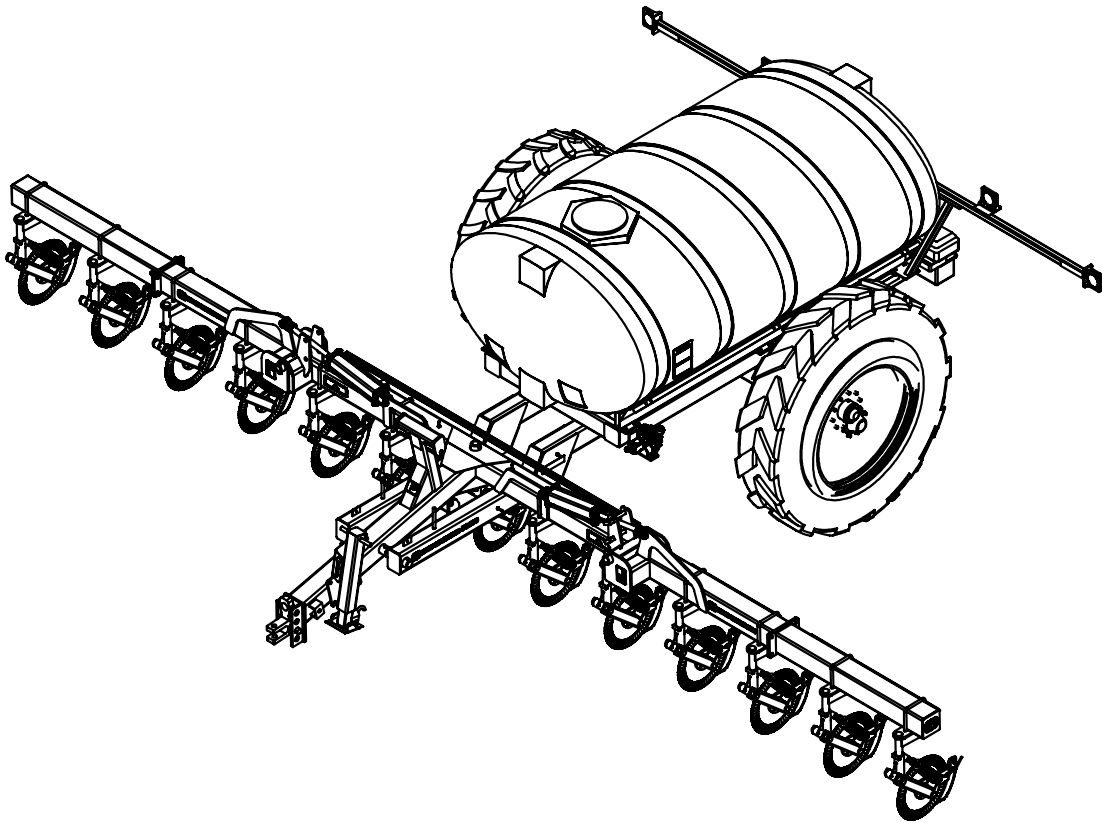




KONGSKILDE F3400-1600

LIQUID SIDEDRESS APPLICATOR - Assembly/Parts

Kongsilde
F3400-1600



Models

F3400-1600

- 763400922-1600 22.5' Liquid Sidedress Applicator
- 763400927-1600 27.5' Liquid Sidedress Applicator
- 763400932-1600 32.5' Liquid Sidedress Applicator

*Model may not be exactly as shown.

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

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

760000239 - Revision 5
Serial No. 400091 - current

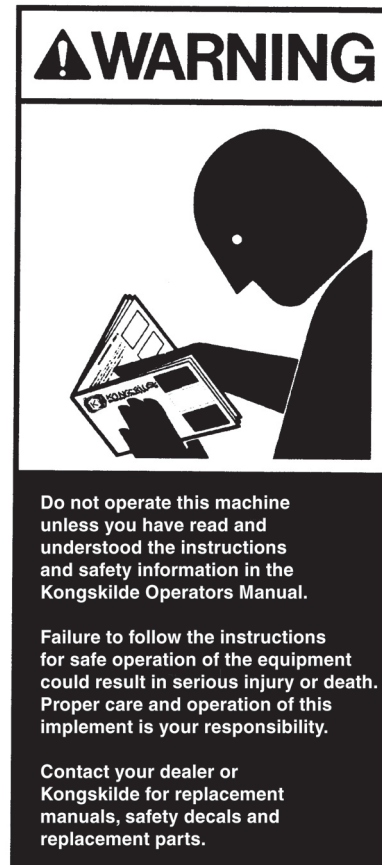
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Introduction:

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.

Tongue/Mainframe Assembly

Instructions:

- Use hardware from 71020953, or 71020954 (bag included depends on model)
- Lay chassis on ground, centering mainframe on top of it.
- Align hitch and chassis and install hinge pin.
- Install hinge pin using the hardware shown. Do not install implement jack at this point, as it could result in damage to jack. Jack is to be installed after wings and all hydraulics are assembled on bar.
- Install clevis with pin and hardware shown.
- Install safety chain to outside of chain bracket, using three washers placed in chain as spacer.

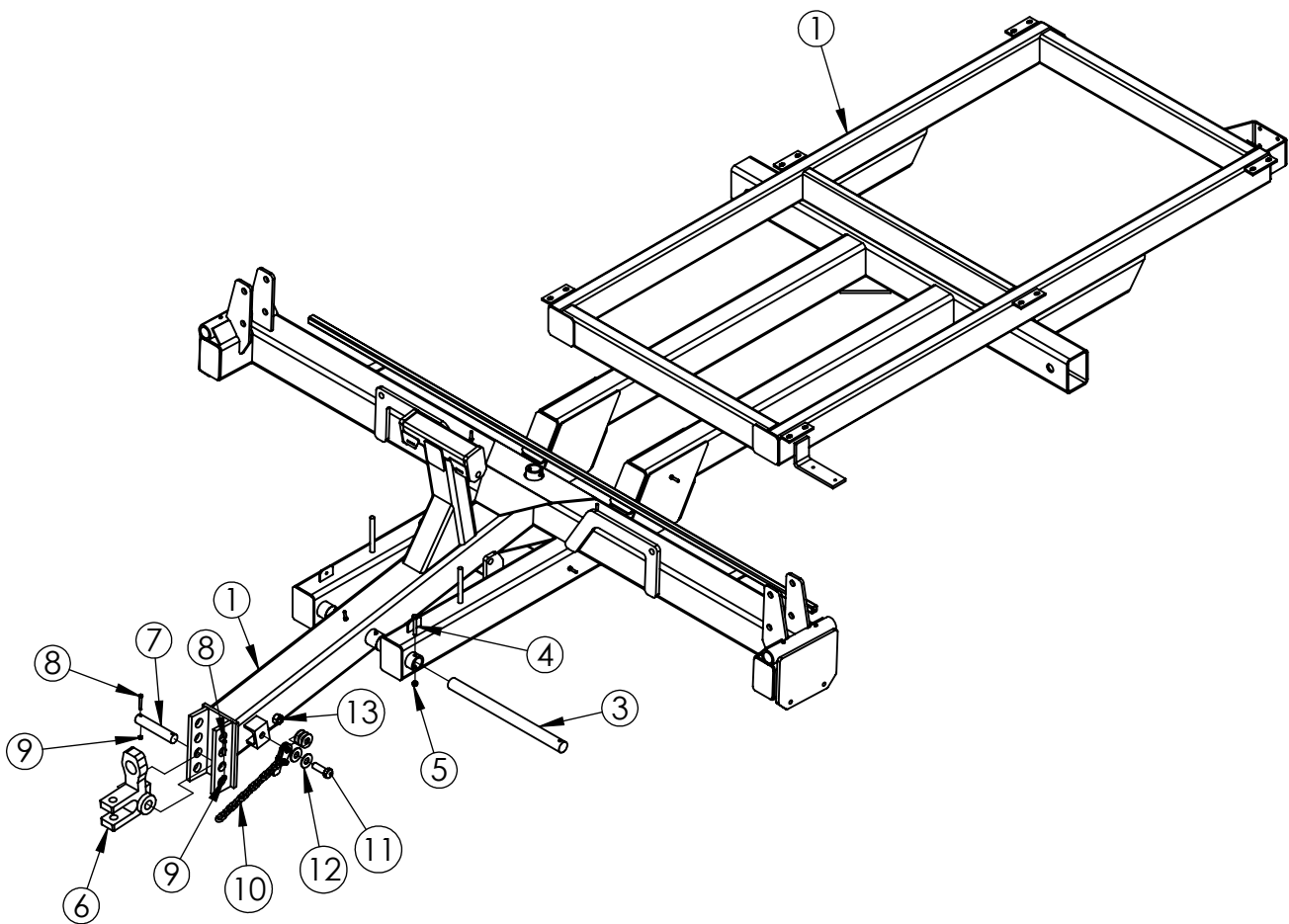
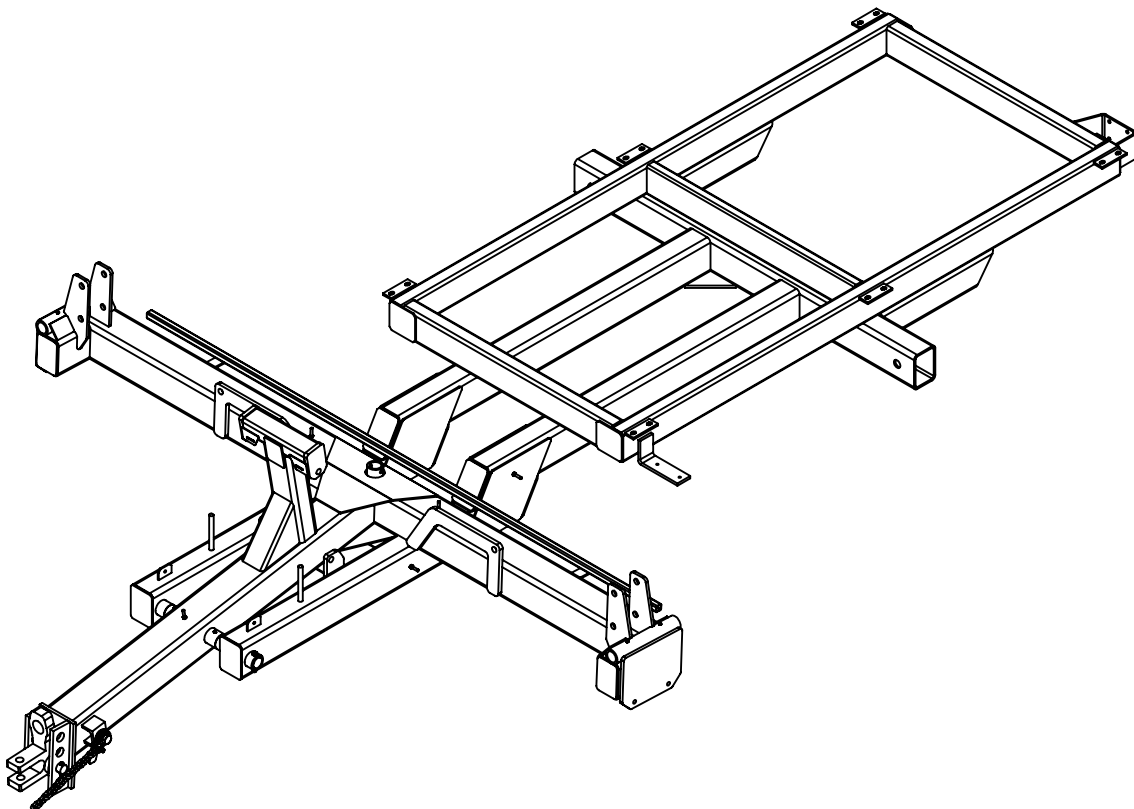


Fig.	Part no.	Qty	Description
1	762450010	1	Wdmt, F3400 Tongue/Mainframe
2	762450064	1	Wdmt, F3400-1600 Sidedress Chassis
3	766240122	1	Pin, 2" Dia x 28-1/2" Pivot
4	600356137	1	Bolt, 1/2"-13 X 3-1/2" Gr. 5
5	600366030	1	Nut, Top Lock 1/2"-13
6	76450016	1	Clevis, Combination
7	76602178	1	Pin, 1-5/8" Dia x 8-1/2"
8	600356007	2	Bolt, 3/8"-16 x 2-1/2" Gr. 5
9	600366028	2	Nut, Top Lock 3/8"-16
10	600461011	1	Chain, 3/8 Gr. 70 Safety
11	600356002	1	Bolt, 1"-8 x 3" Gr. 5
12	600381018	1	Washer, Flat 1"
13	600366032	1	Nut, Top Lock 1"



14.9 x 46 Tire and Axle Assembly

Instructions:

- Use hardware from hardware bags 76102259.
- Raise rear of chassis, install axles as shown.
- Raise chassis in air and install tire/wheel assemblies.
- Lower chassis to rest on tires and hitch.

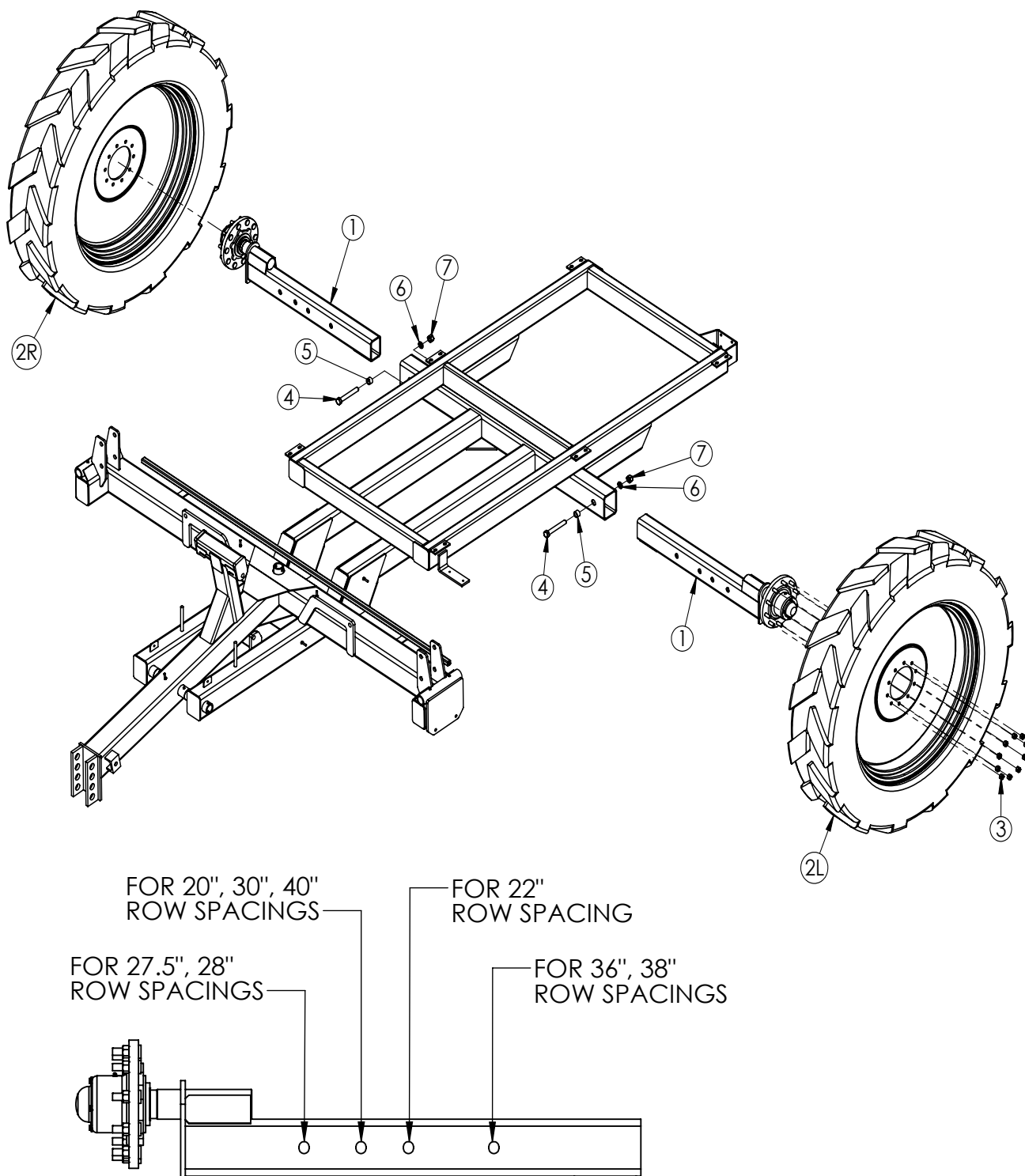
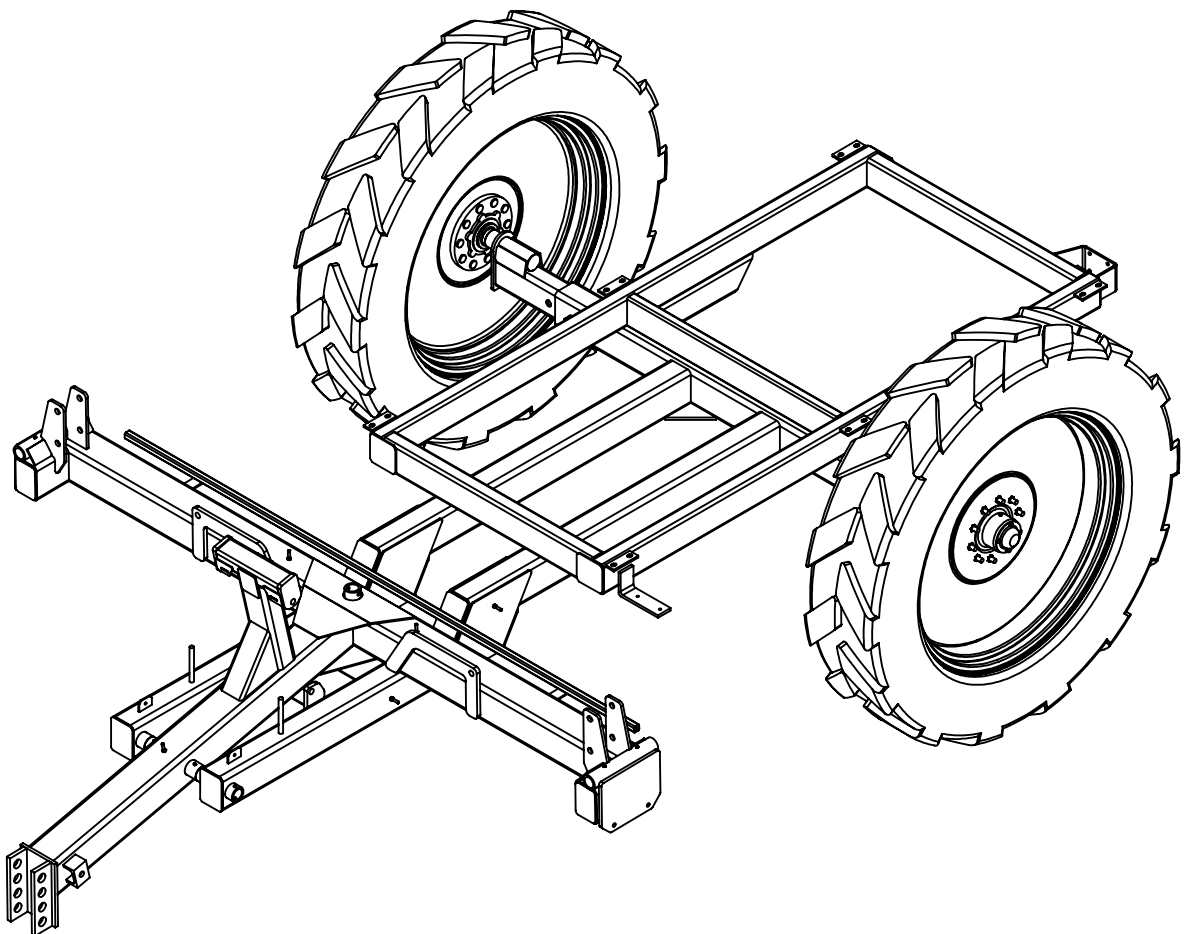


Fig.	Part no.	Qty	Description
1	762450046	2	Assy, Axle- 10 Bolt
2R	76301249R	1	Assy, Tire/Wheel 14.9 x 46"-RH
2L	76301249L	1	Assy, Tire/Wheel 14.9 x 46"-LH
3	776301189	20	Nut, Lug 3/4"-16
4	76101203	2	Bolt, 1"-8 x 7" Gr 5
5	76602104	2	Bushing, Spacer
6	600382056	2	Washer, Lock 1"
7	600365020	2	Nut, Hex 1"-8



Drop Leg Jack Assembly

Instructions:

-Attach jack as shown, using hardware on next page. Jack positioning can be adjusted according to drawbar heights, tire size, etc.

NOTE: Ensure jack is mounted far enough away from hitch to ensure three point arms or quick hitch does not contact jack while turning.

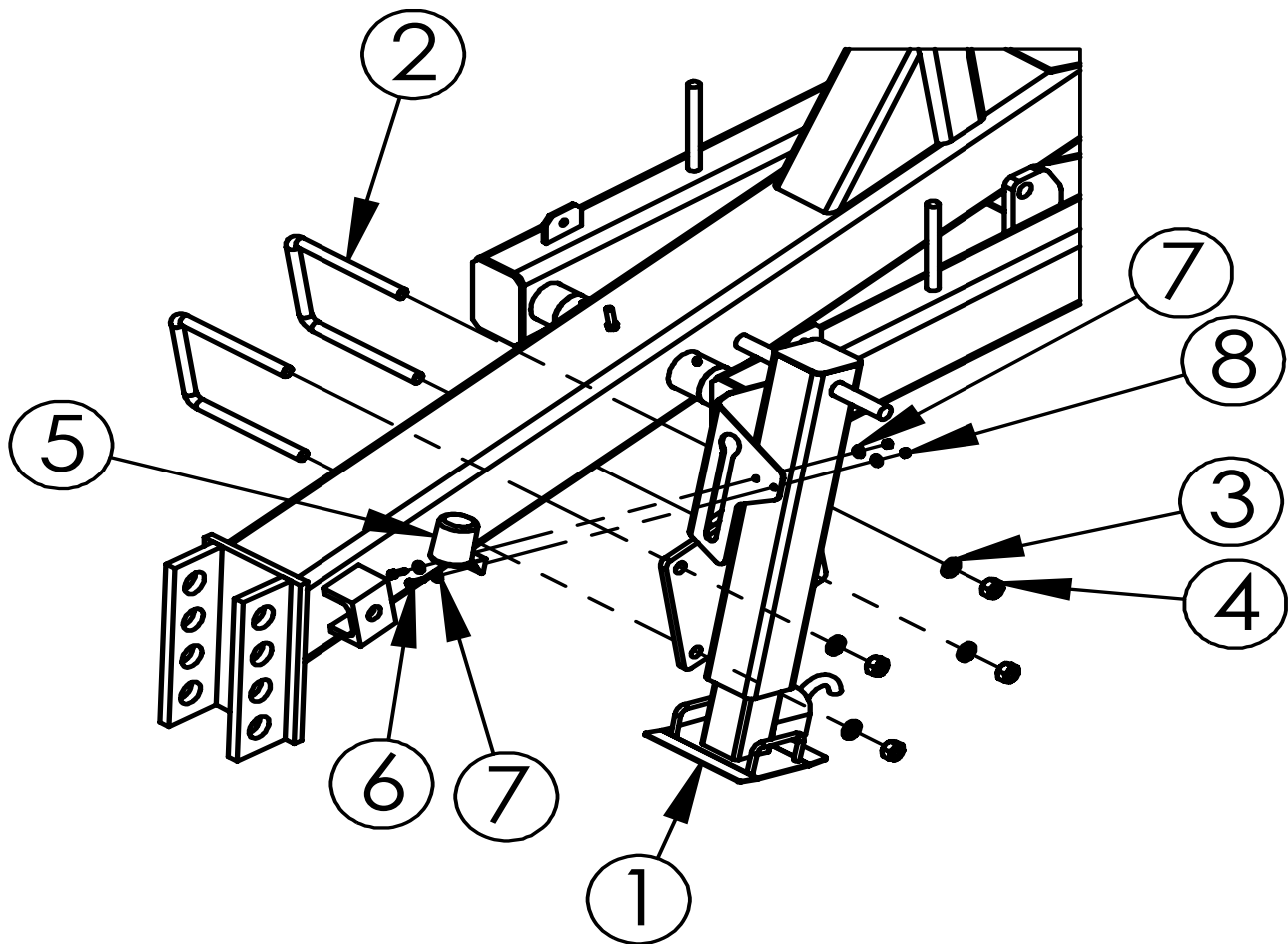


Fig.	Part no.	Qty	Description
1	762450004	1	Wdmt, HD 12,000 lb Jack
2	76101316	2	U-Bolt 3/4" x 7" x 9"
3	600382055	4	Washer, Lock 3/4"
4	600365019	4	Nut, Hex 3/4"-10
5	760001005	1	Socket, 7 Pin Light Plug Storage
6	600356138	2	Bolt, 1/4"-20 x 1" Gr 5
7	76101227	4	Washer, Flat 1/4"
8	600366026	2	Nut, Toplock 1/4"-20

1600 Gallon Tank Saddle

Instructions:

- Use hardware from hardware bag 76102257.
- Install tank saddle on chassis with sump cut-out towards front of chassis, ensuring correct lengths of bolts as shown. Install light bar mount brackets on top of saddle mount tabs in rear. If using 2" quick fill, install quick-fill bracket beneath right rear saddle mount tab on chassis.
- Cut 3/8" hose into two 10" and two 14" pieces. Slice pieces lengthwise and insert around edges of sump cut-out.

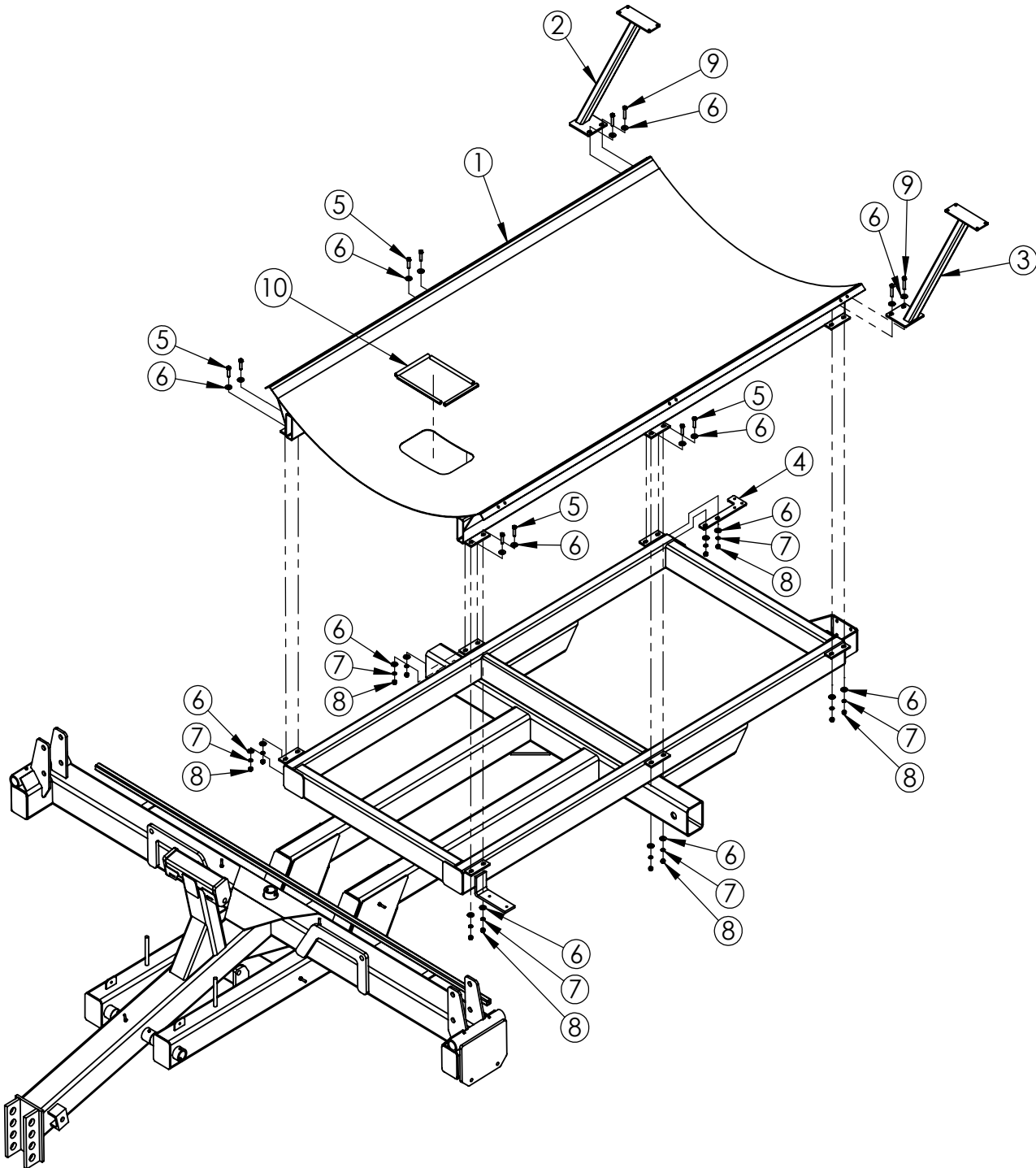
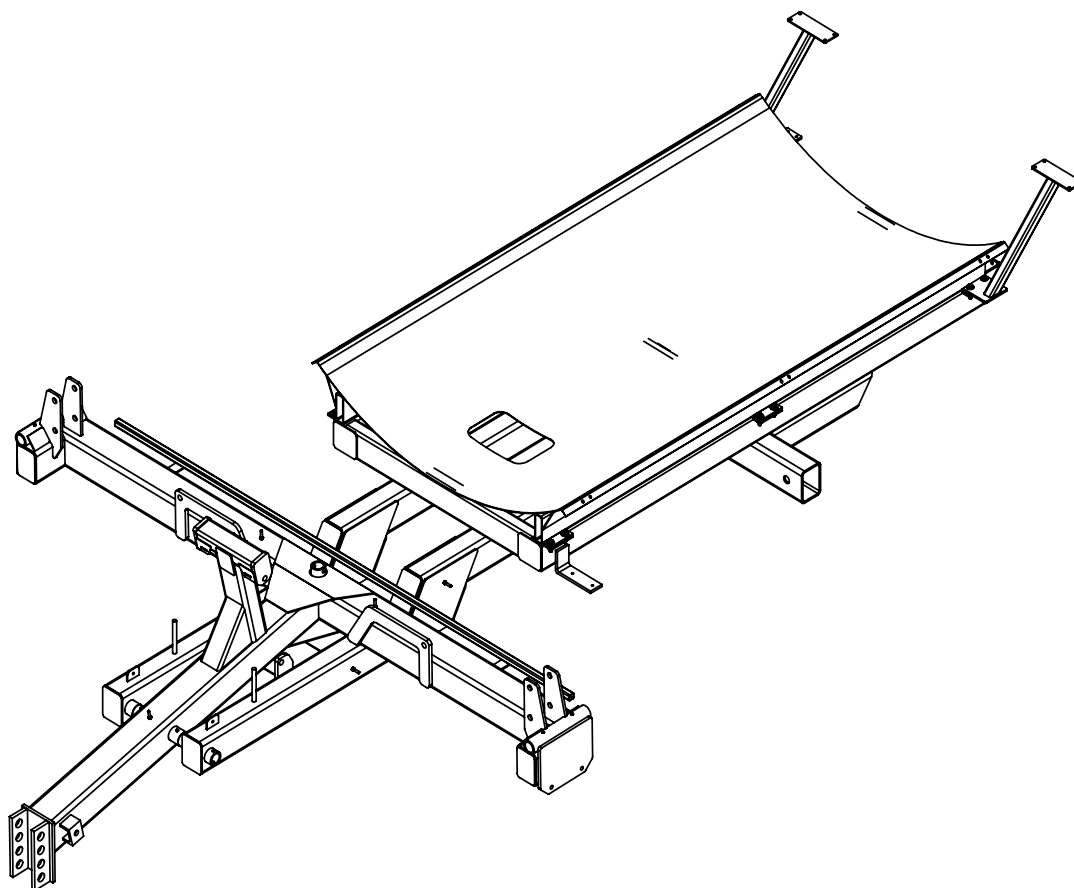


Fig.	Part no.	Qty	Description
1	76801819	1	Wdmt, 1600 Gallon Tank Saddle
2	762450081	1	Wdmt, Right Light Bar Mount Bracket
3	762450080	1	Wdmt, Left Light Bar Mount Bracket
4	76400168	1	Bracket, 2" Quick-Fill Mount (option)
5	600356128	8	Bolt, 1/2"-13 x 2" Gr 5
6	600381050	24	Washer, Flat 1/2"
7	600382053	12	Washer, Lock 1/2"
8	600365009	12	Nut, Hex 1/2"-13
9	600356022	4	Bolt, 1/2"-13 x 2-1/2" Gr 5
10*	76700122	*	Hose, 3/8" EPDM
			*Item 10 is sold by the foot using part no. 76700122.



1600 Gallon Tank

Instructions:

- Place tank in saddle ensuring sump is centered in saddle hole.
- Use tank straps and hardware as shown to secure tank to saddle. First tighten bolts down with one hex nut. Then lock nut with second hex nut.

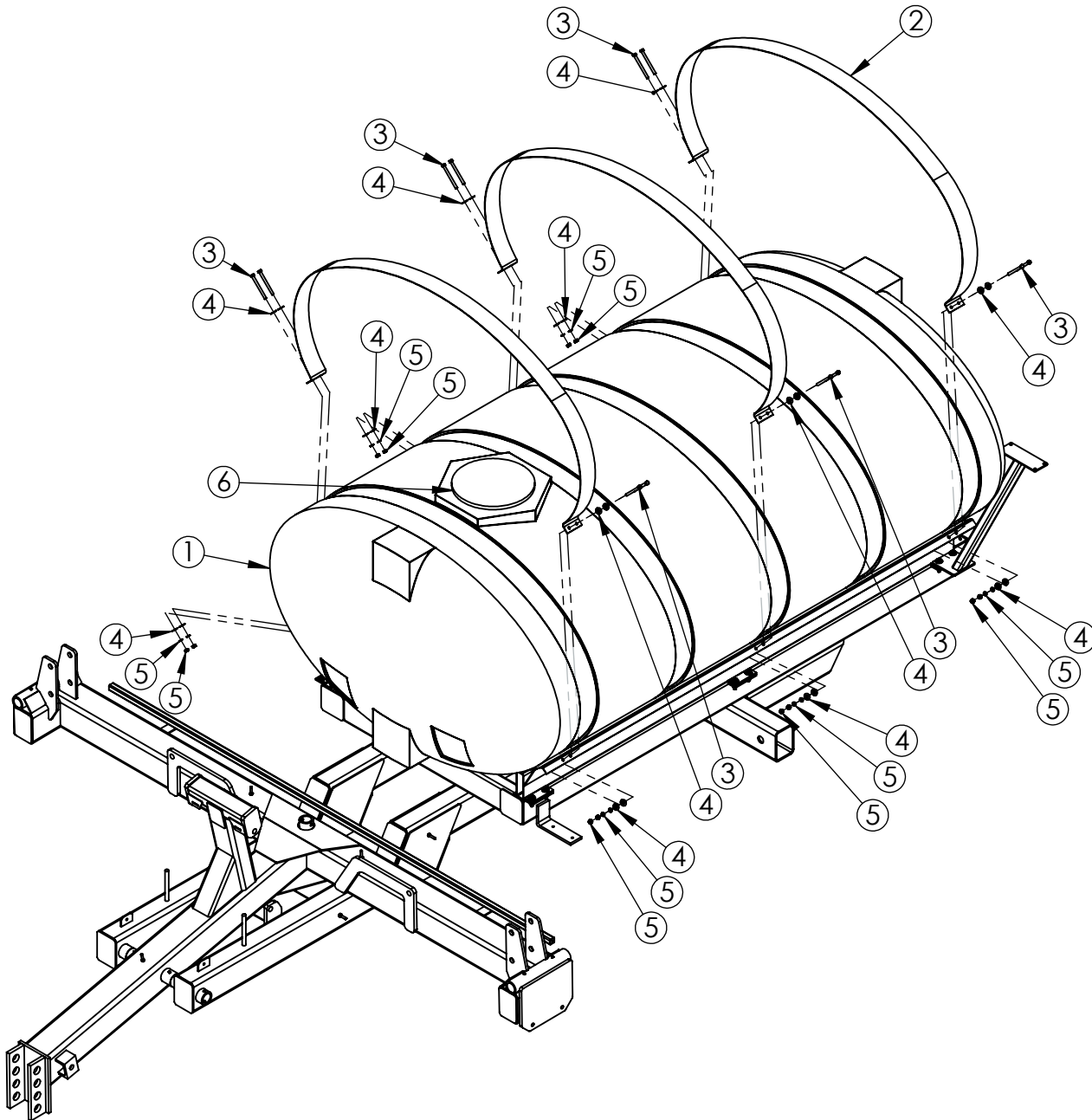
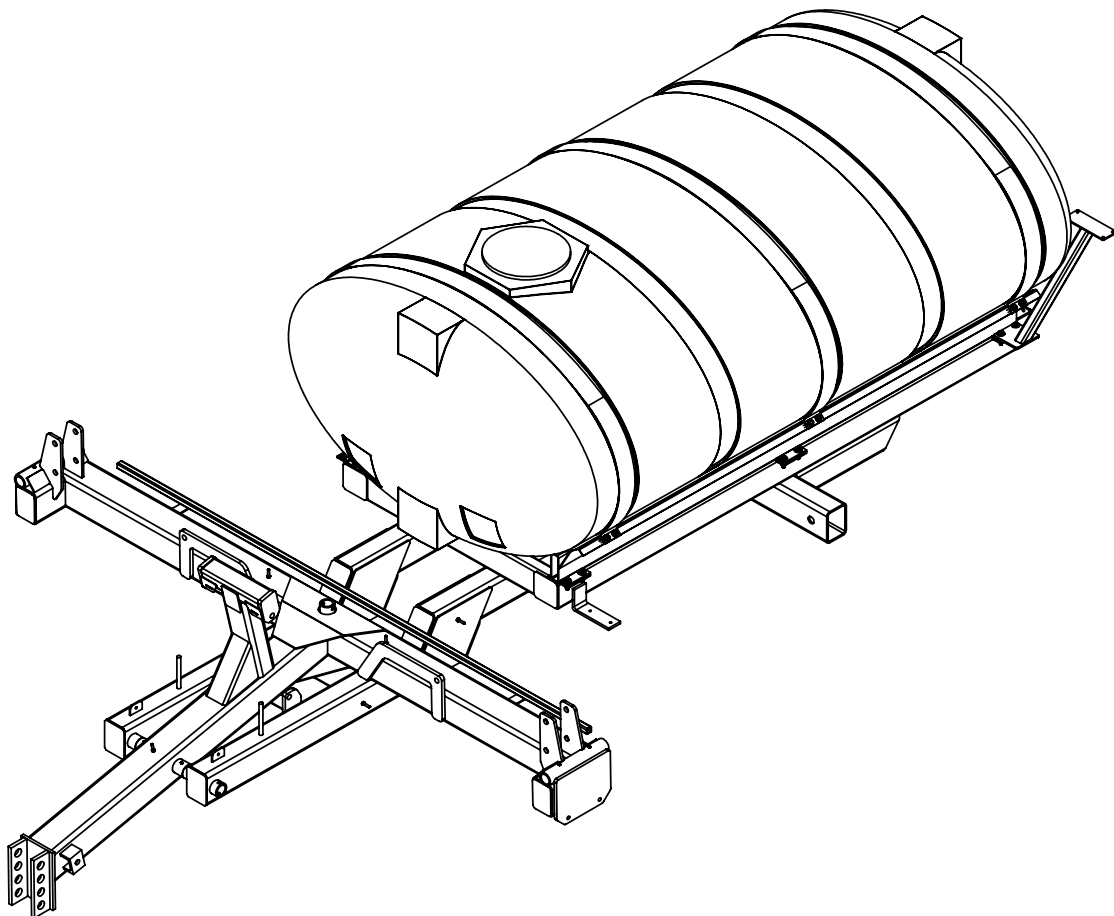


Fig.	Part no.	Qty	Description
1	76750037	1	Tank, 1600 Gallon Elliptical Poly
2	76400009	3	Strap, 1000/1600 Gallon Tank
3	76801838	12	Bolt, 7/16"-14 x 5" Gr 5 Full Thread
4	600381007	24	Washer, Flat 7/16"
5	600365050	24	Nut, Hex 7/16"-14
6	76750033	*	Lid, Tank (Included with Tank 76750037)



Wing Assembly

Instructions:

- Use hardware from hardware bag 761020953 for 22.5' model, or 761020954 for 27.5' and 32.5' models.
- Install 5/8" bolt and nuts into holes in end plate on mainframe with head sticking out and one nut on either side of plate. Note: Bolts are for wing level adjustment. Adjust after complete assembly of the unit.
- Install wing with hardware as shown.

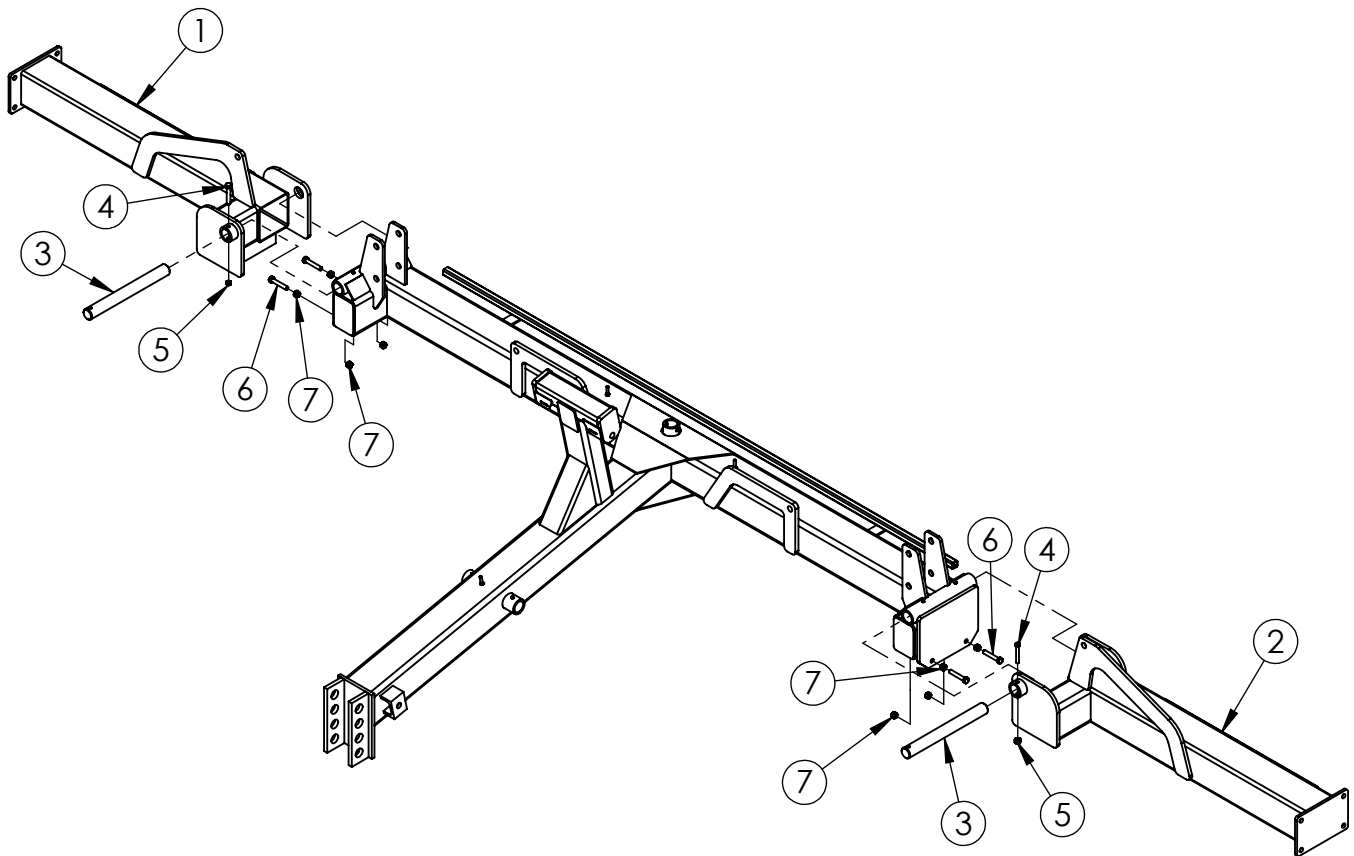
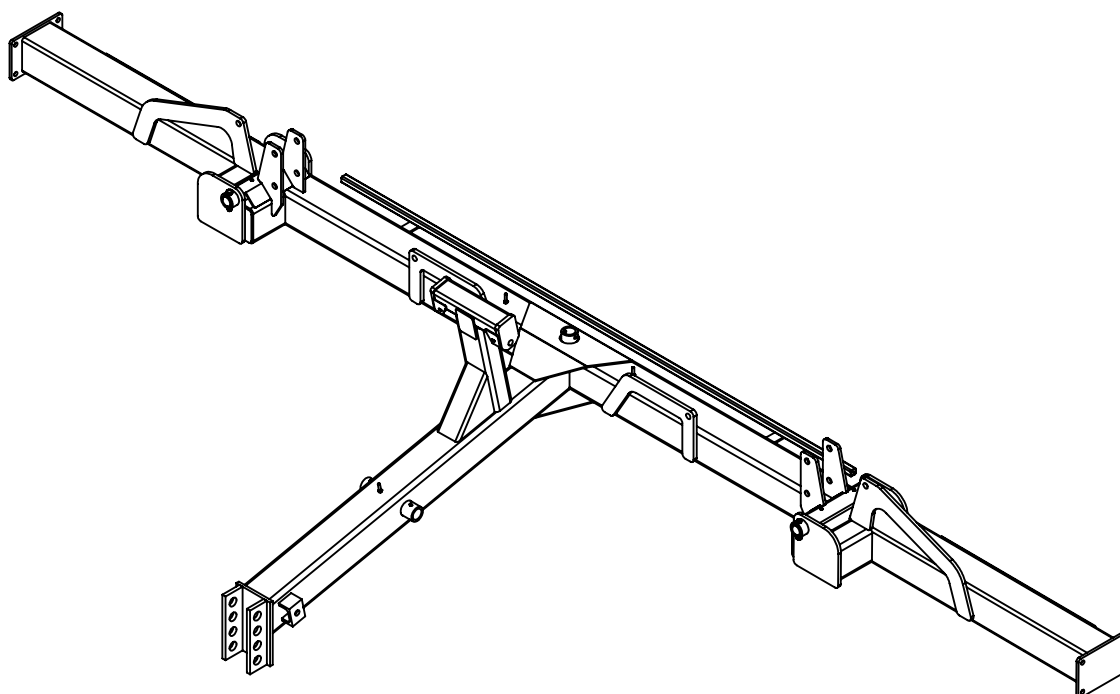


Fig.	Part no.	Qty	Description
1	762450030	1	Wdmt, F3400 Inner Wing-RH
2	762450031	1	Wdmt, F3400 Inner Wing-LH
3	766022555	2	Pin, 2" x 18.56" Plated
4	600356137	2	Bolt, 1/2"-13 x 3.5" Gr 5
5	600366030	2	Nut, Top Lock 1/2"-13
6	7600356164	4	Bolt, 5/8-11 x 3 Gr 5 Full Thread
7	600365014	8	Nut, Hex 5/8-11



Short Wing Extension (27.5')

Instructions:

- Use hardware in 761020954 hardware bag.
- Attach wing extension to wing using hardware as shown.
- Repeat for opposite side.

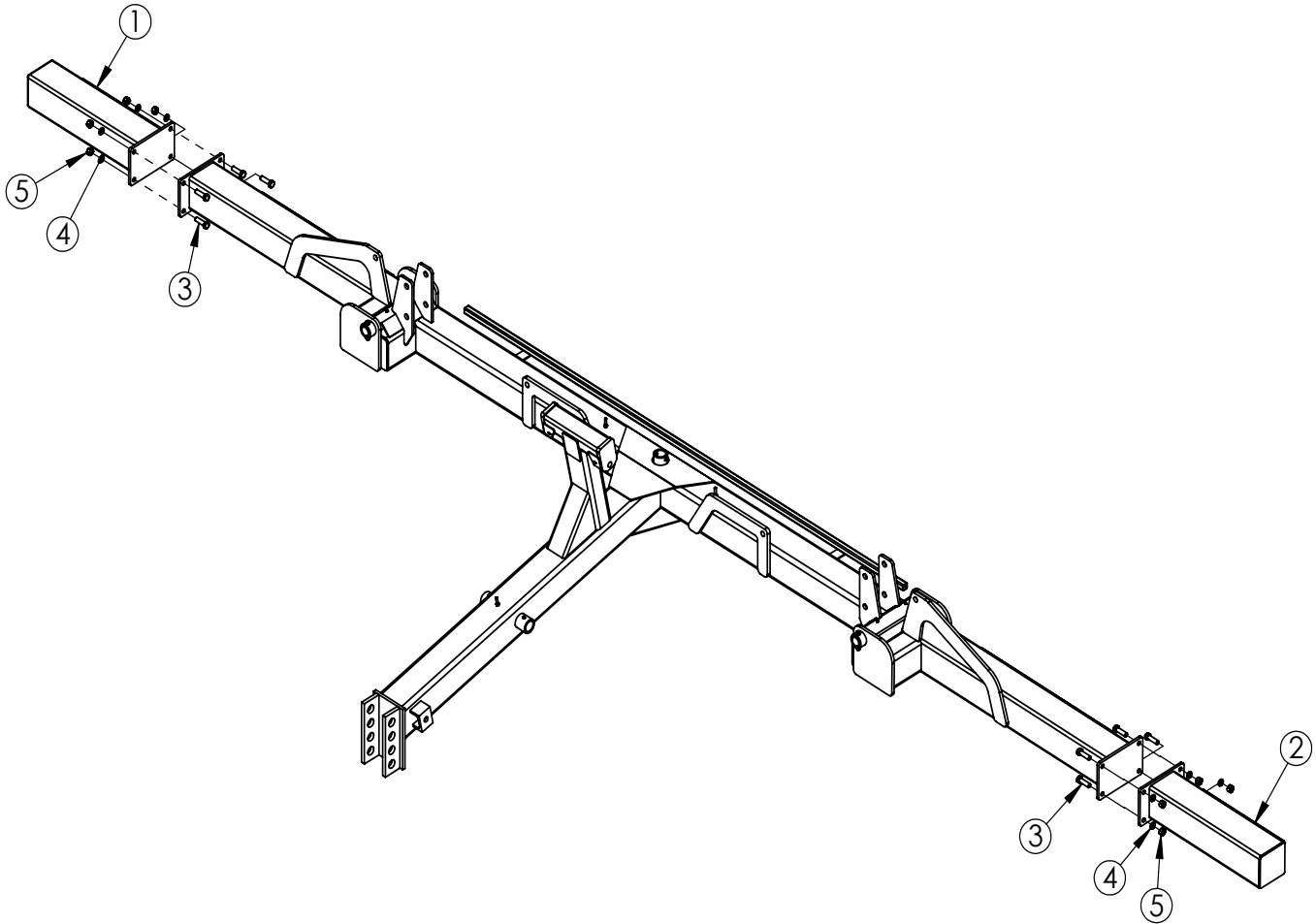
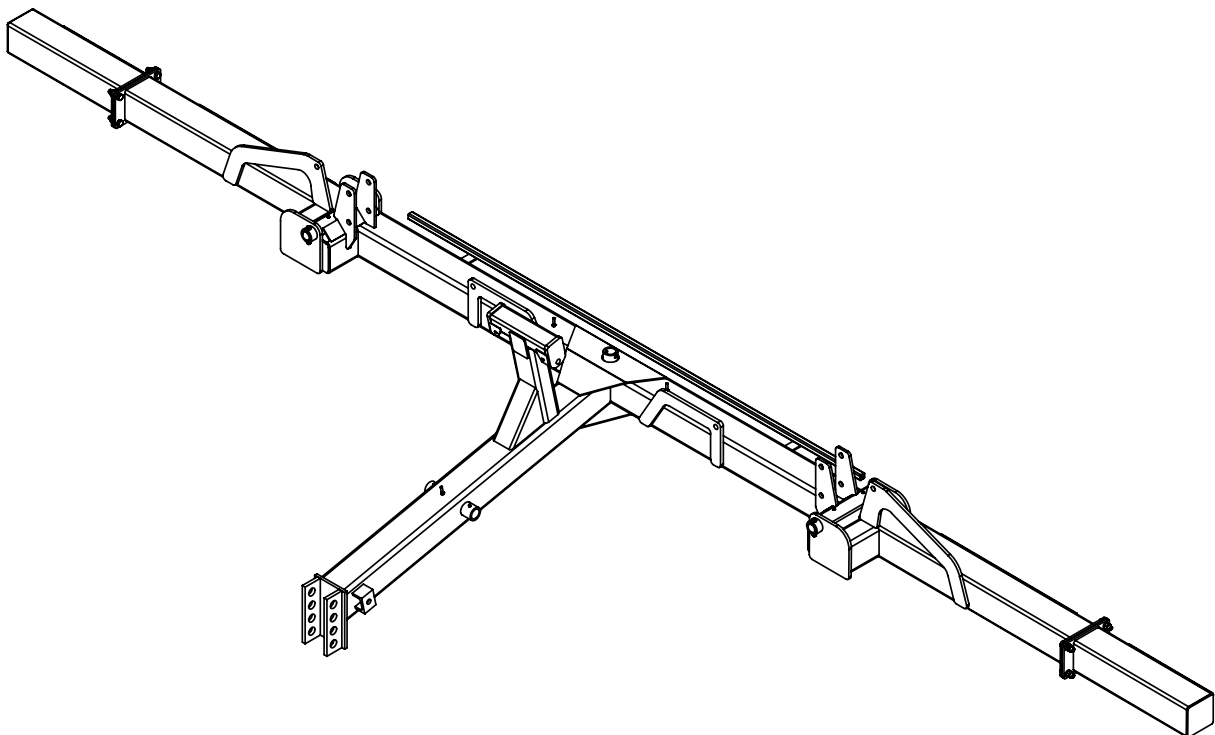


Fig.	Part no.	Qty	Description
1	76801724	1	Wdmt, Short Wing Extension-RH
2	76801725	1	Wdmt, Short Wing Extension-LH
3	600356011	8	Bolt 3/4"-10 X 2-1/2" Gr. 5
4	600382055	8	Washer, Lock 3/4"
5	600365019	8	Nut, Hex 3/4"-10



Long Wing Extension (32.5')

Instructions:

- Use hardware in 761020954 hardware bag.
- Attach wing extension to wing using hardware as shown.
- Repeat for opposite side.

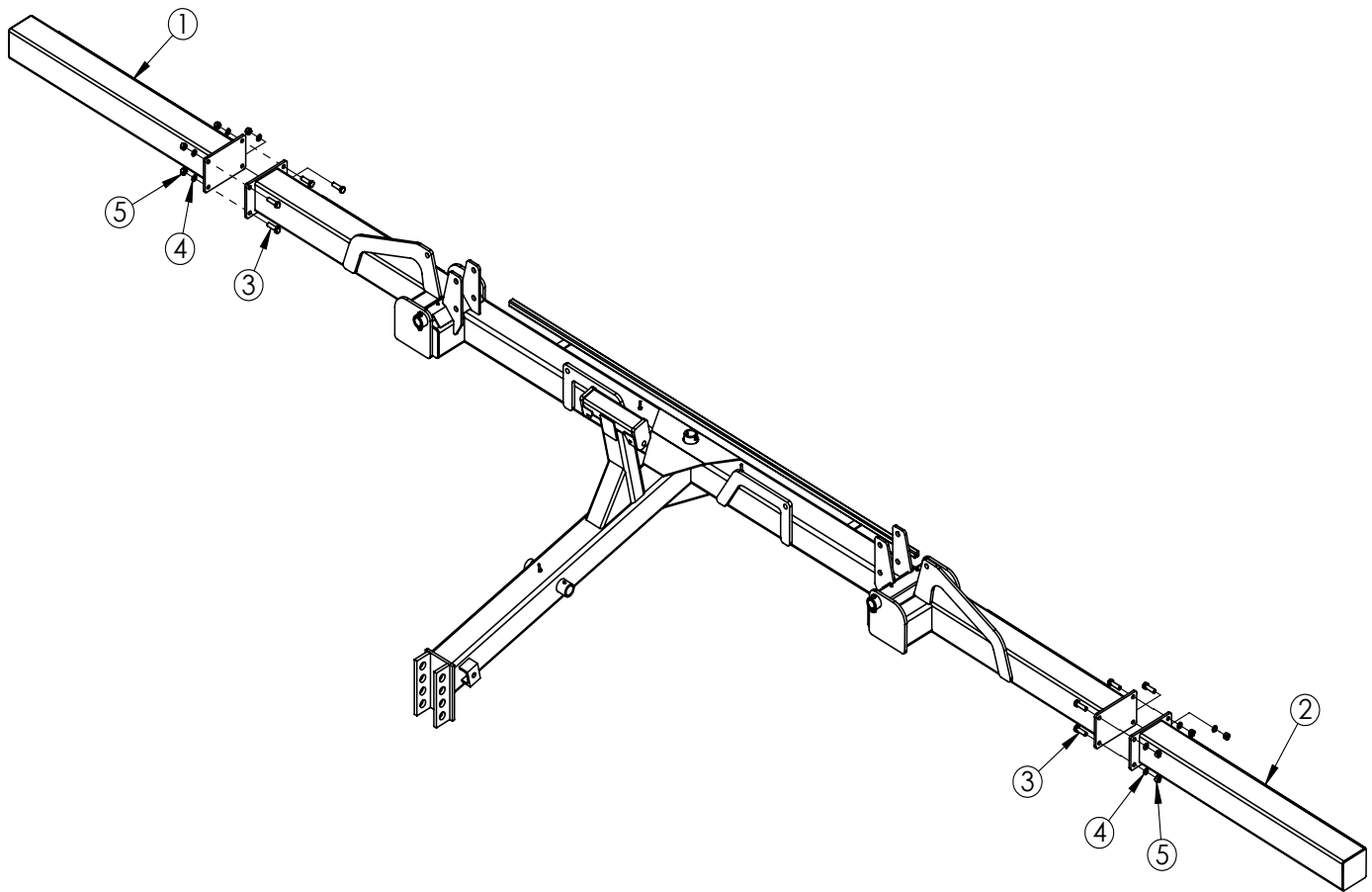
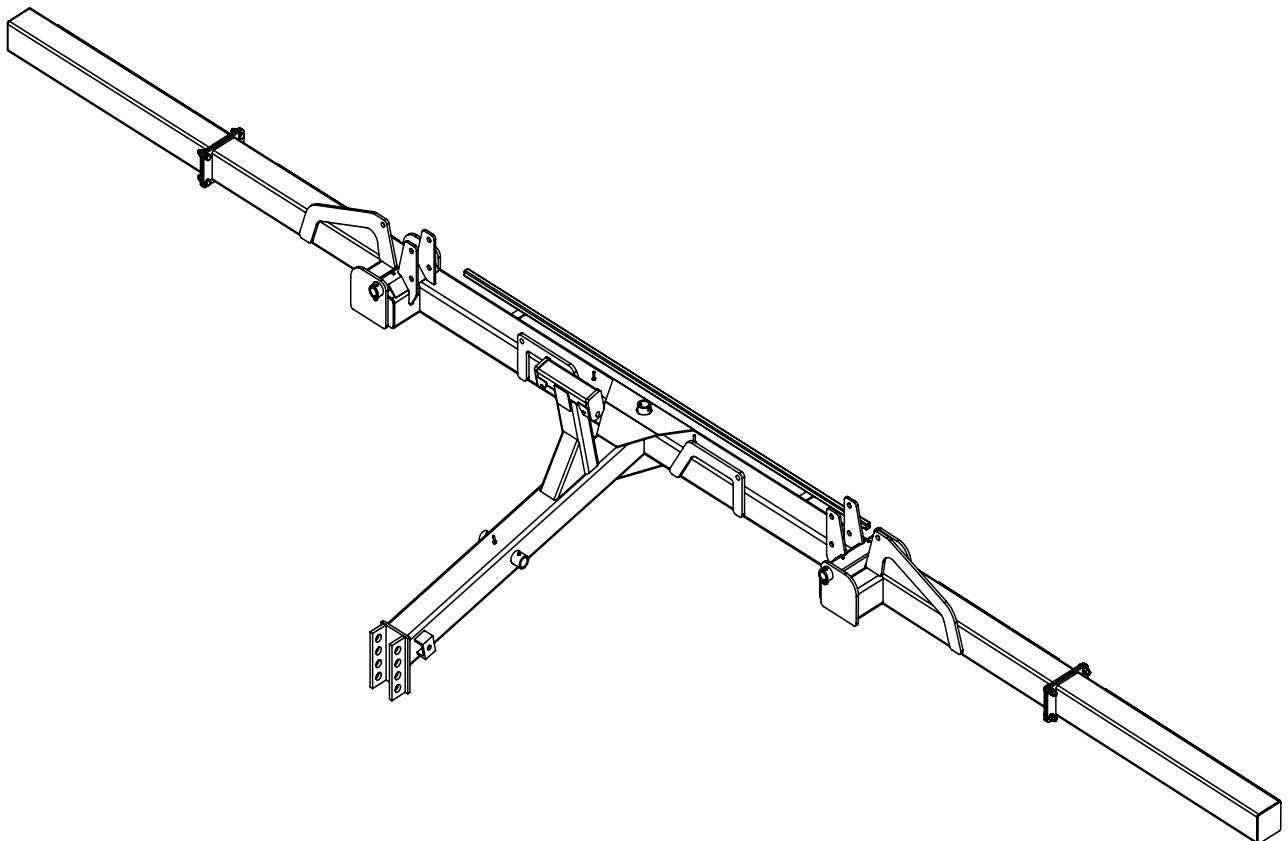


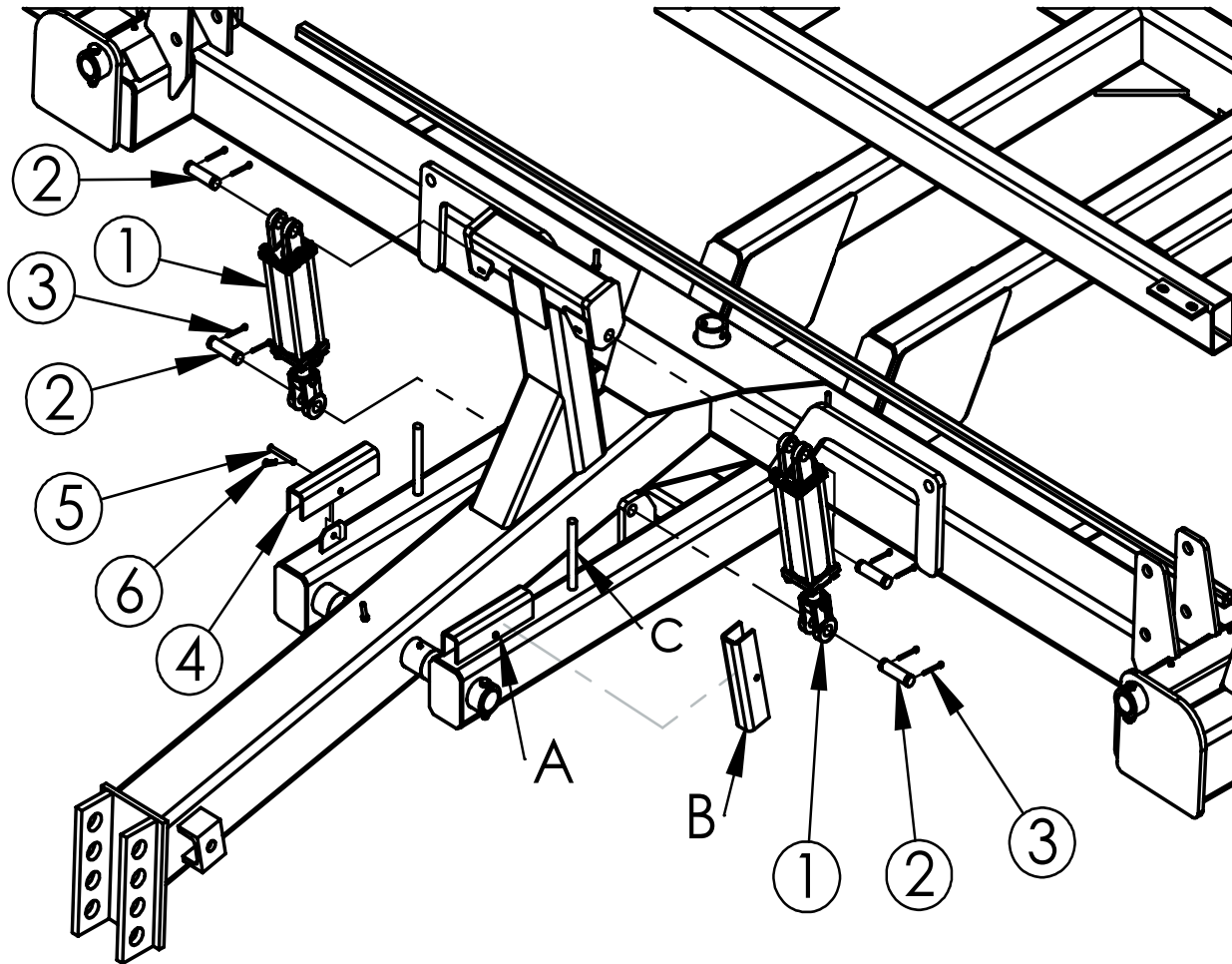
Fig.	Part no.	Qty	Description
1	76801774	1	Wdmt, Long Wing Extension-RH
2	76801775	1	Wdmt, Long Wing Extension-LH
3	600356011	8	Bolt 3/4"-10 X 2-1/2" Gr. 5
4	600382055	8	Washer, Lock 3/4"
5	600365019	8	Nut, Hex 3/4"-10



Lift Cylinder Assembly

Instructions:

- Attach 3" x 8" lift cylinder as shown with ports facing inward towards each other. Ensure base end of cylinder is attached to tongue/mainframe and rod end to chassis.
- Always use safety stops during transport. Store in position A when not in use.
- Store depth stops on rod C shown below. Note: When using depth stops, the same size stop must be used on both lift cylinders. Depth stops come in package of 4 (1-1/8" dia. to 1-3/8" dia with lengths 3/4", 1", 1-1/4", and 1-1/2")



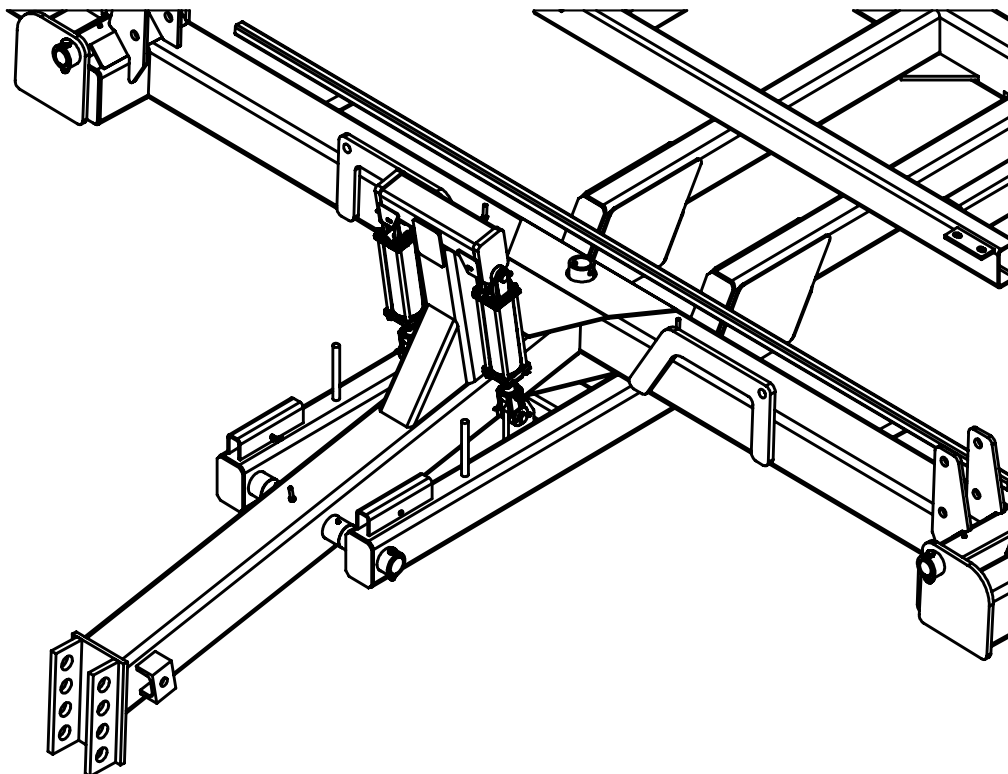
A. Safety lock storage

B. Always use Transport Safety Stops during Transport.

c. Depth Stop Storage



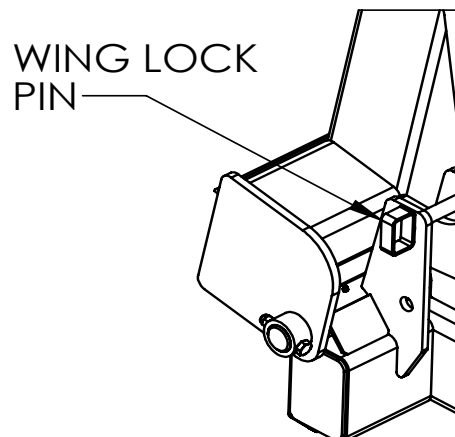
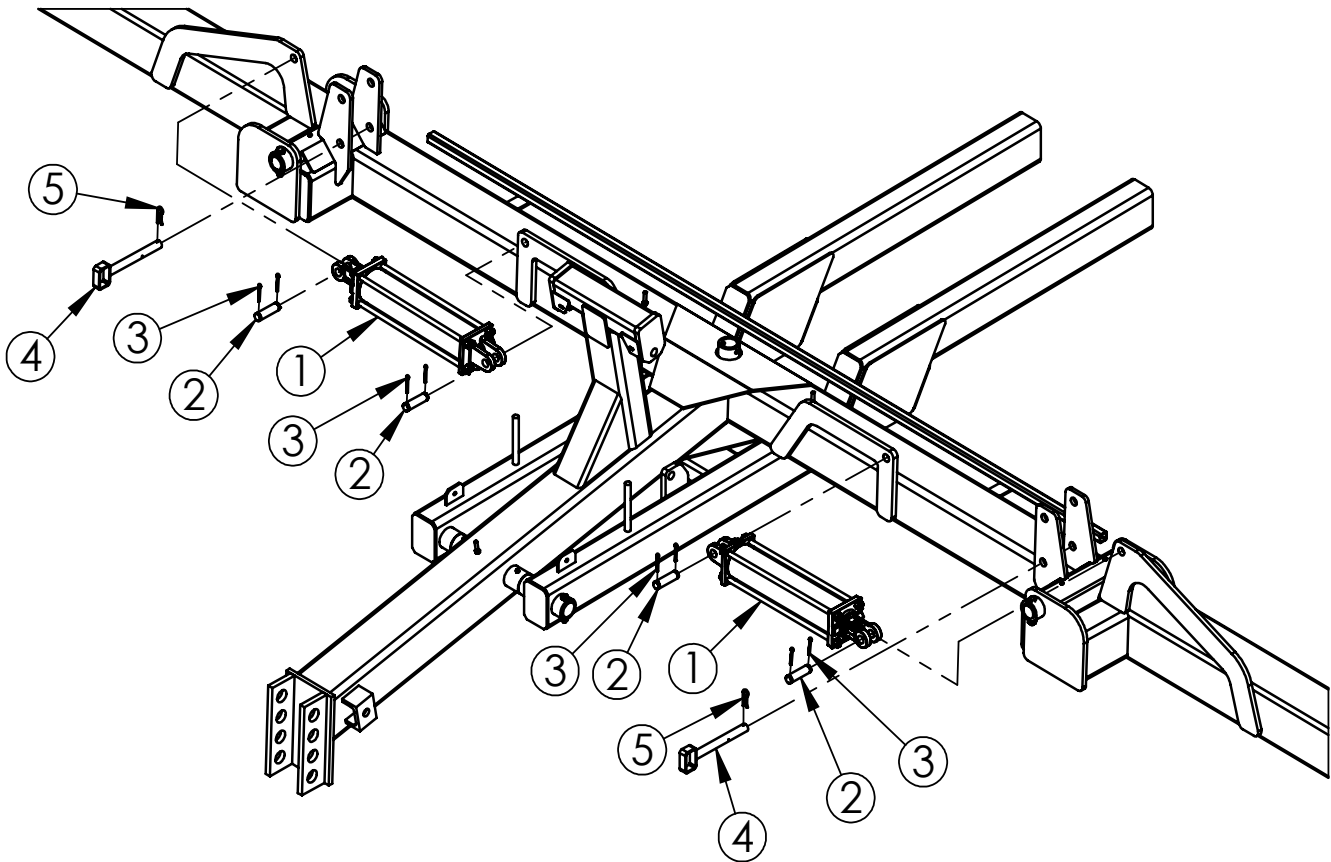
Fig.	Part no.	Qty	Description
1	76204002	2	Cylinder, 3" X 8"
2	76602112	4	Pin, 1" Dia x 3-3/8" Cylinder
3	600383058	8	Pin, Cotter 5/32" x 2"
4	764000831	2	Lock, 8" Stroke Cylinder Safety
5	76101257	2	Pin, Clevis 3/8" x 3"
6	76101258	2	Pin, Hair 2/32" x 1-1/2"
7	76450061	2	Stops, Depth (Package of 4, not shown)



Wing Fold Cylinder Assembly

Instructions:

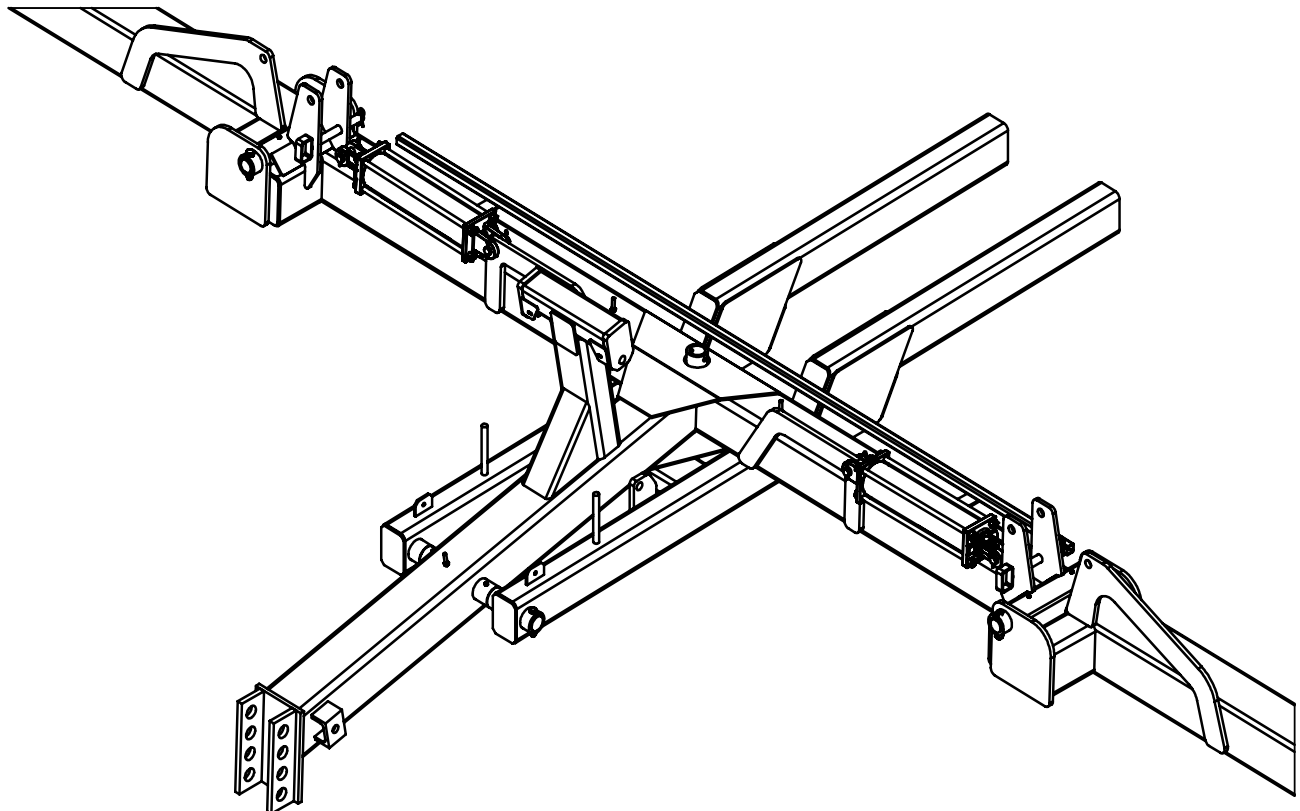
- Install 4" x 16" wing fold cylinders using hardware as shown with ports facing towards rear of machine. Attach base end of cylinder to tongue/mainframe. Leave clevis end unattached at this point.
- Install wing transport lock pins in lower hole in storage position. Move to upper hole to engage wing lock when wings are folded.



Wing Lock Pin in
Locked Position



Fig.	Part no.	Qty	Description
1	76204007	2	Cylinder, 4" x 16" Hydraulic
2	76602112	4	Pin, Cylinder 1" Dia x 3-3/8"
3	600383058	8	Pin, Cotter 5/32" x 2"
4	76602219	2	Pin, 1" Dia x 9-1/4"
5	76101426	2	Pin, Hair 3/16" x 2"

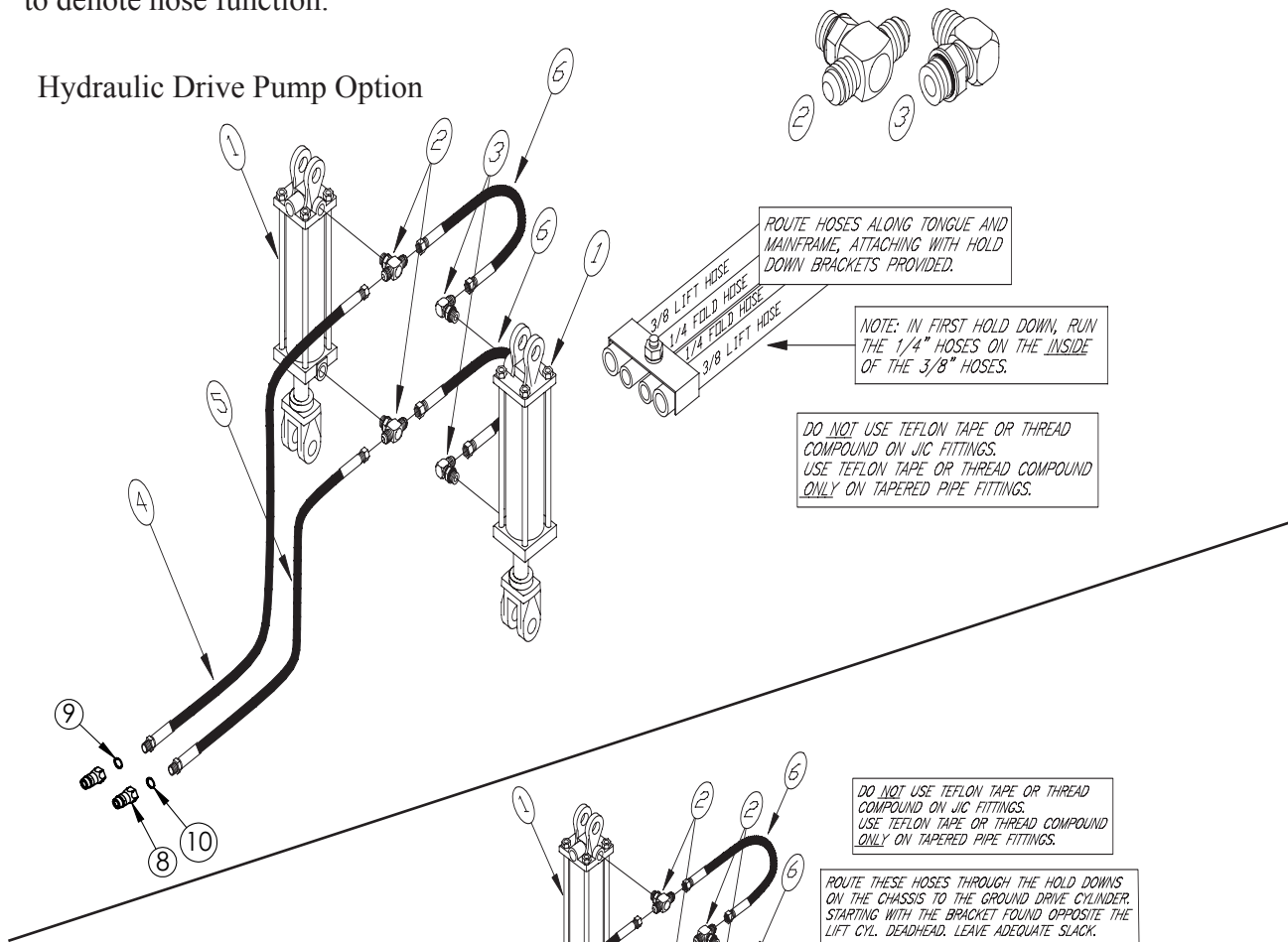


Lift Hydraulics

Instructions:

- If using hydraulic pump option, install hydraulic fittings and hoses as shown in Hydraulic Drive Option figure below. If using ground drive pump option, install hydraulic fittings and hoses as shown in Ground Drive Option figure below.
- Route hoses along tongue and mainframe. Route hoses from one cylinder to the next behind lift cylinder tower on tongue. Do not install hold down brackets until wing fold cylinder hoses have been installed.
- Install hydraulic couplers on end of hoses at front of implement and install colored plastic bands to denote hose function.

Hydraulic Drive Pump Option



Ground Drive Pump Option

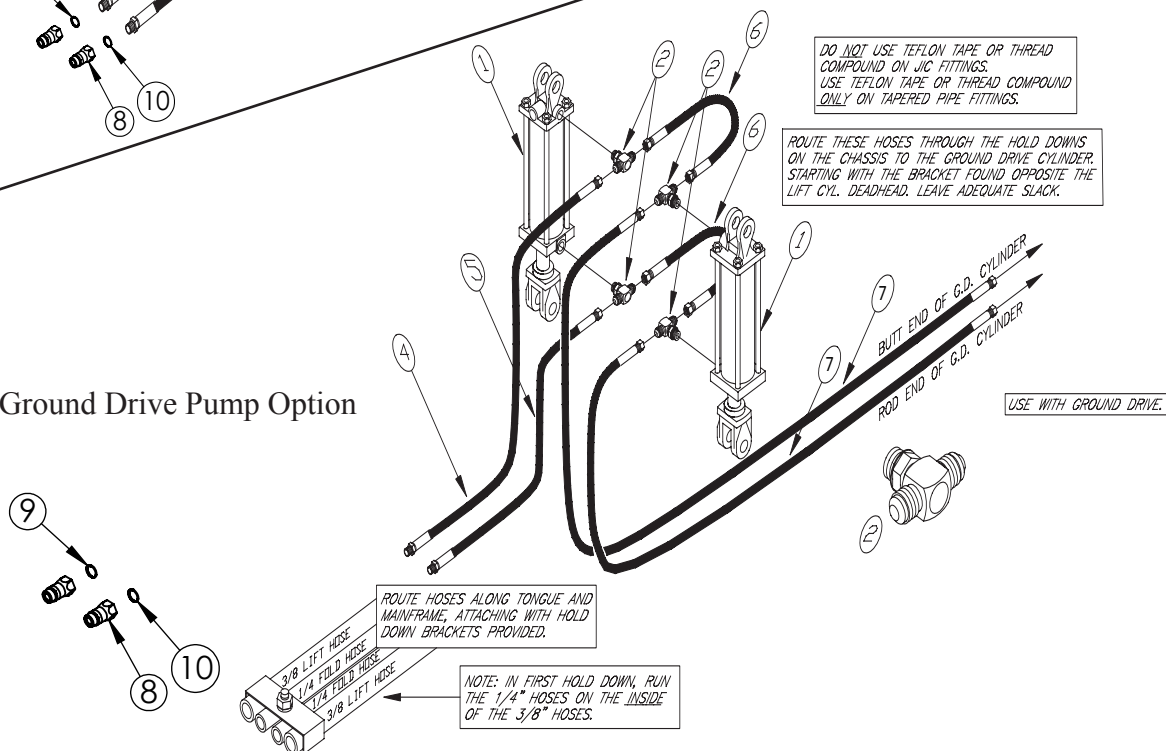


Fig.	Part no.	Qty	Description
1	76204002	2	Cylinder, Lift 3" x 8"
2	76201020	2	Fitting, Tee 8MB-8MJ-8MJ Branch
3	76201002	2	Fitting, 8MB-8MJ90 (Hydraulic Drive Option Only)
4	76202200	1	Hose, 3/8" x 120" 8FJ x 8MP
5	76202199	1	Hose, 3/8" x 108" 8FJ x 8MP
6	76202028	2	Hose, 3/8" x 20" 8FJ x 8FJ
7	76202198	2	Hose, 3/8" x 168" 8FJ x 8FJ (Ground Drive Option Only)
8	600470110	2	Coupler, 1/2" Male - 1/2" FNPT
9	7600470519	1	Band, Plastic Spiral 3/4" Red
10	7600470520	1	Band, Plastic Spiral 3/4" Blue

Wing Fold Hydraulics Without Down Pressure Valve

Instructions:

- Install hydraulic fittings as shown.
- Install hydraulic hoses.
- Route hoses along tongue and mainframe, attach with hold down brackets. Run 1/4" hoses for wing fold cylinders on inside of 3/8" lift cylinder hoses as shown. Leave hold down brackets loose until after purging hydraulic system.
- Install hydraulic couplers on end of hoses at front of implement and install colored plastic bands to denote hose function.

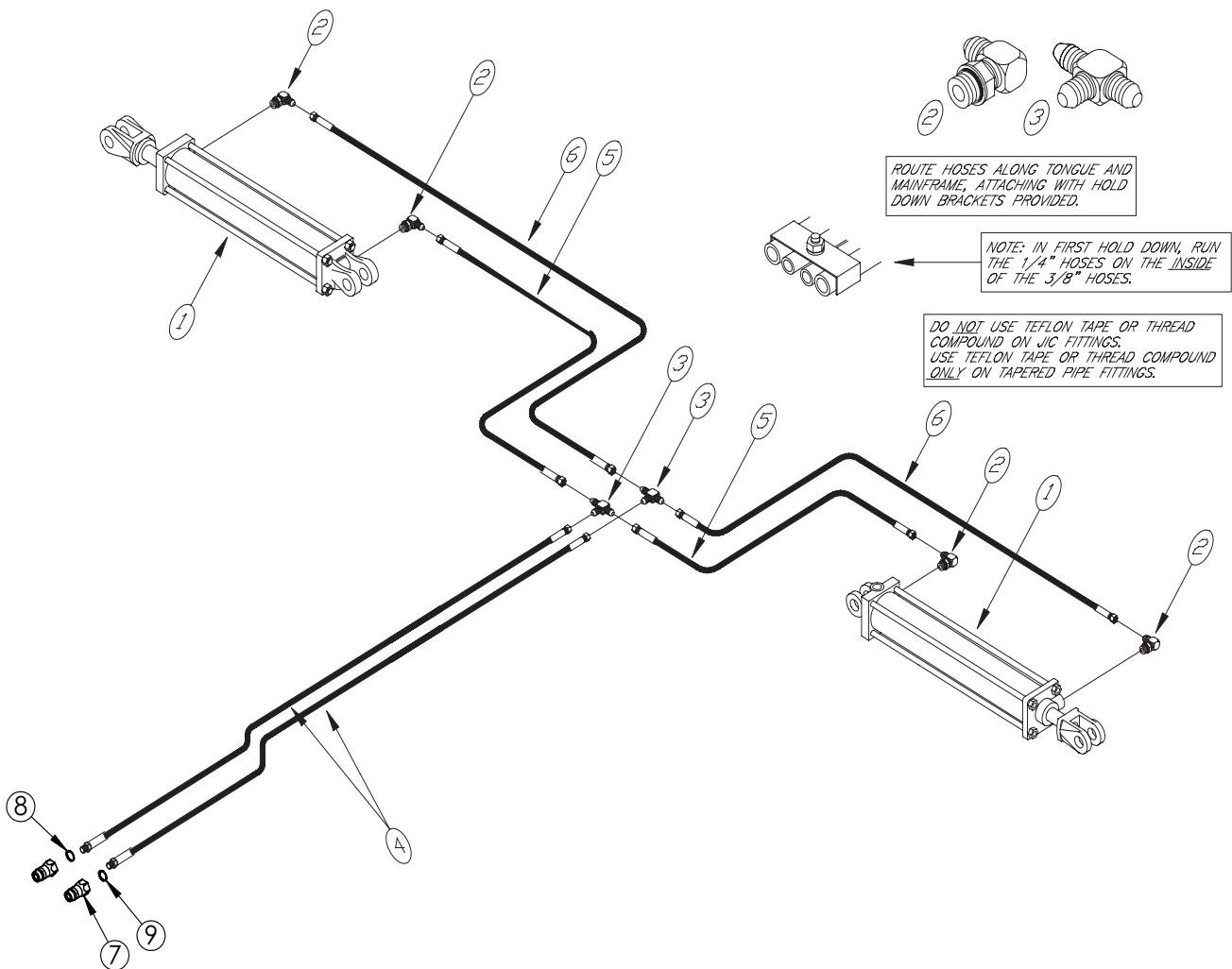


Fig.	Part no.	Qty	Description
1	76204007	2	Cylinder, 4" x 16" Hydraulic
2	76201001	4	Fitting, 8MB-6MJ90
3	76201009	2	Fitting, Tee 6MJ-6MJ-6MJ
4	76202209	2	Hose 1/4" x 124" -6FJ- 8MP
5	76202002	2	Hose 1/4" x 36" -6FJ-6FJ
6	76202046	2	Hose 1/4" x 56" -6FJ-6FJ
7	600470110	2	Coupler, 1/2" Male - 1/2" FNPT
8	7600470521	1	Band, Plastic Spiral 3/4" Yellow
9	7600470522	1	Band, Plastic Spiral 3/4" Green

Wing Fold Hydraulics With Down Pressure Valve

- Install downpressure valve to mount plate using 3/8"-16 x 3" bolts, 3/8" washers, and 3/8" nuts.
- Install 9/16" o-ring to JIC 45° elbows to front ports of downpressure valve.
- Connect 1/4" wing cylinder hoses leading to front couplers to 45° elbows in front ports of downpressure valve.
- Install 9/16" o-ring to JIC adapters in rear ports of downpressure valve.
- Attach tee fitting to orifice fitting on "REG" port and connect hoses leading to base end of inner wing cylinder.
- Attach tee fitting to adapter on "T" port and connect hoses leading to rod end of inner wing cylinder.
- Install 9/16" o-ring to female NPT adapter to top port of downpressure valve.
- Screw pressure gauge into adapter.

NOTE: See Operator's Manual to set Down Pressure

NOTE: Down Pressure Valve compatible with "Closed Center" hydraulic systems only. If tractor does not have a closed center hydraulic system, down pressure valve must be removed and replaced with tee fittings. Hydraulic outflow to downpressure valve must be reduced to maximum 10 GPM. Failure to do so will result in damage to system and extreme heat generation.

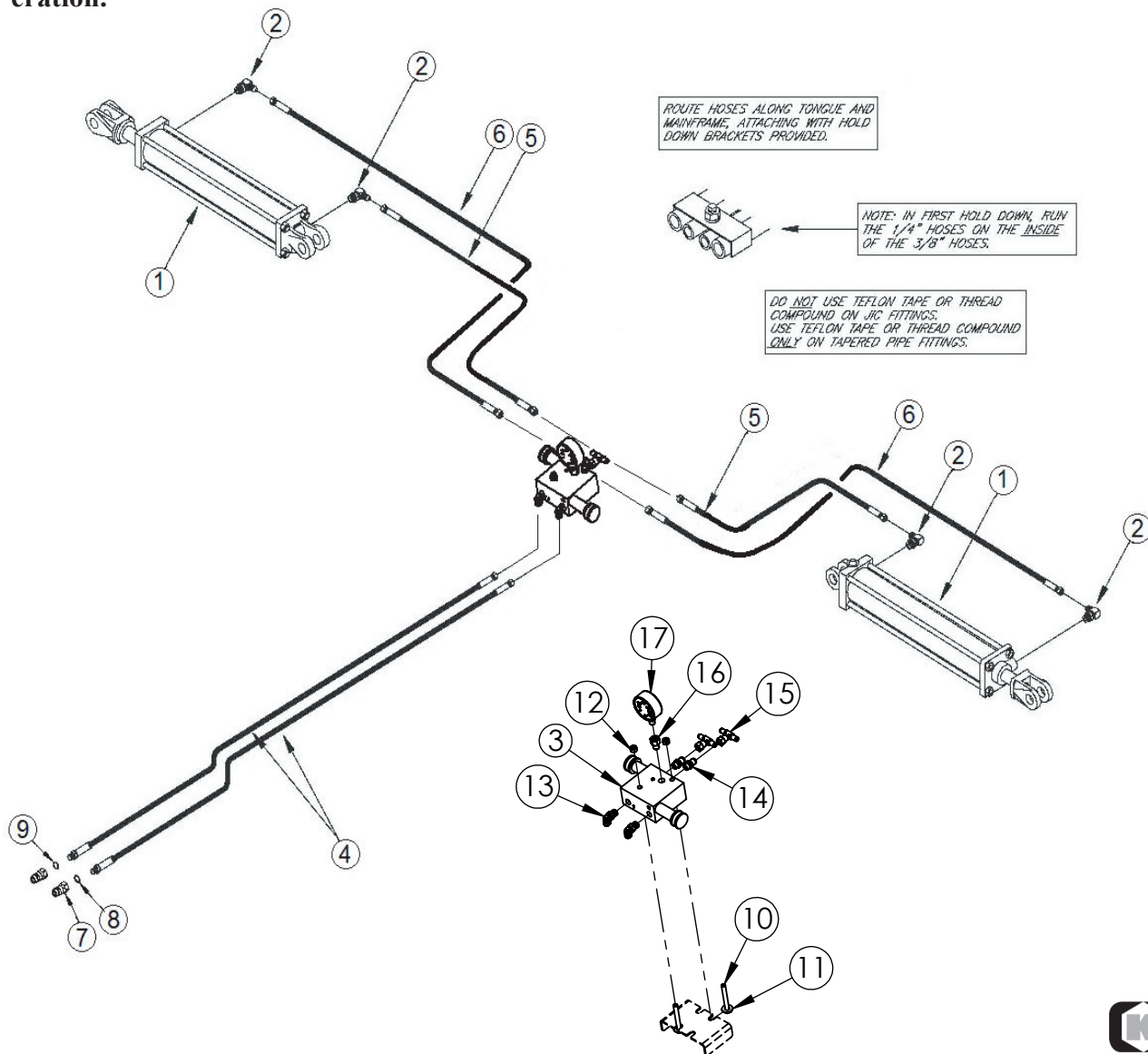
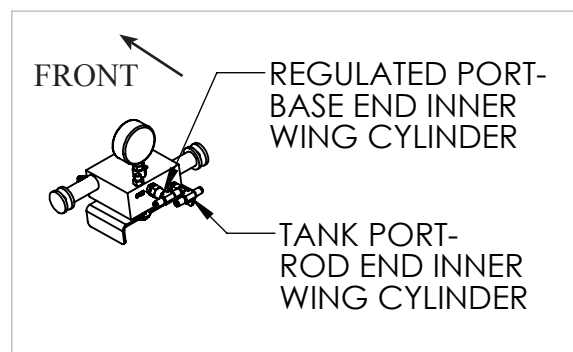
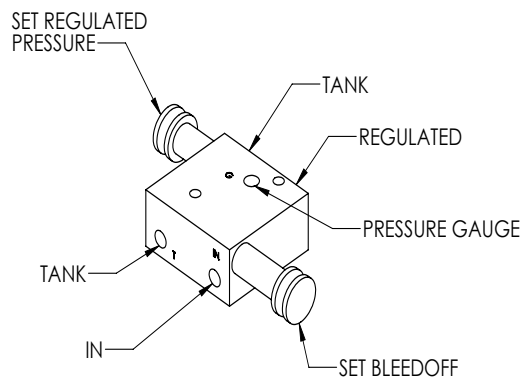


Fig.	Part no.	Qty	Description
1	76204007	2	Cylinder, 4" x 16" Hydraulic
2	76201001	4	Fitting, 8MB-6MJ90
3	762030001	1	Valve, Down Pressure
4	76202209	2	Hose 1/4" x 124" -6FJ- 8MP
5	76202002	2	Hose 1/4" x 36" -6FJ-6FJ
6	76202046	2	Hose 1/4" x 56" -6FJ-6FJ
7	600470110	2	Coupler, 1/2" Male - 1/2" FNPT
8	7600470521	1	Band, Plastic Spiral 3/4" Yellow
9	7600470522	1	Band, Plastic Spiral 3/4" Green
10	600356019	2	Bolt, 3/8"-16 x 3" Gr 5
11	600381006	2	Washer, Flat 3/8"
12	600366028	2	Nut, Toplock 3/8"-16
13	7600470529	2	Elbow, 6MB-6MJ45
14	76201007	2	Adapter, 6MB-6MJ
15	76201050	2	Tee, 6FJX-6MJ-6MJ Branch
16	762010020	1	Adapter, 6MB-4FP
17	7600470528	1	Gauge, 3000 PSI-#4FP



Hose Routing

Instructions:

-Route hoses along tongue and mainframe, attach with hold down brackets. Run 1/4" hoses for wing fold cylinders on inside of 3/8" lift cylinder hoses as shown. Leave hold down brackets loose until after purging hydraulic system.

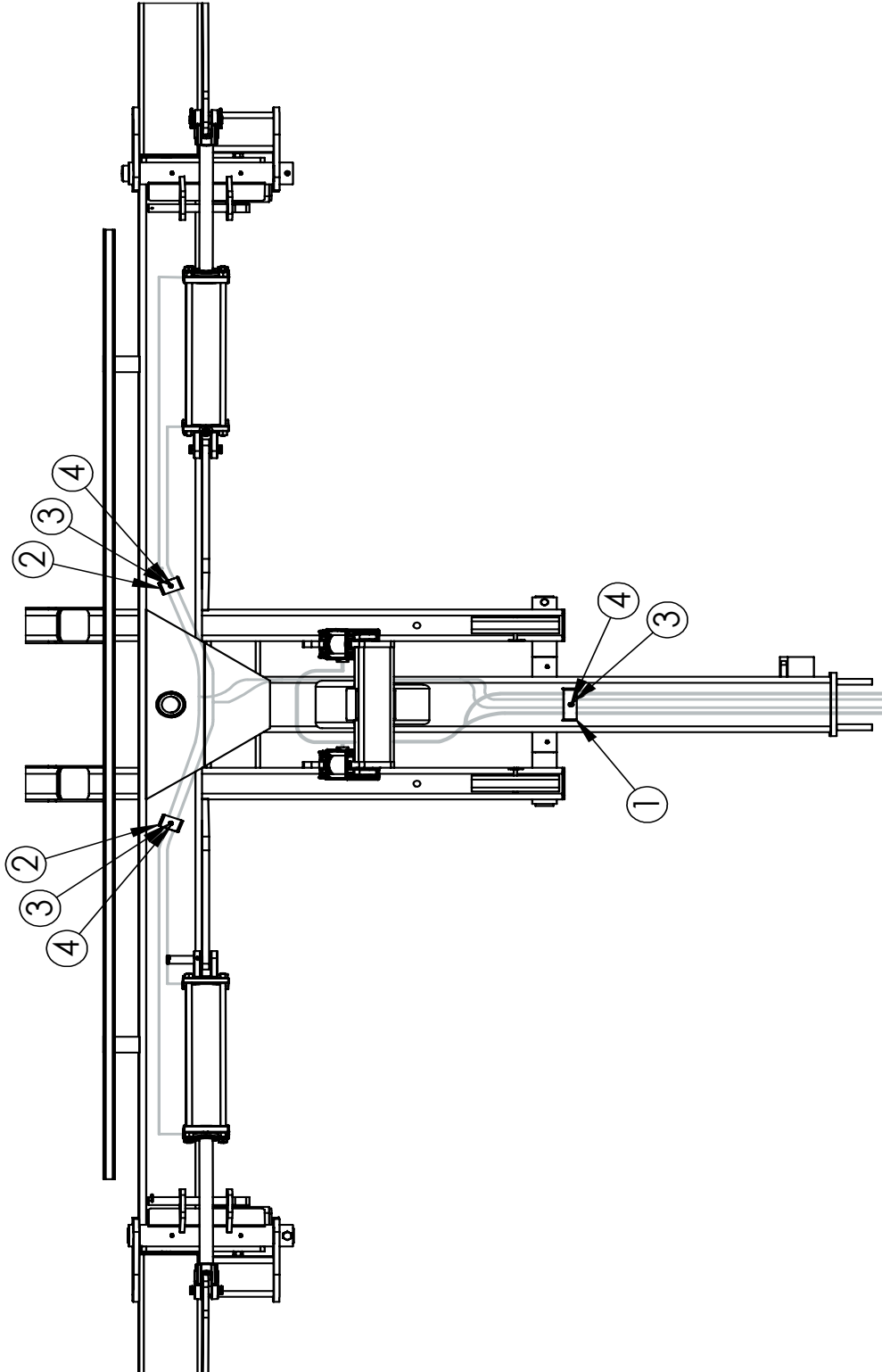


Fig.	Part no.	Qty	Description
1	76400080	1	Bracket, 4 Hose Hold Down
2	76400117	2	Bracket, 2 Hose Hold Down
3	600382051	3	Washer, Lock 3/8"
4	600365008	3	Nut, Hex 3/8-16

Light Bar and Wiring Assembly

Instructions:

- Install light bar on light bar mounts, centering bar with respect to overall machine.
- Install tail lights (red lense to rear) and amber flashing lights.
- Route main wire harness from front along tongue and mainframe. Route along chassis, under tank saddle and up left light bar mount.
- Connect 6 ft. "y" harness and route along light bar to left tail light and left flashing light.
- Connect 10 ft. "y" harness and route along light bar to right tail light and right flashing light.
- Secure wiring with cable ties.

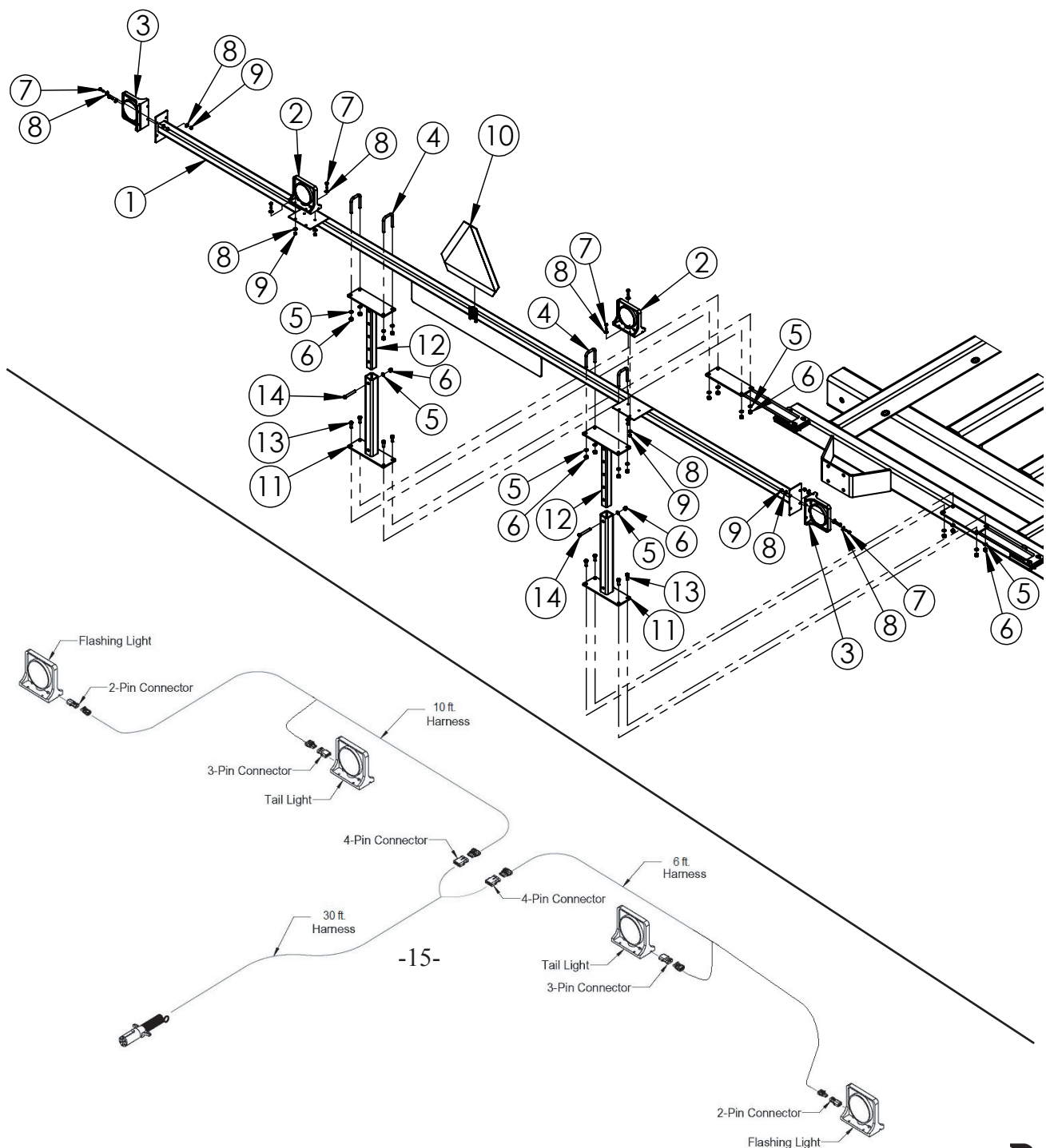
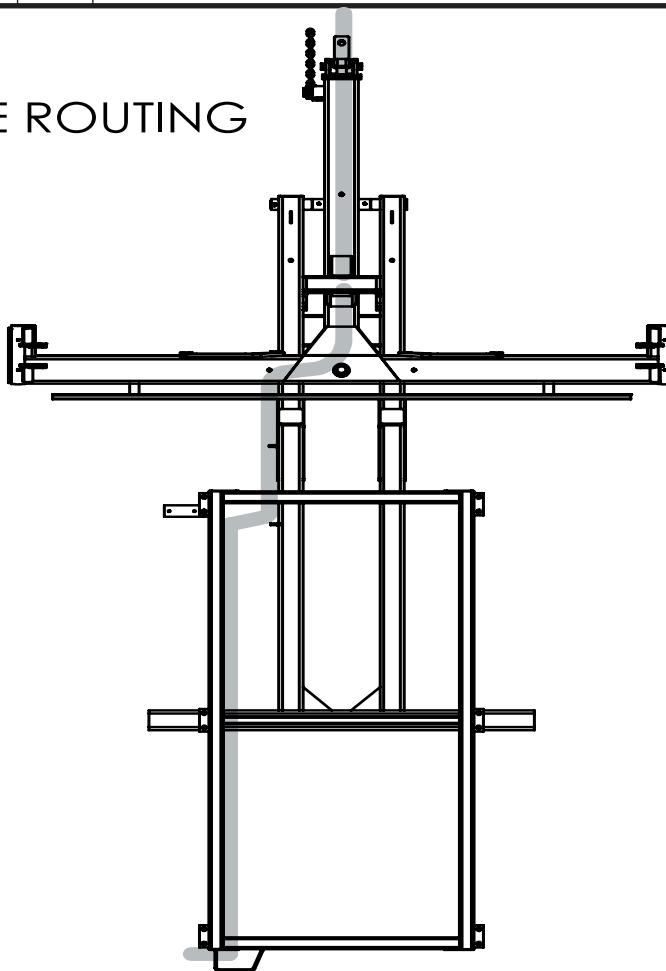


Fig.	Part no.	Qty	Description
1	762450072	1	Wdmt, Light Bar
2	*	2	Light, Tail (Included in Light Kit)
3	*	2	Light, Amber Flashing (Included in Light Kit)
4	7600373128	4	U-Bolt, 3/8"-16 x 2" x 3"
5	600382051	18	Washer, Lock 3/8
6	600365008	18	Nut, 3/8"-16
7	600356138	8	Bolt, 1/4"-20 x 1" Gr 5
8	600381023	16	Washer, 1/4"
9	600366026	8	Nut, 1/4"-20
10	601140845	1	Assy, SMV
11	762450102	2	Wdmt, Lower Light Mount Extension
12	762450104	2	Wdmt, Upper Light Mount Extension
13	600356020	8	Bolt, 3/8"-16 x 1.00 Gr. 5
14	7600356163	2	Bolt, 3/8"-16 x 2.75 Gr. 5
15	762450094	1	Kit, Light Kit (Includes Items 2 & 3 and wire harnesses)

WIRE ROUTING

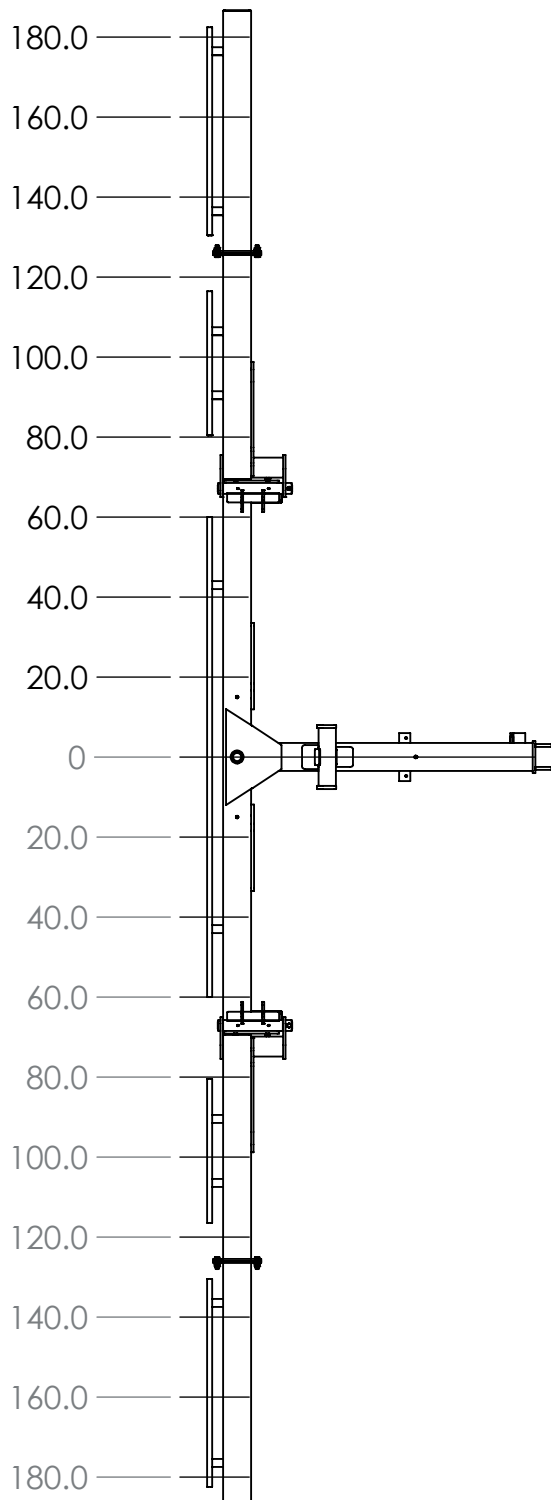


Row Unit Placement (20" and 30" rows)

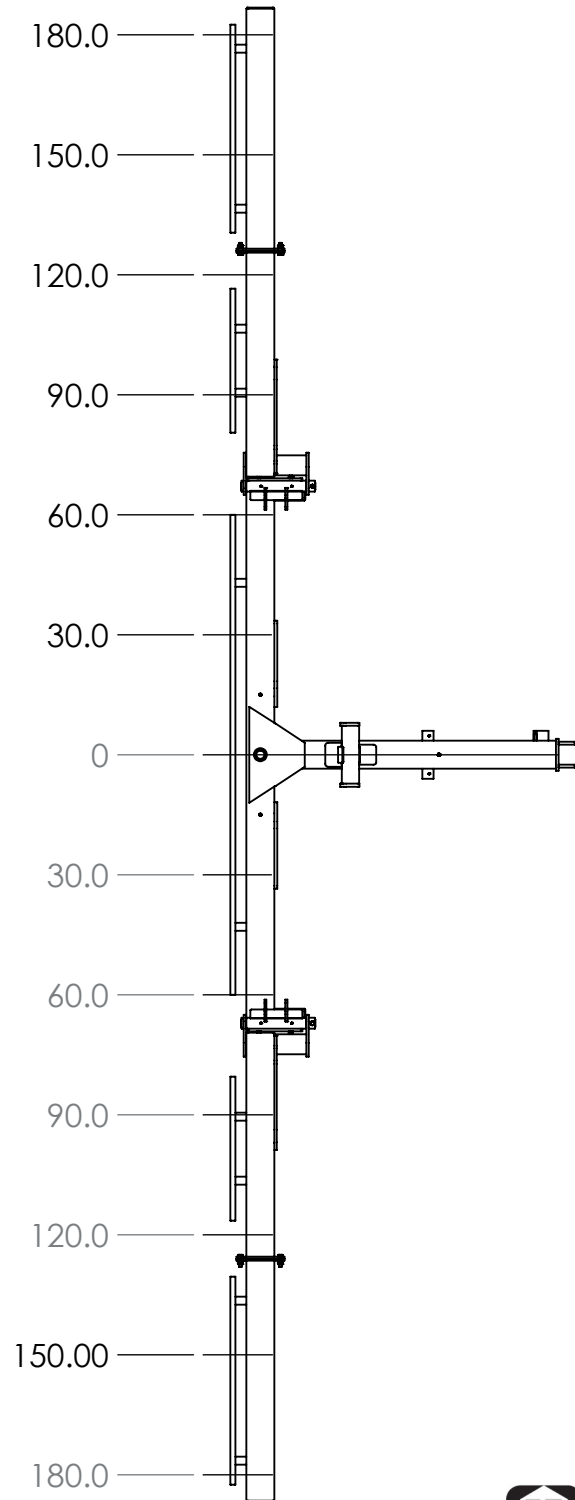
Instructions:

-Mark tool bar with marker or paint marker for locations to place row units.

20" Row Spacing



30" Row Spacing

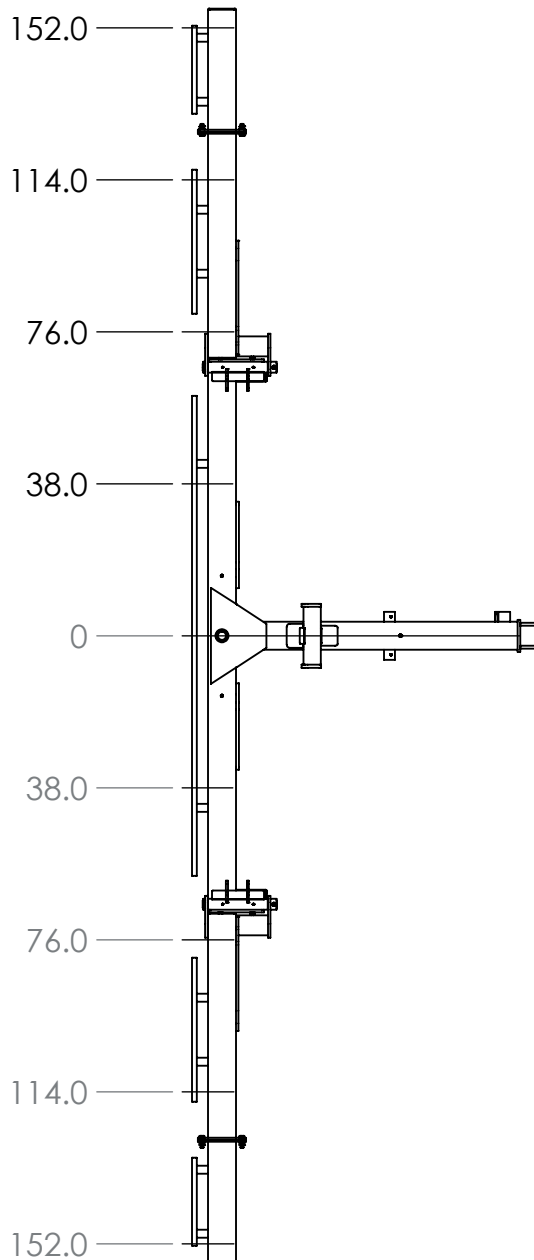


Row Unit Placement (38" and 40" rows)

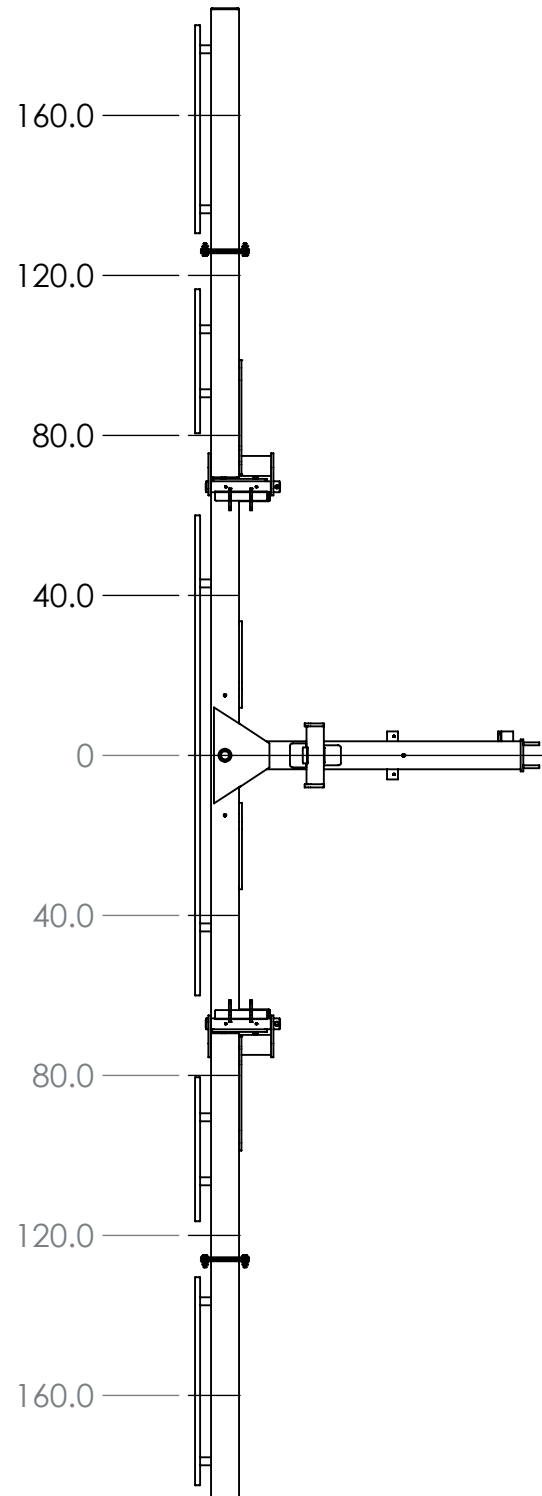
Instructions:

-Mark tool bar with marker or paint marker for locations to place row units.

38" Row Spacing



40" Row Spacing

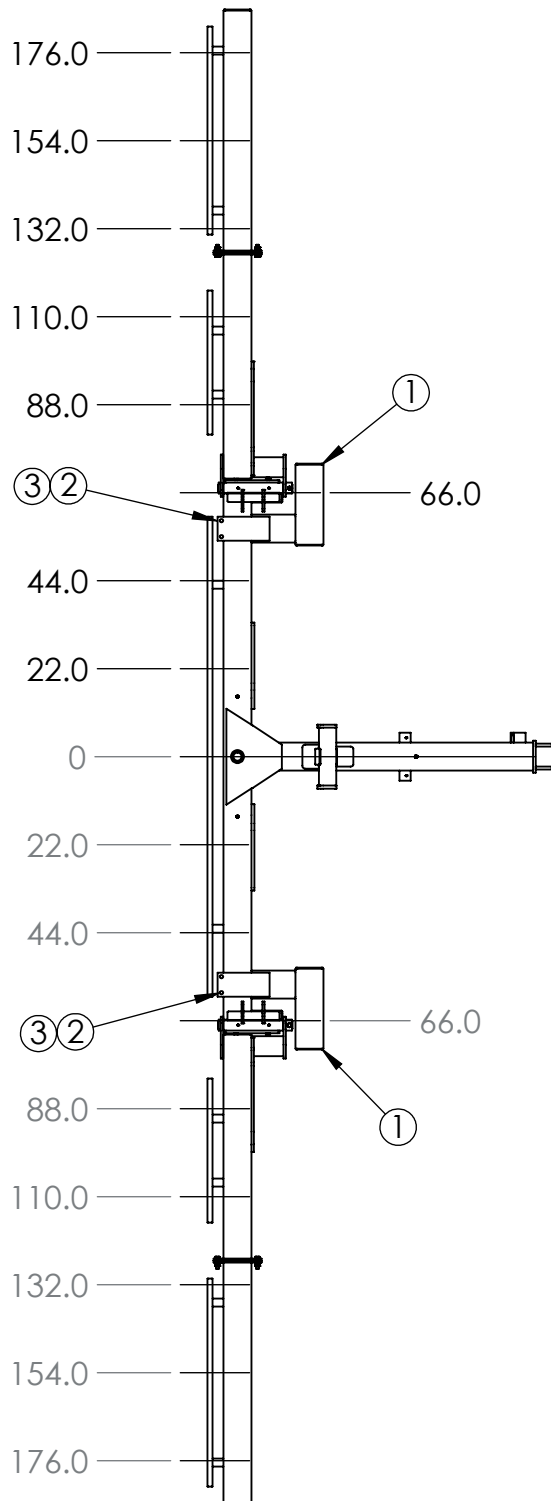


Row Unit Placement (22" and 36" rows)

Instructions:

- For 22" and 36" row spacings, install mainframe offset bar kit 762450091.
- Mark tool bar with marker or paint marker for locations to place row units.

22" Row Spacing



36" Row Spacing

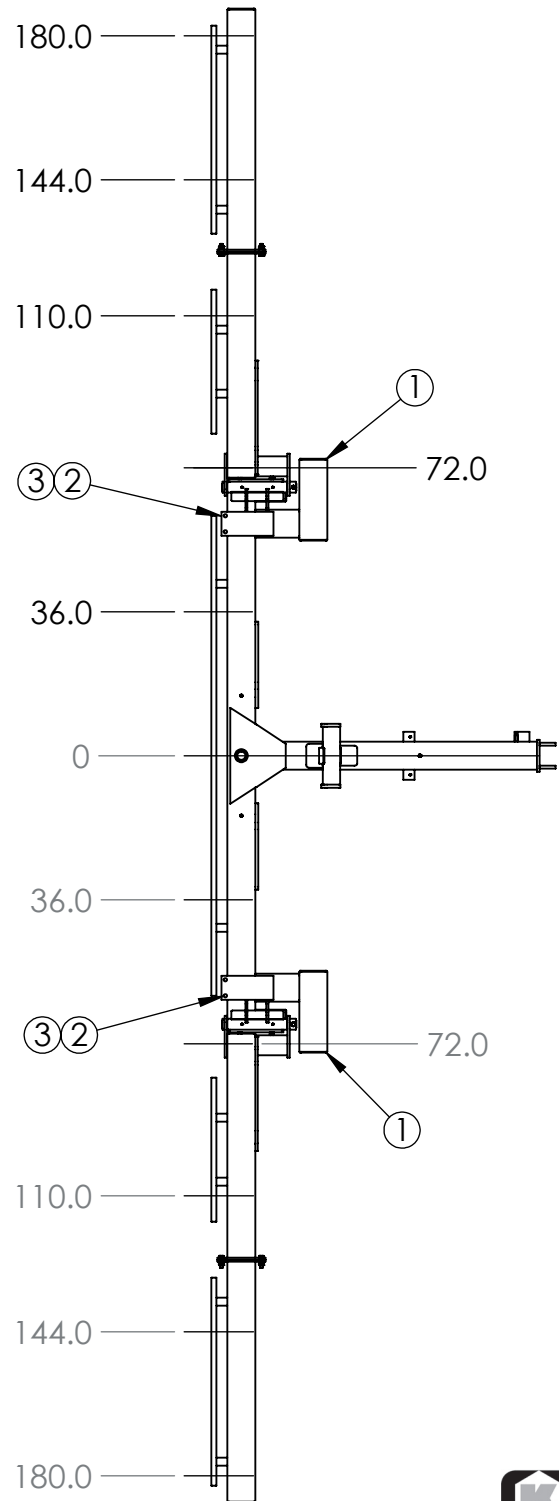
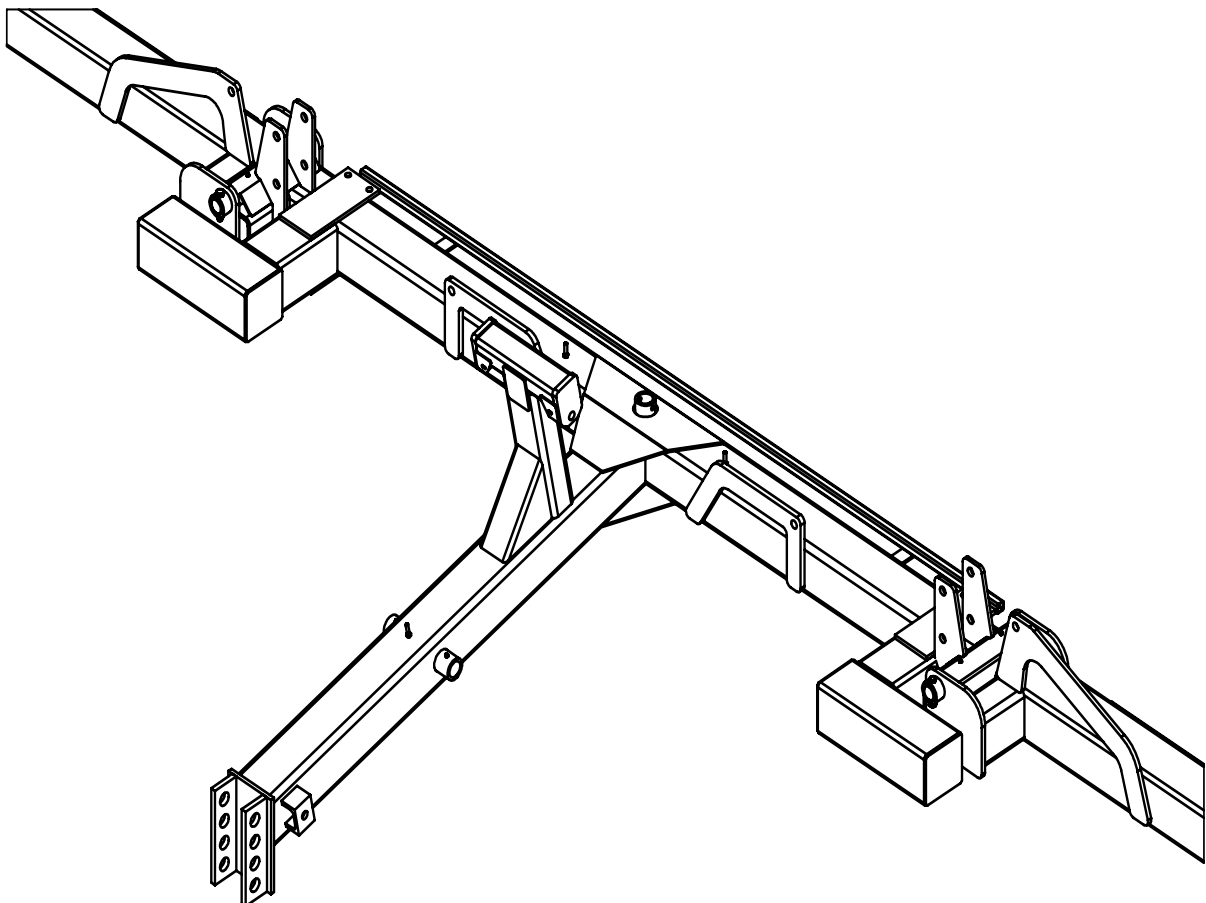


Fig.	Part no.	Qty	Description
*	762450091	1	Kit, Mainframe Offset Bar (Includes Items 1-3)
1	762450060	2	Wdmt, Mainframe Offset Bar
2	600356156	4	Bolt, 3/4"-10 x 9-1/2" Gr. 5
3	600366024	4	Nut, Lock 3/4"-10

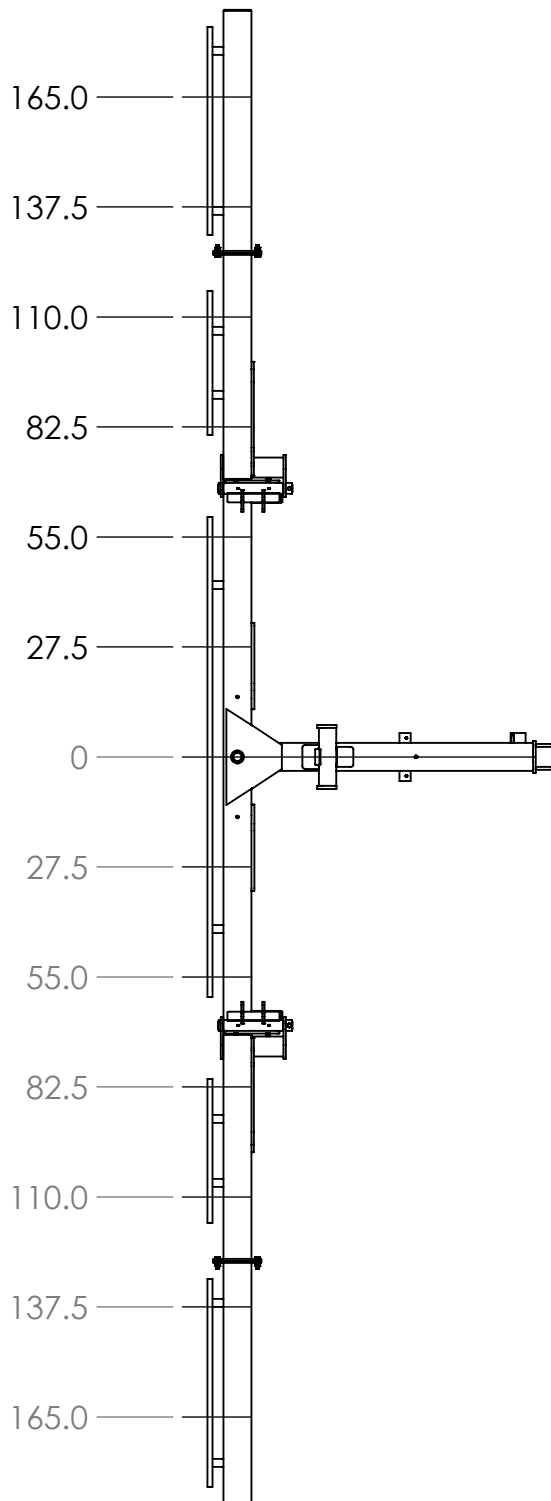


Row Unit Placement (27.5" and 28" rows)

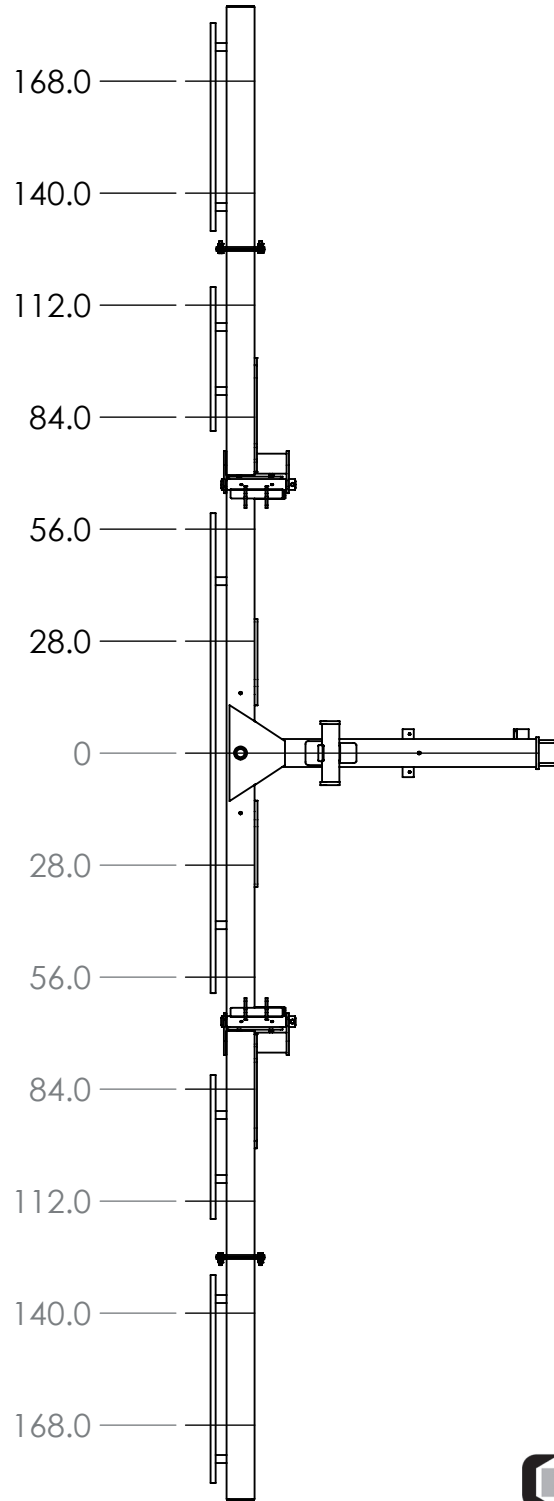
Instructions:

-Mark tool bar with marker or paint marker locations to place row units.

27.5" Row Spacing



28" Row Spacing



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Pump Drive Arm Assembly

Instructions:

-For ground drive pump option, install pump drive arm assembly on left axle facing toward front of machine.

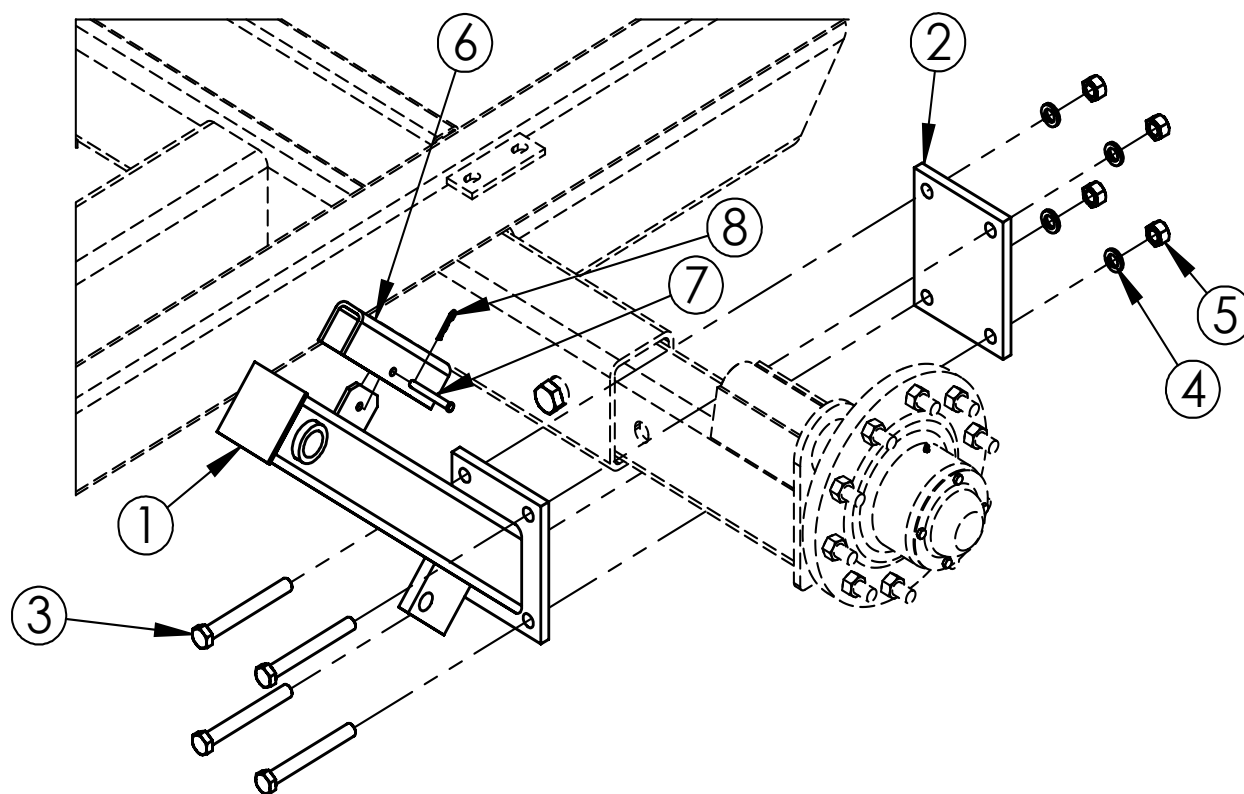


Fig.	Part no.	Qty	Description
1	76802067	1	Arm, Pump Drive
2	762453046	1	Plate, Drive Arm
3	600356150	4	Bolt, Hex 3/4"-10 x 6-1/2" Gr 5
4	600382055	4	Washer, Lock 3/4"
5	600365019	4	Nut, Hex 3/4"-10
6	7640083	1	Lock, Cylinder Safety
7	76101257	1	Pin, Clevis 3/8" x 3"
8	76101258	1	Pin, Hair 3/32" x 1-1/2"

Pump Mount Arm Assembly

Instructions:

-For ground drive pump option, install pump mount arm and cylinder to drive arm assembly.

NOTE: Always install cylinder safety lock when not in use.

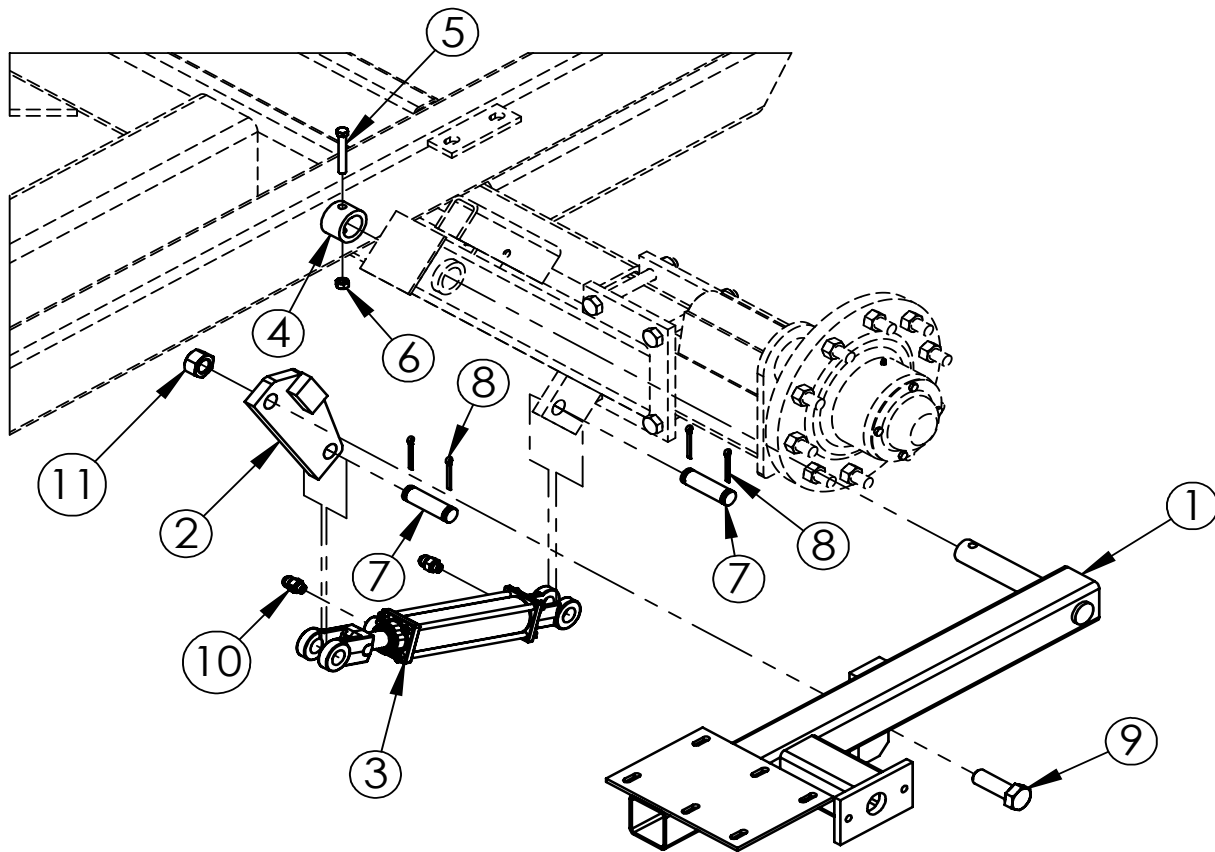
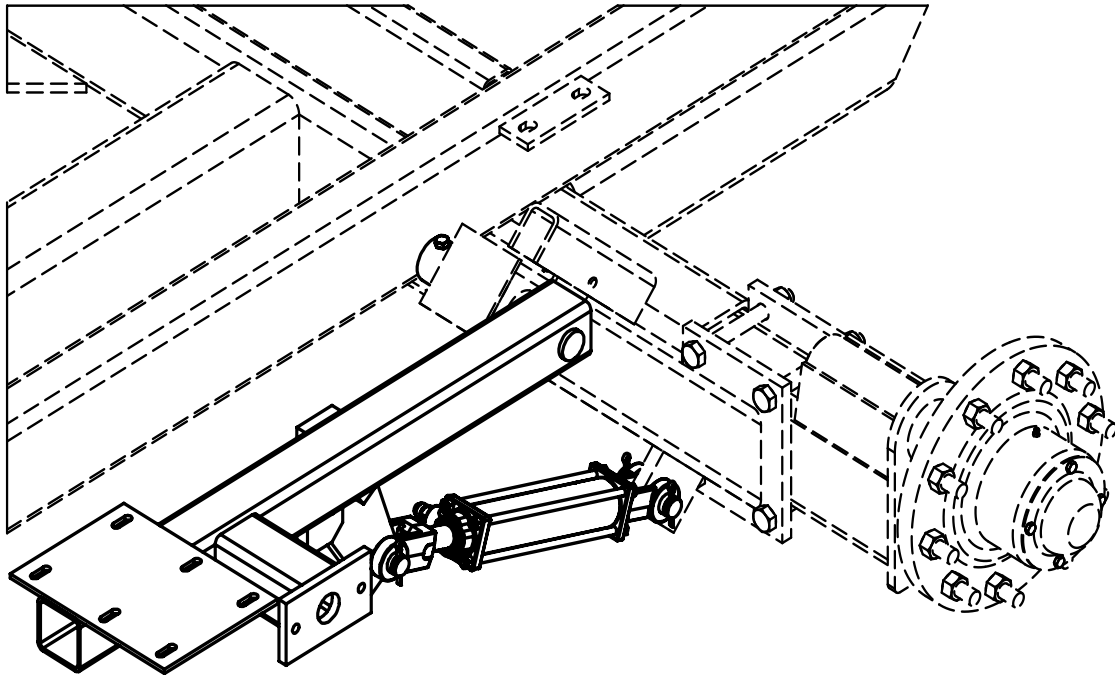


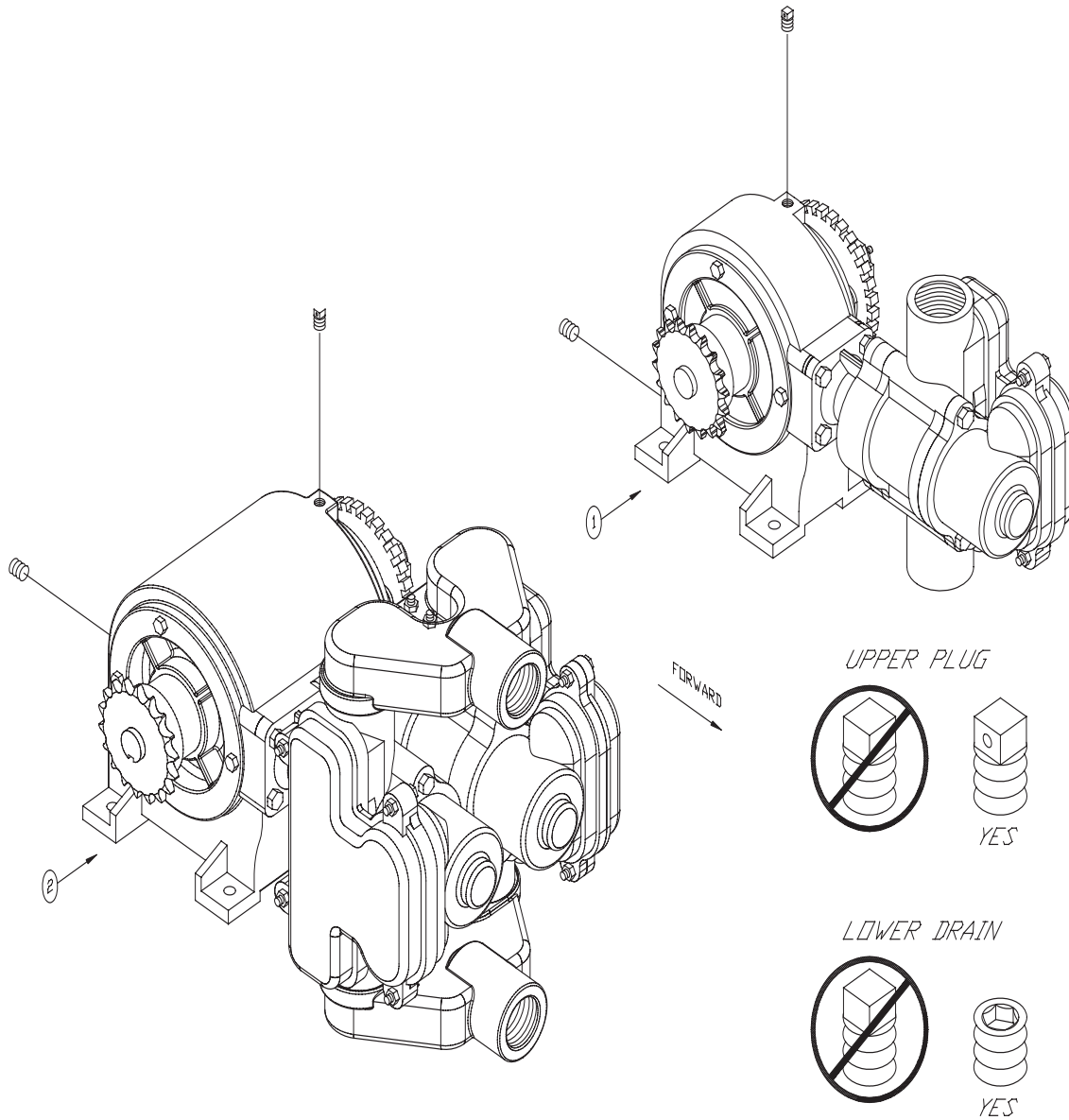
Fig.	Part no.	Qty	Description
1	76802068	1	Arm, Pump Mount
2	76802069	1	Linkage, Cylinder
3	76204001	1	Cylinder, Hydraulic 2" x 8"
4	76602168	1	Collar, 2.25 O.D. x 1.5 I.D. x 1.5"
5	76101142	1	Bolt, Hex 7/16"-14 x 3" Gr 5
6	600366100	1	Nut, Toplock 7/16"-14
7	76602112	2	Pin, Cylinder 1" x 3-3/8"
8	600383058	4	Pin, Cotter 5/32" x 2"
9	600356002	1	Bolt, 1"-8 x 3" Gr 5
10	76201008	2	Adapter, 8MJ-6MB Straight
11	600366032	1	Nut, Toplock 1"-8



Ground Drive Pump

Instructions:

-Replace the Upper most plug with vented plug provided. Replace square head drain plug with allen head drain plug provided.



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Ground Drive Pump Assembly

Instructions:

- For ground drive pump option, install pump and chain idler arm (shown on page 46) on ground drive arm.
- Install wheel assembly and chain sprocket.

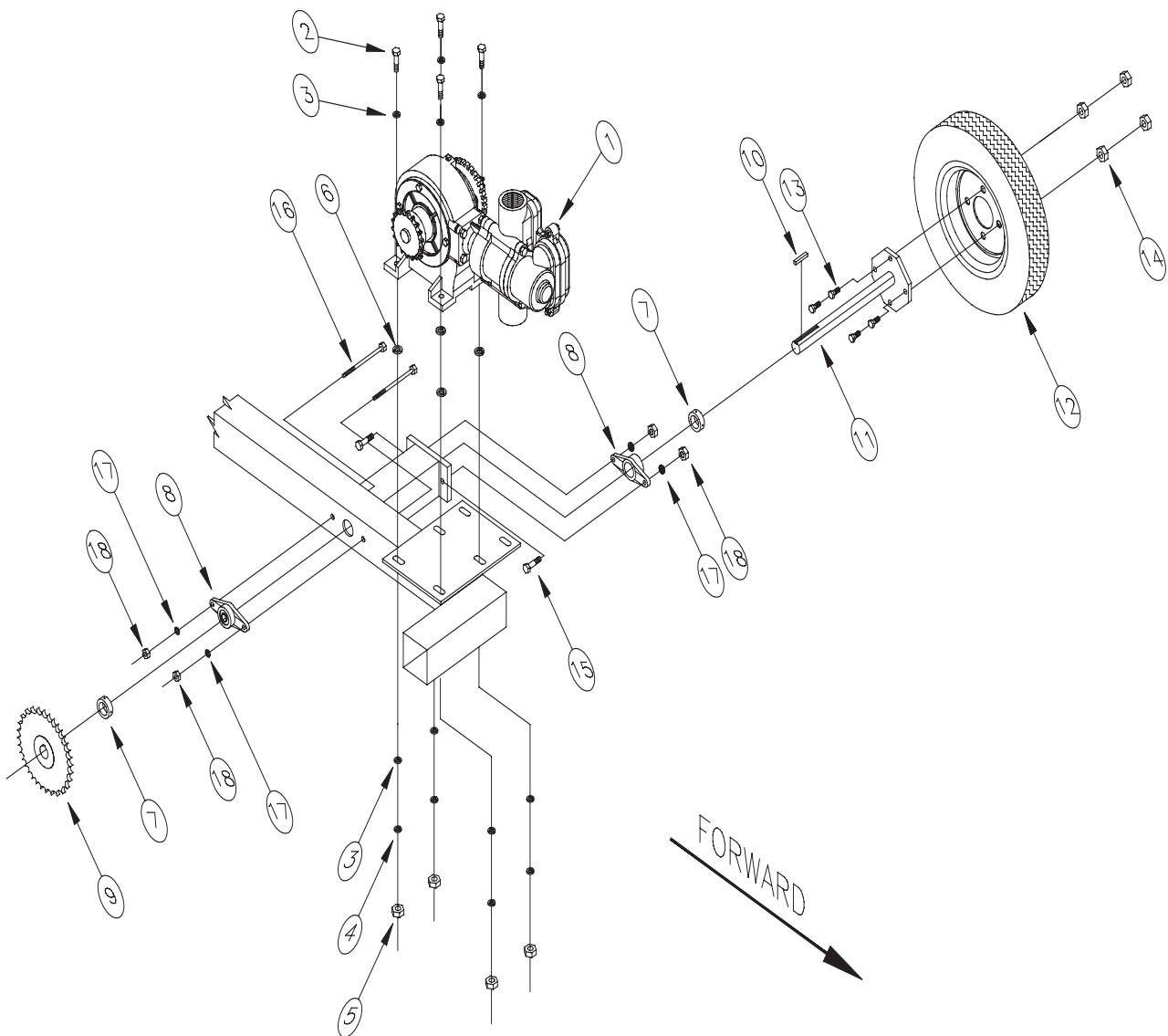


Fig.	Part no.	Qty	Description
1	76750040	1	Pump, John Blue Model NGP-7055 Single Piston
-	76750041	1	Pump, John Blue Model NGP-9055 Double Piston
2	600356115	4	Bolt, 3/8"-16 x 1-1/2" Gr. 5
3	600381006	8	Washer, Flat 3/8"
4	600382051	4	Washer, Lock 3/8"
5	600365008	4	Nut, Hex 3/8"-16
6	-	4	Washer, Rubber Mounting (Included with Pump)
7	76450066	2	Collar, 1-1/4" Bore Lock
8	76450067	2	Holder, Cast 2 Bolt Bearing (1.25" Bearing)
9	768000001	1	Sprocket, 36 x 50 x 1.25"
10	76450010	1	Key, Square .25" x .25" x 1.5"
11	76801779	1	Shaft, Drive 1-1/4" Dia x 18"
12	76301248	1	Assy, Tire and Wheel 16.5 x 6.5 x 8
13	76301193	4	Bolt, Whiz 1/2"-20 x 1-1/4"
14	76301243	4	Nut, Lug 1/2"-20
15	76101138	2	Bolt, Hex 7/16"-14 x 2" Gr. 5
16	76101143	2	Bolt, Hex 7/16"-14 x 4-1/2" Gr.5
17	76101221	4	Washer, Lock 7/16"
18	600365050	4	Nut, Hex 7/16"-14

Chain Idler Arm

Instructions:

- If required, install chain idler mount tab along with pump (shown on previous page).
- If chain idler mount is tab is present on pump arm, install chain idler directly to pump arm
- Install chain roller with hardware shown. Leave loose until chain is installed.

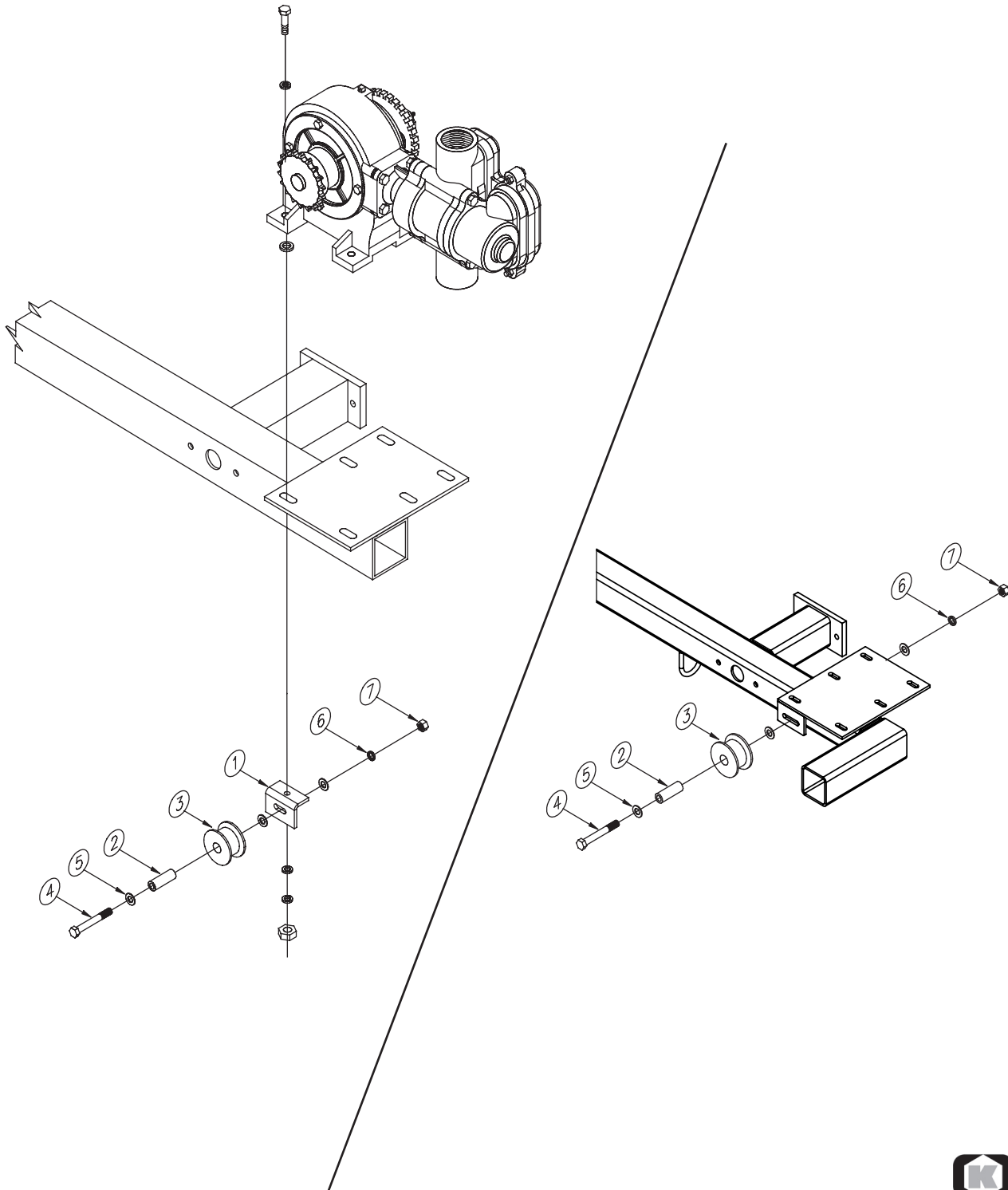


Fig.	Part no.	Qty	Description
1	760000121	1	Tab, Chain Idler Mount
2	76400053	1	Bushing, Roller
3	76400054	1	Roller, Chain
4	600356019	1	Bolt, 3/8"-16 x 3" Gr. 5
5	600381006	3	Washer, Flat 3/8"
6	600382051	1	Washer, Lock 3/8"
7	600365008	1	Nut, Hex 3/8"-16

JB 7055 (Single Piston) and JB 9055 (Double Piston) Pump Drive Chain

Instructions:

- Install chain on pump and sprocket ensuring chain is routing to outside of chain roller.
- Tighten chain by moving chain roller. Tighten hardware on chain roller to ensure chain stays tightened.

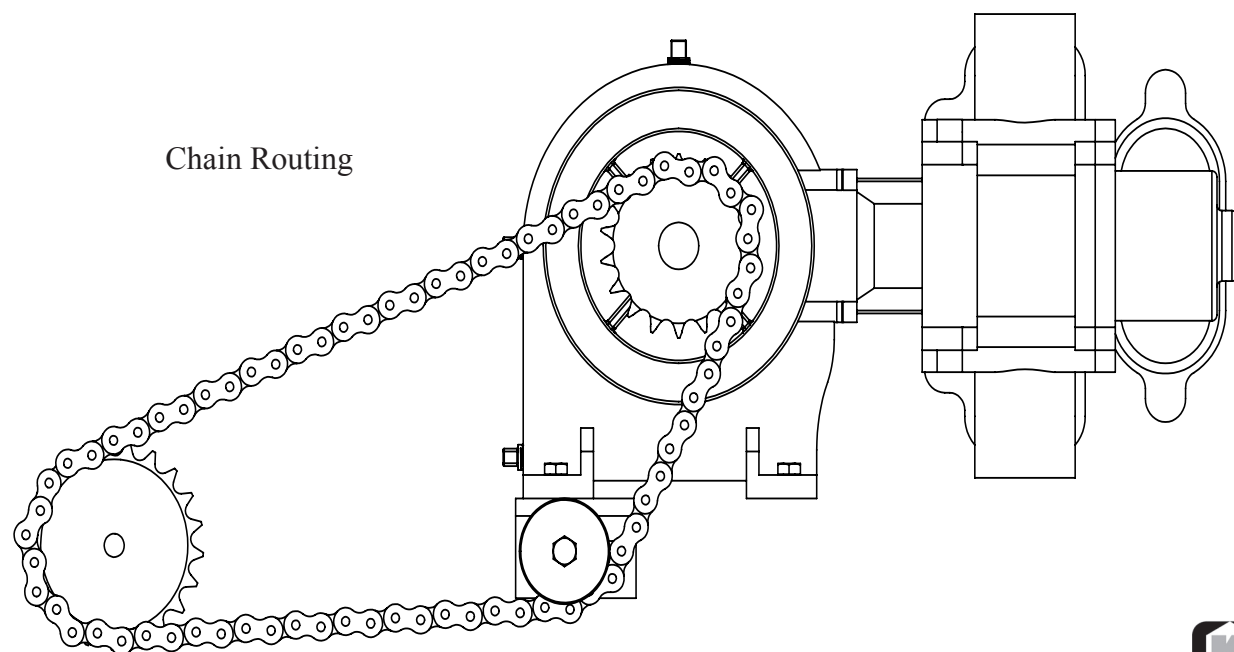
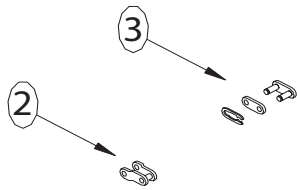
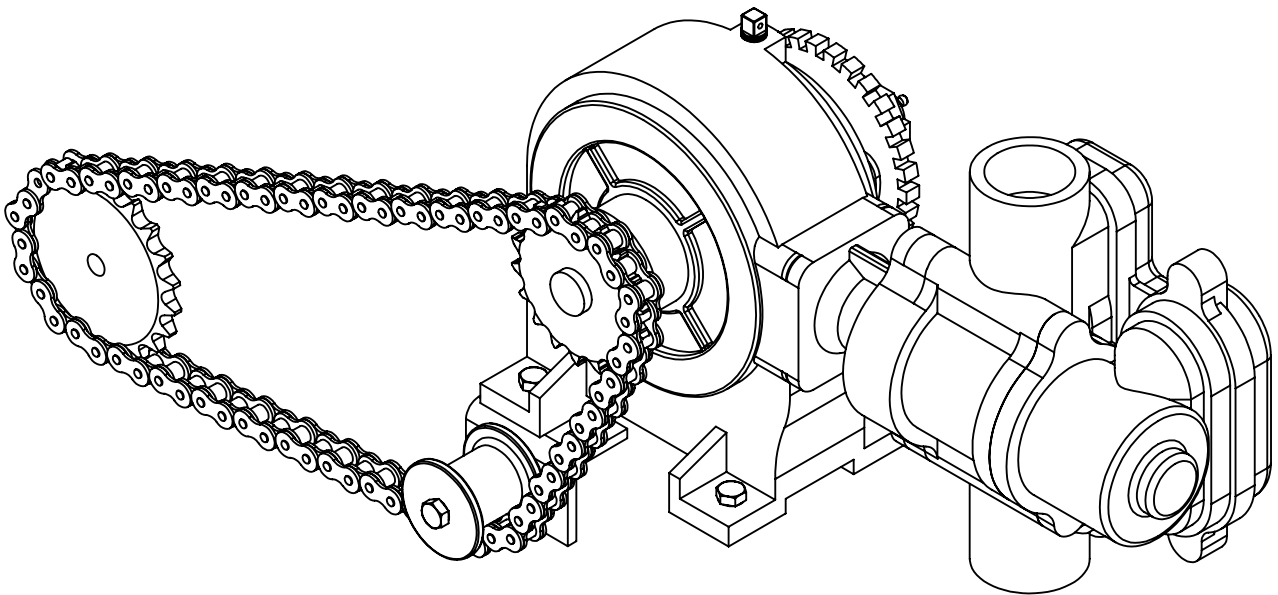


Fig.	Part no.	Qty	Description
1	76101432	1	Chain, No. 50 Stainless Roller Chain- 42-1/4" (requires half link)
2	76202277	1	1/2 Link, No. 50 Stainless Roller Chain
3	7600470479	1	Master Link, No. 50 Stainless Roller Chain



2" Quick Fill Plumbing Assembly

Instructions:

- If using 2" quick fill option, install mount angle bracket to quick fill mouting bracket located underneath tank saddle on right hand side at rear of machine.
- Install plumbing to tank sump and route hose to right rear of machine.
- Use rectorseal no. 5, no. 7, or no. 21 on pipe threads instead of teflon tape.
- Remove top nuts and washers from ball valve and attach mounting bracket on bolts. Reinstall washers and nuts.

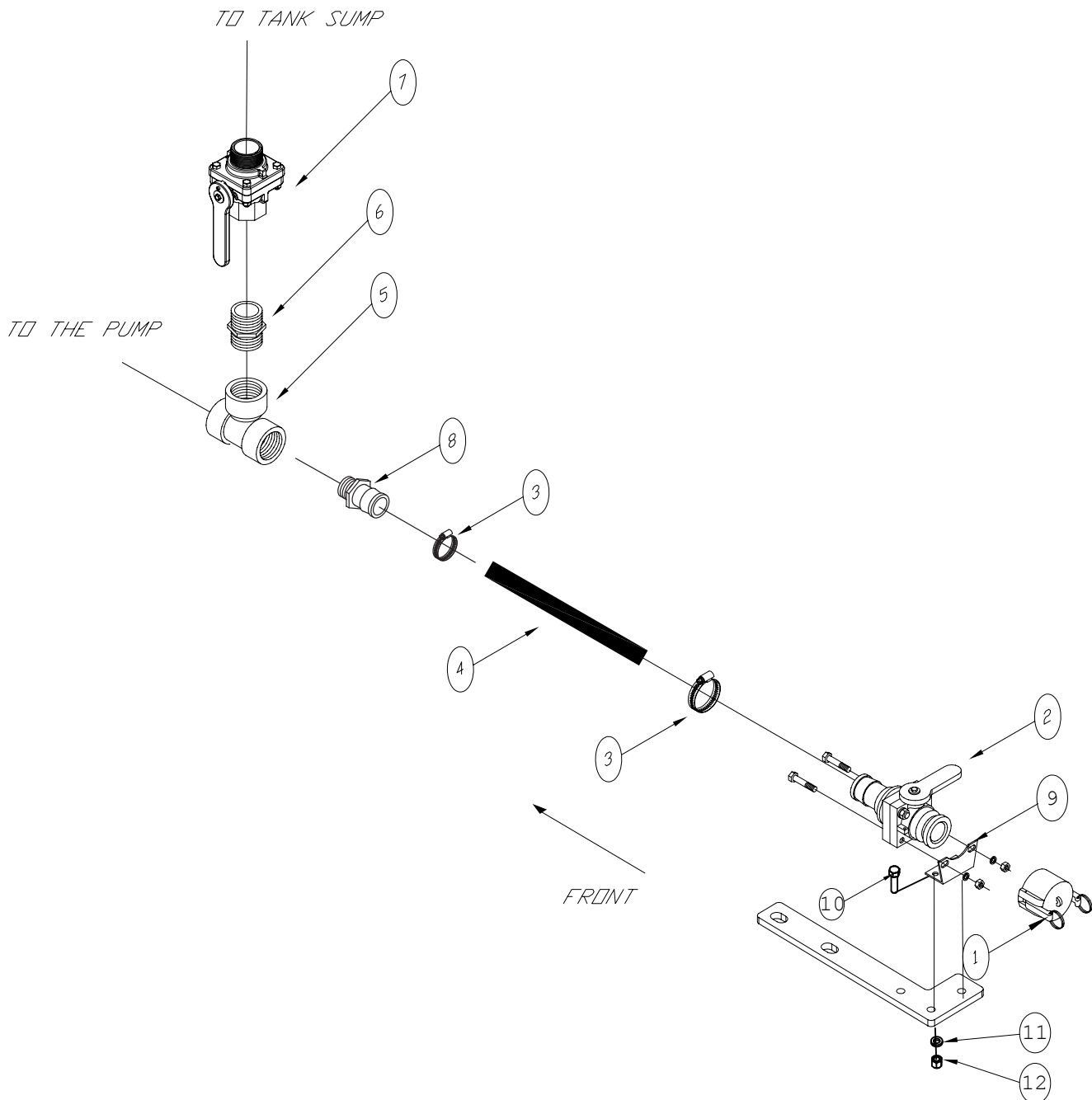


Fig.	Part no.	Qty	Description
1	76700191	1	Cap, 2" Male Adapter
2	76700321	1	Valve, Ball 2" M-M x 2" M-C Flange
3	76700130	2	Clamp, 2" Stainless Hose
4*	76700124	1	Hose, 2" x 108" EPDM
5	76700077	1	Tee, 2" NPT
6	76700038	1	Nipple, 2" NPT Close
7	767805251	1	Valve, Ball 2" MNPT x 2" FNPT
8	76700015	1	Barb, Hose 2" x 2" NPT Straight
9	76700192	1	Bracket, Mount Angle
10	600356020	2	Bolt 3/8"-16 x 1" Gr. 5
11	600382051	2	Washer, Lock 3/8"
12	600365008	2	Nut, Standard 3/8"-16
			*Item 4 is sold by the foot using part no. 76700124

3" Quick Fill Plumbing Assembly

Instructions:

- If using 3" quick fill option, cut 3" diameter hole in rear of tank as shown on next page.
- Install quick fill as shown.
- Install plumbing to tank sump.
- Use rectorseal no. 5, no. 7, or no. 21 on pipe threads instead of teflon tape.

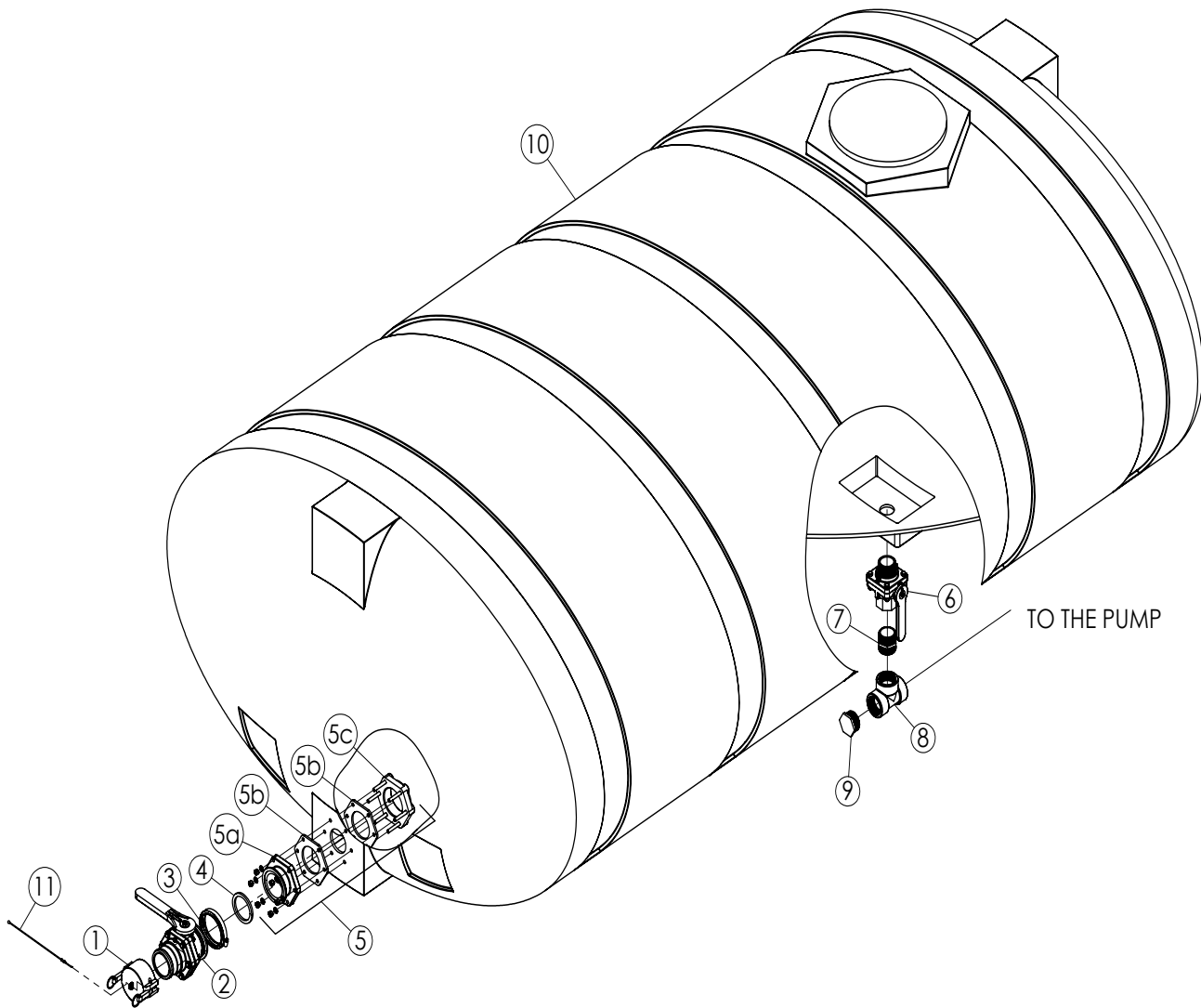
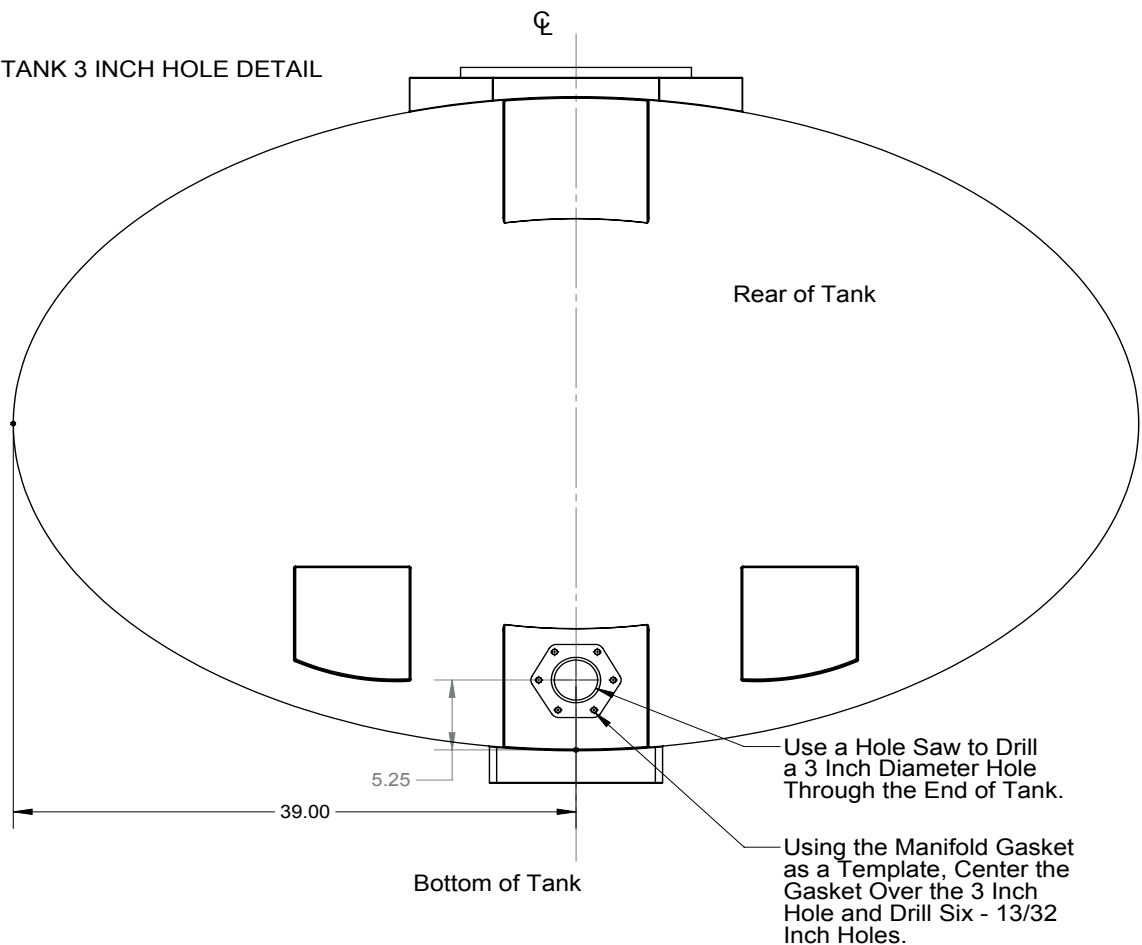


Fig.	Part no.	Qty	Description
1	76700320	1	Cap, 3"
2	76700316	1	Valve, Ball 3" Manifold Flange x 3" Male Adapter
3	76700318	1	Clamp, 3" Worm Screw
4	76700317	1	Gasket, 3"
5	76700319	1	Manifold, 3" Manifold Flange x Female Thread
5a	-	1	Endplate, Manifold
5b	-	2	Gasket, Manifold
5c	-	1	Endplate, Manifold
6	767805251	1	Valve, Ball 2" MNPT x 2" FNPT
7	76700038	1	Nipple, 2" MNPT Close
8	76700077	1	Tee, 2" FNPT
9	76700085	1	Plug, 2" MNPT
10	76750037	1	Tank, 1600 Gallon Poly
11	76450064	1	Lanyard (For Male Adapter Cap)

1600 GALLON TANK 3 INCH HOLE DETAIL



Single Piston Metering Pump Plumbing

Instructions:

- Install 2" to 1-1/2" reducer nipple in tank sump 2" tee fitting.
- Attach filter and elbow hose barb.
- Attach elbow hose barb inlet port on pump, install 1-1/2" inlet hose.
- Attach fittings and gauge to outlet port on pump.
- Attach 1" outlet hose to barb and route to sub-boom on mainframe.

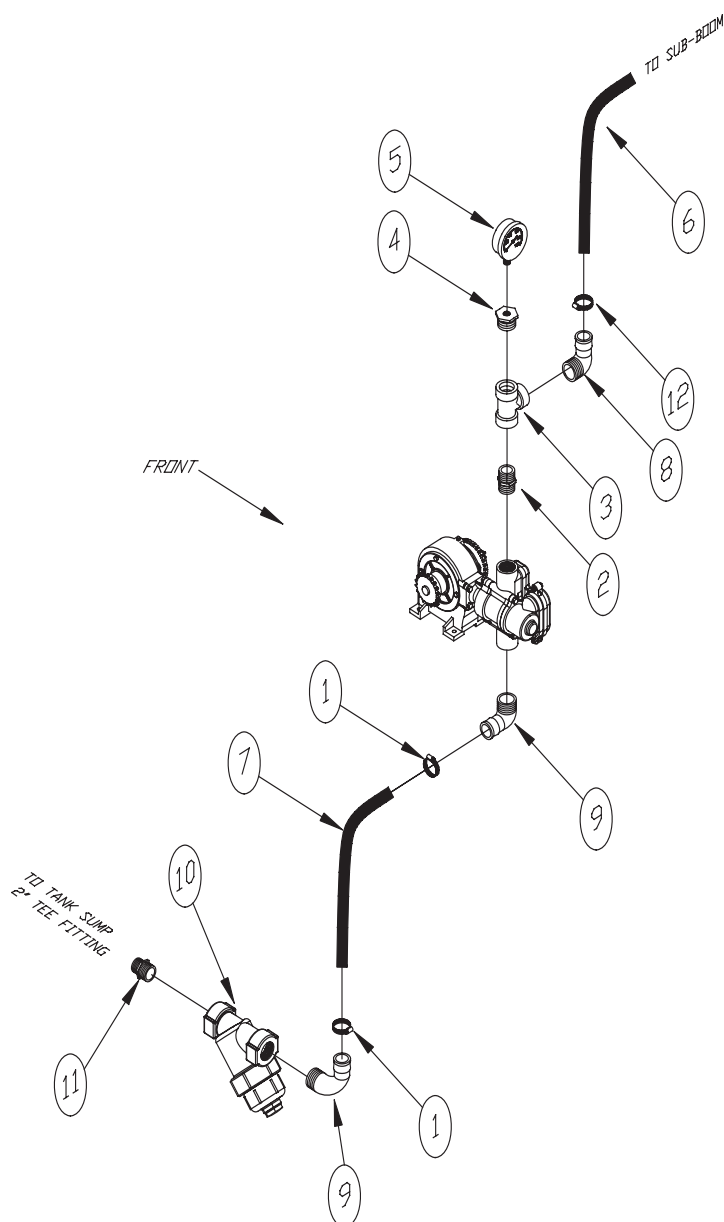


Fig.	Part no.	Qty	Description
1	76700129	2	Clamp, 1-1/2" Stainless Hose
2	76700066	1	Bushing, 1-1/2" x 1" Reducer
3	76700074	1	Tee, 1" NPT
4	76700290	1	Bushing, 1" NPT x 1/4" NPT Reducing
5	76700237	1	Gauge, 4" Glycerin Filled Pressure
6*	76700119	1	Hose, 1" x 48" EPDM
7*	76700121	1	Hose, 1-1/2" x 96" EPDM
8	76700022	1	Hose Barb, 1" NPT x 1"-90 deg
9	76700026	2	Hose Barb, 1-1/2" NPT x 1-1/2" -90 deg
10	76700214	1	Filter, 1-1/2" NPT Banjo
11	76700186	1	Nipple, 2" MNPT x 1-1/2" MNPT Reducer
12	76700128	1	Clamp, 1" Stainless Steel Hose
			*Item 6 is sold by the foot using part no. 76700119
			Item 7 is sold by the foot using part no. 76700121

Double Piston Metering Pump Plumbing

Instructions:

- Install 2" to 1-1/2" reducer nipple in tank sump 2" tee fitting.
- Attach filter and elbow hose barb.
- Attach elbow hose barb inlet port on pump, install 1-1/2" inlet hose.
- Attach fittings and gauge to outlet port on pump.
- Attach 1" outlet hose to barb and route to sub-boom on mainframe.

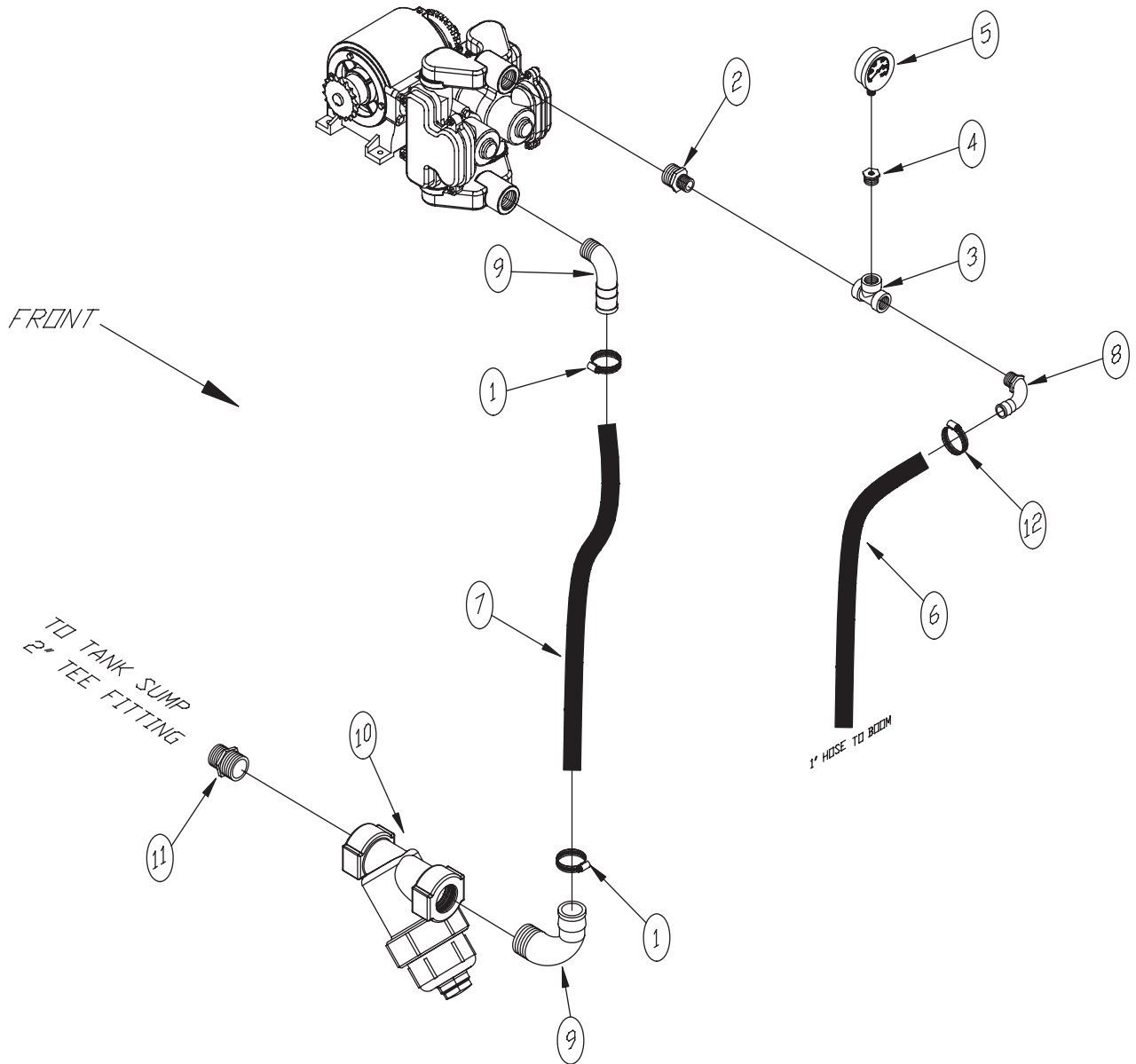


Fig.	Part no.	Qty	Description
1	76700129	2	Clamp, 1-1/2" Stainless Hose
2	76700066	1	Bushing, 1-1/2" x 1" Reducer
3	76700074	1	Tee, 1" NPT
4	76700290	1	Bushing, 1" NPT x 1/4" NPT Reducing
5	76700237	1	Gauge, 4" Glycerin Filled Pressure
6*	76700119	1	Hose, 1" x 48" EPDM
7*	76700121	1	Hose, 1-1/2" x 96" EPDM
8	76700022	1	Hose Barb, 1" NPT x 1"-90 deg
9	76700026	2	Hose Barb, 1-1/2" NPT x 1-1/2" -90 deg
10	76700214	1	Filter, 1-1/2" NPT Banjo
11	76700186	1	Nipple, 2" MNPT x 1-1/2" MNPT Reducer
12	76700128	1	Clamp, 1" Stainless Steel Hose
			*Item 6 is sold by the foot using part no. 76700119
			Item 7 is sold by the foot using part no. 76700121

Hydraulic Pump Mounting Assembly

Instructions:

- If using hydraulic pump option, install hydraulic pump on mount bracket located at front left corner of tank frame
- Install fittings and hoses on hydraulic pump.
- Place hydraulic motor/pump color code decal next to existing hose color code decal at front of machine in visible location.

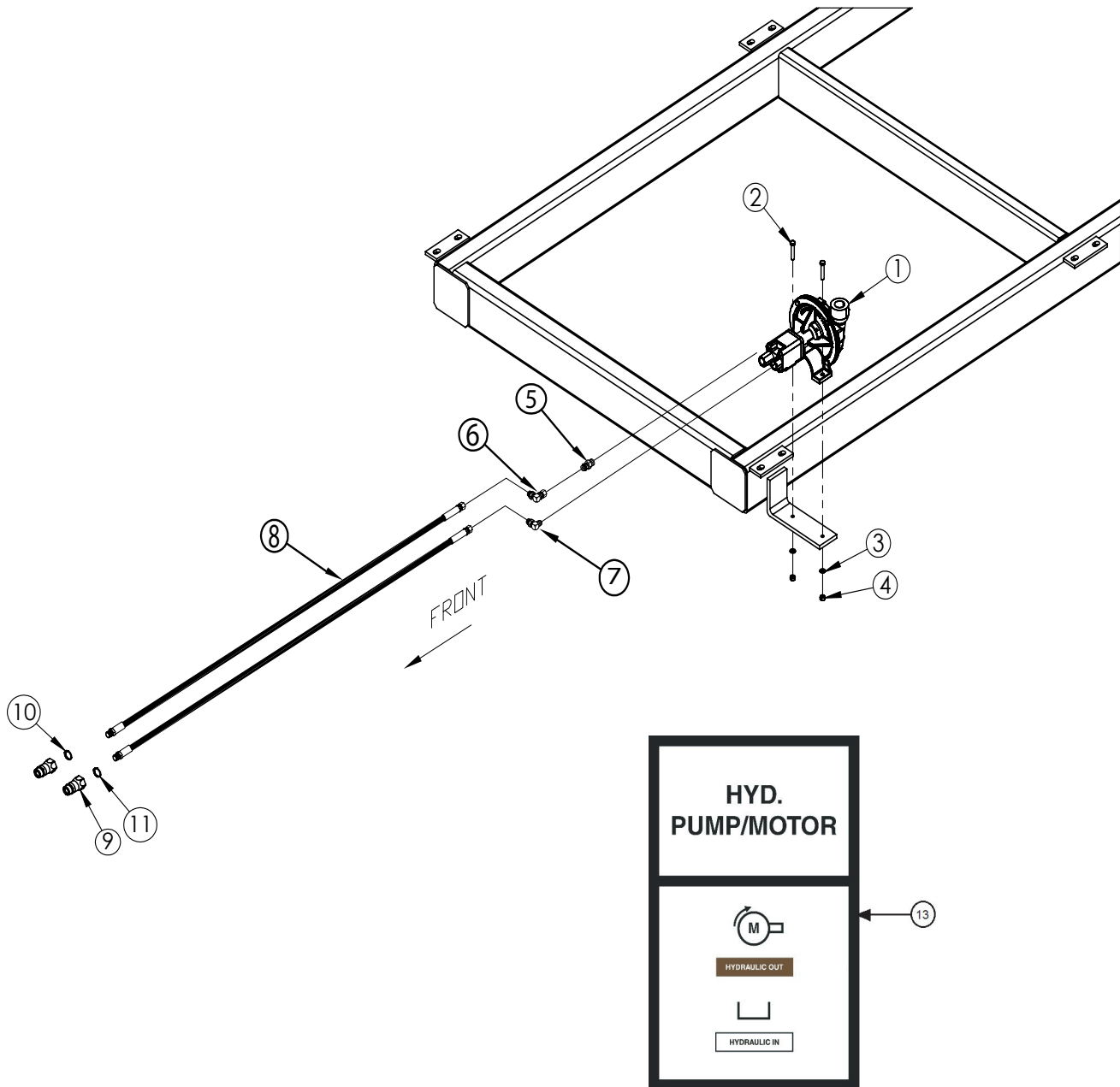


Fig.	Part no.	Qty	Description
1	76750039	1	Pump, Hydraulic
2	600356111	2	Bolt, 3/8"-16 x 2" Gr. 5
3	600382051	2	Washer, Lock 3/8"
4	600365008	2	Nut, Hex 3/8"-16
5	76201057	1	Fitting, 8MJIC x 1/2" MNPT Straight
6	76201059	1	Fitting, 8MJIC x 8FJIC Swivel 90 deg
7	76201034	1	Fitting, 8MJIC x 1/2" MNPT 90 deg
8	762022802	2	Hose, 1/2" x 186" 1/2" MNPT x 8FJIC
9	600470110	2	Coupler, 1/2" Male - 8FNPT
10	7600470543	1	Band, Plastic Spiral 3/4" Brown
11	7600470544	1	Band, Plastic Spiral 3/4" White
12	7600475284	1	Decal, Hyd. Pump/Motor Color Code

Hydraulic Pump Plumbing

Instructions:

-If using the hydraulic pump option, plumb the pump to the tank as shown.

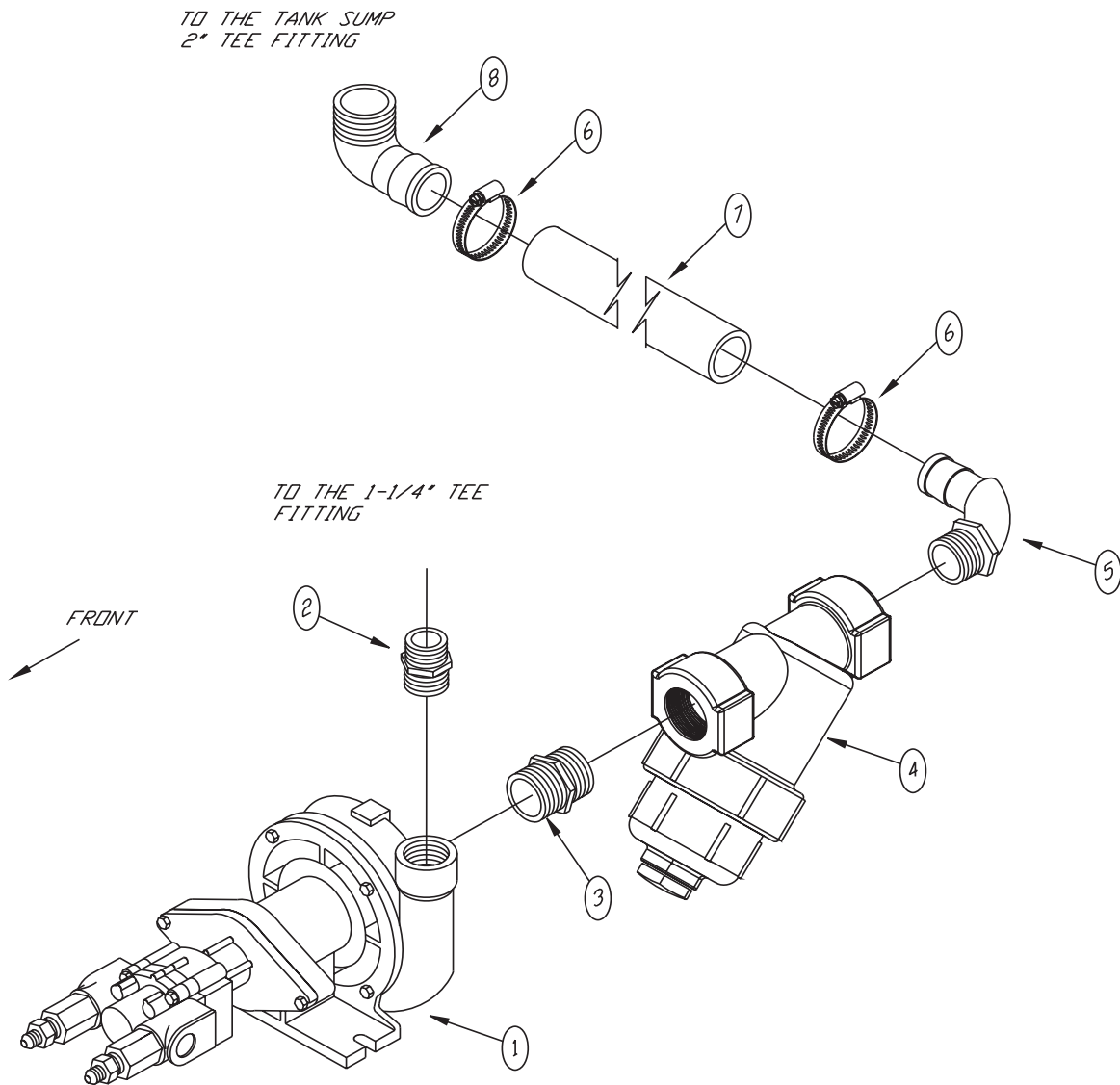


Fig.	Part no.	Qty	Description
1	76750039	1	Pump, Hydraulic
2	76700036	1	Nipple, 1-1/4" NPT Close
3	76700037	1	Nipple, 1-1/2" NPT Close
4	76700214	1	Filter, 1-1/2" NPT Banjo
5	76700026	1	Barb, 1-1/2" NPT x 1-1/2" 90 deg
6	76700130	2	Clamp, 1-1/2" Stainless Steel Hose
7*	767000121	1	Hose, 1-1/2 x 42" EPDM
8	76700186	1	Barb, 2" MNPT x 1/2" 90 deg
			*Item 7 is sold by the foot using part no. 767000121

Ball Valve Bracket

Instructions:

-For hydraulic pump option, install ball valve mount bracket to mainframe.

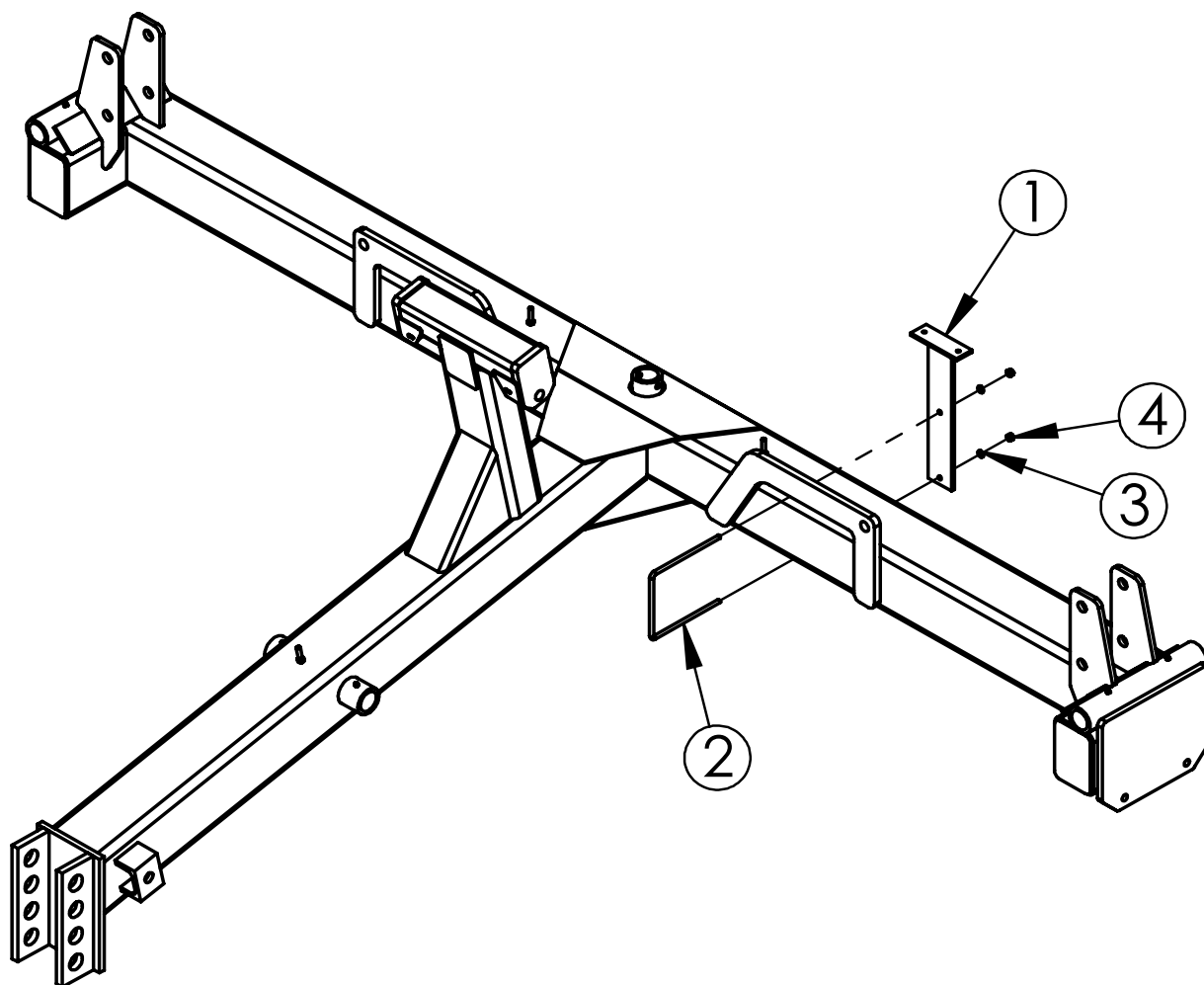
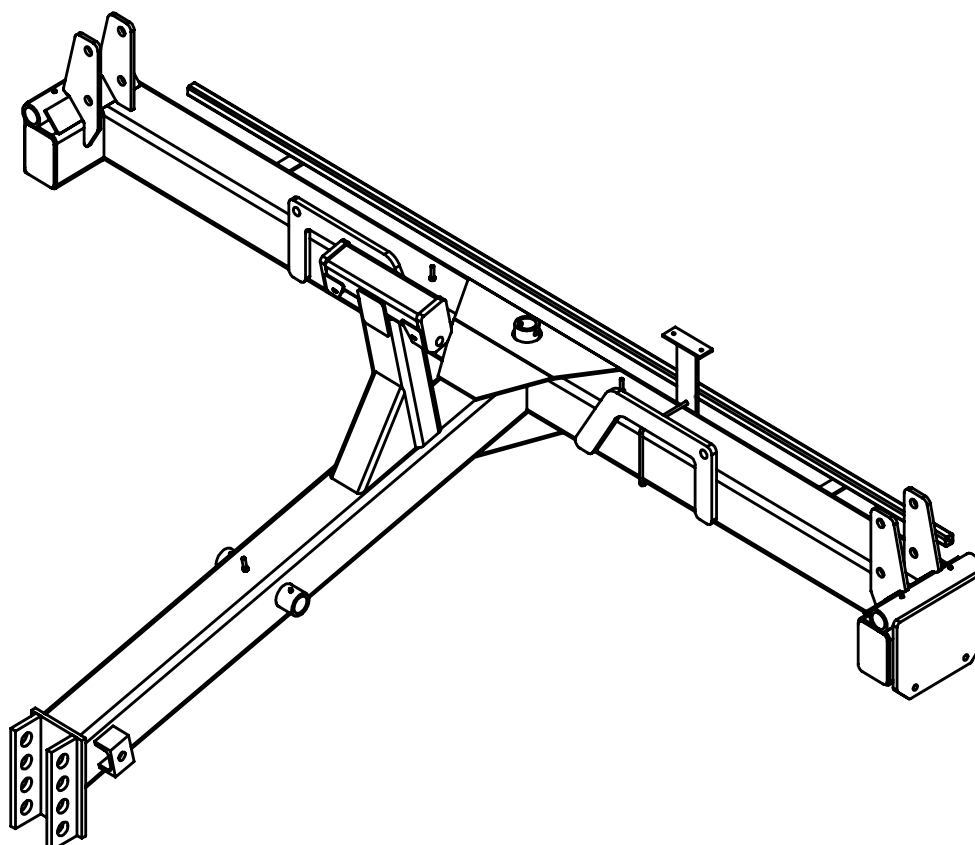


Fig.	Part no.	Qty	Description
1	760000117	1	Bracket, Ball Valve Mounting
2	76101329	1	U-Bolt, 3/8"-16 x 7" x 8.5"
3	600382051	2	Washer, Lock 3/8
4	600365008	2	Nut, Hex 3/8"-16



Two Ball Valve Assembly

Instructions:

- For hydraulic pump option only.
- Install two ball valves on valve mount plate attached to mainframe as shown.

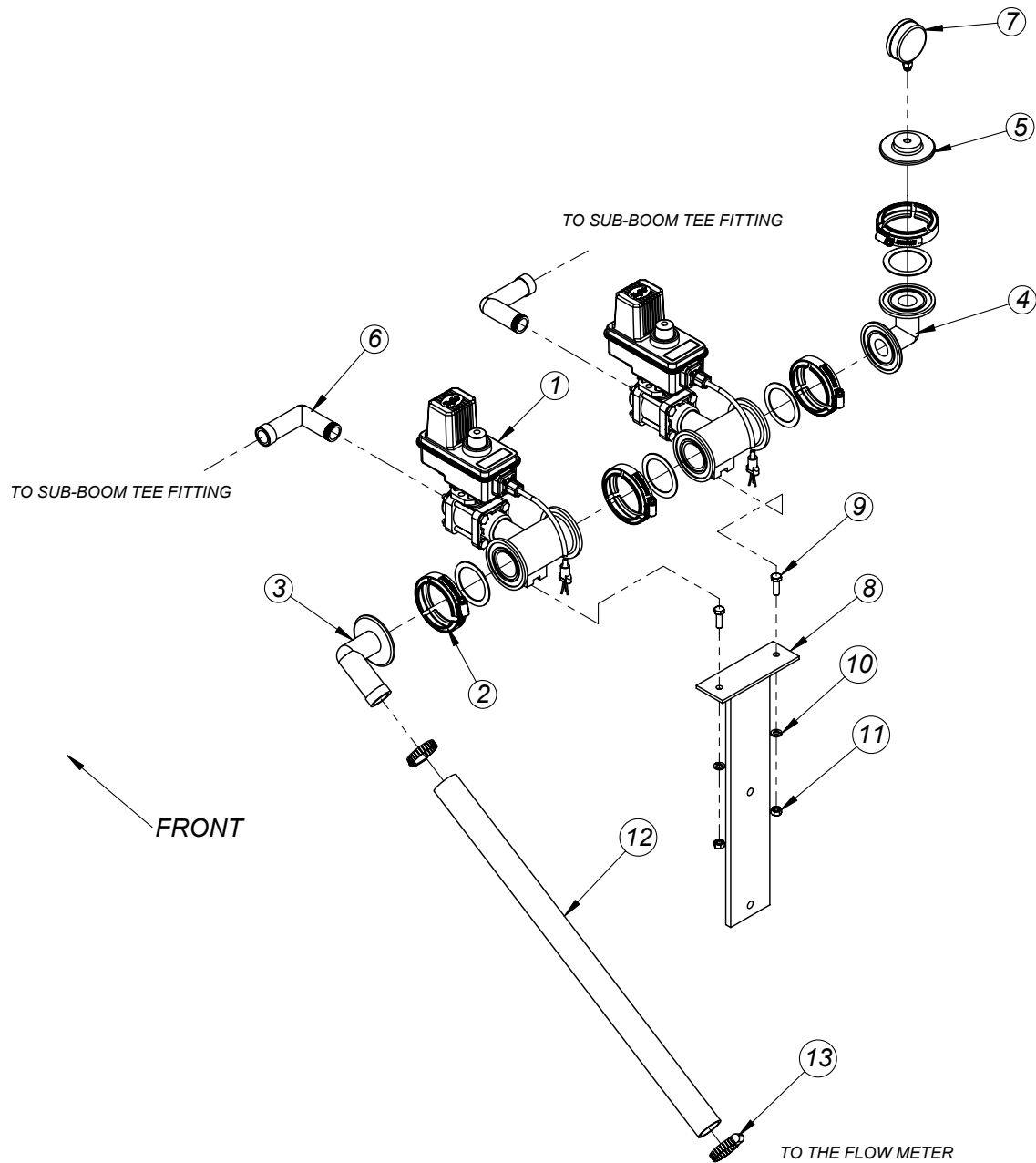


Fig.	Part no.	Qty	Description
1	767800364	1	Valve, Ball (2) -452
**	767800362	**	Valve, Ball (1) -451
2	767002904	4	Clamp, S.S. Flange
3	767002901	1	Flange, 1-1/4" Barb Elbow
4	767002902	1	Elbow, 1-1/4" Flange
5	767002903	1	Adapter, 1-1/4" Flange
6	76700022	2	Elbow, 1" MNPT x 1" Barb 90 deg
7	76700237	1	Gauge, 4" Pressure (0-100 PSI)
8	760000117	1	Mount, Valve
9	76101114	2	Bolt, 5/16"-18 x 1" Gr. 5
10	76101219	2	Washer, Lock 5/16"
11	76101210	2	Nut, Hex 5/16"-18
12*	767001191	1	Hose, 1-1/4"
13	76700128	2	Clamp, 1-1/4" Hose
			*Item 12 sold by the foot using part no. 767001191
			**Unit comes with two ball valves together, to order just one, use 767800362

Regulator Valve Plumbing

Instructions:

- If using hydraulic pump with regulator option, install regulator valve to the top of hydraulic pump.
- Drill 1-5/8" hole in top of tank and install 3/4" tank fitting.
- Install flow meter near ball valves.
- Install plumbing as shown.

NOTE: Items found in bag 762121533

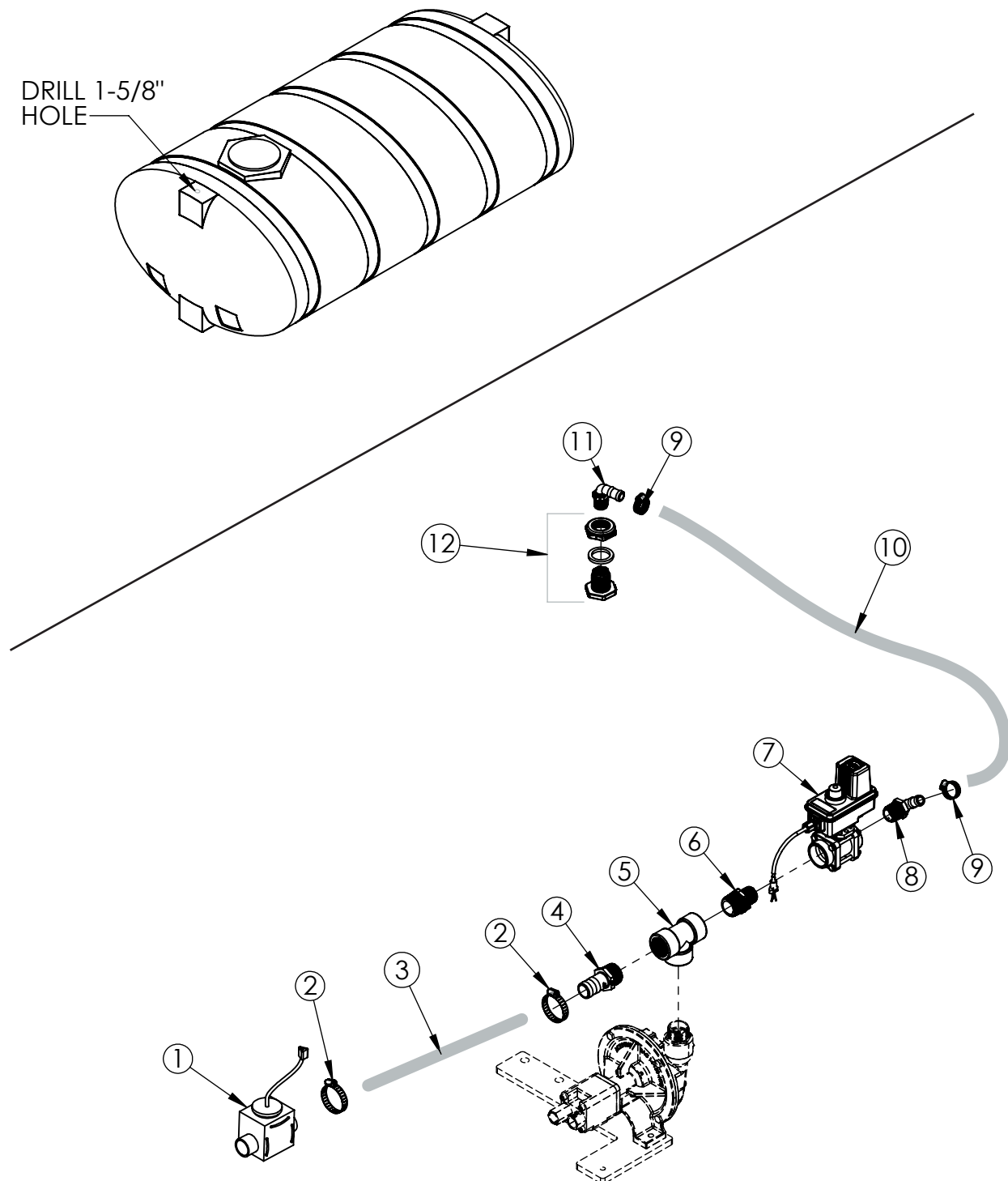


Fig.	Part no.	Qty	Description
1	767800371	1	Meter, 1-1/4" Flow
2	767800128	2	Clamp, 1-1/4" Stainless Steel Hose
3*	767001191	1	Hose, 1-1/4" EPDM
4	76700011	1	Adapter, 1-1/4" NPT x 1-1/4" Barb Straight
5	76700075	1	Tee, 1-1/4" NPT Female
6	76700115	1	Nipple, 1-1/4" x 1" Reducing
7	76780038	1	Valve, Regulator
8	76700021	1	Elbow, 1" NPT x 3/4" Barb 90
9	76700127	2	Clamp, 3/4"-1" Stainless Steel Hose
10*	76700118	1	Hose, 3/4" EPDM
11	76700019	1	Elbow, 3/4" NPT x 3/4" Barb 90
12	76700233	1	Fitting, 3/4" Tank
			* Item 3 is sold by the foot using part no. 767001191
			Item 10 is sold by the foot using part no. 76700118

Speed Sensor Assembly and Wiring Diagram

Instructions:

- For hydraulic pump option only.
- Install speed sensor on left wheel spindle. Place mounting bracket so sensor is approximately 1/8" from wheel hub. Secure bracket with hose clamp around spindle.
- Starting at hitch, run main cable along tongue.
- Attach junction box to ball valve mount bracket.
- Route to ball valves, pressure regulator, flow meter, and speed sensor.

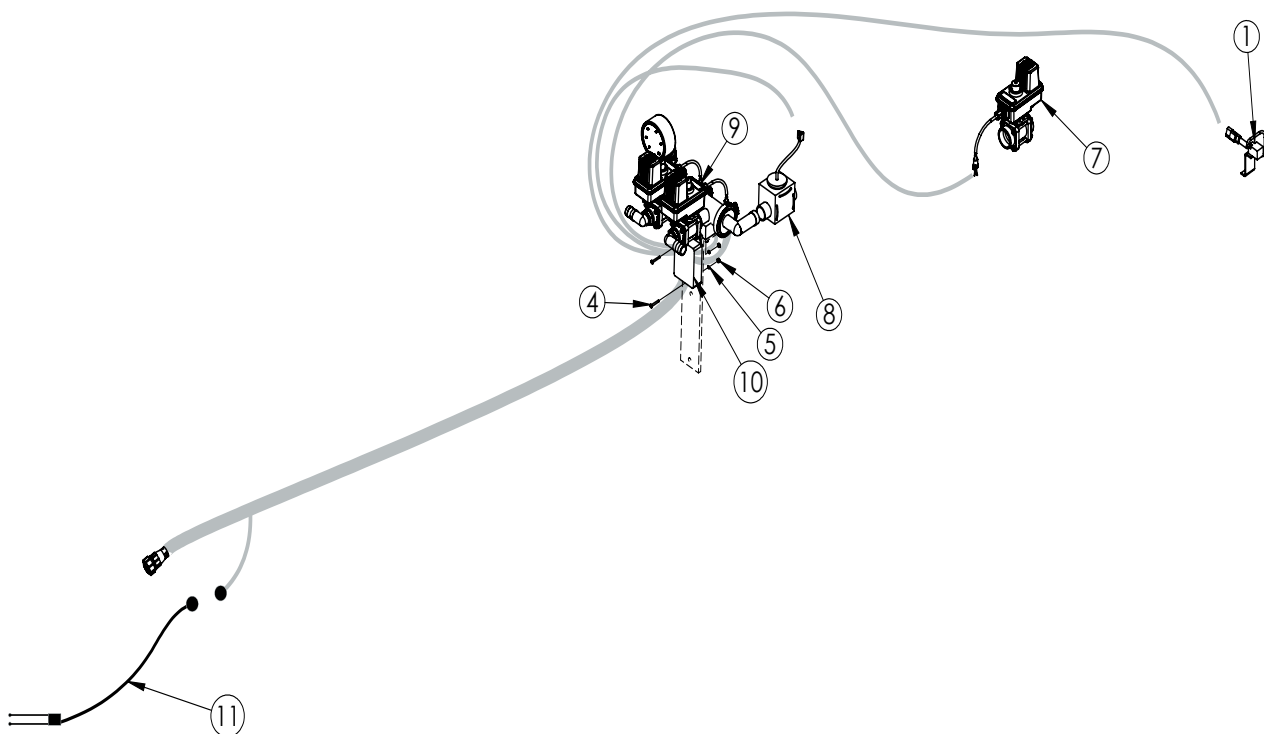
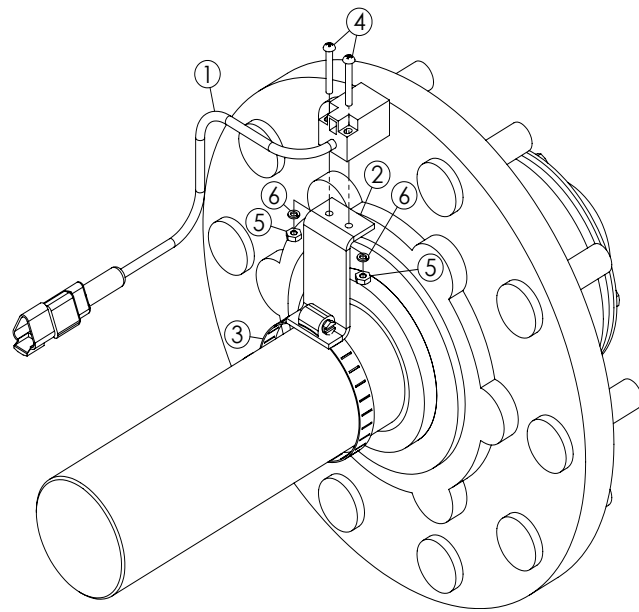


Fig.	Part no.	Qty	Description
1	76780034	1	Sensor, Speed
2	764004632	1	Bracket, Speed Sensor Mounting
3	76700131	1	Clamp, 3" Stainless Steel Hose
4	7600373130	4	Screw, Machine #8 x 1-1/4" UNC
5	600365021	4	Nut, Machine #8
6	7600382103	4	Washer, Lock #8
7	76780038	1	Regulator, 1" Teejet 344
8	767800371	1	Meter, Flow 1-1/4" Teejet 801
9	76700364	1	Valves, Ball (2)-452
10	767800333	1	Cable, Main Harness 26'
	Options		
11	767800041	-	Cable, Power - 12' (Included in TeeJet 844E Monitor Kit)
-	767805255	-	Kit, TeeJet 844E Monitor
-	767805257	-	Kit, Kongkilde ISOBUS Solution
-	767805259	-	Adapter, TeeJet to Raven

LIQUID SIDEDRESS SWIVEL COULTER ASSEMBLY-KNIFE

Instructions:

- Install sidedress coulters row units on toolbar using U-bolts and nuts as shown.
- Adjust knife according to instructions in Operator's Manual. Use shims if necessary to ensure knife is centered with coulter.

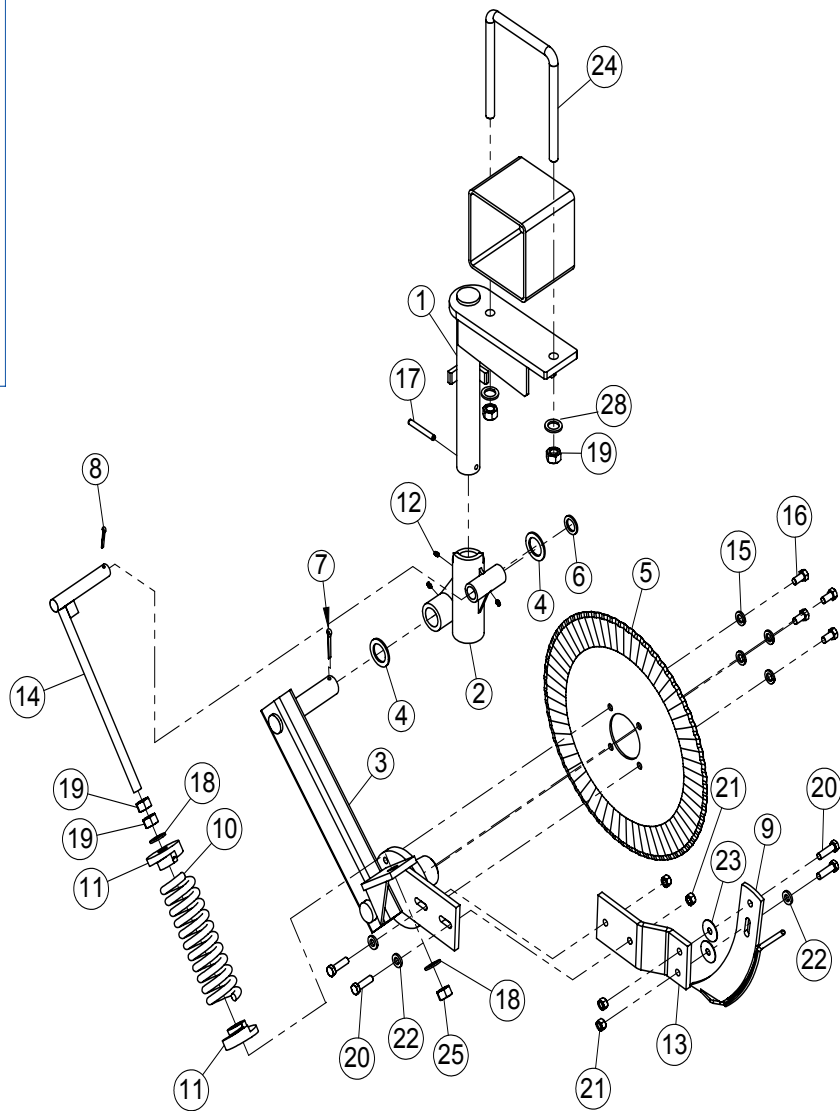
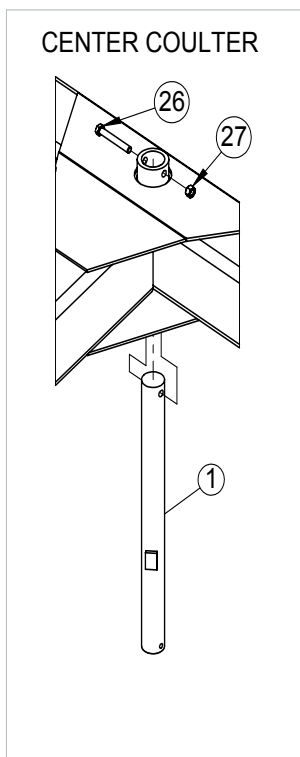
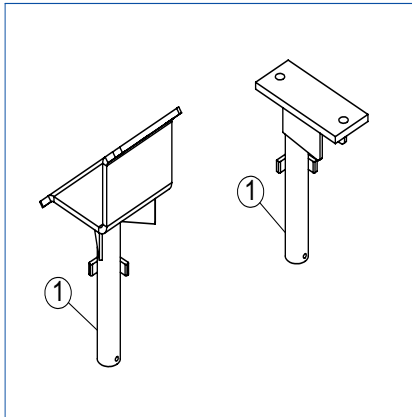
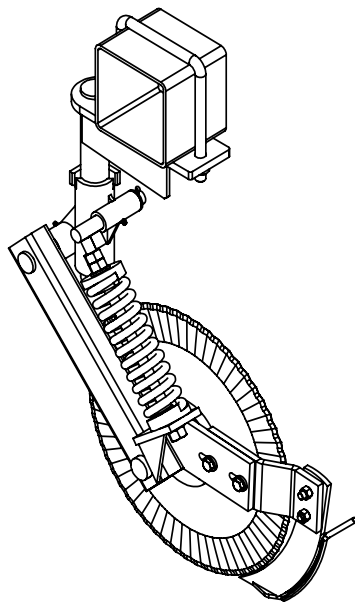


Fig.	Part no.	Qty	Description
1	76801698	1	Weldment, Swivel Coulter Mounting Bracket
-	76802076	-	Mount, Swivel Coulter Offset Mount
-	76801884	-	Weldment, Wheel Clamp
-	76801701	-	Weldment, Center Swivel Coulter Pin
2	76450063	1	Swivel, Liquid Coulter Cast
3	768017881	1	Weldment, Liquid Coulter Arm
4	76101462	2	Washer, Machine 10 Ga. x 1-1/2"
5	76400101	1	Blade, 20" Straight Coulter-Rippled
-	76400097	-	Blade, 20" Straight Coulter-Smooth
6	76101435	1	Washer, Machine 10 Ga x 1"
7	76101265	1	Pin, Cotter 1/4" x 2"
8	76101246	1	Pin, Cotter 3/16" x 1-1/2"
9	76450078	1	Knife, Liquid Sidedress
10	76400095	1	Spring, 10-1/4" Coulter Compression
11	76400096	2	Casting, Spring
12	76101252	3	Zerk, Grease 1/4"-28 Straight
13	760000134	1	Bracket, Knife
14	76801789	1	Weldment, Tension Rod
15	600382053	4	Washer, Lock 1/2"
16	76301193	4	Bolt, 1/2"-20 x 1-1/4" Gr. 5 (UNF)
17	76101425	1	Pin, Roll 3/8" x 3"
18	76101233	2	Washer, Flat 3/4"
19	600365019	4	Nut, Standard 3/4"
20	7600356139	4	Bolt, 1/2"-20 x 1-3/4" Gr. 5 (UNF)
21	7600366050	4	Nut, Stover Lock 1/2" Type C (UNF)
22	7600381055	3	Washer, Flat 1/2" (.172" Thick)
23	7600381015	2	Washer, Flat 1/2" x 1-3/4" OD x .062" Thick
24	76101316	1	U-Bolt, 3/4"-10 x 7" x 9"
25	600366024	1	Nut, Stover Lock 3/4" Type C (UNC)
26	600356137	1	Bolt, 1/2" x 3-1/2" Gr. 5
27	600366030	1	Nut, Stover Lock 1/2" Type C (UNC)
28	600382055	2	Washer, Lock 3/4"



LIQUID SIDEDRESS SWIVEL COULTER ASSEMBLY-INJECTOR

Instructions:

- Install sidedress coulters row units on toolbar using U-bolts and nuts as shown.
- Adjust injector according to instructions in Operator's Manual. Use shims if necessary to ensure injector is centered with coulters.

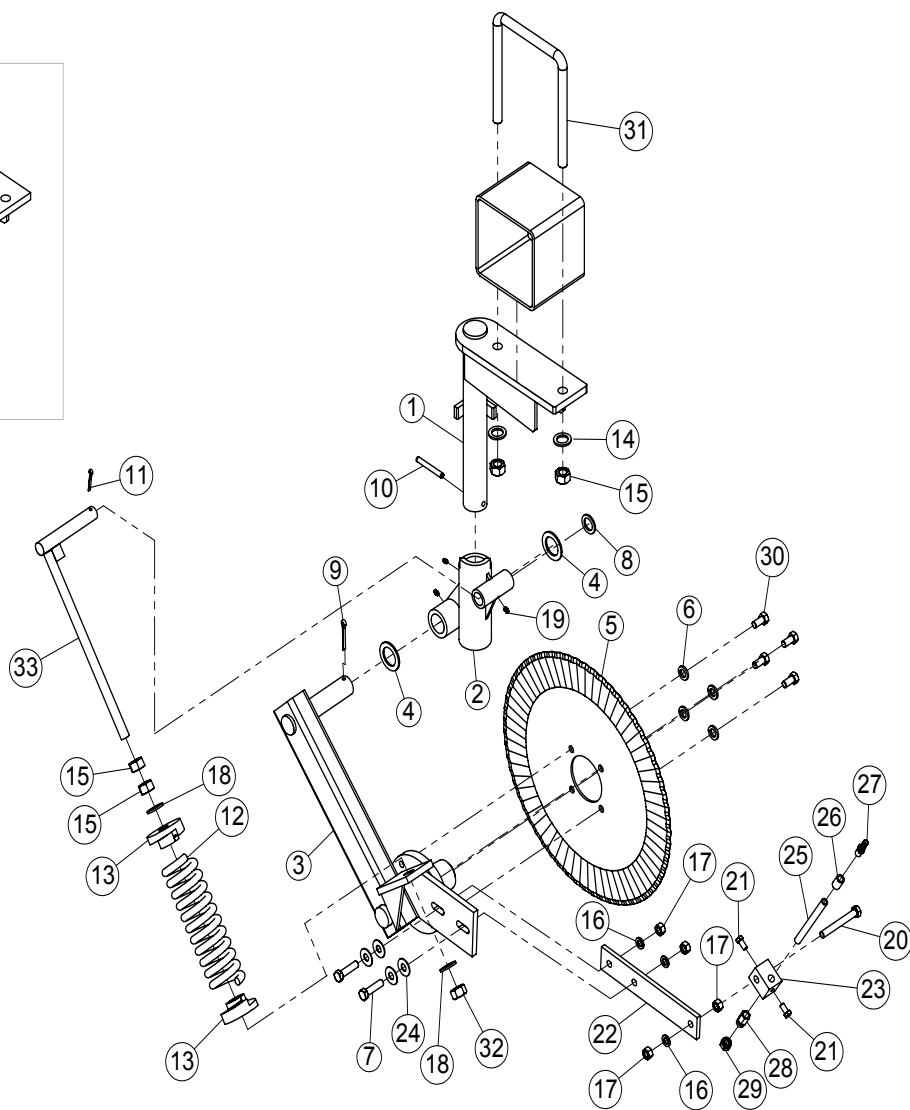
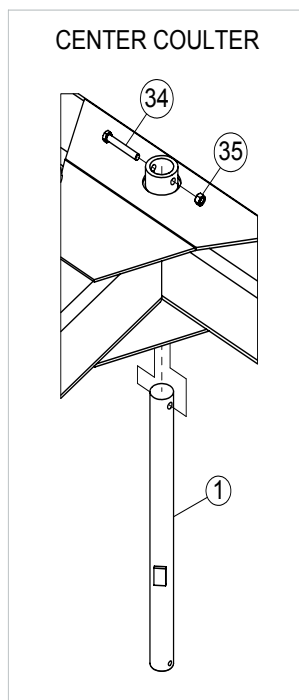
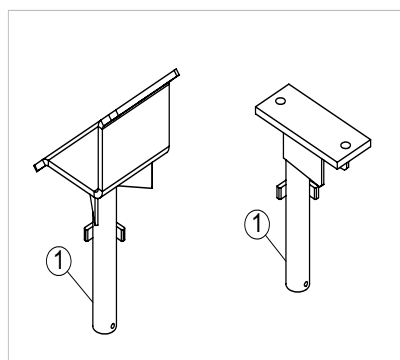
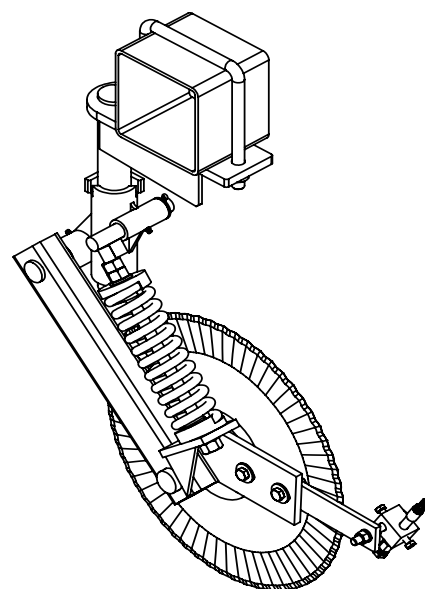


Fig.	Part no.	Qty	Description
1	76801698	1	Weldment, Swivel Coulter Mounting Bracket
-	76802076	-	Mount, Swivel Coulter Offset Mount
-	76801884	-	Weldment, Wheel Clamp
-	76801701	-	Weldment, Center Swivel Coulter Pin
2	76450063	1	Swivel, Liquid Coulter Cast
3	768017881	1	Weldment, Liquid Coulter Arm
4	76101462	2	Washer, Machine 10 Ga. x 1-1/2"
5	76400101	1	Blade, 20" Straight Coulter-Rippled
-	76400097	-	Blade, 20" Straight Coulter-Smooth
6	600382053	4	Washer, Lock 1/2"
7	76101149SS	2	Bolt, 1/2"-13 x 2" Stainless Steel
8	76101435	1	Washer, Machine 10 Ga x 1"
9	76101265	1	Pin, Cotter 1/4" x 2"
10	76101425	1	Pin, Roll 3/8" x 3"
11	76101246	1	Pin, Cotter 3/16" x 1-1/2"
12	76400095	1	Spring, 10-1/4" Coulter Compression
13	76400096	2	Casting, Spring
14	600382055	2	Washer, Lock 3/4"-10
15	600365019	4	Nut, Standard 3/4"-10
16	76101222SS	3	Washer, Lock 1/2" Stainless Steel
17	76101213SS	4	Nut, Hex 1/2"-13 Stainless Steel
18	76101233	2	Washer, Flat 3/4"
19	76101252	3	Zerk, Grease 1/4"-28 Straight
20	76101153SS	1	Bolt, 1/2"-13 x 4" Stainless Steel
21	76101281SS	2	Bolt, 3/8"-16 x 3/4" Stainless Steel
22	760000136	1	Arm, Coulter Injection
23	76400103	1	Block, Injection Tube Mounting
24	76101231SS	4	Washer, Flat 1/2" Stainless Steel
25	76700279	1	Nipple, 1/4 NPT x 6 Stainless Steel
26	76700307	1	Bushing, 1/4" NPT x 6 Stainless Steel
27	76700277	1	Barb, Hose 1/4" NPT x 3/8"
28	76700289	1	Fitting, Teejet Body
29	76700288	1	Cap, Teejet S.S. -CP1325-SS
30	76301193	4	Bolt, 1/2"-20 x 1-1/4" Gr. 5 (UNF)
31	76101316	1	U-Bolt, 3/4"-10 x 7" x 9"
32	600366024	1	Nut, Stover Lock 3/4" Type C (UNC)
33	76801789	1	Weldment, Tension Rod
34	600356137	1	Bolt, 1/2" x 3-1/2" Gr. 5
35	600366030	1	Nut, Stover Lock 1/2" Type C (UNC)



Nozzle Assembly

Instructions:

- Assemble nozzles as shown below. Note: Hose barb is to be placed into the o ring.
- Elbow nozzles located in bag included with center coupler.
- Elbow nozzles used on outside rows, tee nozzles used on all other rows.

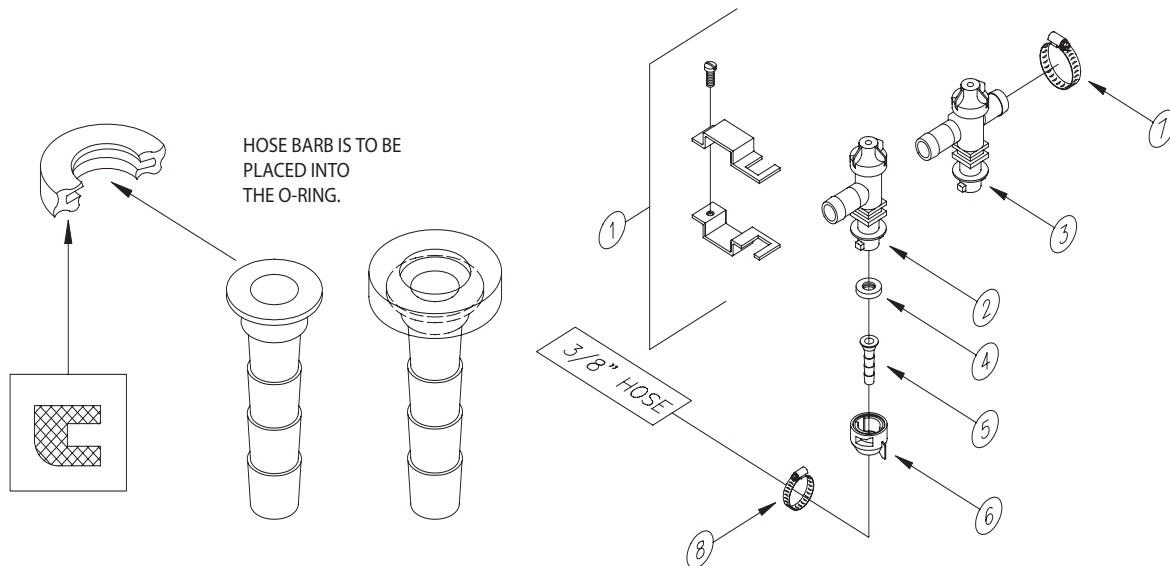
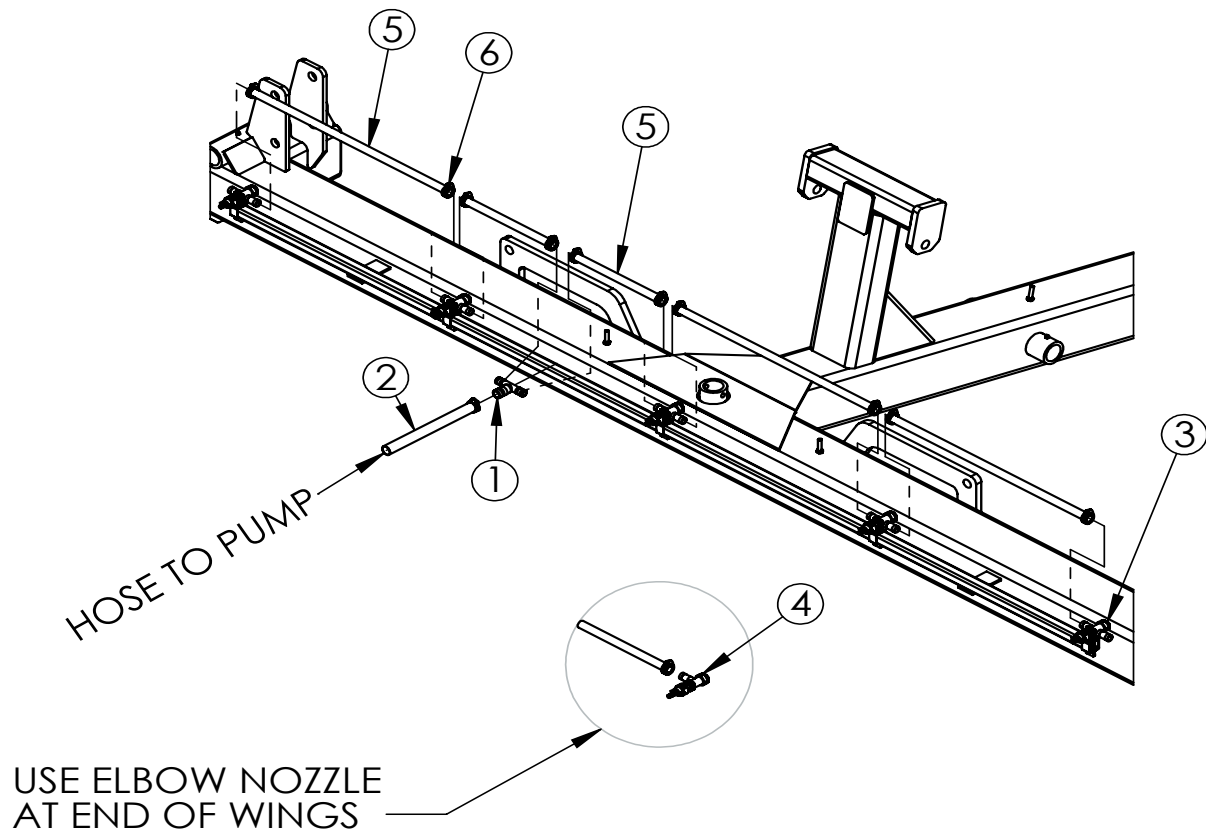


Fig.	Part no.	Qty	Description
1	76700203	1	Clamp, 1-1/4" Square Nozzle
2	76700199*	1	Elbow, 3/4" Diaphragm Nozzle
3	76700201*	1	Tee, 3/4" Diaphragm Nozzle
4	76700305	1	O-Ring, Split Hose Barb
5	76700302	1	Barb, Hose-1/4" for nozzle cap
6	76700303	1	Cap, Nozzle - Blue
7	76700127	1 or 2**	Clamp, Hose- 3/4" Stainless
8	76700126	1	Clamp, Hose -3/8-1/2" Stainless
			*Elbow used on outside rows, Tee used on all other rows.
			**One clamp for elbow, two clamps for tee fitting
			Note: Quantities listed are for one nozzle only.

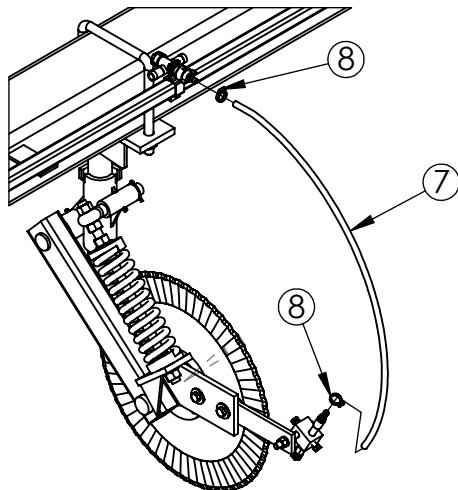
PLUMBING ROW UNITS

Instructions:

- Install nozzles on sub-boom as close to row units as possible. Install 1" tee fitting on hose from pump and place between center coulters and first coulters to left of center. Use elbow fittings for coulters at each end of bar.
- Cut 3/4" EPDM hoses to length to fit between fittings. Note: Make hoses longer at hinge to allow for folding of bar.
- Cut 3/8" EPDM hoses to length ensuring enough hose to allow coulters to swivel.
- Install hoses and secure with hose clamps.



INJECTOR



KNIFE

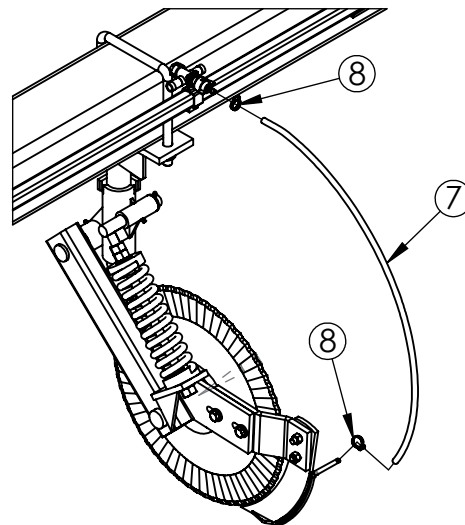


Fig.	Part no.	Qty	Description
1	76700197	1	Barb, 1 x 3/4 x 3/4 Tee
2	76700119*	*	Hose, 1" EPDM
3	767002011	**	Assy, 3/4" Diaphragm Tee (includes nozzle, o-ring, and cap)
4	767001991	2	Assy, 3/4" Diaphragm Elbow (includes nozzle, o-ring, and cap)
5	76700118*	*	Hose, 3/4" EPDM
6	76700127	**	Clamp, Hose-3/4-1" Stainless
7	76700122*	*	Hose, 3/8" EPDM
8	76700126	**	Clamp, Hose -3/8-1/2" Stainless
			*Items sold by the foot.
			**Qty depends on number of row units
			One tee fitting per non-outside row
			One 3/4" clamp per elbow, two 3/4" clamps per tee fitting
			Two 3/8 clamps per row unit

ATTACHING WASH TANK

Instructions:

- Install wash tank mount bracket to mount plate at rear of tank frame using hardware shown.
- Insert wash tank into bracket before installing fittings and hose.
- Install fittings and hose to wash tank.

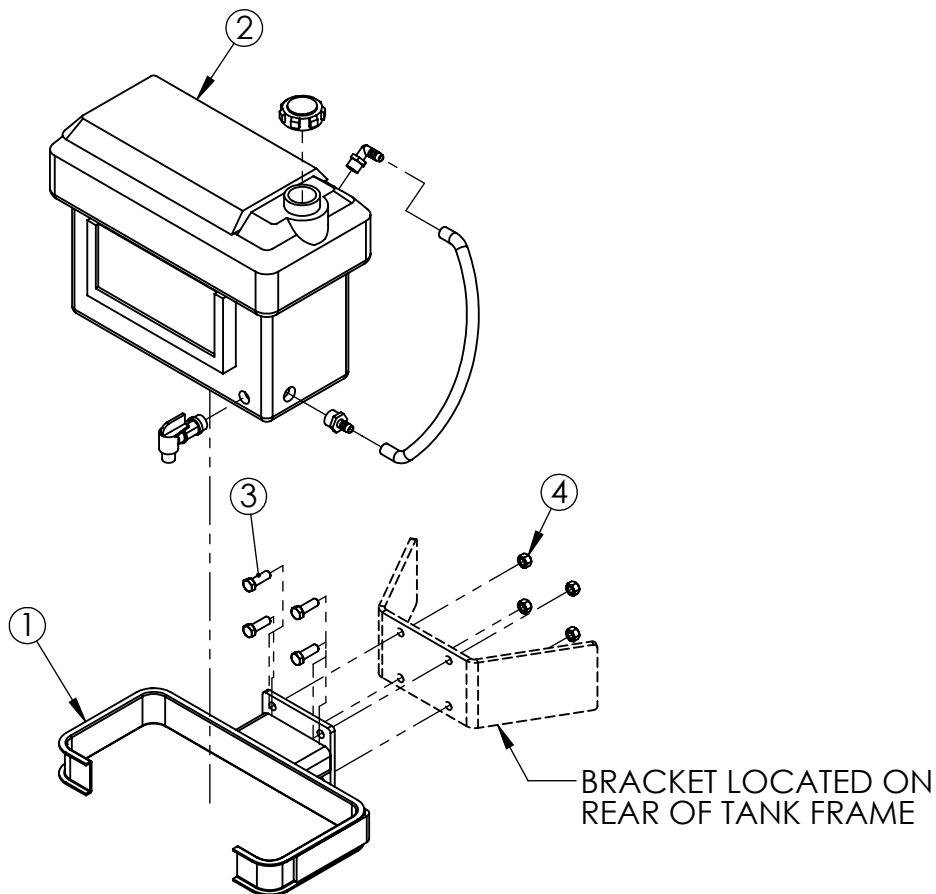


Fig.	Part no.	Qty	Description
1	762450078	1	Bracket, Wash Tank Mount
2	767500030	1	Tank, Wash (includes cap, fittings, and hose)
3	600356109	4	Bolt, 1/2"-13 x 1-1/2" Gr. 5
4	600366030	4	Nut, Top Lock 1/2"-13

DECAL PLACEMENT

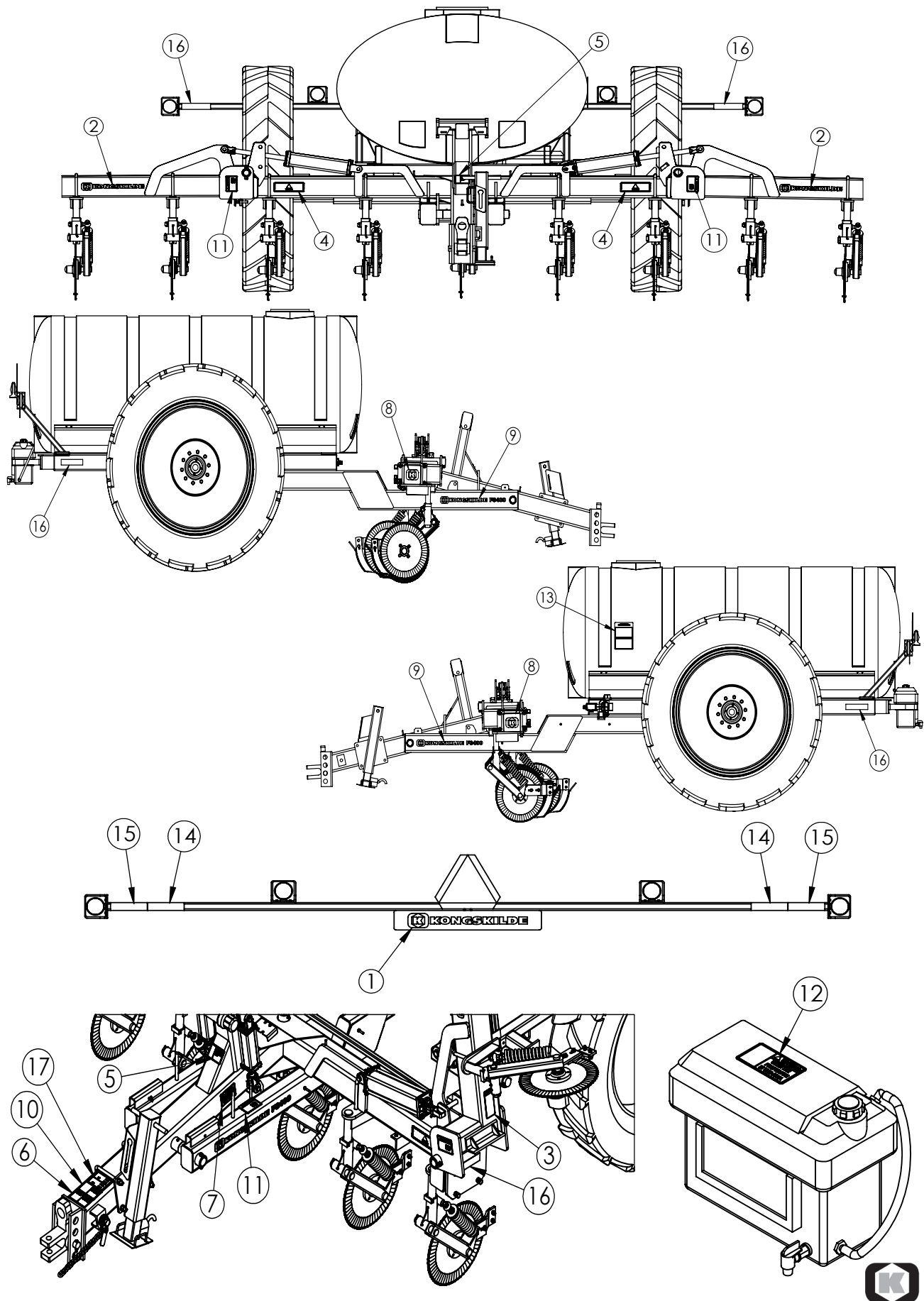


Fig.	Part no.	Qty	Description
1	7600475267	1	Decal, Kongskilde - White 4" x 30"
2	600475237	2	Decal Kongskilde - White 3" x 20"
3	600475039	2	Decal, Wing Safety
4	600475176	2	Decal, Wing Fold Lock
5	7600475276	1	Decal, Read Operator's Manual
6	600475170	1	Decal, Max Speed
7	76900804	2	Decal, Transport Lock
8	7600475272	2	Decal, Kongskilde K Logo - White
9	7600475268	2	Decal, Kongskilde F3400
10	600475160	1	Decal, Tipping Hazzard
11	7600475273	3	Decal, Pinch Point Warning
12	7600475274	1	Decal, PPE Fertilizer Warning
13	7600475275	1	Decal, Pump Chart 8" Tire
14	600475178	2	Strip, Red-Orange Fluorescent
15	600475179	2	Strip, Red Reflective
16	600475180	6	Strip, Yellow Reflective
17	7600475277	1	Decal, Hose Color Code
-	762450095	-	Kit, Complete F3400 Decal (Includes all items 1-17)

Manual Canister

Instructions:

- Install manual canister on lift cylinder tower using hardware shown.
- Store Operator's and Parts manual in canister. Read Operator's manual before operating implement.

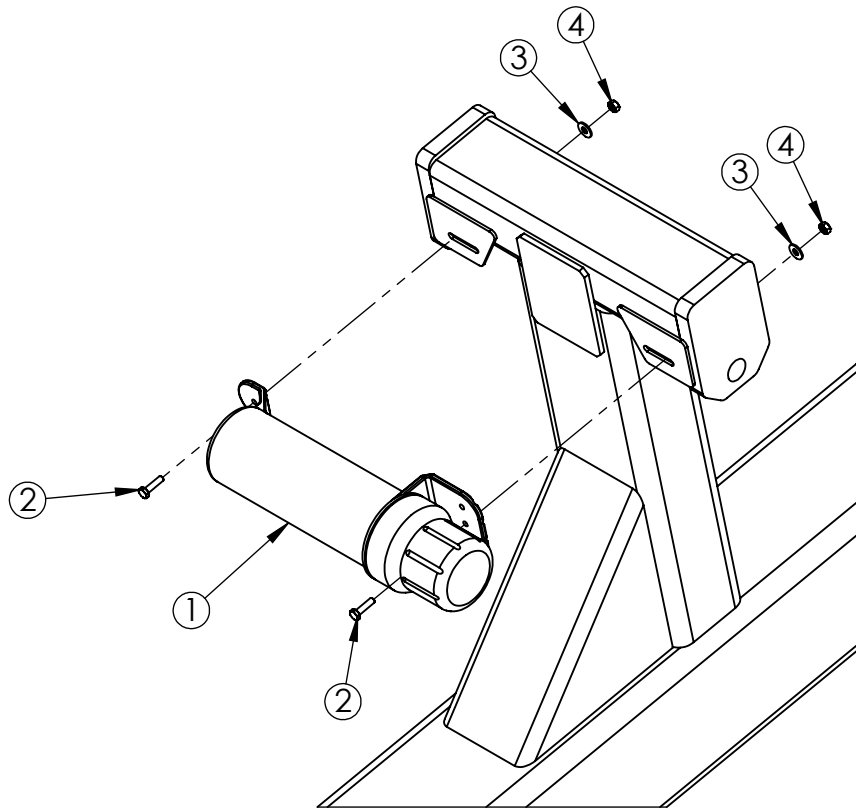


Fig.	Part no.	Qty	Description
1	600600268	1	Canister, Manual
2	600356138	2	Bolt, 1/4"-20 x 1 Gr. 5
3	600381023	2	Washer, Flat 1/4"
4	600366026	2	Nut, Toplock 1/4"-20

HEAVY DUTY 4 BOLT COULTER HUB & SPINDLE

Instructions:

- Install bearing cups into hub casting.
- Pack bearing cones with grease, insert inner bearing and seal.
- Slide hub onto spindle ensuring proper bearing and seal seating.
- Install outer bearing, washer and nut.
- Spin hub and fully tighten nut by hand. Tighten with wrench 1/4 turn while aligning castellated nut with hole in spindle.
- Install cotter pin.
- Place grease in dust cap and tap into place ensuring it is fully seated.

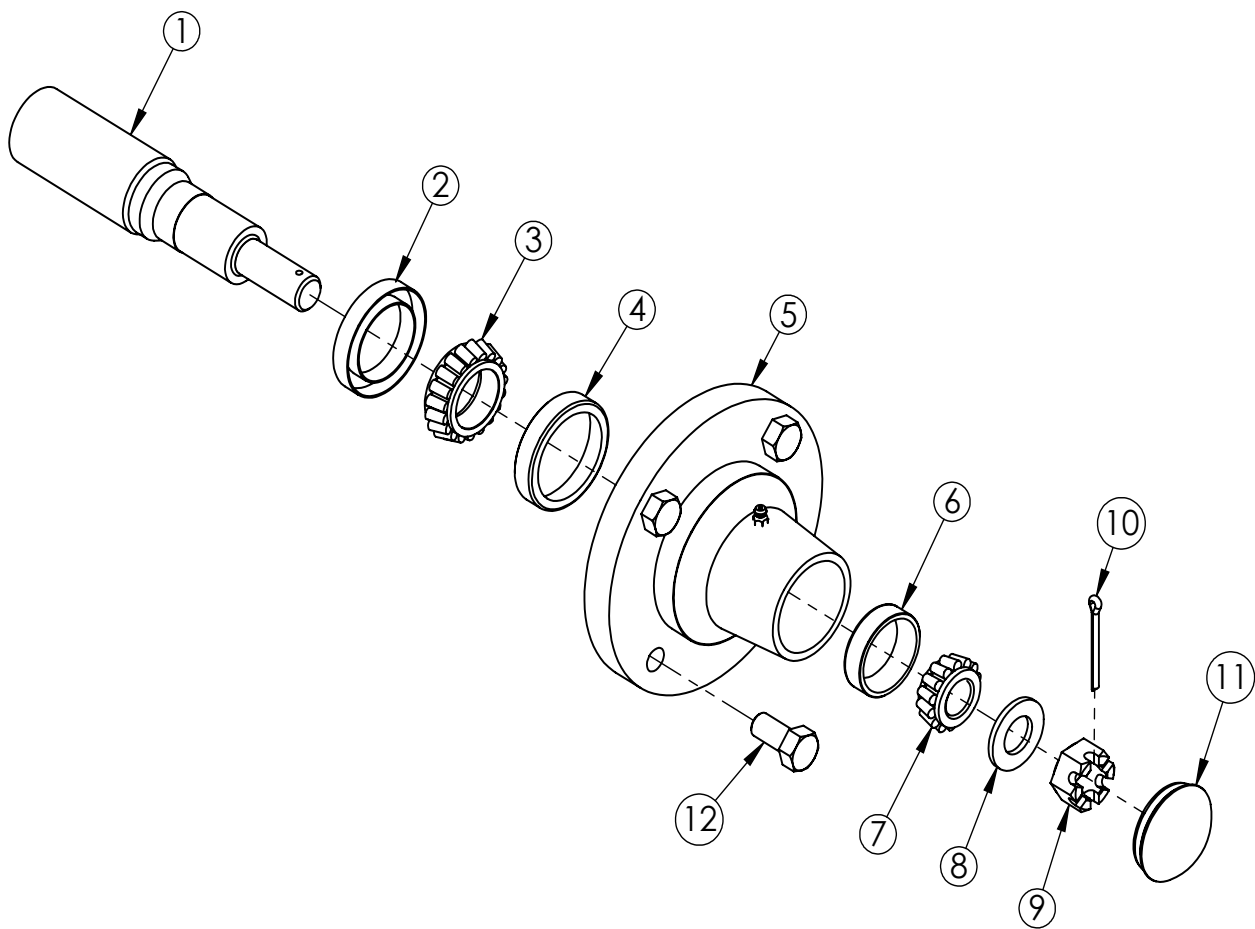


Fig.	Part no.	Qty	Description
-	76301188	-	Assy, Spindle (includes items 1, 8, 9, 10)
-	76301187	-	Assy, Hub (includes items 2-7, 11, 12)
1	76301181	1	Spindle, 1.625" x 8.0"
2	76301183	1	Seal, CR 14975
3	76301132	1	Cone, Bearing LM67048
4	76301134	1	Cup, Bearing LM67010
5	76301182	1	Hub, 4 Bolt W/ 5" Bolt Circle
6	76301184	1	Cup, Bearing LM11910
7	76301185	1	Cone, Bearing LM11949
8	76301142	1	Washer, Thrust 1.5" OD x .8125" ID
9	76301153	1	Nut, Castellated 3/4-16 (UNF)
10	76301152	1	Pin, Cotter 5/32" x 1-3/4"
11	76301186	1	Cap, Dust
12	76301150	4	Bolt, Lug 1/2"-20 x 1" (UNF)

10 BOLT HUB & SPINDLE

Instructions:

- Install bearing cups into hub casting.
- Pack bearing cones with grease, insert inner bearing and seal.
- Slide hub onto spindle ensuring proper bearing and seal seating.
- Install outer bearing, washer and nut.
- Spin hub and fully tighten nut by hand. Tighten with wrench 1/4 turn while aligning castellated nut with hole in spindle.
- Install cotter pin.
- Place grease in dust cap and tap into place ensuring it is fully seated.

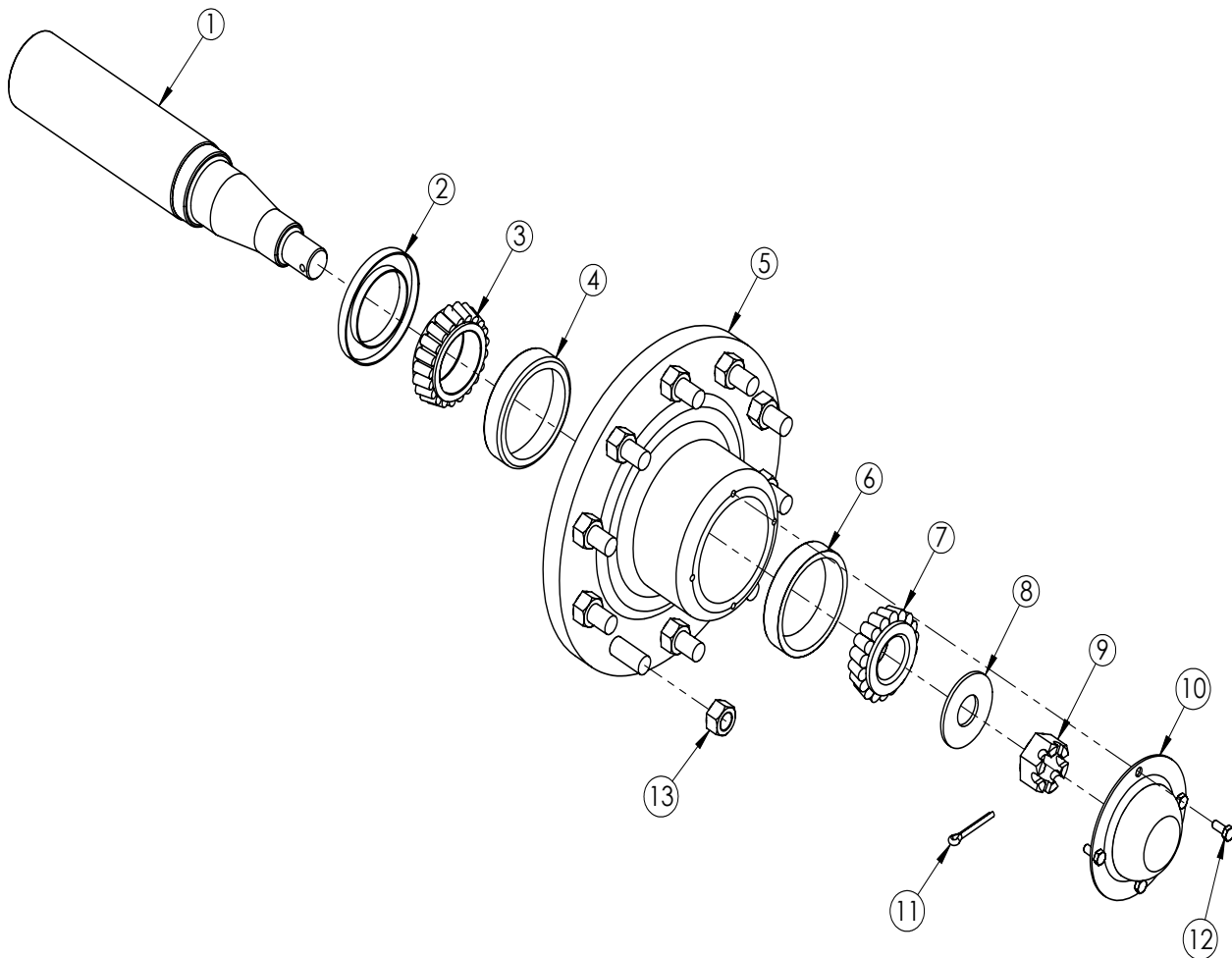


Fig.	Part no.	Qty	Description
-	76301166	-	Assy, Spindle (includes items 1, 8, 9, 11)
-	76301162	-	Assy, Hub (includes items 2-7, 10, 12, 13)
1	76301171	1	Spindle, 3-1/8" x 17-3/8"
2	76301156	1	Seal, TCM 30454SA
3	76301172	1	Cone, Bearing TAM39585
4	76301173	1	Cup, Bearing 69520
5	76301174	1	Hub, 10 Bolt
6	76301175	1	Cup, Bearing Timken 453A
7	76301176	1	Cone, Bearing Timken 460
8	76301177	1	Washer, Thrust 3" OD x 1-1/4" ID x .160"
9	76301178	1	Nut, Slotted 1-1/4-12 (UNF)
10	76301179	1	Cap, Dust
11	76101265	1	Pin, Cotter 1/4" x 2"
12	76101113	4	Bolt, Hex 5/16"-18 x 3/4"
13	76301189	10	Nut, Lug 3/4"-16

LION 2500 TL SERIES 2" X 8" CYLINDER

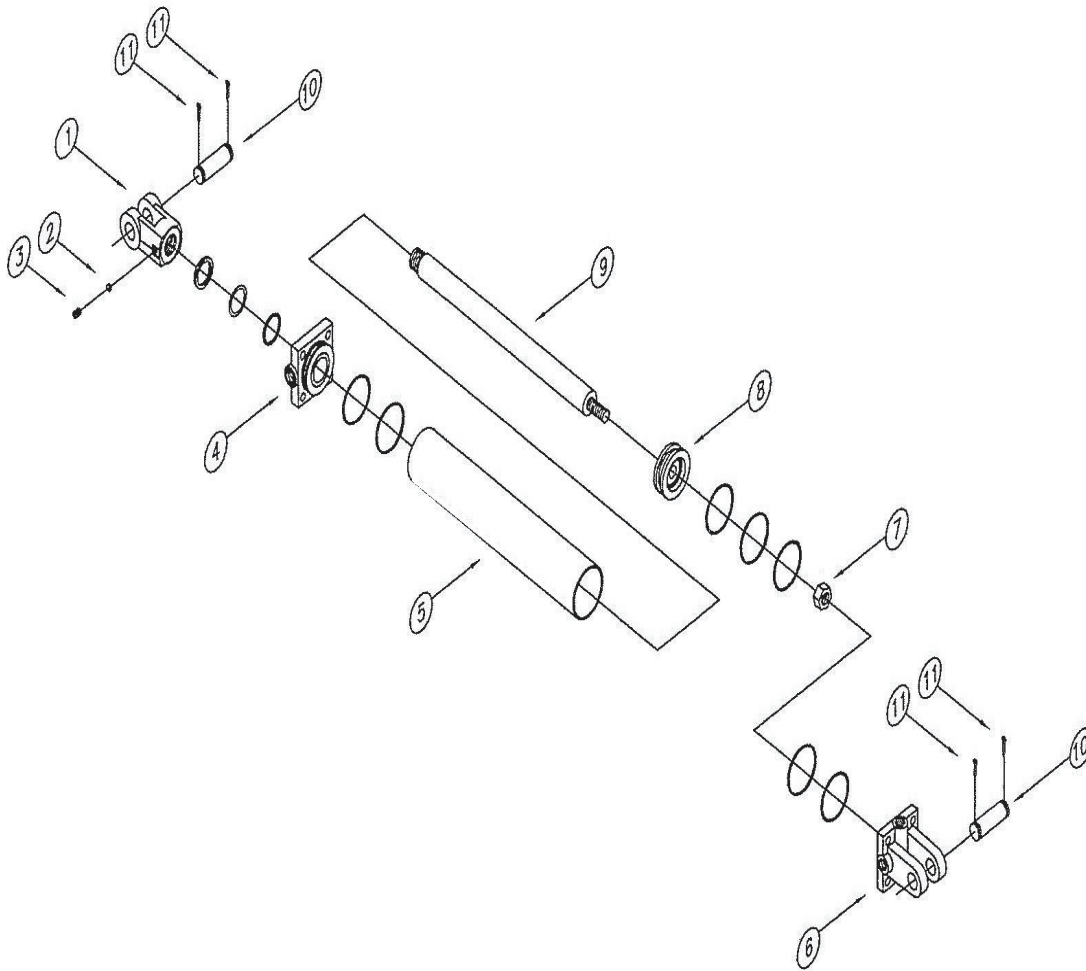


Fig.	Part no.	Qty	Description
-	76204001	-	Cylinder, 2" x 8"
1	76205165	1	Clevis, Rod - 492650
2	76205101	1	Lock, Thread - 498006
3	76205102	1	Screw, Set 3/8"-16 - 148390
4	76205166	1	Cap, Rod - 492806
5	76205167	1	Sleeve, Cylinder - 491608
6	76205168	1	Cap, Clevis - 492805
7	76205170	1	Nut, Piston Lock - 129090
8	76205169	1	Piston - 492548
9	76205171	1	Rod, Cylinder - 492699
10	76602112	1	Pin, Cylinder 1" x 3-3/8"
11	600383058	4	Pin, Cotter 5/32" x 2"
-	76205172	-	Kit, Complete Seal

LION 2500 TL SERIES 3" X 8" CYLINDER

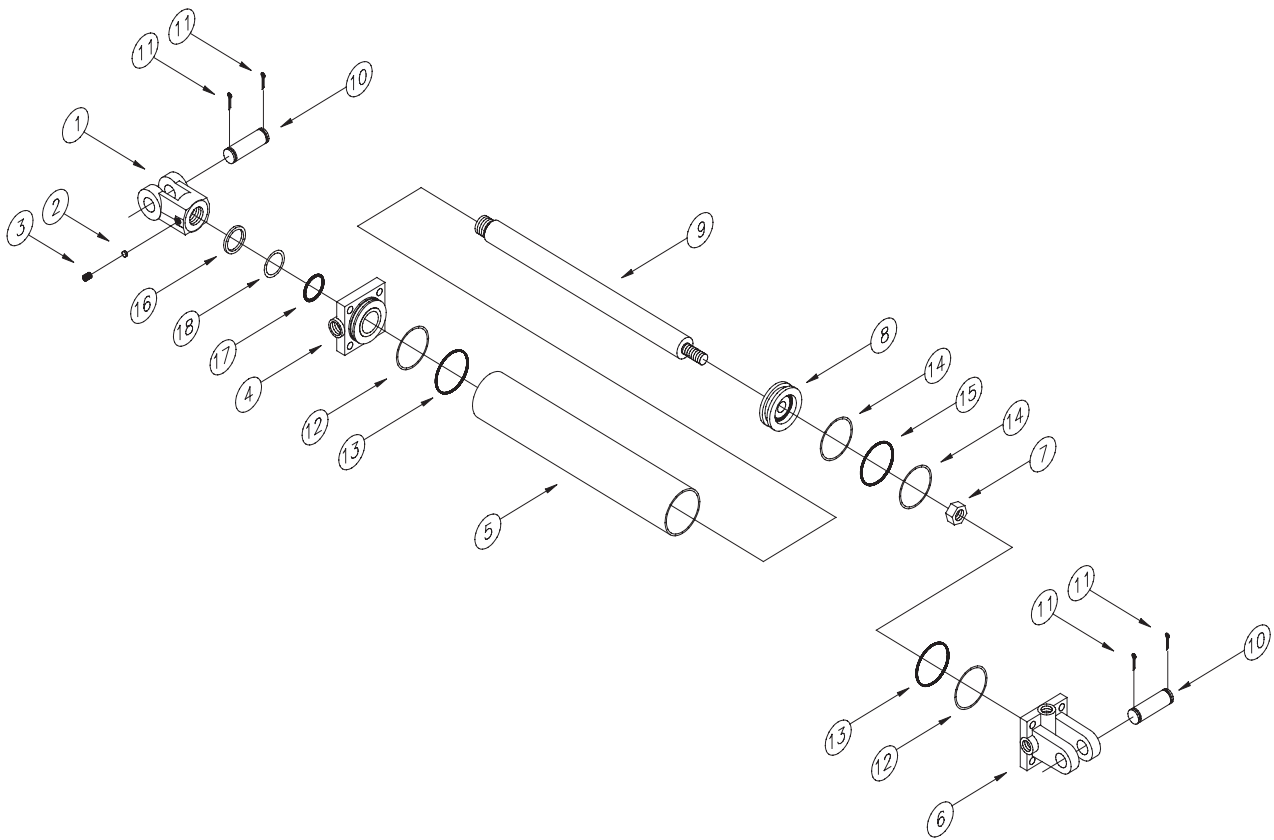


Fig.	Part no.	Qty	Description
-	76204002	-	Cylinder, 3" x 8"
1	76205100	1	Clevis, Rod - 492652
2	76205101	1	Lock, Thread - 498006
3	76205102	1	Screw, Set 3/8"-16 - 148390
4	76205103	1	Cap, Rod - 492812
5	76205163	1	Sleeve, Cylinder - 491738
6	76205105	1	Cap, Clevis - 492810
7	76205106	1	Nut, Lock 1-1/2"-12 - 129110
8	76205107	1	Piston - 492520
9	76205162	1	Rod, Cylinder - 492700
10	76602112	2	Pin, Cylinder 1" x 3-3/8"
11	600383058	4	Pin, Cotter 5/32" x 2"
12	76205017	2	O-Ring, B.U. - #40
13	76205018	2	O-Ring - #10
14	76205019	2	O-Ring, B.U. - #14
15	76205020	1	O-Ring - #12
16	76205021	1	Wiper - #13
17	76205022	1	O-Ring, Rod - #11
18	76205023	1	B.U., Rod - #24
-	76205016	-	Kit, Complete Seal

LION 2500 SERIES 4" X 16" CYLINDER

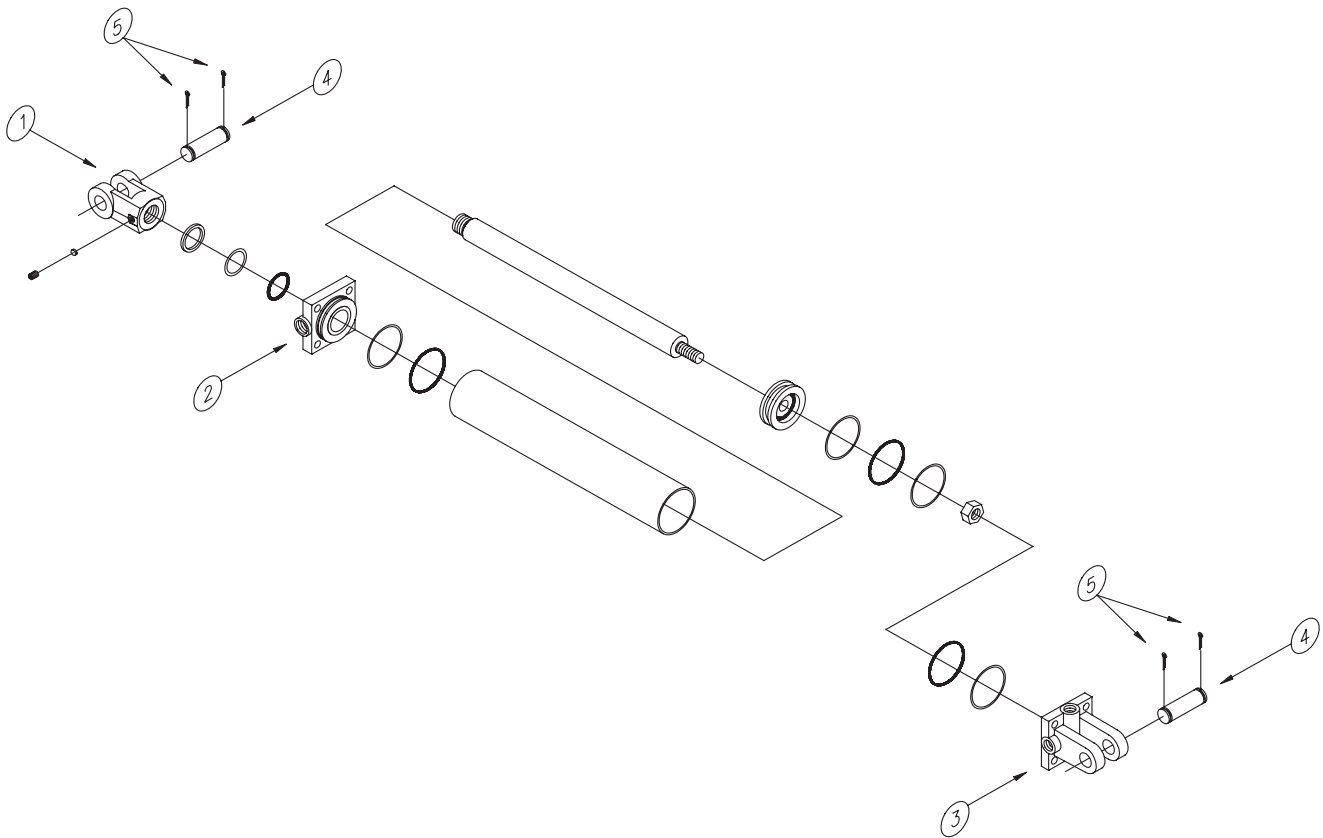
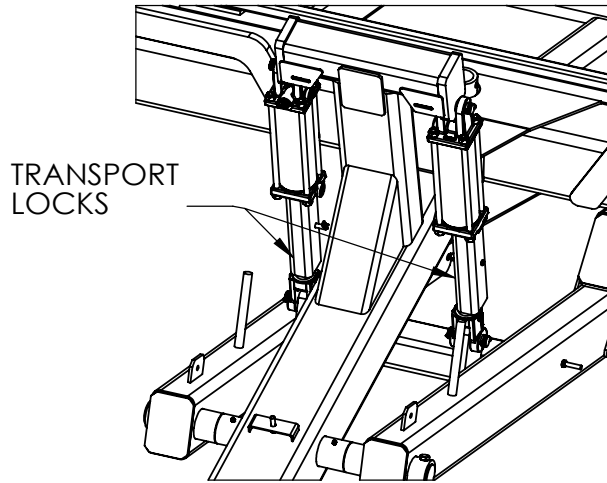


Fig.	Part no.	Qty	Description
-	76204007	-	Cylinder, 4" x 16"
1	76205100	1	Clevis, Rod - 492652
2	76205176	1	Cap, Rod
3	76205177	1	Cap, Clevis
4	76602112	2	Pin, Cylinder 1" x 3-3/8"
5	600383058	4	Pin, Cotter 5/32" x 2"
-	76205175	1	Kit, Complete Seal

Assembly Completion

After assembly is complete, charge the 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 lift cylinders.

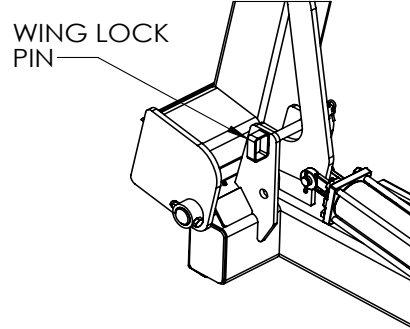
CAUTION: ALWAYS INSTALL THE TRANSPORT LOCK ONTO THE LIFT CYLINDERS WHEN THE IMPLEMENT IS PLACED IN THE RAISED POSITION FOR TRANSPORT, MAINTENANCE OR STORAGE. Secure with the pin and lock clip provided.



The wing fold cylinders must be charged with oil before attempting to fold the bar. 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.



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

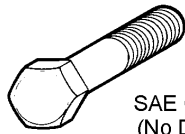
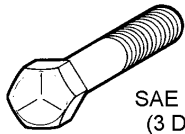
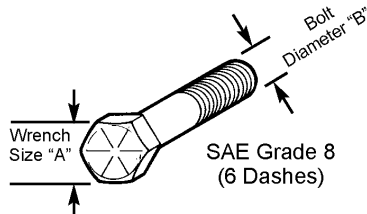
Refer to the Owners Manual for further safety information before attempting to operate or service the unit.

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.

Torque Chart

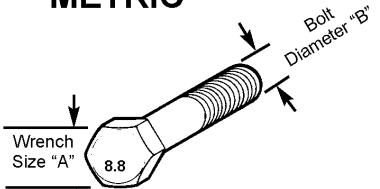
TORQUE SPECIFICATIONS

AMERICAN
Bolt Head MarkingsSAE 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: _____

This image shows a full page of blank handwriting practice paper. It features approximately 28 evenly spaced horizontal blue lines across the entire page, providing a guide for letter height and placement. The lines are uniform in color and thickness, set against a plain white background. There are no margins, text, or other markings present.

