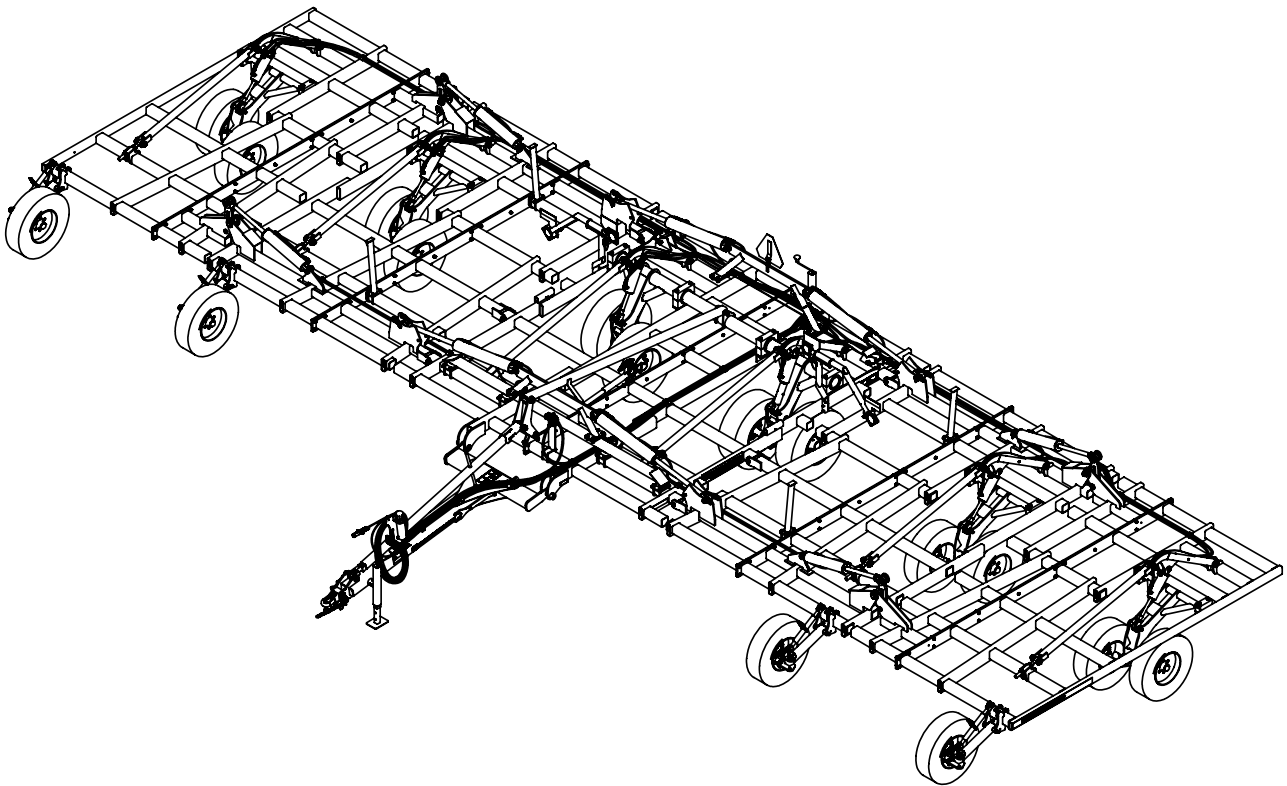


KONGSKILDE 8200 DF

Field Cultivator - Assembly/Parts

Kongskilde
8200



Models

768236901	8236	Field Cultivator (36.5')
768238901	8238	Field Cultivator (38.5')
768240901	8240	Field Cultivator (40.5')
768242901	8242	Field Cultivator (42.5')
768244901	8244	Field Cultivator (44.5')
768246901	8246	Field Cultivator (46.5')
768248901	8248	Field Cultivator (48.5')

*Model may not be exactly as shown.

Kongskilde reserves the right to make changes to product designs and specifications without notice or obligation to rework.

See your local Kongskilde representative for current product specifications and options.

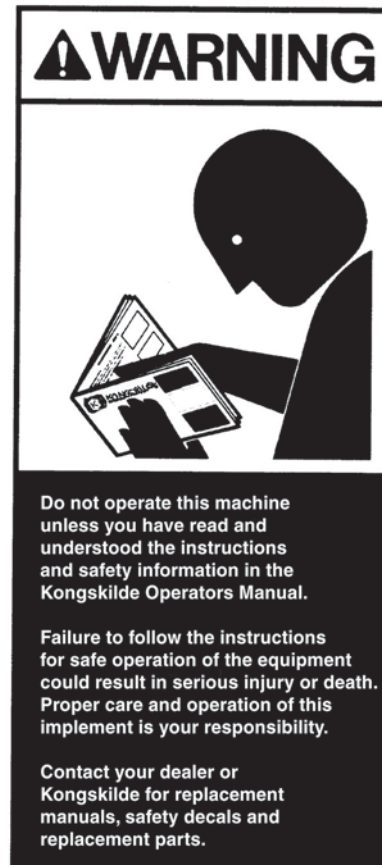
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Introduction:

Please take the time to carefully read all the instruction booklets provided with your new Kongskilde product. Once you are finished reading do not throw these guides out. Keep them for later review.



These instruction booklets have been developed to assist you in assembling, adjusting and maintaining your new Kongskilde Product. To obtain optimal performance over the lifetime of the product read and follow these instructions carefully.

When the assembly of the unit is completed, please refer to the Owners Manual before attempting to adjust or use the product. The Owners Manual will provide you with further instructions on the proper Field Settings, Adjustments and Maintenance Procedures for Safe Operation of the unit.

If optional equipment or attachments have been ordered for your unit, please refer to the instruction booklets provided for proper installation and adjustment of these accessories.

Please take the time to fill out and return the Owners Registration and Warranty Form provided with the Owners Manual in order to activate the warranty coverage.

NOTES:

- Images in this manual are for reference only and may not exactly match actual components.
- This manual depicts "Left" and "Right" as if standing behind the unit facing forward.
- Refer to torque chart in Appendix B for proper tightening of bolts, unless otherwise noted.

Center Frame Assembly

Instructions:

- Hardware included in bag 760033040
- Connect center frames as shown, using parts listed on next page.
- Place center frames on steel shop stands during assembly until lift hydraulics are installed and working.

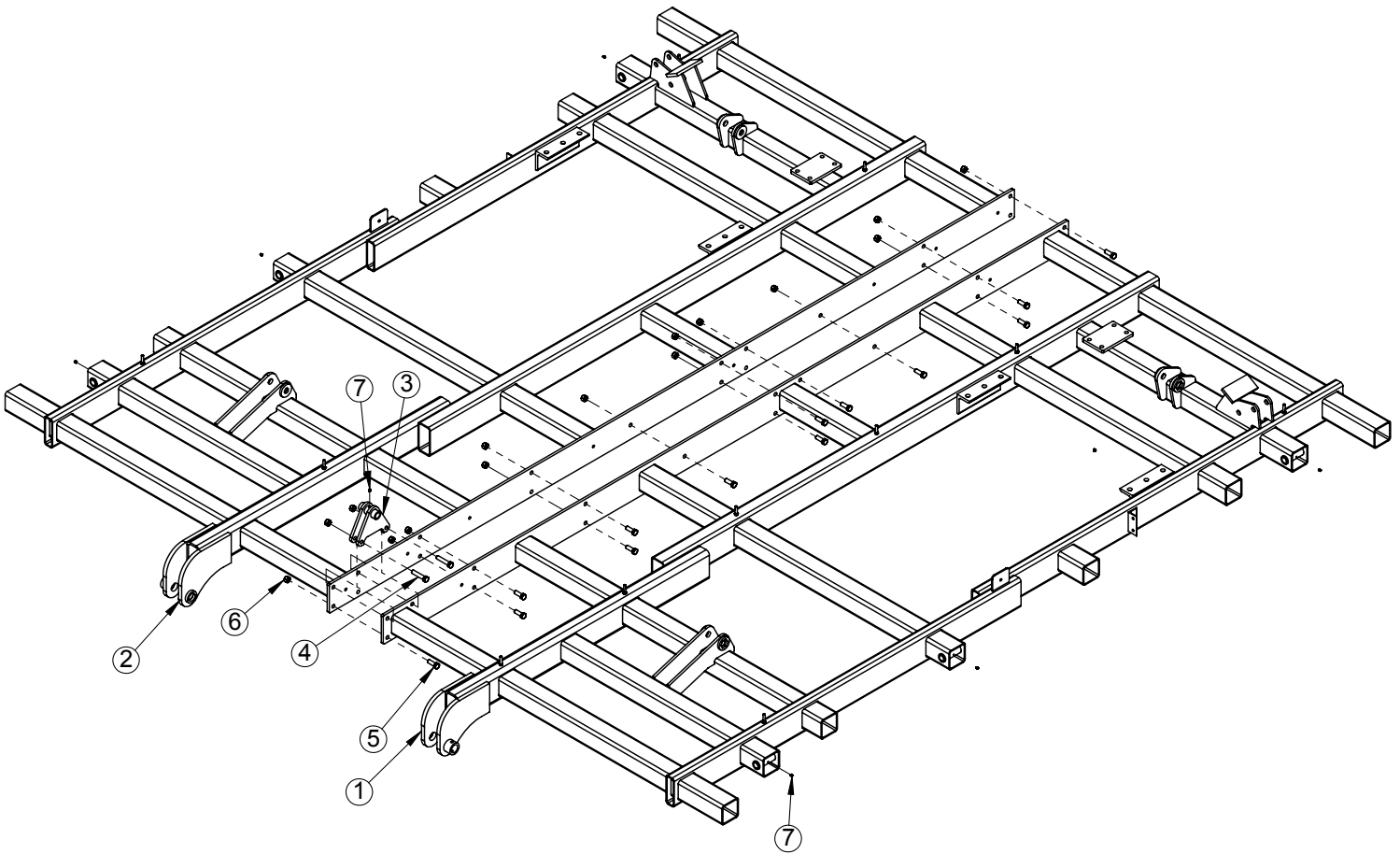
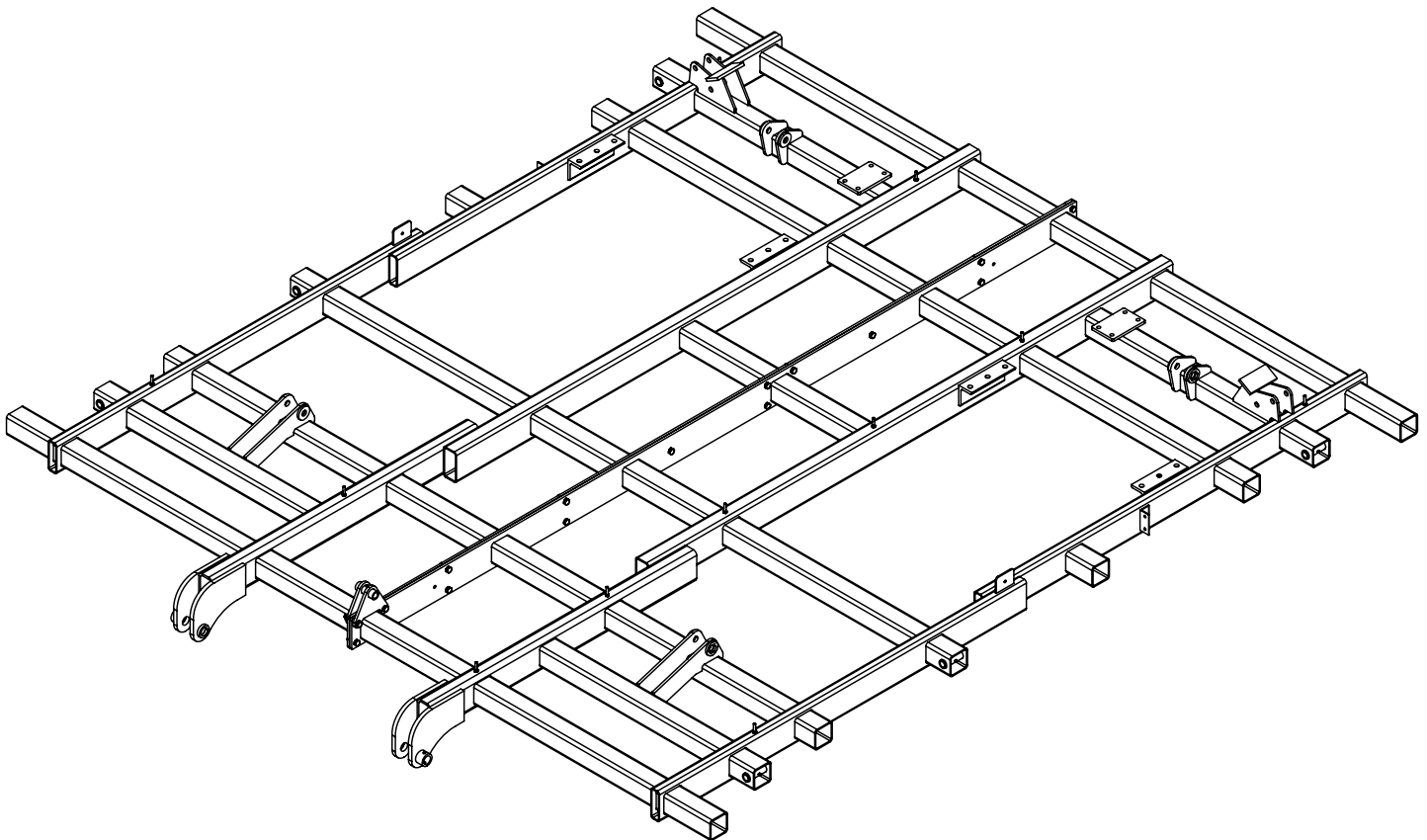


Fig.	Part no.	Qty	Description
1	760033084	1	Asy, Center Mainframe, LH
2	760033085	1	Asy, Center Mainframe, RH
3	760032063	1	Leveling Pivot Linkage Mount
4	600356107	2	Bolt, 5/8" X 3" GR. 5
5	600356023	16	Bolt, 5/8" X 1 3/4" GR. 5
6	600366031	18	Nut, Toplock 5/8"
7	600471000	7	Grease Fitting



Center Rockshaft Assembly

Instructions:

- Hardware included in bag 760033040
- Insert wear sleeves into rockshaft blocks before assembling rockshaft.
- Assemble rockshaft, spindles and wheels to center frame as shown, using parts listed on next page.
- Spindles and wheels can be installed to rockshaft assembly before or after rockshaft is attached to the frame
- IMPORTANT: Install wheels to the spindles so the wheel rims are offset toward the wheel arms (Narrow setting). Torque lug nuts to 170 ft-lbs. Re-torque lug nuts after ten hours of field use.

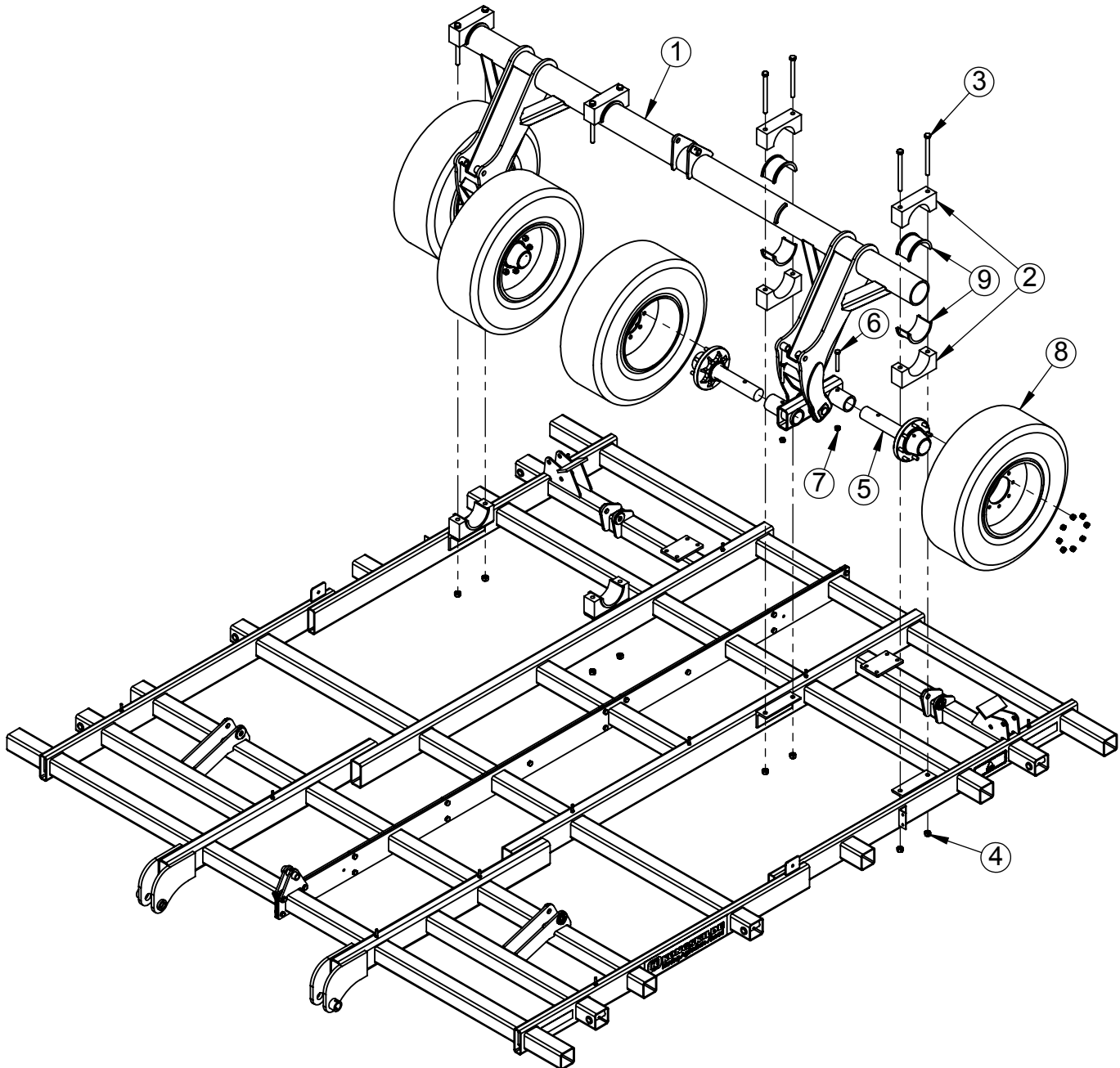


Fig.	Part no.	Qty	Description
1	760033073	1	Asy, Center Rockshaft
2	760031189	8	Center Rockshaft Block
3	7600355102	8	Bolt, 3/4" X 9-1/2" GR. 8
4	600366024	8	Nut, Toplock 3/4"
5	7600473119	4	8 X 8 Hub (G60-8) & Spindle Assembly
6	600355052	4	Bolt, 5/8" X 4-1/2" GR. 8
7	600366031	4	Nut, Toplock 5/8"
8	600473108	4	Wheel Assembly 12.5L-16.5 Galaxy (8-Bolt)
9	760031190	8	Wear Sleeve Half
			See following page for part details

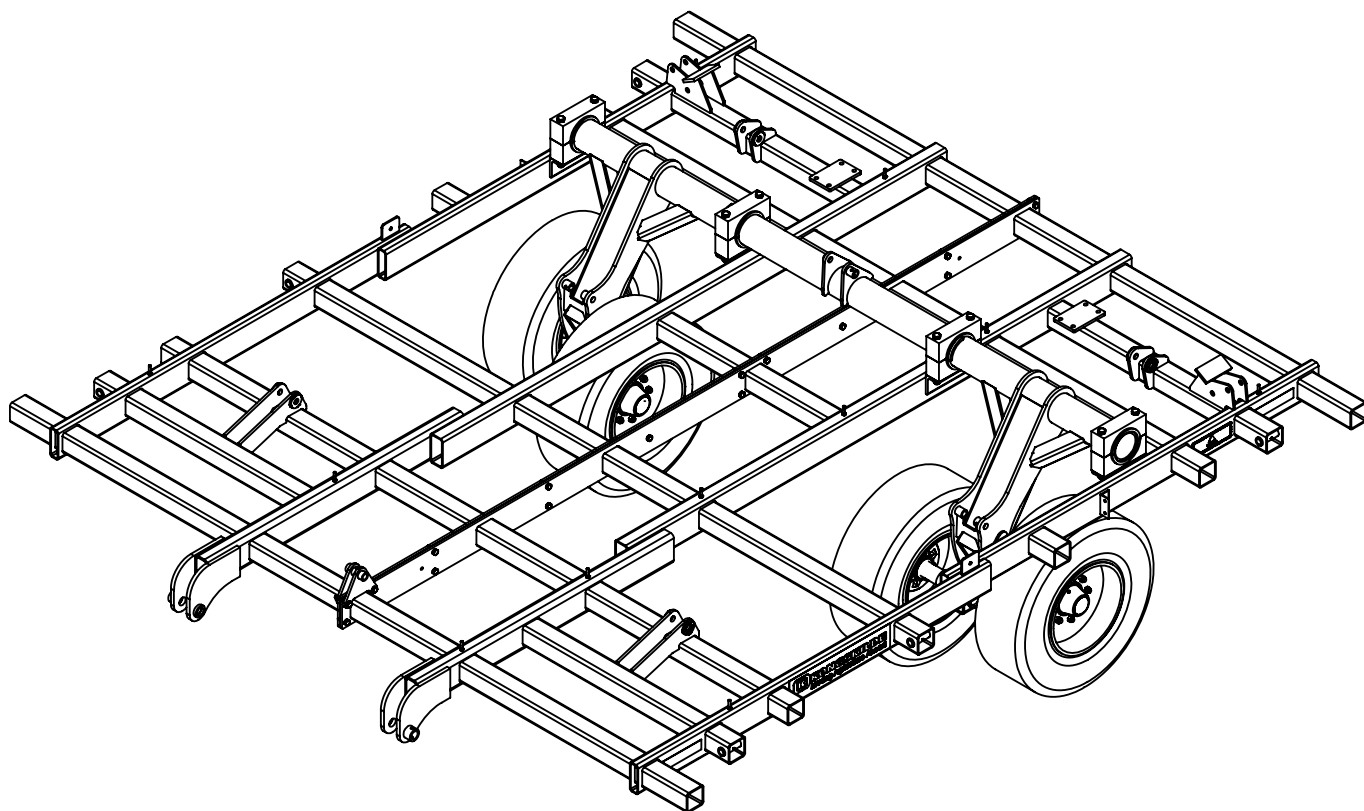
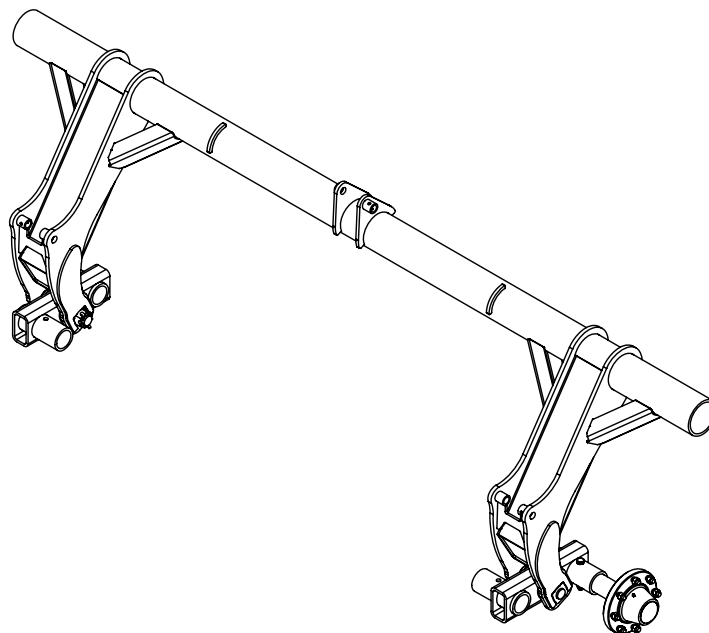




Fig.	Part no.	Qty	Description
1	760036100	1	Center Rockshaft Wdmt
2	760032010	2	Center Tandem Wdmt
3	7600473116	4	6000# Spindle (2-3/4" x 18") w/Hole
-	7600473117	4	2-3/4" x 18" Spindle Assembly (Includes Items 3, 10, 11, 22)
4	763011289	4	8-Bolt Hub 60-8 (Includes Items 4, 7, 8, 13, 14)
-	763012379	4	8 x 8 Hub (G60-8) Assembly Complete (Includes Items 4-9, 12-14)
-	760013001	-	Kit, 8-Bolt Hub Bearing (Includes Items 5-12, 22)
5	600473057	4	Seal, 2-3/4" w/Spring & Alternate Lip
6	76301131	4	Bearing - JLM506849
7	76301137	4	Bearing Cup - JLM506810
8	76301135	4	Bearing Cup - LM501310
9	76301129	4	Bearing - LM501349
10	600473052	4	Washer EMI-8000
11	600366012	4	Slotted Nut 1" - UNF
12	76301230	4	Dust Cap
13	76301235	32	5/8"-18 UNF Lug Nut
14	600471000	8	GF-641 Grease Fitting
15	760031111	4	Tandem Spacer
16	7600473136	4	Seal, 2-1/4" w/Spring, POS22530037TB-S
17	7600473115	4	Bearing Cone, Timken 2776
18	7600473114	4	Bearing Cup, Timken 2720
19	760032026	2	Tandem Pin Wdmt
20	7600366051	2	Slotted Nut, 1-1/2"-12 UNF Plated
21	600383025	2	Cotter Pin, 3/8" x 2-1/2"
22	600383003	2	Cotter Pin, 3/16" x 1-3/4"
			Quantities listed are for each individual part in the complete rockshaft assembly



Fold Cylinder Mount Assembly

Instructions:

- Hardware included in bag 760033040
- Attach fold cylinder mounts and cross brace as shown, using hardware on next page.

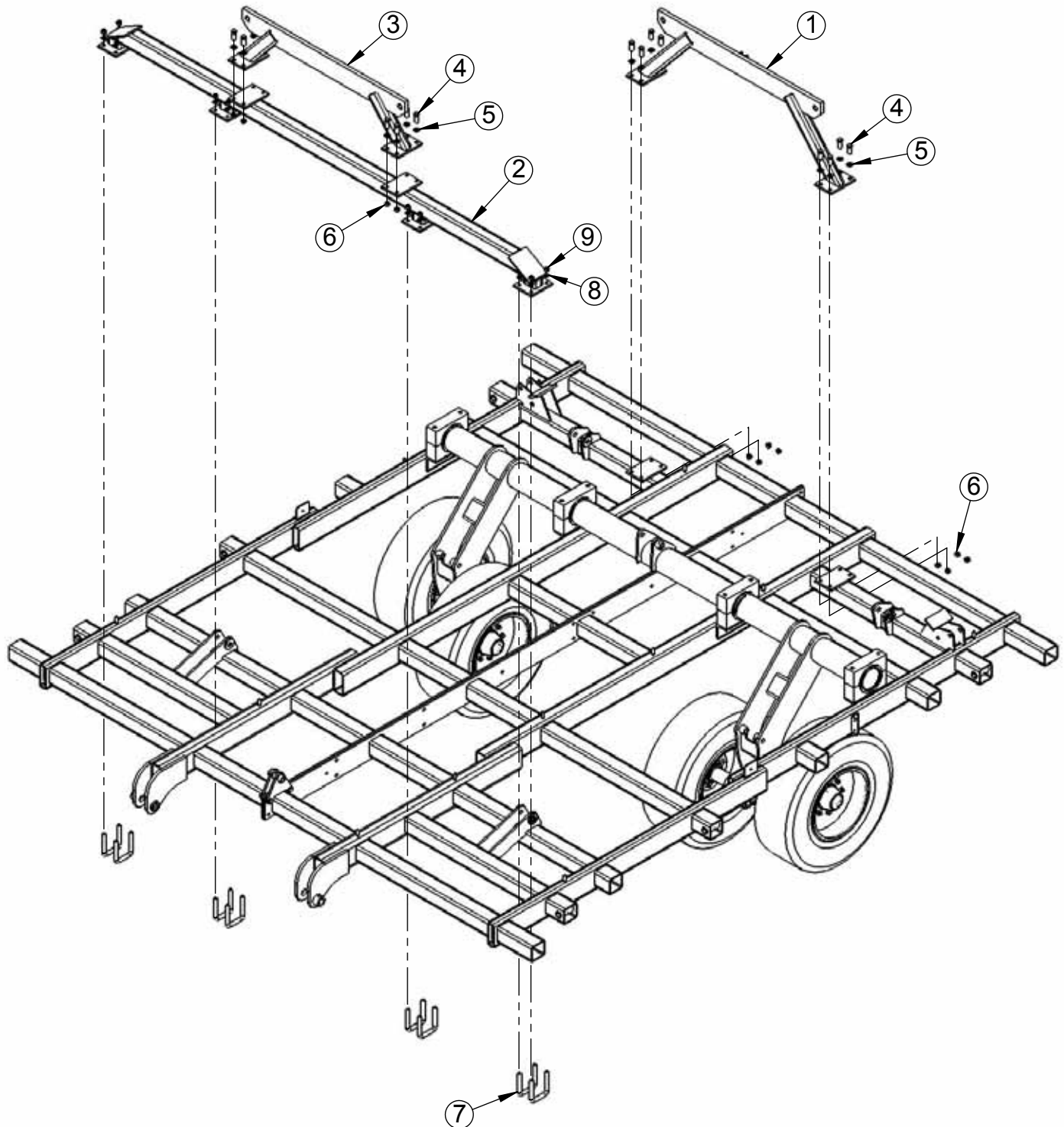
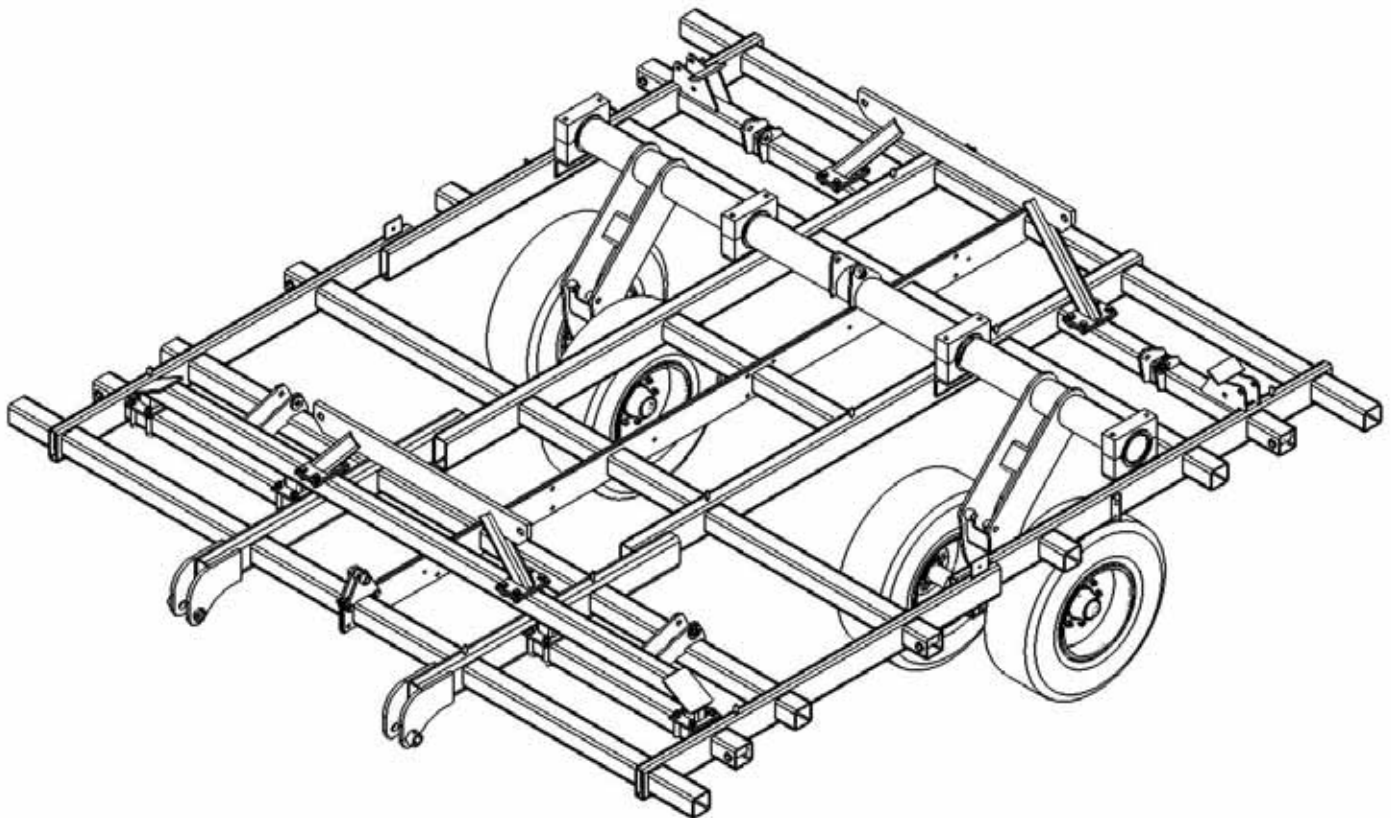


Fig.	Part no.	Qty	Description
1	760033079	1	Asy, Rear Fold Cylinder Mount
2	760032051	1	Center Frame Cross Brace Wdmt
3	760033080	1	Asy, Front Fold Cylinder Mount
4	600355028	16	Bolt, 5/8" X 2" GR. 8
5	600381052	16	Flat Washer, 5/8" - SAE
6	600366031	16	Nut, Toplock 5/8"
7	600373058	8	U-Bolt, 5/8" X 4" X 5-1/2"
8	600382054	16	Lock Washer 5/8"
9	600365014	16	Standard Nut 5/8"



Center Lift Cylinders & Linkages Assembly

Instructions:

- Hardware included in bag 760033041
- Attach lift cylinders and linkages as shown, using parts listed on next page.
- On base end of cylinders, use pins which come with cylinders - pins shown are for repair only
- Install leveling linkage as shown in image "A". This will give the rear of the machine more transport height than original setting "B".

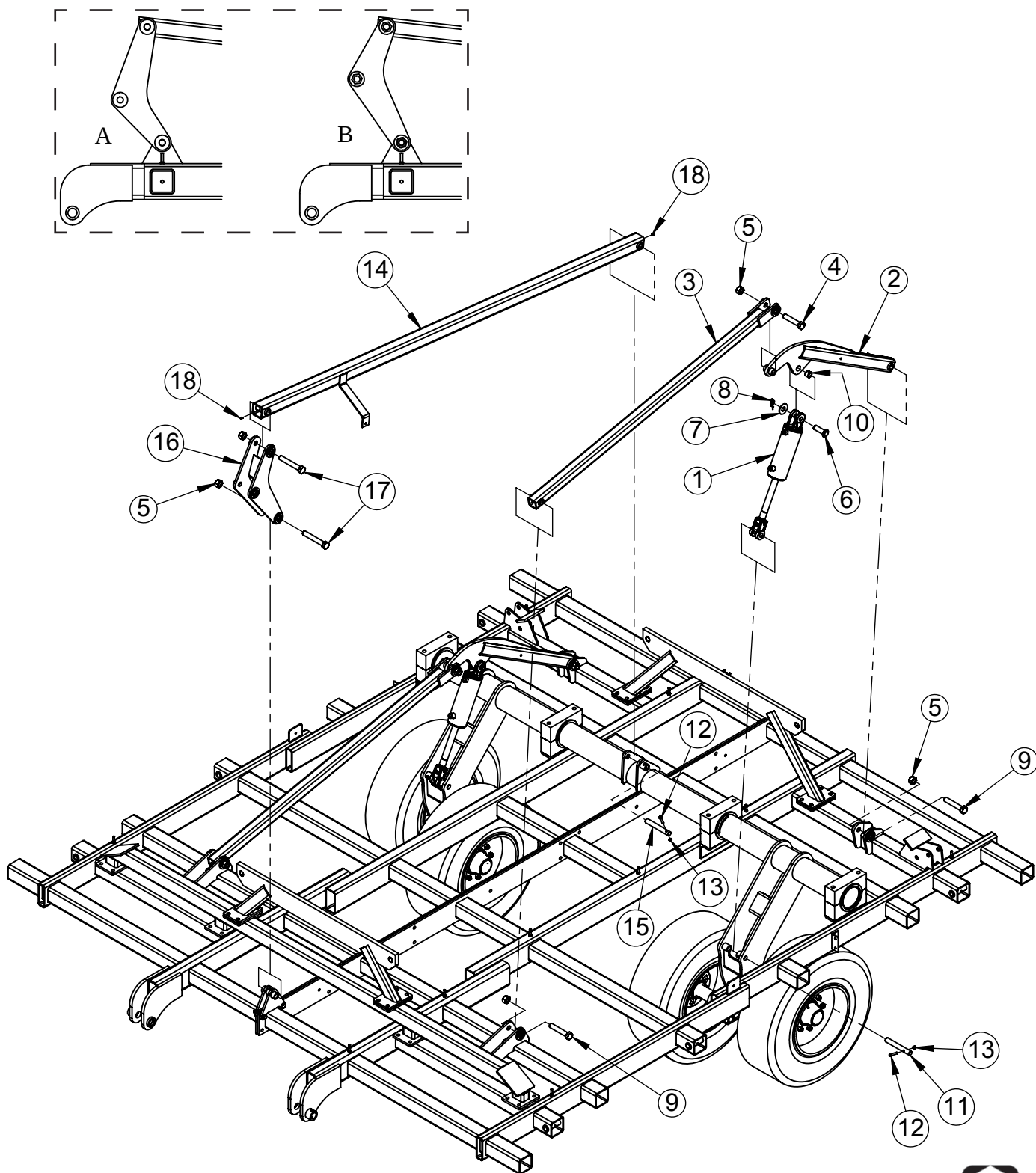
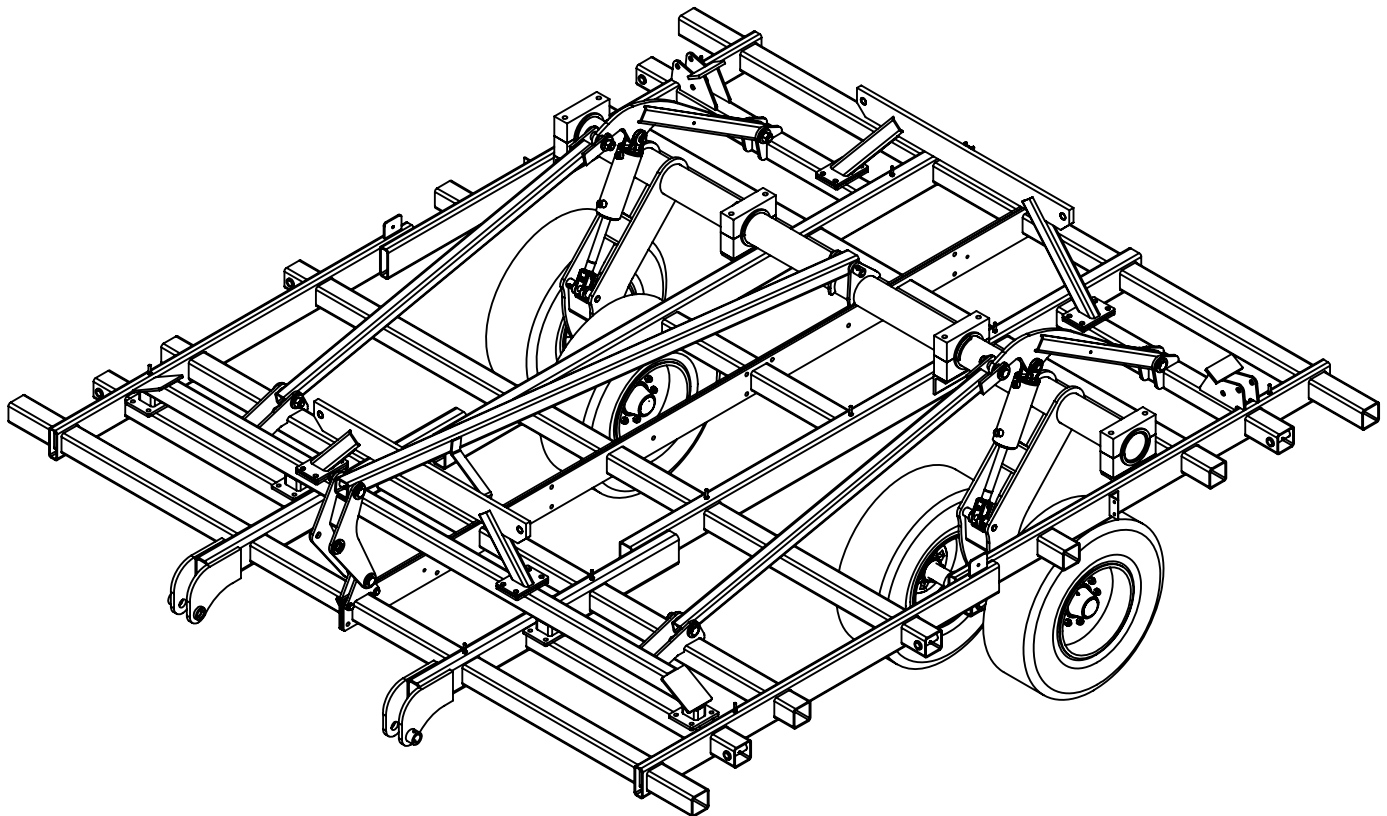


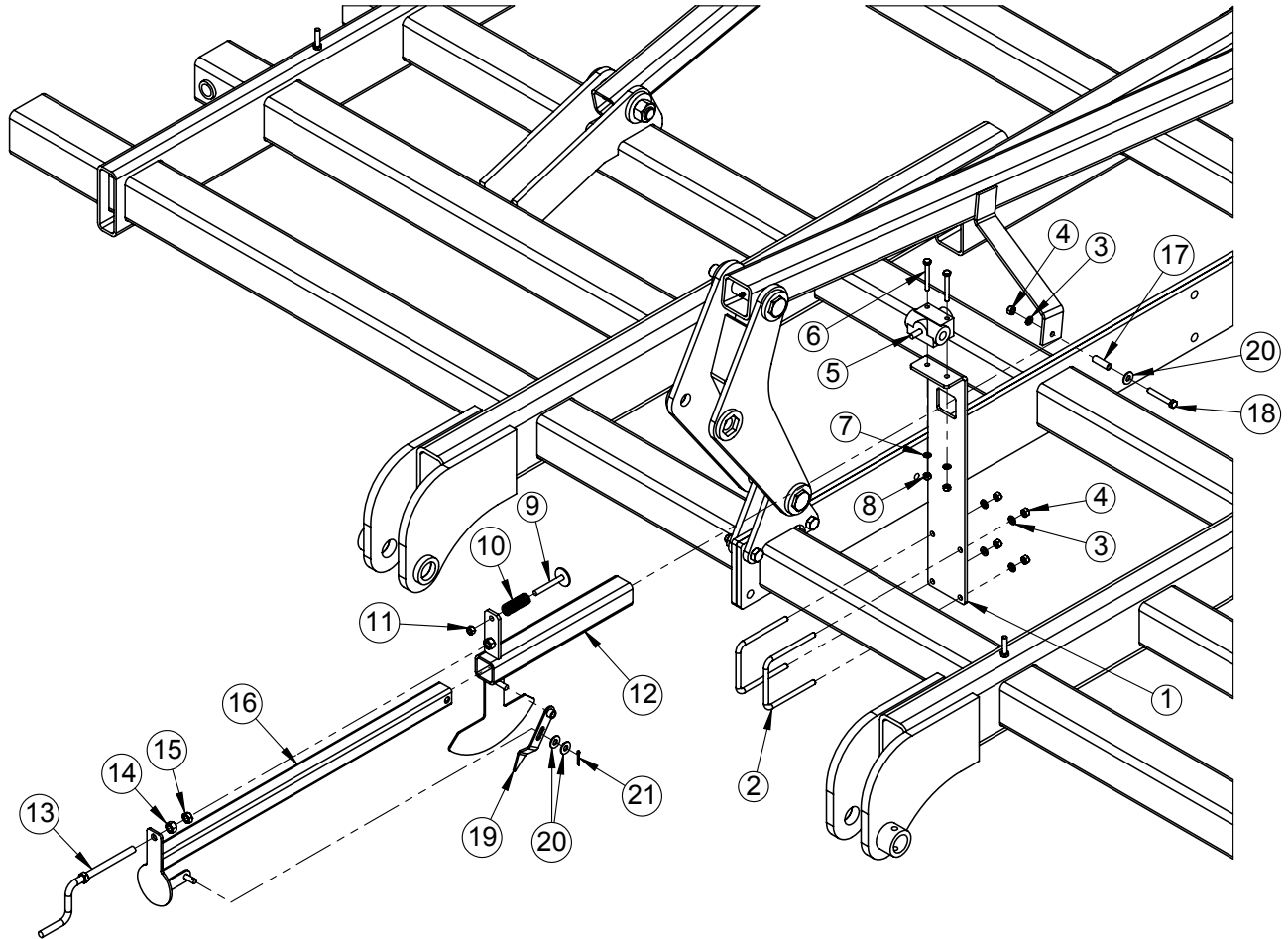
Fig.	Part no.	Qty	Description
1	7600474662	2	Cylinder 4 1/4" X 8" Welded Rephase - Monarch (8242, 8244, 8246, 8248)
	7600474663	2	Cylinder 4" X 8" Welded Rephase - Monarch (8236, 8238, 8240)
2	760032057	2	Cylinder Linkage Wdmt
3	760032056	2	Leveling Linkage Tube Wdmt
4	600356101	2	Bolt, 1" X 5" GR. 5
5	600366032	8	Nut, Toplock 1"
6	7600383204	2	Pin 1" - 75MM
7	600381018	2	Flat Washer 1"
8	600383117	2	Ring Cotter Clip 1"
9	600356029	4	Bolt, 1" X 5-1/2" GR.5
10	7600383216	2	Spring Bushing 1"
11	760031113	2	Rockshaft Cylinder Pin
12	600356111	3	Bolt, 3/8" X 2" GR.5
13	600366028	3	Nut, Toplock 3/8"
14	760032061	1	Leveling Tube Wdmt
15	760031114	1	Leveling Link Pin
16	760032062	1	Leveling Linkage Wdmt
17	7600355110	2	Bolt, 1" X 6-1/2" GR.8 Special
18	600471000	2	Grease Fitting



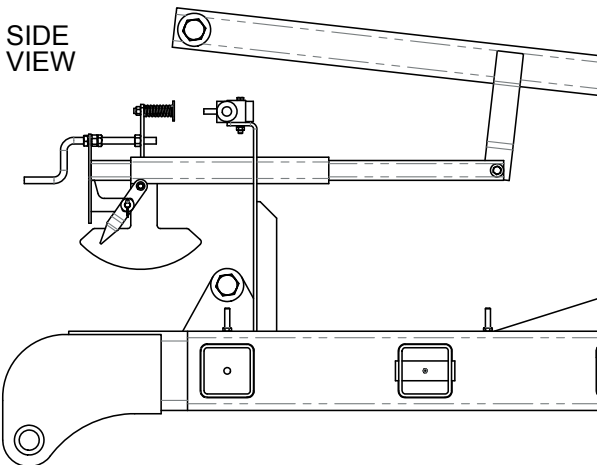
Single Point Assembly

Instructions:

- Hardware included in bag 760033016
- Assemble upright bracket and valve to frame as shown, using hardware listed on next page. Bracket should be placed 8" from center frame rail.
- Assemble striker bolt and spring to outer tube wdmt. Insert inner tube through outer tube and connect together with crank. Attach depth indicator to assembly.
- Insert assembly through upright bracket and connect to leveling tube.



SIDE VIEW



FRONT VIEW

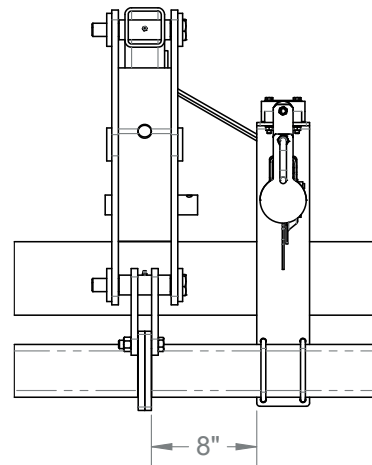
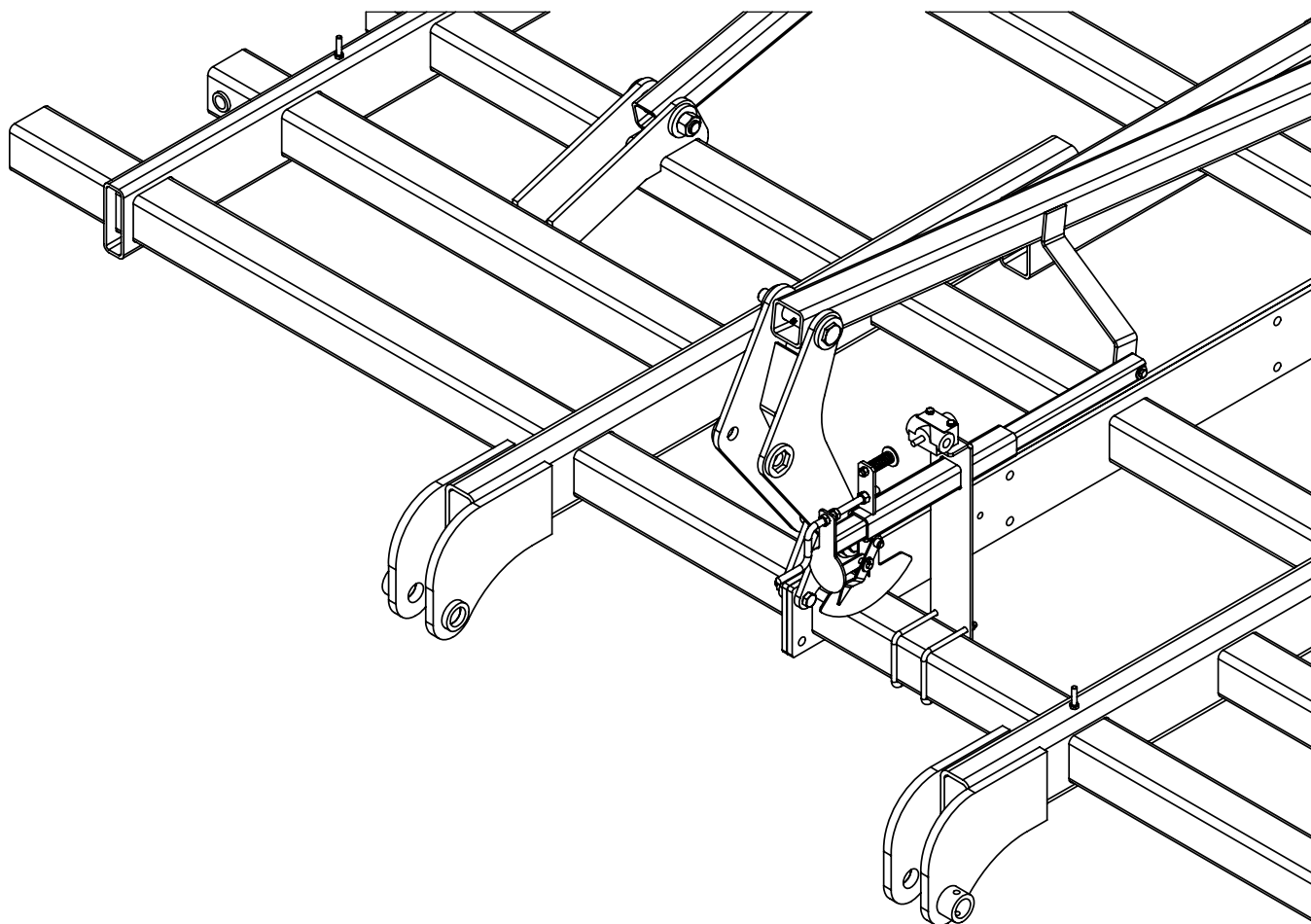


Fig.	Part no.	Qty	Description
1	760032021	1	Single Point Upright Wdmt
2	76101322	2	U-Bolt, 3/8"-16 X 4" X 5"
3	600382051	5	Lockwasher 3/8"
4	600365008	5	Nut, 3/8"
5	7600470491	1	Single Point Valve
6	600356148	2	Bolt, 5/16" X 2-1/2" GR. 5
7	600382050	2	Lockwasher, 5/16"
8	600365007	2	Nut, 5/16"
9	601140555	1	Striker Bolt 3/8" X 3
10	601140556	1	Striker Spring
11	600366028	1	Nut, Toplock 3/8"
12	760033114	1	Asy, Single Point Outer Tube
13	760032038	1	Single Point Crank
14	600365009	1	Nut, 1/2"
15	7600365078	1	Jam Nut, 1/2"
16	760033115	1	Asy, Single Point Inner Tube
17	760031121	1	Single Point Tube Spacer
18	600356007	1	Bolt, 3/8" X 2-1/2" GR. 5
19	760032027	1	Single Point Depth Indicator Wdmt
20	600381006	3	Flatwasher, 3/8"
21	600383037	1	Cotter Pin 1/8" X 1"



Light Stands & Safety Locks Assembly

Instructions:

- Hardware included in bags 760033041 & 760033045
- Attach light stands and safety locks to center frame.
- IMPORTANT: Light tubes should be mounted on stands as far outwards as possible on all double fold models except the 8238. The 8238 requires the light tubes to be mounted at the narrowest position.
- Disconnect safety pin chain from split ring and route chain through base of plates as shown below. Reconnect chain to split ring to secure pin to frame.

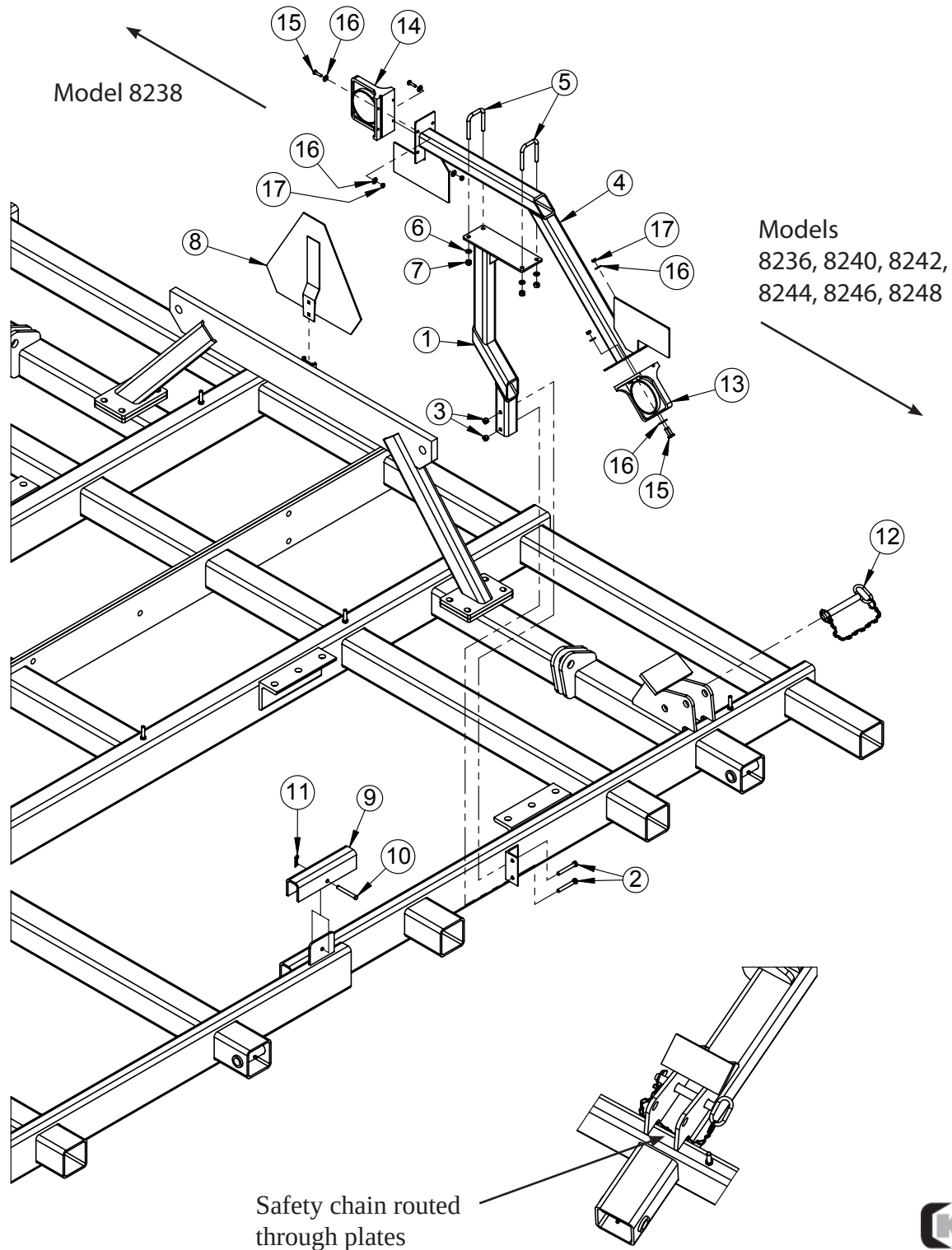
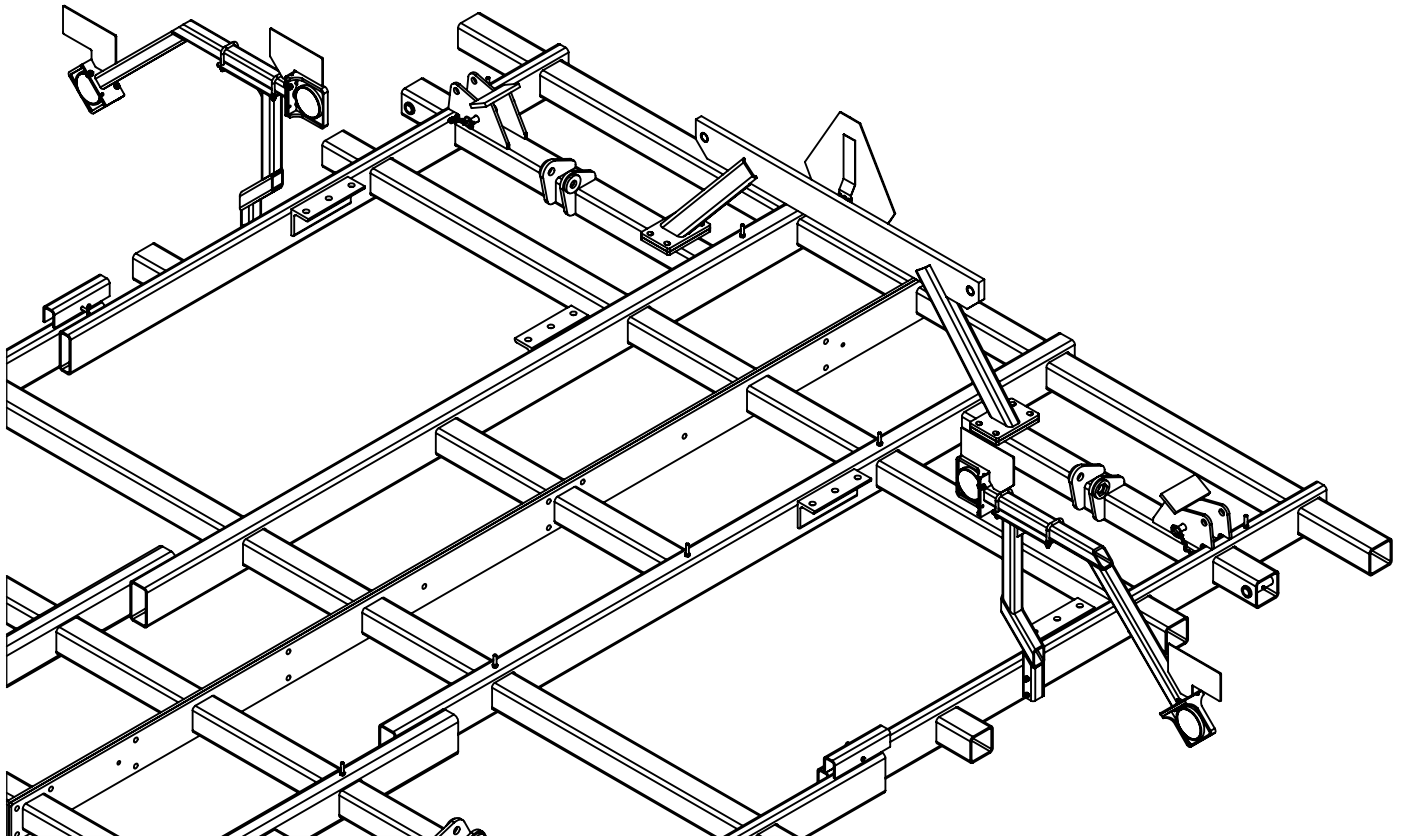


Fig.	Part no.	Qty	Description
1	760032024	2	Light Stand Wdmt
2	7600356163	4	Bolt, 3/8" X 2-3/4" GR. 5
3	600366028	4	Nut, Toplock 3/8"
4	760033116	1	Asy, Light Bar, LH
	760033117	1	Asy, Light Bar, RH (not shown)
5	7600373128	4	U-Bolt, 3/8" X 2" X 3"
6	600382051	8	Lockwasher, 3/8"
7	600365008	8	Nut, 3/8"
8	601140845	1	SMV Sign
9	760031216	2	4-1/4" x 8" Cylinder Safety Lock
10	600383141	2	Clevis Pin, 3/8" (Models 8236, 8238, 8240)
11	600383142	2	Hair Pin, 3/32" X 1-1/2" (Models 8236, 8238, 8240)
12	7600383208	2	Safety Pin w/Chain
13	760031244	2	Amber Flashing Light (included in Light Kit 760033006)
14	760031243	2	Red Tail/Brake Light (included in Light Kit 760033006)
15	600356138	8	Bolt, 1/4" X 1" GR. 5
16	600381023	16	Flat Washer, 1/4"
17	600366026	8	Nut, Toplock 1/4"



Hitch & Turnbuckle Assembly

Instructions:

-Hardware included in bags 760033040, 760033041, 760033045 & 760033016

(The hitch and components can be installed before or after the wing frames have been assembled to the center frame.)

-Attach hitch, turnbuckle and components to center frame as shown, using hardware listed on next page.

-Turnbuckle should be installed with an initial pin-pin length of about 104-1/2".

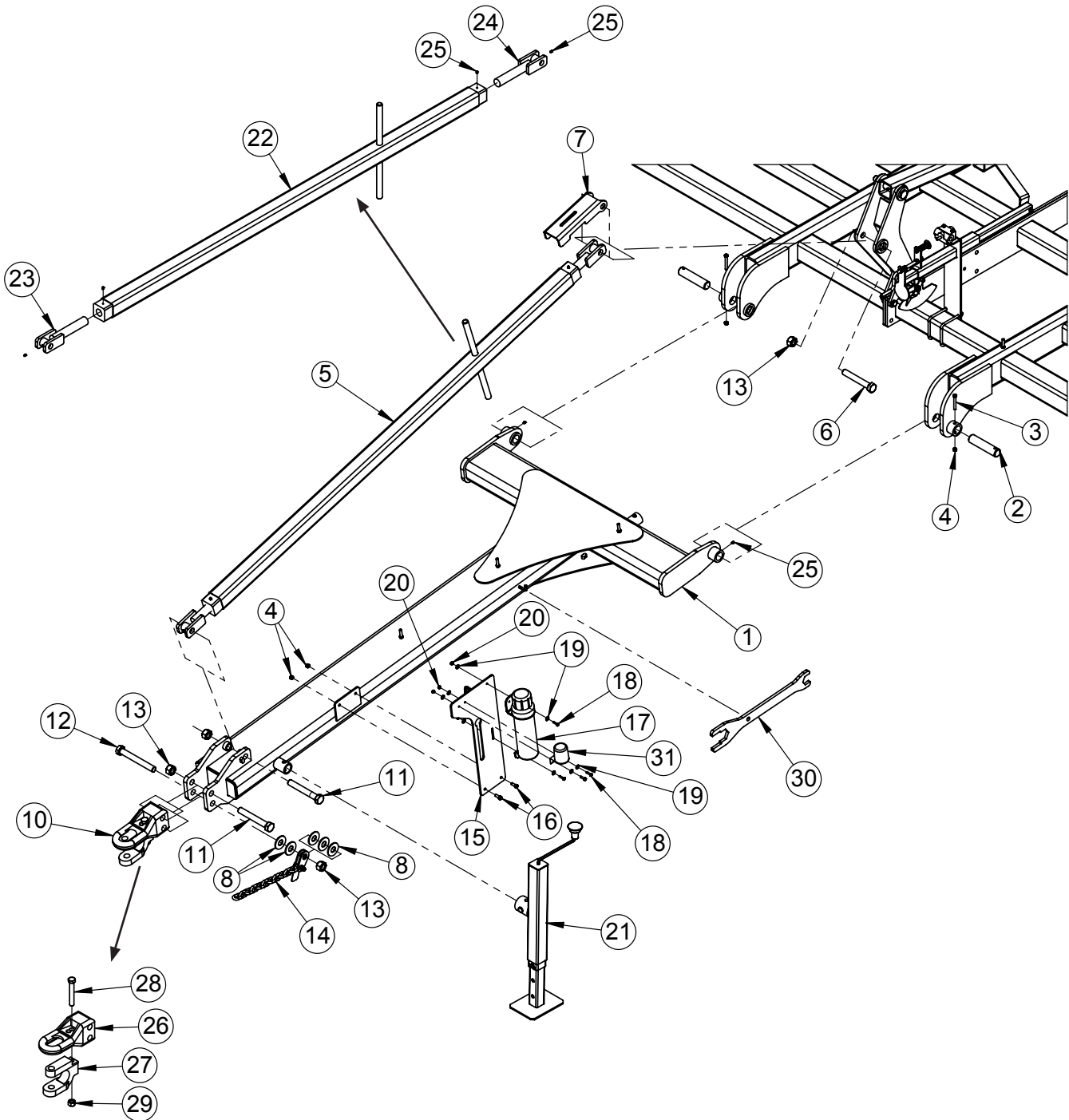
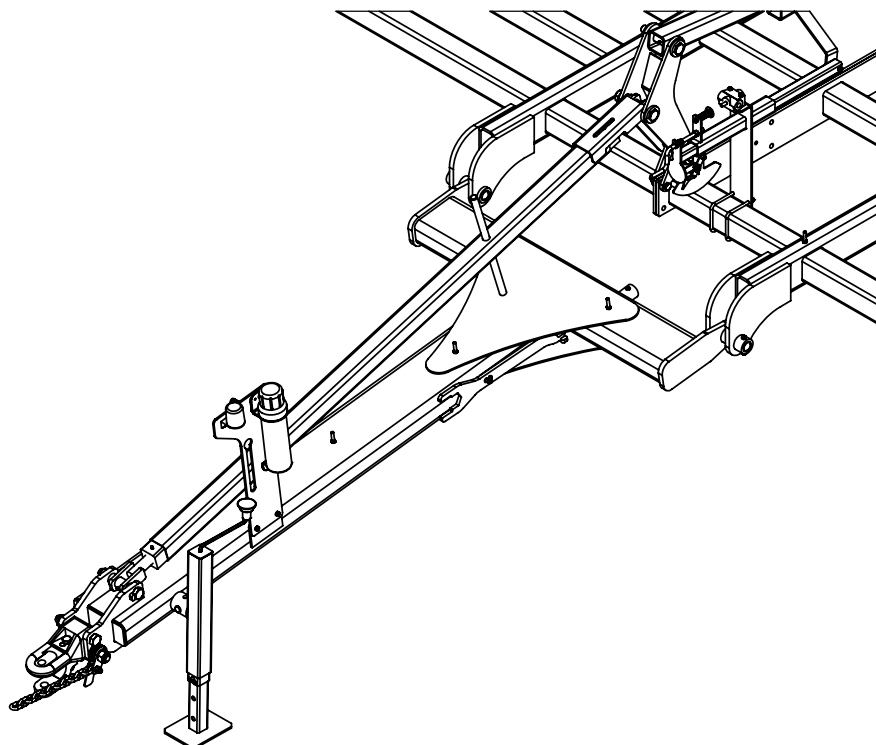


Fig.	Part no.	Qty	Description
1	760033082	1	Asy, Hitch
2	760031082	2	Hitch Pivot Pin
3	7600356163	2	Bolt, 3/8" X 2-3/4" GR. 5
4	600366028	4	Nut, Toplock 3/8"
5	760033027	1	Turnbuckle Assembly (Includes Items 22-25)
6	7600355110	1	Bolt, 1" X 6-1/2" GR.8 Special
7	760031186	1	Turnbuckle Latch
8	600381018	5	Flat Washer 1"
10	601140769	1	CAT II/III Combo Double Clevis - 2" (Includes Items 26-29)
	601140770	-	CAT IV Pindle Style - 2 1/4" (no clevis)
	601232365	-	CAT 1V/V Pindle Style - 2 3/4" (no clevis)
11	600355025	2	Bolt, 1" X 7" GR. 8
12	600355027	1	Bolt, 1" X 8" GR. 8
13	600366032	4	Nut, Toplock 1"
14	600461011	1	ASAE Safety Chain Assembly
15	760033083	1	Asy, Hydraulic Hose Stand
16	600356020	2	Bolt, 3/8" X 1" GR. 5
17	600600268	1	Manual Canister
18	600356138	4	Bolt, 1/4" X 1" GR. 5
19	600381023	8	Flat Washer, 1/4"
20	600366026	4	Nut, Toplock 1/4"
21	601231223	1	Jack TWL 190 DL-B
22	760036066	1	Turnbuckle Wdmt
23	760032064	1	Turnbuckle Clevis RH
24	760032065	1	Turnbuckle Clevis LH
25	600471000	6	Grease Fitting
26	601140771	1	CAT III Base Hitch
27	601140772	1	CAT III Clevis Insert
28	600355047	1	Bolt, 3/4" X 5" GR. 8
29	600366024	1	Nut, Toplock 3/4"
30	760031152	1	Adjustment Wrench
31	760001005	1	Socket, 7 Pin Light Plug Storage



Intermediate Wing Frame Assembly

Instructions:

- Hardware included in bags 760033020 & 760033043
- Bolt together wing frames as shown, using hardware listed on next page, and then attach to center frame. Use steel shop stands to support the wings until lift and fold hydraulics are installed and working.
- Repeat for opposite side

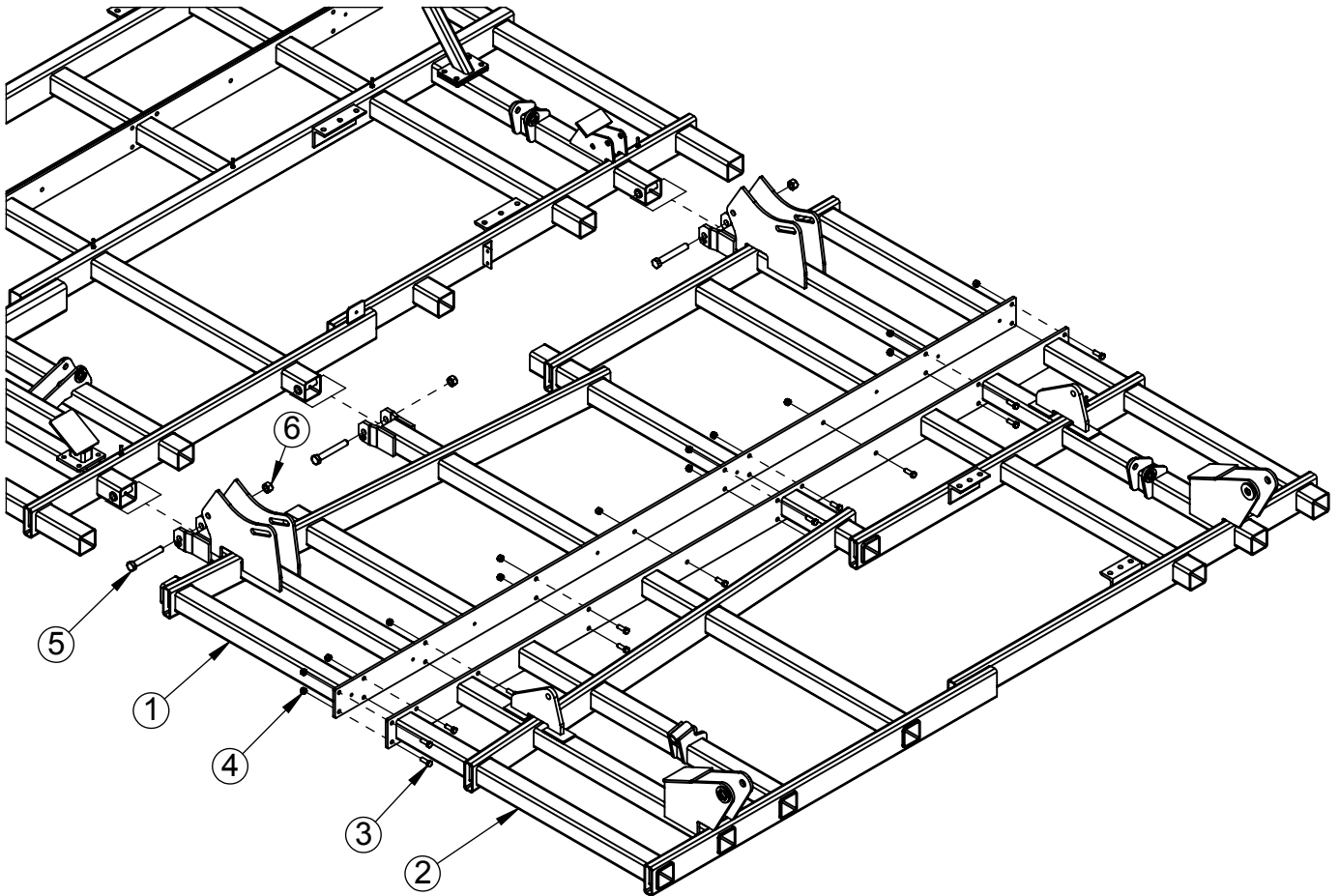
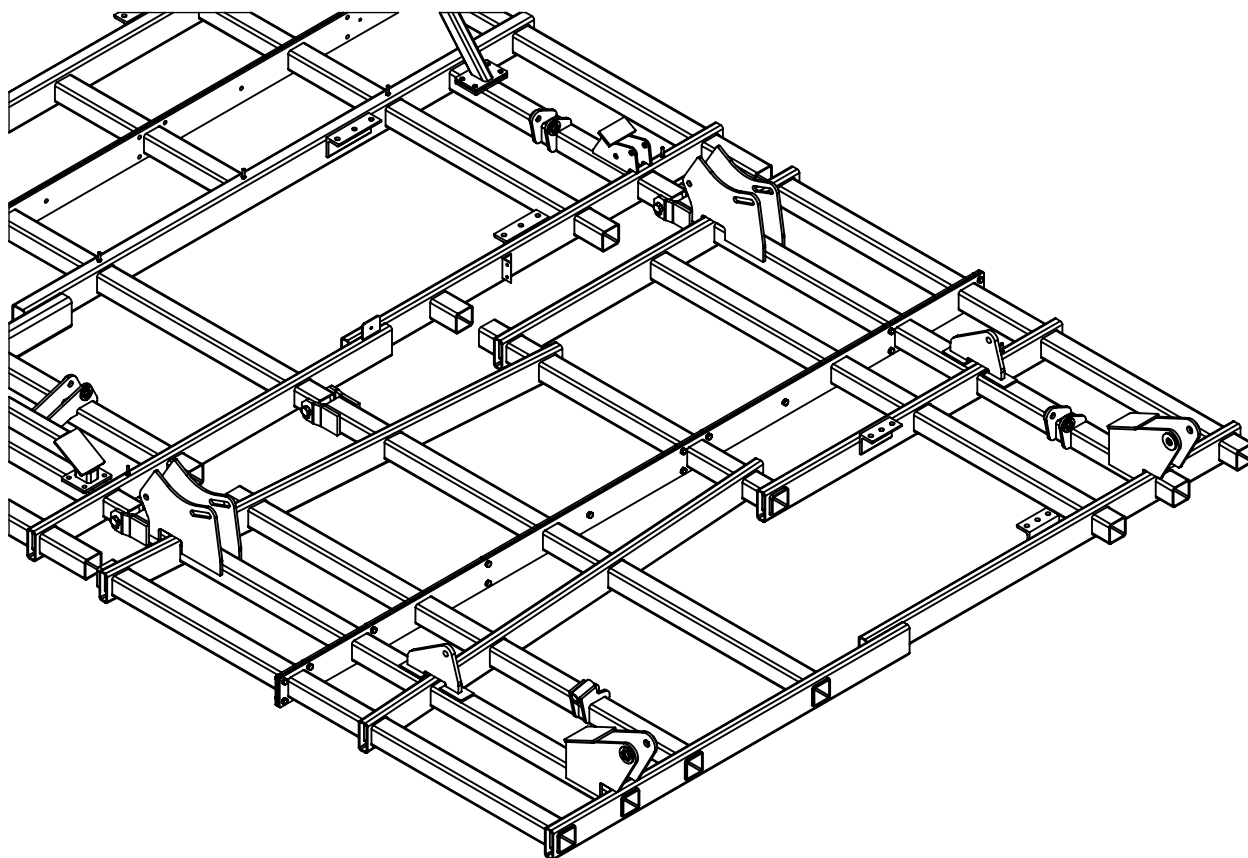


Fig.	Part no.	Qty	Description
1	760033100	1	Asy, Wing Frame, 4.5' Inner, LH, DF (Models 8248, 8246)
	760033096	1	Asy, Wing Frame, 3.5' Inner, LH, DF (Models 8244, 8242, 8240)
	760033092	1	Asy, Wing Frame, 2.5' Inner, LH, DF (Model 8238)
	760033104	1	Asy, Wing Frame, 7' Intermediate, LH, DF (Model 8236)
1b	760033101	1	Asy, Wing Frame, 4.5' Inner, RH, DF (Models 8248, 8246) (not shown)
	760033097	1	Asy, Wing Frame, 3.5' Inner, RH, DF (Models 8244, 8242, 8240) (not shown)
	760033093	1	Asy, Wing Frame, 2.5' Inner, RH, DF (Model 8238) (not shown)
	760033105	1	Asy, Wing Frame, 7' Intermediate, RH, DF (Model 8236) (not shown)
2	760032043	1	5.5' Intermediate Wing Frame, LH (Model 8248, 8246, 8244, 8242, 8240, 8238)
2b	760032044	1	5.5' Intermediate Wing Frame, RH (Model 8248, 8246, 8244, 8242, 8240, 8238)
3	600356023	36	Bolt, 5/8" X 1 3/4" GR. 5
4	600366031	36	Nut, Toplock 5/8"
5	600355025	6	Bolt, 1" X 7" GR. 8
6	600366032	6	Nut, Toplock 1"



Intermediate Fold Cylinder Assembly

Instructions:

- Hardware included in bag 760033043
- Attach fold cylinders to center and wing frames as shown, using parts listed on next page.
- Install cylinders with ports facing the rear.
- On base end of cylinders, use pins which comes with cylinders - pins shown are for repair only.

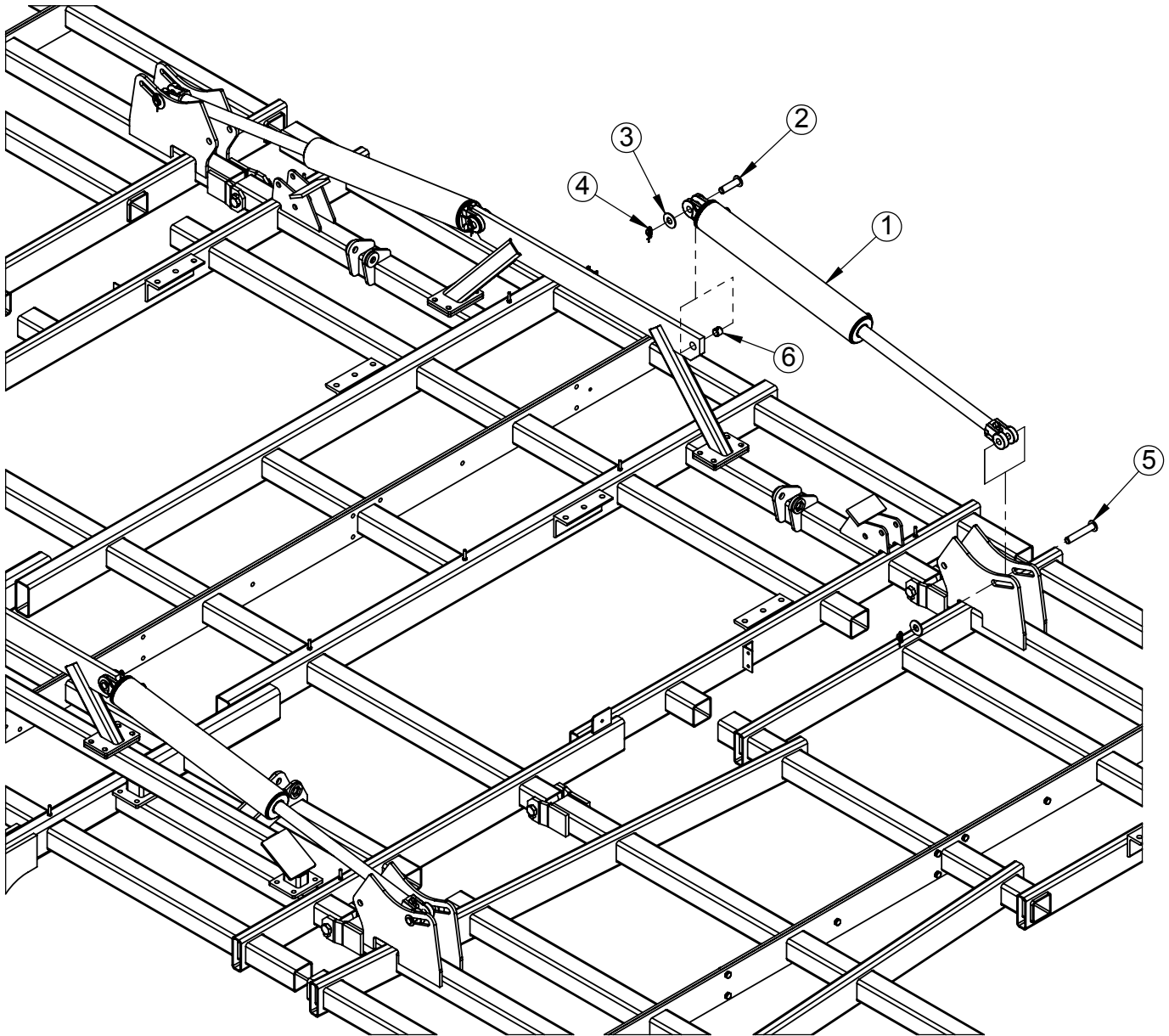
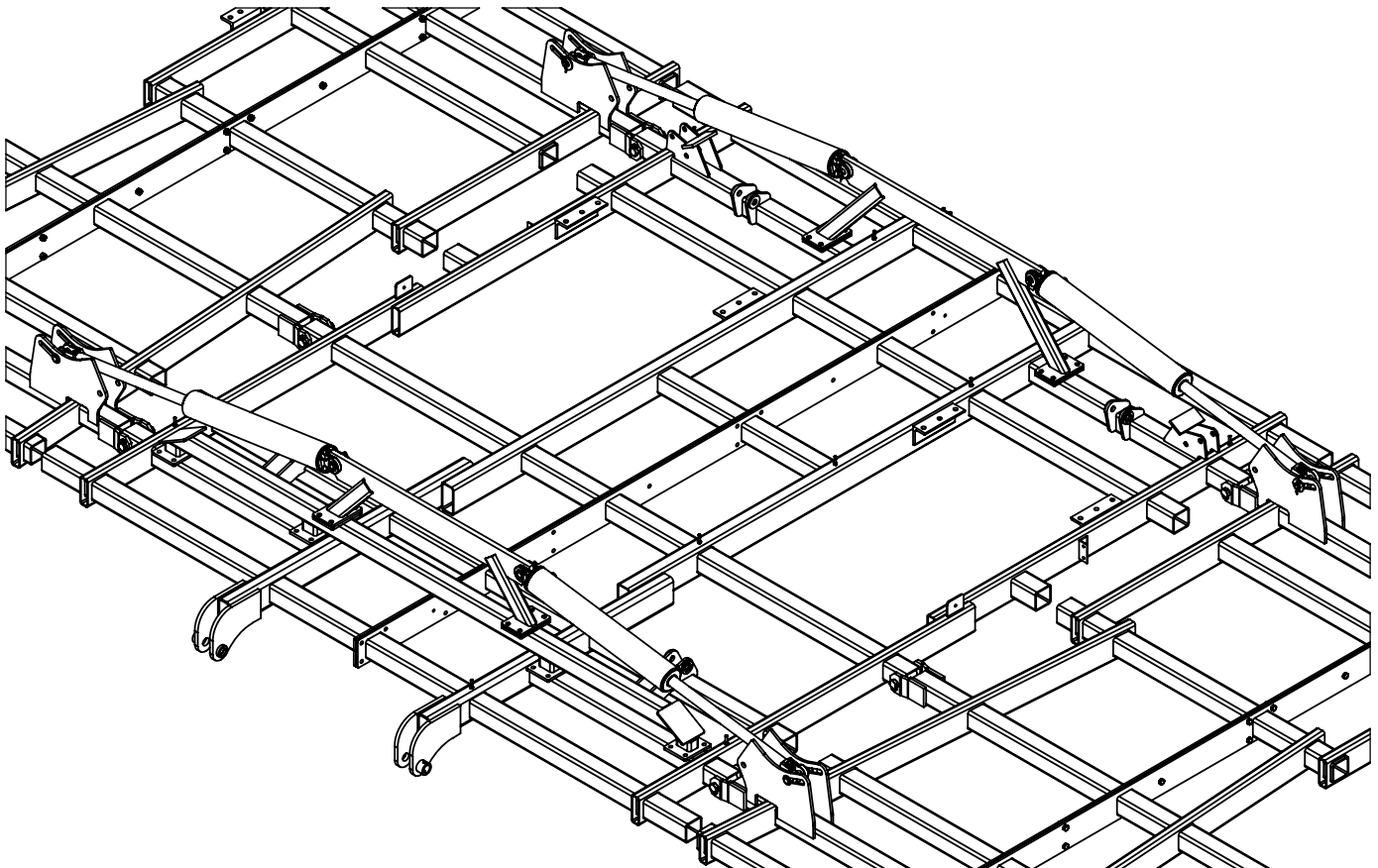


Fig.	Part no.	Qty	Description
1	7600474667	4*	Cylinder 4 1/2" X 30" Welded - Monarch (Models 8248, 8246, 8244, 8242)
	7600474666	4*	Cylinder 4" X 30" Welded - Monarch (Models 8240, 8238, 8236)
2	600383136	4	Pin 1" - 85MM
3	600381018	8	Flat Washer, 1"
4	600383117	8	Ring Cotter Clip 1"
5	7600383205	4	Pin, 1" - 135MM
6	7600383216	4	Spring Bushing, 1"



Wing Rockshaft Assembly

Instructions:

- Hardware included in bag 760033042
- Assemble rockshaft, spindles and wheels to intermediate wing frame as shown, using parts listed on next page.
- Spindles and wheels can be installed to rockshaft assembly before or after rockshaft is attached to the frame
- IMPORTANT: Install wheels to the spindles so the wheel rims are offset toward the wheel arms (Narrow setting). Torque lug bolts to 125 ft-lbs. Re-torque lug bolts after ten hours of field use.
- Repeat for opposite side and outer wings.

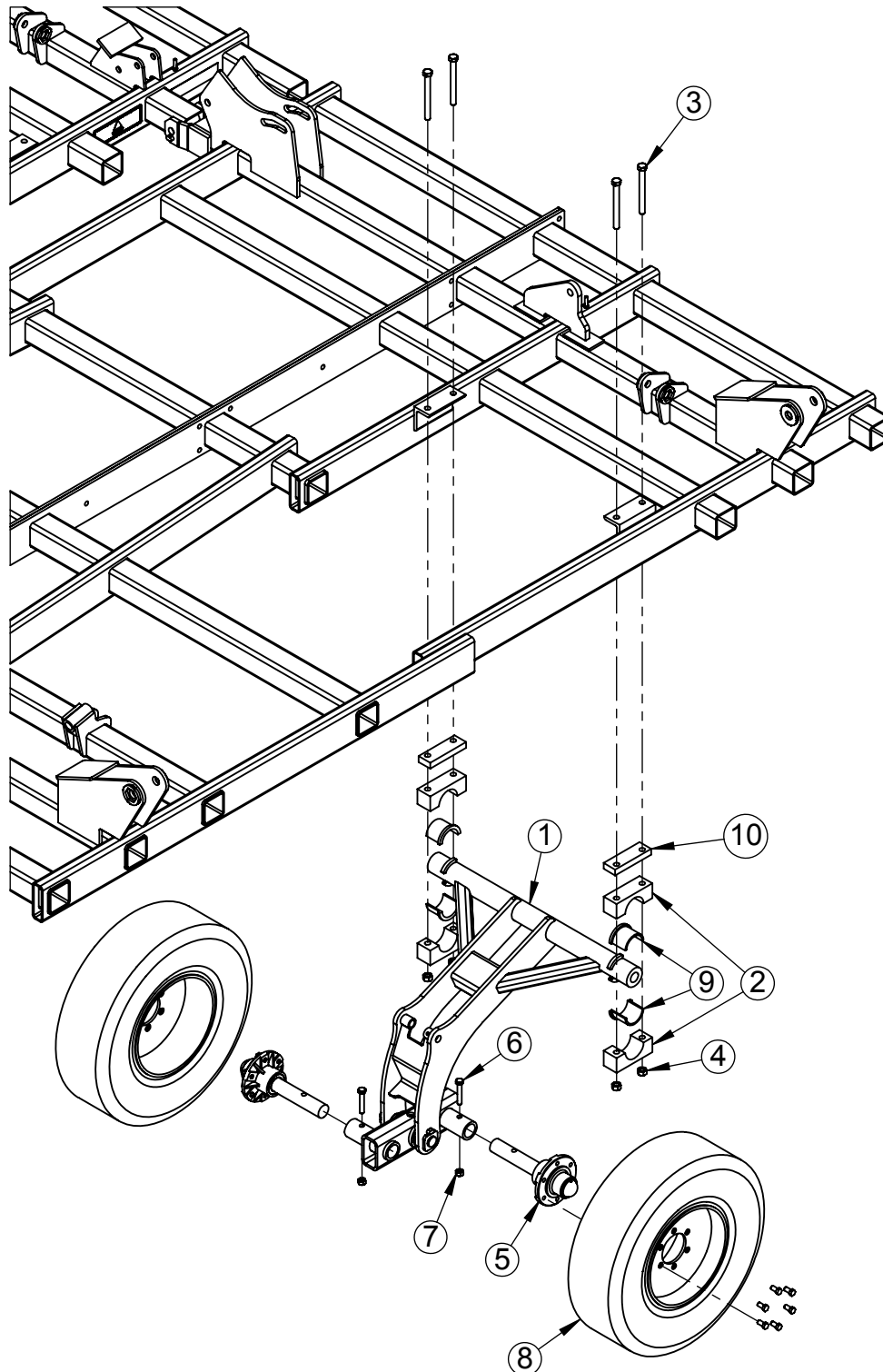
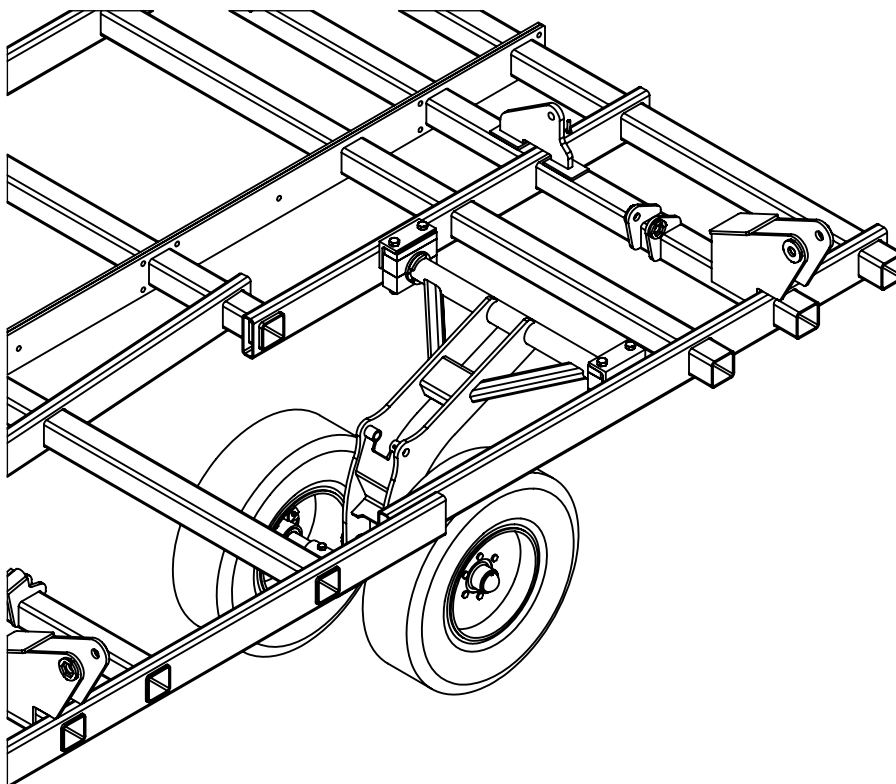


Fig.	Part no.	Qty	Description
1	760033075	1	Asy, Wing Rockshaft, LH
	760033076	1	Asy, Wing Rockshaft, RH (not shown)
2	760035257	8	Block, Wing Rockshaft
3	600355067	8	Bolt, 3/4" X 7-1/2" GR. 8
4	600366024	8	Nut, Toplock 3/4"
5	763011121	4	6 X 6 Hub (G35-6) & Spindle Assembly
6	600356116	4	Bolt, 5/8" X 3-1/2" GR. 5
7	600366031	4	Nut, Toplock 5/8"
8	600473104	4	Wheel Assembly 9.5L-15 Galaxy (6-Bolt)
9	760031258	8	Wear Sleeve Half
10	760035261	4	Spacer, Wing Rockshaft

See following page for part details



Wing Rockshaft Parts

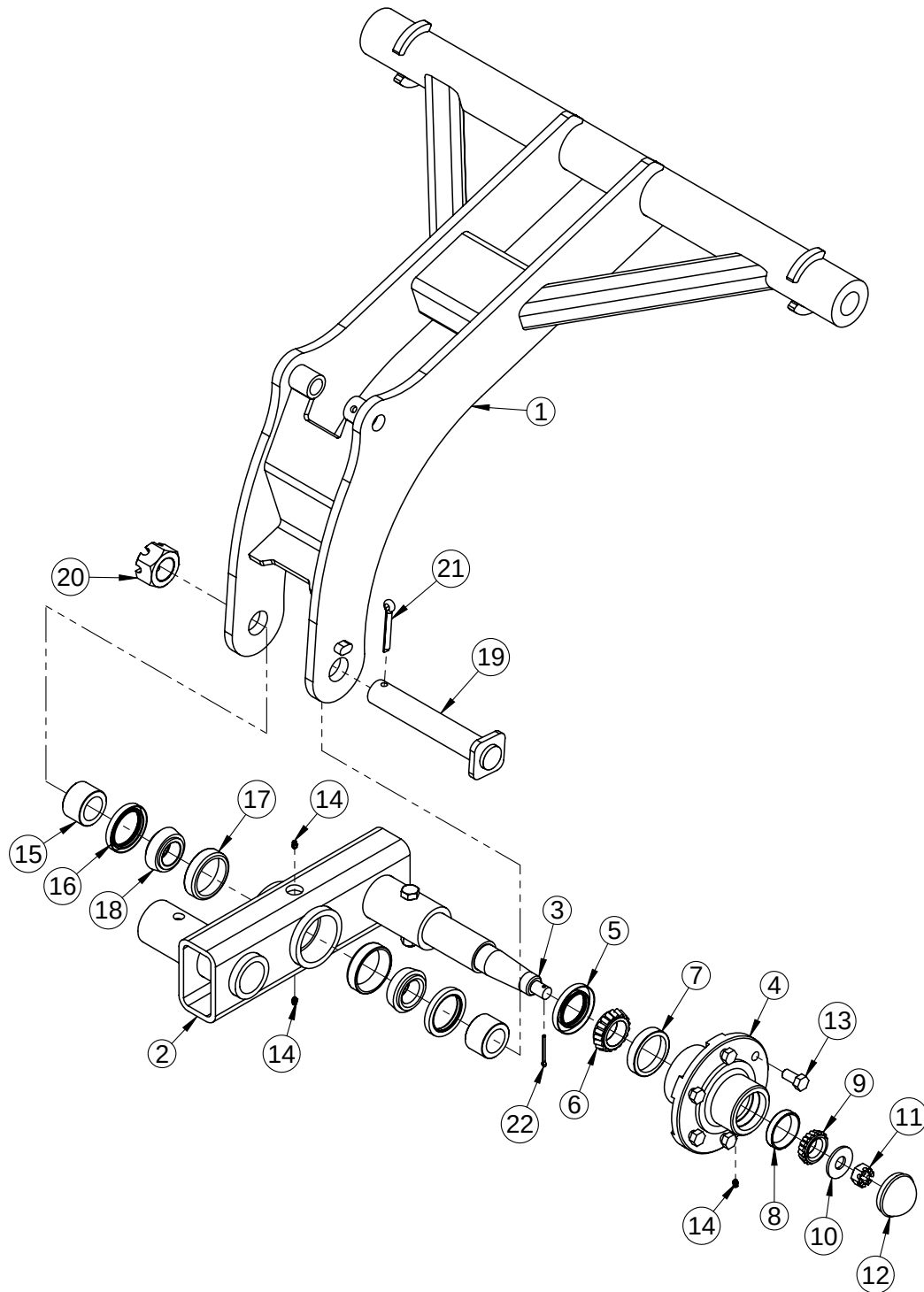
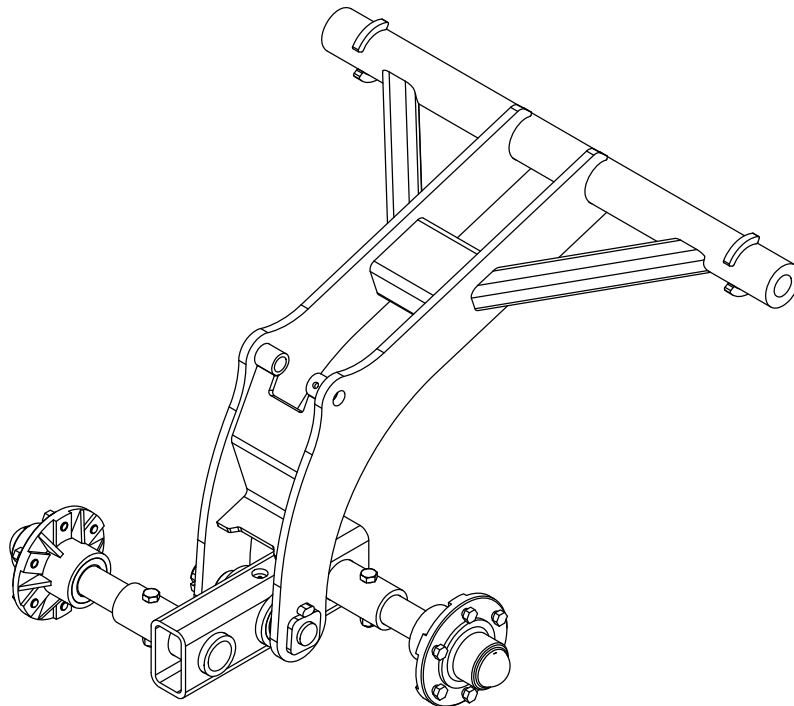


Fig.	Part no.	Qty	Description
1	760036102	1	Wing Rockshaft, Narrow
2	760032011	1	Wing Tandem
3	763012199	2	Spindle 2" O.D. x 15" w/Hole
-	763012198	2	Spindle 2" O.D. x 15" w/Hole Complete (Includes Items 3, 10, 11, 22)
4	763011269	2	6 Bolt Hub - 6" Bolt Circle G35-6 (Includes Items 4, 7, 8, 13, 14)
-	763011609	2	G35-6 Hub Assembly Complete (Includes Items 4-9, 12-14)
-	760013002	-	Kit, 6-Bolt Hub Bearing (Includes Items 5-12, 22)
5	7600473135	2	Seal, 2" w/Spring & Alternate Lip
6	76301129	2	Bearing - LM501349
7	76301135	2	Bearing Cup - LM501310
8	600452001	2	Bearing Cup - LM67010
9	600452000	2	Bearing Cone - LM67048
10	600381009	2	Flat Washer, 3/4"
11	76301153	2	3/4"-16 UNF Slotted Nut
12	76301143	2	Dust Cap
13	76301151	16	Lug Bolt, 9/16"-18 x 1-1/8"
14	600471000	4	GF-641 Grease Fitting
15	760031111	2	Tandem Spacer
16	7600473136	2	Seal, 2-1/4" w/spring, POS22530037TB-S
17	7600473114	2	Bearing Cup, Timken 2720
18	7600473115	2	Bearing Cone, Timken 2776
19	760032026	1	Tandem Pin Wdmt
20	7600366051	1	Slotted Nut, 1-1/2"-12 UNF Plated
21	600383025	1	Cotter Pin, 3/8" x 2-1/2"
22	76101249	2	Cotter Pin, 5/32" x 1-3/4"
Quantities listed are for each individual part in one complete wing rockshaft assembly			



Wing Lift Cylinder & Linkage Assembly

Instructions:

- Hardware included in bags 760033042, 760033043, 760033044
- Attach lift cylinder and linkage as shown, using parts listed on next page.
- On base end of cylinders, use pins which comes with cylinders - pins shown are for repair only.
- Adjust eyebolt to initial setting of about 4 3/8" as shown on next page.
- Repeat for opposite side and outer wings.

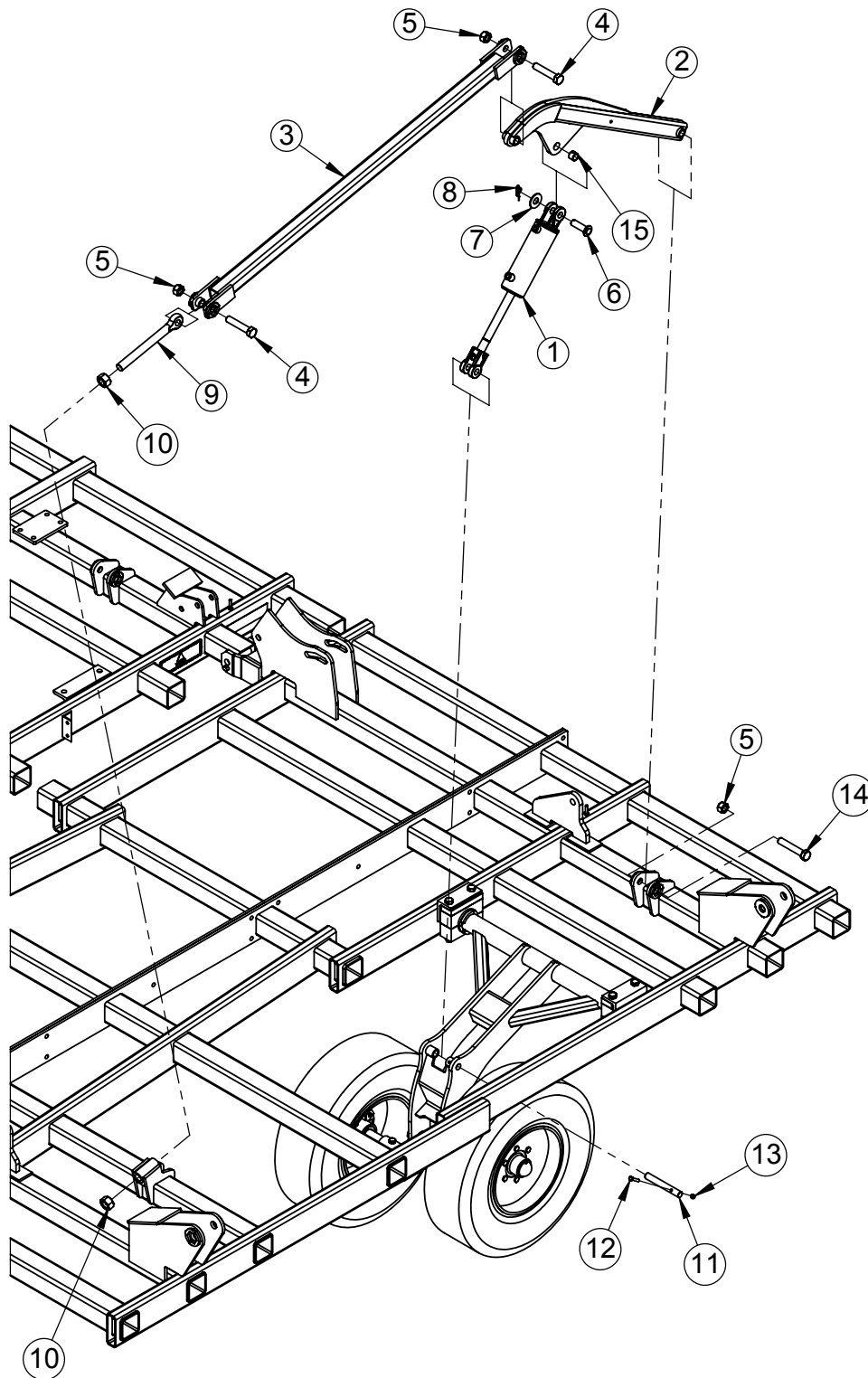
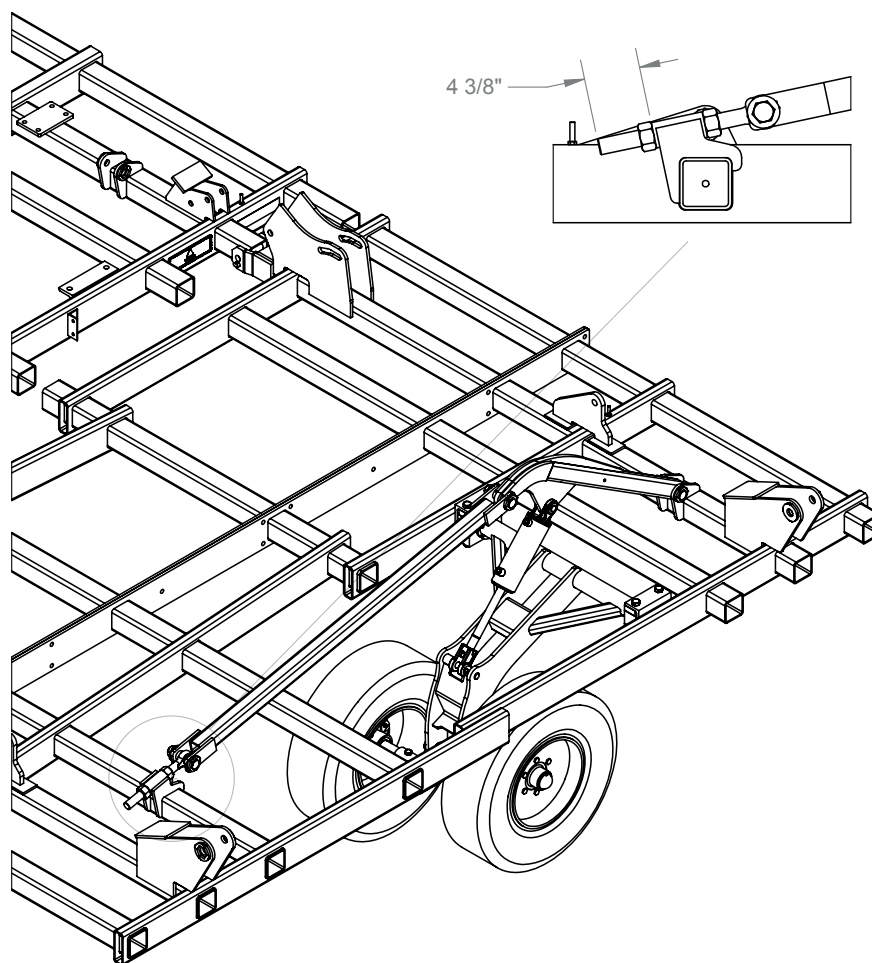


Fig.	Part no.	Qty	Description
1	<u>Intermediate Wing</u>		
	7600474663	2*	Cylinder 4" X 8" Welded Rephase - Monarch (Models 8248, 8246, 8244, 8242)
	7600474664	2*	Cylinder 3 3/4" X 8" Welded Rephase - Monarch (Models 8240, 8238, 8236)
	<u>Outer Wing</u>		
	7600474664	2*	Cylinder 3 3/4" X 8" Welded Rephase - Monarch (Models 8248, 8246, 8244, 8242)
	7600474665	2*	Cylinder 3 1/2" X 8" Welded Rephase - Monarch (Models 8240, 8238, 8236)
2	760033074	2	Asy, Cylinder Linkage
3	760032059	2	Leveling Linkage Tube Wdmt
4	600356101	4	Bolt, 1" X 5" GR. 5
5	600366032	6	Nut, Toplock 1"
6	7600383204	2	Pin, 1" - 75MM
7	600381018	2	Flat Washer, 1"
8	600383117	2	Ring Cotter Clip, 1"
9	600373119	2	Eye Bolt, 1 1/4"-7
10	600365064	4	Nut, 1 1/4"-7
11	760031113	2	Rockshaft Cylinder Pin
12	600356111	2	Bolt, 3/8" X 2" GR.5
13	600366028	2	Nut, Toplock 3/8"
14	600356029	2	Bolt, 1" X 5-1/2" GR.5
15	7600383216	2	Spring Bushing 1"



Outer Wing Assembly

Instructions:

- Hardware included in bags 760033020, 760033044
- Bolt together wing frames as shown, using hardware listed on next page (8248 is only model with two-piece outer wing) and then attach to center frame. Use steel shop stands to support the wings until lift and fold hydraulics are installed and working.
- Repeat for opposite side

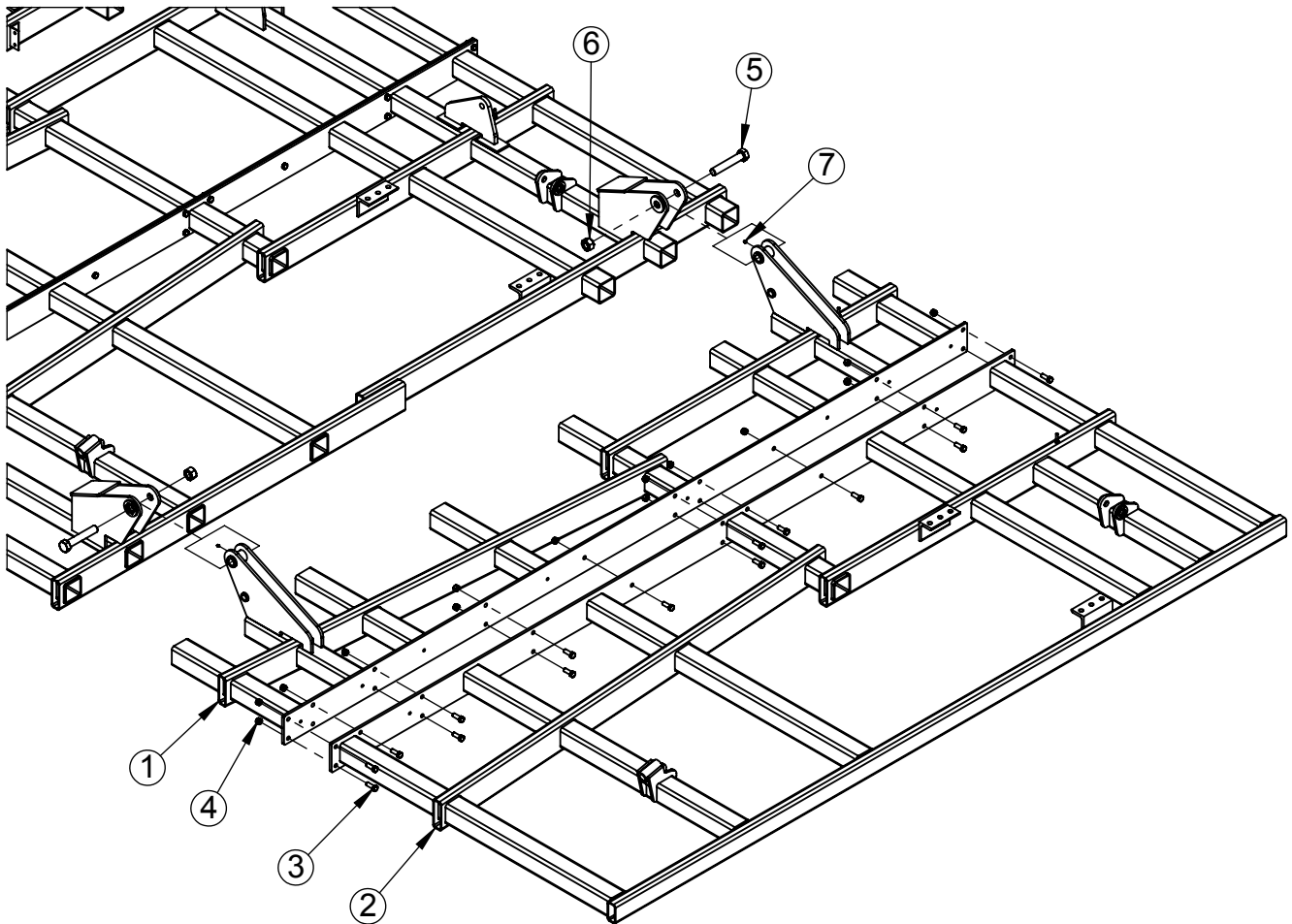
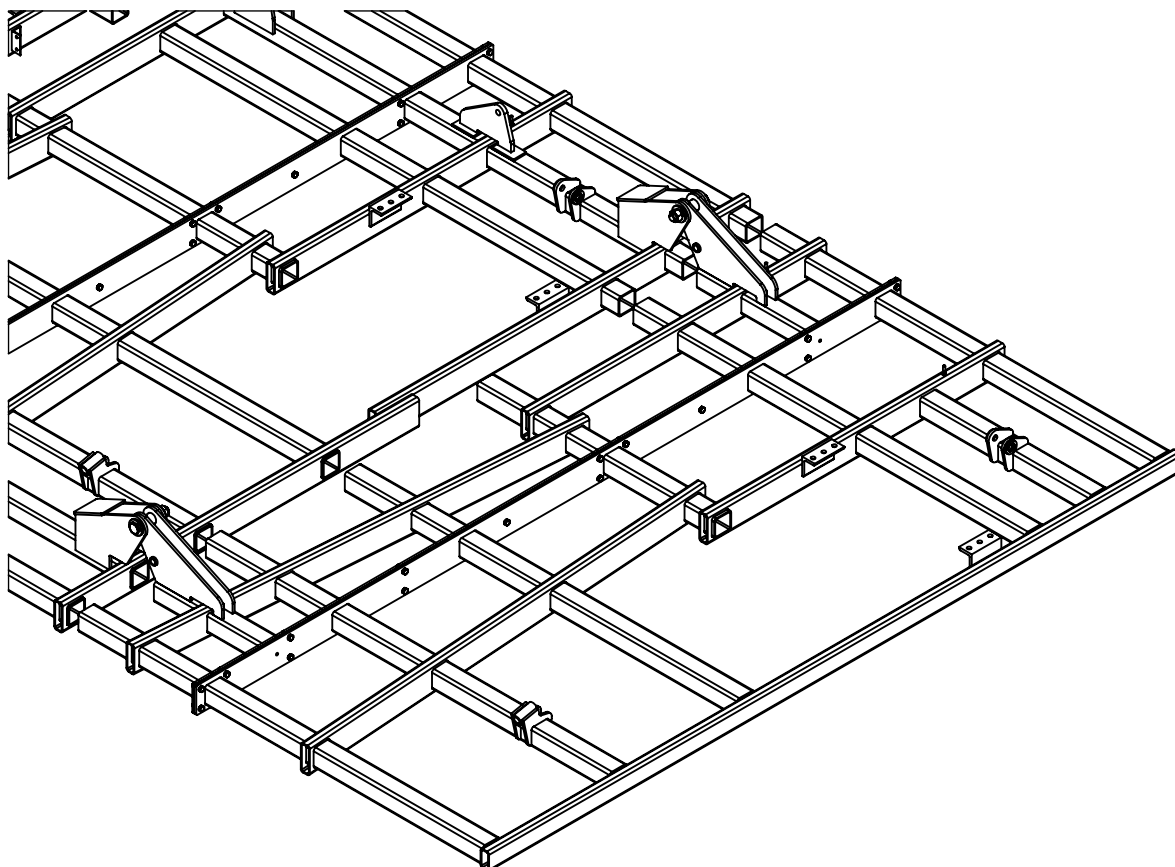


Fig.	Part no.	Qty	Description
1	760033112	1	Asy, Wing Frame, 2.5' Outer Pivot, LH, DF (Models 8248)
	760033110	1	Asy, Wing Frame, 7' Outer, LH, DF (Models 8246, 8244)
	760033108	1	Asy, Wing Frame, 6' Outer, LH, DF (Model 8242)
	760033106	1	Asy, Wing Frame, 5' Outer, LH, DF (Model 8240, 8238, 8236)
1b	760033113	1	Asy, Wing Frame, 2.5' Outer Pivot, RH (Model 8248) (not shown)
	760033111	1	Asy, Wing Frame, 7' Outer, RH, DF (Models 8246, 8244) (not shown)
	760033109	1	Asy, Wing Frame, 6' Outer, RH, DF (Model 8242) (not shown)
	760033107	1	Asy, Wing Frame, 5' Outer, RH, DF (Models 8240, 8238, 8236) (not shown)
2	760033088	1	Asy, Wing Frame, 5.5' Outer, LH (Model 8248)
2b	760033089	1	Asy, Wing Frame, 5.5' Outer, RH (Model 8248) (not shown)
3	600356023	36	Bolt, 5/8" X 1 3/4" GR. 5
4	600366031	36	Nut, Toplock 5/8"
5	600355033	4	Bolt, 1-1/4" X 7" GR. 8
6	600366032	4	Nut, Toplock, 1"



Outer Fold Cylinder Assembly

Instructions:

- Hardware included in bag 760033044
- Attach fold cylinders to intermediate and outer wing frames as shown, using parts listed on next page.
- Install cylinders with ports facing the rear.
- On base end of cylinders, use pins which comes with cylinders - pins shown are for repair only.

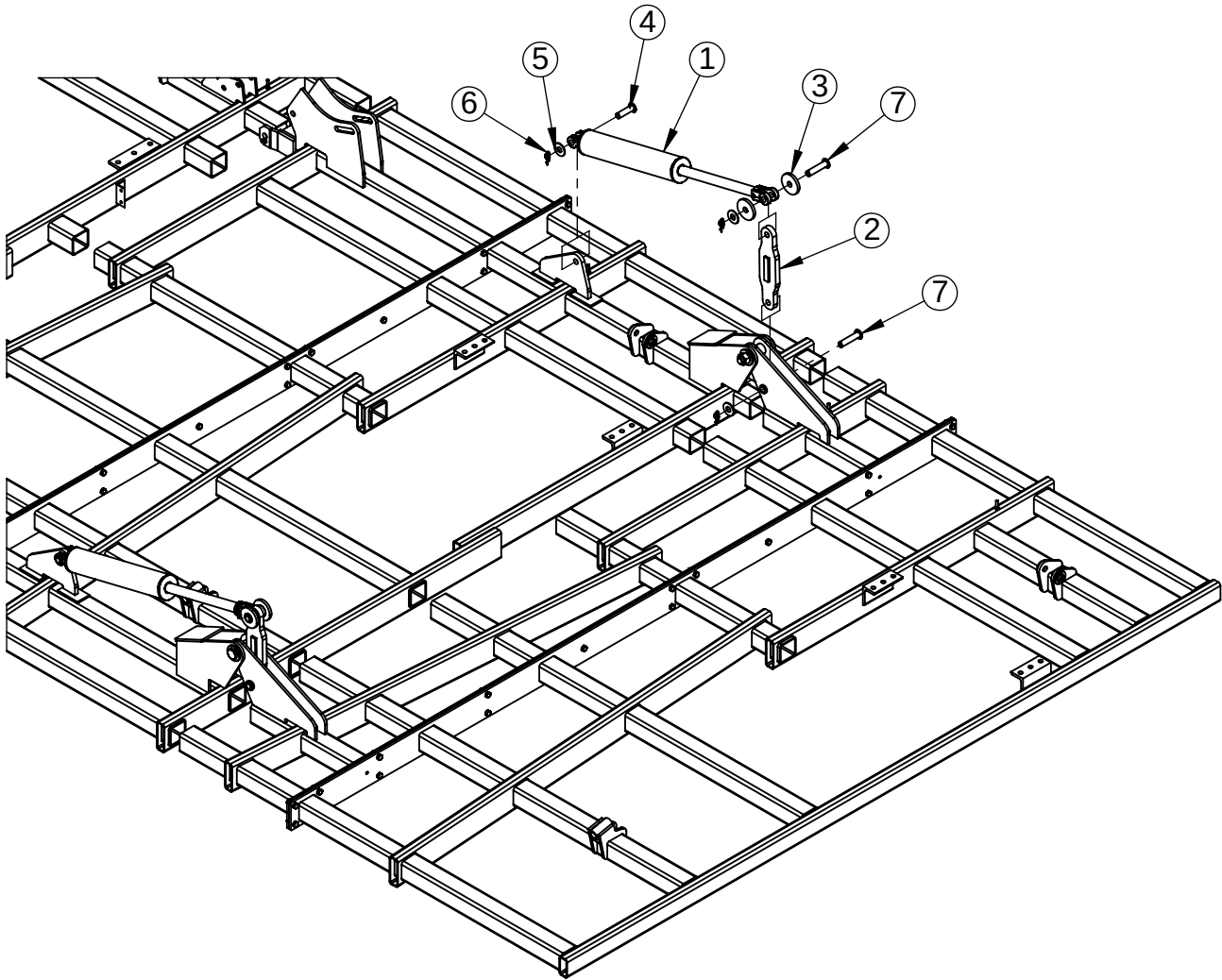
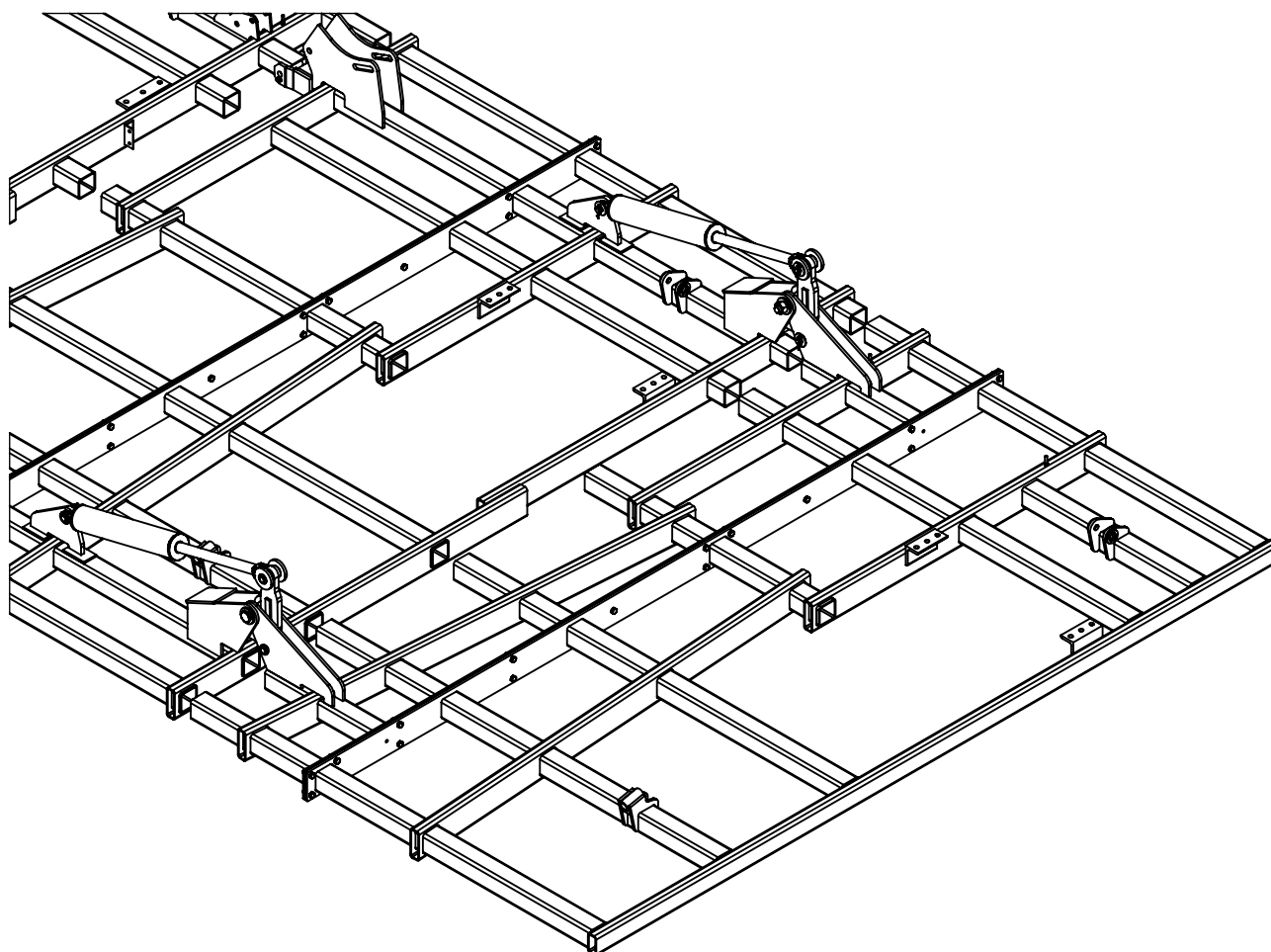


Fig.	Part no.	Qty	Description
1	7600474676	4*	Cylinder 4" X 20" Welded - Monarch (Model 8248, 8246, 8244, 8242)
	7600474677	4*	Cylinder 3 1/2" X 20" Welded - Monarch (Models 8240, 8238, 8236)
2	760032087	4	Float Linkage Wdmt (Models 8248, 8246, 8244, 8242)
	760032089	4	Float Linkage Wdmt, Long (Models 8240, 8238, 8236)
3	760031147	8	Roller Disc
4	600383136	4	Pin, 1" - 85MM
5	600381018	12	Flat Washer, 1"
6	600383117	12	Ring Cotter Clip, 1"
7	600383110	4	Pin, 1" - 107MM



Outer Wing Rockshafts and Linkages

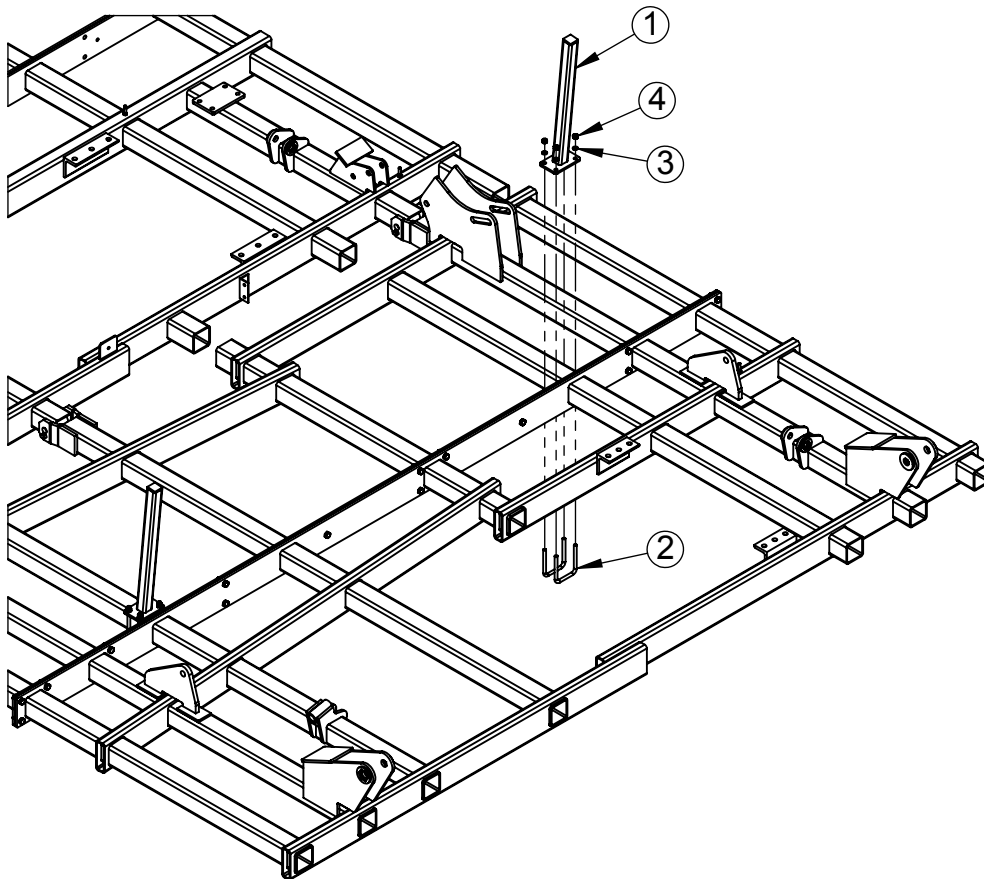
Instructions:

-Install wing rockshafts and linkages to outer wings in the same manner as the intermediate wings.
See pages 24 - 29.

Wing Fold Stands

Instructions:

-Hardware included in bag 760033045
-Attach wing stands to intermediate frame using hardware listed on next page. Mount wing stand so they are leaning outwards.
-Use layout code and diagram on next page for proper placement of wing stands.



Layout Codes

Model 8248: 4in Spacing - AB
6in Spacing - AC

Model 8246: DE

Model 8244: DE

Model 8242: DE

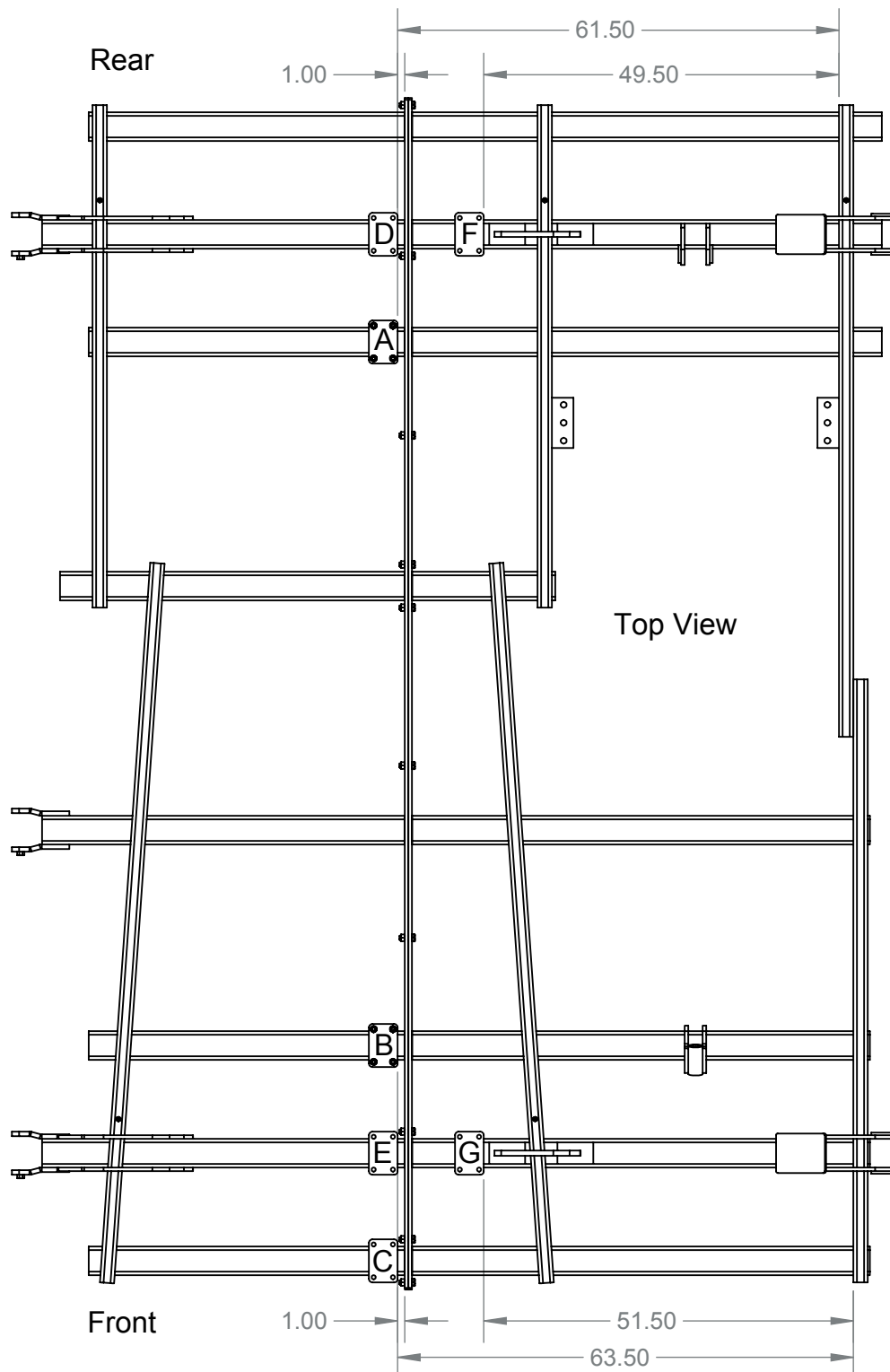
Model 8240: FG

Model 8238: FG

Model 8236: FG



Fig.	Part no.	Qty	Description
1	760032052	4	Wing Stand Wdmt, Short (Models 8248, 8246, 8244, 8242)
	760032088	4	Wing Stand Wdmt, Tall (Models 8240, 8238, 8236)
2	7600373131	8	U-Bolt, 1/2" X 4" X 5.25"
3	600382053	16	Lockwasher, 1/2"
4	600365009	16	Standard Nut, 1/2"



Tine Assembly

Instructions:

-Install tine/coil assemblies onto cultivator.

-Use tine layouts in Tine & Harrow Layout Manual 760000231 for proper placement.

1. Place coil clamp and bolt onto frame

2. Insert tine/coil assembly through clamp and bolt to frame.

-Tighten bolt so that front of clamp bends down about 10°. See image on next page.

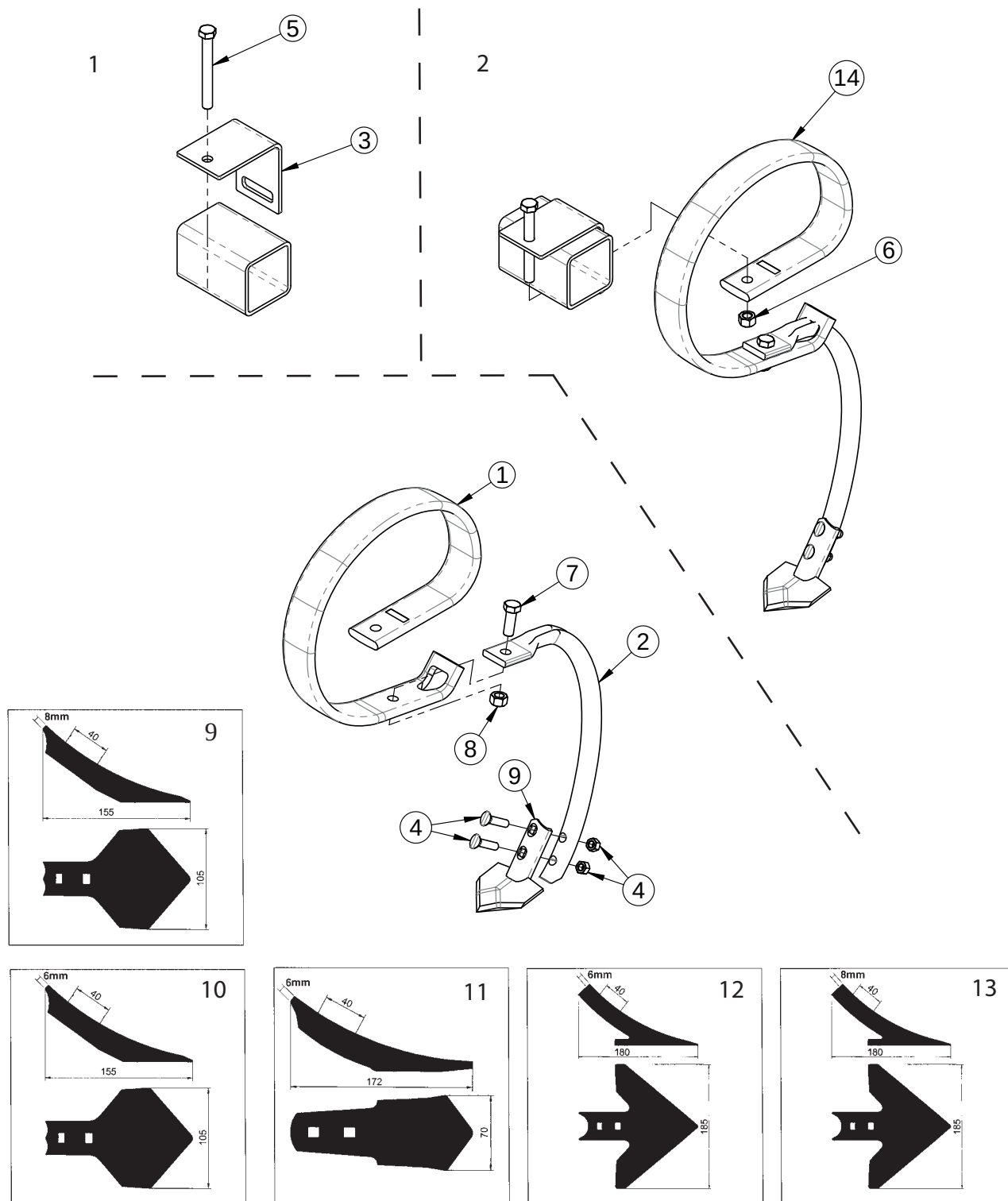
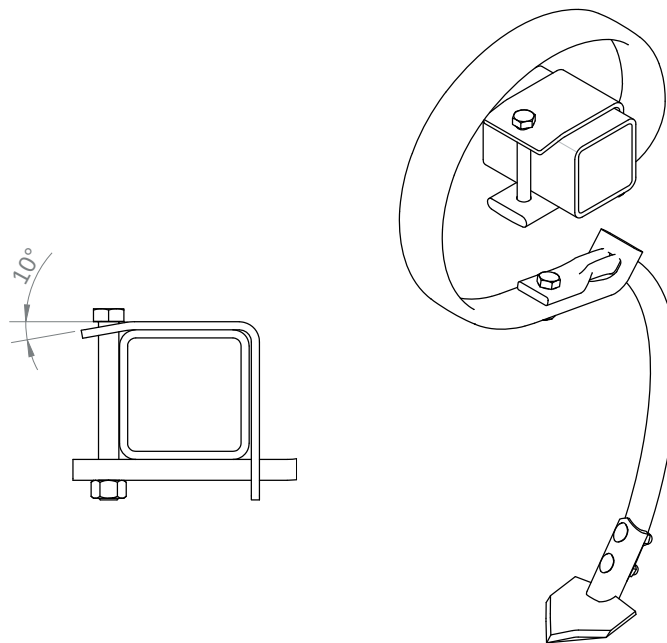


Fig.	Part no.	Qty	Description
1a	101003154	1	16.3mm Coil
1b	101003159	1	13.3mm Coil
2	101000837	1	Stem, 50mm x 10mm
3a	760031123	1	16.3mm Coil Clamp
3b	760031122	1	13.3mm Coil Clamp
4	6100323128	2	M12 x 48mm Share Bolt with Hex Nut
5	600355030	1	Bolt, 5/8" x 5-1/2" - UNC Gr.8
6	600366031	1	Nut, Toplock 5/8" - UNC
7	600373076	1	Bolt, 5/8" x 1-3/4" - UNF Gr.8
8	600366025	1	Nut, Toplock 5/8" - UNF
9	101002004	1	4" 8mm Heavy Duty Sweep
10	101002003	-	4" 6mm Sweep
11	101002002	-	2-3/4" 6mm Heavy Duty Goosefoot Share
12	101002005	-	7" 6mm Sweep
13	101002006	-	7" 8mm Heavy Duty Sweep
14a	760033023	-	VTH - 16.3mm Tine and Coil Assembly (Includes Items 1a,2,7,8)
14b	760033022	-	VTH - 13.3mm Tine and Coil Assembly (Includes Items 1b,2,7,8)
	760034001U	-	VTH - 16.3mm Heavy Duty Tine Package (Includes Items 3a,4,5,6,14a)
	760034000U	-	VTH - 13.3mm Standard Duty Tine Package (Includes Items 3b,4,5,6,14b)

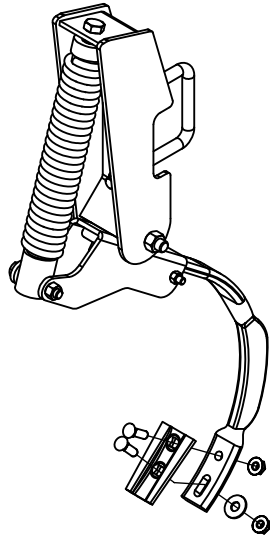


C-Shank Assembly (Option)

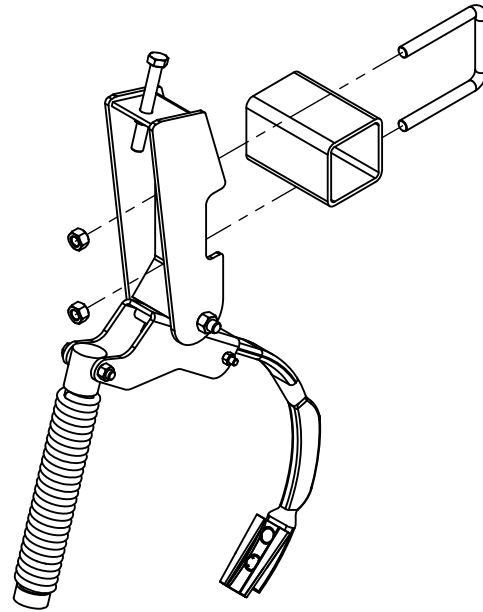
Instructions:

-Use 6" tine layouts in Tine & Harrow Layout Manual 760000231 for proper placement of shanks.

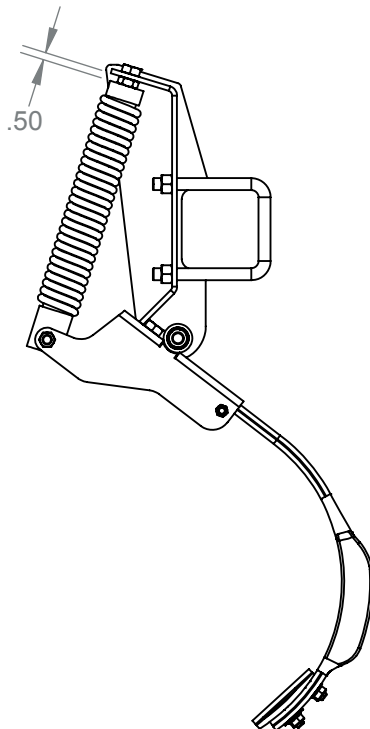
1. Attach quick change bracket to c-shank assembly.
2. Detach spring from top bolt and install c-shank assembly on implement with u-bolt.
3. Re-attach spring with top bolt and tighten down until there is only a 1/2" gap between the spring insert and tower plate. Lock in place with jam nut.
4. Install quick change spring and sweep using instructions provided with tool.



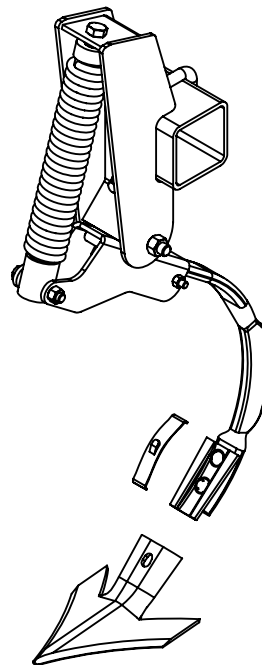
1.



2.



3.

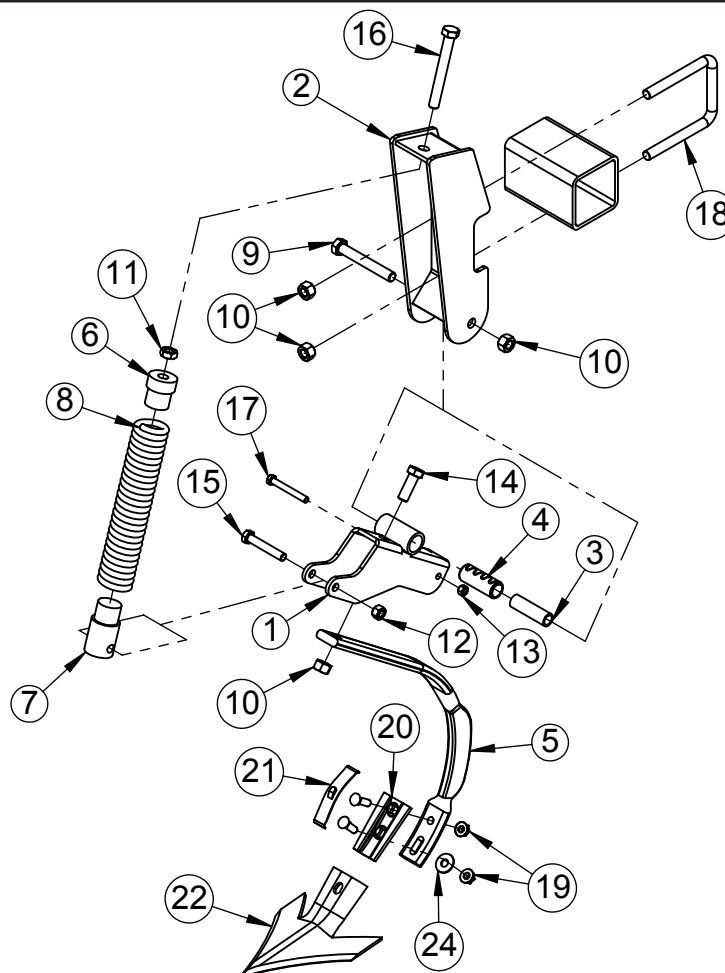


4.



Fig.	Part no.	Qty	Description
1	7601000556	1	Pivot Bracket Wdmt
2	7601000557	1	Tower Wdmt
3	7601000550	1	Inner Pivot Bushing
4	7600383218	1	2-7/8" Connex Bushing
5	601000501	1	C-Shank Stem
6	601000511	1	Spring Insert - Top
7	601000512	1	Spring Insert - Bottom
8	601000510	1	Coil Spring
9	600356014	1	Bolt, 5/8" x 4-1/2" Gr.5, UNC
10	600366031	4	Nut, Toplock - 5/8"
11	600365013	1	Jam Nut, 5/8"
12	600366030	1	Nut, Toplock - 1/2"
13	600366028	1	Nut, Toplock- 3/8"
14	600356023	1	Bolt, 5/8" X 1 3/4" GR. 5
15	600356003	1	Bolt, 1/2" X 3" GR. 5
16	600373072	1	Bolt, 5/8" X 5" Full Thread GR. 5
17	600356019	1	Bolt, 3/8" X 3" GR. 5
18	600373058	1	U-Bolt, 5/8" X 4" X 5 1/2"
19	76101002012	2	7/16" X 1-1/2" Plow Bolt w/nut
20	76101002008	1	Quick Change Bracket
21	76101002010	1	Quick Change Retainer Spring
22	76101002007	1	7" Ultrawing - Quick Change Sweep
	76101002009	-	9" Ultrawing - Quick Change Sweep
23	76101002011	-	Quick Change Tool (not shown)
24	600381007	1	Flat Washer, 7/16"

Items 1-21 & 24 included in
760034005 C-Shank Assembly



Gauge Wheel Assembly

Instructions:

- Hardware included in bag 760033057
- After tines have been installed, assemble gauge wheels to outer front corners of intermediate and outer wing frames as shown, using the parts listed on next page.
- Location will vary depending on tine spacing (gauge wheel not to extend beyond frame edge).
- RH gauge wheels will be installed on left side of machine; LH gauge wheels will be installed on right side of machine. (Wheels need to be on the inside of the arms to swivel correctly.)

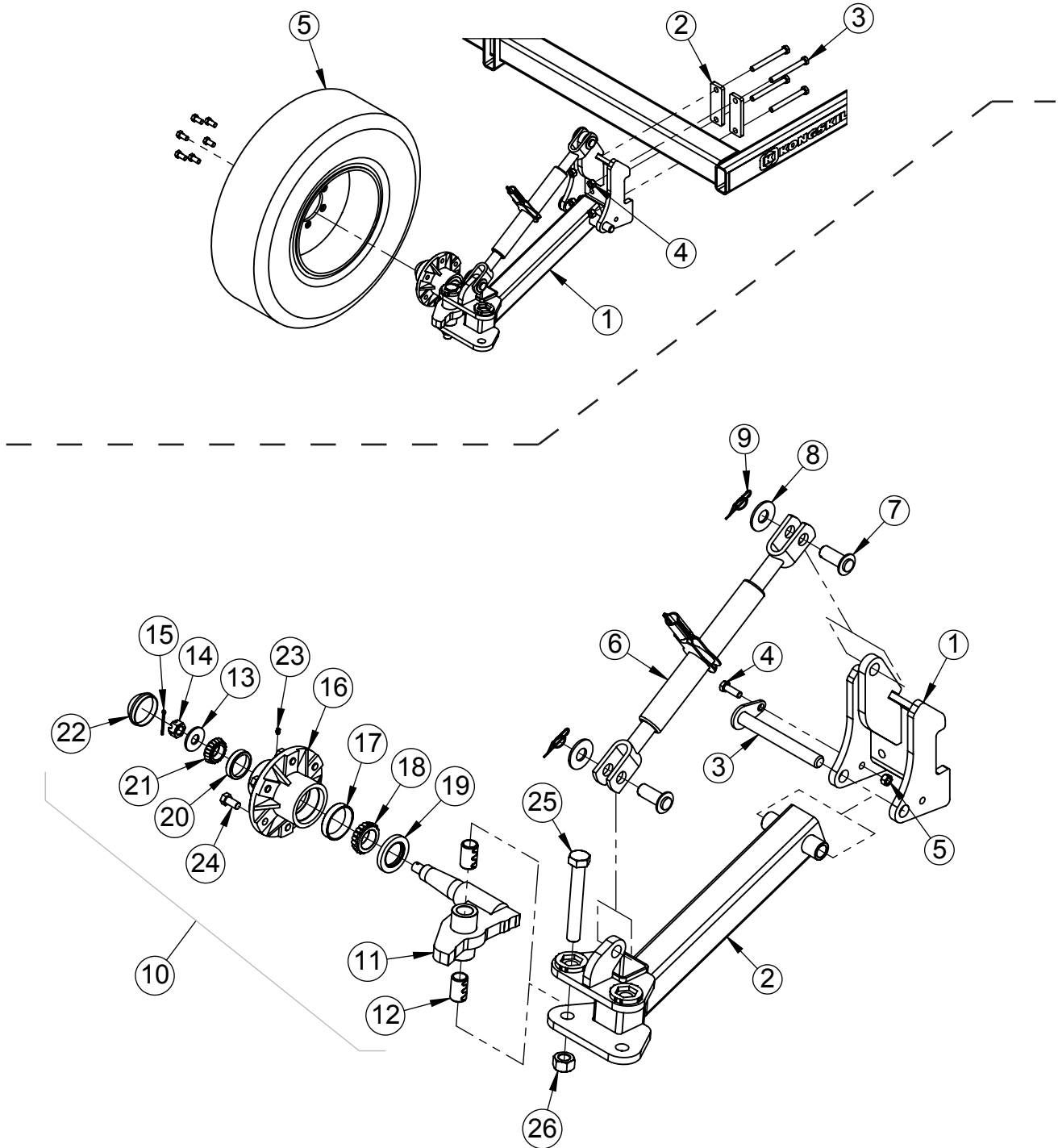


Fig.	Part no.	Qty	Description
1	760033063	1	Swivel Gauge Wheel Assembly, RH
	760033064	1	Swivel Gauge Wheel Assembly, LH (not shown)
2	760035229	2	Plate, Mounting
3	600356123	4*	Hex Bolt, 5/8" X 6" GR. 5
4	600366031	4*	Nut, Toplock 5/8"
5	600473104	1*	Wheel Assembly, 9.5L X 15 8-PLY
	<u>PART DETAILS</u>		
1	760036093	1	Gauge Wheel Mount Bracket
2	760036092	1	Gauge Wheel Arm
3	7600383215	1	Gauge Wheel Pivot Pin 1"
4	600356109	1	Bolt, 1/2" X 1-1/2" GR.5
5	600366030	1	Nut, Toplock 1/2"
6	600600267	1	Turnbuckle - SL154
7	600383108	2	Pin, 1" - 55MM
8	600381018	2	Flat Washer, 1"
9	600383117	2	Ring Cotter Clip 1"
10	760033062	1	Hub & Spindle Assembly, Swivel (Includes Items
11	760036094	1	Spindle Assembly, Swivel (Includes Items 13, 14, 15)
12	7600383217	2	Connex Bushing, 2" LG
13	600381009	1	Flat Washer, 3/4"
14	76301153	1	Slotted Nut, 3/4" UNF
15	76101249	1	Cotter Pin, 5/32" x 1-3/4"
16	763011269	1	6 Bolt Hub - 6" Bolt Circle G35-6 (Includes Items 17, 20, 23, 24)
-	763011609	1	G35-6 Hub Assembly Complete (Includes Items 16-24)
-	760013002	-	Kit, 6-Bolt Hub Bearing (Includes Items 13-15, 17-22)
17	76301135	1	Bearing Cup - LM501310
18	76301129	1	Bearing Cone - LM501349
19	7600473135	1	Seal, 2" W/Spring & Alternate Lip
20	600452001	1	Bearing Cup - LM67010
21	600452000	1	Bearing Cone - LM67048
22	76301143	1	Dust Cap
23	600471000	1	GF-641 Grease Fitting
24	76301151	6	Lug Bolt, 9/16"-18 x 1-1/8"
25	600355025	1	Hex Bolt, 1" X 7" GR. 8
26	600355032	1	Nut, Toplock 1"

Rear Jack Assembly

Instructions:

-Install rear jack bracket onto rear bar of center mainframe with hardware provided. It is recommended to located bracket as near to the center of the cultivator as possible for better stability.

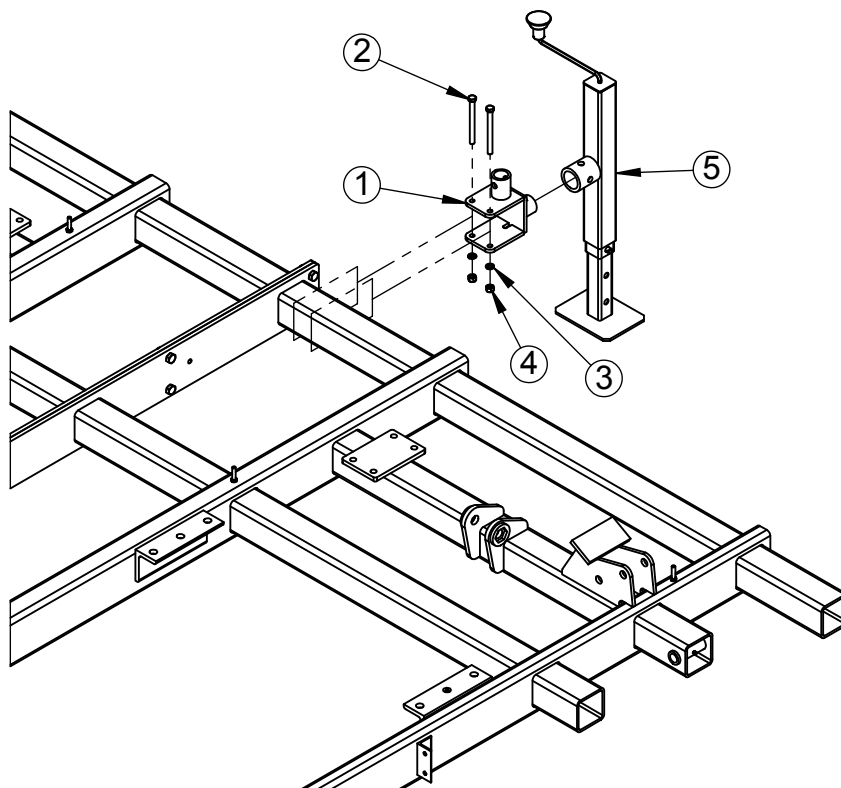
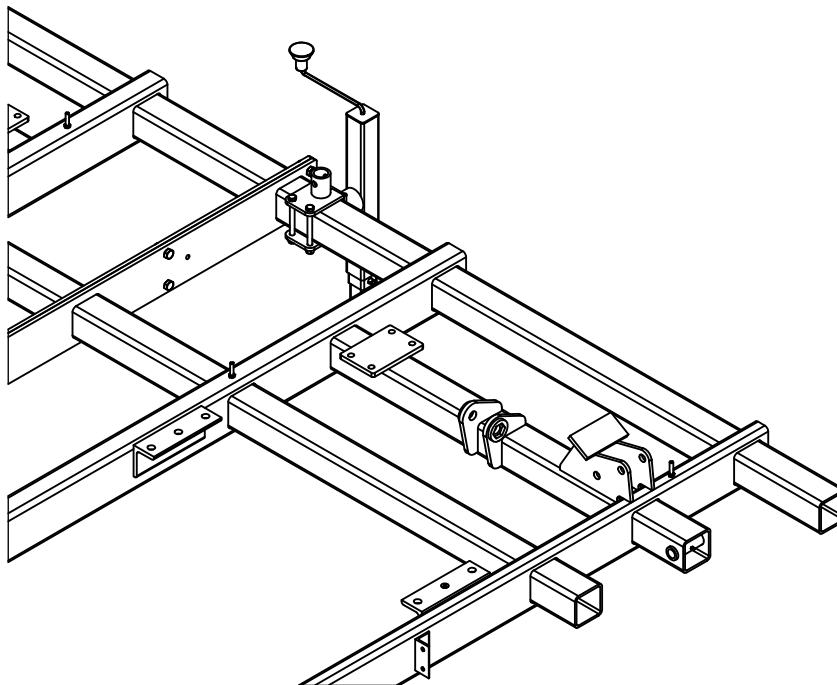


Fig.	Part no.	Qty	Description
1	760032058	1	Rear Jack Bracket
2	600356134	2	Bolt, 1/2" X 5-1/2" GR.5
3	600382053	2	Lockwasher, 1/2"
4	600365009	2	Nut, 1/2"
5	601231223	1	Jack TWL 190 DL-B



Hydraulic Tree Assembly

Instructions:

- Hardware included in bag 760033045. Fittings included in hydraulic kits.
- Attach hydraulic hose tree to fold cylinder base weldment using hardware listed on next page.
- Locate tree directly above the inner frame rail on the left mainframe.
- It is recommended to install bulkhead fittings (included in hydraulic kit) one at a time from top down while routing hydraulic hoses.

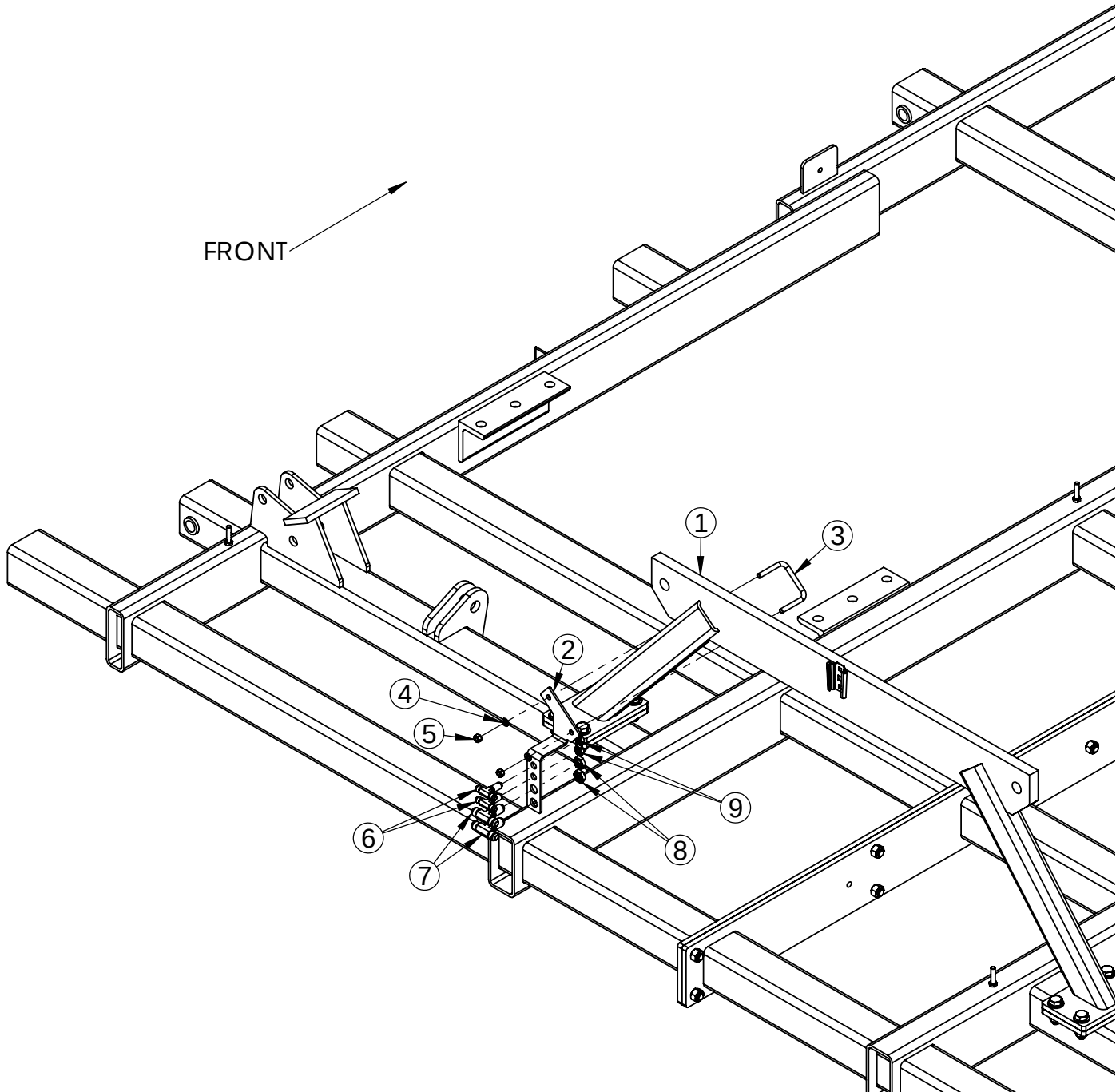
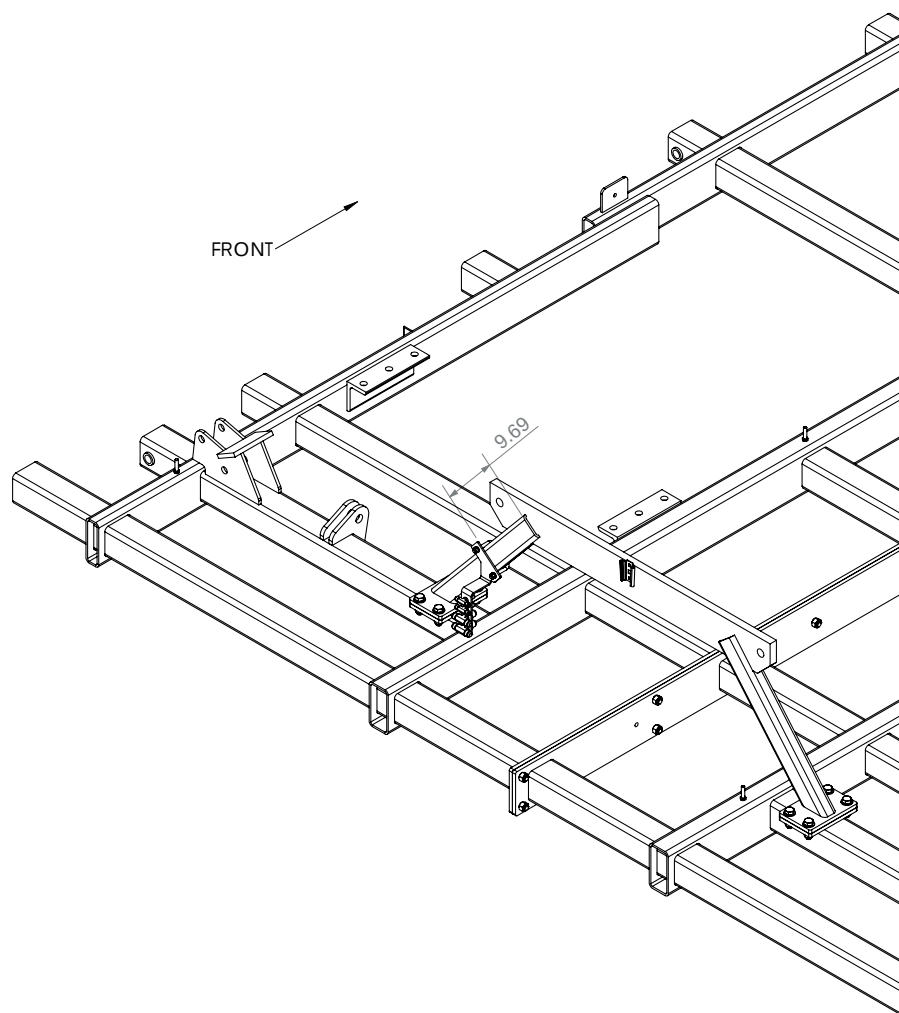


Fig.	Part no.	Qty	Description
1	760032020	1	Fold Cylinder Base Mount Wdmt
2	760031115	1	Hyd Hose Tree
3	7600373129	1	U-Bolt, 3/8" x 3" x 2-3/4"
4	600382051	2	Lock Washer, 3/8"
5	600365008	2	Standard Nut, 3/8"
6	7600470474	2	#6 MJIC Bulkhead Tee
7	7600470475	2	#8 MJIC Bulkhead Tee
8	7600470477	2	#8 JIC Bulkhead Nut
9	7600470476	2	#6 JIC Bulkhead Nut



Lift Hydraulics

Instructions:

- Hardware included in bag 760033045 & 760033016
- Connect hydraulic fittings and hoses as shown in this schematic. Refer to Appendix A for detailed routing information.
- Secure hoses with hold downs provided.

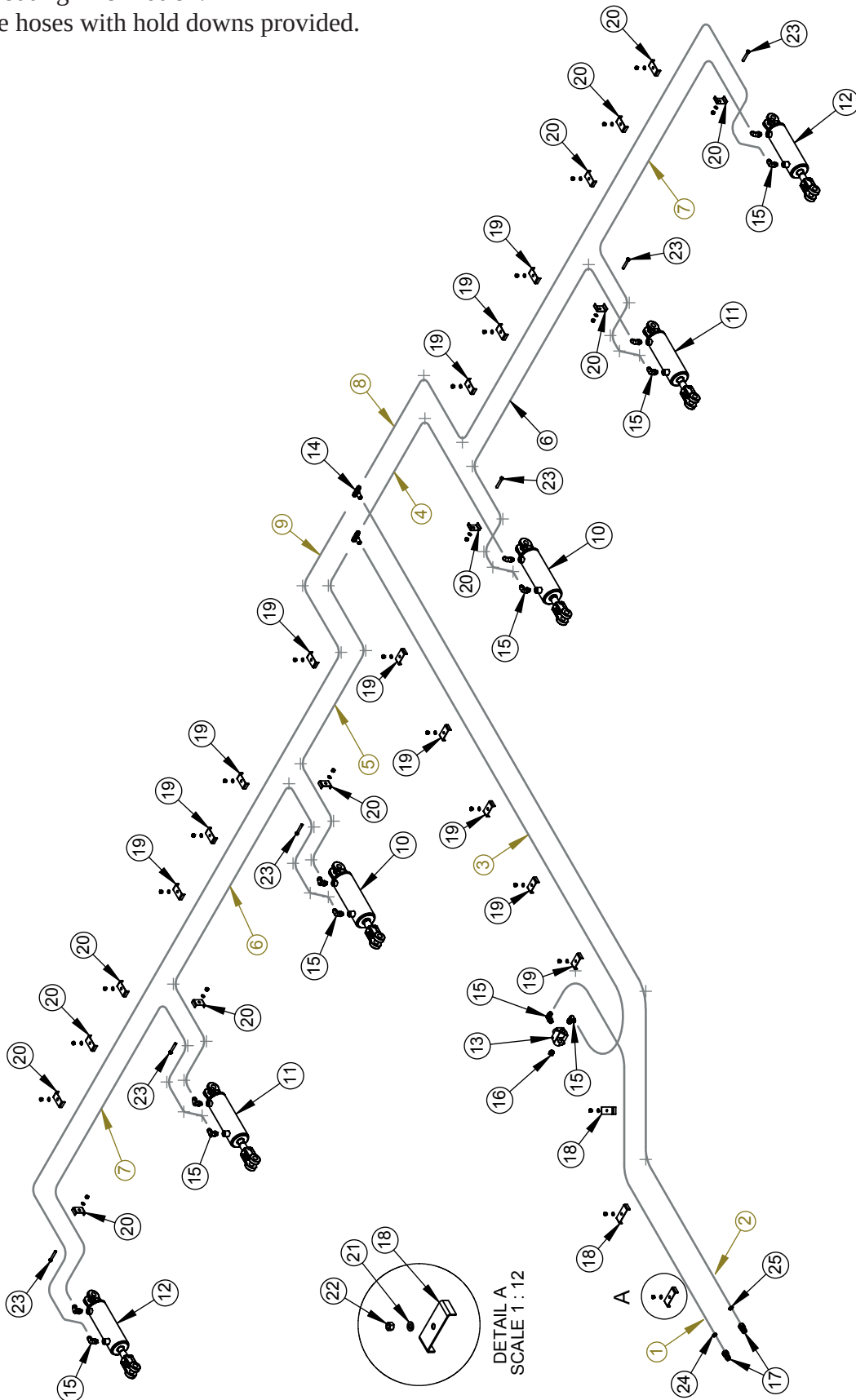


Fig.	Part no.	Qty	Description
1	7600470478	1	Hyd Hose - 3/8" x 1/2" MPT x #8 FJIC - 204"
2	76202277	1	Hyd Hose - 3/8" x 1/2" MPT x #8 FJIC - 336"
3	7600470479	1	Hyd Hose - 3/8" x #8 FJIC x #8 FJIC - 170"
4	7600470480	1	Hyd Hose - 3/8" x #8 FJIC x #8 FJIC - 64"
5	7600470481	1	Hyd Hose - 3/8" x #8 FJIC x #8 FJIC - 108"
6	76202111	2	Hyd Hose - 3/8" x #8 FJIC x #8 FJIC - 216" (Models 8248, 8246)
	7600470482	2	Hyd Hose - 3/8" x #8 FJIC x #8 FJIC - 204" (Models 8244, 8242, 8240)
	600470456	2	Hyd Hose - 3/8" x #8 FJIC x #8 FJIC - 192" (Model 8238)
	76202112	2	Hyd Hose - 3/8" x #8 FJIC x #8 FJIC - 180" (Model 8236)
7	7600470482	2	Hyd Hose - 3/8" x #8 FJIC x #8 FJIC - 204" (Model 8248)
	600470456	2	Hyd Hose - 3/8" x #8 FJIC x #8 FJIC - 192" (Models 8246, 8244)
	76202112	2	Hyd Hose - 3/8" x #8 FJIC x #8 FJIC - 180" (Model 8242)
	76202198	2	Hyd Hose - 3/8" x #8 FJIC x #8 FJIC - 168" (Models 8240, 8238, 8236)
8	7600470499	1	Hyd Hose - 3/8" x #8 FJIC x #8 FJIC - 308" (Model 8248)
	7600470500	1	Hyd Hose - 3/8" x #8 FJIC x #8 FJIC - 296" (Model 8246)
	76202268	1	Hyd Hose - 3/8" x #8 FJIC x #8 FJIC - 284" (Model 8244)
	7600470493	1	Hyd Hose - 3/8" x #8 FJIC x #8 FJIC - 272" (Model 8242)
	7600470501	1	Hyd Hose - 3/8" x #8 FJIC x #8 FJIC - 260" (Model 8240)
	7600470483	1	Hyd Hose - 3/8" x #8 FJIC x #8 FJIC - 248" (Model 8238)
	7600470485	1	Hyd Hose - 3/8" x #8 FJIC x #8 FJIC - 236" (Model 8236)
9	7600470502	1	Hyd Hose - 3/8" x #8 FJIC x #8 FJIC - 352" (Model 8248)
	7600470503	1	Hyd Hose - 3/8" x #8 FJIC x #8 FJIC - 340" (Model 8246)
	7600470504	1	Hyd Hose - 3/8" x #8 FJIC x #8 FJIC - 328" (Model 8244)
	7600470505	1	Hyd Hose - 3/8" x #8 FJIC x #8 FJIC - 316" (Model 8242)
	7600470506	1	Hyd Hose - 3/8" x #8 FJIC x #8 FJIC - 304" (Model 8240)
	7600470507	1	Hyd Hose - 3/8" x #8 FJIC x #8 FJIC - 292" (Model 8238)
	7600470462	1	Hyd Hose - 3/8" x #8 FJIC x #8 FJIC - 280" (Model 8236)
10	7600474662	2	Cylinder 4-1/4" x 8" Welded Rephase - Monarch (Models 8248, 8246, 8244, 8242)
	7600474663	2	Cylinder 4" x 8" Welded Rephase - Monarch (Models 8240, 8238, 8236)
11	7600474663	2	Cylinder 4" x 8" Welded Rephase - Monarch (Models 8248, 8246, 8244, 8242)
	7600474664	2	Cylinder 3-3/4" x 8" Welded Rephase - Monarch (Models 8240, 8238, 8236)
12	7600474664	2	Cylinder 3-3/4" x 8" Welded Rephase - Monarch (Models 8248, 8246, 8244, 8242)
	7600474665	2	Cylinder 3-1/2" x 8" Welded Rephase - Monarch (Models 8240, 8238, 8236)
13	7600470491	1	Single Point Valve
14	7600470475	2	#8 MJIC Bulkhead Tee
15	76201002	14	#8 MJIC x #8 Male ORB 90°
16	600470338	1	#8 ORB Plug
17	76201028	2	1/2" Female NPT-Pioneer Male Tip
18	76400080	3	4 Hose Holdown - Black
19	76400463	12	3 Hose Holdown
20	76400117	12	2 Hose Holdown
21	600382051	27	Lock Washer, 3/8"
22	600365008	27	Standard Nut, 3/8"
23	76101130	6	Bolt, 3/8" x 3-1/2" Gr. 5
24	7600470519	1	Band, Red
25	7600470520	1	Band, Blue

Fold Hydraulics

Instructions:

- Hardware included in bag 760033045 & 760033016
- Connect hydraulic fittings and hoses as shown in this schematic. Refer to Appendix A for detailed routing information.
- Secure hoses with hold downs provided.

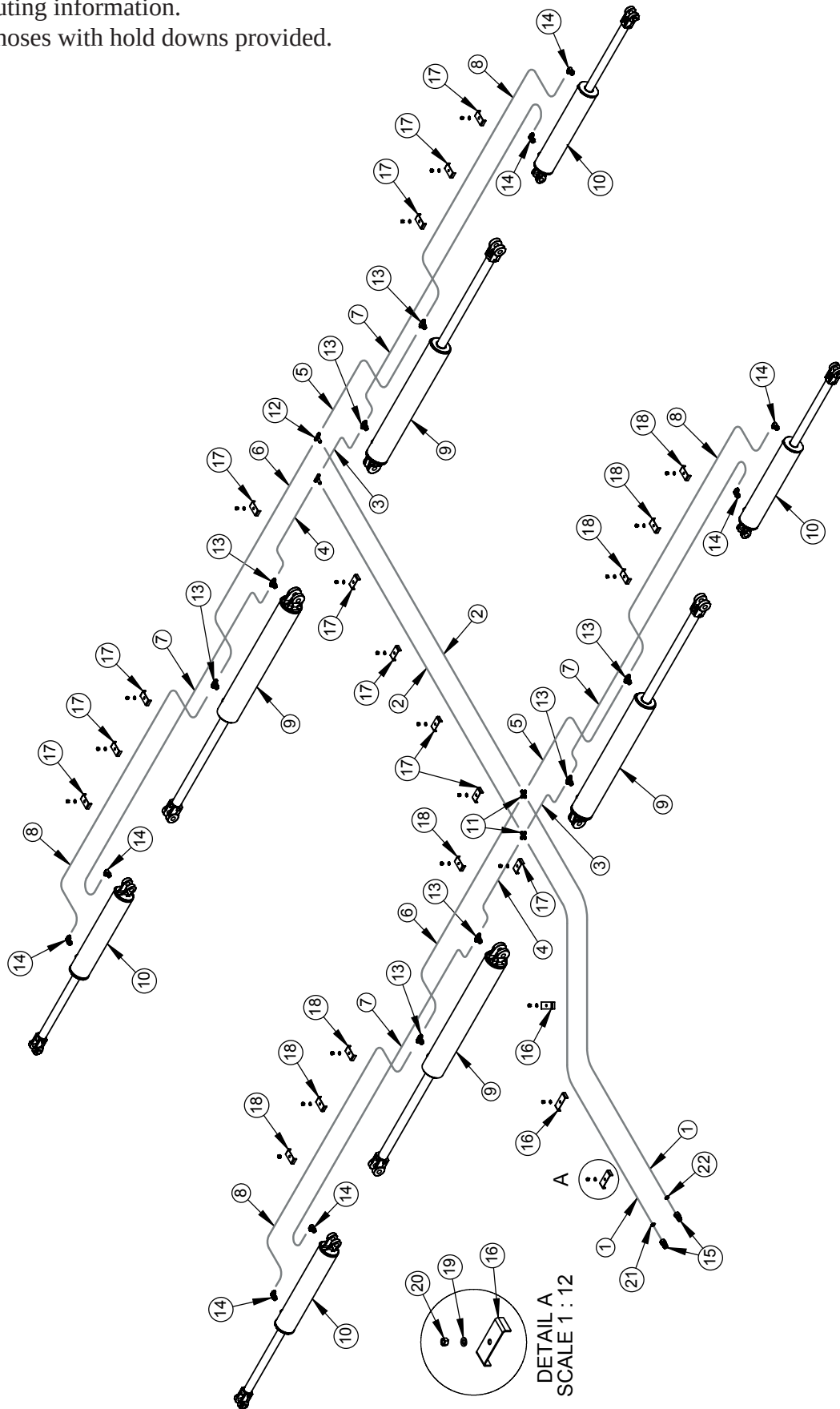
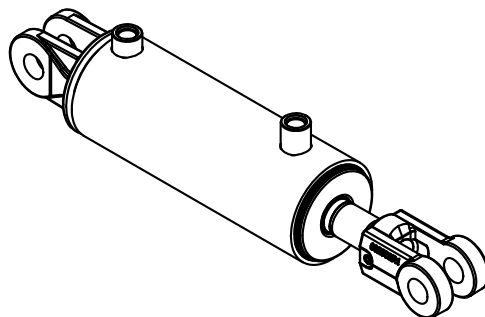


Fig.	Part no.	Qty	Description
1	7600470494	2	Hyd Hose - 1/4" x 1/2" MPT x #6 FJIC - 208"
2	7600470495	2	Hyd Hose - 1/4" x #6 FJIC x #6 FJIC - 128"
3	76202117	2	Hyd Hose - 1/4" x #6 FJIC x #6 FJIC - 30"
4	7600470508	2	Hyd Hose - 1/4" x #6 FJIC x #6 FJIC - 74"
5	76202058	2	Hyd Hose - 1/4" x #6 FJIC x #6 FJIC - 42"
6	76202049	2	Hyd Hose - 1/4" x #6 FJIC x #6 FJIC - 86"
7	76202069	4	Hyd Hose - 1/4" x #6 FJIC x #6 FJIC - 144" (Models 8248, 8246)
	7600470509	4	Hyd Hose - 1/4" x #6 FJIC x #6 FJIC - 132" (Models 8244, 8242, 8240)
	76202035	4	Hyd Hose - 1/4" x #6 FJIC x #6 FJIC - 120" (Model 8238)
	76202010	4	Hyd Hose - 1/4" x #6 FJIC x #6 FJIC - 108" (Model 8236)
8	7600470509	4	Hyd Hose - 1/4" x #6 FJIC x #6 FJIC - 132" (Models 8248, 8246)
	76202035	4	Hyd Hose - 1/4" x #6 FJIC x #6 FJIC - 120" (Models 8244, 8242, 8240)
	76202010	4	Hyd Hose - 1/4" x #6 FJIC x #6 FJIC - 108" (Model 8238)
	76202033	4	Hyd Hose - 1/4" x #6 FJIC x #6 FJIC - 96" (Model 8236)
9	7600474667	4	Cylinder 4-1/2" x 30" Welded - Monarch (Models 8248, 8246, 8244, 8242)
	7600474666	4	Cylinder 4" x 30" Welded - Monarch (Models 8240, 8238, 8236)
10	7600474676	4	Cylinder 4" x 20" Welded - Monarch (Models 8248, 8246, 8244, 8242)
	7600474677	4	Cylinder 3-1/2" x 20" Welded - Monarch (Models 8240, 8238, 8236)
11	600470125	2	#6 MJIC Cross
12	7600470474	2	#6 MJIC Bulkhead Tee
13	7600470466	8	#6 MJIC X #6 MJIC X #8 M ORB Branch Tee
14	76201001	8	#6 MJIC x #8 Male ORB 90°
15	76201028	2	1/2" Female NPT - Pioneer Male Tip
16	76400080	3	4 Hose Holdown - Black
17	76400463	12	3 Hose Holdown - Black
18	76400117	7	2 Hose Holdown - Black
19	600382051	22	Lock Washer, 3/8"
20	600365008	22	Standard Nut, 3/8"
21	7600470521	1	Band, Yellow
22	7600470522	1	Band, Green

Cylinder Parts

Lift Cylinder



Fold Cylinder

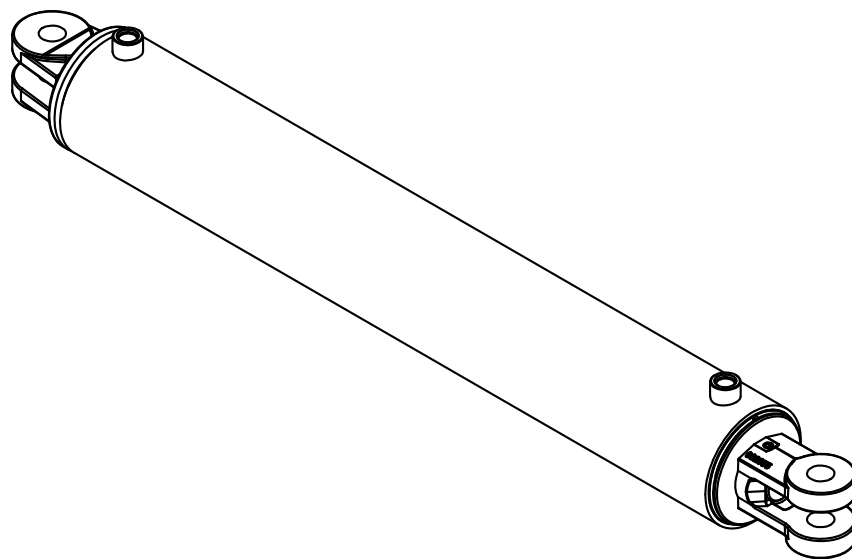


Fig.	Part no.	Qty	Description
	7600474662	2	Cylinder 4 1/4" X 8" Welded Rephase - Monarch
	7600474680	-	Clevis, Monarch #493837
	7600474681	-	Seal Repair Kit, Monarch #649233
	7600474663	2	Cylinder 4" X 8" Welded Rephase - Monarch
	7600474669	-	Clevis, Monarch #493830
	7600474682	-	Seal Repair Kit, Monarch #649227
	7600474664	2	Cylinder 3 3/4" X 8" Welded Rephase - Monarch
	7600474669	-	Clevis, Monarch #493830
	7600474670	-	Seal Repair Kit, Monarch #649222
	7600474665	2	Cylinder 3 1/2" X 8" Welded Rephase - Monarch
	7600474669	-	Clevis, Monarch #493830
	7600474671	-	Seal Repair Kit, Monarch #649216
	7600474667	2	Cylinder 4 1/2" X 30" Welded - Monarch - (Models 8248, 8246, 8244, 8242)
	7600474674	-	Clevis, Monarch #492658
	7600474675	-	Seal Repair Kit, Monarch #649239
	7600474666	2	Cylinder 4" X 30" Welded - Monarch - (Model 8240, 8238, 8236)
	7600474672	-	Clevis, Monarch #493168
	7600474673	-	Seal Repair Kit, Monarch #649230
	7600474676	2	Cylinder 4" X 20" Welded - Monarch - (Models 8248, 8246, 8244, 8242)
	7600474679	-	Clevis, Monarch #492652
	7600474683	-	Seal Repair Kit, Monarch #644349
	7600474677	2	Cylinder 3 1/2" X 20" Welded - Monarch - (Models 8240, 8238, 8236)
	7600474679	-	Clevis, Monarch #492652
	7600474684	-	Seal Repair Kit, Monarch #644346

Light Kit Assembly

Instructions:

- Connect electrical wiring from light kit as shown in the schematic below. Refer to Appendix A for detailed routing information.
- Secure wiring with cable ties.

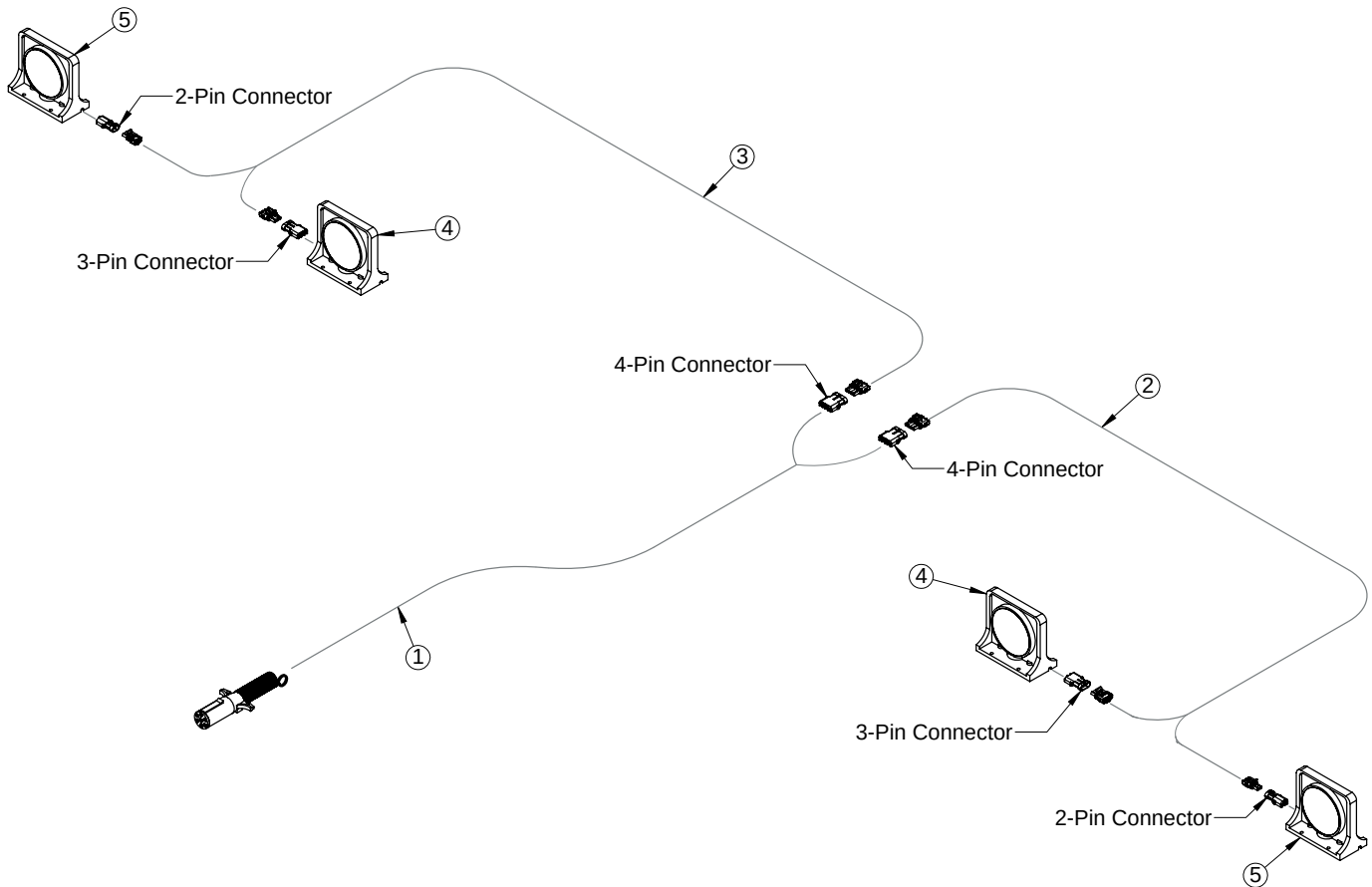


Fig.	Part no.	Qty	Description
-	760033006	1	8200 Series Light Kit
1	760031240	1	Harness, 30' Lead w/7-Pole Ag Plug
2	760031241	1	Harness, 11' - Y, LH
3	760031242	1	Harness, 15' - Y, RH
4	760031243	1	Tail Light, Red
5	760031244	1	Warning Light, Amber

Rear Hitch Assembly (Optional)

Instructions:

- Hardware included in bag 760033026
- Remove the two rear bolts connecting the center frame halves.
- Attach the rear hitch weldment to the cultivator center frame using u-bolts provided.
- Loosely attach the support arm and spacers to cultivator where the two bolts were removed. Use the u-bolts provided to attach the support arm to the rear hitch and tighten up all hardware.
- Insert draw bar into rear hitch and install 3/4" bolt so drawbar cannot pull out.
- Insert hitch pin and secure with spring and hair pin.

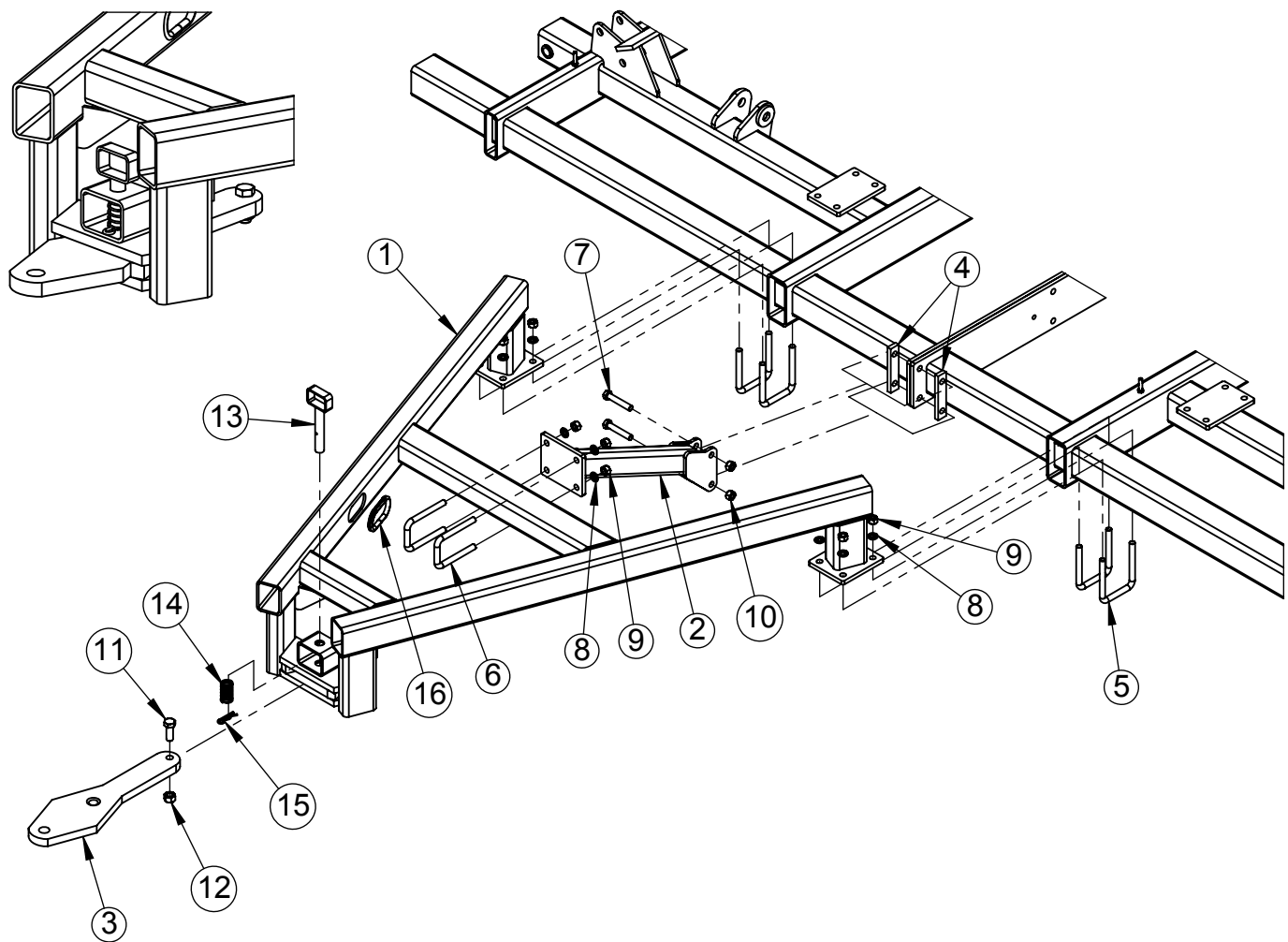
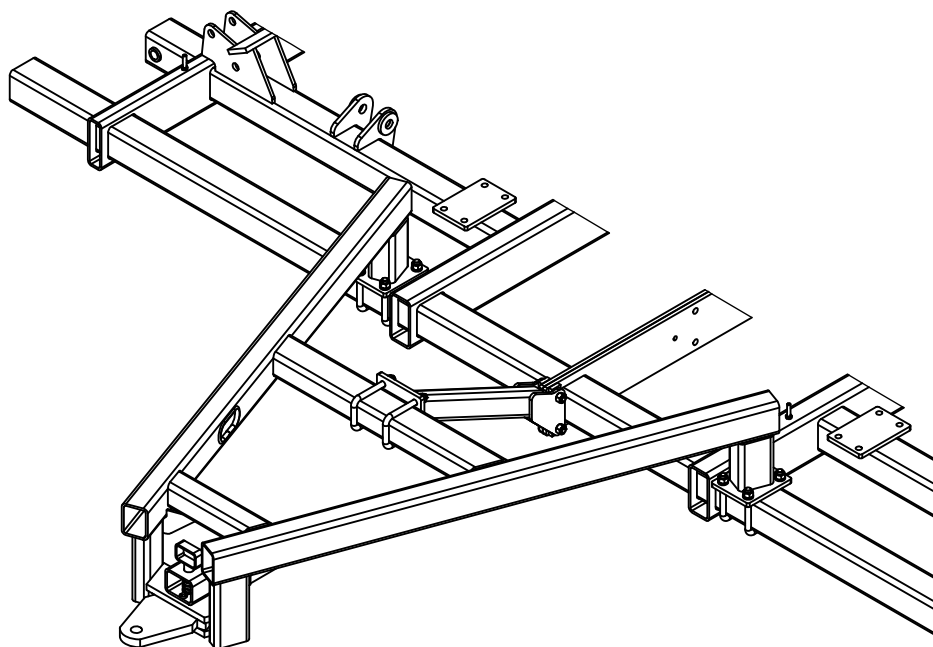


Fig.	Part no.	Qty	Description
1	760032053	1	Rear Hitch Weldment
2	760032054	1	Support Arm Weldment
3	760031153	1	Telescoping Drawbar 1"
4	760031162	2	Support Arm Spacer
5	600373058	4	U-bolt, 5/8" X 4 X 5-1/2"
6	600373056	2	U-bolt, 5/8" X 3 X 5-1/2"
7	600356116	2	Bolt, 5/8" X 3-1/2" GR.5
8	600382054	12	Lockwasher, 5/8"
9	600365014	12	Nut, 5/8"
10	600366031	2	Nut, Toplock 5/8"
11	600356145	1	Bolt, 3/4" X 2" GR.5
12	600366024	1	Nut, Toplock 3/4"
13	768011951	1	Hitch Pin
14	76101330	1	Spring
15	600383011	1	Hair pin, 3/16"
16	760031191	2	Edge Trim



Rear Hitch Hydraulic Kit Assembly (Optional)

INSTALLING REAR HITCH HYDRAULIC KIT- 760034003U

-Requires Optional Rear Hitch 760034002U

-Hardware included in bag 760033032

1. Attach coupler mount bracket (1) to rear hitch using 1/2" x 1-1/4" cap screws (7) and 1/2" lock nuts (8)

2. Install male couplers (4) to 3/8" x 432" hoses (2).

3. Slide male coupler end of hoses (2) through trimmed opening in rear hitch tube.

Note: If installing optional rear hitch light kit extension, route hoses and harness at same time.

4. Route hoses over existing hoses and clamps to front of cultivator.

5. Secure female couplers (3) to coupler bracket (1) using retaining rings (5) on either side of bracket (1) and inserted into two snap ring grooves on coupler (3).

6. Attach female end of hoses (2) to female couplers (5).

7. Secure hoses to existing hose clamps by using two hose holder clamps in each location, routing two hoses through each clamp.

8. Secure clamps to top of existing hose clamps using existing lock washer and nut.

The kit only comes with one set of two hoses. If two sets are needed (as shown below), second set of hoses/couplers can be purchased separately: Package 760034013

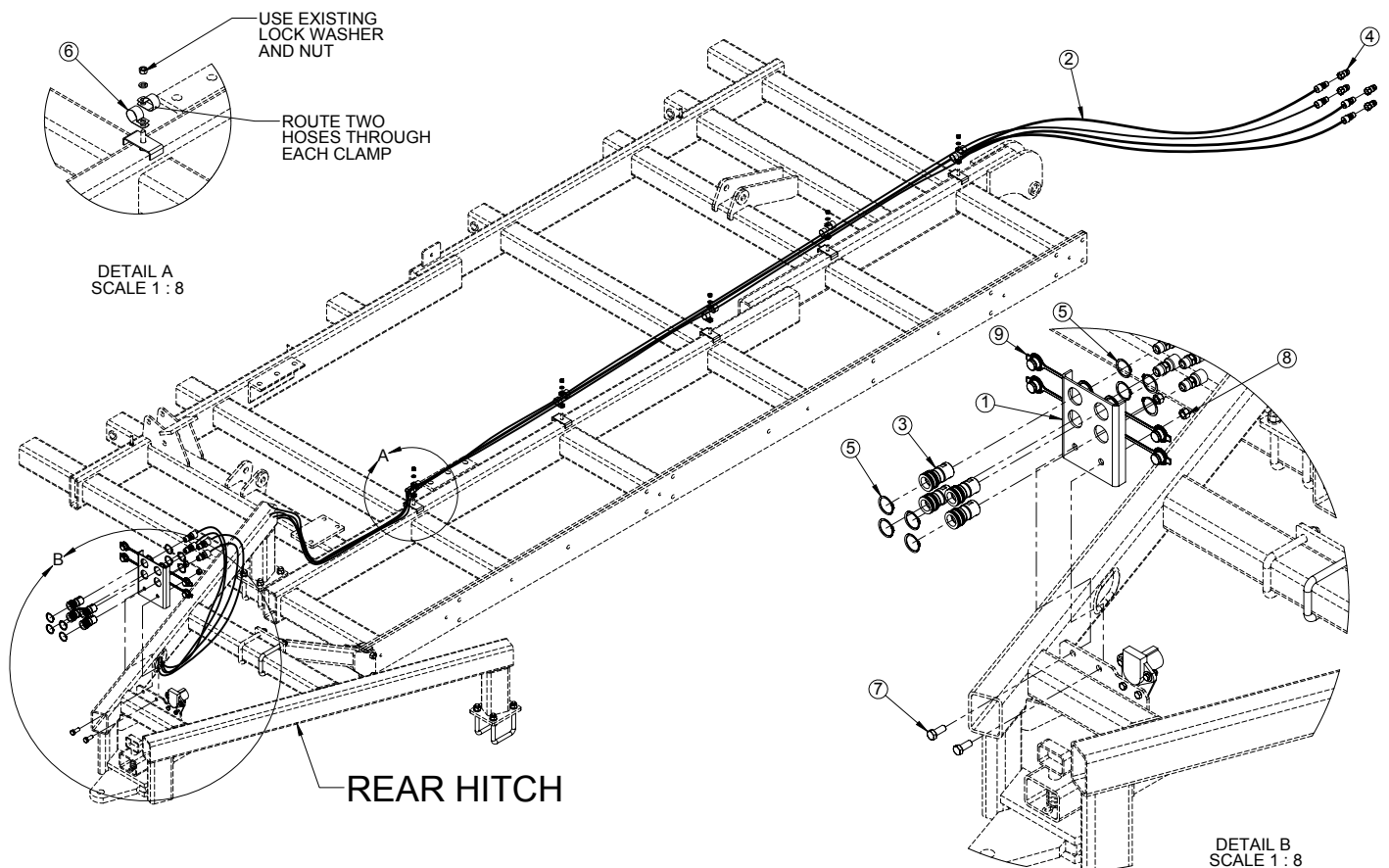


Fig.	Part no.	Qty	Description
1	760035192	1	Bracket, Coupler Mount
2	7600470510	2	Hose 3/8"-8MP-8MP-432" LG
3	7600470496	2	Coupler, 1/2" Female-8FP Push/Pull
4	600470110	2	Coupler, 1/2" Male-8FP
5	7600407054	4	Ring, Ext. Retaining-1.50" x .05"
6	7600470498	8	Clamp, Hose Holder
7	600356103	2	Bolt, 1/2"-13 x 1.25" Gr5 Zn
8	600366030	2	Nut, Lock 1/2"-13

Rear Hitch Light Kit Extension (Optional)

INSTALLING REAR HITCH LIGHT KIT EXTENSION - 760034006U

-Requires Optional Rear Hitch 760034002U

1. Attach coupler mount bracket using 3/8" x 1" bolts (3) and toplock nuts (4).
2. Run extension wiring harness (2) through cut out in left arm of rear hitch and down inside arm.
Note: If installing optional hydraulic kit, run hoses and harness at same time.
3. Disconnect existing left and right wire harnesses running from lights to main harness from the main harness at rear of implement.
4. Connect extension wiring harness (2) to main harness ensuring color of wires match.
5. Connect left and right light wiring harness from lights to extension wiring harness (2) ensuring color of wires match.

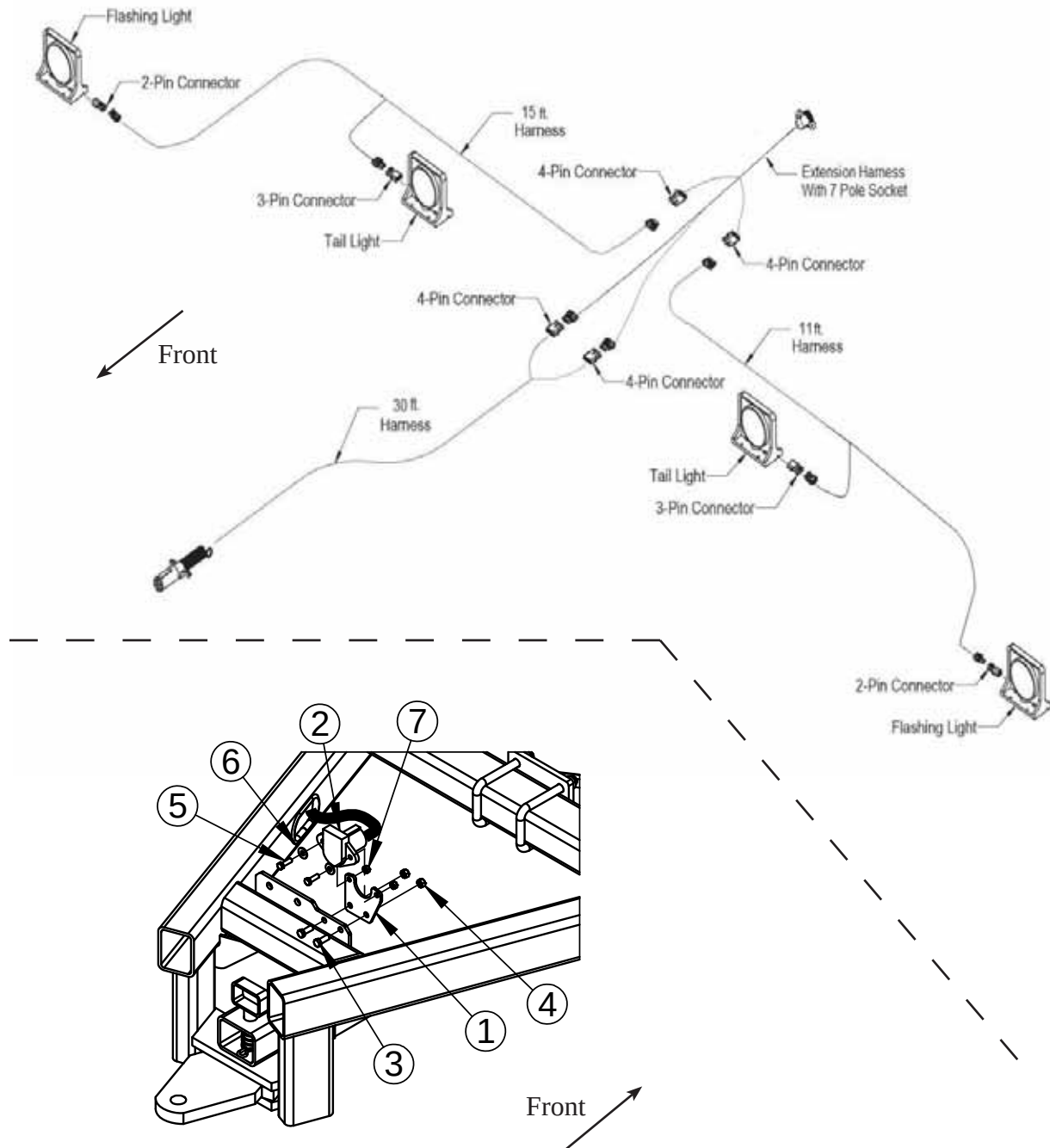


Fig.	Part no.	Qty	Description
1	760031213	1	Bracket, 7 Pole Socket Mount
2	760031214	1	Harness, 8' Extension w/ 7 Pole Socket
3	600356020	2	Bolt, 3/8" x 1" GR. 5
4	600366028	2	Nut, Toplock, 3/8"
5	600356106	2	Bolt, 5/16" x 1" GR. 5
6	76101228	2	Flat washer, 5/16"
7	600366027	2	Nut, Toplock, 5/16"

Decal List

 **KONGSKILDE** ← ① 8200 ← ②

 **KONGSKILDE 8200** ← ③

 **KONGSKILDE 8200** ← ④

 **KONGSKILDE**
Moving Agriculture Ahead ← ⑤

LIFT 
FOLD  ← ⑨

 **KONGSKILDE**
Moving Agriculture Ahead ← ⑥

 **IMPORTANT**
READ OPERATOR'S
MANUAL ← ⑩

WORKING DEPTH
A B C D E F G ← ⑦

INCREASE
DEPTH
ADJUST
DECREASE ← ⑧

 **DANGER**
← ⑭

TOWING SPEED
20 MPH MAX  **CAUTION**
TOWING HAZARD ← ⑪


WARNING ← ⑮

 **CAUTION**
TIPPING HAZARD ← ⑫

← ⑯

 **DANGER**
ELECTROCUTION HAZARD ← ⑬

← ⑰

← ⑱

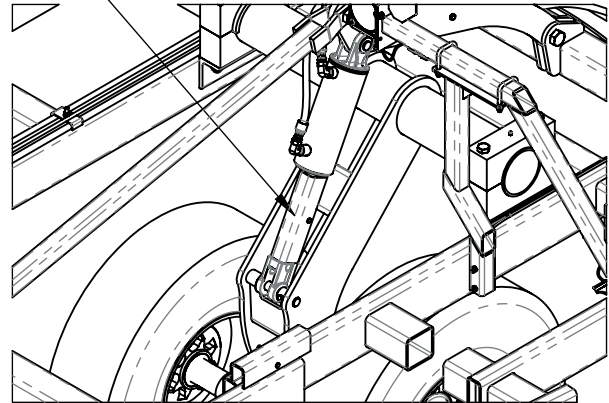
Fig.	Part no.	Qty	Description
1	7600475294	2	Decal, Kongskilde
2	7600475306	2	Decal, 8200
3	7600475304	1	Decal, Kongskilde 8200, LH
4	7600475305	1	Decal, Kongskilde 8200, RH
5	7600475296	2	Decal, Kongskilde M/A, Gradient
6	7600475295	1	Decal, Kongskilde M/A
7	7600475258	1	Decal, 8200 Depth Gauge
8	7600475259	1	Decal, 8200 Depth Adjust
9	7600475277	1	Decal, Hose Color Code
10	7600475276	1	Decal, Read Manual
11	600475170	1	Decal, Caution, Max Speed
12	600475160	1	Decal, Caution, Tipping
13	600475169	1	Decal, Danger, Electrocution
14	600475039	4	Decal, Wing Safety
15	600475176	2	Decal, Wing Fold Lock
16	600475178	6	Reflector, Red/Orange Fluorescent
17	600475179	4	Reflector, Red
18	600475180	6	Reflector, Yellow

Assembly Completion

After assembly is complete, charge the wheel lift cylinders with a tractor or hydraulic unit, fully extending and retracting the cylinders several times. Hold the hydraulic lever open at the end of the stroke to purge the air from the system. Fully extend the lift cylinders and install the transport safety locks onto the center lift cylinders.

CAUTION: ALWAYS INSTALL THE TRANSPORT LOCK ONTO THE CENTER LIFT CYLINDERS WHEN THE IMPLEMENT IS PLACED IN THE RAISED POSITION FOR TRANSPORT, MAINTENANCE OR STORAGE. Secure with the pin and lock clip provided.

Transport Lock

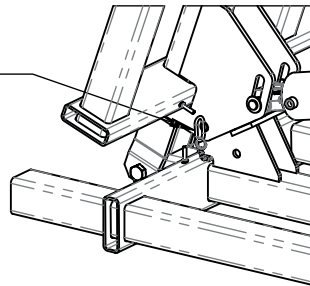


The wing fold cylinders must be charged with oil before attempting to fold the cultivator. Disconnect the cylinder rod clevis from the wings and block up the cylinder. Extend and retract the cylinders several times with a tractor or hydraulic unit, holding the lever at the end of the stroke to purge the air from the system. After fold cylinders are charged, re-connect them to the wings.

Slowly fold the wings to the transport position. Insert the wing lock safety pins.

CAUTION: ALWAYS INSTALL THE WING LOCK SAFETY PINS WHEN THE IMPLEMENT IS FOLDED FOR TRANSPORT, MAINTENANCE OR STORAGE.

Wing Lock Safety Pin



CAUTION: Never transport the implement on public road ways without installing the transport safety chain and SMV sign.

Refer to the Owners Manual for further safety information before attempting to operate or service the unit.

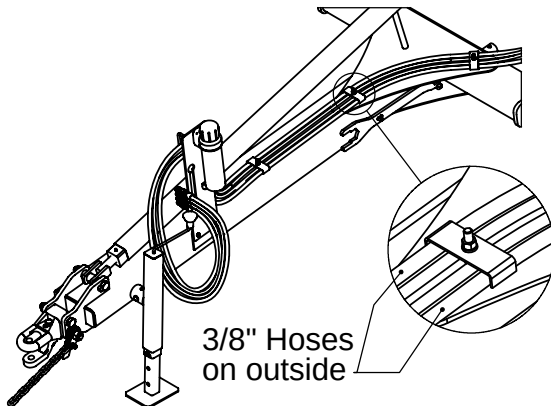
Final Inspection

When the machine is fully assembled, verify all nuts, bolts and other connections are secure. Be sure to read the Owners Manual before attempting to operate the unit. The Owners Manual provides important instructions and safety precautions that must be followed before attempting to hook up and move the unit after assembly.

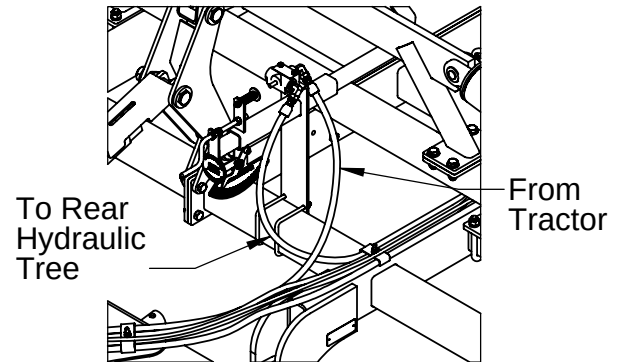
Appendix A

Hydraulic Hose Routing Details

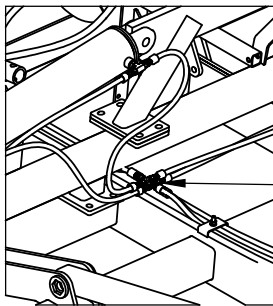
Route hoses along hitch



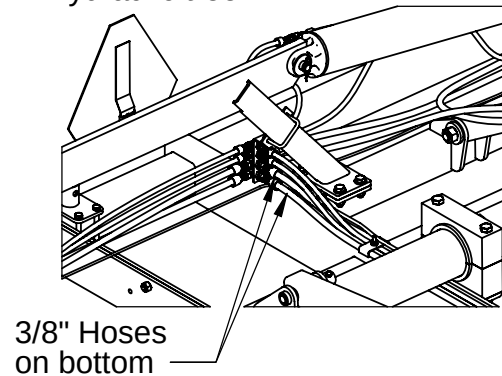
Route hoses to single point



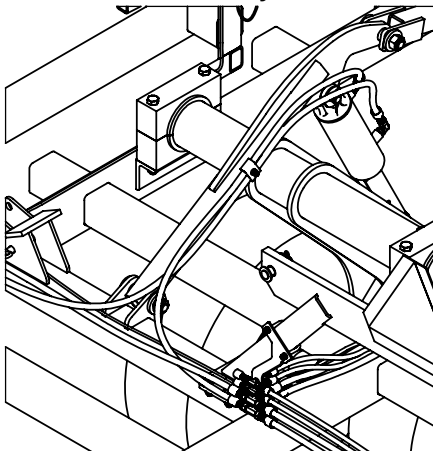
Locate cross fittings behind front fold cylinder cross brace.



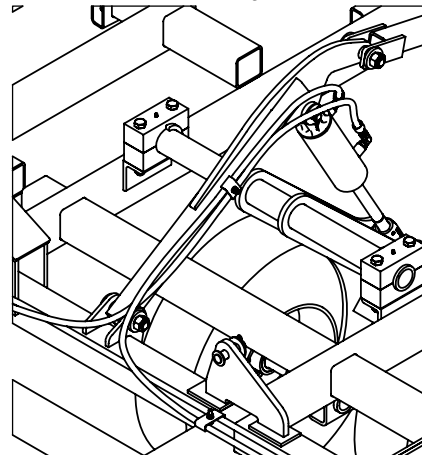
Route hoses along mainframe to hydraulic tree.



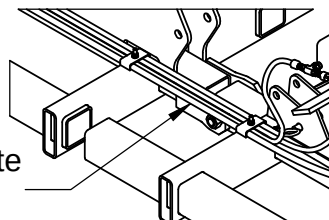
Route hoses from tree to center lift cylinders



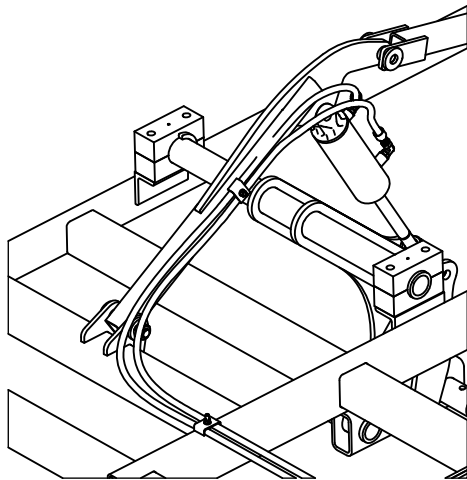
Route hoses from center lift cylinders to intermediate lift cylinders



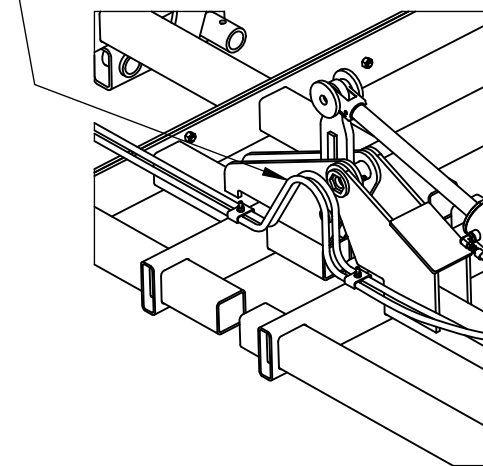
Allow a small amount of droop in hoses between mainframe and intermediate wing frames



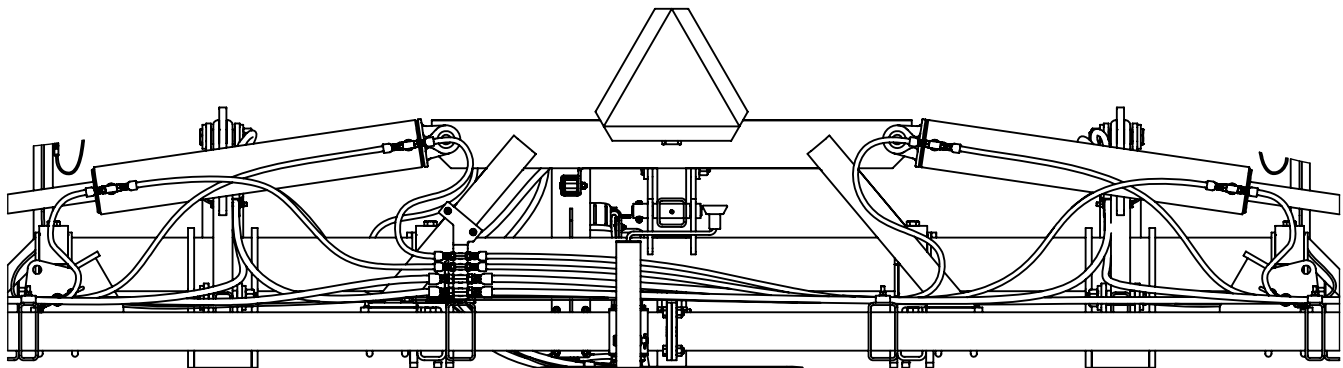
Route hoses from intermediate lift cylinders to outer wing lift cylinders



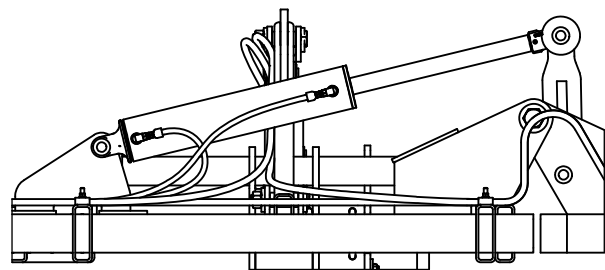
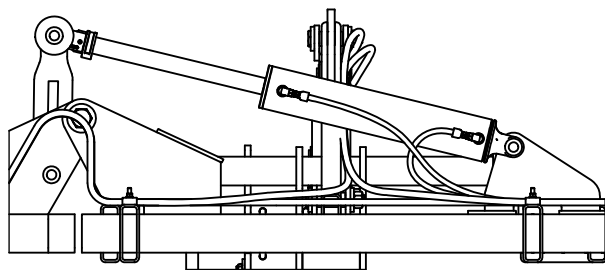
Allow enough slack in hoses to reach outer wing pivot



Route hoses from front "cross" fittings and rear hydraulic tree to inner fold cylinders



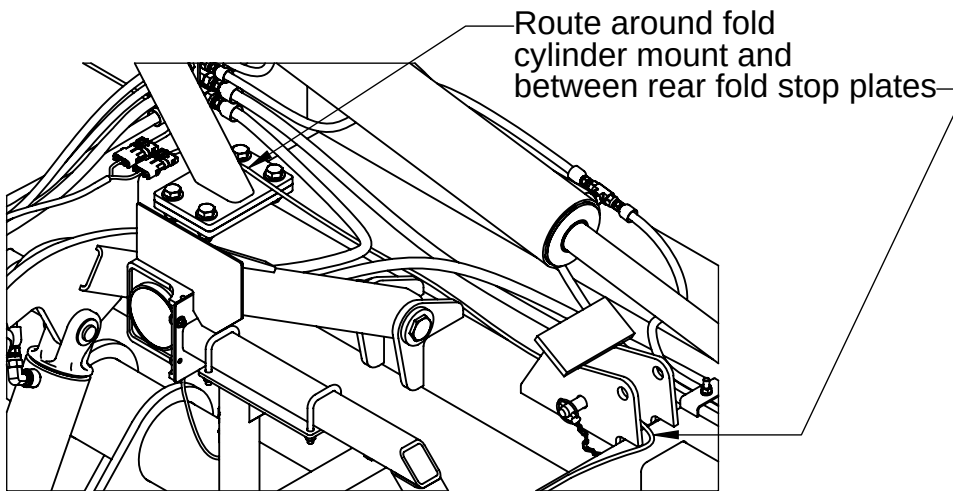
Route hoses from inner fold cylinders to outer fold cylinders



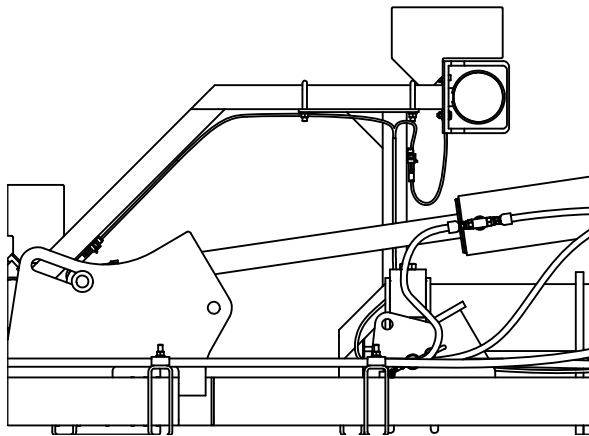
Appendix A

Safety Lighting Wire Routing Details

Route light wiring from hitch to rear of machine following the hydraulic hoses.

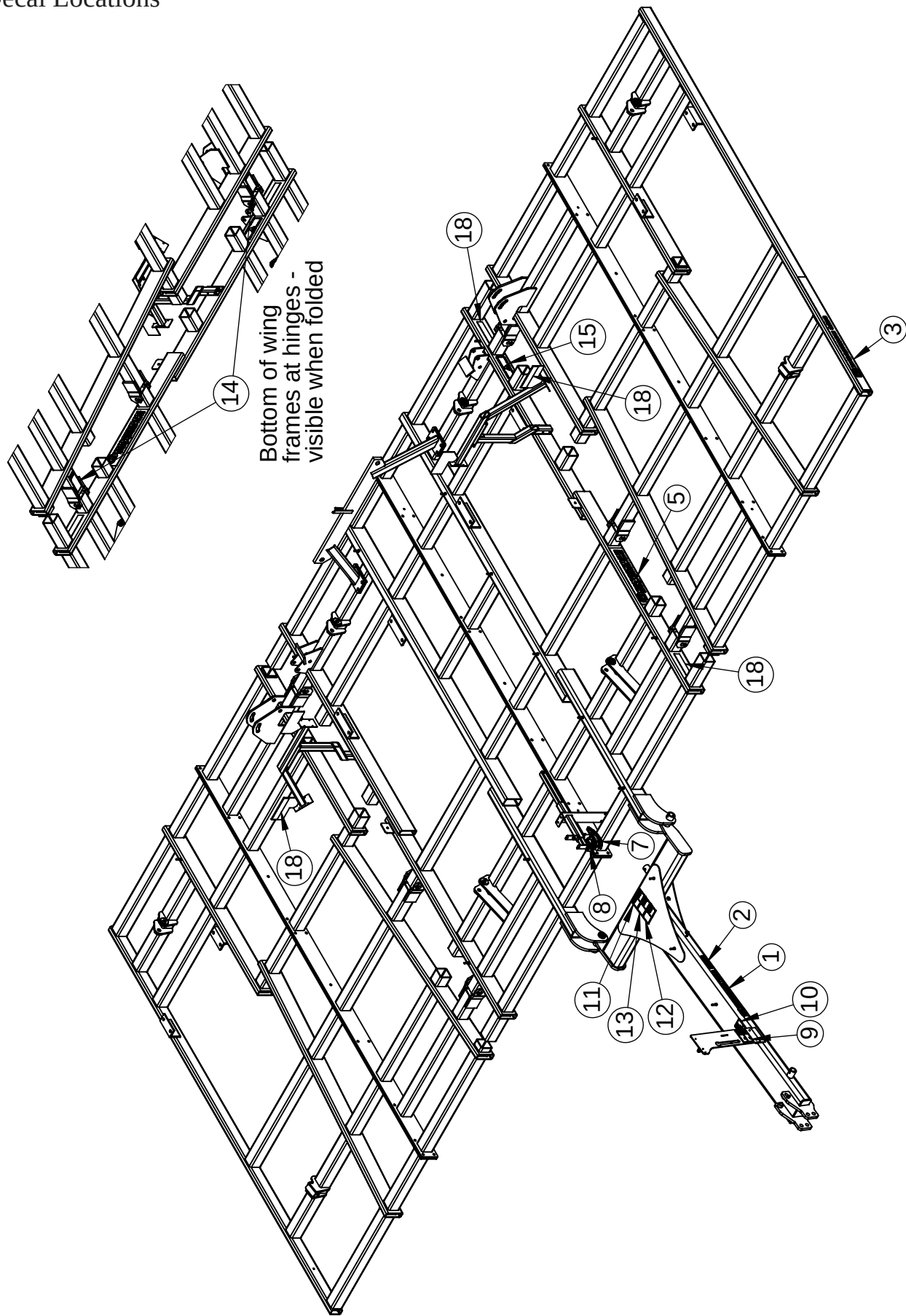


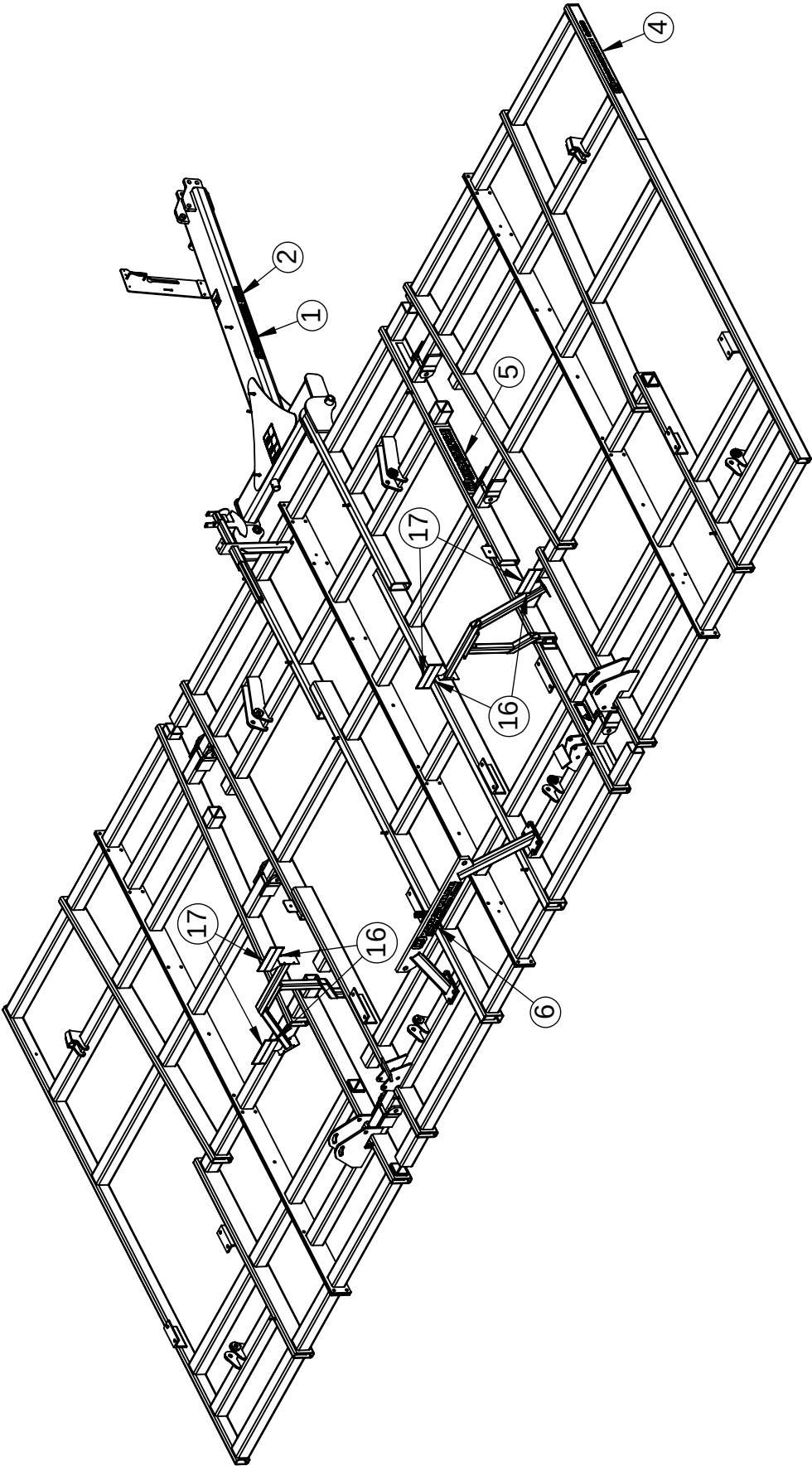
Route wiring up light stands to lights as shown



Rear View Left Side

Decal Locations

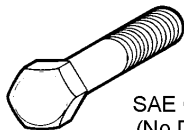




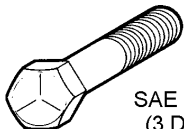
Torque Chart

TORQUE SPECIFICATIONS

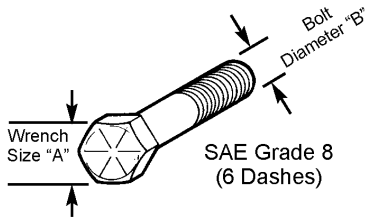
AMERICAN Bolt Head Markings



SAE Grade 2
(No Dashes)



SAE Grade 5
(3 Dashes)

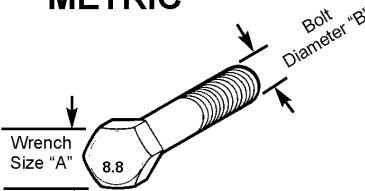


SAE Grade 8
(6 Dashes)

Proper torque for American fasteners.
Recommended Torque in Foot Pounds (Newton Meters).*

WRENCH SIZE (IN.) "A"	BOLT DIAMETER (IN.) "B" AND THREAD SIZE	SAE GRADE 2	SAE GRADE 5	SAE GRADE 8
7/16	1/4 - 20 UNC	6 (7)	8 (11)	12 (16)
7/16	1/4 - 28 UNF	6 (8)	10 (13)	14 (18)
1/2	5/16 - 18 UNC	11 (15)	17 (23)	25 (33)
1/2	5/16 - 24 UNF	13 (17)	19 (26)	27 (37)
9/16	3/8 - 16 UNC	20 (27)	31 (42)	44 (60)
9/16	3/8 - 24 UNF	23 (31)	35 (47)	49 (66)
5/8	7/16 - 14 UNC	32 (43)	49 (66)	70 (95)
5/8	7/16 - 20 UNF	36 (49)	55 (75)	78 (106)
3/4	1/2 - 13 UNC	49 (66)	76 (103)	106 (144)
3/4	1/2 - 20 UNF	55 (75)	85 (115)	120 (163)
7/8	9/16 - 12 UNC	70 (95)	109 (148)	153 (207)
7/8	9/16 - 18 UNF	79 (107)	122 (165)	172 (233)
15/16	5/8 - 11 UNC	97 (131)	150 (203)	212 (287)
15/16	5/8 - 18 UNF	110 (149)	170 (230)	240 (325)
1-1/8	3/4 - 10 UNC	144 (195)	266 (360)	376 (509)
1-1/8	3/4 - 16 UNF	192 (260)	297 (402)	420 (569)
1-5/16	7/8 - 9 UNC	166 (225)	430 (583)	606 (821)
1-5/16	7/8 - 14 UNF	184 (249)	474 (642)	668 (905)
1-1/2	1 - 8 UNC	250 (339)	644 (873)	909 (1232)
1-1/2	1 - 12 UNF	274 (371)	705 (955)	995 (1348)
1-1/2	1 - 14 UNF	280 (379)	721 (977)	1019 (1381)
1-11/16	1-1/8 - 7 UNC	354 (480)	795 (1077)	1288 (1745)
1-11/16	1-1/8 - 12 UNF	397 (538)	890 (1206)	1444 (1957)
1-7/8	1-1/4 - 7 UNC	500 (678)	1120 (1518)	1817 (2462)
1-7/8	1-1/4 - 12 UNF	553 (749)	1241 (1682)	2013 (2728)
2-1/16	1-3/8 - 6 UNC	655 (887)	1470 (1992)	2382 (3228)
2-1/16	1-3/8 - 12 UNF	746 (1011)	1672 (2266)	2712 (3675)
2-1/4	1-1/2 - 6 UNC	870 (1179)	1950 (2642)	3161 (4283)
2-1/4	1-1/2 - 12 UNF	979 (1327)	2194 (2973)	3557 (4820)

METRIC



Numbers appearing on bolt heads
indicate ASTM class.

Proper torque for Metric fasteners.
Recommended torque in Foot Pounds (Newton Meters).*

WRENCH SIZE (mm) "A"	BOLT DIA. (mm) "B"	ASTM 4.6	ASTM 8.8	ASTM 9.8	ASTM 10.9
8	5	1.8 (2.4)		5.1 (6.9)	6.5 (8.8)
10	6	3 (4)		8.7 (12)	11.1 (15)
13	8	7.3 (10)		21.1 (29)	27 (37)
16	10	14.5 (20)		42 (57)	53 (72)
18	12	25 (34)	74 (100)	73 (99)	93 (126)
21	14	40 (54)	118 (160)	116 (157)	148 (201)
24	16	62 (84)	167 (226)	181 (245)	230 (312)
30	20	122 (165)	325 (440)		449 (608)
33	22		443 (600)		611 (828)
36	24	211 (286)	563 (763)		778 (1054)
41	27		821 (1112)		1138 (1542)
46	30	418 (566)	1119 (1516)		1547 (2096)

*Use 75% of the specified torque value for plated fasteners. Use 85% of the specified torque values for lubricated fasteners.



Notes: _____

