



**2011 AC2000 AIR CART
ASSEMBLY AND PARTS MANUAL**



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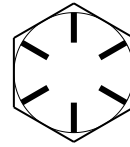
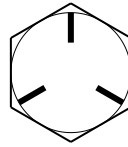
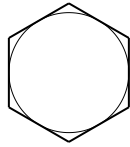
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Notes

Salford Recommended Torque Values



BOLT SIZE	GRADE 2		GRADE 5		GRADE 8	
	ft-lbs	Nm	ft-lbs	Nm	ft-lbs	Nm
1/2"NC	50	68	75	102	105	142
5/8"NC	90	122	150	203	210	285
3/4"NC	160	217	270	366	375	508
7/8"NC	145	197	395	536	610	827
1"NC	210	285	590	800	910	1234

NOTES: These recommended torque values are applicable when applied to the nut only. These recommended torque values are approximate only. The torque-tension relationship is affected by lubrication, surface finish, thread fit, plating, lock-washers, etc.

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

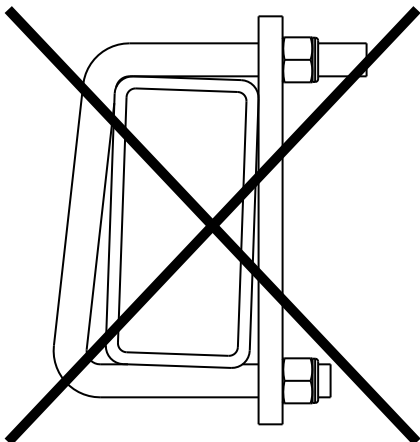
Shear bolts are designed to fail under predetermined loads. Always replace shear bolts with identical grade.

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

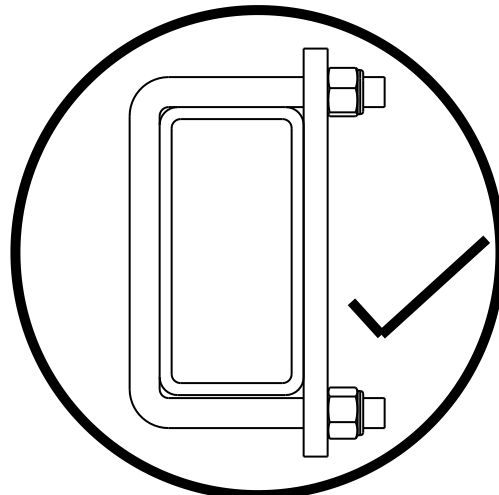
Make sure fasteners threads are clean and that you properly start thread engagement. This will prevent them from failing when tightening.

WARNING

Do not tighten one side of the u-bolt before the other side.



Both sides of the u-bolt must be tightened equally.



Wheel Torque Specifications



WARNING Maintain proper torque to provide safe and secure attachment of the wheel hub/drum. Improperly tightened wheel nuts can cause the wheel to separate from the wheel mounting surface during operation. This could result in property damage, serious personal injury, or possibly loss of life.

NOTE - If wheel does not have chamfers to match profile of the nuts, use flat side of nuts against rim face.

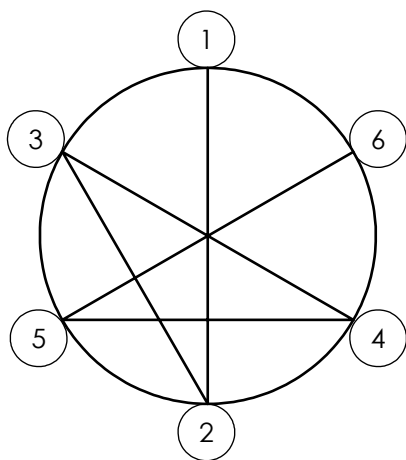
Install all lug nuts/bolts by hand to prevent cross threading and tighten lug nuts/bolts following the steps and tightening sequence diagram below.

- STEP 1) Torque to 20-25 ft•lbs following the appropriate pattern below.
 STEP 2) Torque to 55-60 ft•lbs following the appropriate pattern below.
 STEP 3) Torque to final ft•lbs rating (see bolt size below) following the appropriate pattern below.

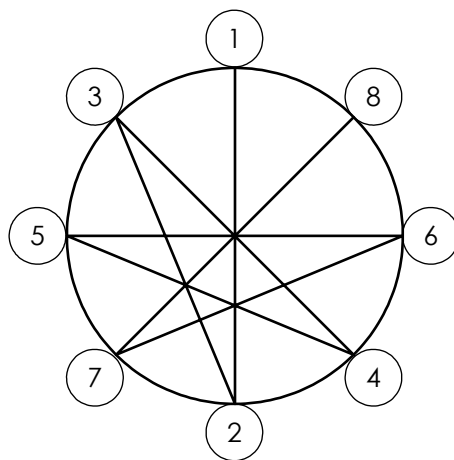
Bolt Size (Hub Size)	Final Torque
1/2" dia. bolt (up to 3000 lb hubs)	85 ft•lbs
9/16" dia. bolt (4000 - 5000 lb hubs)	120 ft•lbs
5/8" dia. bolt (5500 - 12000 lb hubs)	170 ft•lbs
3/4" dia. bolt (16000 - 20000 lb hubs)	300 ft•lbs
7/8" dia. bolt (25000 lb hubs)	450-500 ft•lbs

Lug Nut/Bolt Tightening Sequence

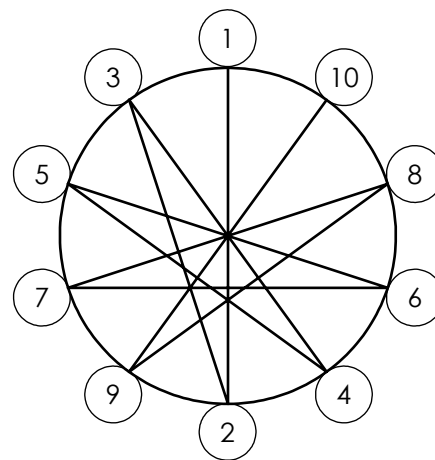
6 LUG BOLT PATTERN



8 LUG BOLT PATTERN



10 LUG BOLT PATTERN



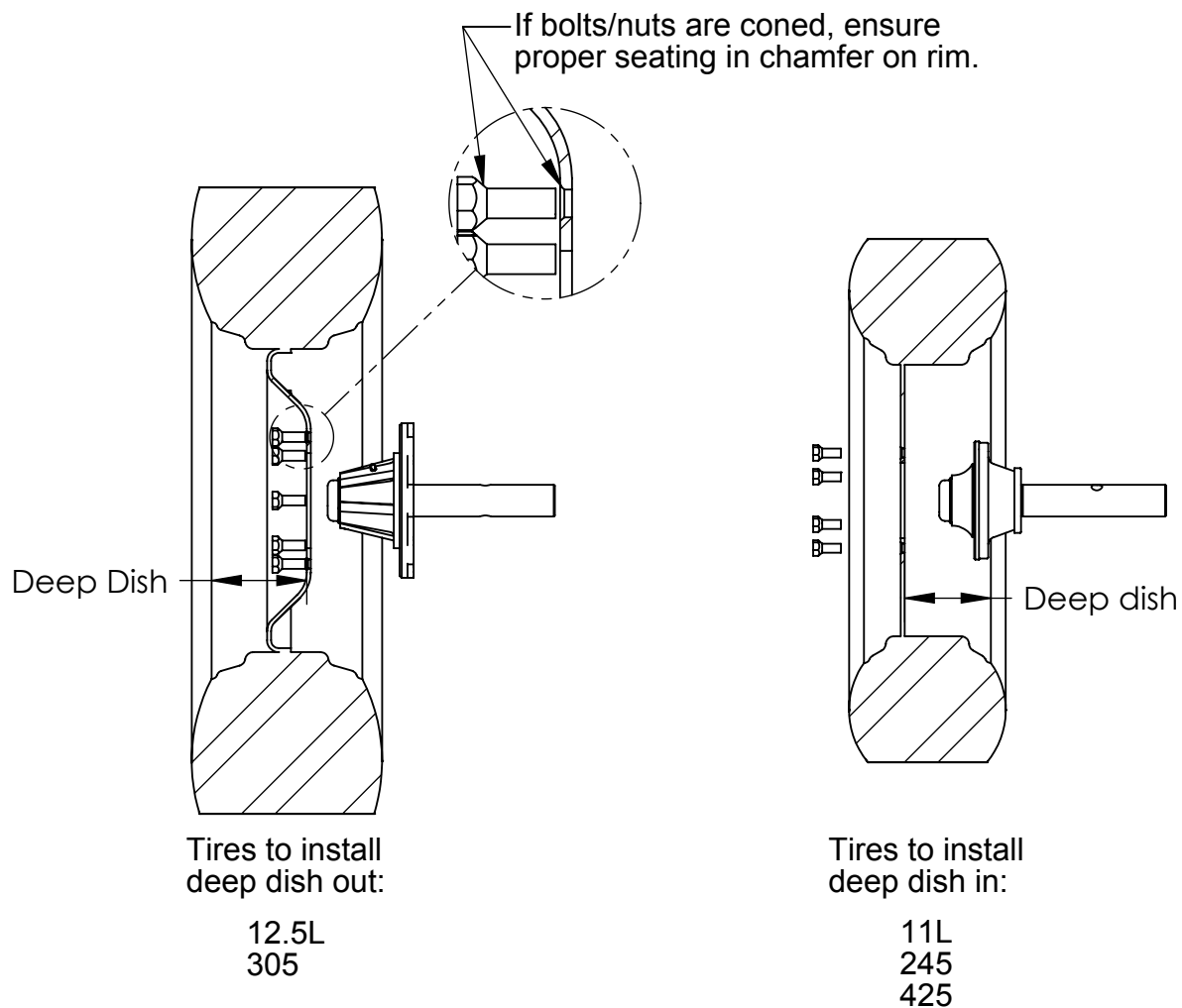
NOTE - Recheck the torque settings of lug nuts/bolts after 10km (6 miles) and again after 50km (30 miles). Periodically and at the beginning of each season check the condition and the torque of the lug nuts/bolts.

Tire Pressure Ratings

Ensure proper inflation of each tire for safe operation and extended tire life.

Pressure [psi]	Pressure [bar]	Tire Size
25 [psi]	1.72 [bar]	23.1 x 26 (16 ply)
35 [psi]	2.41 [bar]	Load Range C - 11L15
36 [psi]	2.48 [bar]	28L26 (16 ply)
52 [psi]	3.58 [bar]	30.5LR32 (181A8/B)
65 [psi]	4.48 [bar]	Load Range D - 11L15 - 12.5L15
90 [psi]	6.20 [bar]	Load Range F - 11L15 - 12.5L15 Truck Tires - 245/70R19-5 - 305/70R22-5 - 425/60R22-5

NOTE - Periodically and at the beginning of each season check the condition and the pressure of each tire.



Tire Installation Direction

General Safety Precautions

Signal Words

The words **DANGER**, **WARNING** or **CAUTION** are used with the safety alert symbol. Learn to recognize the safety alerts, and follow the recommended precautions and safe practices.

Three words are used in conjunction with the safety-alert symbol:



DANGER

Indicates an imminently hazardous situation that, if not avoided, will cause **DEATH OR VERY SERIOUS INJURY**.



WARNING

Indicates a potentially hazardous situation that, if not avoided, could cause **DEATH OR SERIOUS INJURY**.



CAUTION

Indicates a potentially hazardous situation that, if not avoided, may result in **MINOR or MODERATE INJURY**.

Replace any **DANGER**, **WARNING**, **CAUTION** or instructional decal that is not readable or is missing. The location and part number of these decals is identified later in this section of the manual.

The words **Important** and **Note** are not related to personal safety but are used to give additional information and tips for operating or servicing this equipment.

IMPORTANT: Identifies special instructions or procedures which, if not strictly observed could result in damage to, or destruction of the machine, process or its surroundings.

NOTE: Indicates points of particular interest for more efficient and convenient repair or operation.

A CAREFUL OPERATOR IS THE BEST INSURANCE AGAINST AN ACCIDENT !

General Safety Precautions



DANGER

- Wings may fall rapidly causing injury.
- Always stay clear of wings when being lowered, raised or in an elevated state.
- Always use lockup device provided when raised.
- Ensure cylinder is completely filled with hydraulic fluid to avoid unexpected movement.

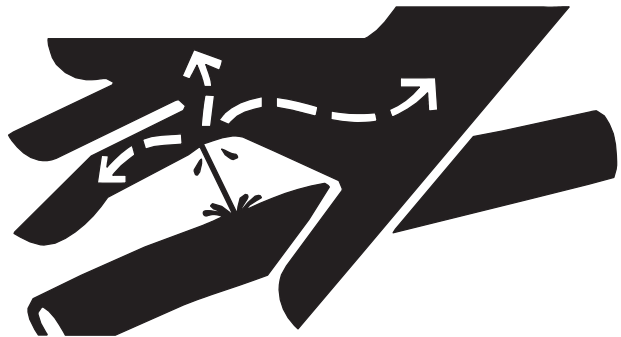


Hydraulics



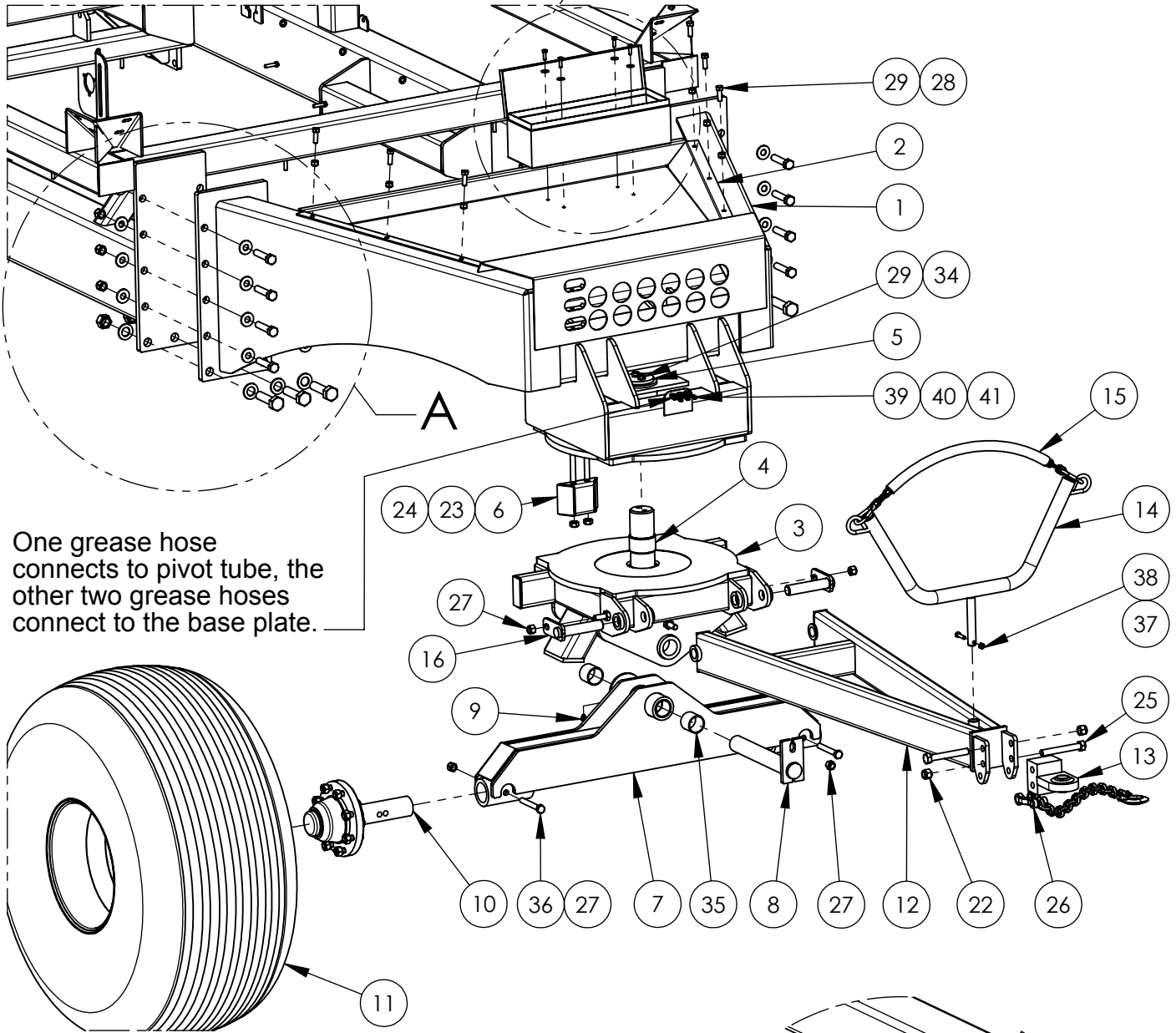
DANGER

- **DO NOT** search for high pressure hydraulic leaks without hand and face protection. A tiny, almost invisible leak can penetrate skin, thereby requiring immediate medical attention.
- Use cardboard or wood to detect leaks never your hands.
- Double check that all is clear before operating hydraulics.
- **Never** remove hydraulic hoses or ends with machine elevated. Relieve hydraulic pressure before disconnecting hydraulic hoses or ends.
- Maintain proper hydraulic fluid levels.
- Keep all connectors clean for positive connections.
- Ensure all fittings and hoses are in good condition.
- Do not stand under wings.



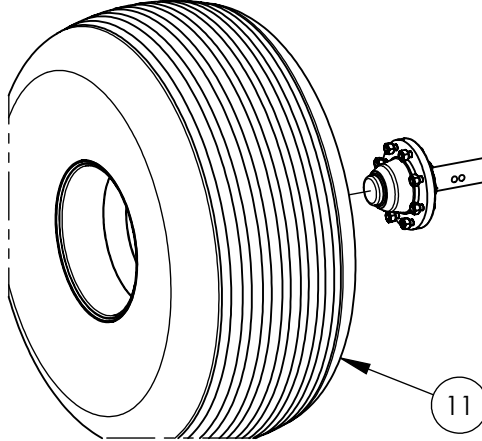
Tow Behind Front End Assembly

B

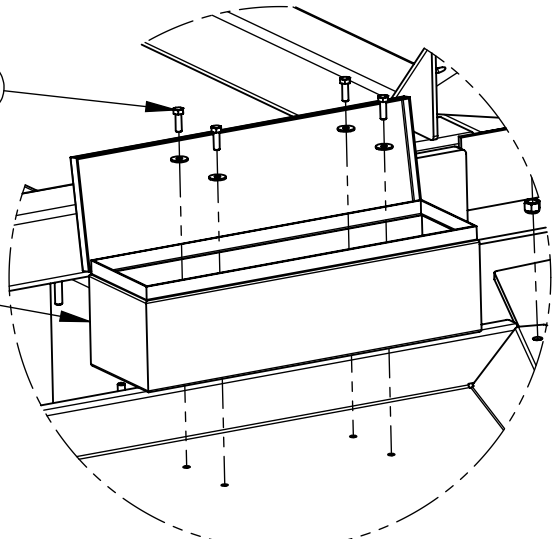


A

One grease hose connects to pivot tube, the other two grease hoses connect to the base plate.



33 31 32



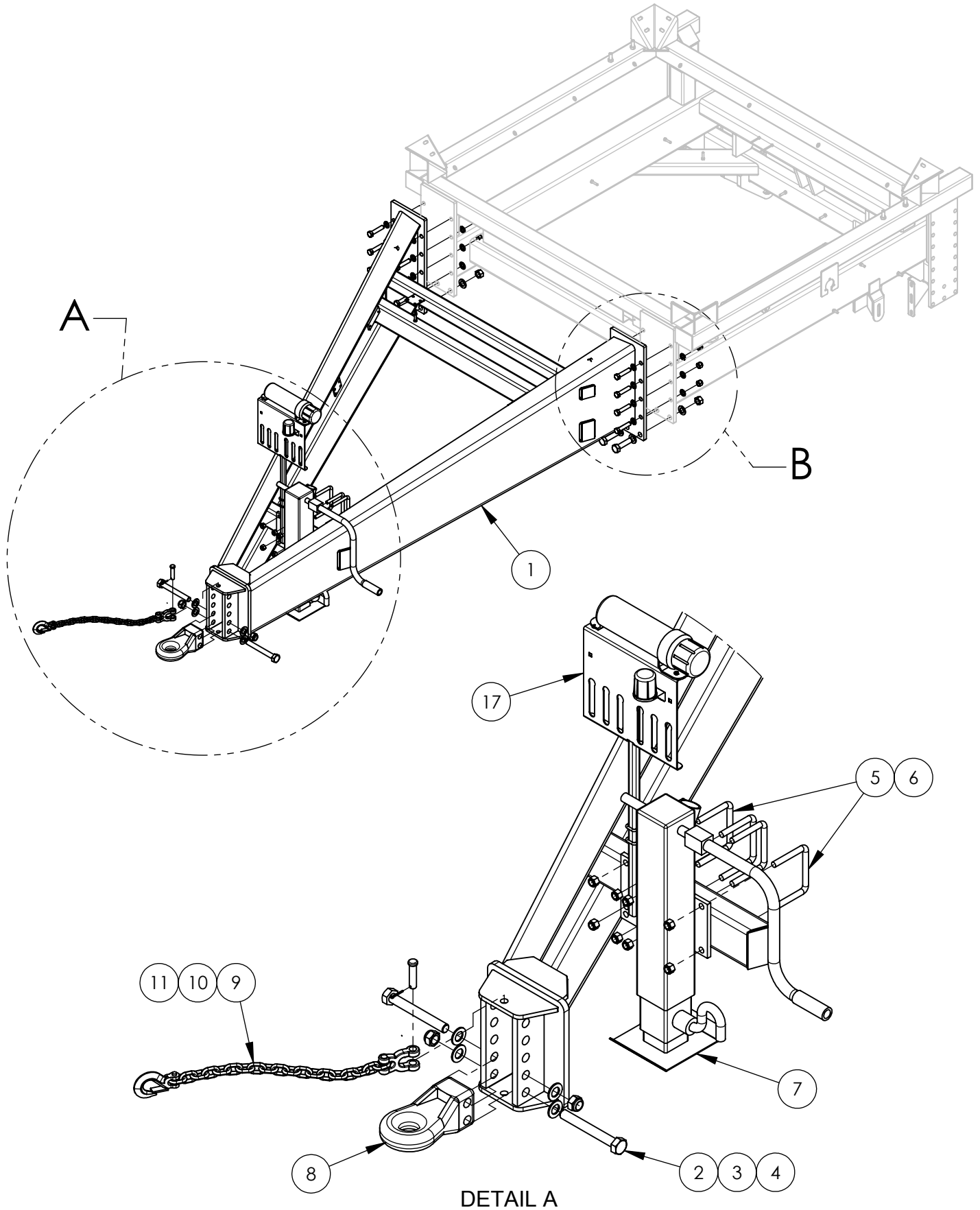
DETAIL A

DETAIL B

Tow Behind Front End Assembly

ITEM	QTY	PART NO.	DESCRIPTION
1	1	T01342	AC2000 TBH FRONT END WLDT
2	1	FL00910	AC2000 TBH FRONT TRAY
3	1	T01345	AC2000 TBH FRONT CASTER WLDMNT
4	2	GBB325300200	3.27 x 3.02 x 2.00 LG. HARD BUSHING
5	1	FL00037	3/8 X 3 3/4" BOGEY WHEEL CAP
6	1	T00630	CASTER WHEEL STOPPER
7	1	T01343	AC2000 TBH FRONT AXLE WLDT
8	1	GPH3201434F	2" x 14 3/4" LG. AXLE PIN - HARDENED
9	1	GF637	1/4"28NF x 45° GREASE FITTING
10	2	GW8000A	8000 lb GREASABLE HUB AND 14" SPINDLE ASSY
11	2	GW22168	FRONT TANK TIRE
12	1	T01200	TBH AIR CART HEAVY TONGUE
13	1	T01277	HD TOW BEHIND AIR CART CLEVIS
14	1	T00673	TBH AIR CART TONGUE HOSE GUIDE
15	1	T00664	AIR HOSE CHAIN WITH CLIPS - 34 1/2" LG.
16	2	GPH2000612F	1 1/4" x 6 1/2" LG. PIN - HARDENED
17	6	B1640HF	1"NF x 4" HEX BOLT GR. 8
18	16	B1235	3/4 x 3 1/2" GR.5 HEX BOLT PLATED
19	12	BF16HS	1" HARD STRUCTURAL WASHER
20	6	BN16LHF	1" NF NYLOCK NUT GR. 8
21	32	BF12	3/4" FLAT WASHER
22	18	BN12L	3/4" NC NYLOCK NUT
23	2	BN10S	5/8" NC STOVER LOCK NUT
24	2	B1055H	5/8 x 5 1/2" HEX BOLT GR 8
25	2	B1255	3/4" NC x 5 1/2" LG. HEX BOLT GR. 5
26	1	GJ35K48	35,000 LB SAFETY CHAIN - 48" LG.
27	5	BN10L	5/8" NYLOCK NUT NC
28	6	BN08L	1/2" NYLOCK NUT NC
29	8	B0815	1/2 X 1 1/2" GR. 5 PLATED BOLT
30	1	A60100	AIR SEEDER TOOLBOX
31	4	BF05	5/16" FLATWASHER
32	4	B0510	5/16"NC x 1" HEX BOLT GR. 5 PLATED
33	4	BN05L	5/16" LOCK NUT
34	2	BL08	1/2" SPRING WASHER
35	2	GBB225200200	2 1/4" x 2" x 1" LG. HARD BUSHING
36	2	B1045	5/8 x 4-1/2" BOLT
37	1	B0615	3/8" NC 1 1/2" HEX BOLT PLATED GR. 5
38	1	BN06L	3/8"-16NC LOCK NUT
39	3	GF1610	1/8" NPT GREASE FITTING
40	3	H5000-2	1/8" COUPLING
41	3	DF-3	GREASE BANK HOSE 18" LONG

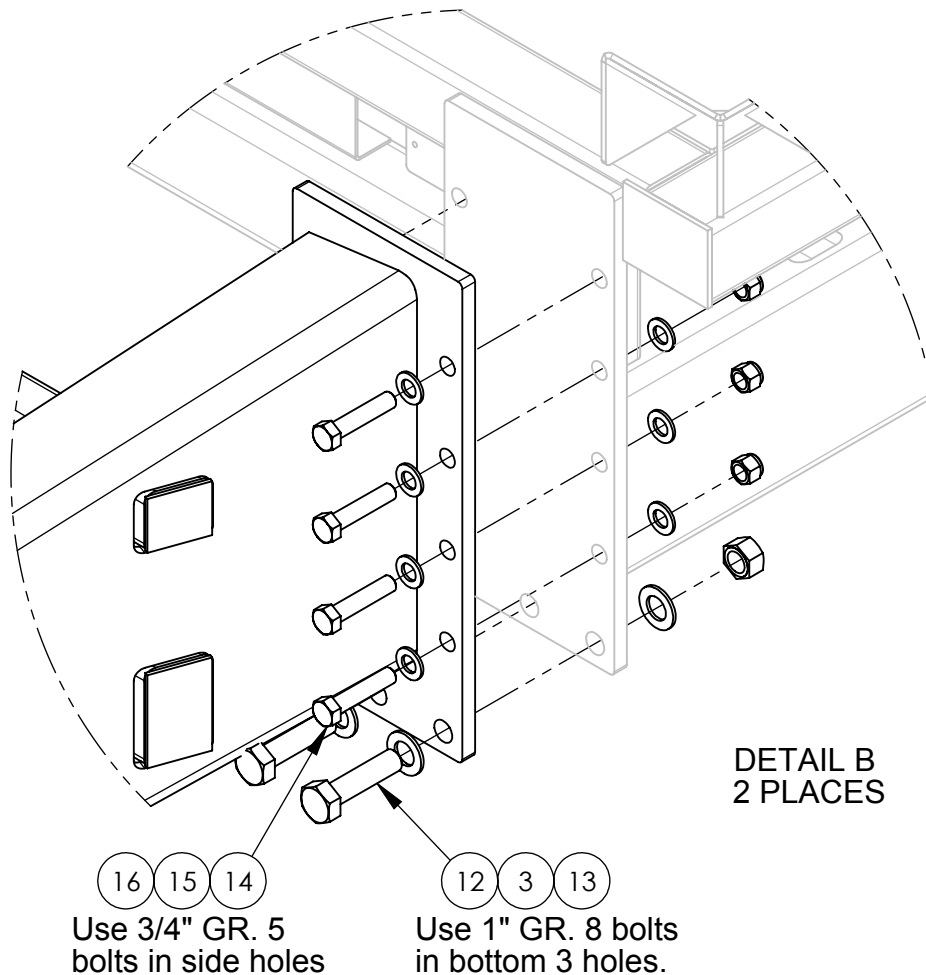
Tow Between Tongue Assembly



DETAIL A

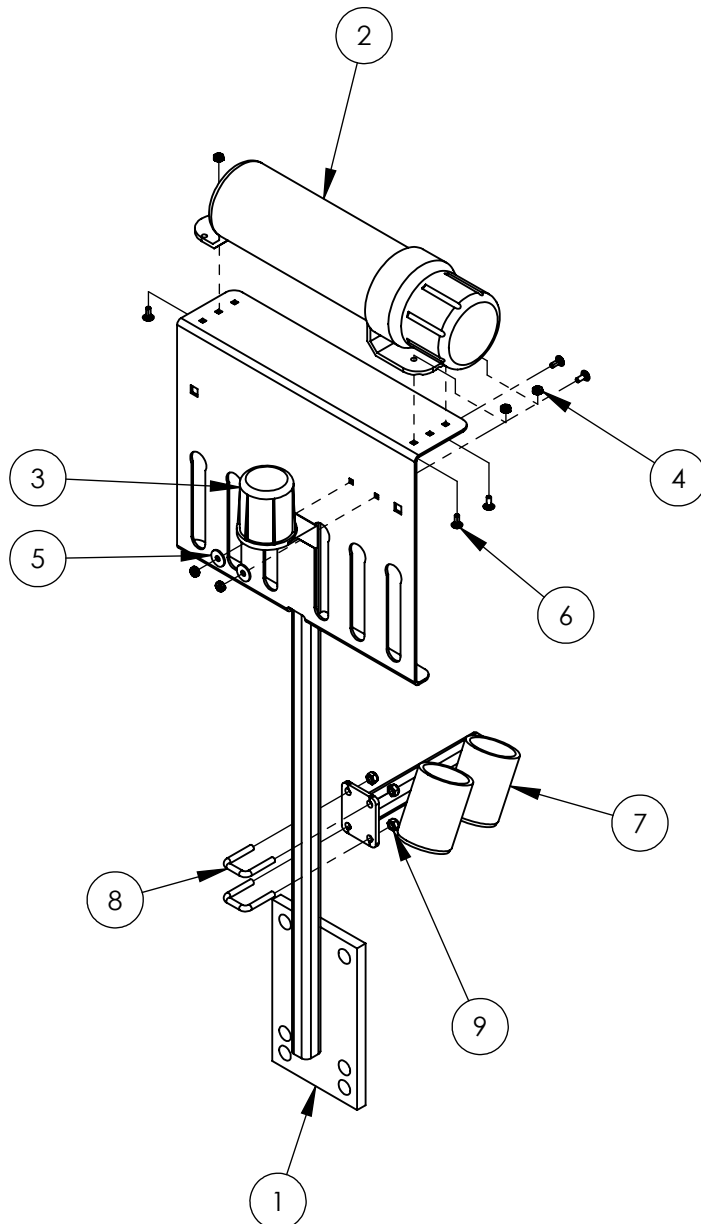
Tow Between Tongue Assembly

ITEM	QTY	PART NO.	DESCRIPTION
1	1	T00963	AIR CART TONGUE
2	2	B1680H	1" x 8" NC HEX BOLT GR. 8
3	16	BF16HS	1" HARD STRUCTURAL WASHER
4	2	BN16L	1-8 NC NYLOCK NUT
5	4	BU1050	5/8" x 5 x 4 1/2" U-BOLT
6	8	BN10L	5/8" NYLOCK NUT NC
7	1	T01064	AC1/2000 10,000LB JACK
8	1	PPI-42XL	CAT 4 CAST IRON HITCH
9	1	GJ35K48	35,000 LB SAFETY CHAIN - 48" LG.
10	1	GP12003H03	3/4" X 3" HEADED PIN
11	1	BSC0315	3/16" x 1 1/2" COTTER PIN
12	6	B1640HF	1"NF x 4" HEX BOLT GR. 8
13	6	BN16LHF	1" NF NYLOCK NUT GR. 8
14	16	B1235	3/4 x 3 1/2" GR.5 HEX BOLT PLATED
15	32	BF12HS	3/4" HARD STRUCTURAL WASHER
16	16	BN12L	3/4" NC NYLOCK NUT
17	1	T01042A	AIR CART OPERATOR STATION ASSEMBLY



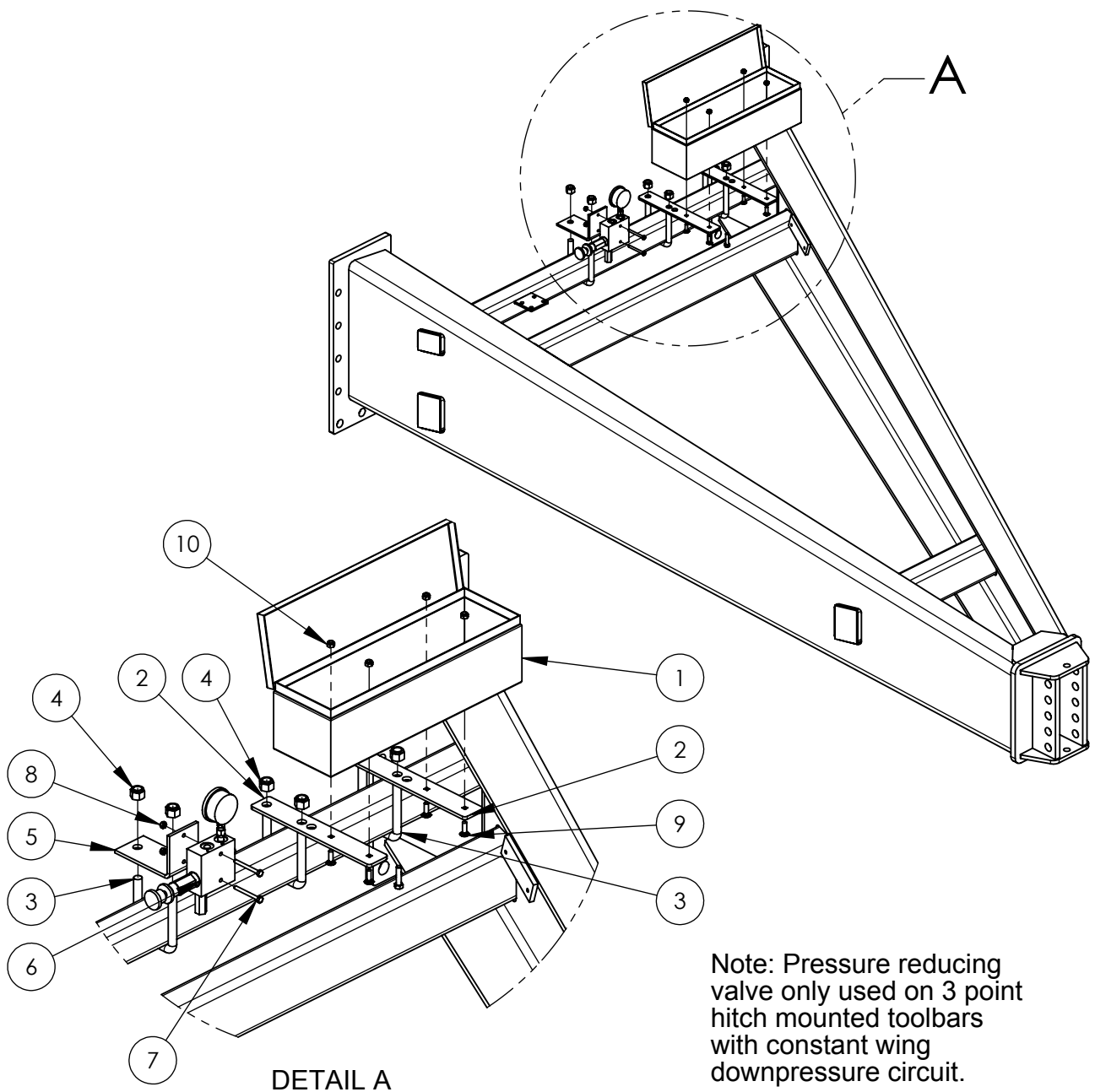
Hose Holder Assembly

ITEM	QTY	PART NO.	DESCRIPTION
1	1	T01042	AIR CART OPERATOR STATION/HOSE HOLDER
2	1	G106	HD OPERATORS MANUAL HOLDER
3	1	GL11750	LIGHT PLUG HOLDER - PLASTIC
4	5	BN02K	10-24 ZINC PLATED K-LOCK NUT
5	2	BF04	1/4" FLATWASHER
6	5	BC0205	10-24 x 1/2" A307A LOW CARBON ZINC CARRIAGE BOLT
7	1	A60095	MONITOR PLUG/CASE DRAIN HOLDER
8	2	BU0410	1/4 x 1 1/2" U-BOLT
9	4	BN04L	1/4" LOCK NUT

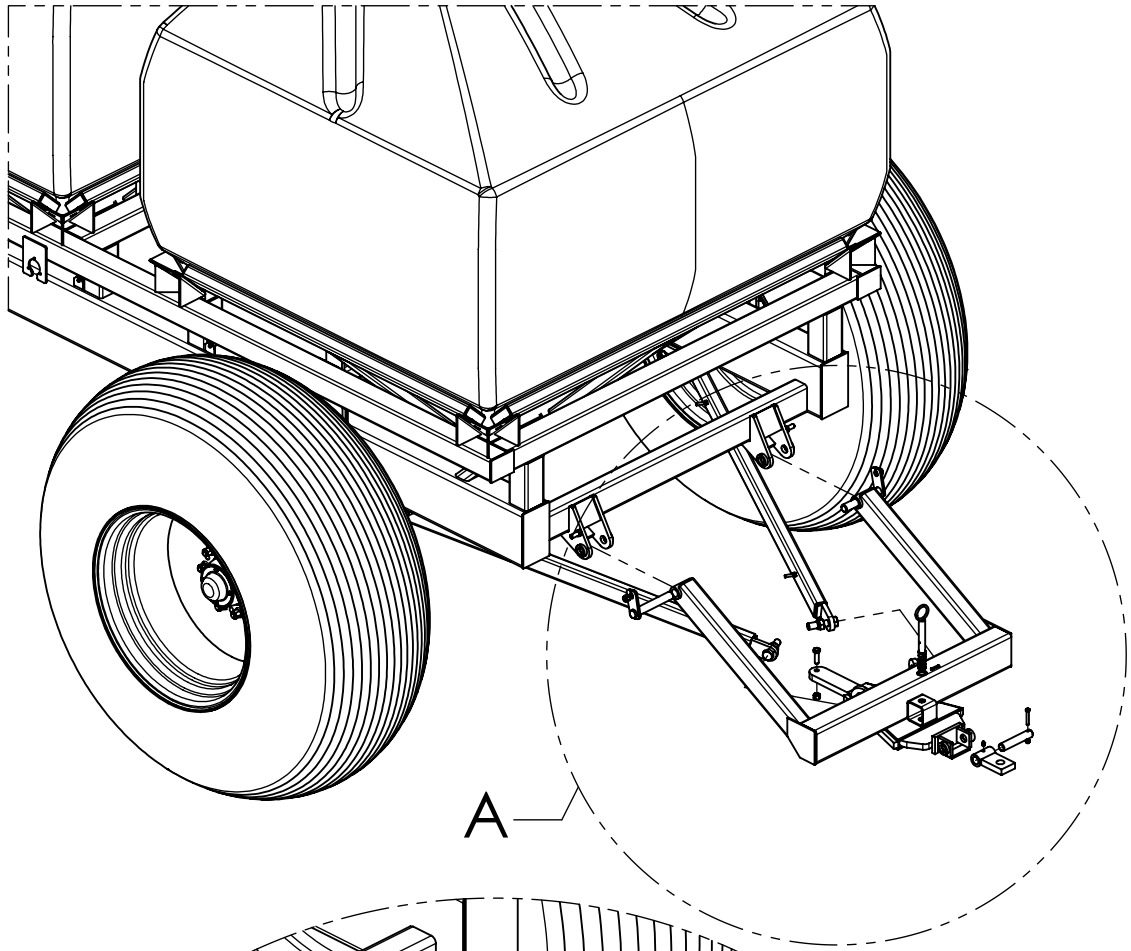


Tow Between Toolbox Installation

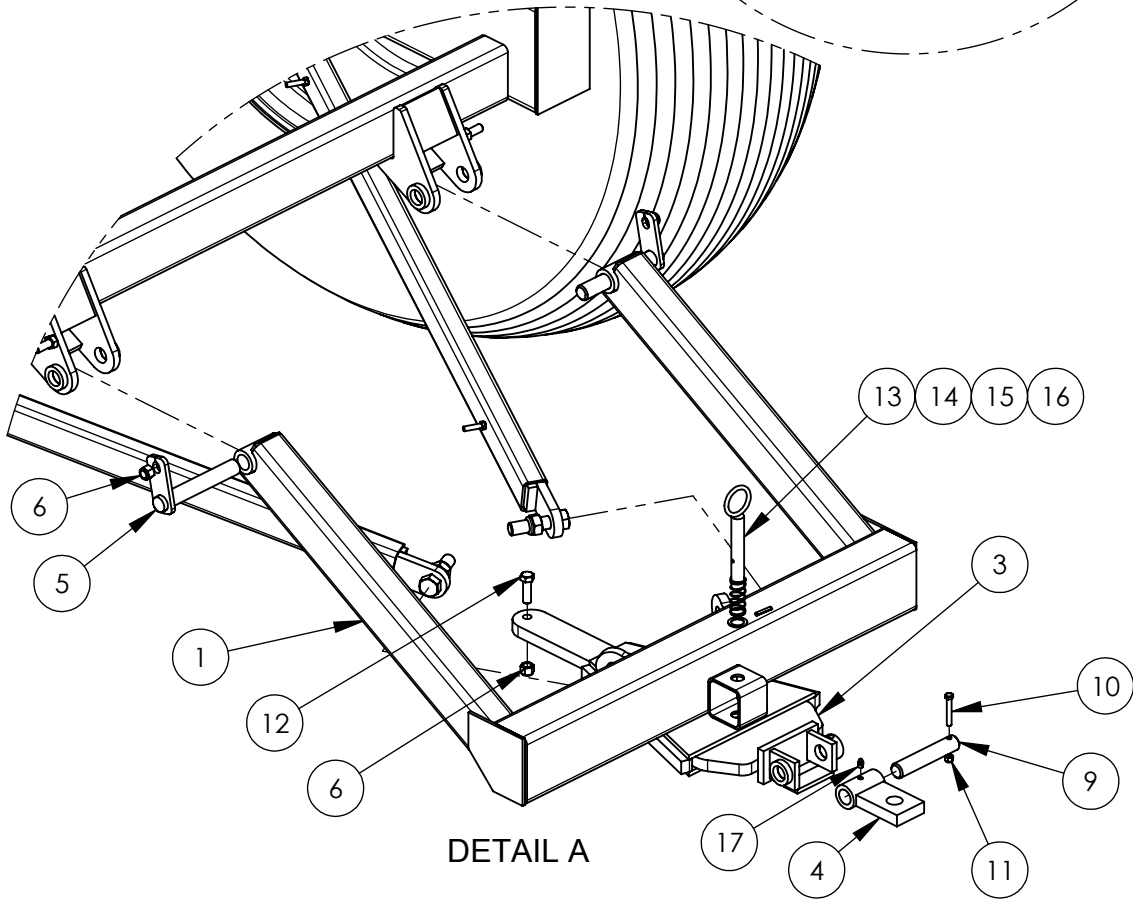
ITEM	QTY	PART NO.	DESCRIPTION
1	1	A60100	AIR SEEDER TOOLBOX
2	2	L01327	1/4" x 2" x 12 1/2" FB
3	3	BU1030	U-BOLT 5/8" x 3" x 4 1/2"
4	6	BN10L	5/8" NYLOCK NUT NC
5	1	L00539	HYDRAULIC VALVE MOUNT PLATE
6	1	HV1171	PRESSURE REDUCING VALVE
7	2	B0425	1/4" x 2 1/2" BOLT
8	2	BN04L	1/4" LOCK NUT
9	4	BC0510	5/16" NC x 1" CARRIAGE BOLT GR.2 PLATED
10	4	BN05L	5/16" LOCK NUT



Tow Behind Rear Tow Hitch

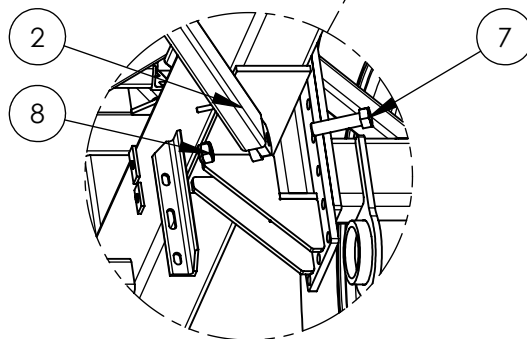
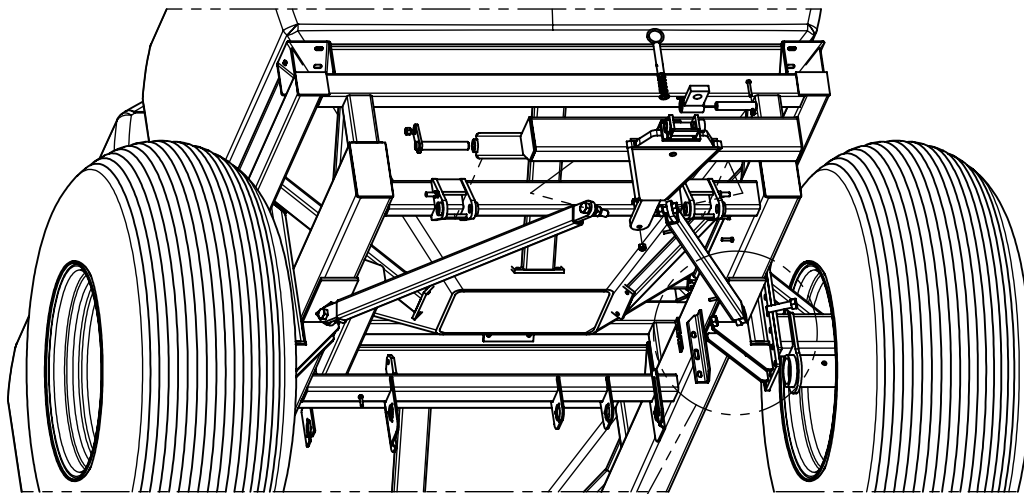


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Tow Behind Rear Tow Hitch

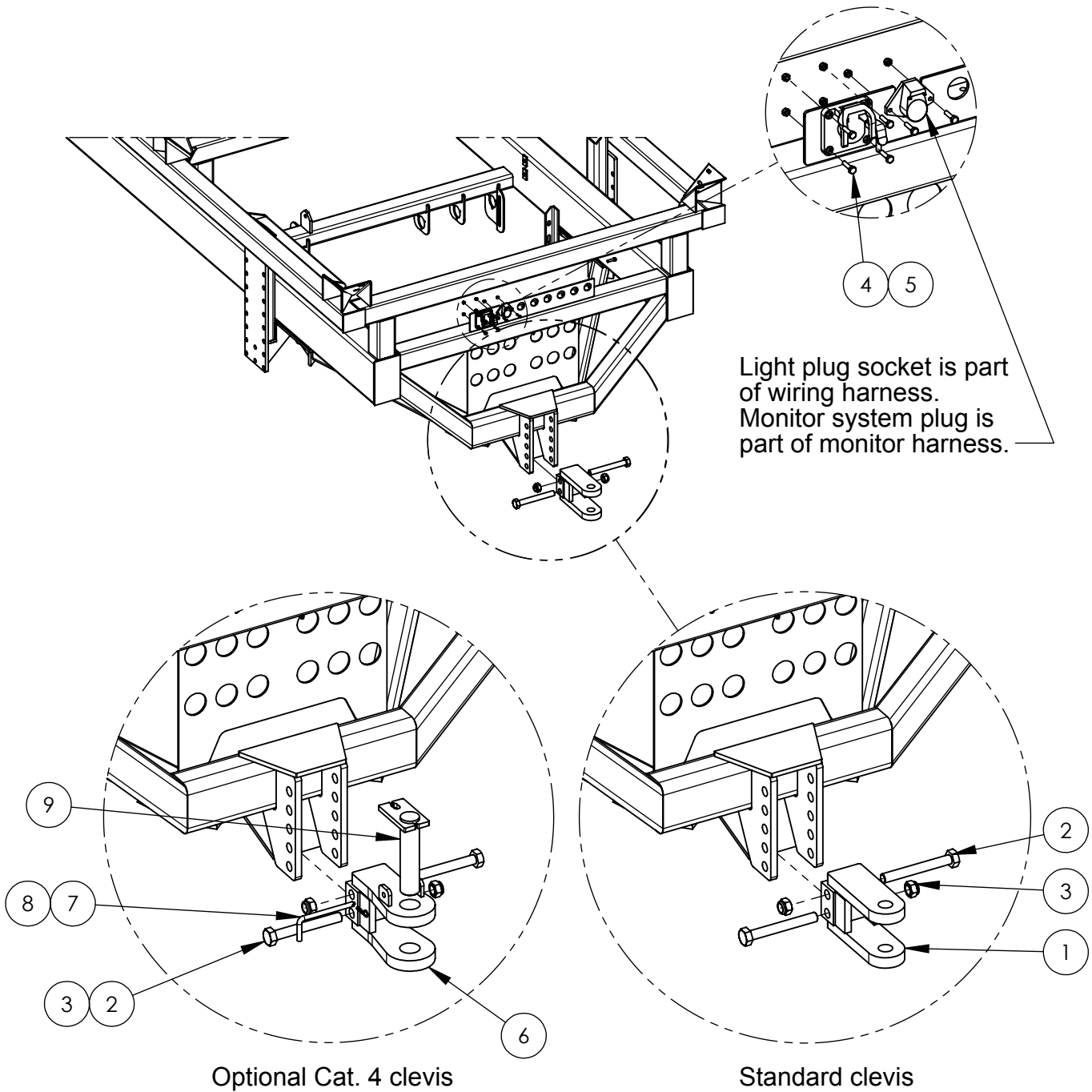
ITEM	QTY	PART NO.	DESCRIPTION
1	1	T01022	TBH AIR CART REAR TOW HITCH
2	2	C4505	65 1/2" PIN-PIN BRACE
3	1	C10859	TOW HITCH INSERT
4	1	T00328	AIR SEEDER TOW HITCH CLEVIS
5	2	GPH2000734F	1 1/4" x 7 3/4" LG. AXLE PIN - HARDENED
6	3	BN10L	5/8" NYLOCK NUT NC
7	4	B1640	1"NC x 4" BOLT
8	4	BN16L	1-8 NC NYLOCK NUT
9	1	GP2000612B06	1 1/4" x 6 1/2" LG. PIN - 1 HOLE
10	1	B0625	3/8" X 2 1/2" LG. GRADE 5
11	1	BN06L	3/8"-16NC LOCK NUT
12	1	B1020	5/8"NC x 2" HEX BOLT
13	1	GPSPEC16C1000	RING & WASHER TOW HITCH SPRING PIN
14	1	C1072	TOW HITCH PIN SPRING
15	1	GM26	1" MACHINE BUSHING
16	1	BSR0415	1/4 X 1 1/2" ROLL PIN
17	1	GF1610	1/8" NPT GREASE FITTING



Brace Attachment
4 Places

Tow Between Rear Tow Hitch

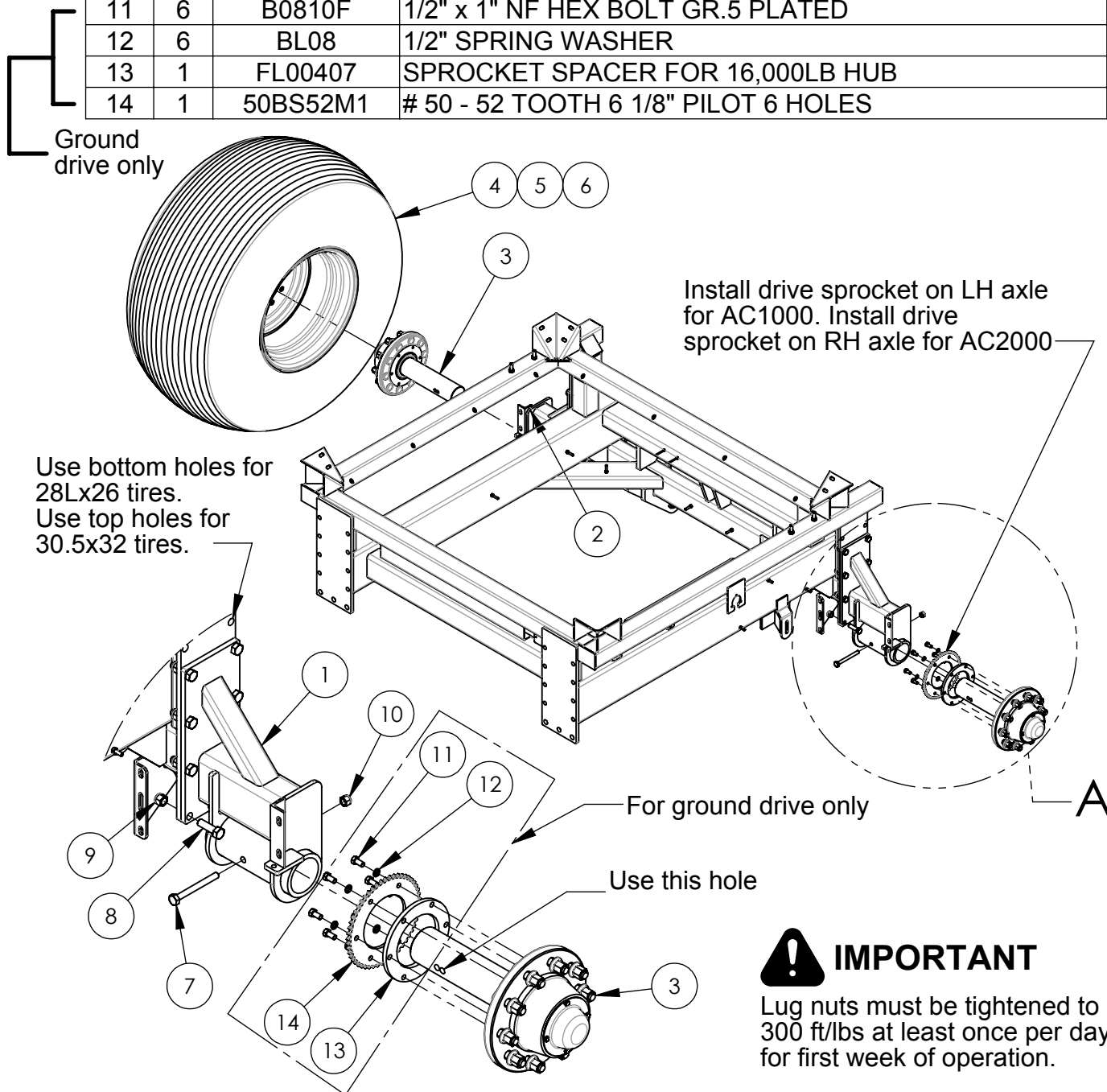
ITEM	QTY	PART NO.	DESCRIPTION
1	1	T00682	TOW BETWEEN AIR CART TOW HITCH CLEVIS
2	2	B1680H	1" x 8" NC HEX BOLT GR. 8
3	2	BN16L	1-8 NC NYLOCK NUT
4	6	B0410	1/4" NC x 1 1/2" HEX BOLT
5	6	BN04L	1/4" LOCK NUT
6	1	T01256	CAT 4 TOW BETWEEN AIR CART TOW HITCH CLEVIS
7	1	T00501	1/2" x 9" BLANK LENGTH L-PIN
8	1	GHP11	#11 HAIR PIN
9	1	GPSPEC32009	∅2" x 9" FLATBAR PIN



16,000 LB Axle Assembly

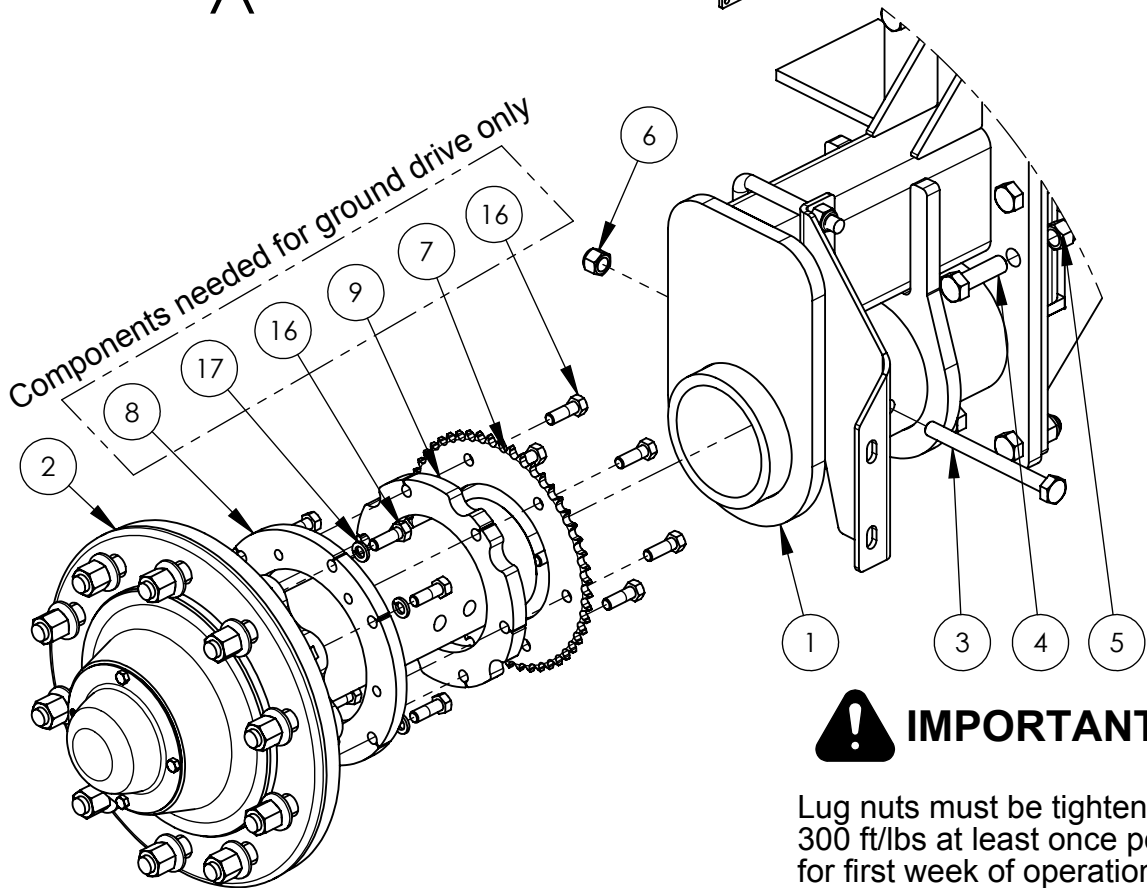
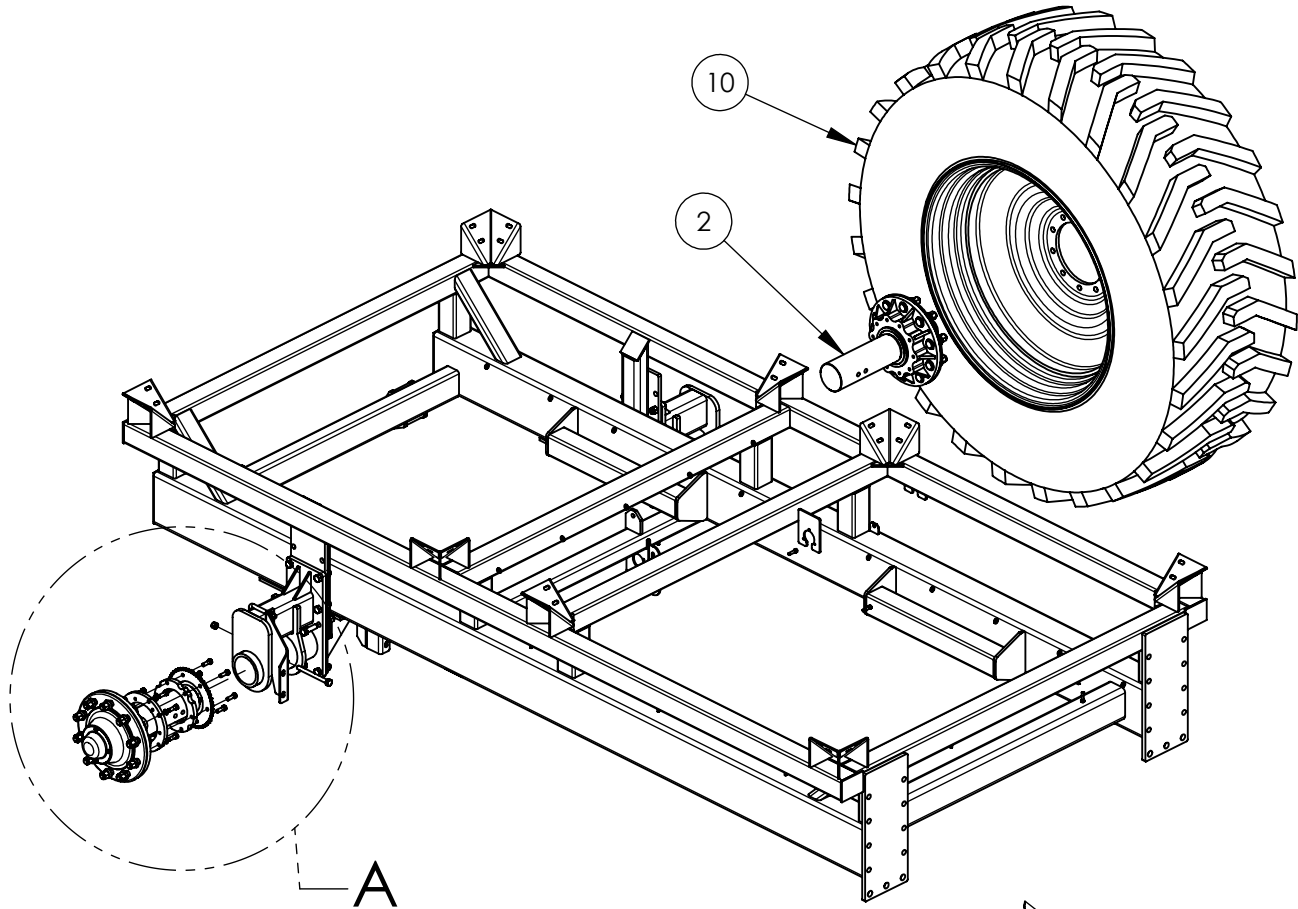
16,000 LB axle is optional on AC1000 and standard on AC2000

ITEM	QTY	PART NO.	DESCRIPTION
1	1	T00867L	16,000 LB TANK AXLE - LH
2	1	T00867R	16,000 LB TANK AXLE - RH
3	2	GW16000A	16,000 LB HUB AND SPINDLE ASSY - 10 BOLT
4	2	GW282610	28L x 26 DIAMOND LUG 16 PLY 10 BOLT WHEEL
5	2	GW28R2610	28L x 26 DIAMOND LUG 16 PLY RADIAL 10 BOLT WHEEL
6	2	GW305R32P16	30.5 x 32R x 16PLY RADIAL TIRE
7	2	B1060	5/8 x 6" HEX BOLT GR 5
8	18	B1225	3/4"NC x 2-1/2" HEX BOLT
9	18	BN12L	3/4" NC NYLOCK NUT
10	2	BN10L	5/8" NYLOCK NUT NC
11	6	B0810F	1/2" x 1" NF HEX BOLT GR.5 PLATED
12	6	BL08	1/2" SPRING WASHER
13	1	FL00407	SPROCKET SPACER FOR 16,000LB HUB
14	1	50BS52M1	# 50 - 52 TOOTH 6 1/8" PILOT 6 HOLES



20,000 LB Axle Assembly

20,000 LB axle is optional on AC2000



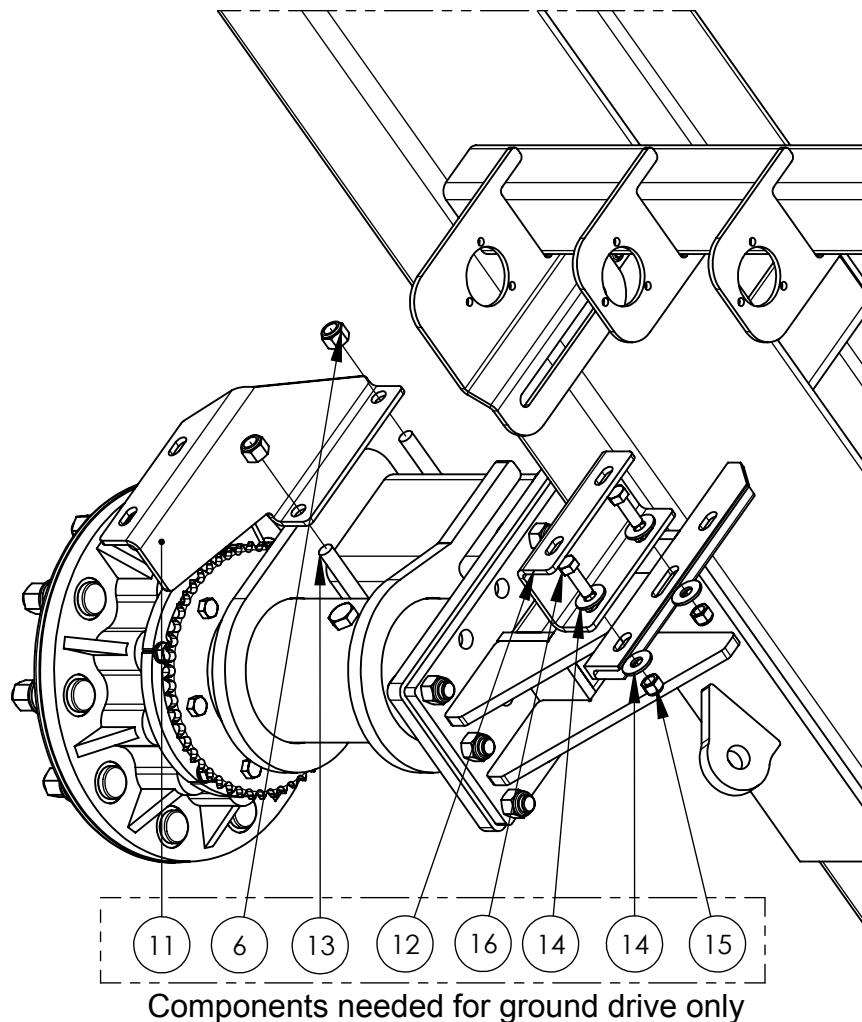
! IMPORTANT

Lug nuts must be tightened to 300 ft/lbs at least once per day for first week of operation.

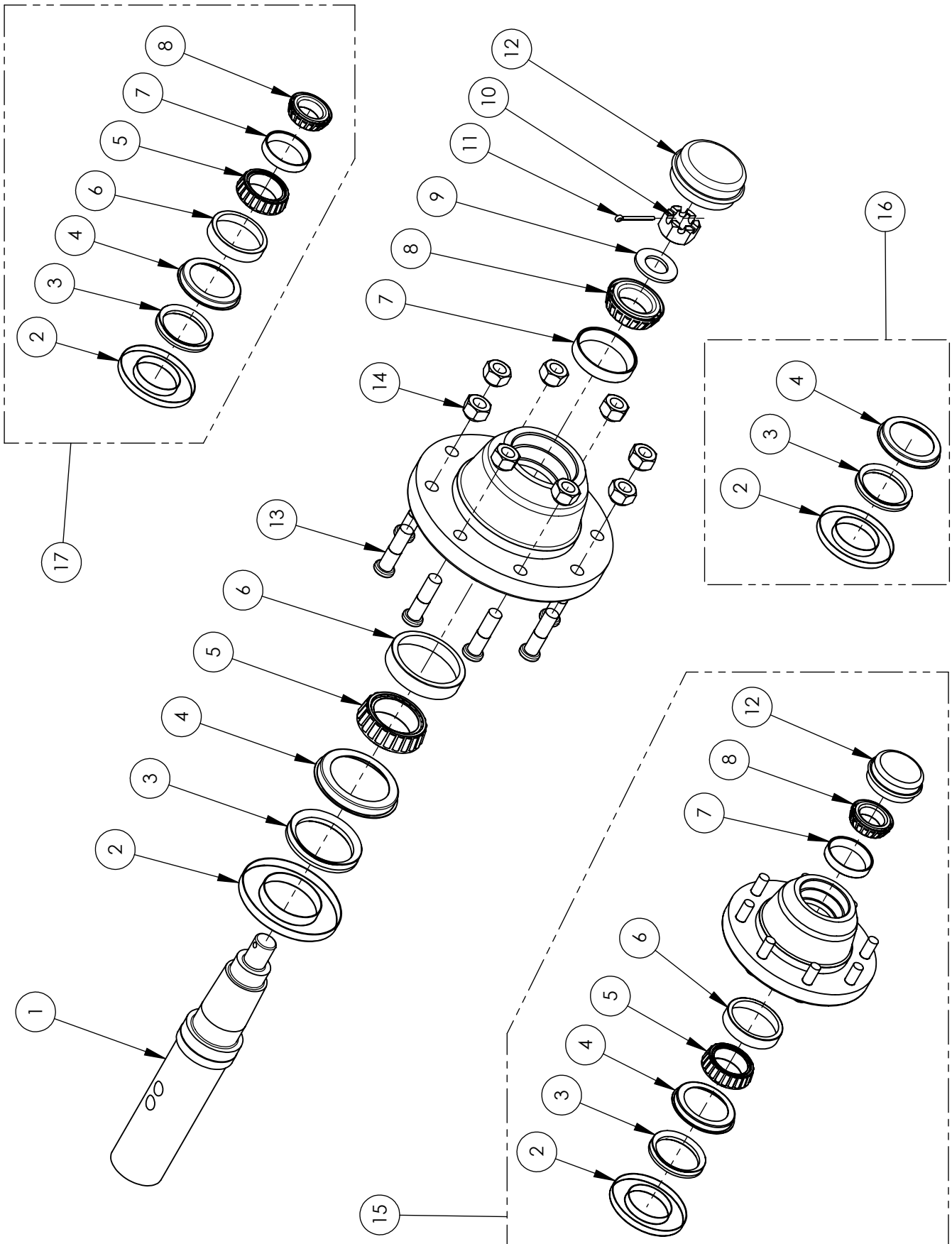
20,000 LB Axle Assembly

20,000 LB axle is optional on AC2000

ITEM	QTY	PART NO.	DESCRIPTION
1	2	T01112	20,000 LB TANK AXLE
2	2	GW20000A	20,000 LB HUB AND SPINDLE ASSY - 10 BOLT
3	2	B1070	5/8 x 7" HEX BOLT GR 5
4	18	B1225	3/4"NC x 2-1/2" HEX BOLT
5	18	BN12L	3/4" NC NYLOCK NUT
6	4	BN10L	5/8" NYLOCK NUT NC
7	1	50BS52M1	# 50 - 52 TOOTH 6 1/8" PILOT 6 HOLES
8	1	FL00714	20,000 LB HUB GROUND DRIVE ADAPTOR
9	1	FL00715	20,000 LB GROUND DRIVE SPACER
10	2	GW71070R42	710/70R42 TRACTOR LUG RADIAL RIM & TIRE ASSY
11	1	FL00716	20,000 LB HUB GROUND DRIVE BEARING HANGER
12	1	FL00717	BEARING STAND-OFF FOR 20,000 LB HUB
13	1	BU1061	U-BOLT 5/8" x 6 1/16" x 5 1/2"
14	4	BF08	1/2" FLATWASHER
15	2	BN08L	1/2" NYLOCK NUT NC
16	14	B0815	1/2 X 1 1/2" GR. 5 PLATED BOLT
17	6	BL08	1/2" SPRING WASHER



8,000 LB Hub and Spindle Assembly

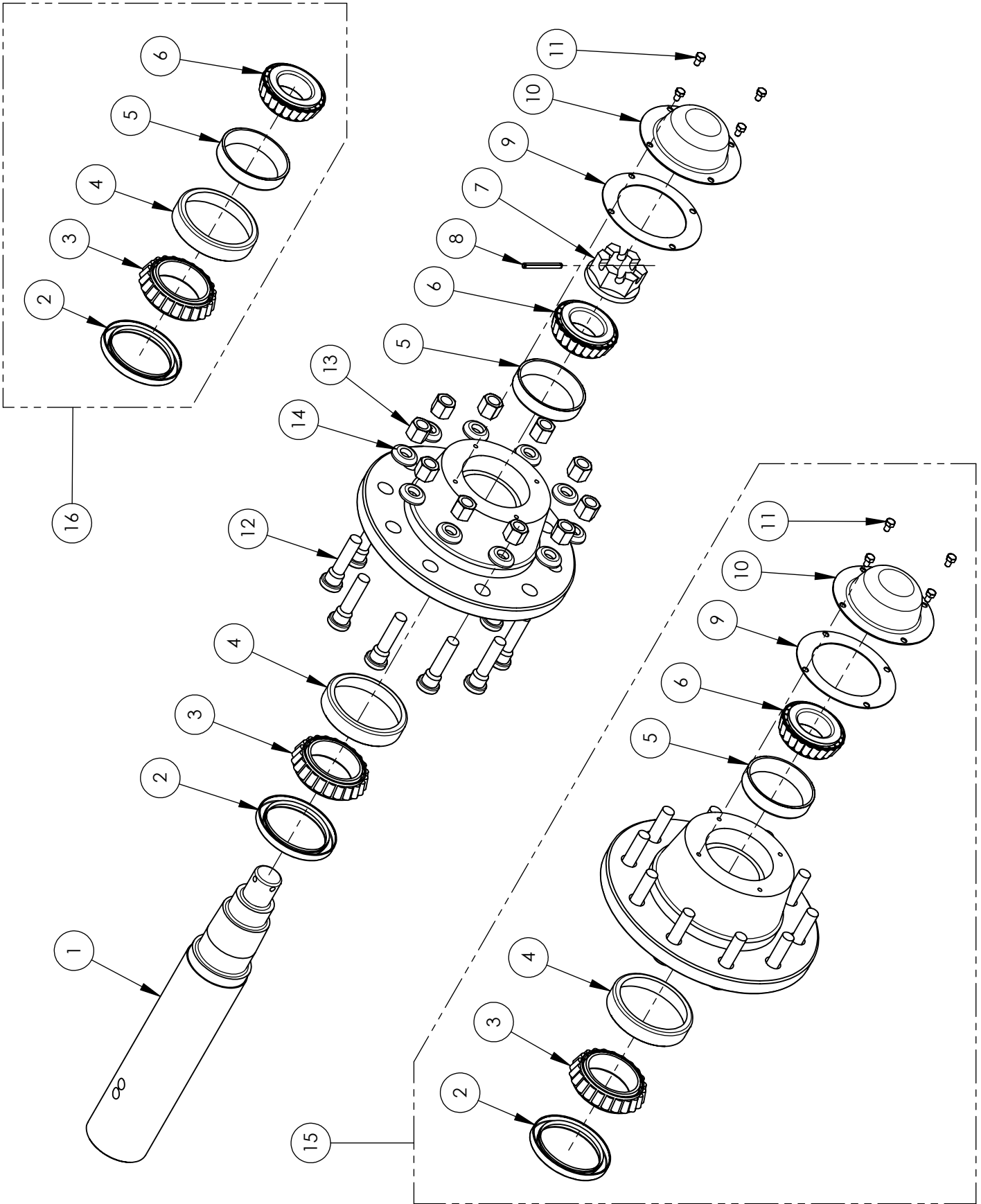


8,000 LB Hub and Spindle Assembly

ITEM NO.	QTY	PART NUMBER	DESCRIPTION
1	1	GW8014	SPINDLE, 8 000 LBS.
2	1	GW8110VW	8000 LB V-SEAL GRASS WRAP GUARD
3	1	GW8110VS	8000 LB V-SEAL
4	1	GW8110VC	8000 LB V-SEAL COUNTERFACE
5	1	GB506849	8000 INNER CONE
6	1	GB506810	8000 INNER CUP
7	1	GB501310	8000 OUTER CUP
8	1	GB501349	8000 OUTER CONE
9	1	GW8108	1" SPINDLE WASHER
10	1	BN16S	1" SLOTTED HEX NUT
11	1	BSC0317	3/16" x 1 3/4" COTTER PIN
12	1	GW8112	8000 DUST CAP
13	8	BW1020	5/8" x 2" PRESS-IN WHEEL STUD
14	8	BW10	5/8" WHEEL LUG NUT
15	1	GW8000	8000 LB HUB WITH BEARINGS, V-SEAL, & DUSTCAP
16	1	GW8110V	8000 LB V-SEAL KIT
17	1	GW8111V	8000 LB BEARING WITH V-SEAL KIT

Entire assembly available as part number GW8000A (includes hub, spindle, bearings, seal, dust cap, and hardware).

16,000 LB Hub and Spindle Assembly



16,000 LB Hub and Spindle Assembly

ITEM NO.	QTY.	PART NO.	DESCRIPTION
1	1	GW16022	CENTRE SPINDLE 16 000 LBS x 22 1/2" LG
2	1	GW16110	16000 LB GREASE SEAL
3	1	GB47687	16000 LB INNER CONE
4	1	GB47620	16000 LB INNER CUP
5	1	GB39520	16000 LB OUTER CUP
6	1	GB39585	16000 LB OUTER CONE
7	1	BN28SF	1 3/4" NF SLOTTED FLANGE NUT
8	1	BSR0527	5/16" x 2 3/4" ROLL PIN
9	1	GW16112S	16000 LB DUST CAP SEAL
10	1	GW16112	16000 LB DUST CAP
11	4	B0505	5/16"NC x 1/2" LG. HEX BOLT
12	10	BW1235	3/4" x 2 1/2" PRESS-IN WHEEL STUD
13	10	BW12A	3/4" WHEEL LUG NUT
14	10	BW12B	3/4" WASHER FOR WHEEL LUG NUT
15	1	GW16000	16000 LB HUB WITH BEARINGS, SEAL, & DUST CAP
16	1	GW16111	16000 LB BEARING KIT WITH REGULAR GREASE SEAL

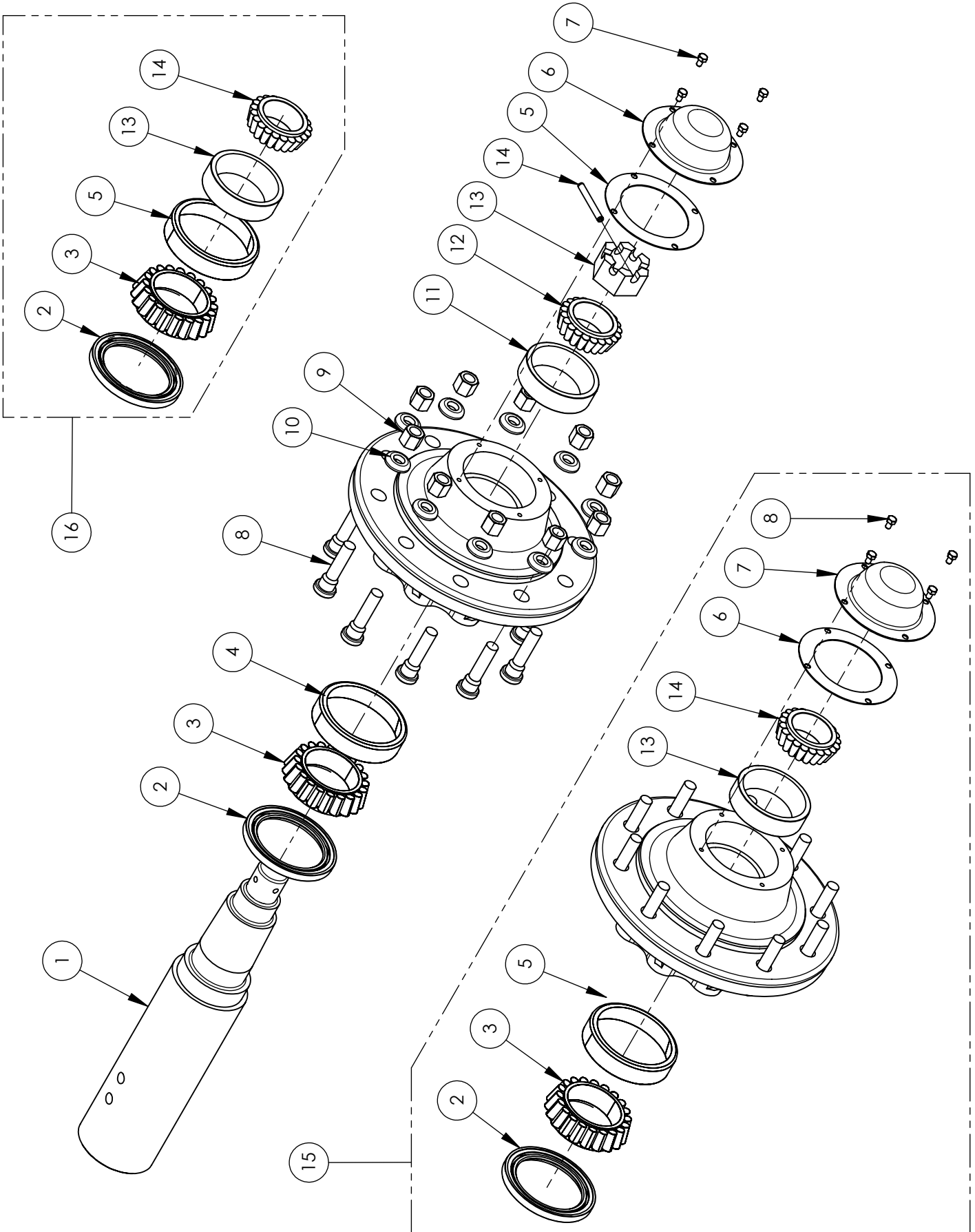
Entire assembly available as part number GW16000A (includes hub, spindle, bearings, seal, dust cap, and hardware).



IMPORTANT

Lug nuts must be tightened to 300 ft/lbs at least once per day for first week of operation.

20,000 LB Hub and Spindle Assembly



20,000 LB Hub and Spindle Assembly

ITEM	QTY	PART NO.	DESCRIPTION
1	1	GW20022	CENTRE SPINDLE 20 000 LBS x 22 1/2" LG
2	1	CR43771	20,000lb Grease Seal
3	1	HM218248	20,000LB INNER CONE
4	1	HM218210	20000 LB INNER CUP
5	1	GW16112S	16000 LB DUST CAP SEAL
6	1	GW16112	16000 LB DUST CAP
7	4	B0505	5/16"NC x 1/2" LG. HEX BOLT
8	10	BW1235	3/4" x 2 1/2" PRESS-IN WHEEL STUD
9	10	BW12A	3/4" WHEEL LUG NUT
10	10	BW12B	3/4" WASHER FOR WHEEL LUG NUT
11	1	HM212010	20000 LB OUTER CUP
12	1	HM212049	20000 LB OUTER CONE
13	1	BN32SF	2" NF SLOTTED FLANGE NUT
14	1	BSR0630	3/8" x 3" ROLL PIN

Entire assembly available as part number GW20000A (includes hub, spindle, bearings, seal, dust cap, and hardware).

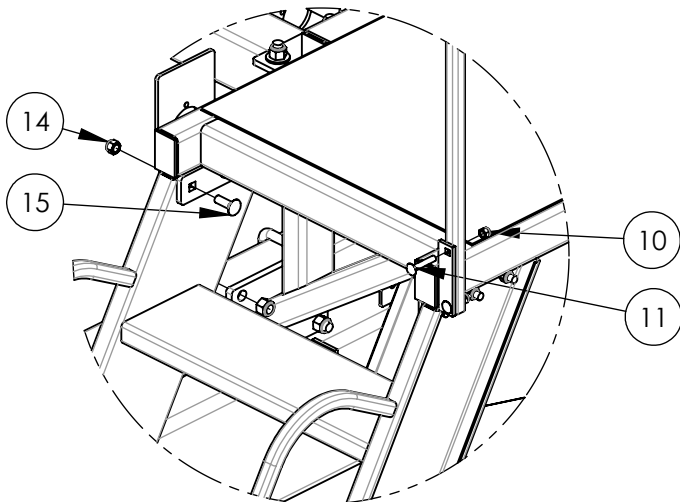
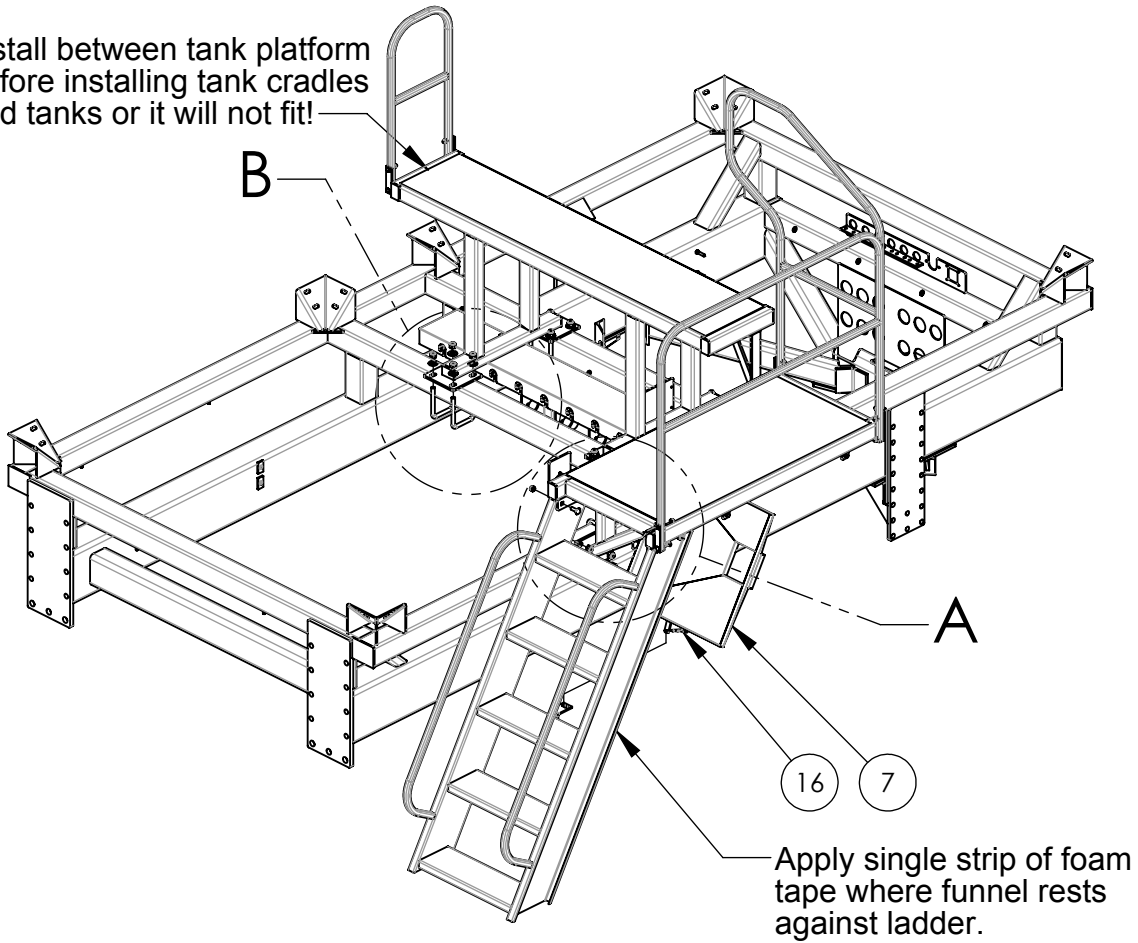


IMPORTANT

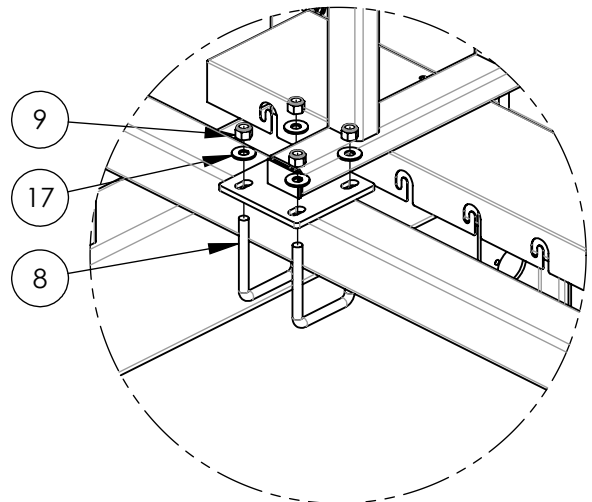
Lug nuts must be tightened to 300 ft/lbs at least once per day for first week of operation.

Platform and Ladder

Install between tank platform
before installing tank cradles
and tanks or it will not fit!



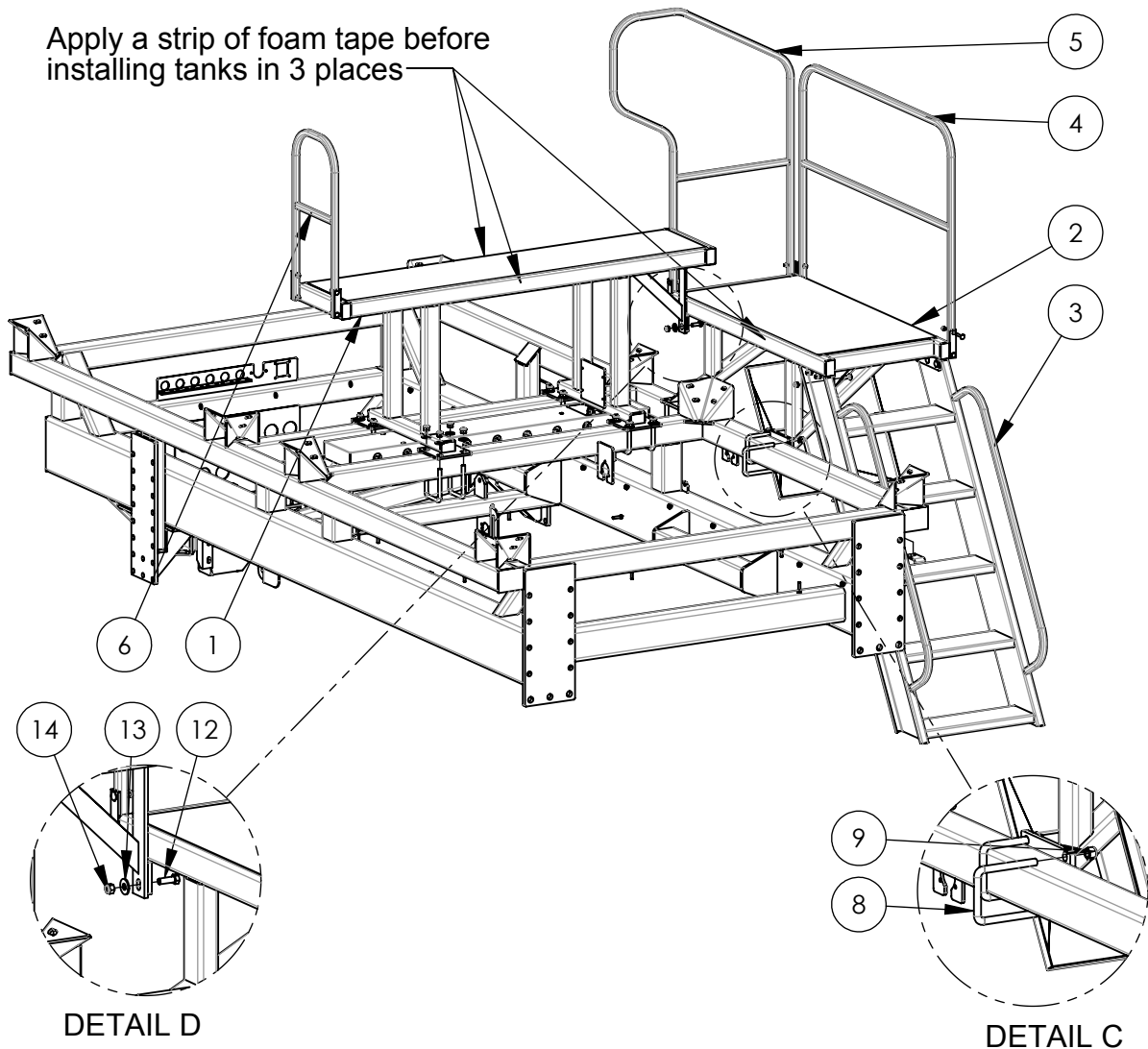
DETAIL A



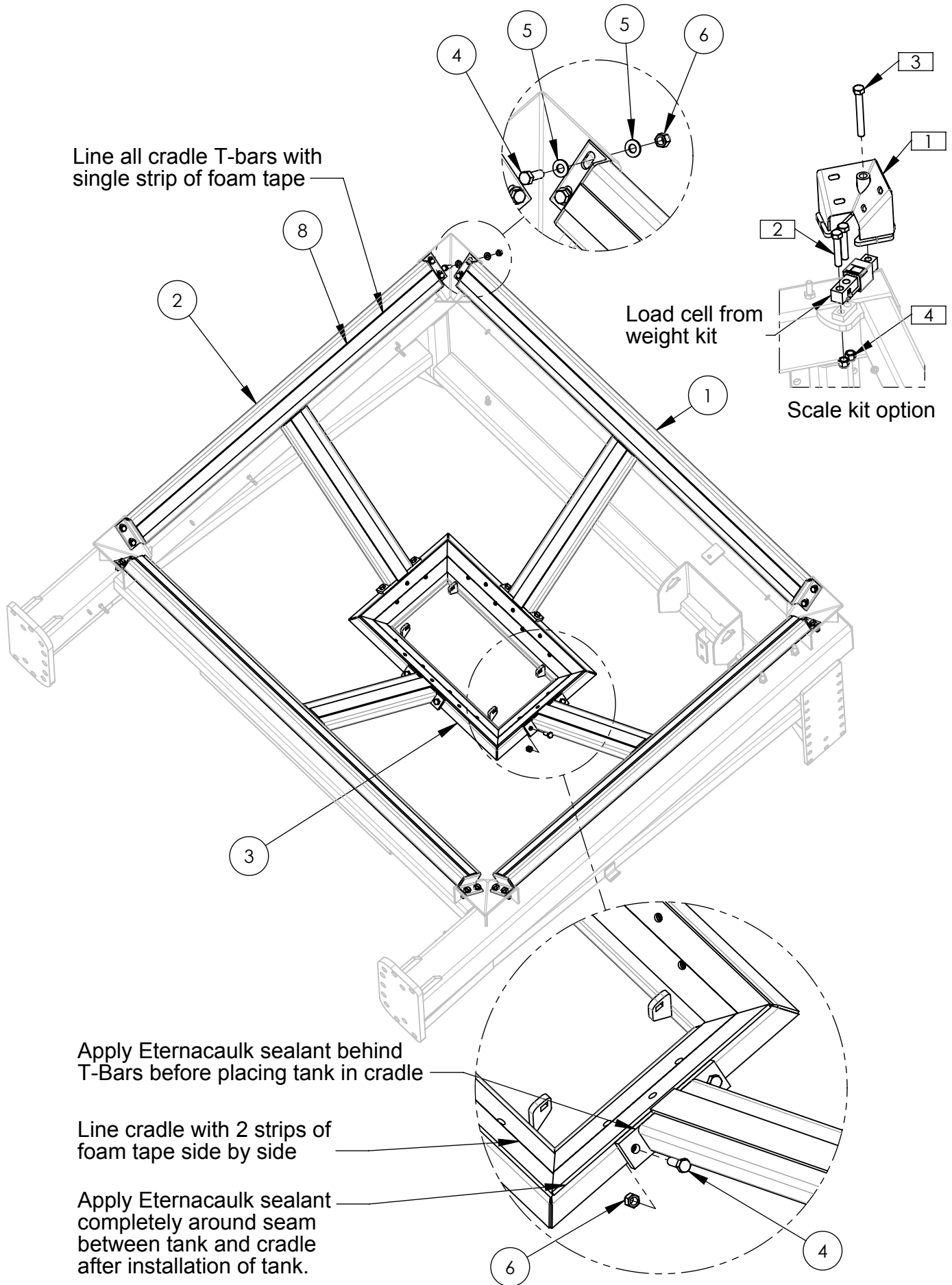
DETAIL B

Platform and Ladder

ITEM	QTY	PART NO.	DESCRIPTION
1	1	T00994	BETWEEN TANK RAISED PLATFORM
2	1	T00973	PLASTIC TANK SIDE PLATFORM
3	1	T00559	LADDER FOR 115 BUSHEL MOUNTED TANK
4	1	T00910	SIDE RAIL FOR DBL MOUNTED TANK PLATFORM
5	1	T01000	END RAIL FOR SIDE PLATFORM
6	1	T01001	RAIL FOR BETWEEN TANK PLATFORM
7	1	T01052	AIR TANK CALIBRATION FUNNEL
8	12	BU1040	5/8 x 4 x 5-1/2" U-BOLT
9	24	BN10L	5/8" NYLOCK NUT NC
10	12	BN06L	3/8"-16NC LOCK NUT
11	12	BC0620	3/8"NC x 2" LG. CARRIAGE BOLT PLATED
12	1	B0815	1/2" x 1 1/2" HEX BOLT
13	1	BF08	1/2" FLATWASHER
14	7	BN08L	1/2" NYLOCK NUT NC
15	6	BC0815	1/2NC x 2" CARRIAGE BOLT
16	1	GHP9	#9 HAIR PIN
17	16	BF10	5/8" FLAT WASHER
18	16	T00925	3/8" x 2" FOAM TAPE



Plastic Tank Cradle Assembly



Plastic Tank Cradle Assembly

ITEM NO.	QTY.	PART NO.	DESCRIPTION
1	2	T00811	74" T-BAR SUPPORT
2	2	T00812	62" T-BAR SUPPORT
3	1	T00530	PLASTIC TANK CRADLE WLDT
4	24	B0815	1/2 X 1 1/2" GR. 5 PLATED BOLT
5	32	BF08HS	1/2" HARD STRUCTURAL FLAT WASHER
6	24	BN08L	1/2" NYLOCK NUT NC
7	20	BC0815S	1/2"NC x 1 1/2" LG. CARRIAGE BOLT - STAINLESS
8	1	T00925	3/8" x 2" FOAM TAPE
9	1	T01359	ETERNACAUWK SEALANT
10	20	BN08SS	1/2" HEX NUT NC STAINLESS STEEL
11	20	BL08	1/2" SPRING WASHER

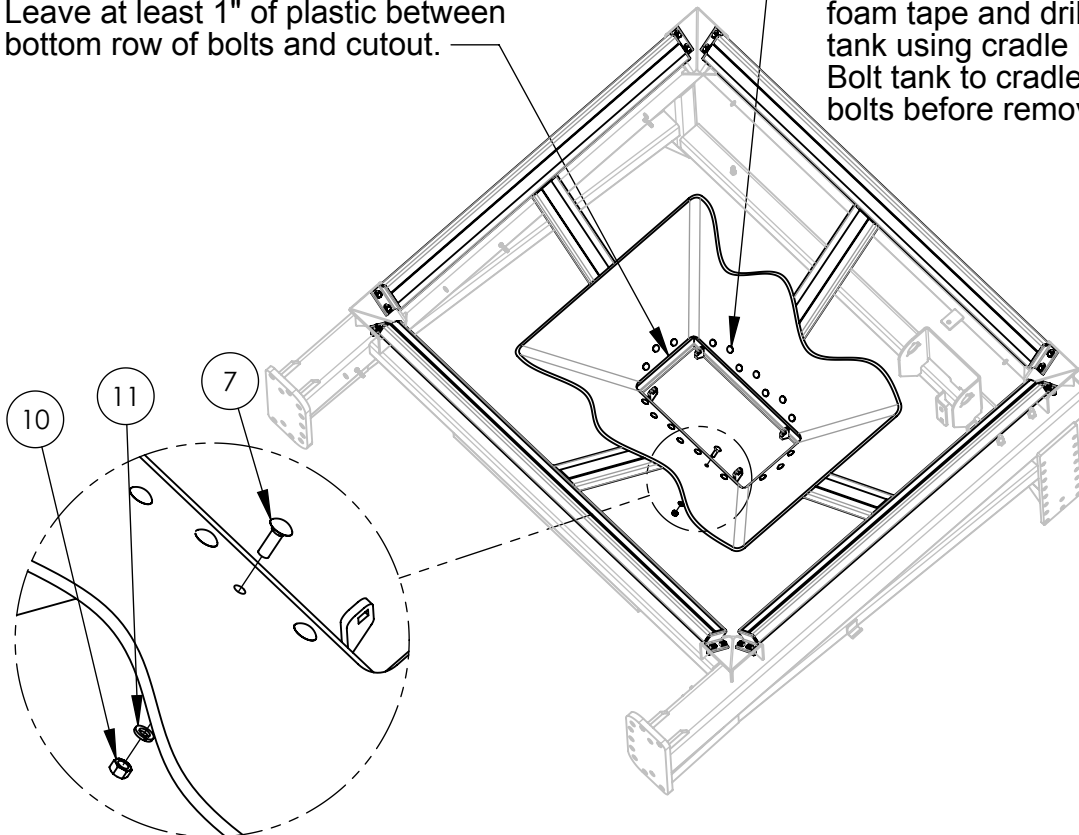
Scale kit option (square balloons)			
ITEM	QTY	PART NO.	DESCRIPTION
1	4	T01199	LOAD CELL CORNER WELDMENT FOR
2	8	B1240	3/4"NC x 4" LG. HEX BOLT GR. 5
3	4	B1260F	3/4"NF x 6" LG. HEX BOLT GR. 5 PLATED
4	8	BN12L	3/4" NC NYLOCK NUT

NOTE:

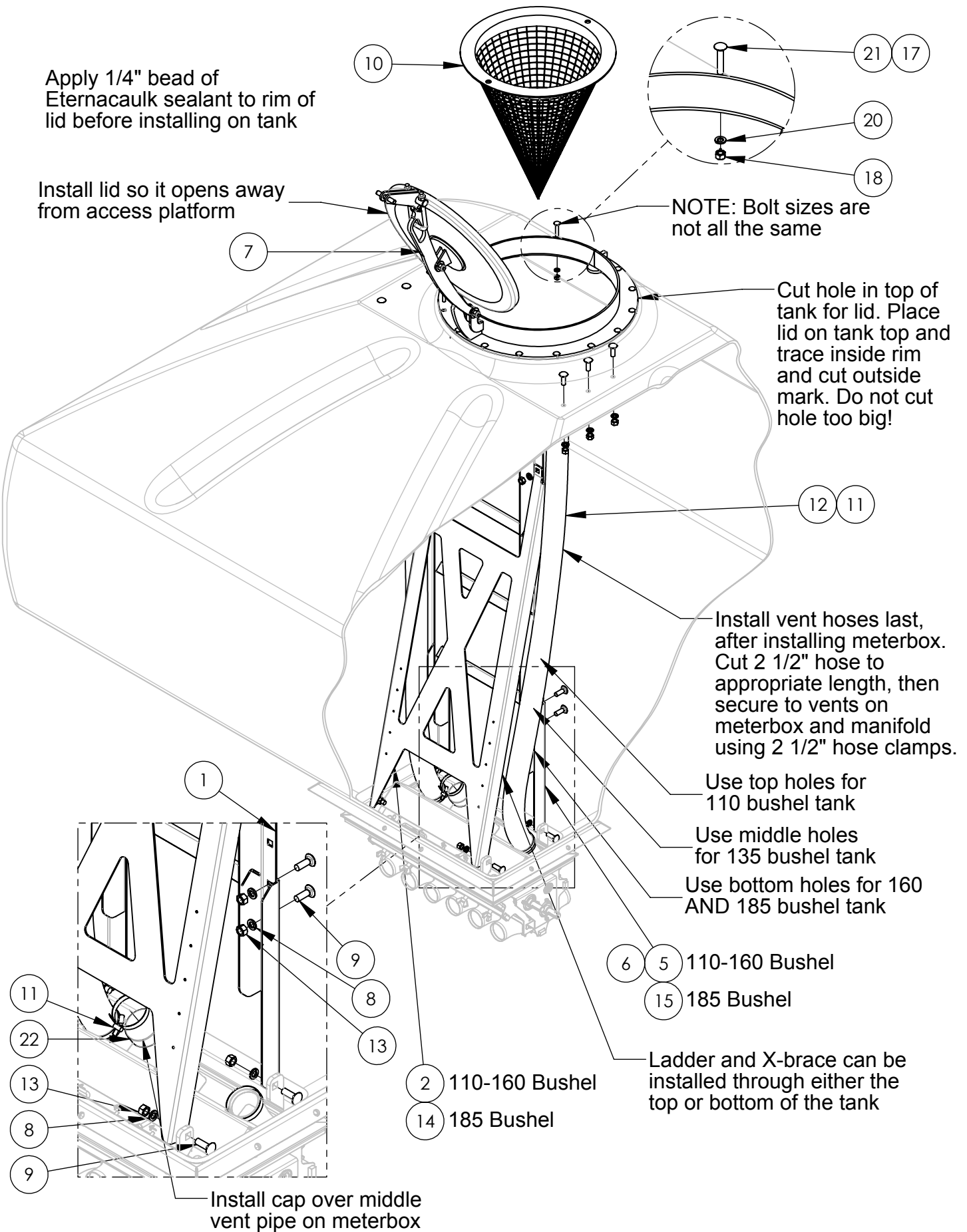
2 tank machines will use double the quantity of cradle assembly & scale parts.
3 tank machines will use triple the quantity of cradle assembly & scale parts.

Cut out bottom of tank to match cradle.
Leave at least 1" of plastic between
bottom row of bolts and cutout.

After cutting bottom of tank, position
tank in cradle. CAREFULLY apply
weight to top of tank to compress
foam tape and drill 1/2" holes through
tank using cradle holes as a guide.
Bolt tank to cradle using carriage
bolts before removing weight.



Plastic Tank Inner Ladder Parts

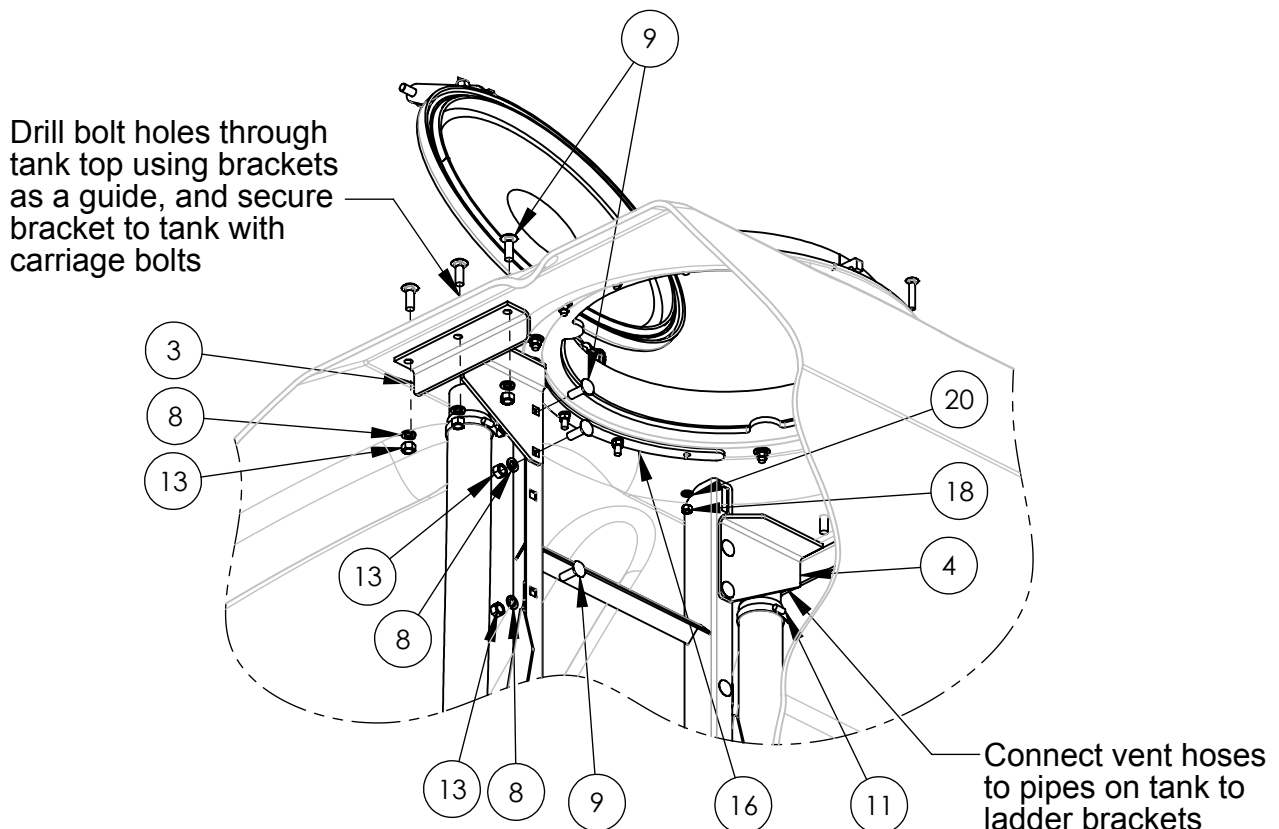


Plastic Tank Inner Ladder Parts

ITEM	QTY	PART NO.	DESCRIPTION
1	1	T01109	SS INTERIOR LADDER WELDMENT
*	2	FL00598	X-BRACE FOR INTERIOR LADDER 110,135,160 BU. TANKS
	3	T00897L	TANK TO LADDER MOUNT BRACKET - LH
	4	T00897R	TANK TO LADDER MOUNT BRACKET - RH
*	5	FL00626L	INTERIOR LADDER FOOT - LH
*	6	FL00626R	INTERIOR LADDER FOOT - RH
	7	T00305	ROUND LID ASSY COMPLETE W/HARDWARE
	8	BL08S	1/2" STAINLESS STEEL SPRING WASHER
	9	BC0815S	1/2"NC x 1 1/2" LG. CARRIAGE BOLT - STAINLESS
	10	T00369	ROUND LID WIRE MESH SCREEN
	11	T00023	2 1/2" HOSE CLAMP
	12	T00020	2 1/2" AIR SEEDER HOSE
	13	BN08SS	1/2" HEX NUT NC STAINLESS STEEL
+	14	FL00645	STAINLESS STEEL X BRACE FOR 185 BU. TANK
+	15	T01130	SS INTERIOR LADDER EXTENSION
	16	FL00710	1/4 INNER CIRCLE FOR STEEL LID 1/4" 304 SS
	17	BC0615S	3/8"NC x 1 1/2" CARRIAGE BOLT - SS
	18	BN06SS	3/8" HEXNUT STAINLESS STEEL
	19	BF06S	3/8" STAINLESS STEEL FLATWASHER
	20	BL06S	3/8" STAINLESS STEEL LOCK WASHER
	21	BC0620	3/8"NC x 2" LG. CARRIAGE BOLT PLATED
	22	T00500	2 1/2" AIR HOSE CAP
	23	T01359	ETERNACALK SEALANT

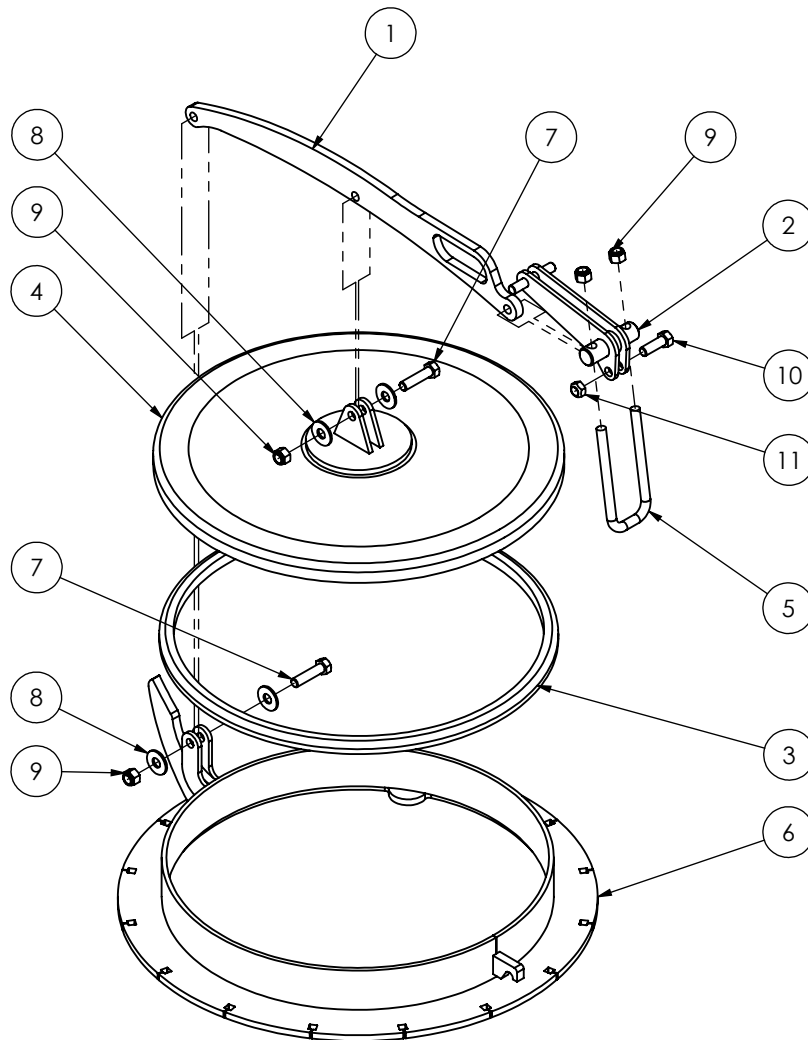
* - used on 110, 135, & 160 bushel tanks

+ - used on 185 bushel tanks



Steel Lid Assembly

ITEM	QTY	PART NO.	DESCRIPTION
1	1	FL00256	ROUND LID TOP PLATE
2	1	T00651	ROUND LID HANDLE WLDMNT
3	1	T00726	ROUND STEEL LID SEAL
4	1	T00645	ROUND LID WLDMNT
5	1	BU0824	1/2" x 2" ID x 6" U-BOLT
6	1	T00652	ROUND LID RIM WLDMNT
7	2	B0820	1/2"NC x 2" LG. HEX BOLT
8	4	BF08	1/2" FLATWASHER
9	4	BN08L	1/2" NYLOCK NUT NC
10	1	B0815	1/2 X 1 1/2" GR. 5 PLATED BOLT
11	1	BN08S	1/2"-13NC STOVER LOCK NUT

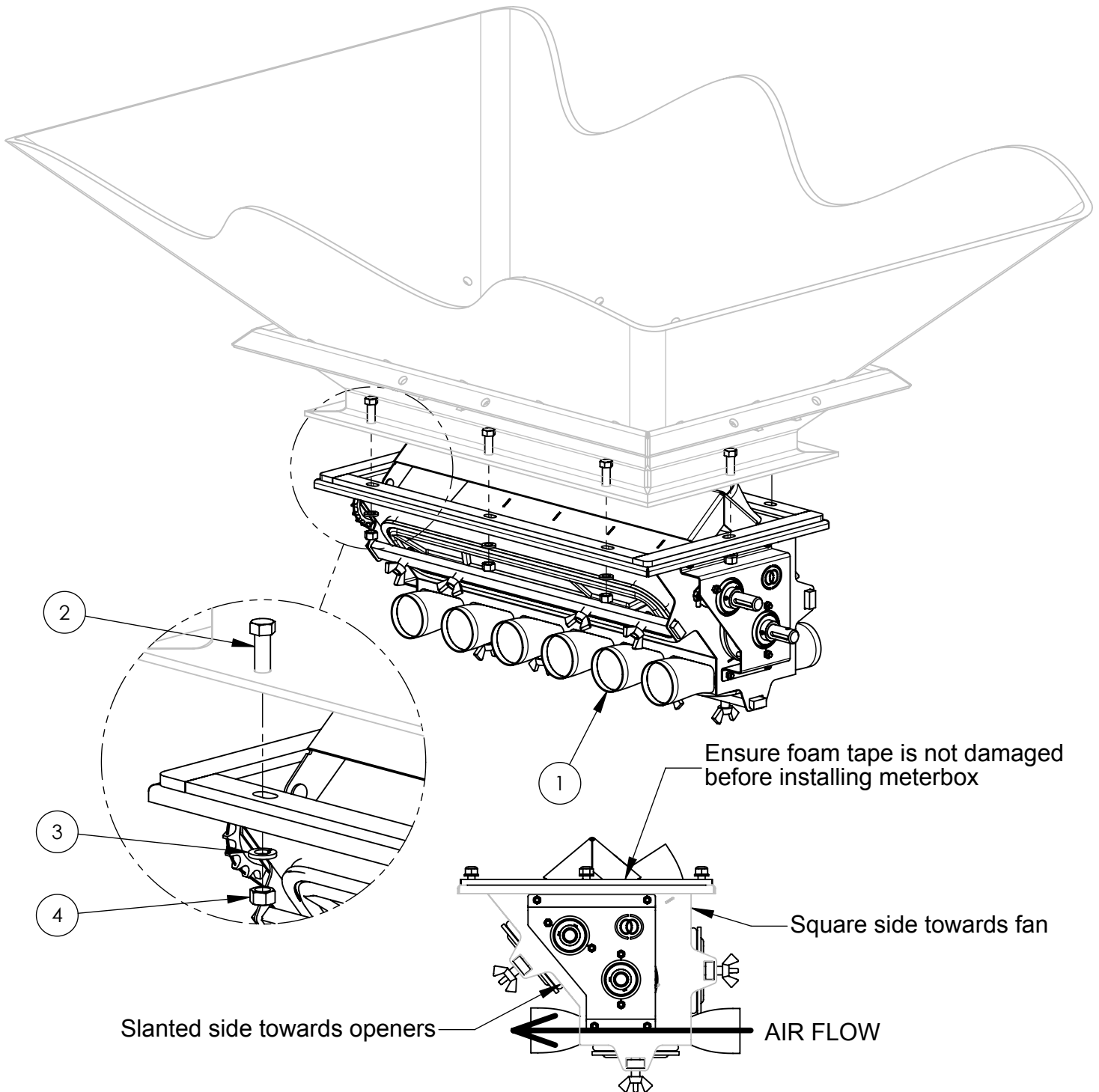


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Meterbox Installation

ITEM NO.	QTY.	PART NO.	DESCRIPTION
1	1	T00408	6 OUTLET METER BOX
2	8	B0712	7/16"NC x 1 1/4" LG. HEX BOLT GR. 5
3	8	BL07	7/16" LOCK WASHER
4	8	BN07	7/16" HEX NUT NC

For double mounted tank double quantities shown.

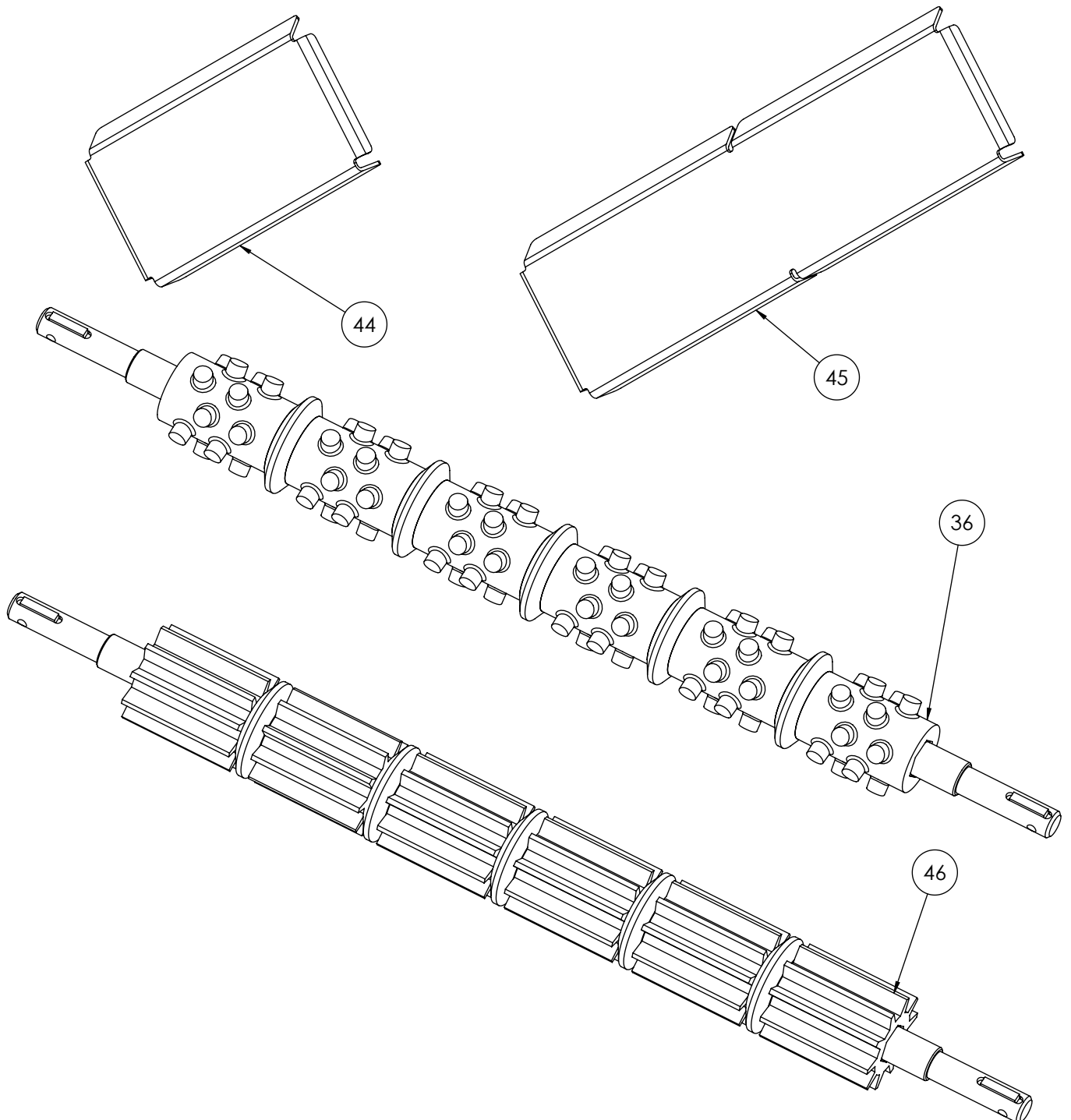


Meterbox Assembly

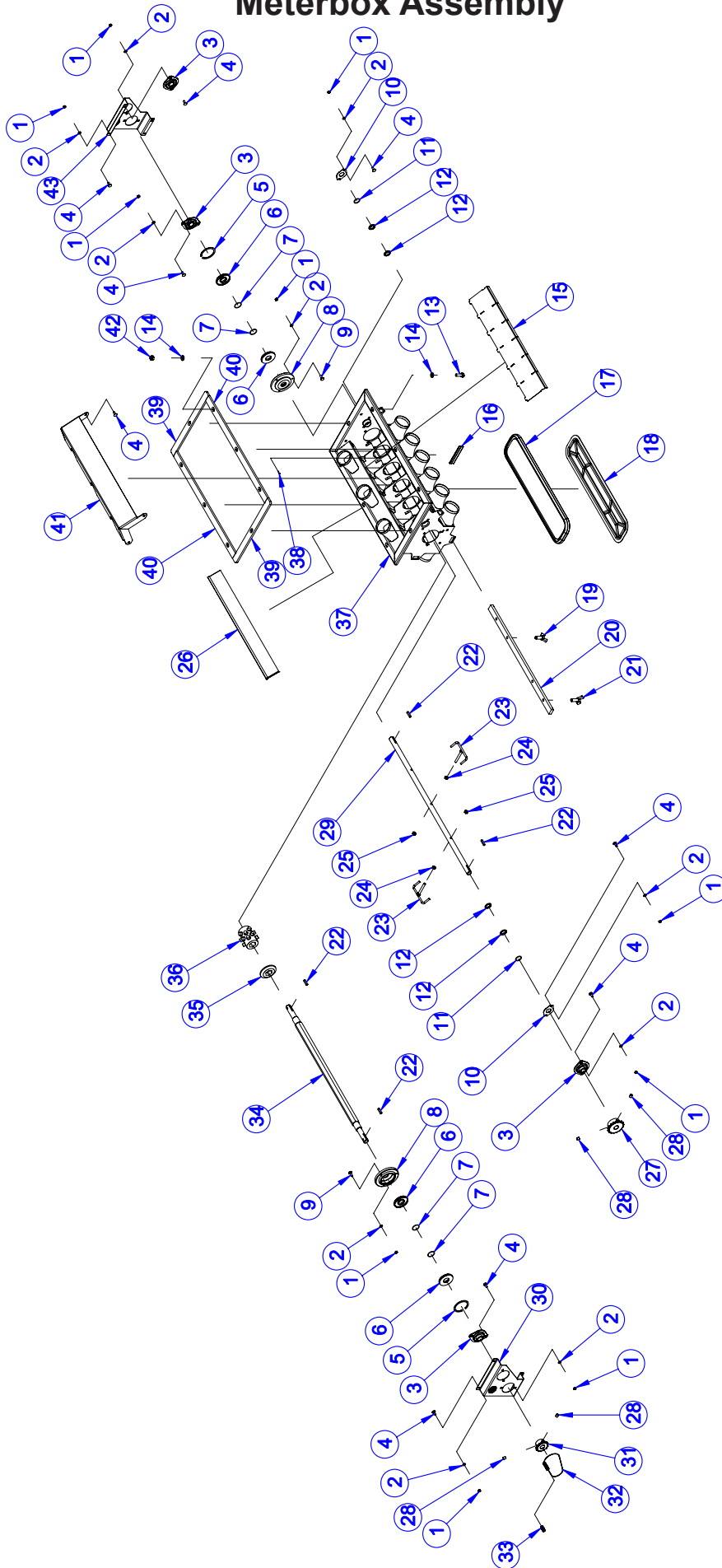
Optional equipment for the meterbox:

Single (44) or double (45) blocking plates can be used to convert a 6 outlet metering box down to a smaller number of outlets

Pegged rollers (36) can be used for a more consistent lower output and speed operation.
Fluted rollers (46) can be used for high output operation.



Meterbox Assembly

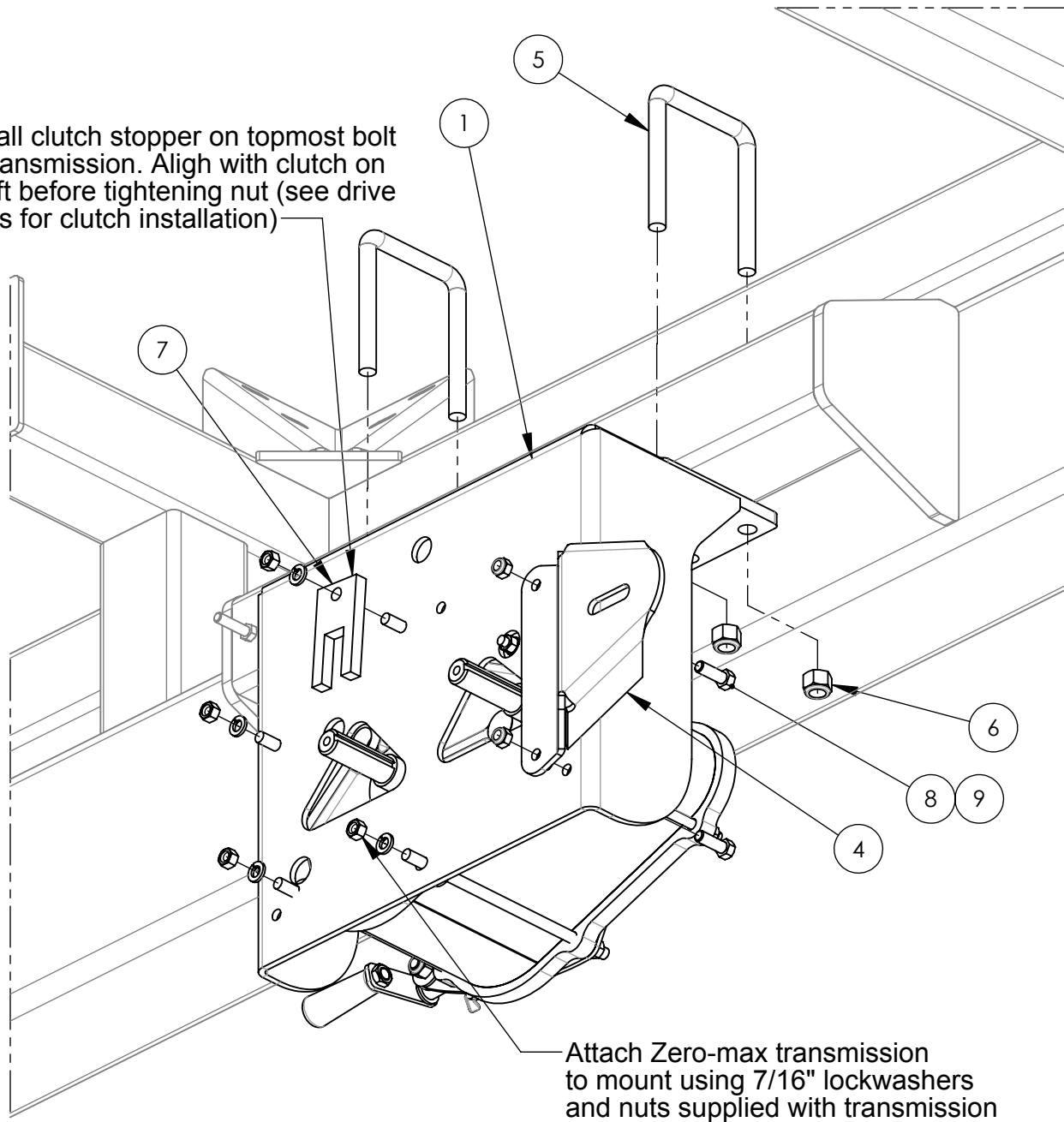


Meterbox Assembly

ITEM NO.	QTY.	PART NUMBER	DESCRIPTION
1	26	T00408AA	6mm Metric stainless steel nyloc nut
2	26	T00408AB	M6x1.6 Flat washer, Stainless Steel
3	4	T00408AC	SBPFL204 BEARING ASSEMBLY
4	20	T00408AD	6 x 16 Metric stainless steel cupsquare bolt, DIN 603
5	2	T00408AE	62mm Internal circlip, DIN 472
6	4	T00408AF	25 x 62 x 7 Rotary Shaft Seals
7	4	T00408AG	27x2 O - RING
8	2	T00408AH	TAPERED OILSEAL HOUSING
9	6	T00408AI	6 x 20 Metric stainless steel cupsquare bolt, DIN 603
10	2	T00408AJ	RETAINING PROFILE
11	2	T00408AK	22x2,5 O-RING
12	4	T00408AL	20 x 28 3.5/5 Metal wiper seal
13	8	T00408AM	10 x 30 Metric hexagon bolt, DIN 931
14	16	T00408AN	10mm Flat washer, DIN 125
15	1	T00408AO	BRUSH RETAINING WELDMENT FOR 6 OUTLET
16	5	T00408AP	STRAIGHT LIP GASKET, 100mm LONG
17	3	T00408AQ	Moulded gasket for 6 outlet box lid
18	3	T00408AR	6 Outlet Cover
19	6	T00408AS	LID WINGBOLT WELDMENT
20	3	T00408AT	COVER FLAT FOR 6-OUTLET METERBOX
21	6	T00408AU	LID PRESS WINGBOLT WELDMENT
22	4	T00408AV	6 x 6 Key, 27mm long
23	3	T00408AW	METERBOX STIRRER WELDMENT
24	3	T00408AX	8mm Metric stainless steel nut, DIN 934
25	3	T00408AY	8mm Metric stainless steel nyloc nut, DIN 985
26	1	T00408AZ	595mm BRUSH
27	1	T00408BA	1/2" Simplex sprocket, 17 teeth
28	4	T00408BB	10 x 10 Hexagon socket grub screw, DIN 916
29	1	T00408BC	STIRRING AXLE FOR 6-OUTLET METERBOX
30	1	T00408BD	BEARING PLATE, L/H
31	1	T00408BE	1/2" Simplex sprocket, 13 teeth
32	1	T00408BF	1/2" Simplex roller chain, British standard DIN 8187
33	1	T00408BG	1/2" Simplex connecting link, British standard DIN 8187
34	1	T00408BH	METER AXLE FOR 6-OUTLET
35	5	T00408BI	TAPERED METERBOX SPACER
36	6	T00408BJ	PINTLE METER GEAR
37	1	T00408BK	6 OUTLET FERT. METERBOX WELDMENT
38	5	T00408BL	2 x 12 Split pin, 304 Stainless Steel
39	2	T00408BM	SPONGE SEAL STRIP, 355mm LONG
40	2	T00408BN	SPONGE SEAL STRIP, 600mm LONG
41	1	T00408BO	CANOPY FOR 6 OUTLET METERBOX
42	8	T00408BP	10mm Metric nyloc nut, DIN 985
43	1	T00408BQ	BEARING PLATE-R/H
44	1	T00408BR	SINGLE BLOCKING PLATE
45	1	T00408BS	DOUBLE BLOCKING PLATE
46	6	T00408BT	FLUTED COG METER GEAR

Transmission Mounting

Install clutch stopper on topmost bolt of transmission. Align with clutch on shaft before tightening nut (see drive parts for clutch installation)



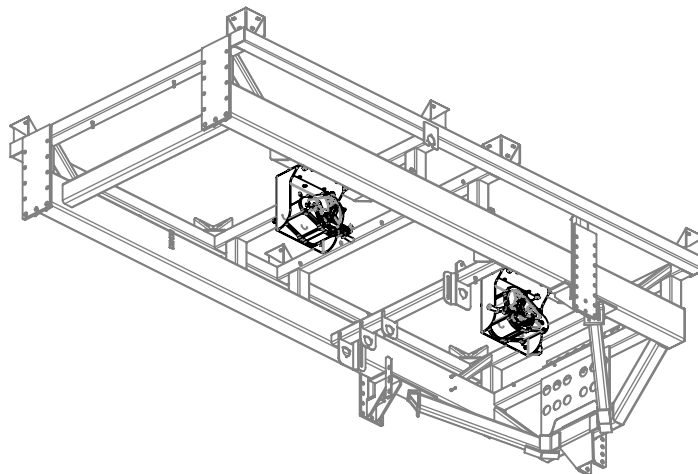
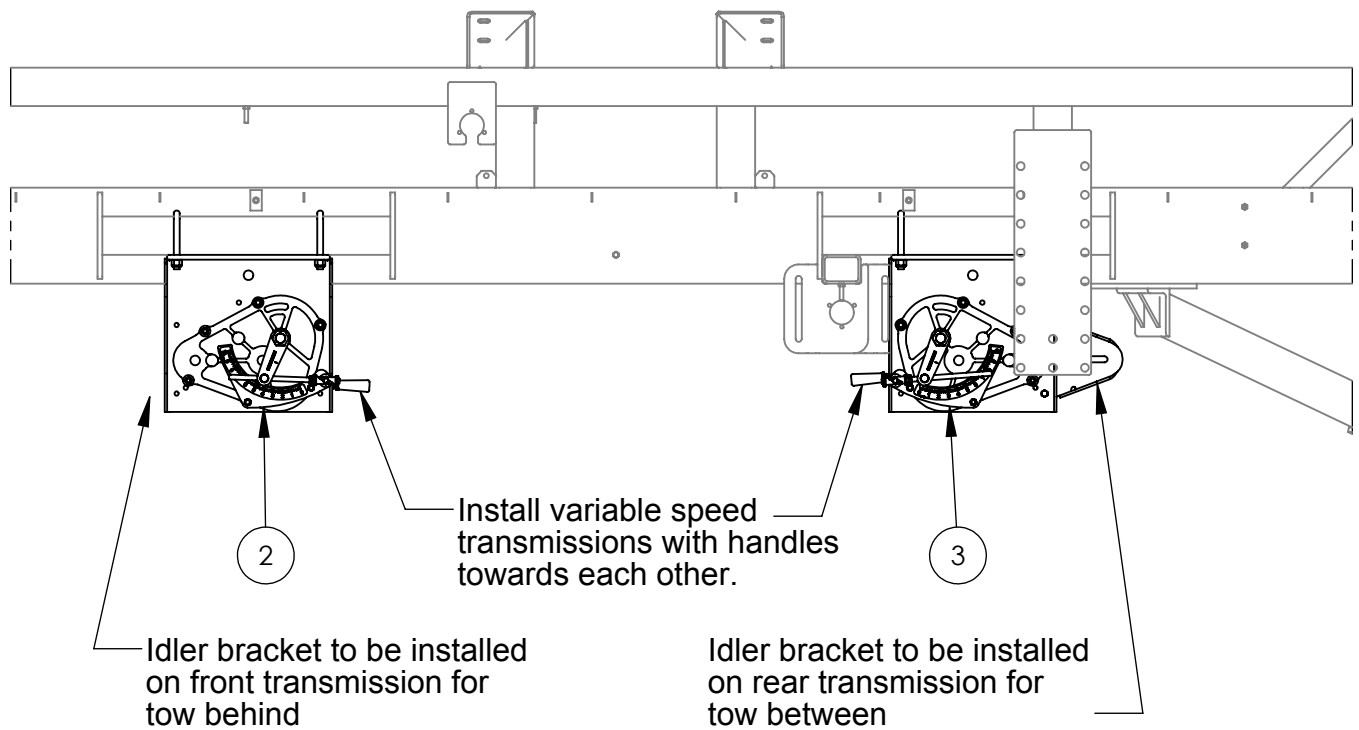
IMPORTANT

Leave u-bolts loose enough for mounts to slide until chains are installed - then move mounts to tighten chains before tightening u-bolts the rest of the way

Transmission Mounting

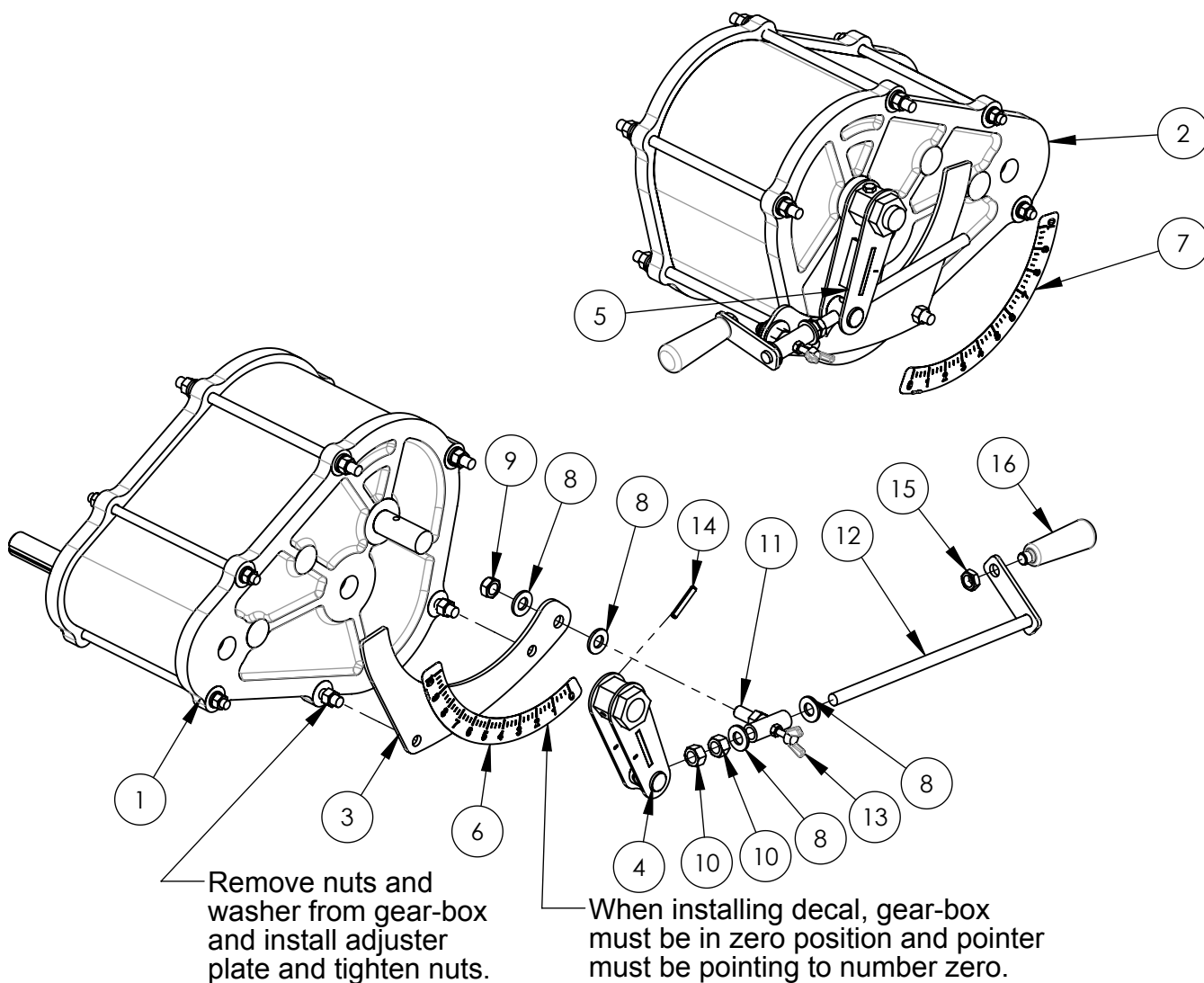
ITEM	QTY	PART NO.	DESCRIPTION
1	2	T00623	ZEROMAX VARIABLE SPEED DRIVE MOUNT WLDMNT
2	1	TD072800	ZEROMAX VARIABLE SPEED DRIVE "TD072800"
3	1	TD072100	ZEROMAX VARIABLE SPEED DRIVE "TD072100"
4	1	FL00480	AC2000 GROUND DRIVE IDLER BRACKET
5	4	BU1040	5/8 x 4 x 5-1/2" U-BOLT
6	8	BN10L	5/8" NYLOCK NUT NC
7	2	L01125	CLUTCH STOPPER
8	2	B0712	7/16"NC x 1 1/4" LG. HEX BOLT GR. 5
9	2	BN07L	7/16" NYLOCK NUT NC

Quantities shown are the same for Tow-Behind and Tow-Between



Zero-Max Handle Installation

ITEM NO.	QTY	PART NO.	DESCRIPTION
1	1	TD072800	ZEROMAX VARIABLE SPEED DRIVE "TD072800"
2	1	TD072100	ZEROMAX VARIABLE SPEED DRIVE "TD072100"
3	1	FL00371	ZERO-MAX ADJUSTER PLATE "72800"
4	1	T00610	CONTROL ARM WELDMENT
5	1	T00737	CONTROL ARM WELDMENT TD072100
6	1	GD072600	DECAL FOR TD072600 or TD072800 GEAR BOX 10-0 L TO R
7	1	GD072100	DECAL FOR TD072100 GEAR BOX 10-0 R TO L
8	4	BF08HS	1/2" HARD STRUCTURAL FLAT WASHER
9	1	BN08S	1/2"-13NC STOVER LOCK NUT
10	2	BN08	1/2" HEX NUT NC
11	1	T00612	ZERO-MAX ADJUSTER THREADED ROD SLEEVE
12	1	T00616	HANDLE WELDMENT
13	1	B0410W	1/4" x 1" LG WING SCREW
14	1	BSR0415	1/4" x 1 1/2" LG ROLL-PIN PLATED
15	1	BN08J	1/2"NC JAM NUT GR. 5
16	1	T01317	REVOLVING HANDLE 1/2"-13 THREAD



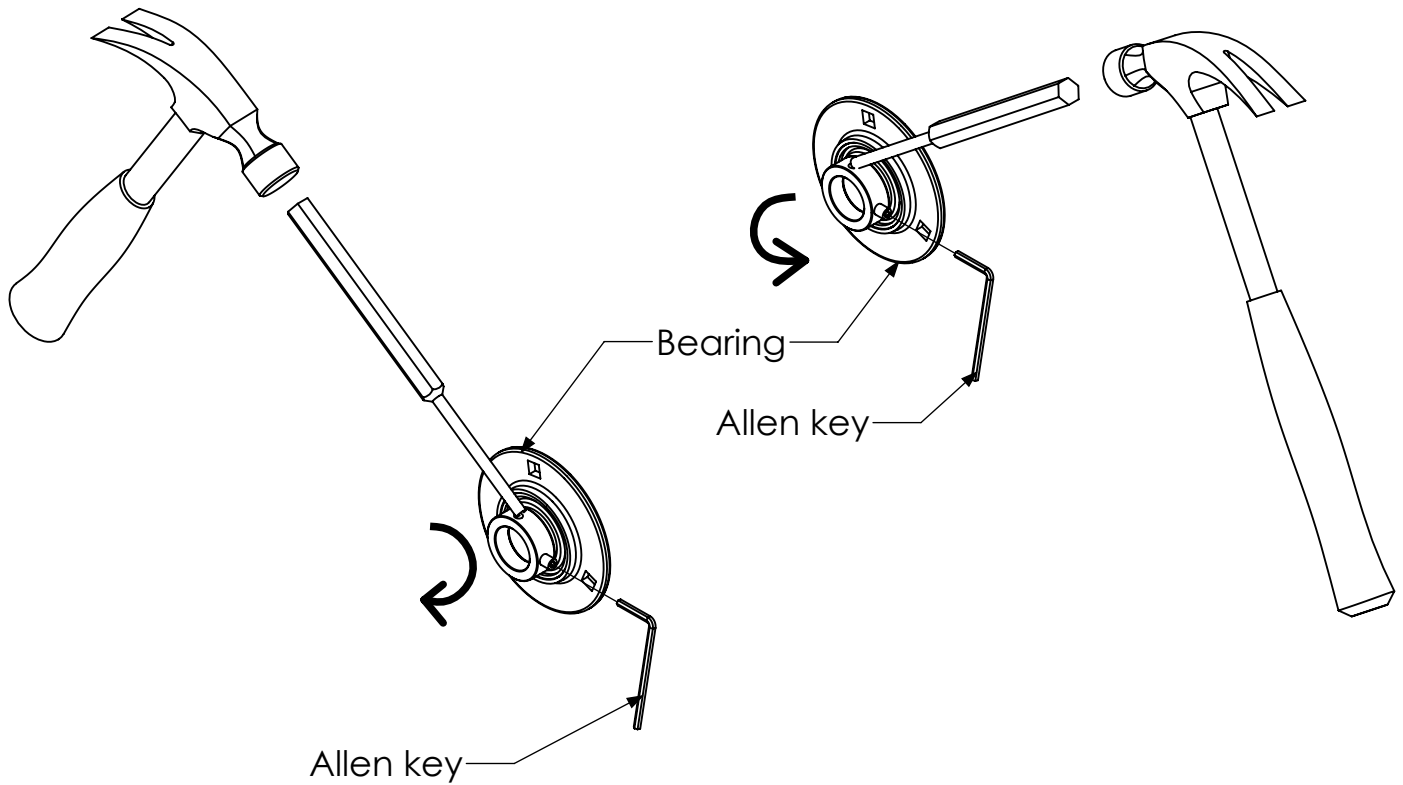
Locking Collar Procedures

Tighten

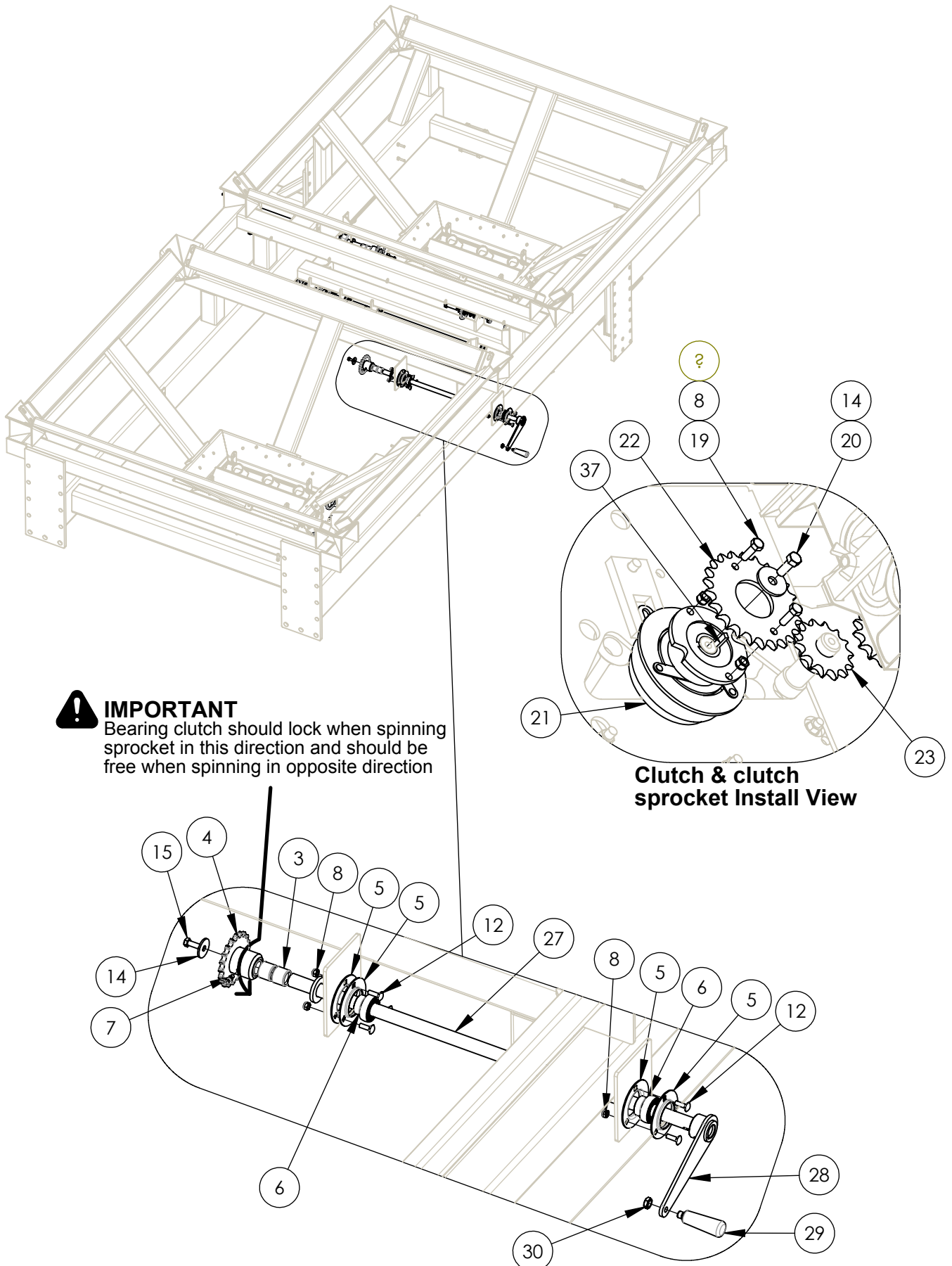
1. Rotate collar clockwise by tapping punch with hammer.
2. Tighten set screw with allen key

Loosen

1. Loosen set screw with allen key
2. Rotate collar by tapping punch with hammer as shown.



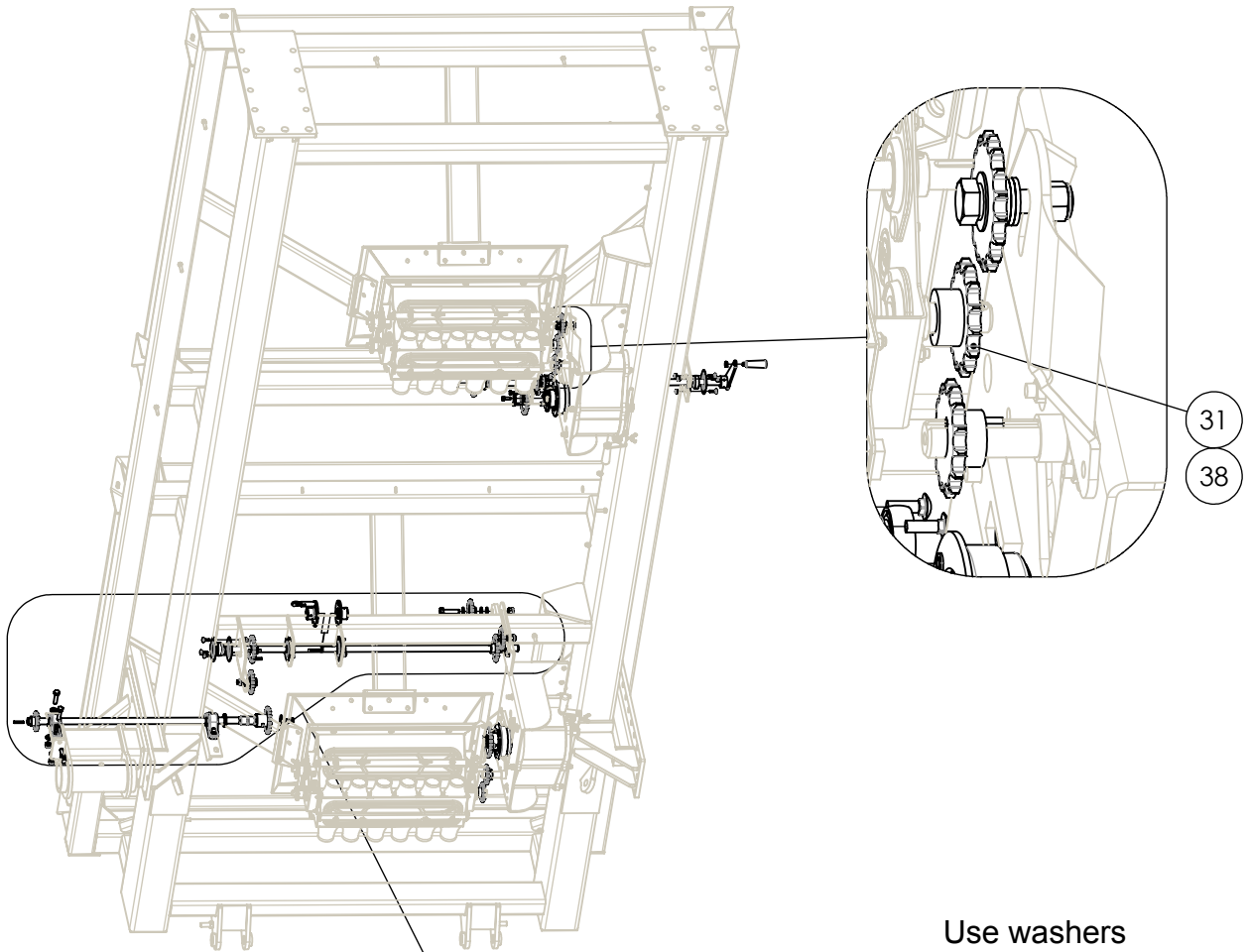
Ground Drive Installation



! IMPORTANT
 Bearing clutch should lock when spinning sprocket in this direction and should be free when spinning in opposite direction

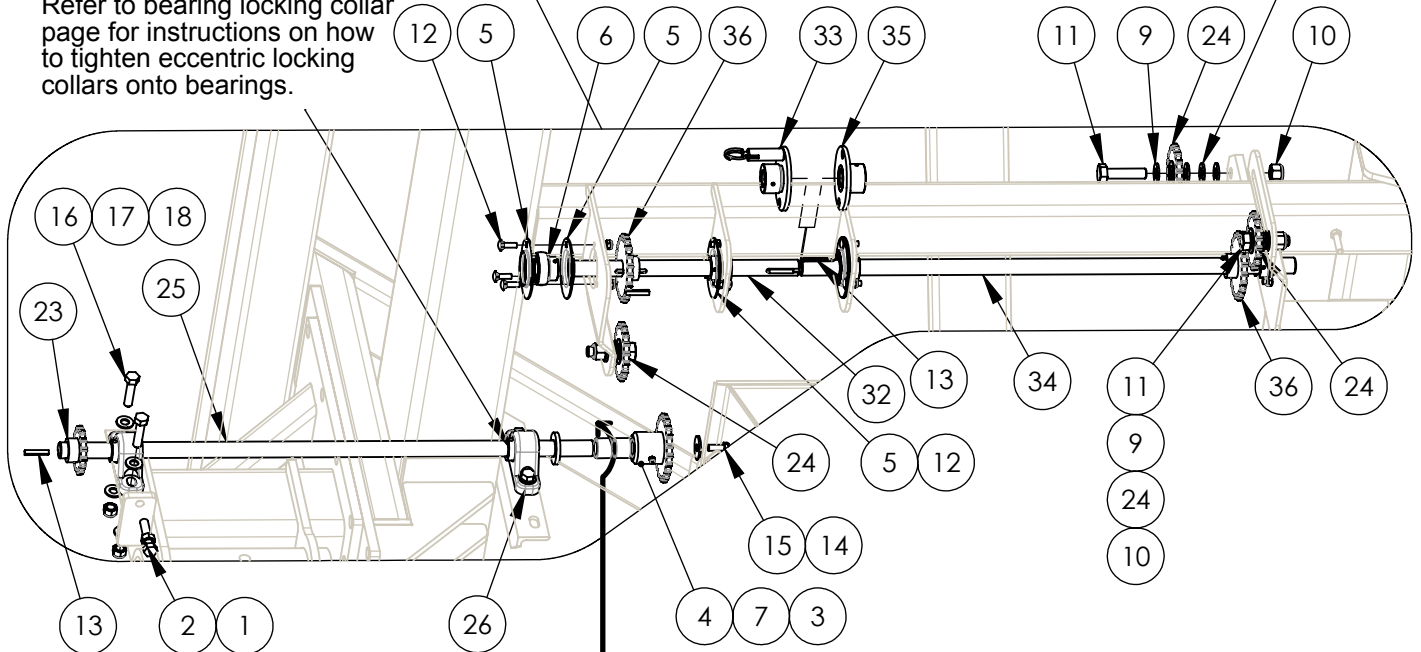
Clutch & clutch sprocket install view

Ground Drive Installation



Refer to bearing locking collar page for instructions on how to tighten eccentric locking collars onto bearings.

Use washers to align idlers



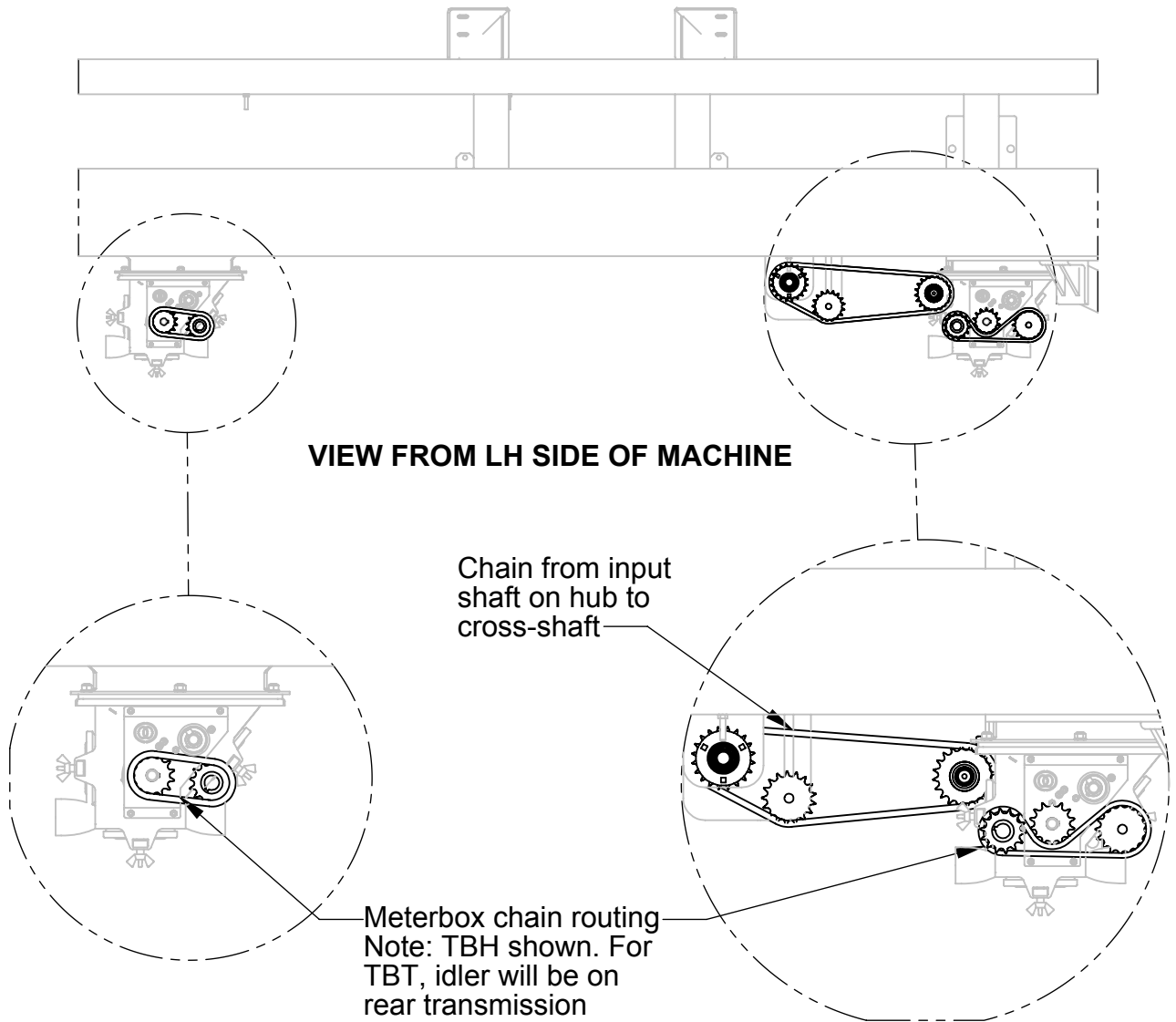
IMPORTANT

Bearing clutch should lock when spinning sprocket in this direction and should be free when spinning in opposite direction

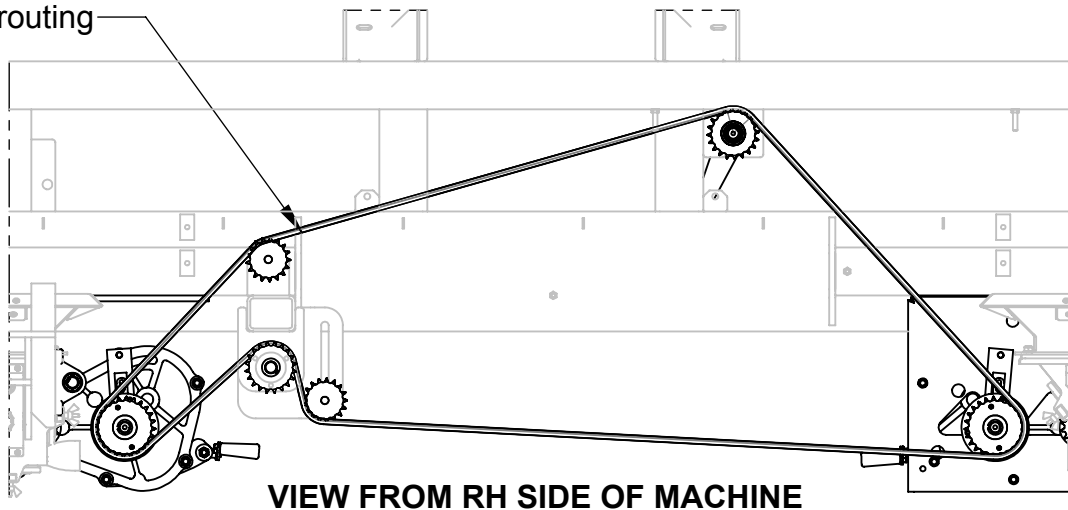
Ground Drive Installation

ITEM	QTY	PART NO.	DESCRIPTION
1	1	BN08	1/2" HEX NUT NC
2	1	B0825	1/2" x 2 1/2" HEX BOLT
3	4	GB-RCB-162117	ONE-WAY CLUTCH BEARING
4	2	T00643	SPROCKET & ONE-WAY CLUTCH WLDMNT
5	12	GB-PF5Z	1" BEARING FLANGE
6	6	GB205-16	1" LOCKING COLLAR BEARING
7	2	GF641	1/4"-28NF GREASE FITTING
8	22	BN05L	5/16" LOCK NUT
9	16	BF10HS	5/8" HARD STRUCTURAL FLAT WASHER
10	4	BN10L	5/8" NYLOCK NUT NC
11	4	B1025	5/8 x 2 1/2" HEX BOLT GR 5
12	18	BC0510	5/16" NC x 1" CARRIAGE BOLT GR.2 PLATED
13	7	SQ040415	1/4" x 1/4" x1 1/2" LG SQUARE KEY
14	4	BF06F	3/8" FENDER FLATWASHER 1/8" THICK
15	2	B0610	3/8" X 1" LG. GRADE 5
16	4	B0820	1/2" x 2" HEX BOLT
17	8	BF08HS	1/2" HARD STRUCTURAL FLAT WASHER
18	4	BN08L	1/2" NYLOCK NUT NC
19	4	B0510	5/16" X 1" HEX BOLT GR. 5
20	2	B0610F	3/8" NF x 1" LG HEX BOLT GR.5 PLATED
21	2	T00017	ELECTRIC CLUTCH ASSEMBLY
22	2	50BS24M	#50 - 24 TOOTH SPROCKET FOR ELECTRIC CLUTCH
23	3	50BS14	#50 BS 14 TOOTH SPROCKET
24	4	50BS17I	# 50 - 17 TOOTH SPROCKET IDLER
25	1	T00982	AC2000 MAIN DRIVE SHAFT WELDMENT
26	2	T12924	1" PILLOW BLOCK BEARING
27	1	T00839	CAL. HANDLE SHAFT FOR DBL MNTD TANK
28	1	T00650	CALIBRATION HANDLE
29	1	T01317	REVOLVING HANDLE 1/2"-13 THREAD
30	1	BN08J	1/2"NC JAM NUT GR. 5
31	2	50BS14-20	#50 - 14 SPROCKET WITH A 20MM BORE
32	1	T01193	14 1/2" AC2000 GROUND DRIVE SHAFT
33	1	T01026	TANK DRIVE LOCKOUT W/ LATCH
34	1	T01194	31 1/2" AC2000 GROUND DRIVE SHAFT
35	1	T01025	TANK DRIVE LOCKOUT W/O LATCH
36	2	50BS20	#50 BS 20 TOOTH SPROCKET - 1" KEYED BORE
37	2	SQ040327	3/16" x 1/4" x 2 3/4" LG RECTANGULAR KEY
38	2	SQ6MM	6mm x 27mm SQUARE KEY

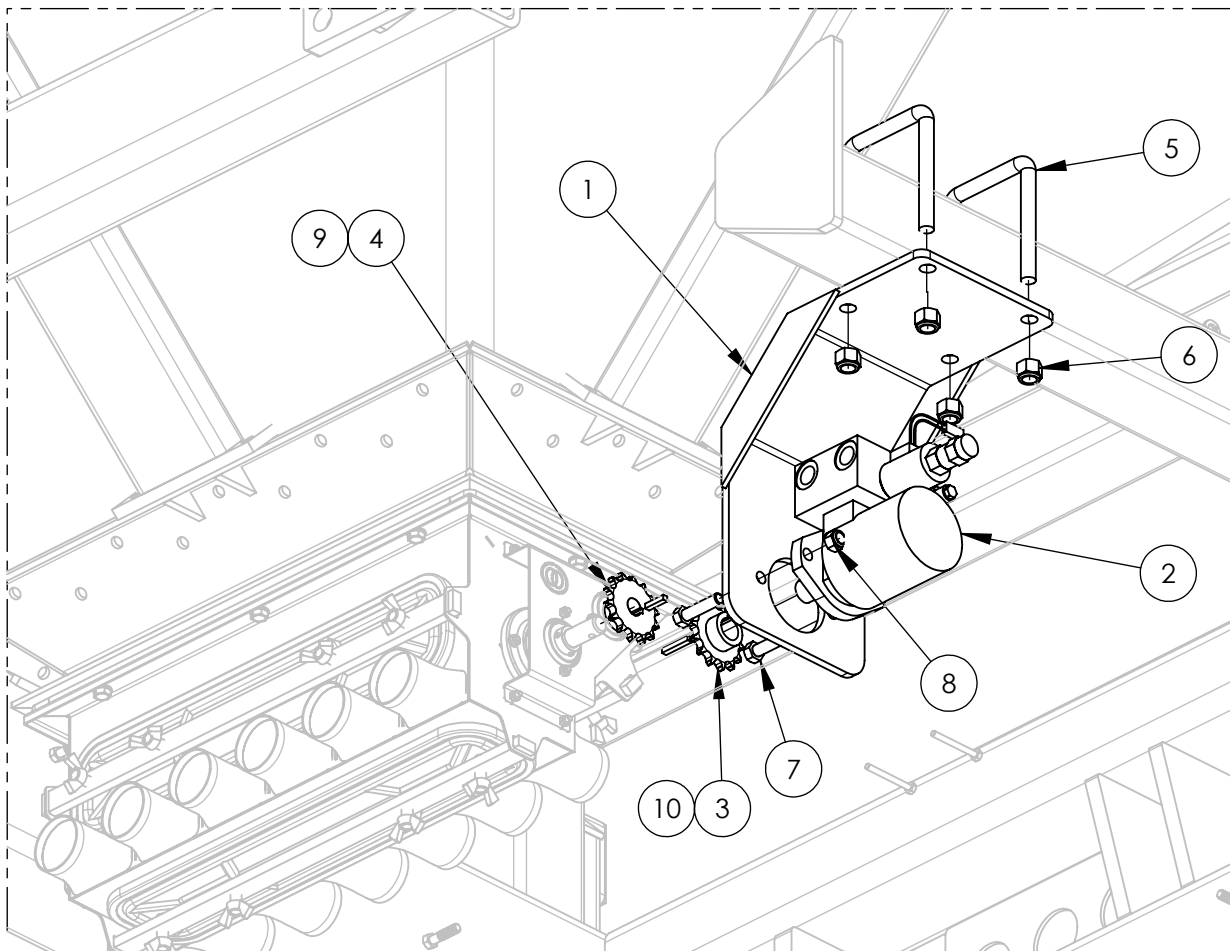
Ground Drive Chain Routing



Calibration chain routing



Hydraulic Drive Installation

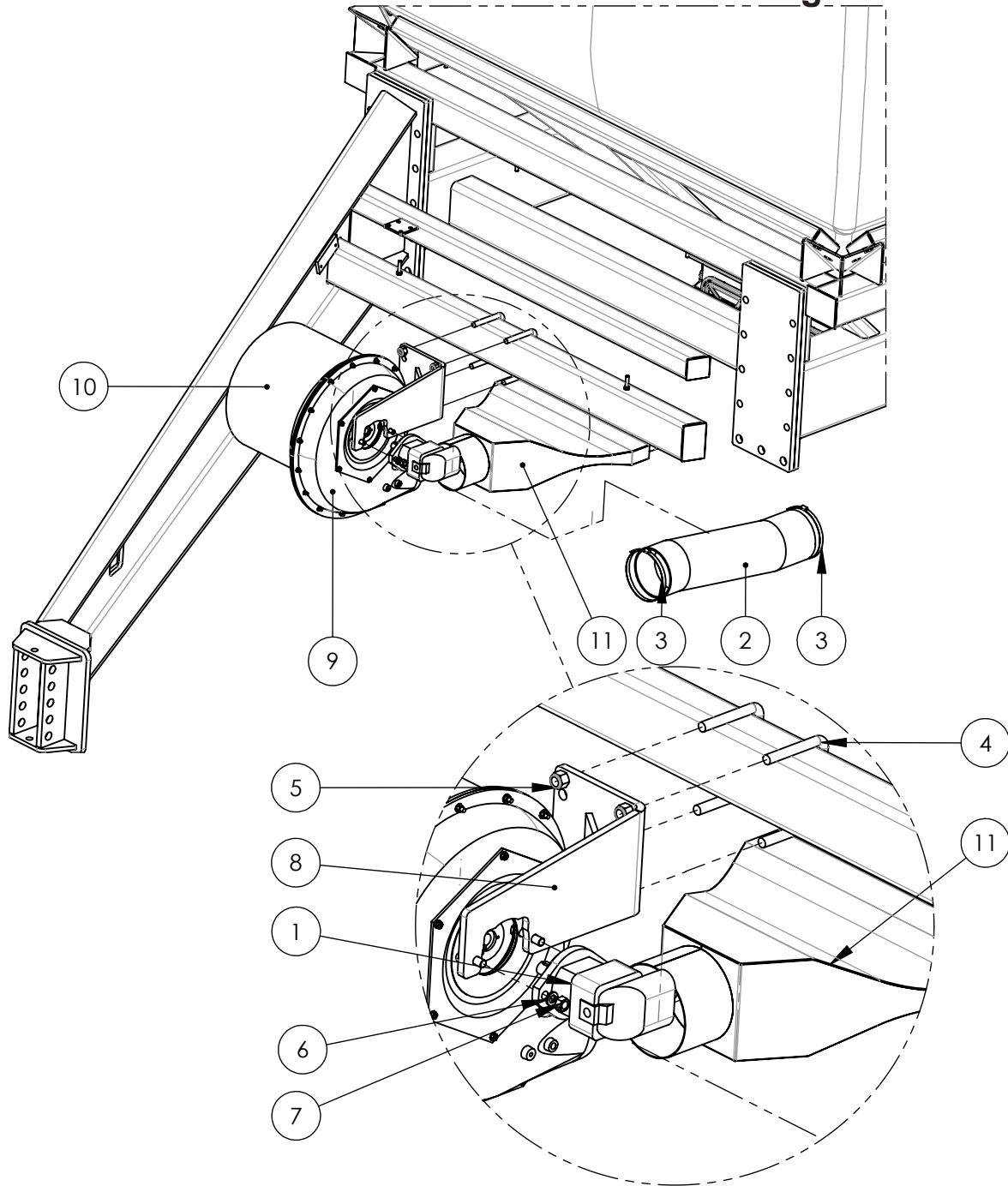


ITEM	QTY	PART NO.	DESCRIPTION
1	1	T00979	HYD. METERING DRIVE MOUNT
2	1	TDJ467092200S1	HD4180 HYDRAULIC MOTOR WITH INTEGRATED HYDRAULIC VALVE
3	1	50BS14	#50 BS 14 TOOTH SPROCKET
4	1	50BS14-20	#50 - 14 SPROCKET WITH A 20MM BORE
5	2	BU1040	5/8 x 4 x 5-1/2" U-BOLT
6	4	BN10L	5/8" NYLOCK NUT NC
7	2	B0820	1/2"NC x 2" LG. HEX BOLT
8	2	BN08L	1/2" NYLOCK NUT NC
9	1	SQ6MM	6mm x 27mm SQUARE KEY
10	1	SQ040415	1/4" x 1/4" x 1 1/2" LG SQUARE KEY

Quantities shown are for one tank.

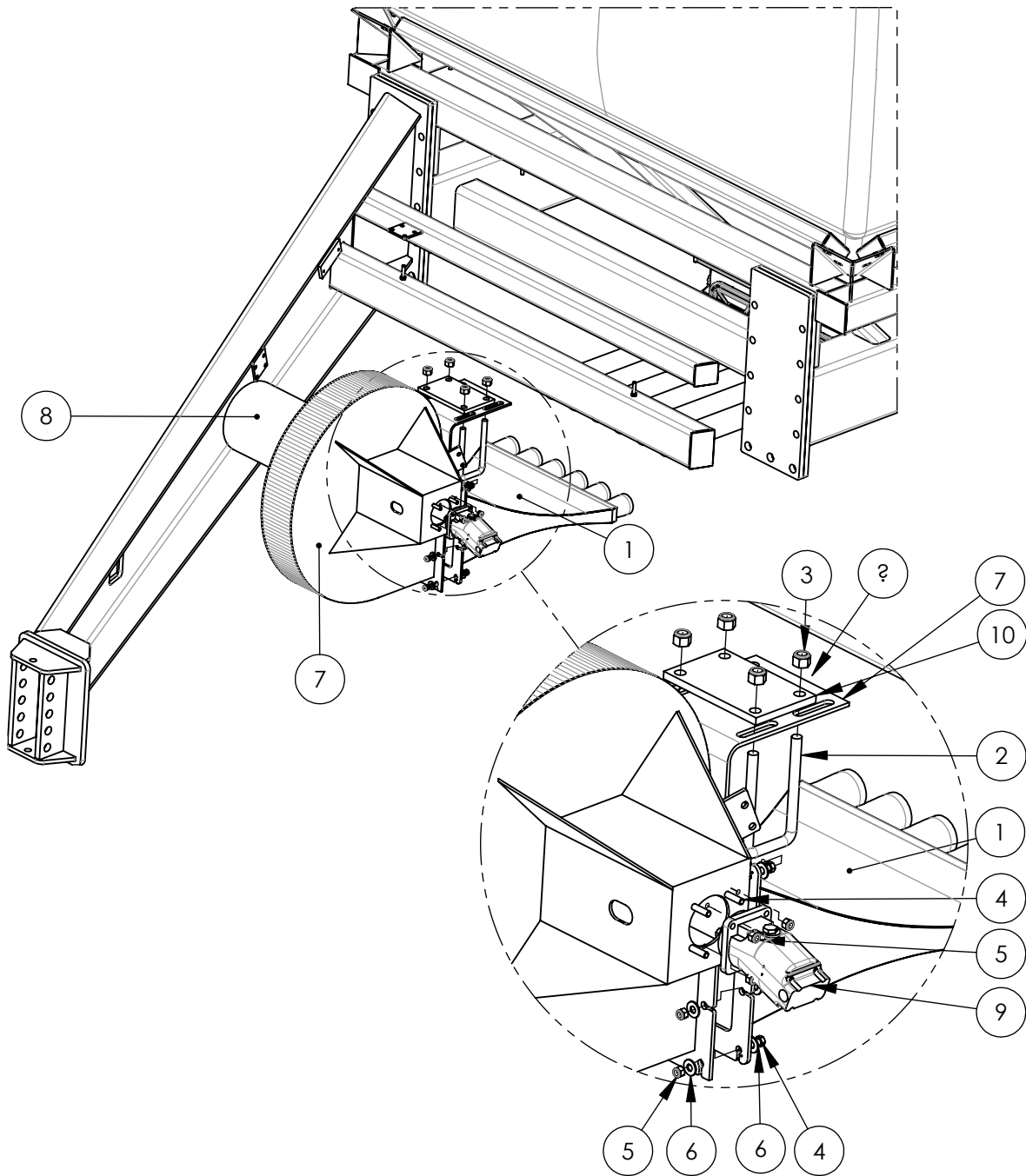
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Tow Between 13" Fan Mounting



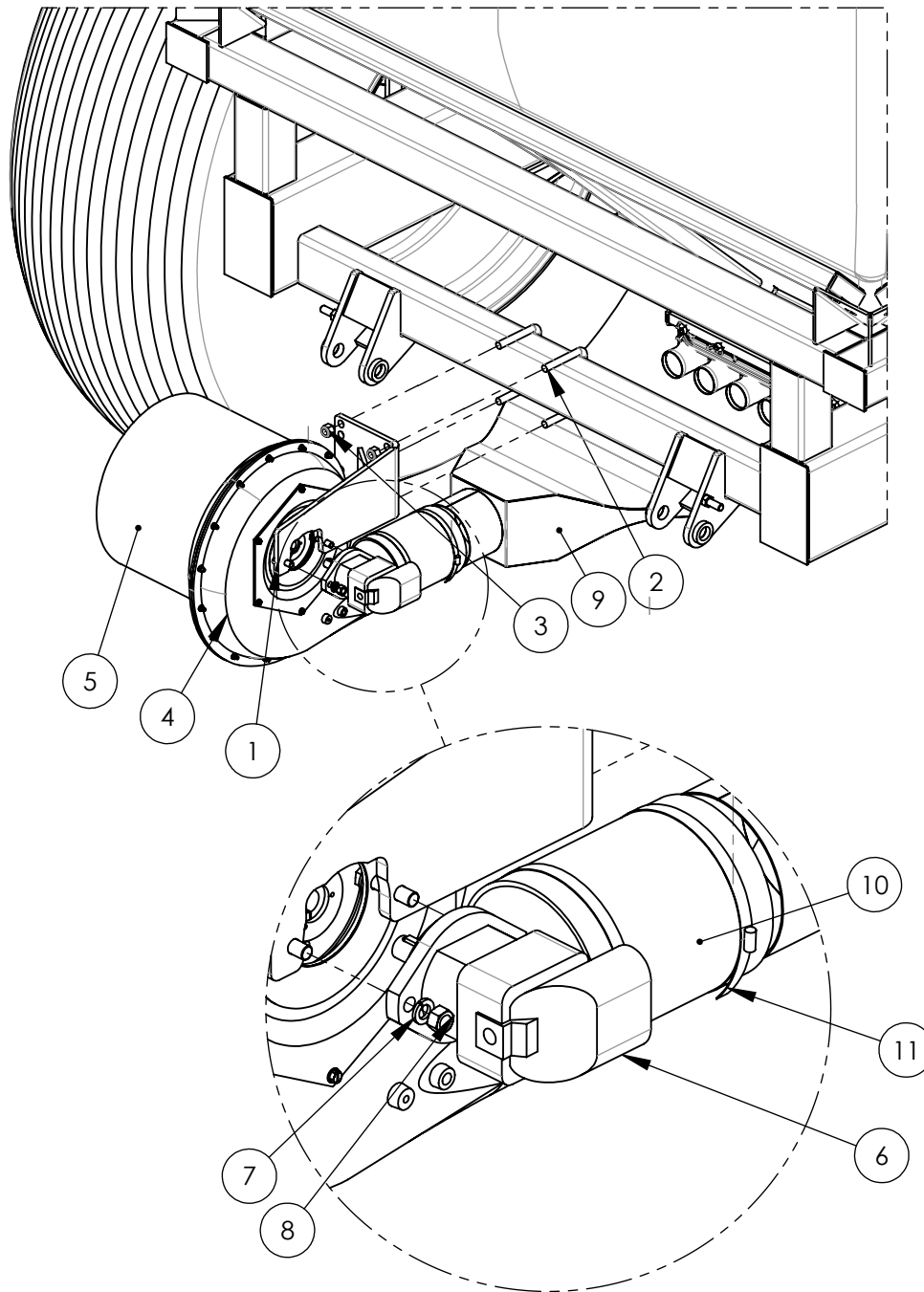
ITEM	QTY	PART NO.	DESCRIPTION
1	1	T00557	PARKER F-11 HYD MOTOR
2	1	T00359	6" AIR TANK CONNECTOR HOSE
3	2	T00358	6" HOSE CLAMP
4	2	BU1050	5/8" x 5 x 4 1/2" U-BOLT
5	4	BN10L	5/8" NYLOCK NUT NC
6	2	BL08	1/2" SPRING WASHER
7	2	BN08	1/2" HEX NUT NC
8	1	T00993	TOW BETWEEN FAN MOUNTING BRACKET
9	1	T00006	13" CRARY FAN
10	1	T00006AA	13" CRARY FAN INLET SCREEN
11	1	T00397	6 OUTLET SPLITTER MANIFOLD

Tow Between 17" Fan Mounting



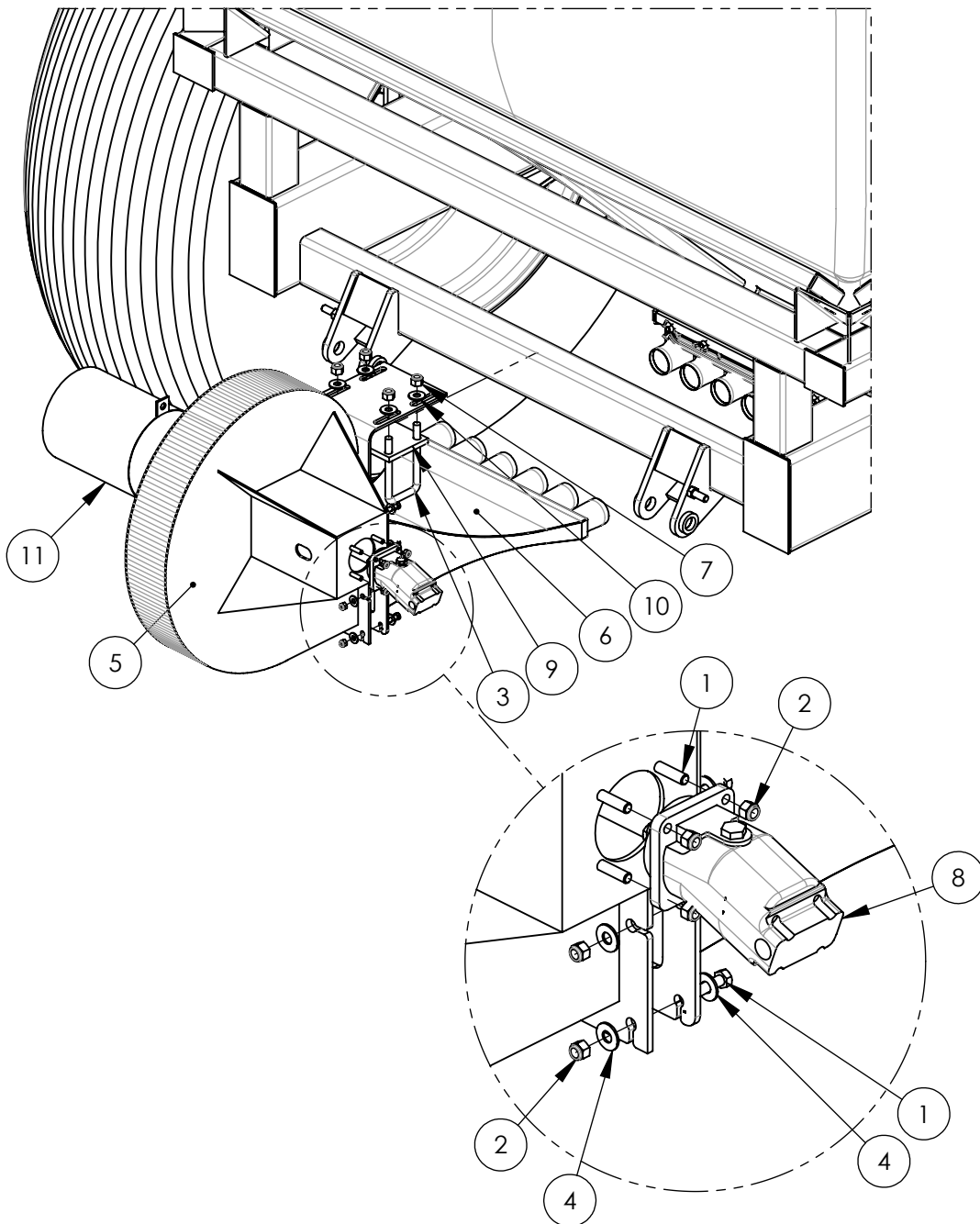
ITEM	QTY	PART NO.	DESCRIPTION
1	1	T00824	6 OUTLET SPLITTER MANIFOLD FOR REM FAN
2	2	BU1036	5/8 x 3 x 6 1/2 U-BOLT
3	4	BN10L	5/8" NYLOCK NUT NC
4	14	B0615	3/8" NC 1 1/2" HEX BOLT PLATED GR. 5
5	14	BN06L	3/8"-16NC LOCK NUT
6	20	BF06	3/8" FLATWASHER
7	1	T00354	17" REM FAN
8	1	T00354AA	17" REM FAN INLET SCREEN
9	1	T00355	EATON MOTOR
10	1	L01376	1/2" x 5" x 8" REM FAN MOUNTING PLATE

Tow Behind 13" Fan Mounting



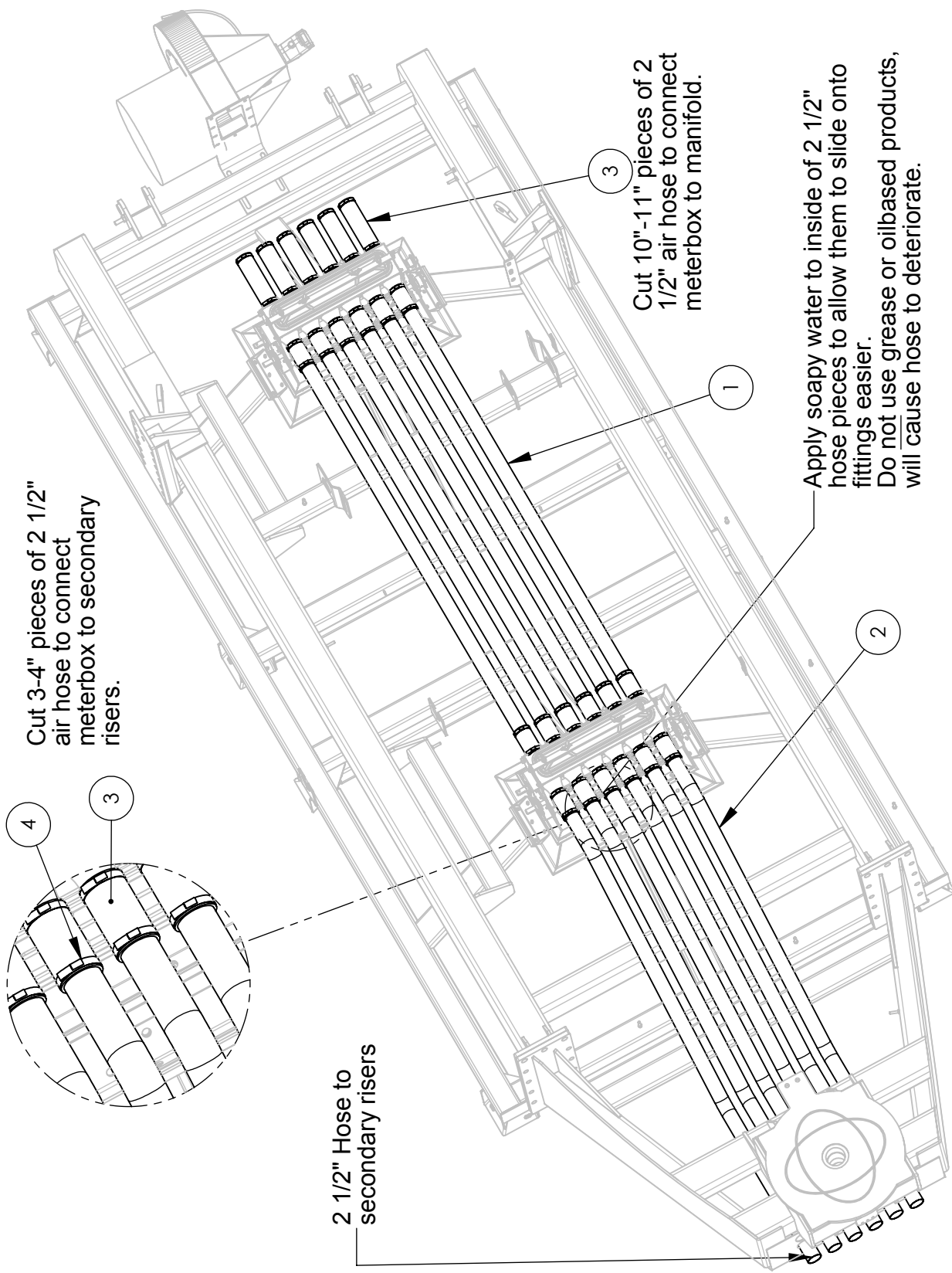
ITEM	QTY	PART NO.	DESCRIPTION
1	1	T00993	TOW BETWEEN FAN MOUNTING BRACKET
2	2	BU1050	5/8" x 5 x 4 1/2" U-BOLT
3	4	BN10L	5/8" NYLOCK NUT NC
4	1	T00006	13" CRARY FAN
5	1	T00006AA	13" CRARY FAN INLET SCREEN
6	1	T00557	PARKER F-11 HYD MOTOR
7	2	BL08	1/2" SPRING WASHER
8	2	BN08	1/2" HEX NUT NC
9	1	T00397	6 OUTLET SPLITTER MANIFOLD
10	1	T00359	6" AIR TANK CONNECTOR HOSE
11	2	T00358	6" HOSE CLAMP

Tow Behind 17" Fan Mounting



ITEM	QTY	PART NO.	DESCRIPTION
1	14	B0615	3/8" NC 1 1/2" HEX BOLT PLATED GR. 5
2	14	BN06L	3/8"-16NC LOCK NUT
3	2	BU1036	5/8 x 3 x 6 1/2 U-BOLT
4	20	BF06	3/8" FLATWASHER
5	1	T00354	17" REM FAN
6	1	T00824	6 OUTLET SPLITTER MANIFOLD FOR REM FAN
7	4	BN10L	5/8" NYLOCK NUT NC
8	1	T00355	EATON MOTOR
9	1	L01376	1/2" x 5" x 8" REM FAN MOUNTING PLATE
10	4	BF10	5/8" FLAT WASHER
11	1	T00354AA	17" REM FAN INLET SCREEN

Tow Behind Air Distribution



Cut 3-4" pieces of 2 1/2" air hose to connect meterbox to secondary risers.

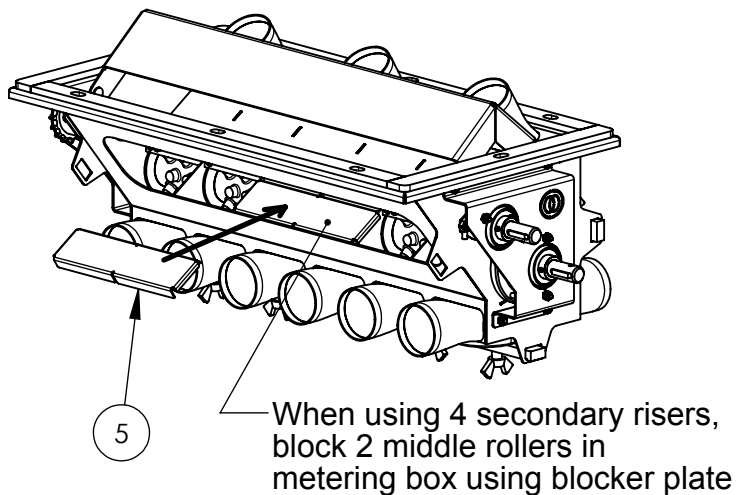
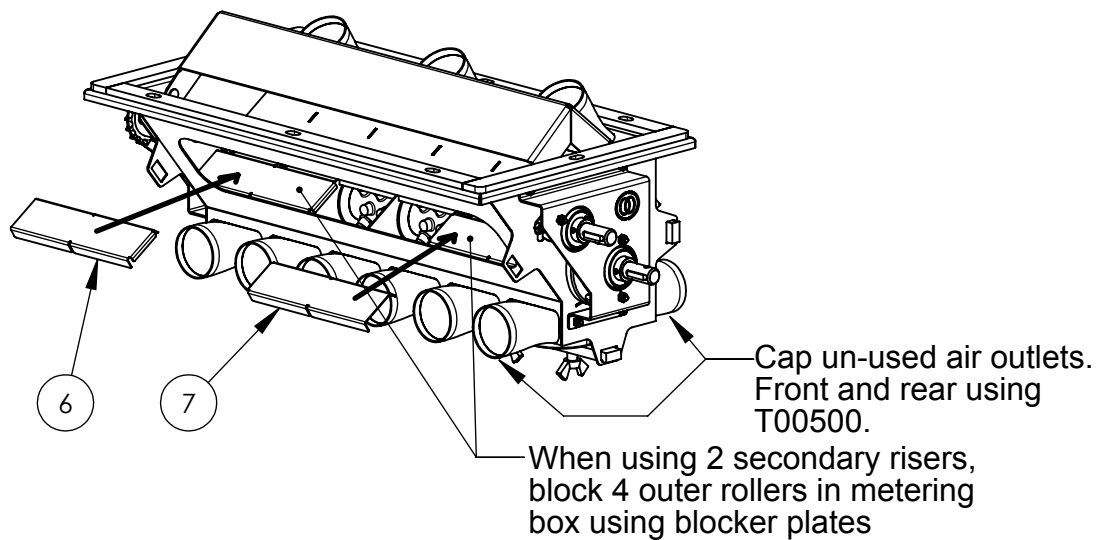
Cut 10"-11" pieces of 2 1/2" air hose to connect meterbox to manifold.

Apply soapy water to inside of 2 1/2" hose pieces to allow them to slide onto fittings easier. Do not use grease or oilbased products, will cause hose to deteriorate.

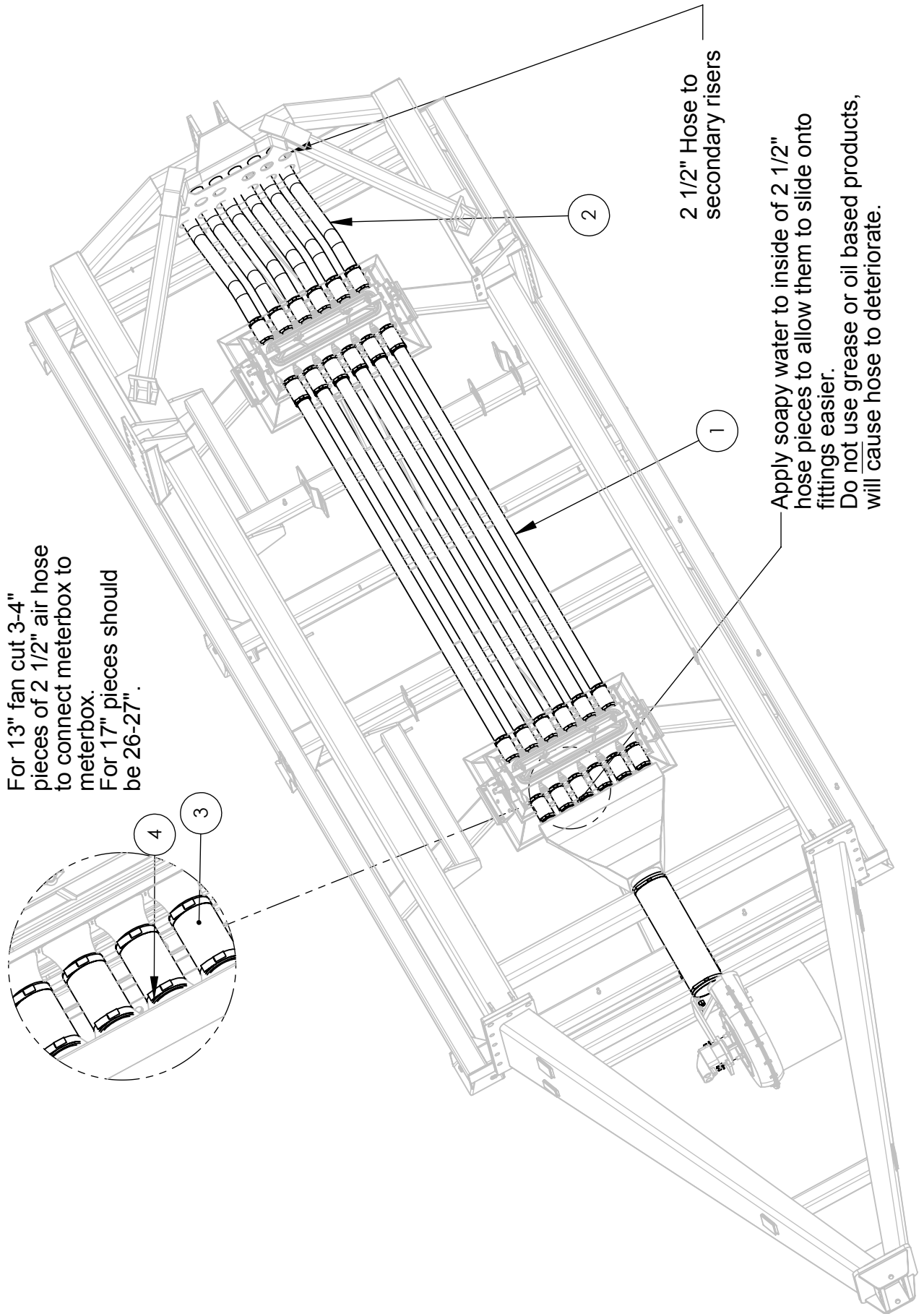
2 1/2" Hose to secondary risers

Tow Behind Air Distribution

ITEM	QTY	PART NO.	DESCRIPTION
1	6	T00818	2 1/2" OD - 80" LONG STRAIGHT PIPE
2	6	T01344	AC2000 TBH FRONT AIR PIPE
3	24	T00020	2 1/2" AIR SEEDER HOSE
4	48	T00023	2 1/2" HOSE CLAMP
5	2	T00408BS	DOUBLE LINE BLOCKER PLATE
6	2	T00408BUR	DOUBLE LINE BLOCKER PLATE - OUTER RH
7	2	T00408BUL	DOUBLE LINE BLOCKER PLATE - OUTER LH
8	1	T00500	2 1/2" AIR HOSE CAP

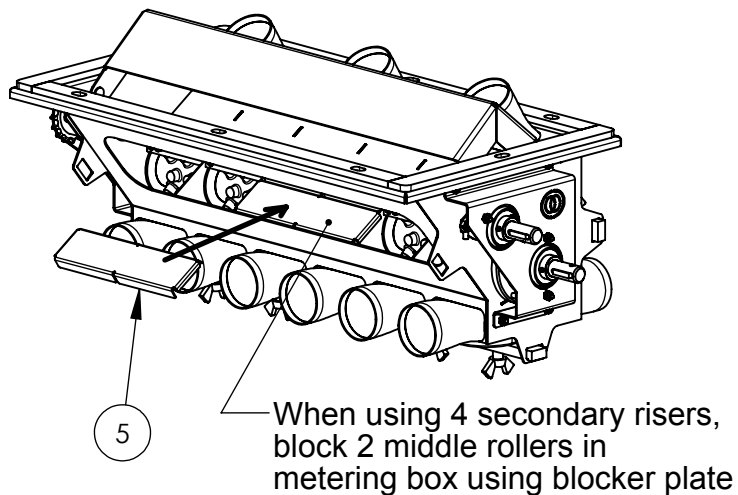
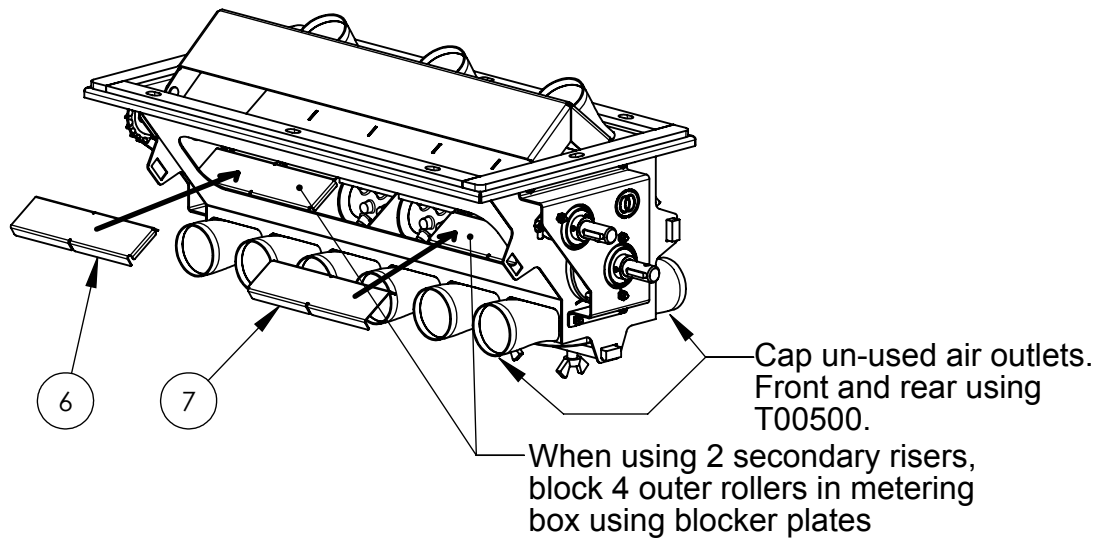


Tow Between Air Distribution

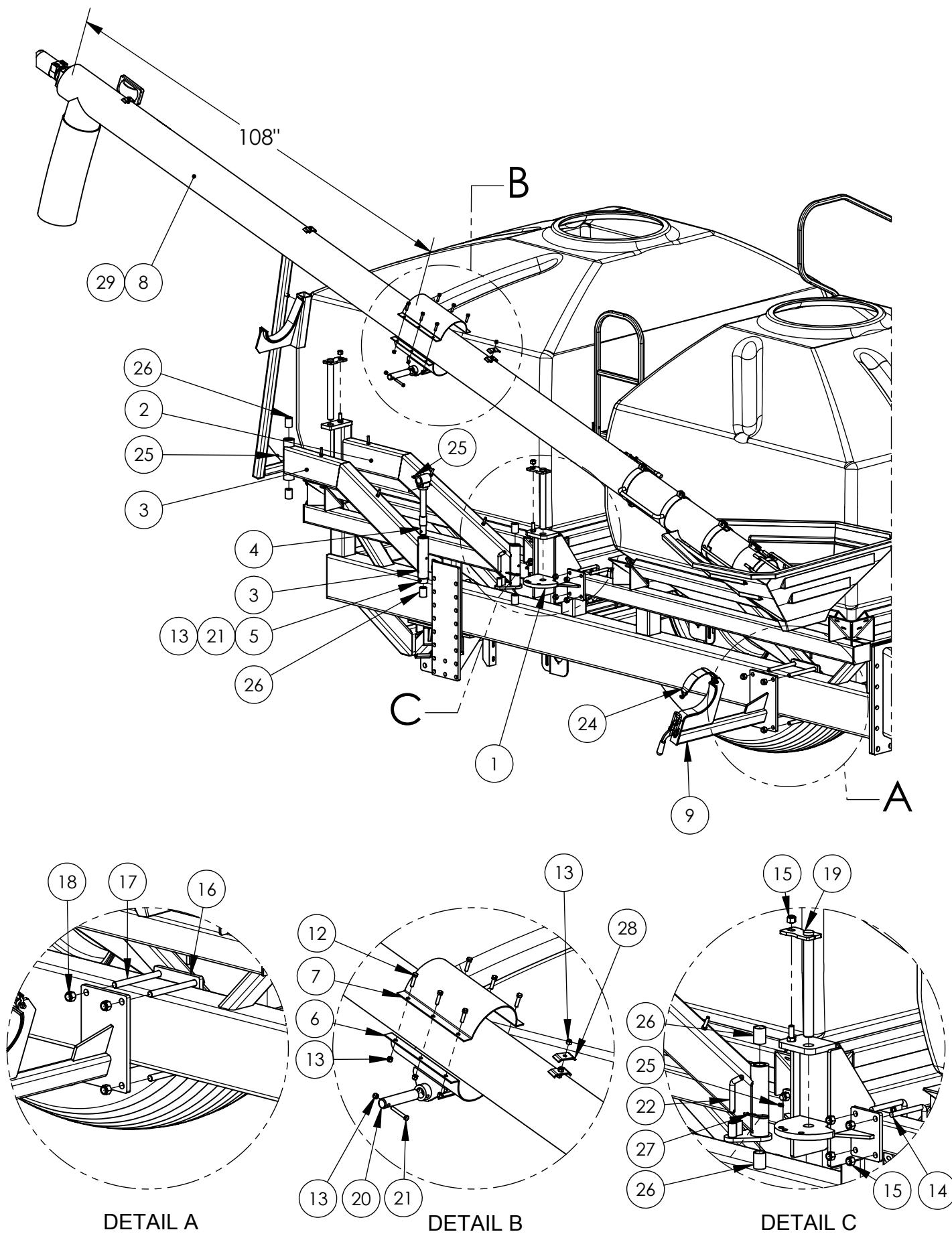


Tow Between Air Distribution

ITEM	QTY	PART NO.	DESCRIPTION
1	6	T00818	2 1/2" OD - 80" LONG STRAIGHT PIPE
2	6	T00985	AC2000 REAR AIR TUBE
3	24	T00020	2 1/2" AIR SEEDER HOSE
4	48	T00023	2 1/2" HOSE CLAMP
5	2	T00408BS	DOUBLE LINE BLOCKER PLATE
6	2	T00408BUR	DOUBLE LINE BLOCKER PLATE - OUTER RH
7	2	T00408BUL	DOUBLE LINE BLOCKER PLATE - OUTER LH
8	1	T00500	2 1/2" AIR HOSE CAP

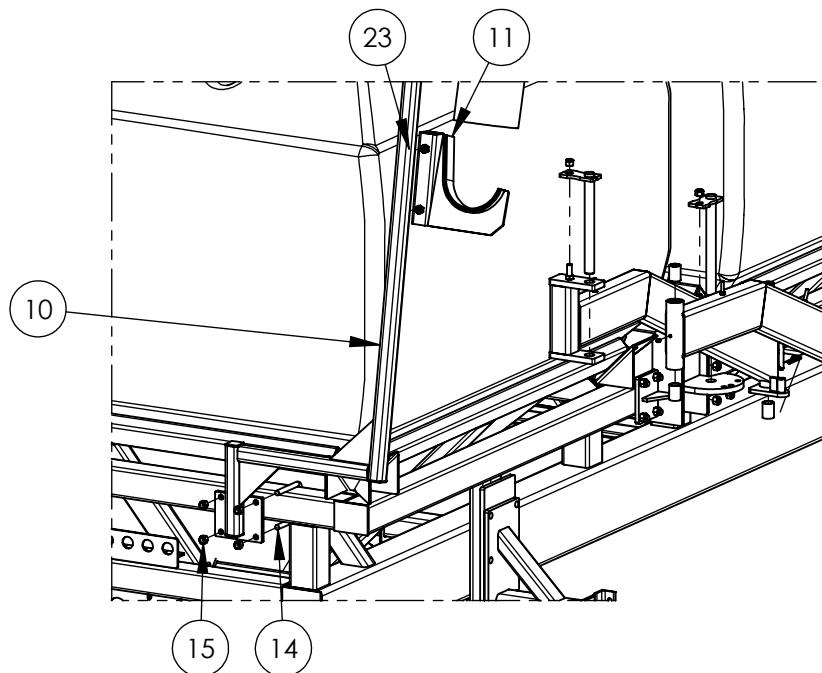


8" Auger Installation

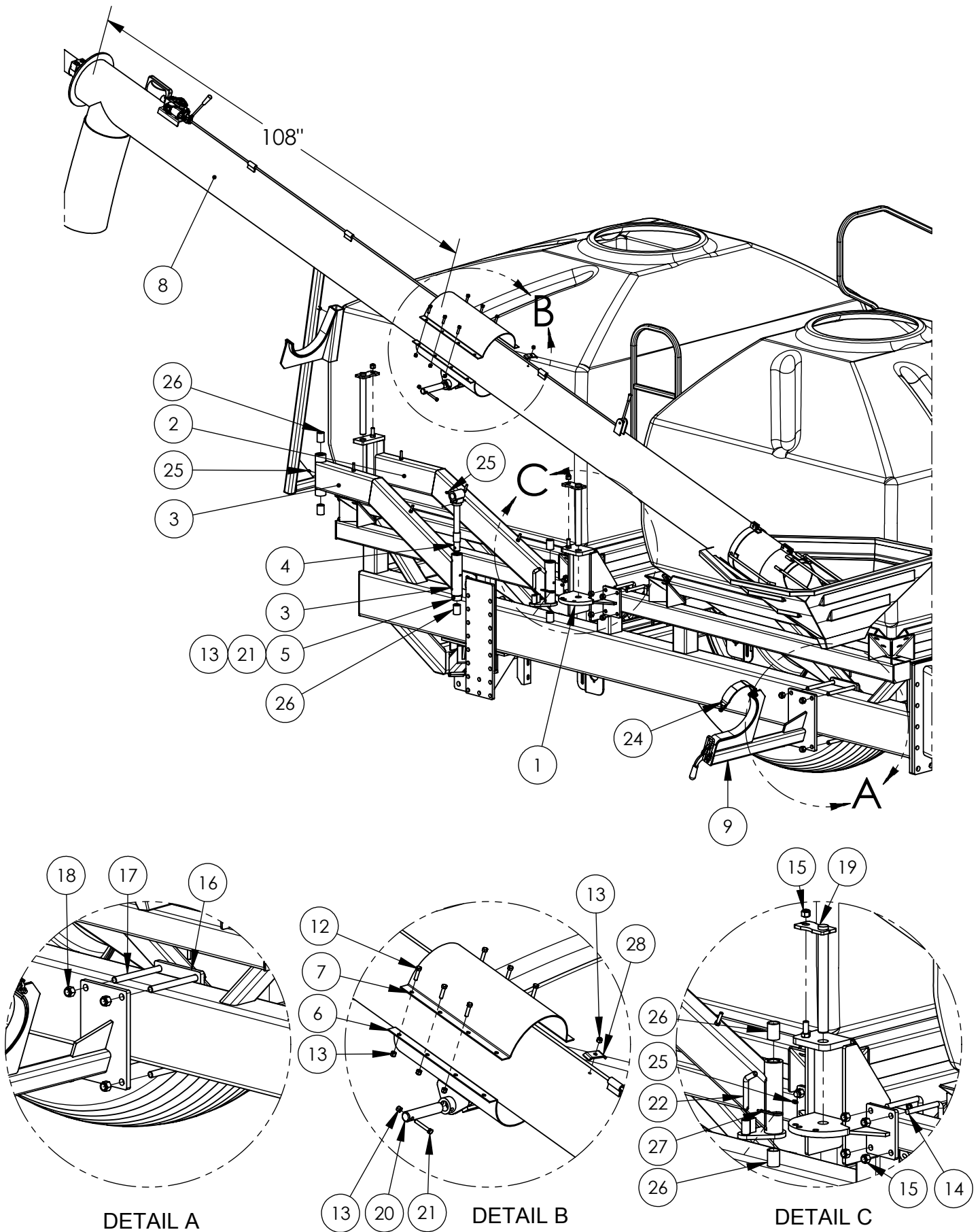


8" Auger Installation

ITEM	QTY	PART NO.	DESCRIPTION
1	1	T01248	AC2000 AUGER MOUNT
2	1	T00987	LOWER AUGER ARM
3	1	T00986	UPPER AUGER ARM
4	1	T01249	AUGER PIVOT WITH 11 3/8" PIN
5	1	ZD1208	2" O.D. x 1.28 I.D. x 1" LG LOCKING COLLAR
6	1	T00660	AC280 AUGER MOUNTING CRADLE
7	1	L00999	AUGER MOUNTING PLATE
8	1	T00980	AIR TANK AUGER ASSEMBLY CUPPED FLIGHTING
9	1	T00990	DOUBLE PLASTIC TANK FRONT AUGER CRADLE
10	1	T01250	AC2000 REAR AUGER CRADLE POST
11	1	T01043	DOUBLE PLASTIC TANK REAR AUGER CRADLE
12	6	B0615B	3/8 NC 1 1/2" HEX BOLT BLACK
13	16	BN06L	3/8"-16NC LOCK NUT
14	6	BU1040	5/8 x 4 x 5-1/2" U-BOLT
15	14	BN10L	5/8" NYLOCK NUT NC
16	1	L00872	5/8" x 8" x 12 1/2" BOLTING PLATE
17	4	B1285	3/4"NC x 8 1/2" LG. HEX BOLT GR.5
18	4	BN12L	3/4" NC NYLOCK NUT
19	2	GPH2001314F	1 1/4" x 13 1/2" LG. AXLE PIN - HARDENED
20	1	GP2000614B07	PIN 1 1/4" DIA. x 6 1/4" LG. - 1 HOLE
21	2	B0625	3/8" X 2 1/2" LG. GRADE 5
22	1	GP10004L03	L-PIN 5/8" DIA. x 4" LG.
23	2	B1015	5/8"NC x 1 1/2" HEX BOLT
24	1	T00953	AUGER HOLD-DOWN STRAP
25	4	GF1610	1/8" NPT GREASE FITTING
26	6	GBB150125200	1 1/2" x 1 1/4" x 2" LG. HARD BUSHING
27	1	GHP9	#9 HAIR PIN
28	8	P0160A	HOSE CLAMP 3"
29	1	T00981	AIR TANK AUGER ASSEMBLY BRISTLE FLIGHTING

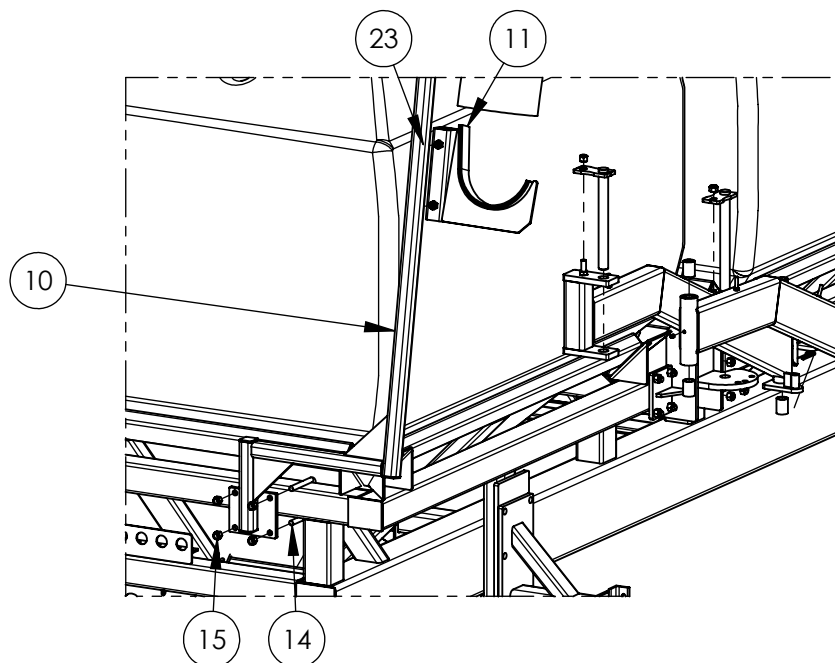


10" Auger Installation

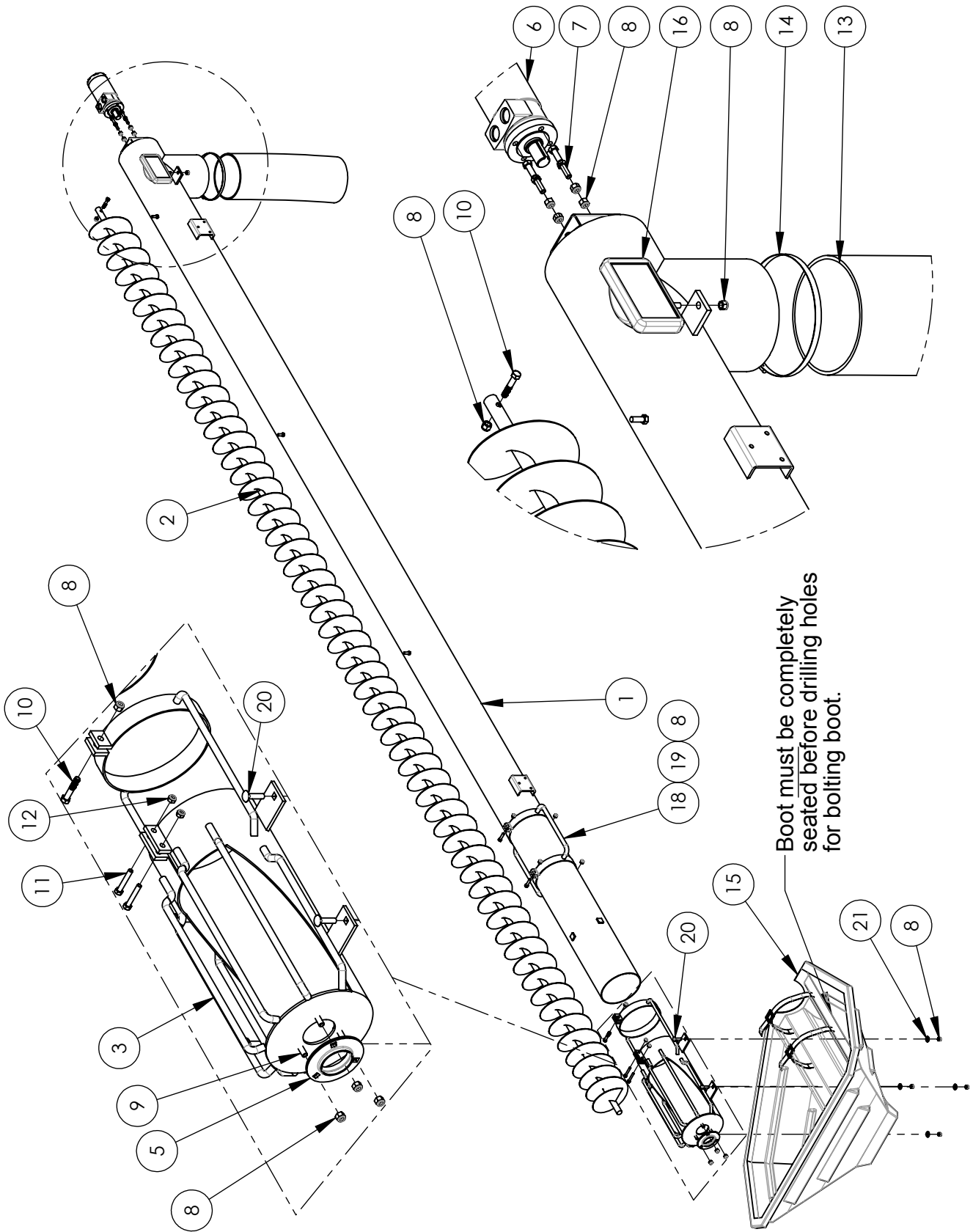


10" Auger Installation

ITEM	QTY	PART NO.	DESCRIPTION
1	1	T01248	AC2000 AUGER MOUNT
2	1	T00987	LOWER AUGER ARM
3	1	T00986	UPPER AUGER ARM
4	1	T01249	AUGER PIVOT WITH 1 1/8" PIN
5	1	ZD1208	2" O.D. x 1.28 I.D. x 1" LG LOCKING COLLAR
6	1	T01251	10" AUGER MOUNTING CRADLE
7	1	L01382	10" AUGER MOUNTING PLATE
8	1	T01170	AIR TANK LOADING AUGER ASSEMBLY
9	1	T01252	FRONT CRADLE FOR 10" AUGER
10	1	T01250	AC2000 REAR AUGER CRADLE POST
11	1	T01253	REAR CRADLE FOR 10" AUGER
12	6	B0615B	3/8 NC 1 1/2" HEX BOLT BLACK
13	16	BN06L	3/8"-16NC LOCK NUT
14	6	BU1040	5/8 x 4 x 5-1/2" U-BOLT
15	14	BN10L	5/8" NYLOCK NUT NC
16	1	L00872	5/8" x 8" x 12 1/2" BOLTING PLATE
17	4	B1285	3/4"NC x 8 1/2" LG. HEX BOLT GR.5
18	4	BN12L	3/4" NC NYLOCK NUT
19	2	GPH2001314F	1 1/4" x 13 1/2" LG. AXLE PIN - HARDENED
20	1	GP2000614B07	PIN 1 1/4" DIA. x 6 1/4" LG. - 1 HOLE
21	2	B0625	3/8" X 2 1/2" LG. GRADE 5
22	1	GP10004L03	L-PIN 5/8" DIA. x 4" LG.
23	2	B1015	5/8"NC x 1 1/2" HEX BOLT
24	1	T00953	AUGER HOLD-DOWN STRAP
25	4	GF1610	1/8" NPT GREASE FITTING
26	6	GBB150125200	1 1/2" x 1 1/4" x 2" LG. HARD BUSHING
27	1	GHP9	#9 HAIR PIN
28	8	P0160A	HOSE CLAMP 3"



8" Auger Parts



Boot must be completely seated before drilling holes for bolting boot.

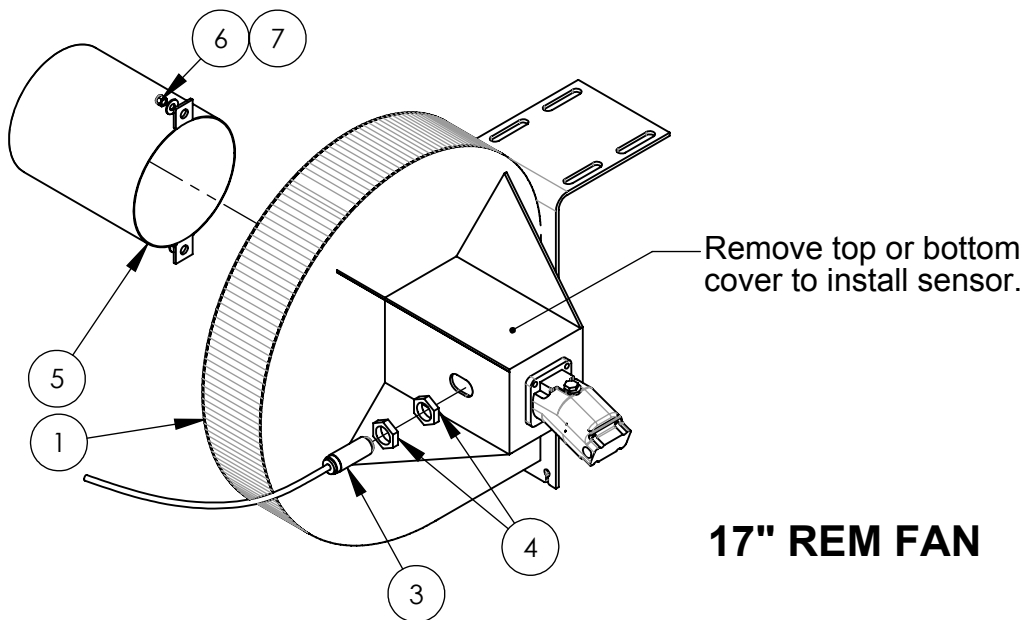
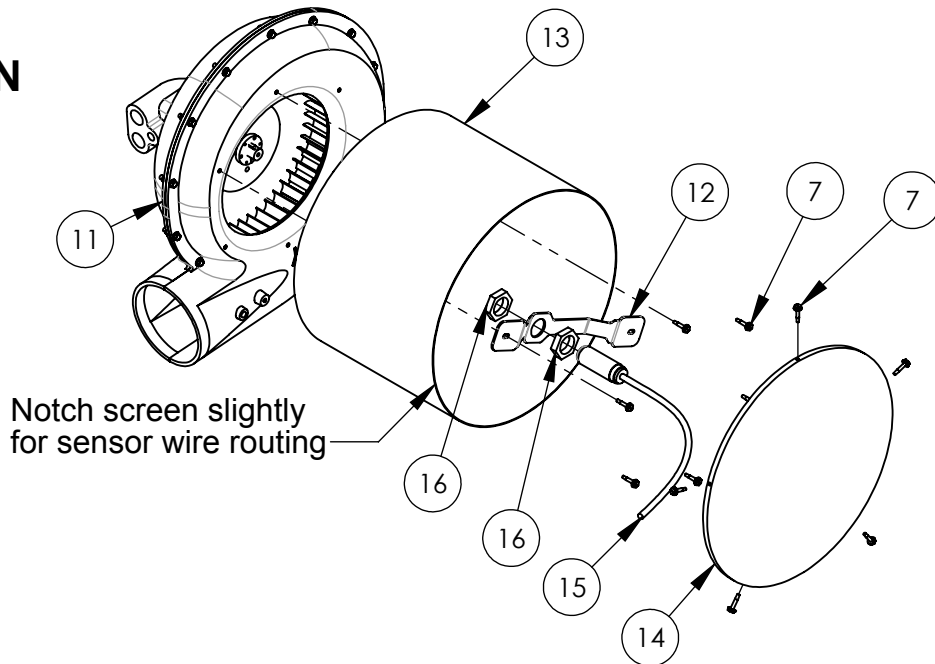
8" Auger Parts

ITEM	QTY	PART NO.	DESCRIPTION
1	1	T00090AA	AIR TANK LOADING AUGER
2	1	T00090AG	AUGER FLIGHTING
3	1	T00590AB	LOADING AUGER GUARD
4	1	T00590AC	AUGER FLANGE BEARING UC-206-17
5	2	T00590AD	AUGER BEARING FLANGE - PF 206
6	1	T00145	LOADING AUGER MOTOR
7	4	B0612	3/8 x 1 1/4" BOLT
8	18	BN06L	3/8"-16NC LOCK NUT
9	3	B0610	3/8 X 1" PLATED BOLT GR.5
10	2	B0620	3/8 X 2" HEX BOLT GR.5 PLATED
11	2	B0520	5/16"NC x 2" BOLT
12	2	BN05L	5/16" LOCK NUT
13	1	T00090AD	8" X 36" AUGER FILL HOSE
14	1	T00727	8" HOSE CLAMP
15	1	T00702	AUGER HOPPER
16	1	GL271W	WORKLIGHT
17	1	T00145-S	9.7 CU EATON (103) AUGER MOTOR - SEAL KIT
18	2	T01355	8" AUGER HANDLE
19	4	B0615B	3/8 NC 1 1/2" HEX BOLT BLACK
20	4	BC0615	3/8" x 1 1/2" CARRAIGE BOLT GR.2 PLATED
21	4	BF06	3/8" FLATWASHER

Sensor Installation

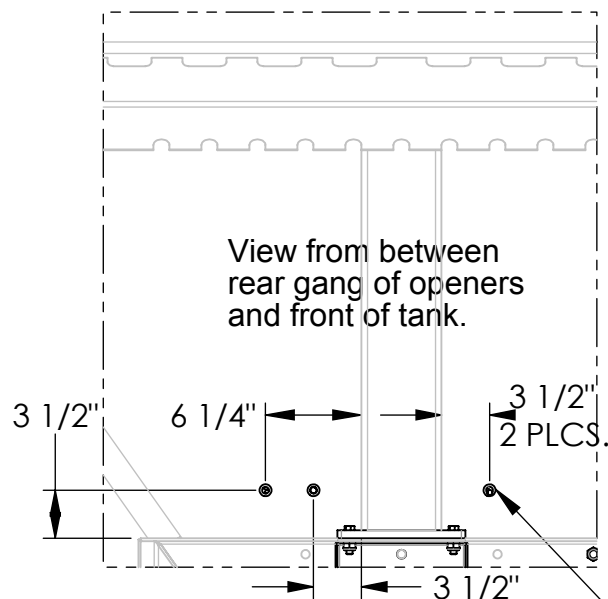
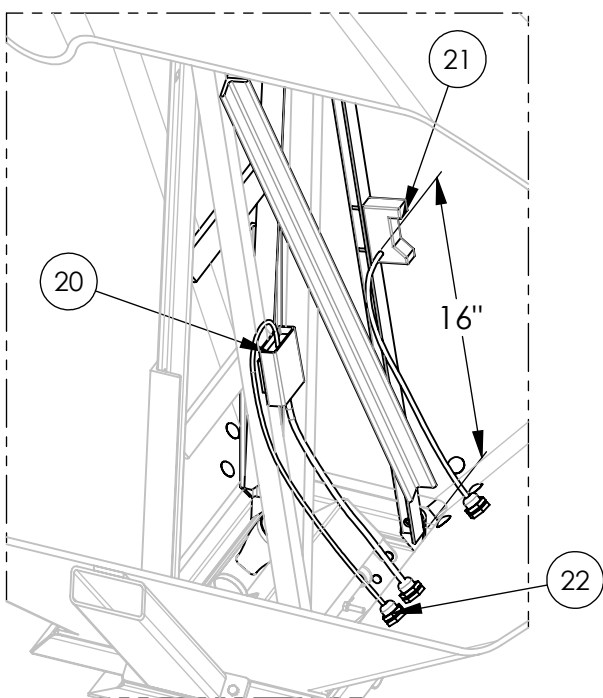
13" CRARY FAN

For information on sensor distance see Dickey John manual.

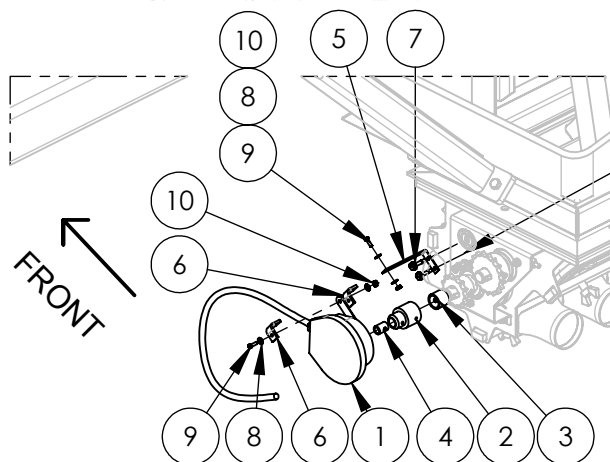


17" REM FAN

Sensor Installation

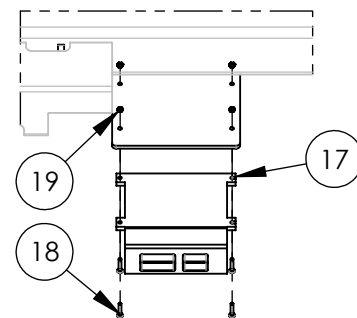


Drill 45/64 holes from outside tank — tap hole with 1/2" npt tap from inside tank and insert sensor wires followed by 1/2" npt nut attached to sensor wire also from inside tank



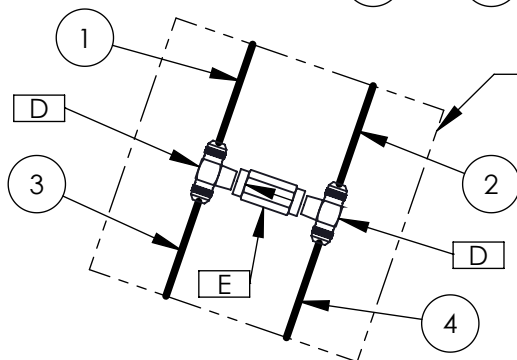
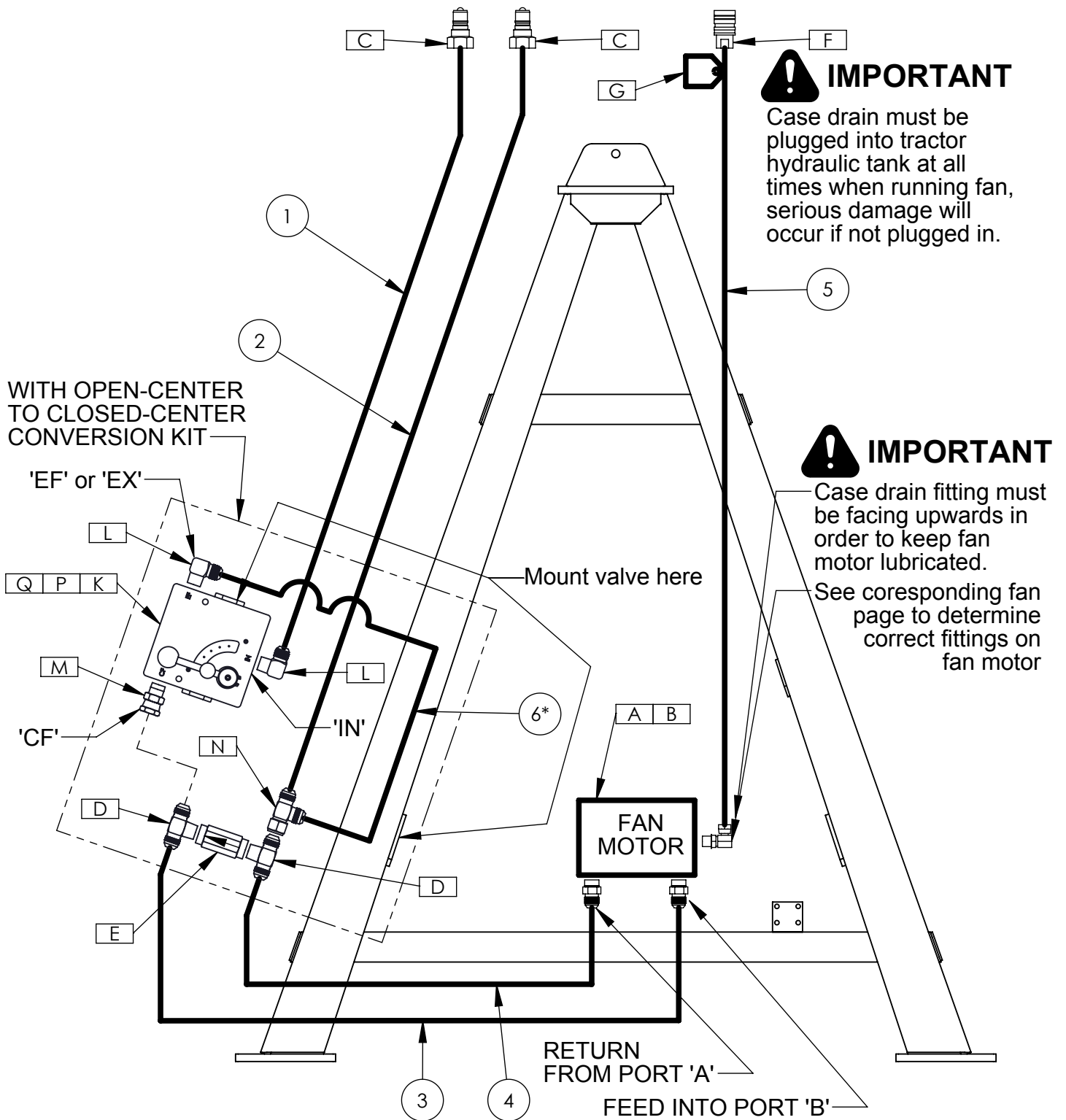
Drill thru plate with self tapping screws to mount bracket

Application rate sensor along with the brackets included in DICKEY-john kit. Self tapping screws supplied by Salford.



ITEM	QTY	PART NO.	DESCRIPTION
1	1	466820920S1	APPLICATION RATE SENSOR (PART OF KIT)
2	1	457141810AA	1" - 20MM ADAPTOR FOR APP SENSOR (PART OF KIT)
3	1	t00743	APP RATE SENSOR ADAPTOR SLEEVE
4	1	457141810AB	APP RATE SENSOR INSERT (PART OF KIT)
5	1	457141810AC	APP RATE SENSOR MOUNTING BRACKET (PART OF KIT)
6	2	457141810AD	APP RATE SENSOR RUBBER STRIP (PART OF KIT)
7	13	B0307ST	#12 x 3/4" SELF TAPPING SCREW
8	4	BF01	1/8" FLATWASHER (PART OF KIT)
9	2	B0105	#12 x 1" MACHINE SCREW (PART OF KIT)
10	2	BN01	#8-32 HEX NUT (PART OF KIT)
11	1	T00006	13" CRARY FAN
12	1	FL00365	CRARY FAN SENSOR BRACKET
13	1	T00006AA	13" CRARY FAN INLET SCREEN
14	1	T00006AB	13" CRARY FAN INLET SCREEN COVER
15	1	TDJ466970014S1	HALL EFFECT SENSOR (PART OF KIT)
16	2	TDJ466970014S1AA	HALL EFFECT SENSOR JAM NUT (PART OF KIT)
17	1	467980821S1	WSMT WORKING SET MASTER (PART OF KIT)
18	4	B0310	#12 x 1" MACHINE SCREW
19	4	BN03	#12-24 HEX NUT
20	1	466820922S1	AIR PRESSURE SENSOR (PART OF KIT)
21	1	466820721S1	BIN LEVEL SENSOR (PART OF KIT)
22	1	0708896	LIMIT SWITCH NUT

Tow Between Fan Hydraulics



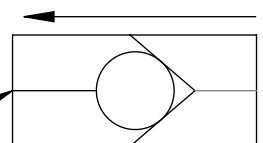
NORMAL INSTALLATION (WITHOUT CLOSED-CENTER CONVERSION KIT)



IMPORTANT

'OUT' port on check valve must always be connected to 'B' port on fan motor

FLOW DIRECTION



Tow Between Fan Hydraulics

HARDWARE			
ITEM NO.	QTY.	PART NO.	DESCRIPTION
A	1	T00557	PARKER F-11 HYD. MOTOR
B	1	T00589	SEAL KIT FOR PARKER MOTOR
C	2	H8010-5	3/4" NPT PIONEER MALE TIP
D	2	H2601-12-12-12	-12 JIC -12 JIC 3/4" NPT ALL MALE TEE
E	1	HV1155	3/4" NPT INLINE CHECK VALVE
F	1	H42504P	1/2" NPT PIONEER FEMALE COUPLER
G	1	GD192	CASE DRAIN TAG

OPTIONAL CLOSED CENTER CONVERSION KIT			
ITEM NO.	QTY.	PART NO.	DESCRIPTION
K	1	HV-RD-1975-30	ADJUSTABLE FLOW CONTROL VALVE - 30gpm
L	2	H2501-12-12	-12 JIC MALE - 3/4" NPT MALE ELBOW
M	1	H6505-12-12	3/4" NPT MALE -12 JIC FEMALE
N	1	H6602-12-12-12	-12 JIC MALE -12 JIC MALE -12 JIC FEMALE TEE
P	2	B0425	1/4"NC x 2 1/2" LG. HEX BOLT GR. 5
Q	2	BN04L	1/4"NC NYLOCK NUT

HOSES				
LABEL	QTY.	LENGTH (in)	FROM	TO
1	1	12'2"	TRACTOR	TOP CHECK VALVE TEE or FLOW CONTROL VALVE 'IN'
2	1	12'	TRACTOR	BOT. CHECK VALVE TEE
3	1	4'	TOP CHECK VALVE TEE	FAN MOTOR 'B'
4	1	3'6"	BOT. CHECK VALVE TEE	FAN MOTOR 'A'
5	1	13'	FAN MOTOR CASE DRAIN	HYD. TANK ON TRACTOR
6*	1	3'	FLOW CONTROL VALVE 'EF' or 'EX'	BOT. CHECK VALVE TEE

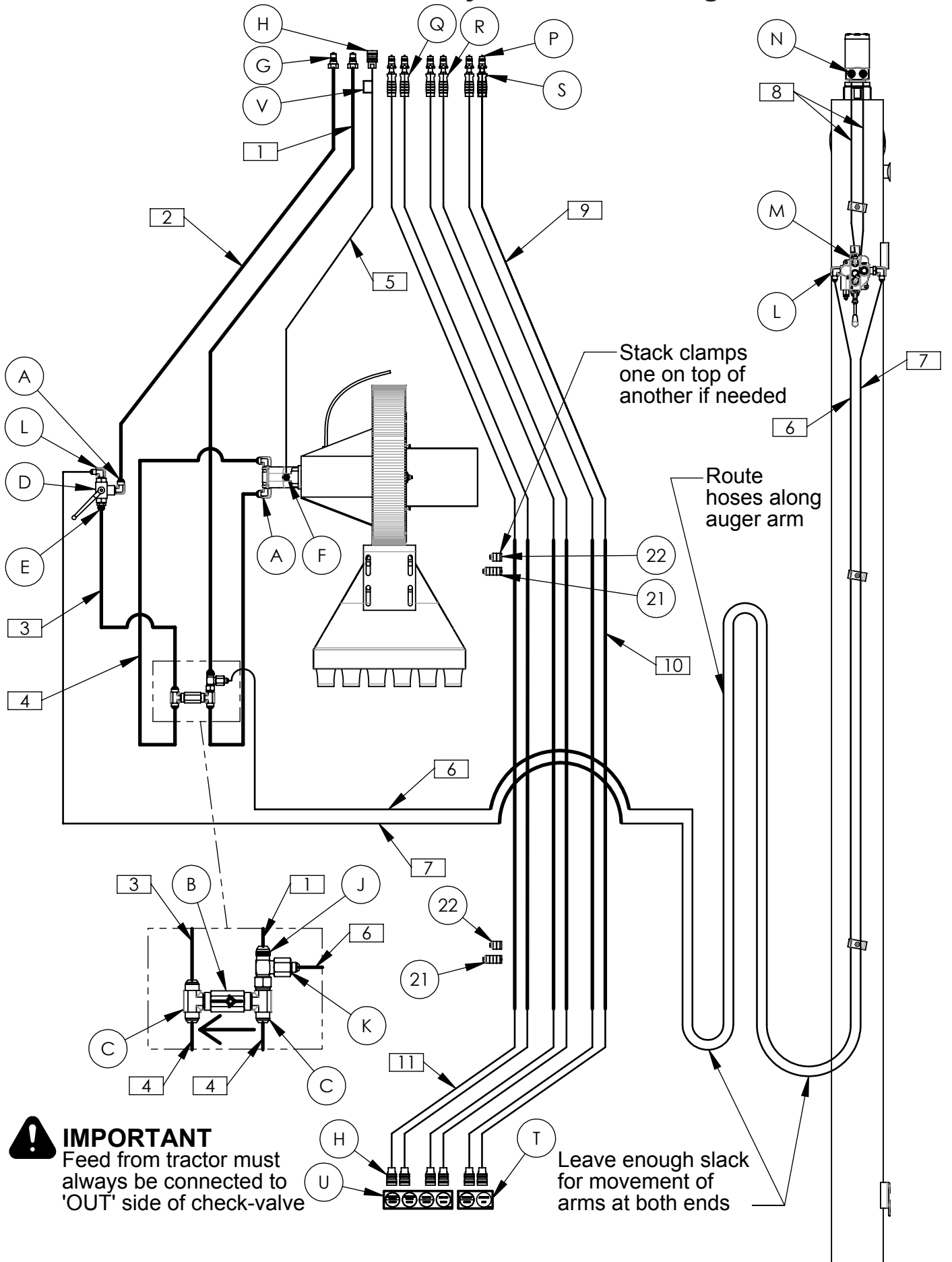


Hose routing with flow control valve



Hose routing without flow control valve

Tow Between Fan Hydraulics with Auger

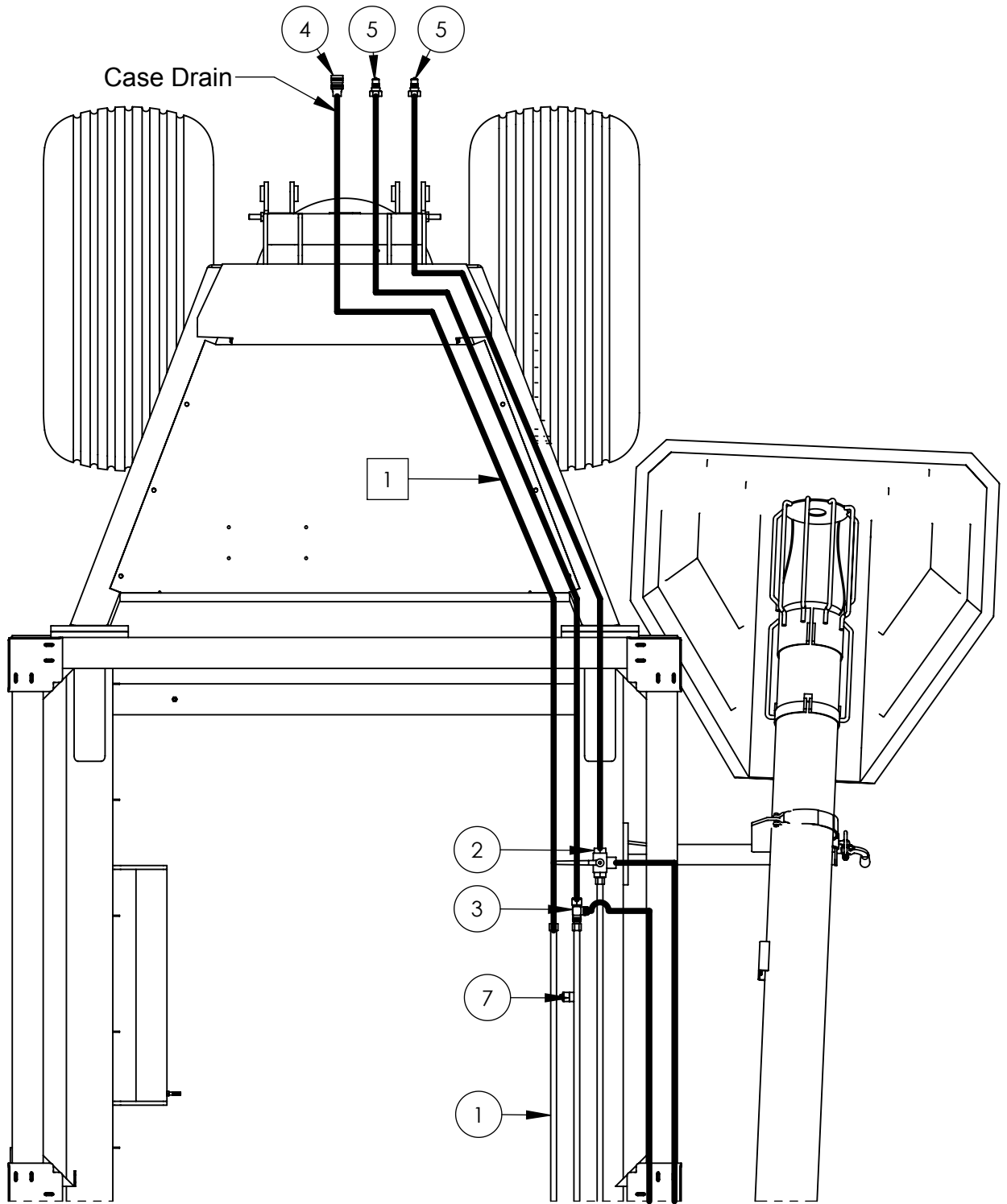


Tow Between Fan Hydraulics with Auger

Hardware List			
ITEM	QTY	PART NO.	DESCRIPTION
A	3	H2501-12-12	-12 JIC MALE to -12 NPT MALE 90DEG ELBOW
B	1	HV1155	-12 NPT INLINE CHECK VALVE
C	2	H2601-12-12-12	-12 JIC to -12 JIC to - 12 NPT ALL MALE TEE
D	1	hv1170	3 WAY -12 NPT BALL VALVE
E	1	H2404-12-12	-12 NPT TO -12 JIC NIPPLE
F	1	H1404-06-06	-06M NPT TO -06F NPT SWIVEL
G	2	H8010-5	-12 NPT PIONEER MALE TIP TO FIT 1/2" REMOTE
H	7	H42504P	-08 NPT PIONEER FEMALE COUPLER
J	1	H6602-12-12-12	12MJ-12FJS-12MJ TEE
K	1	H2406-12-08	12 FJ - 08 MJ REDUCER
L	3	H2501-8-12	-08 JIC MALE to -12 NPT MALE 90DEG ELBOW
M	2	H2501-8-8	-08 JIC MALE to -08 NPT MALE 90DEG ELBOW
N	2	H6400-8-10-0	-08 JIC TO -10 ORB NIPPLE
P	6	H80104P	1/2" NPT MALE PIONEER COUPLER
Q	1	HG-PT22E22R21R	PAIR OF EXTEND/RETRACT RED RED/GREY GRIPS
R	1	HG-PT24E24R21R	PAIR OF EXTEND/RETRACT GREEN GREEN/GREY GRIPS
S		HG-PT23E23R21R	PAIR OF EXTEND/RETRACT BLACK BLACK/GREY GRIPS
T	1	GD199	AIR CART REAR HYD STICKER
U	1	GD198	AIR CART REAR HYD STICKER
v	1	GC192	CASE DRAIN DECAL
21	2	T00739	
22	2	T00722	

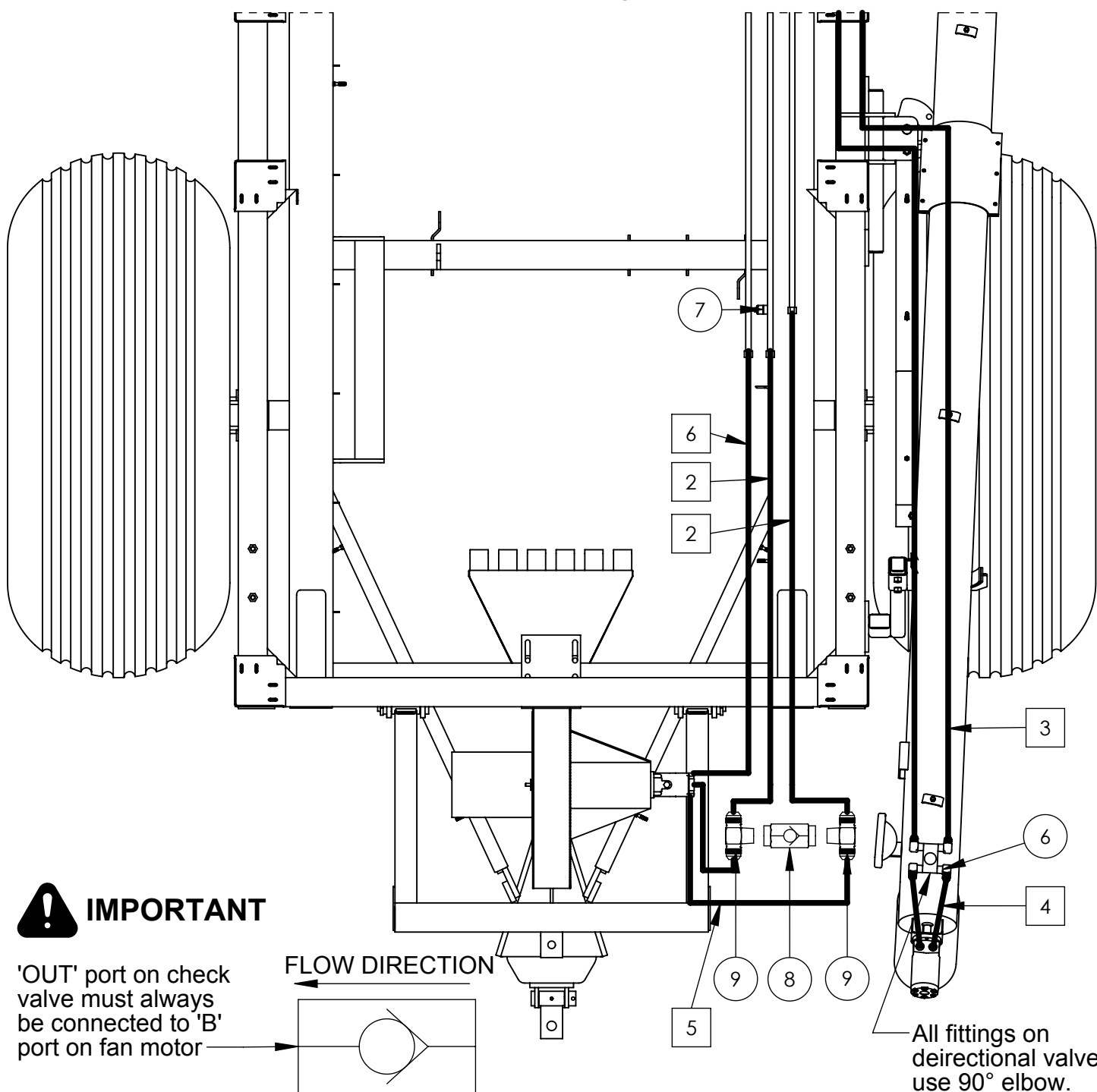
Hose List				
ITEM	QTY.	LENGTH (FT-IN)	LENGTH (CM)	DESCRIPTION
1	1	12'	366	TRACTOR TO CHECK-VALVE
2	1	10'	305	TRACTOR TO 3-WAY BALL-VALVE
3	2	1'6"	46	3-WAY BALL-VALVE TO CHECK-VALVE
4	1	3'	91	CHECK-VALVE TO FAN
5	2	11'	335	CASE DRAIN TO TRACTOR
6	2	36'6"	1113	3-WAY BALL-VALVE TO AUGER VALVE
7	6	34'	1036	AUGER RETURN TO CHECK-VALVE RETURN
8	1	3'	91	TOP AUGER VALVE TO AUGER MOTOR
9	6			TRACTOR TO STEEL LINE
10	6			STEEL LINE
11	6			STEEL LINE TO REAR OF CART

Tow Behind Fan Hydraulics



HOSE #	QTY	LENGTH (IN)	FROM	TO
1	3		TRACTOR	STEEL LINE
2	2		STEEL LINE	CHECK VALVE
3	2		TEE/BALL VALVE	DIRECTIONAL VALVE
4	2		DIRECTIONAL VALVE	AUGER MOTOR
5	2		CHECK VALVE	FAN MOTOR
6	1		STEEL LINE	FAN MOTOR

Tow Behind Fan Hydraulics



ITEM NO.	QTY.	PART NUMBER	DESCRIPTION
1	3	T12FJ12FJ96	3/4" TUBE WITH FEMALE JIC SWIVEL FITTINGS ON BOTH ENDS
2	1	HV1170	3/4" 3 WAY-BALL VALVE
3	1	H6602-12-12-12	12MJ-12FJS-12MJ TEE
4	1	H42504P	1/2" NPT PIONEER FEMALE COUPLER
5	2	H8010-5 MOD	3/4" NPT PIONEER MALE TIP TO FIT 1/2" REMOTE
6	4	H2501-12-12	-12 JIC MALE - 3/4 NPT 90 DEG MALE ELBOW
7	4	T00723	3/4" HYDRAULIC HOSE CLAMP
8	1	HV1155	3/4" NPT INLINE CHECK VALVE
9	2	H2601-12-12-12	-12 JIC -12 JIC 3/4" NPT ALL MALE TEE

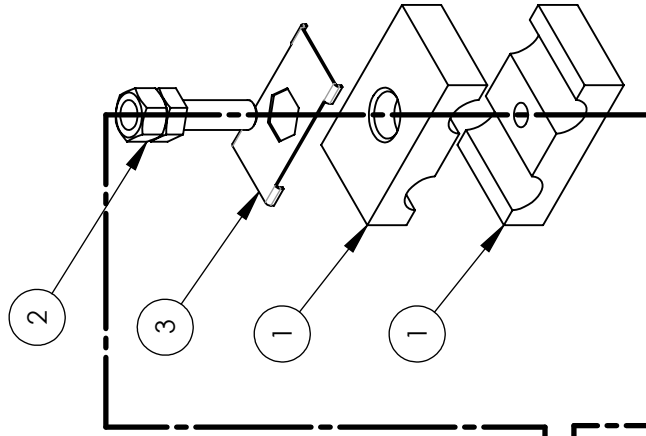
Hydraulic Tube Clamp Details

ITEM	QTY	PART NO.	DESCRIPTION
1	2	T00722AB	HYDRAULIC TUBE CLAMP
2	1	T00739AA	Connecting Bolt
3	1	T00739AB	CLAMP LOCKING PLATE

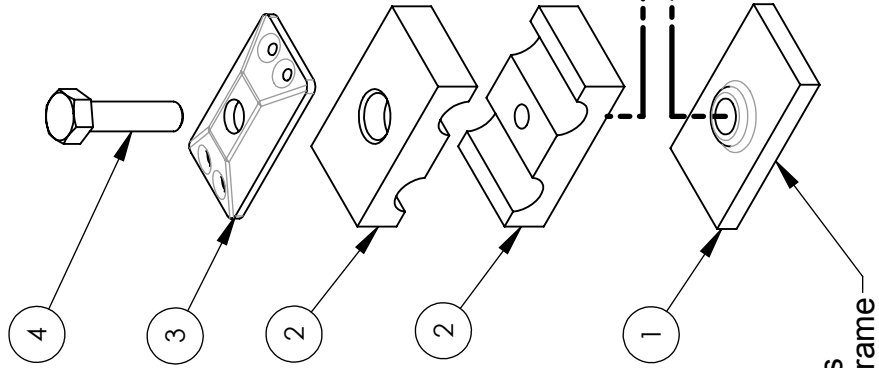
ITEM	QTY	PART NO.	DESCRIPTION
1	1	T00722AA	1/2" TWIN HYDRAULIC TUBE CLAMP BASE PLATE
2	2	T00722AB	HYDRAULIC TUBE CLAMP
3	1	T00722AC	HYDRAULIC CLAMP CAP
4	1	B0512	5/16"NC x 1 1/4" HEX BOLT GR. 5 PLATED

ITEM	QTY	PART NO.	DESCRIPTION
1	1	T00723AA	3/4" TWIN HYDRAULIC TUBE CLAMP BASE PLATE
2	2	T00723	3/4" HYDRAULIC HOSE CLAMP
3	1	T00723AC	3/4" HYDRAULIC CLAMP CAP
4	1	B0512	5/16"NC x 1 1/4" HEX BOLT GR. 5 PLATED

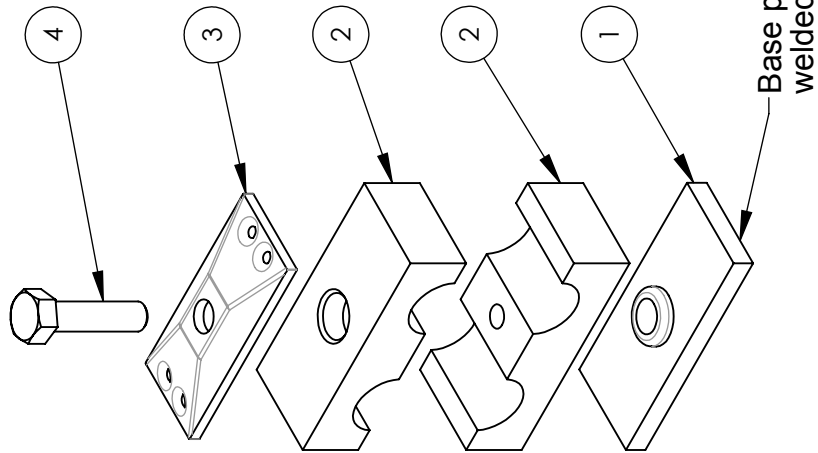
Kit sold as shown
T00739



Kit sold as shown
T00722

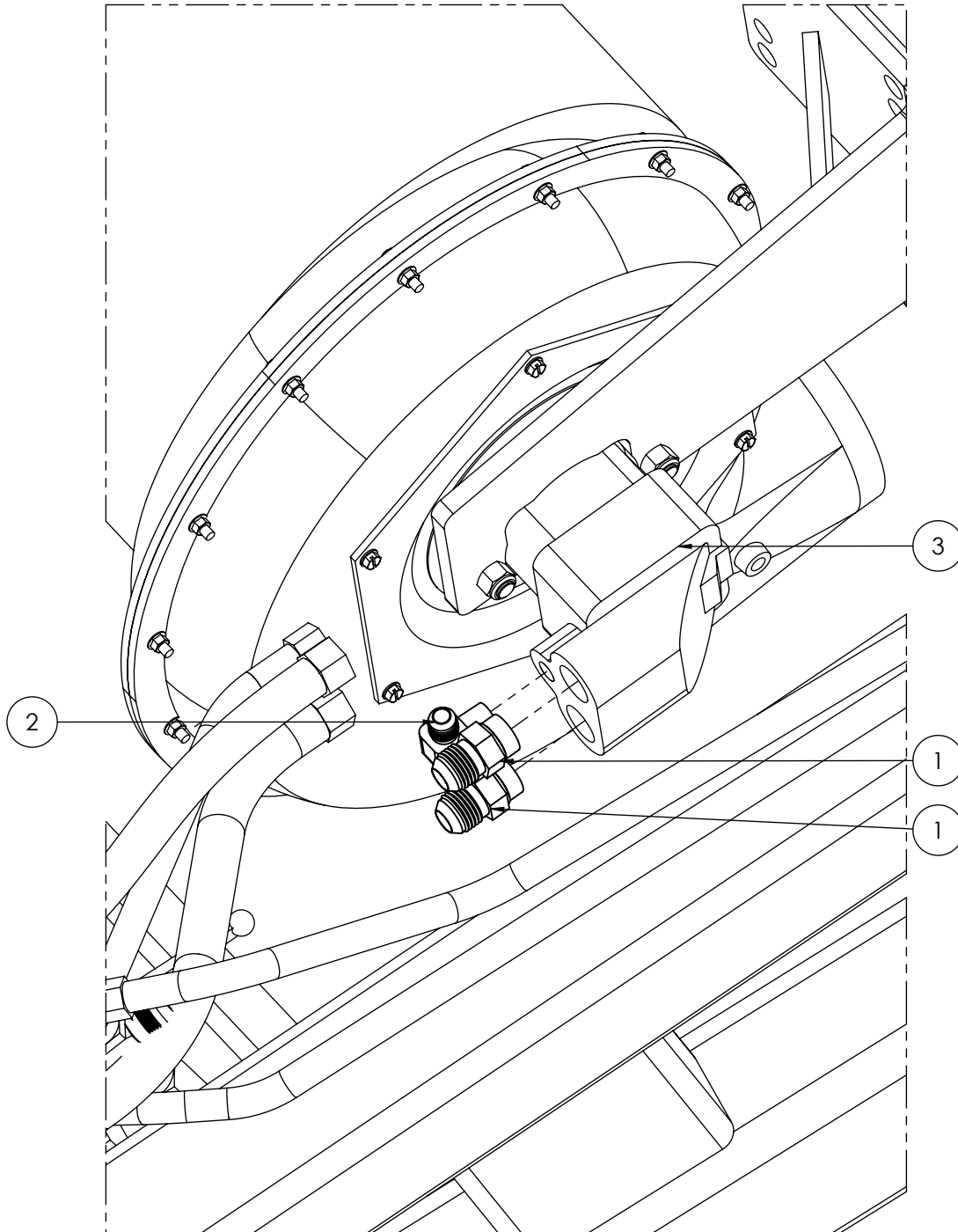


Kit sold as shown
T00723



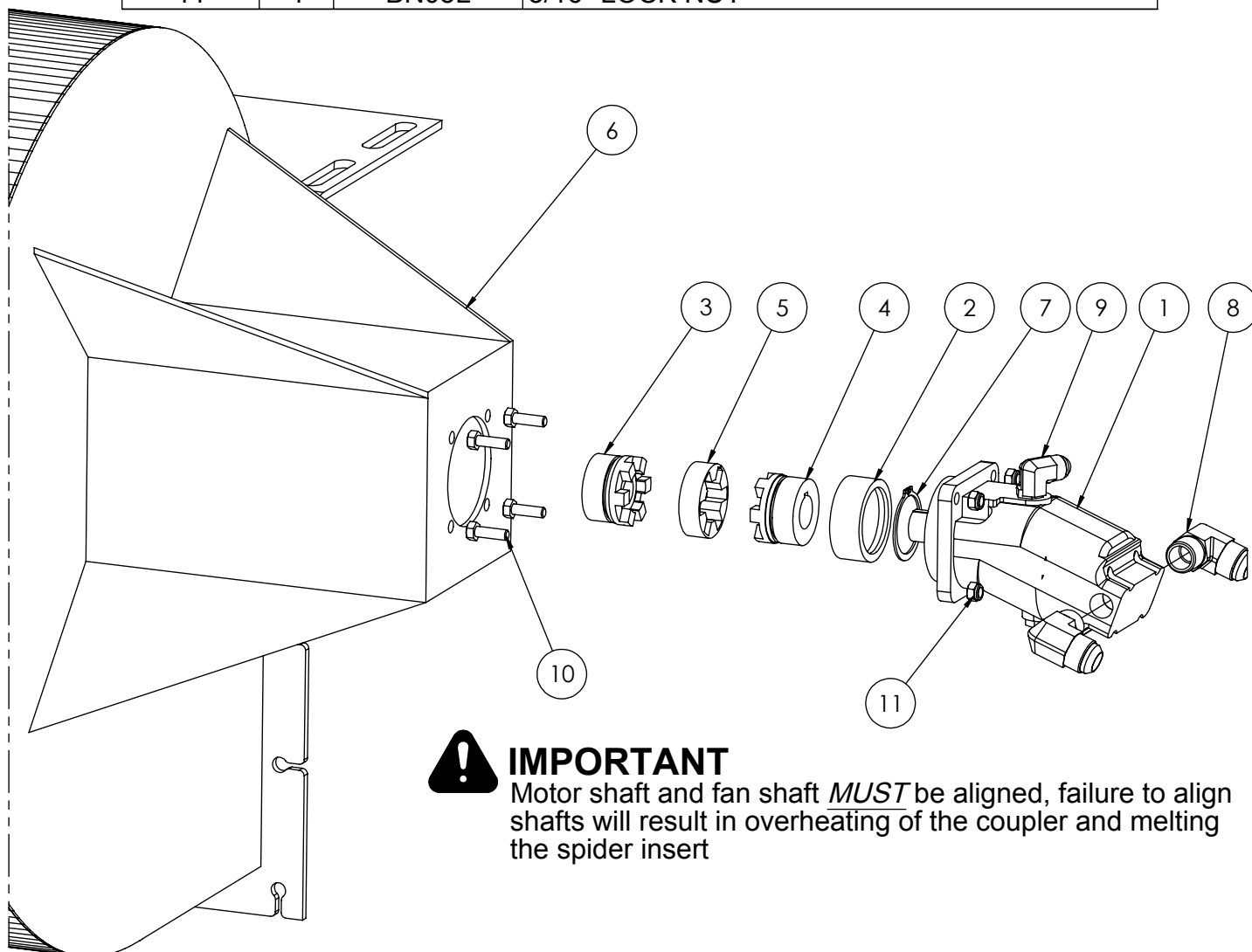
13" Fan Motor Hydraulics

ITEM NO.	QTY.	PART NO.	DESCRIPTION
1	2	H6400-12-12	12 MALE JIC - 12 MALE ORING FITTING
2	1	H2501-8-8	-8 JIC MALE - 1/2" NPT MALE 90 DEG ELBOW
3	1	T00557	PARKER F-11 HYD MOTOR
4	1	T00589	SEAL KIT FOR PARKER MOTOR



17" Fan Motor Hydraulics

ITEM NO.	QTY.	PART NO.	DESCRIPTION
1	1	T00355	EATON MOTOR
2	1	T00356AD	STAINLESS STEEL INSERT COVER
3	1	T00356AA	20mm BORE QUICKFLEX COUPLING
4	1	T00356AB	1" BORE QUICKFLEX COUPLING
5	1	T00356AC	HIGH TEMP SPIDER INSERT
6	1	T00354	17" REM FAN
7	1	T00356AE	1 7/8" EXTERNAL RETAINING RING
8	2	H2501-12-12	-12 JIC MALE to -12 NPT MALE 90DEG ELBOW
9	1	H2501-8-8	-08 JIC MALE to -08 NPT MALE 90DEG ELBOW
10	4	B0510	5/16"NC x 1" HEX BOLT GR. 5 PLATED
11	4	BN05L	5/16" LOCK NUT

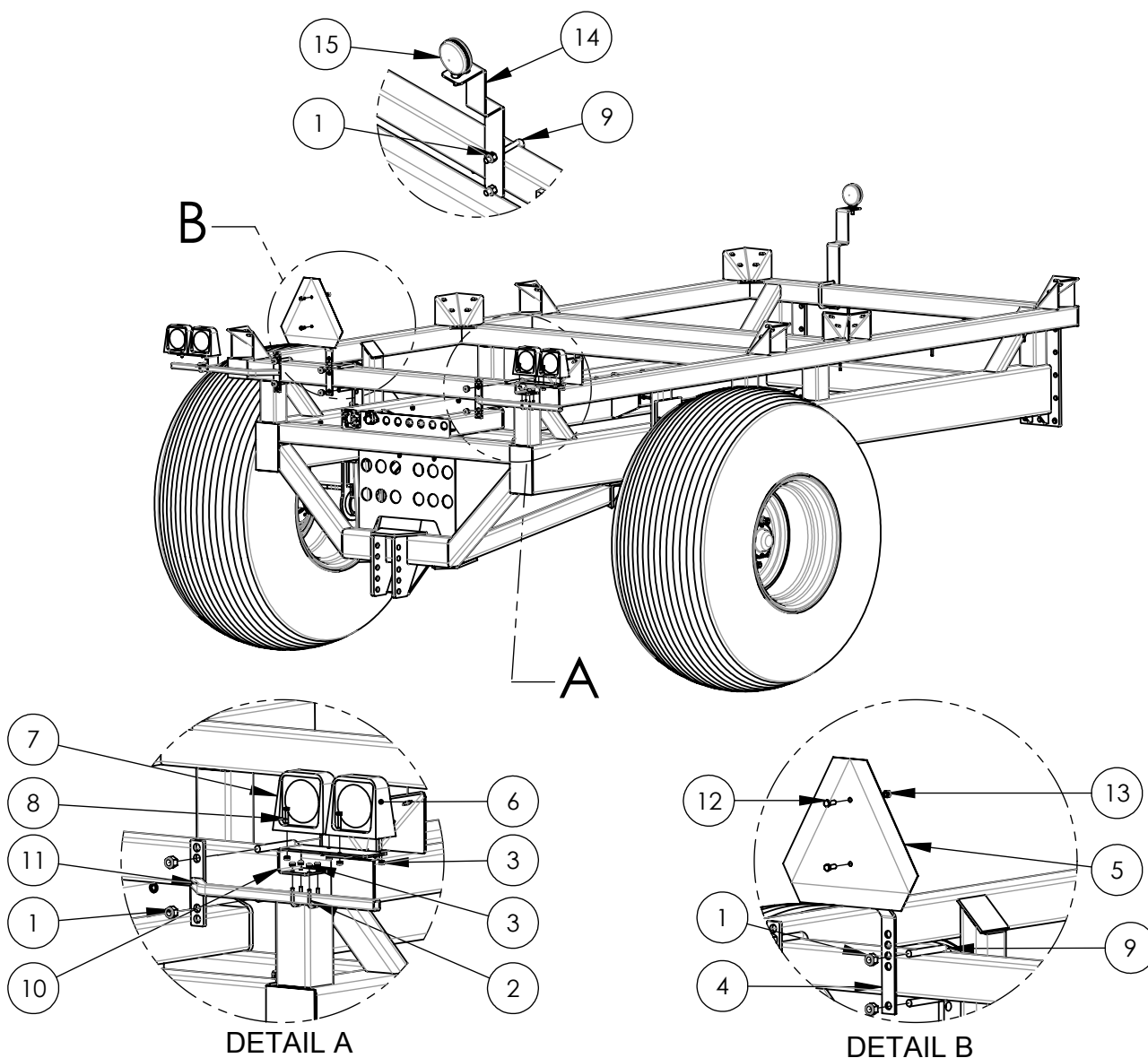


IMPORTANT

Motor shaft and fan shaft MUST be aligned, failure to align shafts will result in overheating of the coupler and melting the spider insert

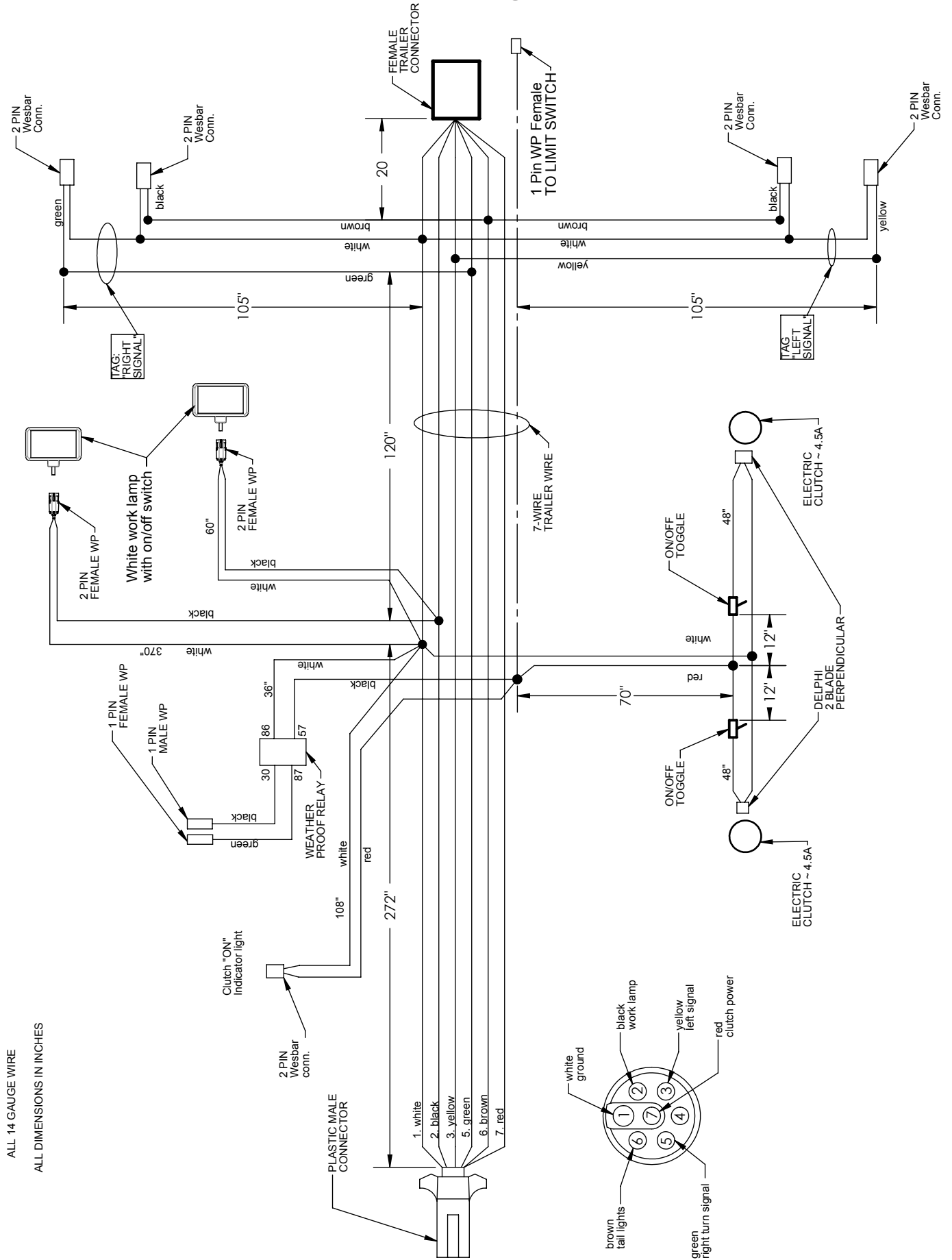
Install couplings, snap ring and cover on shafts before mounting motor. Mount motor and adjust spacing between couplings ensuring they are not touching and tighten set screws on couplers. Place spider insert between couplings and place cover over top. Install snap ring behind cover to secure it.

Lights and SMV

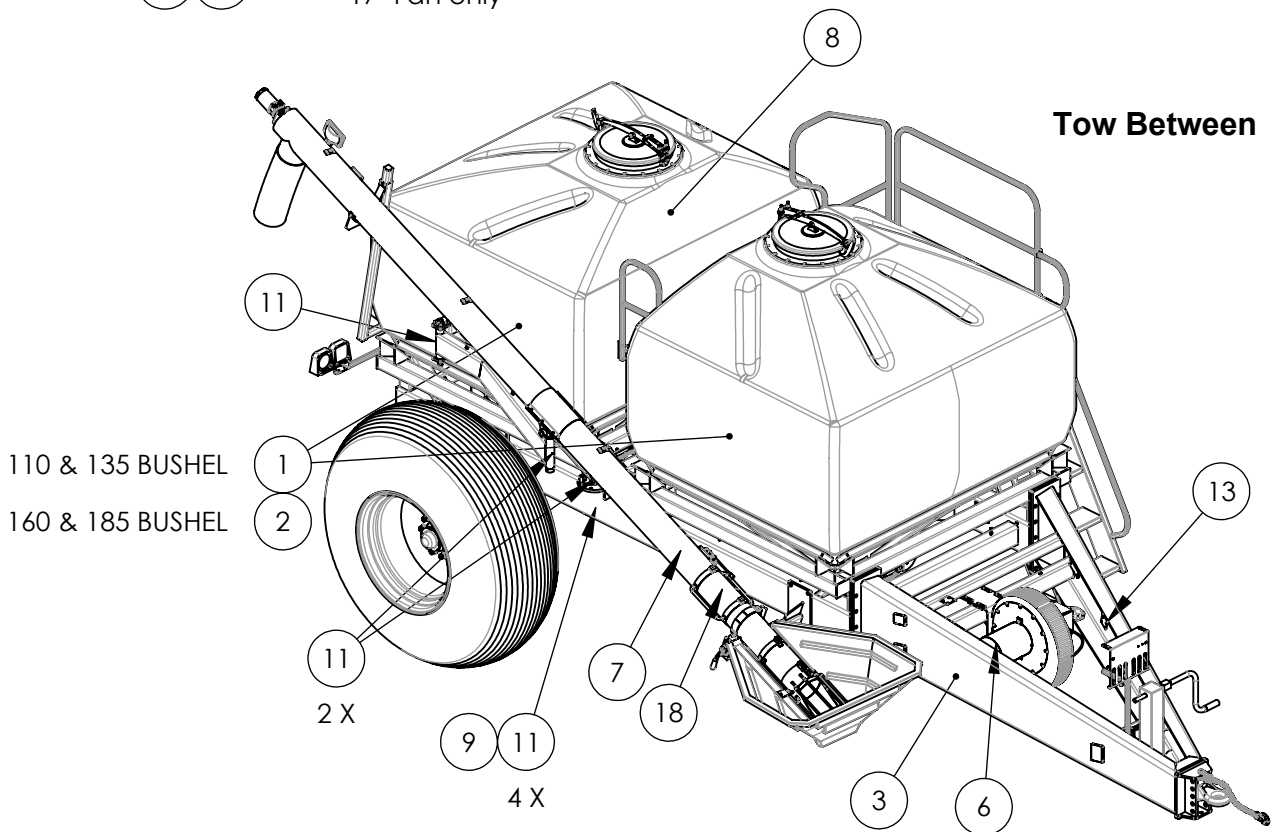
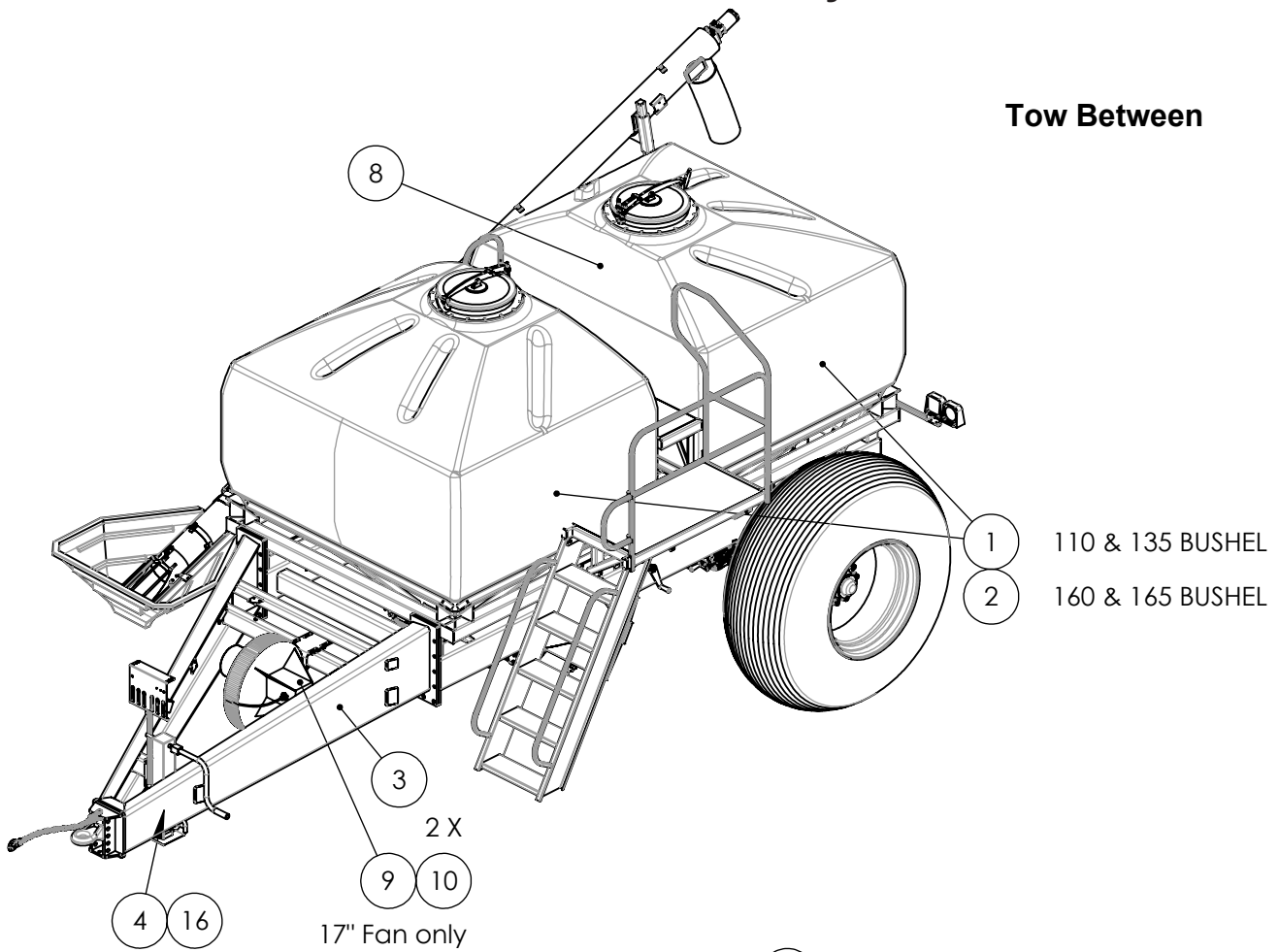


ITEM	QTY	PART NO.	DESCRIPTION
1	8	BN10L	5/8" NYLOCK NUT NC
2	4	BU0410	1/4 x 1" x 1 1/2" U-BOLT
3	16	BN04L	1/4" LOCK NUT
4	1	L01403	OFFSET SMV MOUNTING BRACKET
5	1	GAP103NS	SMV SIGN
6	2	GL767762-AA	ORANGE LIGHT
7	2	GL767762-R	RED LIGHT
8	8	B0412	1/4" NC x 1 1/2" HEX BOLT
9	4	BU1040	5/8 x 4 x 5-1/2" U-BOLT
10	2	L00425	OUTSIDE LIGHT MOUNTING PLATE
11	2	A60054	LIGHT BRACKET (LONG)
12	2	B0610	3/8" X 1" LG. GRADE 5
13	2	BN06L	3/8"-16NC LOCK NUT
14	1	FL00511	CLUTCH "ON" INDICATOR LIGHT BRACKET
15	1	GL272WAA	DBL FACE AMBER/AMBER LOLLIPOP W/WESBAR CONN.

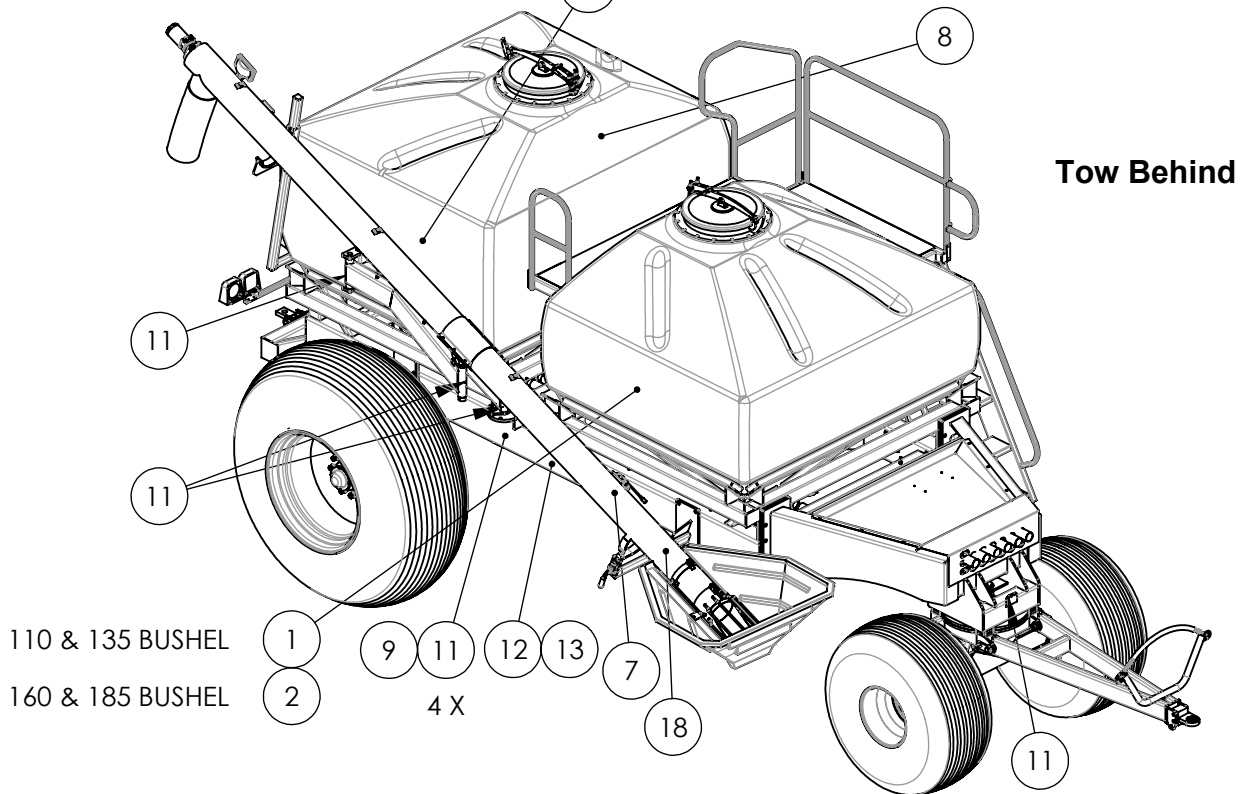
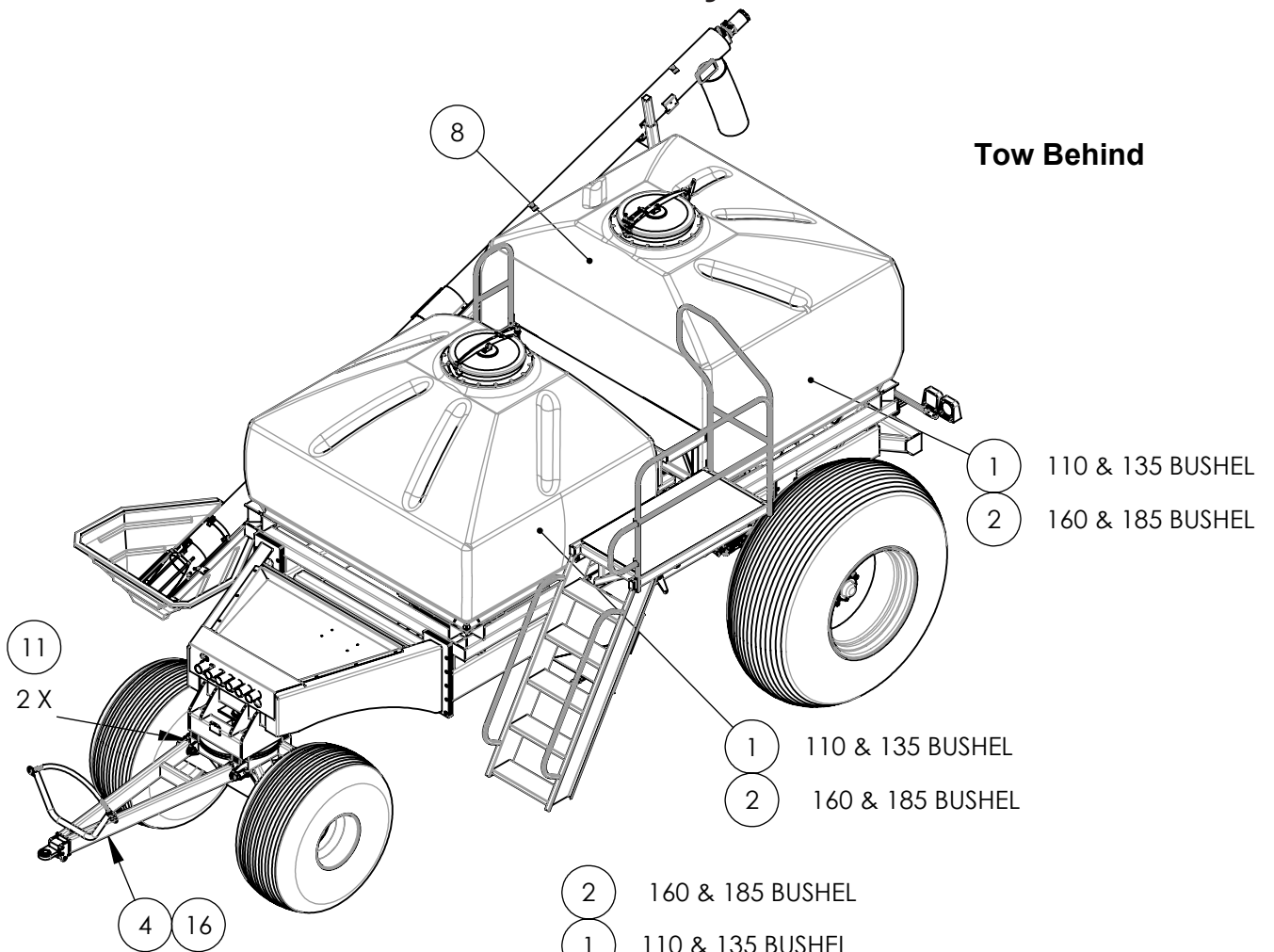
Tow Between Wiring Harness



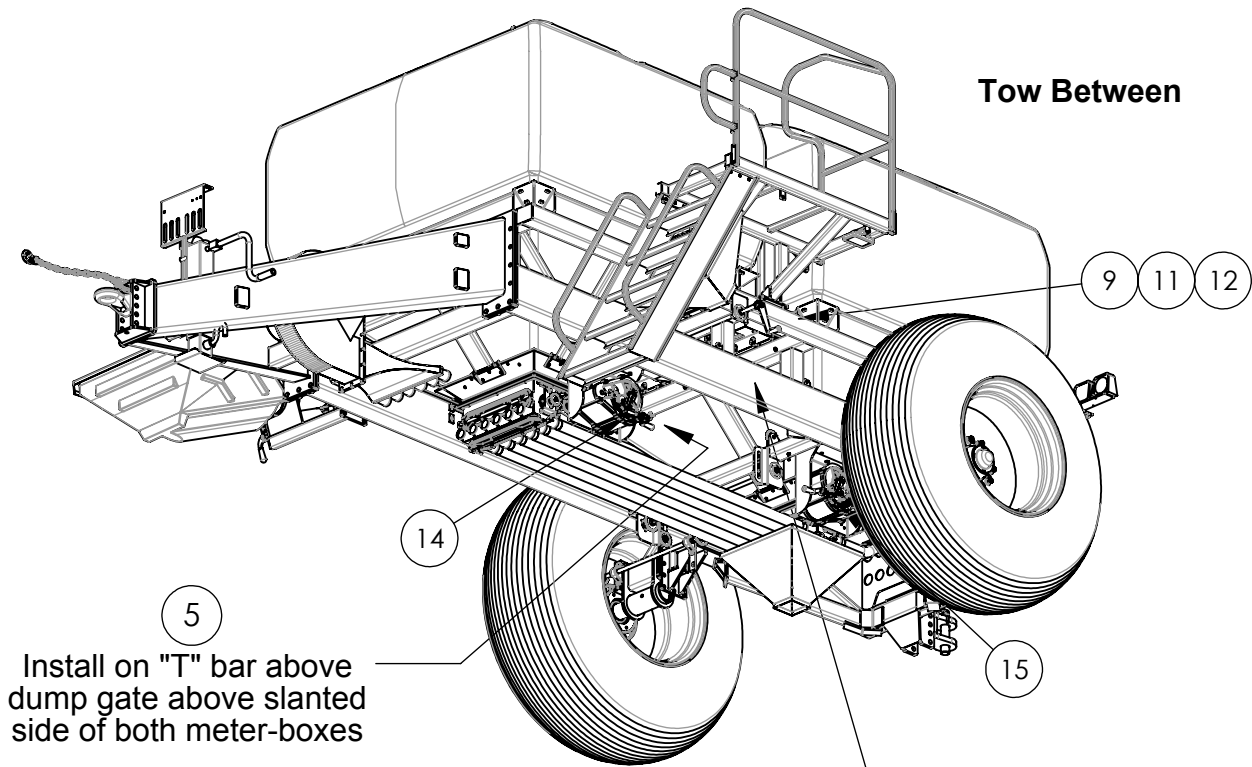
Tow Between Decal Layout



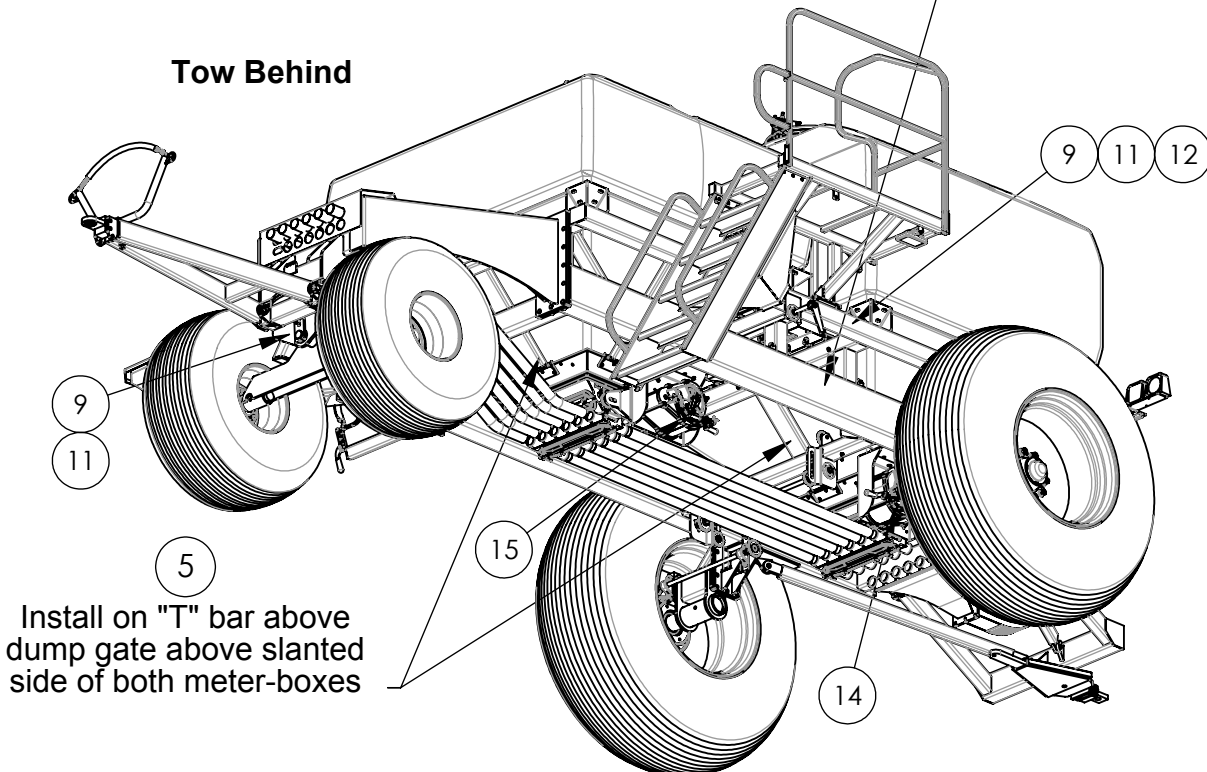
Tow Behind Decal Layout



TBT & TBH Bottom Decal Layout



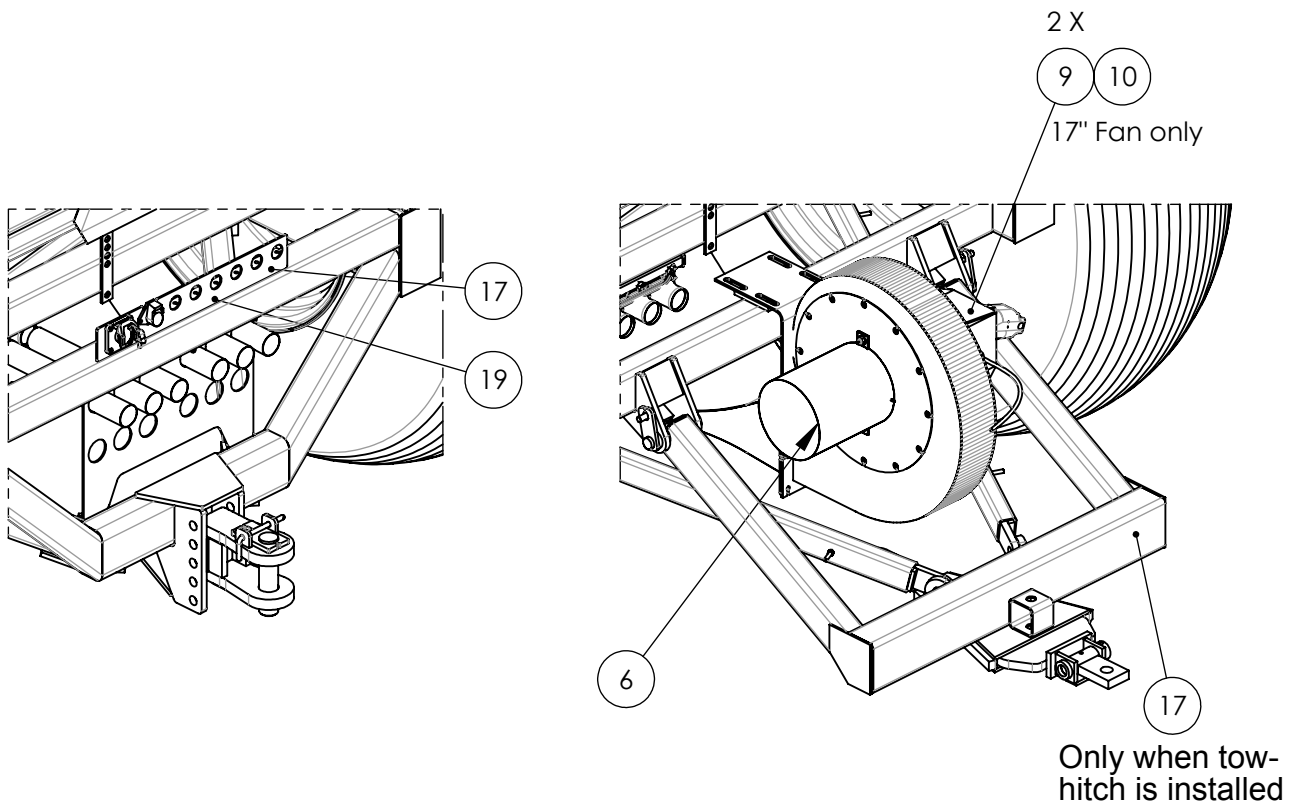
Install Calibration chart here
Refer to *Calibration Chart
Reference* page for
choosing the proper chart.
Ground drive only



Decal Boms TBT & TBH

ITEM	QTY/TBT	QTY/TBH	PART NUMBER	DESCRIPTION
1	X	X	GD205	SMALL SALFORD STICKER FOR PLASTIC TANKS
2	X	X	GD203	BIG SALFORD STICKER FOR PLASTIC TANKS
3	2	2	GD102	WWW SALFORD STICKER
4	1	1	GDSW2	USE PROPER TOOLS AND READ MANUAL
5	2	2	GD189	METER-BOX DOOR DECAL (DO NOT OPEN)
6	1	1	GDSW114	FAN HAZARD DECAL
7	1	1	GDT2	DANGER FOR ELECTROCUTION HAZARD
8	1	1	GD188	CONFINED SPACE DECAL
9	3	4	GD108	HIDDEDN GREASE FITTING
10	1	1	GD10810	GREASE EVERY 10 HOURS
11	7	10	GD10840	GREASE EVERY 40 HOURS
12	2	2	GDSW108	DANGER STICKER, ROTATING CHAIN HAZARD
13	1	1	GD102	VALVE TO FAN DIVERTER VALVE DECAL
14	1	1	GD07100	DECAL FOR TD702100 BOX 0-10 L TO R
15	1	1	GD07600	DECAL FOR TD702600 BOX 10-0 L TO R
16	1	1	GDSW700	HIGH PRESSURE FLUID HAZARD
* 17	1	1	GD199	AIR CART REAR HYD STICKER BLACK
18	1	1	GDSW100	ROTATING FLIGHTING KEEP AWAY DECAL
19	1	0	GD198	AIR CART REAR HYD STICKER RED & GREEN

ITEM 1 & 2 CAN CHANGE DEPENDING ON TANK SIZE
 * ONLY USED WHEN TOW-HITCH IS INSTALLED



Decal Legend



GD205 (1)



GD102 (3)



GD203 (2)



GDSW2 (4)



GD189 (5)



GDSW114 (6)



GDT2 (7)



GD188 (8)



GD108 (9)



GD10810 (10)



GD10840 (11)



GDSW108 (12)



GD201 (13)



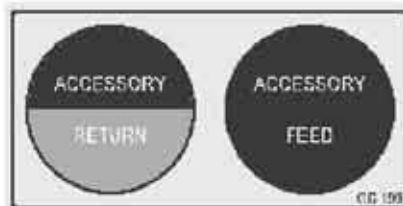
GDSW100 (18)



GD072100 (14)



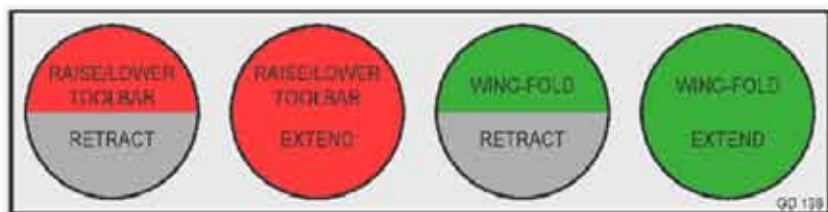
GDSW700 (16)



GD199 (17)



GD072600 (15)



GD198 (19)

Calibration Chart Selector Chart

SALFORD												
4 OUTLETS		25FT MACHINE CALIBRATION CHART (LB/ACRE) - 44 HANDLE TURNS										
GROUND DRIVE TIRE: 23.1 x 26 OR 28L x 26		ZEROMAX SETTING										
ROLLER TYPE	MATERIAL	0.0	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0	9.0	10.0
PEGGED ROLLERS	WHEAT	0	3	12	27	46	71	100	133	174	219	269
	BARLEY	0	2	8	17	30	46	66	88	114	143	176
	OATS	0	2	7	14	24	42	60	81	105	131	161
	RYE	0	3	14	31	53	82	116	156	201	253	310
	GRASS	0	1	5	12	21	32	45	61	78	98	121
	CANOLA	0										
	SOYBEANS	0	3	12	27	47	72	102	137	177	223	273
	CORN	0	3	13	28	49	73	106	143	184	231	284
	POTASH	0	3	14	32	55	84	120	161	208	261	320
	UREA	0	3	12	27	48	73	103	139	180	225	277
MAP	0	3	14	32	55	84	119	161	208	261	320	
CONVERSION FACTORS (MULTIPLY BY THE FACTOR TO OBTAIN OUTPUT)		FLUTED ROLLERS - 1.27										
		HIGH OUTPUT ROLLERS - 1.49										
CALIBRATION: 1/10 ACRE @ 44 TURNS (TURN HANDLE 44 TURNS AND MULTIPLY OUTPUT BY 10 TO OBTAIN LB./ACRE)												
(IMPORTANT!)												
CHARTS ARE ONLY A GUIDE. RATES ARE AFFECTED BY SEED SIZE AND QUALITY, WHEEL SLIPPAGE, TIRE TYPE AND PRESSURE, ETC.												

SAMPLE METERBOX CALIBRATION CHART

USE GRID BELOW TO SELECT PROPER CHART

METERBOX CALIBRATION CHART SELECTION GRID				
WIDTH/OUTLETS	TIRE SIZE			
	23.1 x 26 OR 28L x 26	30.5 X 32	710 / 70R42	800 / 65R32
15FT / 2 OUTLET	GDCAL215A	GDCAL215B	GDCAL215C	GDCAL215D
22FT / 4 OUTLET	GDCAL422A	GDCAL422B	GDCAL422C	GDCAL422D
25FT / 4 OUTLET	GDCAL425A	GDCAL425B	GDCAL425C	GDCAL425D
30FT / 4 OUTLET	GDCAL430A	GDCAL430B	GDCAL430C	GDCAL430D
30FT / 6 OUTLET	GDCAL630A	GDCAL630B	GDCAL630C	GDCAL630D
35FT / 4 OUTLET	GDCAL435A	GDCAL435B	GDCAL435C	GDCAL435D
35FT / 6 OUTLET	GDCAL635A	GDCAL635B	GDCAL635C	GDCAL635D
40FT / 4 OUTLET	GDCAL440A	GDCAL440B	GDCAL440C	GDCAL440D
40FT / 6 OUTLET	GDCAL640A	GDCAL640B	GDCAL640C	GDCAL640D
55FT / 6 OUTLET	GDCAL655A	GDCAL655B	GDCAL655C	GDCAL655D



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