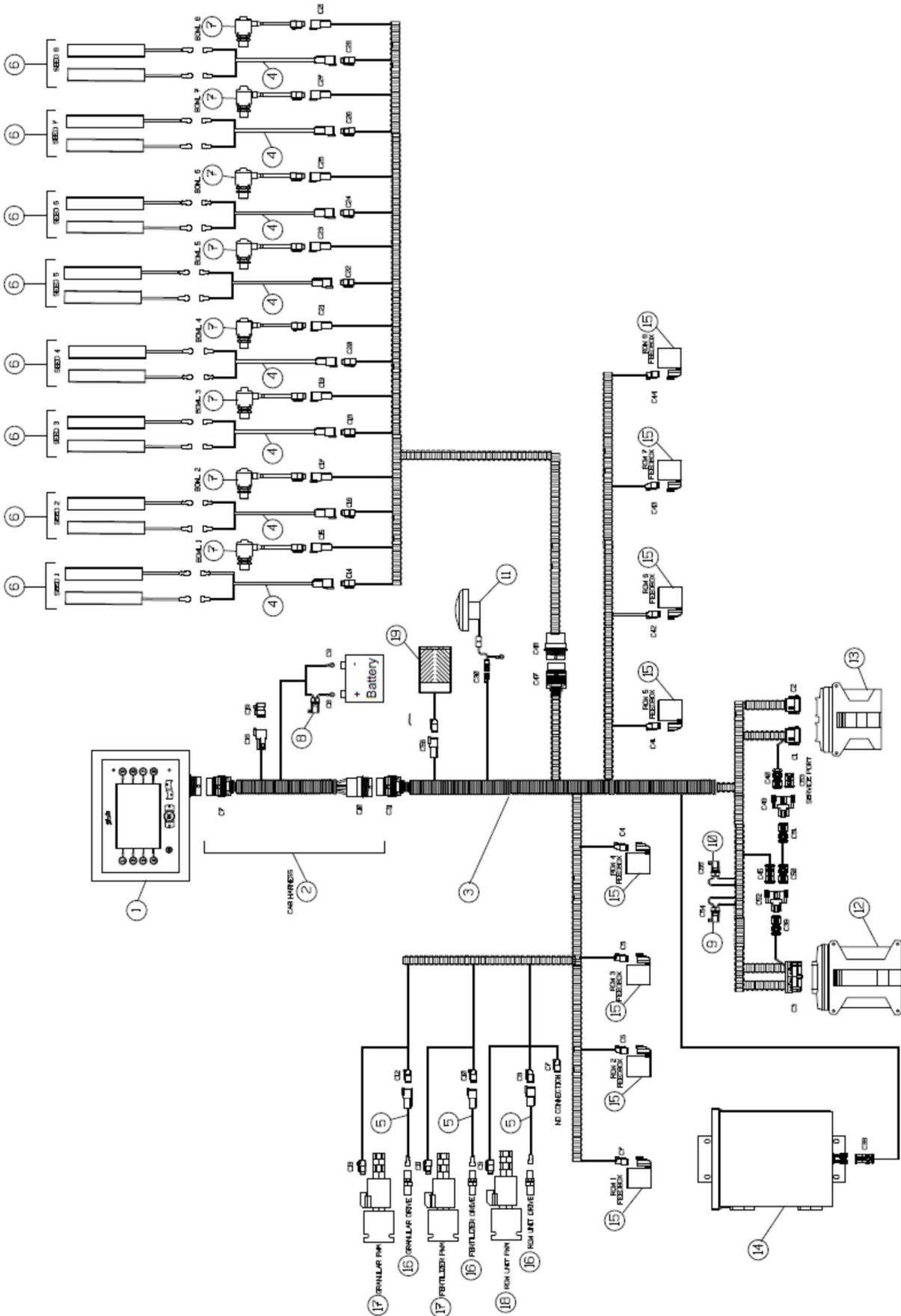


Harriston Drive Hydraulic System (with Fertilizer)

Ref.	Part No.	Description
1	96289	Pioneer Tip, 3/4"
2	83070	Hose End, 3/8" hose to 1/2" ORB
3	95501	Check Valve
4	83017	Hose End, 3/8" hose to 1/2" JIC
5	96214	Fitting, 1/2" JIC to 3/4" ORB
6	95460	Oil Filter
7	95154	Hose End, 3/8" hose to 3/4" JIC Elbow
8	96072	Hose End, 3/8" hose to 3/8" JIC
9	95158	Fitting, 3/8" JIC to 3/8" ORB
10	95176	Fitting, 3/8" JIC to 3/8" ORB Elbow

Ref.	Part No.	Description
11	97234	PWM Valve, 8 GPM
12	97233	PWM Valve, 4 GPM
13	95185	Fitting, 7/8" ORB to 9/16 JIC
14	95375	Hydraulic Motor, Planter Drive
15	95279	Fitting, 9/16" JIC to 7/8" ORB Elbow
16	95223	Valve, Flow Control
17	13451-00	Fitting, 3/8" Run Tee
18	95160	Fitting, 3/8" Tee
19	97286	Hydraulic Motor, Fertilizer Drive
20	83210	Fitting, Tee 3/8" ORB to 3/8" JIC

Harriston Drive Electrical System

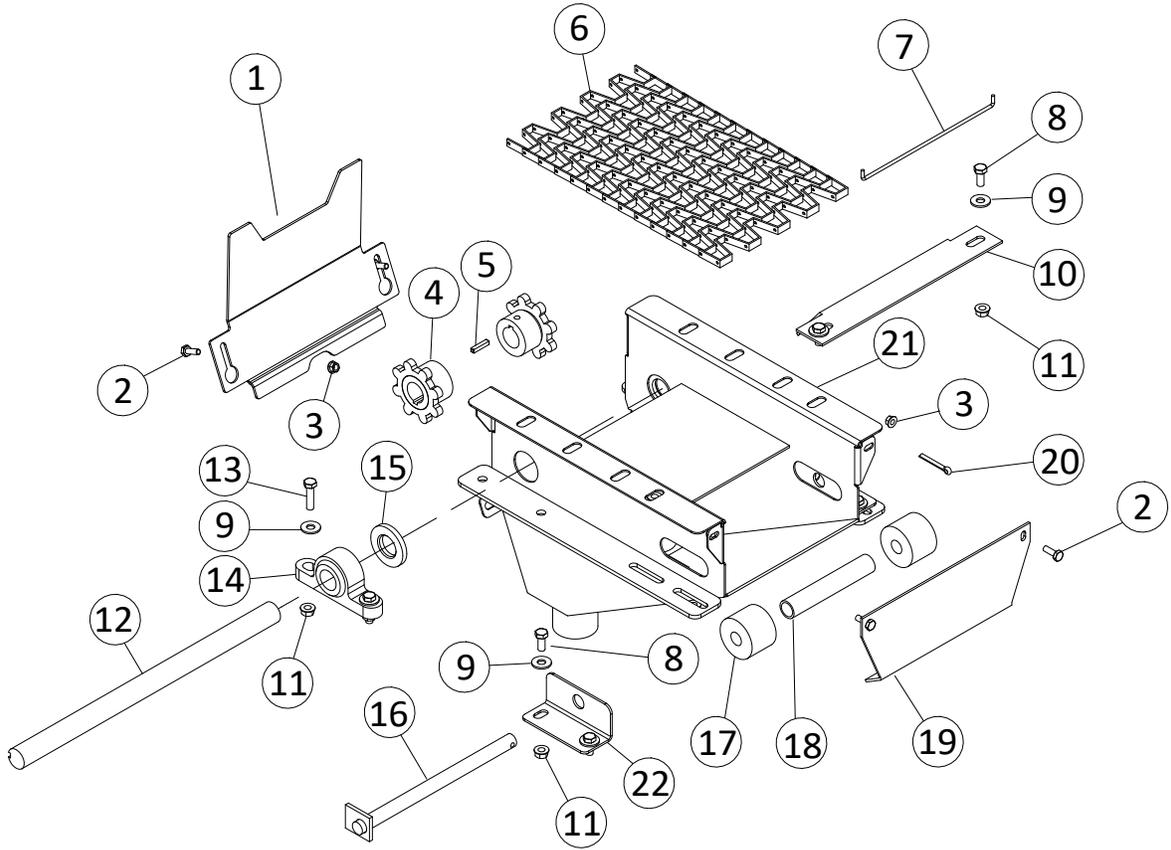


Harriston Drive Electrical System

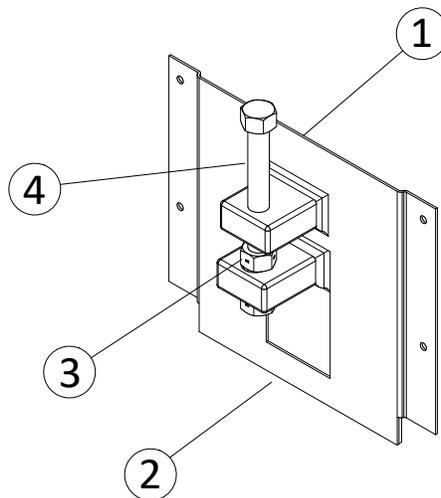
Ref.	Part No.	Description
1	97288	Display, Harriston Drive DP600
2	97294	Harness, Harriston Drive Cab
3	97284	Harness, Harriston Drive Main 4 Row
-	97290	Harness, Harriston Drive Main 6 Row
-	97291	Harness, Harriston Drive Main 8 Row
-	97310	Harness, Harriston Drive Main 10 Row
NS	97299	Harness, Harriston Drive Extension 10'
4	95446	Harness, Seed Sensor
5	400084	Cable, Motor Speed Sensor
6	390193	Seed Sensor, Curtain w/ Glass (Sold as set only)
7	400082	Sensor, Bowl Level
8	95360	Fuse, 80 A
9	97318	Fuse, 25 A

Ref.	Part No.	Description
10	97319	Fuse, 5 A
11	97127	Velocity Sensor, GPS
NS	97110	Ground Radar, Raven (Optional)
12	97293	Controller, 50 Pin
13	97292	Controller, 24 Pin
14	390210	Inverter Box, Assembly (Includes Inverter)
NS	95453	Inverter 12V to 24V, 5A
15	96254	Coil, Feedbox Motor
16	95485	Encoder, Motor Speed
17	97233	PWM Valve, 4 GPM
18	97234	PWM Valve, 8 GPM
19	95505	Foot Switch, Optional
NS	97400	Clutch Harness (With Row Shutoff Option)
NS	97399	Clutch Controller (With Row Shutoff Option)

**Fertilizer Feedbox Assembly
#402190**



**Fertilizer Adjustment Door Assembly
#422315**



**Fertilizer Feedbox Assembly
#402190**

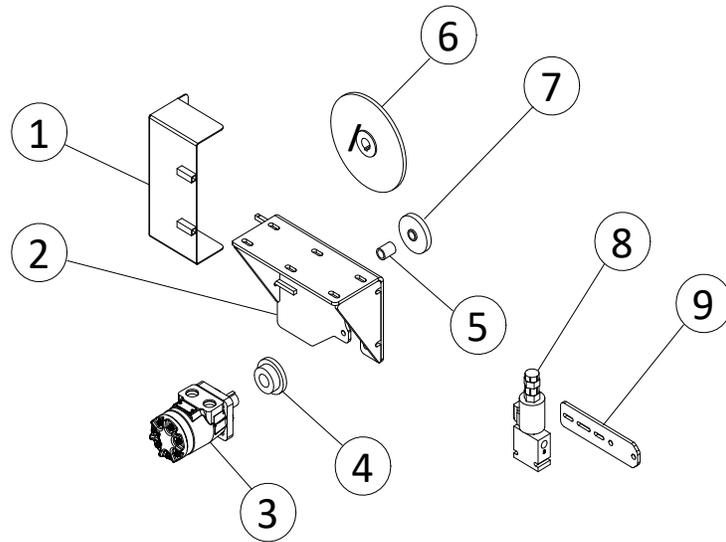
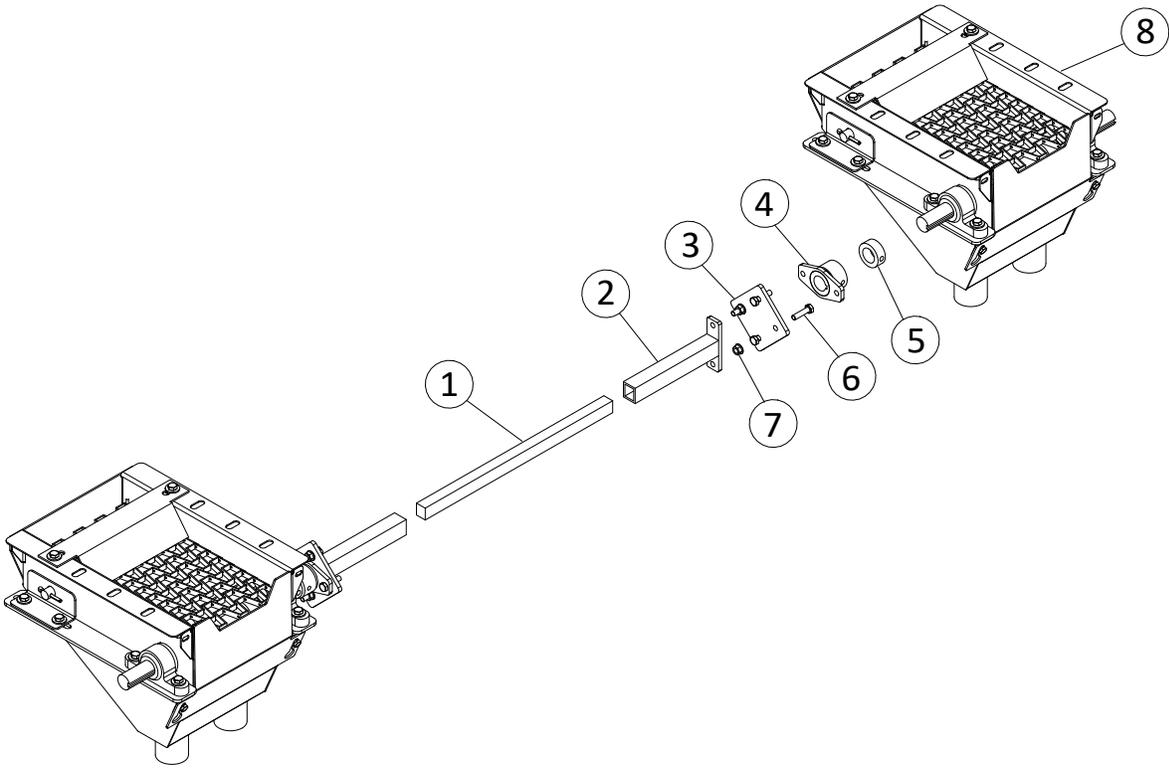
Ref.	Part No.	Description
1	402192	Removable Feedbox Cover
2	20001	Bolt, 1/4" x 3/4"
3	20475	Flange Nut, 1/4"
4	402470	Drive Sprocket, 1" Hub
5	402111	Key, 3/16" x 1"
6	402128	Fertilizer Feedbox Chain
7	97079	Lacing Rod
8	20015	Bolt, 5/16" x 3/4"
9	20512	Washer, 5/16"
10	402162	Rear Deflector
11	20479	Flange Nut, 5/16"

Ref.	Part No.	Description
12	402464	Front Shaft, 1"
13	20027	Bolt, 5/16" x 1-1/4"
14	97625	Igus Bearing, Fertilizer Feedbox 1"
15	402467	2" Roller Washer, UHMW
16	368895	Rear Roller Pin
17	402123	2" Roller, UHMW
18	368898	Rear Spacer Pipe
19	402161	Removable Rear Plate
20	20826	Cotter Pin, 3/16" x 1/2"
21	402465	Feedbox Weldment (1" Bearings)
22	402463	Rear Roller Mount (1")

**Fertilizer Adjustment Door Assembly
#422315**

Ref.	Part No.	Description
1	422305	Fertilizer Door Cover Assembly
2	422310	Fertilizer Door Slide Assembly
3	20427	Centerlock Nut, 5/8"
4	20704	Bolt, 5/8" x 6-1/2" Fully Threaded

Fertilizer Drive Assembly



Fertilizer Drive Shaft

Ref.	Part No.	Description
1	402477	Fertilizer Drive Shaft, Male
2	402480	Fertilizer Drive Shaft, Female
3	402471	Drive Coupler, Plastic
4	402469	Fertilizer Coupler

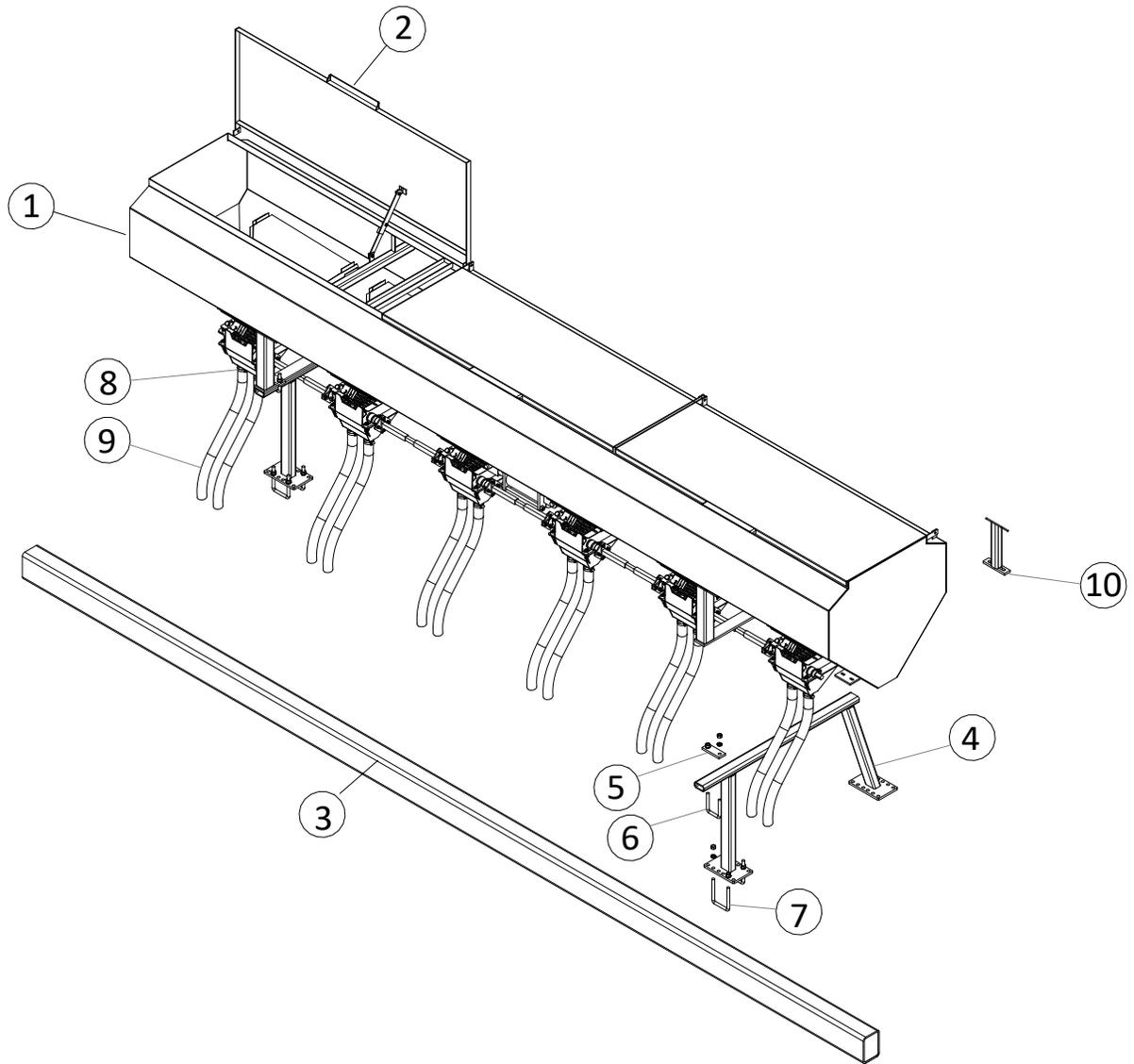
Ref.	Part No.	Description
5	82806	Set Collar, 1"
6	20027	Bolt, 5/16" x 1-1/4"
7	20479	Nut, 5/16"
8	402475	Fertilizer Feedbox Assembly w/ Door

Hydraulic Fertilizer Drive #400081

Ref.	Part No.	Description
1	402275	Shield, Hydraulic Drive
2	368825	Bracket, Hydraulic Drive
3	97286	Motor, Fertilizer Drive w/ Encoder
NS	95485	Encoder, Speed Pickup
4	81148	Sprocket, 5012 x 1"
5	403435	Spacer, Idler

Ref.	Part No.	Description
6	402474	Sprocket, 5036 1" Hub
7	81219	Idler Sprocket, 5013
8	97233	PWM Valve, 4 GPM
9	422302	Mount, Hydraulic Valve
NS	402271	Chain, Fertilizer Drive
NS	400084	Wire Harness, Motor Speed Pickup

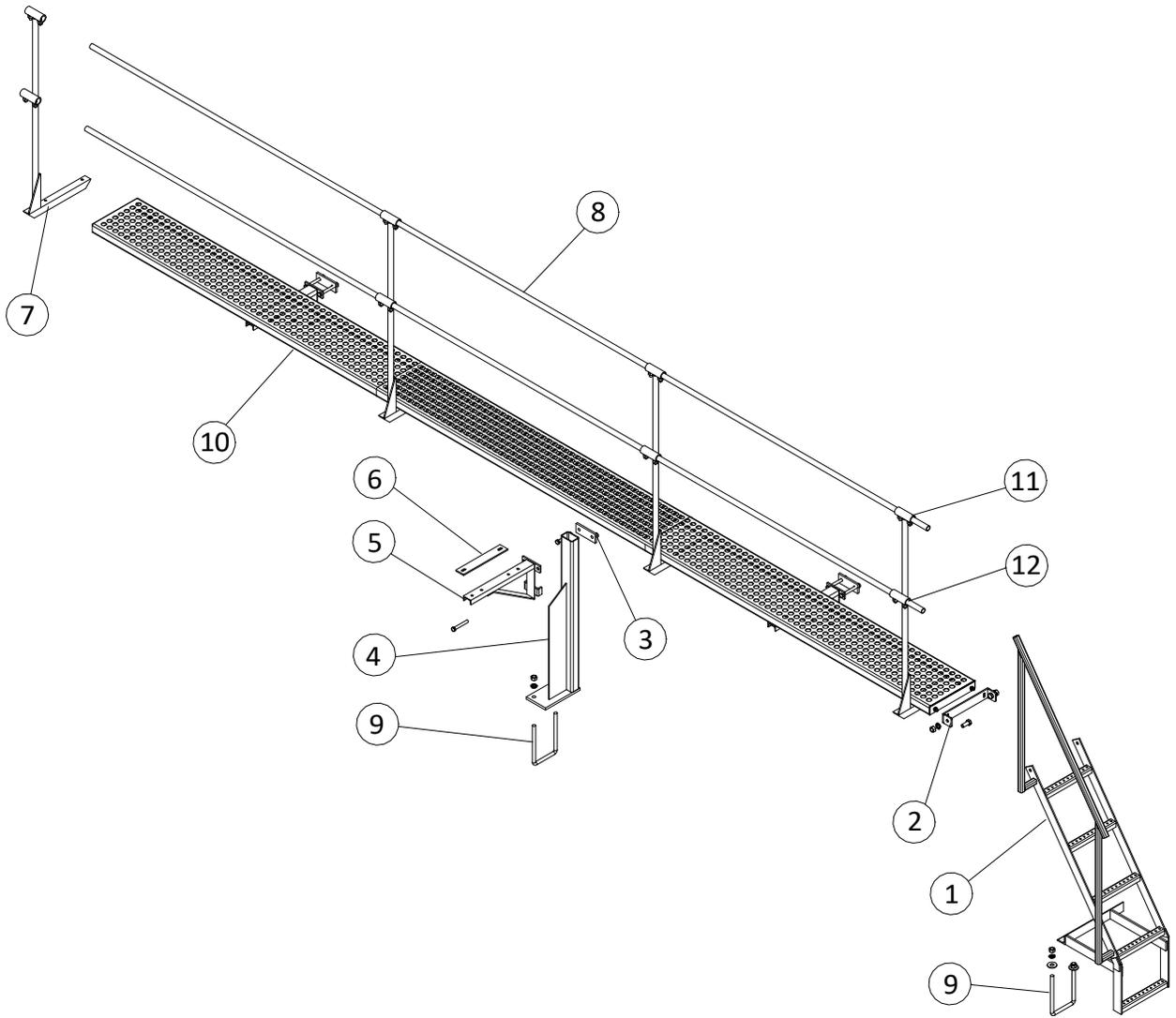
Fertilizer Tanks



Fertilizer Tank Package

Ref.	Part No.	Description
1	359485	Fertilizer Tank, 4 Row / Mild Steel / Standard Capacity
-	359487	Fertilizer Tank, 4 Row / Mild Steel / High Capacity
-	359440	Fertilizer Tank, 4 Row / Stainless Steel / Standard Capacity
-	359442	Fertilizer Tank, 4 Row / Stainless Steel / High Capacity
-	359498	Fertilizer Tank, 6 Row / Mild Steel / Standard Capacity
-	359499	Fertilizer Tank, 6 Row / Mild Steel / High Capacity
-	359488	Fertilizer Tank, 6 Row / Stainless Steel / Standard Capacity
-	359492	Fertilizer Tank, 6 Row / Stainless Steel / High Capacity
2	368671	4 Row Lid Package / Mild Steel
-	368667	4 Row Lid Package / Stainless Steel
-	368636	6 Row Lid Package / Mild Steel
-	368672	6 Row Lid Package / Stainless Steel
3	110069	Toolbar, 4 Row 3/8" (Length Varies with Row Spacing)
-	110066	Toolbar, 6 Row 3/8" (Length Varies with Row Spacing)
4	368690	Mount, Fertilizer Tank
5	368659	Strap, Fertilizer Tank
6	021008	U-Bolt, 5/8" x 3" x 5"
7	021009	U-Bolt, 5/8" x 4" x 5-1/2"
8	040467	Hose Clamp
9	368658	Fertilizer Hose
10	355135	Tank Brace, Fertilizer

Front Fertilizer Tank Platform
#368652

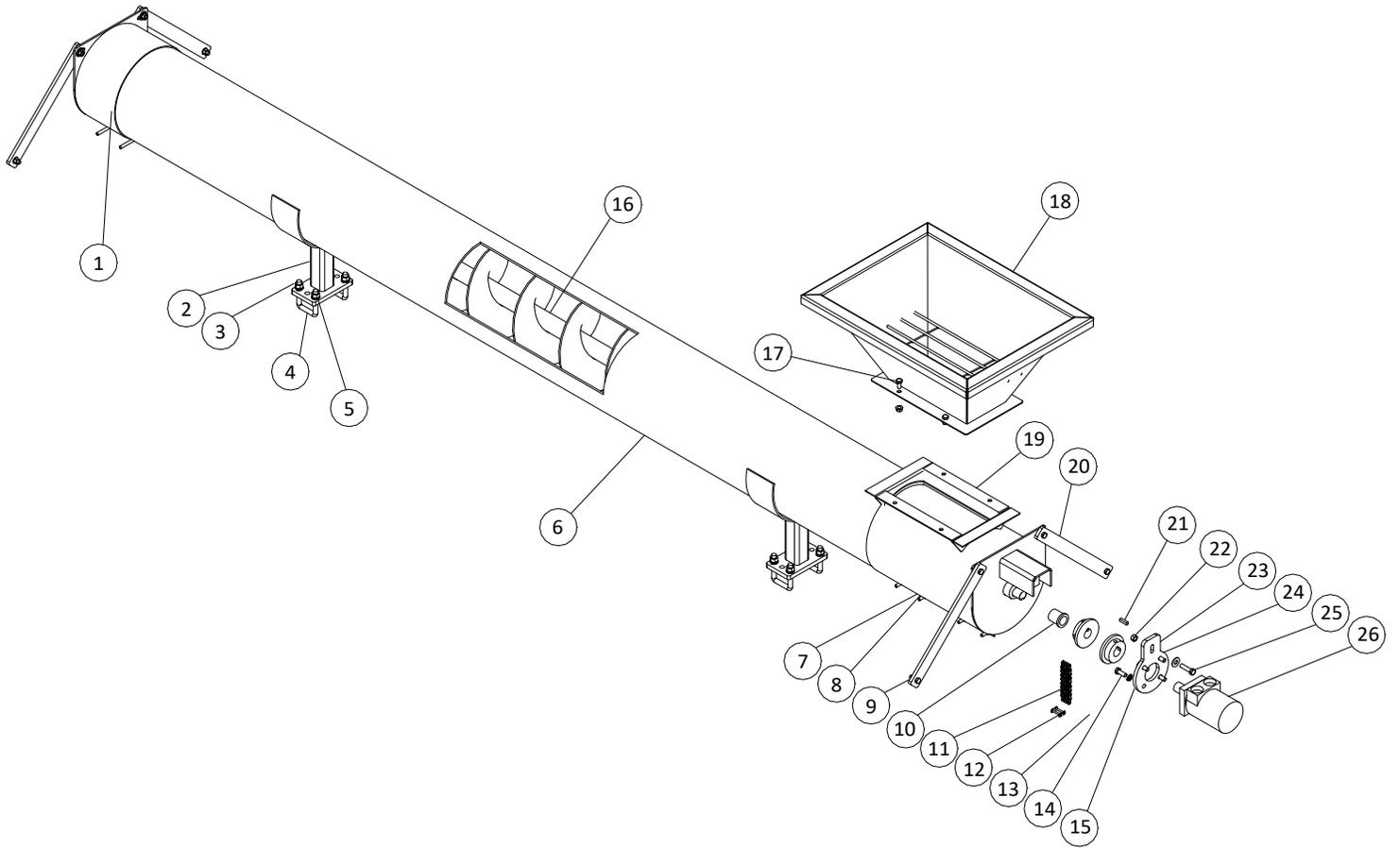


**Front Fertilizer Tank Platform
#368652**

Ref.	Part No.	Description
1	369210	Ladder Weldment, Front Platform
2	369200	Bracket, Ladder Weldment
3	368705	Strap, Platform Mount
4	368750	Mount, Platform Center Support
5	368700	Platform Support
6	353325	Strap, Platform
7	355700	Upright, Handrail
8	355705*	Tube, Handrail
9	21012	U-Bolt, 5/8" x 5" x 8-½"
10	10905*	Morten Channel 12" x 2" x 13 Gauge 12' (Cut to fit)
11	96407	Handrail Connector, Tee
12	96408	Handrail Connector, Offset Cross

*Specify length when ordering

**10" Single Fill Auger
#369100
10" Dual Fill Auger
#369101**



10" Single Fill Auger

#369100

10" Dual Fill Auger

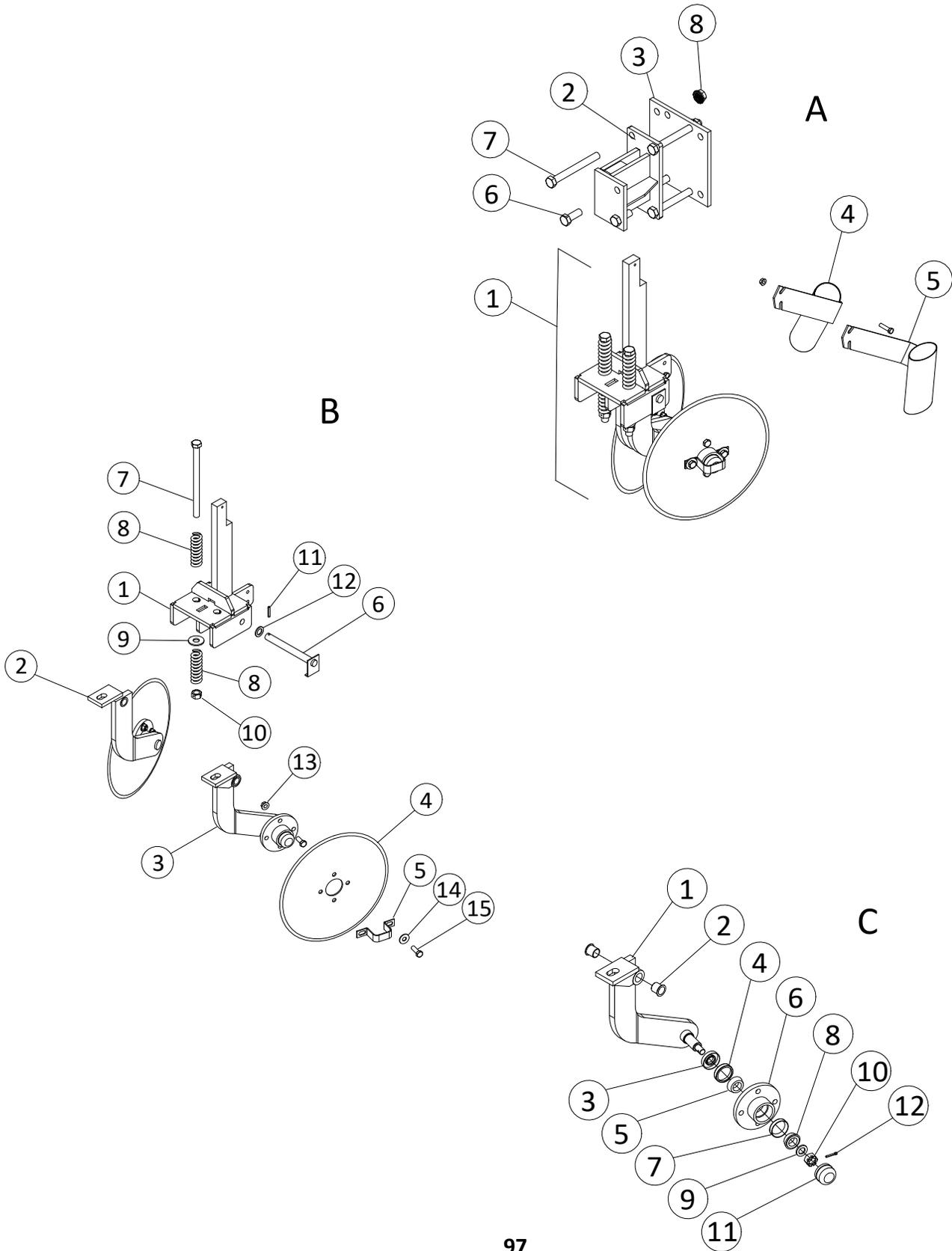
#369101

Ref.	Part No.	Description
1	369130	Tube Endcap Weldment
NS	369128	Endcap Weldment, Dual Fill
2	369160	10" Auger Stand
3	20404	Nut, 1/2"
4	21000	U-Bolt, 1/2" x 2" x 3"
5	20504	Lock Washer, 1/2"
6	369150	Tube- 10" Auger
7	20024	Bolt, 5/16" x 4"
8	20479	Flange Nut, 5/16"
9	20471	Flange Nut, 3/8"
10	90160	Igus Bushing, 1-1/4" OD x 1" ID
11	354555	Sprocket Coupler Chain
12	96064	Connector Link, #40 Double
13	96042	Sprocket, 4018 x1 Fin. Bore

Ref.	Part No.	Description
14	20029	Bolt, 3/8" x 1"
15	20502	Lock Washer, 3/8"
16	369140*	Shaft Weldment- 10" Auger Flighted
17	20028	Bolt, 3/8" x 3/4"
18	368969	10" Auger Hopper
19	369120	Motor Endcap- 10" Auger
20	368943	Mounting Strap
21	351069	Key, 1/4" x 1"
22	20423	Centerlock Nut, 3/8"
23	368965	Motor Mount
24	20513	Washer, 3/8"
25	20030	Bolt, 3/8" x 1-1/2"
26	90103	Motor, Hydraulic

*Varies with row spacing

Disc Openers



#357804 – 4 Row Disc Opener Package

#357806 – 6 Row Disc Opener Package

Ref.	Part No.	Description
1	357805	Fertilizer Disc Opener Assembly
2	357825	Slide Receiver Weldment
3	357845	Plate, Row Unit Mount
4	357955	Holder, Fertilizer Tube Right

Ref.	Part No.	Description
5	357950	Holder, Fertilizer Tube Left
6	20082	Bolt, 3/4" x 2"
7	20090	Bolt, 3/4" x 7"
8	20477	Nut, 3/4"

A

#357805 – Fertilizer Disc Opener Package

Ref.	Part No.	Description
1	357810	Disc Arm Mount Weldment
2	357900	Disc Arm Assembly Right
3	357905	Disc Arm Assembly Left
4	90017	16" Flat Disc Fertilizer
5	357615	Dust Cap Strap
6	357835	Pivot Pin Weldment
7	20157	Bolt, 3/4" x 11"
8	21509	Spring, Disc Opener

Ref.	Part No.	Description
9	20517	Washer, 3/4" Flat
10	20428	Washer, 3/4" Lock
11	20965	Roll Pin, 1/4" x 1-1/2"
12	21335	Washer, 7/8"x10 Ga
13	20505	Nut, 1/2" Flange
14	20515	Washer, 1/2" Flat
15	20052	Bolt, 1/2" x 1-1/2"

B

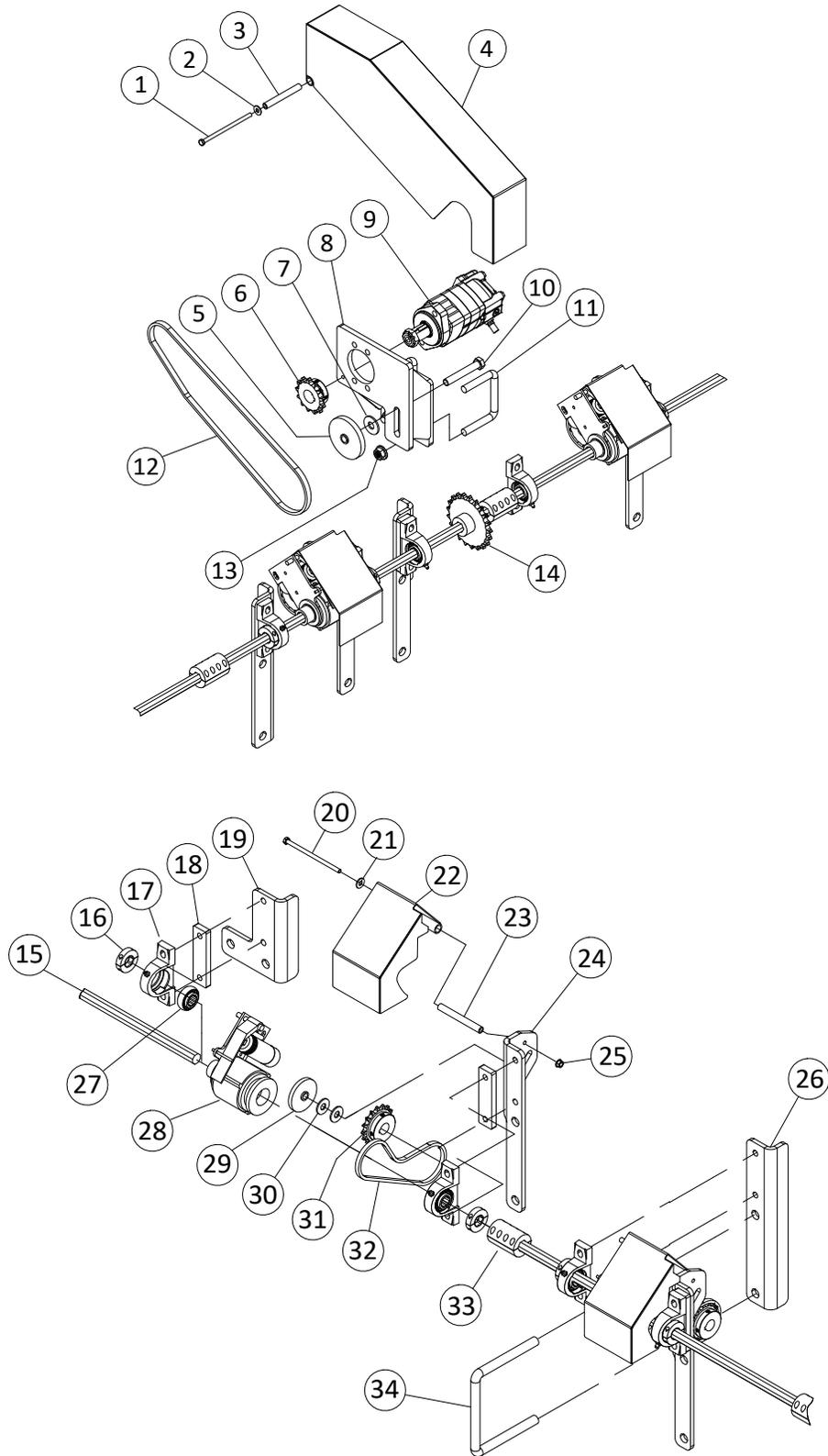
#357900 – Disc Arm Assembly Right
#357905 – Disc Arm Assembly Left (Shown)

Ref.	Part No.	Description
1	357890	Disc Arm Weldment Right
-	357895	Disc Arm Weldment Left
2	90167	1" x 7/8" Plastic Insert
3	96203	Oil Seal 471750 (1-1/4" Shaft)
4	82166	Bearing L44643
5	82165	Bearing Cup LM44610
6	357625	Fertilizer Disc Hub w/Race

Ref.	Part No.	Description
7	82165	Bearing Cup LM44610
8	82166	Bearing L44643
9	21314	3/4" Narrow 10 Ga. Bushing
10	20490	3/4" NF Plain Hex Slotted
11	96204	Dust Cap DC-11 (1.980")
12	20827	Cotter Pin, 5/32" x 1"

C

Row Shutoff Clutch System



Row Shutoff Clutch System

Ref.	Part No.	Description
1	20138	Bolt, 5/16 x 6"
2	20512	Washer, 5/16"
3	354392	Spacer, Clutch Drive Shield
4	354386	Shield, Drive
5	96800	Idler Sprocket, 6015 x 5/8"
6	96146	Sprocket, 6013 x 1-1/4" Fin. Bore
7	20536	Washer, 5/8"
8	354390	Weldment, Crossmember Drive Mount
9	95375	Hydraulic Motor
10	20069	Bolt, 5/8" x 4"
11	21039	U-Bolt, 5/8" x 4 x 3-1/2"
12	354396	Chain, #60 Clutch Crossmember Drive
13	20476	Flange Nut, 5/8"
14	354324	Sprocket, 6021 x 7/8"
15	354394	Hex Shaft, 7/8" (Length = Row Spacing)
16	97341	Shaft Collar, 7/8" Hex
17	82219	Pillow Block
18	354322	Spacer, Clutch Bearing
19	354320	Clutch Bearing Crossmember Mount
20	20138	Bolt, 5/16" x 6"

Ref.	Part No.	Description
21	20512	Washer, 5/16"
22	354336	Shield, Clutch
23	354333	Spacer, Clutch
24	354321	Clutch Bearing Row Unit Mount
25	20479	Flange Nut, 5/16"
26	354319	Clutch Bearing Toolbar Mount
27	97342	Bearing, 7/8" Hex Bore
28	97339	Clutch w/ 5016 Sprocket
29	81227	Idler Sprocket, 5013 x 1/2"
30	20515	Washer, 1/2" Flat
31	81154	Sprocket, 5016 x 1" Fin. Bore
32	354346	Chain, #50 Clutch Row Unit
33	97297	Coupler, 7/8" Hex Split
34	21018	U-Bolt, 3/4" x 7" x 6-1/2"
NS	95049	Chain Master Link, #60
NS	95030	Chain Master Link, #50
NS	97372	Clutch Sprocket, 5016
NS	20588	Bolt, 1/4-20 x 1-1/2" Socket Head
NS	20674	Lock Washer, 1/4" High Collar



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