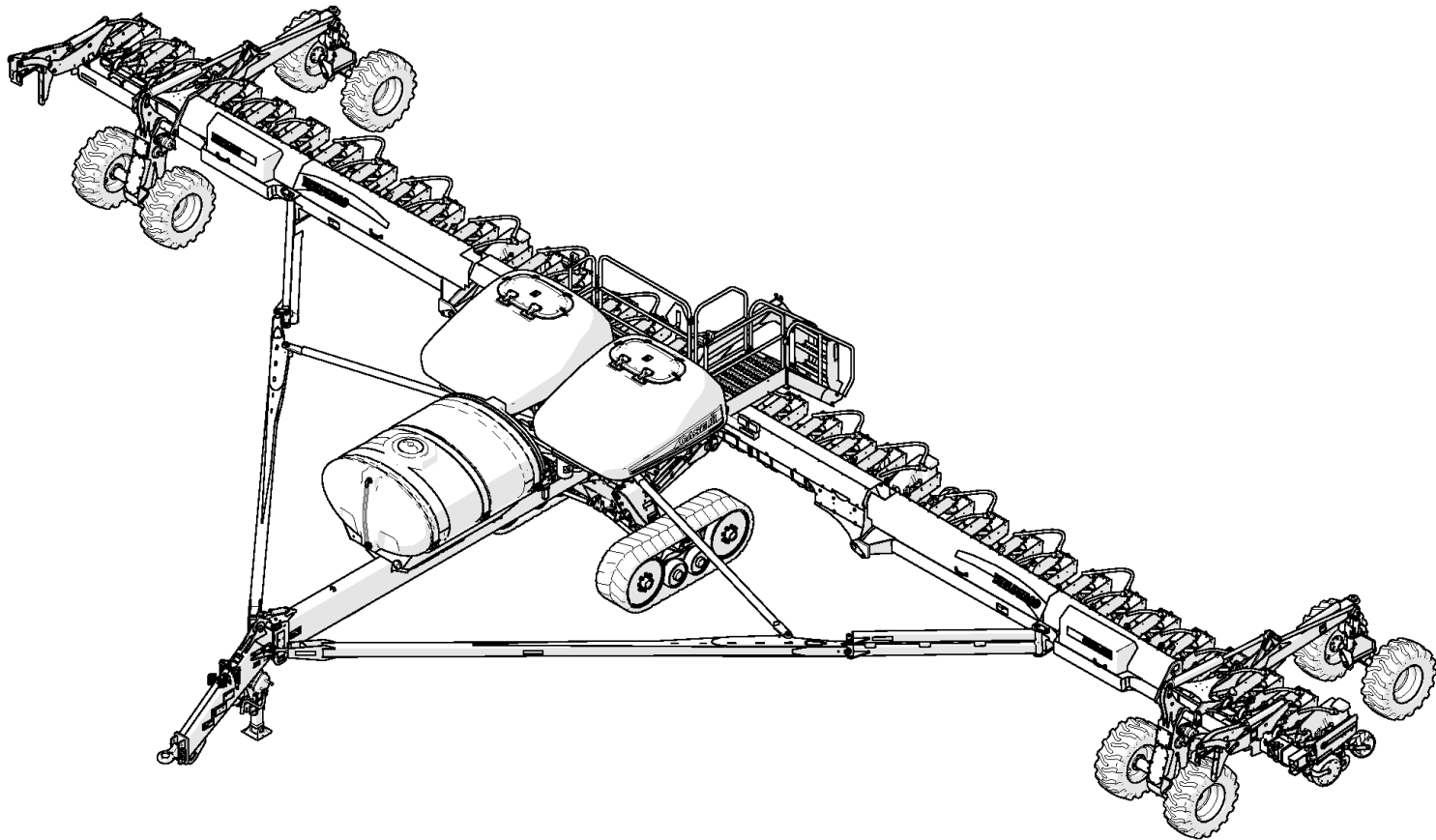


YIELDTRAC



Yieldtrac Planter Bar 36R-20

36 Row 20" Spacing (2000 Series)
Front Fold Trailing Planter

Year 2019 Model

Parts Catalog

Part number T0056284
1st edition English
July 2019



Disclaimer

This document is based on information available at the time of its publication. While efforts have been made to be accurate, the information contained herein does not purport to cover all details or variations, nor to provide for every possible contingency in connection with installation, operation, or maintenance. Features may be described herein which are not present in all systems. Norwood Sales Inc. assumes no obligation of notice to holders of this document with respect to changes subsequently made.

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Read and Understand

WARNING

Read and follow all instructions and safety precautions in this catalog and all other manuals for products associated with this planter as well as in all on-product warning decals. Failure to do so could result in death or serious injury, or property damage. Contact your Norwood Yieldtrac Planter dealer if any of your manuals are missing or illegible or you have questions.

Preface

This parts catalog is intended for use with the Norwood Sales Inc. Yieldtrac Planter Bar 36R-20.

Revision History

Issue	Date	Reasons for Change
T0056284	July 24th, 2019	Release

HOW TO USE THIS CATALOG AND LOCATE PARTS

This catalog is organized from a larger assembly, down to a smaller assembly. The exploded parts illustration will be shown on the left page, and the parts listing will be on the right page throughout this catalog.

Option 1:

From the contents page of the parts catalog, select the category which would most logically contain the part to be found. If you are viewing this document electronically, then click on the hyperlink of the page number you wish to navigate to, and the hyperlink will take you to that page.

Option 2:

If the part number is known but the applications and/or locations need to be determined, refer to the numerical index at the back of this catalog. The index shows the **Part Number**, **Description**, and **Page Number(s)** that the item or items are contained on. If you are viewing this document electronically, then click on the hyperlink of the page number you wish to navigate to in the table of contents, Index, or Bill of Materials of an exploded assembly, and the hyperlink will take you to that page.

Additionally, to determine that you are on the correct page in the parts catalog, use the following symbols:

36R-20

These symbols designate the different models of planters, and will appear at the top left corner of the parts catalog page. Choose the pages that correspond with your model of planter.

Exploded Parts Illustration.

Designates Parts Catalog Page For Yieldrac 36R22 Model Only.

Forward Direction Of Travel Symbol

Parts Listing

36R-22 Fert Catalog

TA01027 Assy. Manifold Fert Can Bar (Left Configuration)

ITEM	PART NUMBER	DESCRIPTION	QTY	TORQUE (ft-lbs)
1	70051555	Manifold Fertilizer Manifold	1	1
2	70051556	TEE 3/4" Threaded	2	2
3	70051557	Elbow 90° Short	2	2
4	70051558	3/4" MPT x 3/4" HR Elbow	2	2
5	70051559	Flange Bolt 3/4" MPT x 3/4" HR	1	1
6	70051560	Flange Bolt 3/4" MPT x 3/4" HR	1	1
7	70051561	Flange Bolt 3/4" MPT x 3/4" HR	1	1
8	70051562	Flange Bolt 3/4" MPT x 3/4" HR	1	1
9	70051563	Flange Bolt 3/4" MPT x 3/4" HR	1	1

Notes:
1. For Assembly: 100% Torque Specified. Use Torque Wrench 20 ft-lbs or Equivalent.
2. For Assembly: 100% Torque Specified. Use Torque Wrench 20 ft-lbs or Equivalent.
3. For Assembly: 100% Torque Specified. Use Torque Wrench 20 ft-lbs or Equivalent.

TA01027 Assy. Manifold Fert Can Bar (Right Configuration)

ITEM	PART NUMBER	DESCRIPTION	QTY	TORQUE (ft-lbs)
1	70051555	Manifold Fertilizer Manifold	1	1
2	70051556	TEE 3/4" Threaded	2	2
3	70051557	Elbow 90° Short	2	2
4	70051558	3/4" MPT x 3/4" HR Elbow	2	2
5	70051559	Flange Bolt 3/4" MPT x 3/4" HR	1	1
6	70051560	Flange Bolt 3/4" MPT x 3/4" HR	1	1
7	70051561	Flange Bolt 3/4" MPT x 3/4" HR	1	1
8	70051562	Flange Bolt 3/4" MPT x 3/4" HR	1	1
9	70051563	Flange Bolt 3/4" MPT x 3/4" HR	1	1

Notes:
1. For Assembly: 100% Torque Specified. Use Torque Wrench 20 ft-lbs or Equivalent.
2. For Assembly: 100% Torque Specified. Use Torque Wrench 20 ft-lbs or Equivalent.
3. For Assembly: 100% Torque Specified. Use Torque Wrench 20 ft-lbs or Equivalent.

Determining Orientation:

Front, Back, Left, and Right are determined by the operator sitting in the tractor seat facing the forward direction of travel.

The symbols shown below, will be on certain pages in this Parts Catalog, and where indicated, determine the front of the machine.



PARTS ORDERING INFORMATION

If you need service or parts for your machine:

For service assistance or parts, contact your nearest authorized Norwood Sales Inc. dealer. Your nearest authorized Norwood Sales Inc. dealer will need to know the model number, and your serial number of your machine to provide the most efficient service. See the following page for information on how to identify and record the model number, and serial number of your machine.

REPLACEMENT PARTS

Only genuine Norwood Sales Inc., and Case IH replacement parts should be used to service or repair the machine. Norwood Sales Inc. replacement parts are available from your Norwood Sales Inc. Dealer. To obtain prompt, efficient service, remember to give the Dealer the correct part number, description and quantity.

When ordering parts for your machine, please provide the following:

1. The PART NUMBER of the part.
3. The PART DESCRIPTION.
4. The QUANTITY needed.

Model Number / Serial Number Location

Always give your authorized Norwood dealer the model number and serial number of your Yieldtrac Planter 36R20 product when ordering parts, requesting service, or any other information to provide the most efficient service.

The model number / serial number is identified in (Fig. # 1-1) below.

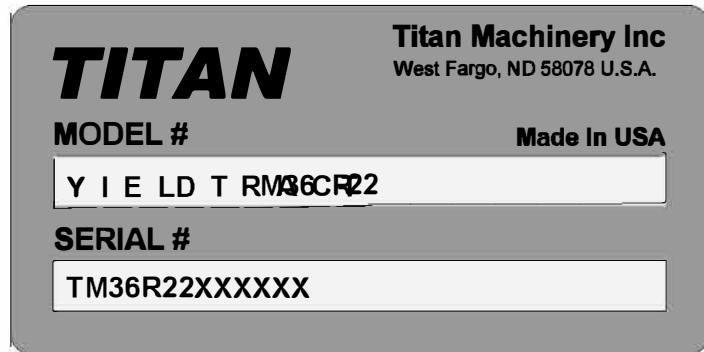


Fig. # 1-1 Model Number / Serial Number Decal

The model number / serial number is located where indicated below. (See Fig. # 1-2)

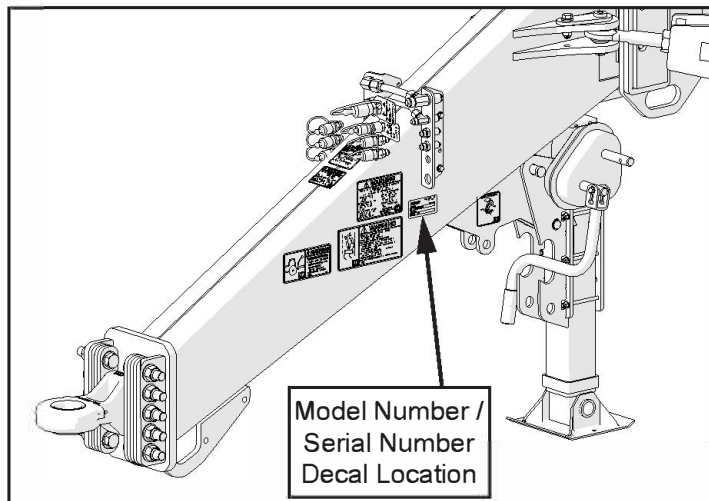


Fig. # 1-2 Model / Serial Number Decal Location

Case IH Planter Content Model Number / Serial Number Location

Always give your authorized Yieldtrac planter dealer the model number and serial number of your Case IH planter content (Wholegood) when ordering parts, requesting service, or any other information to provide the most efficient service.

The model number / serial number is identified in (Fig. # 1-3) below.

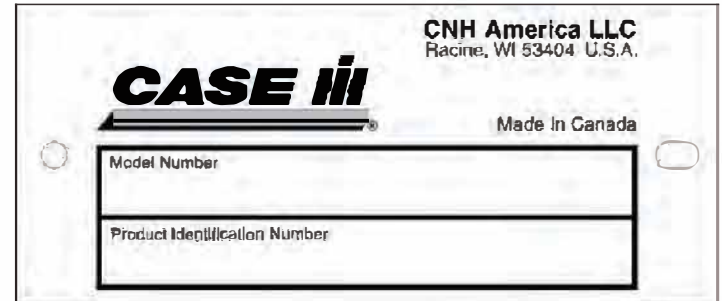


Fig. # 1-1

Fig. # 1-1 Model Number/Serial Number Decal

The model number / serial number is located where indicated below. (See Fig. # 1-4)

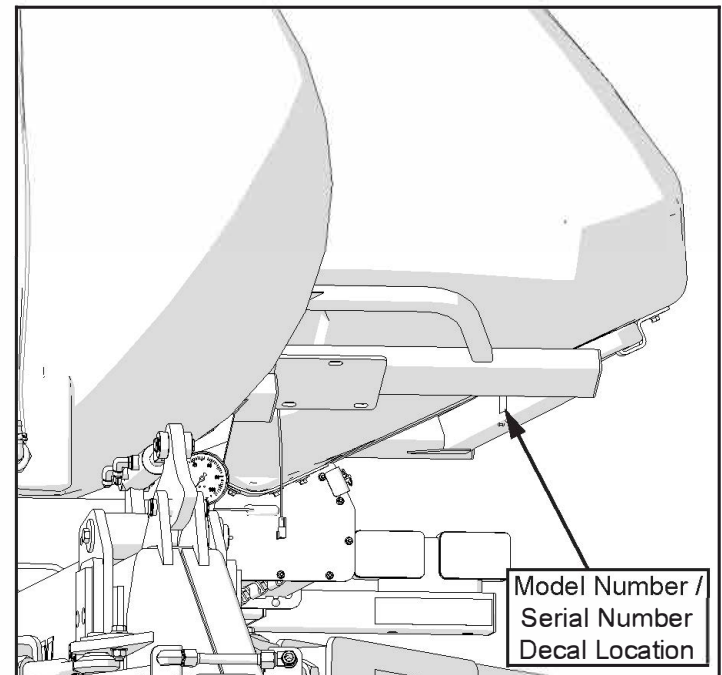
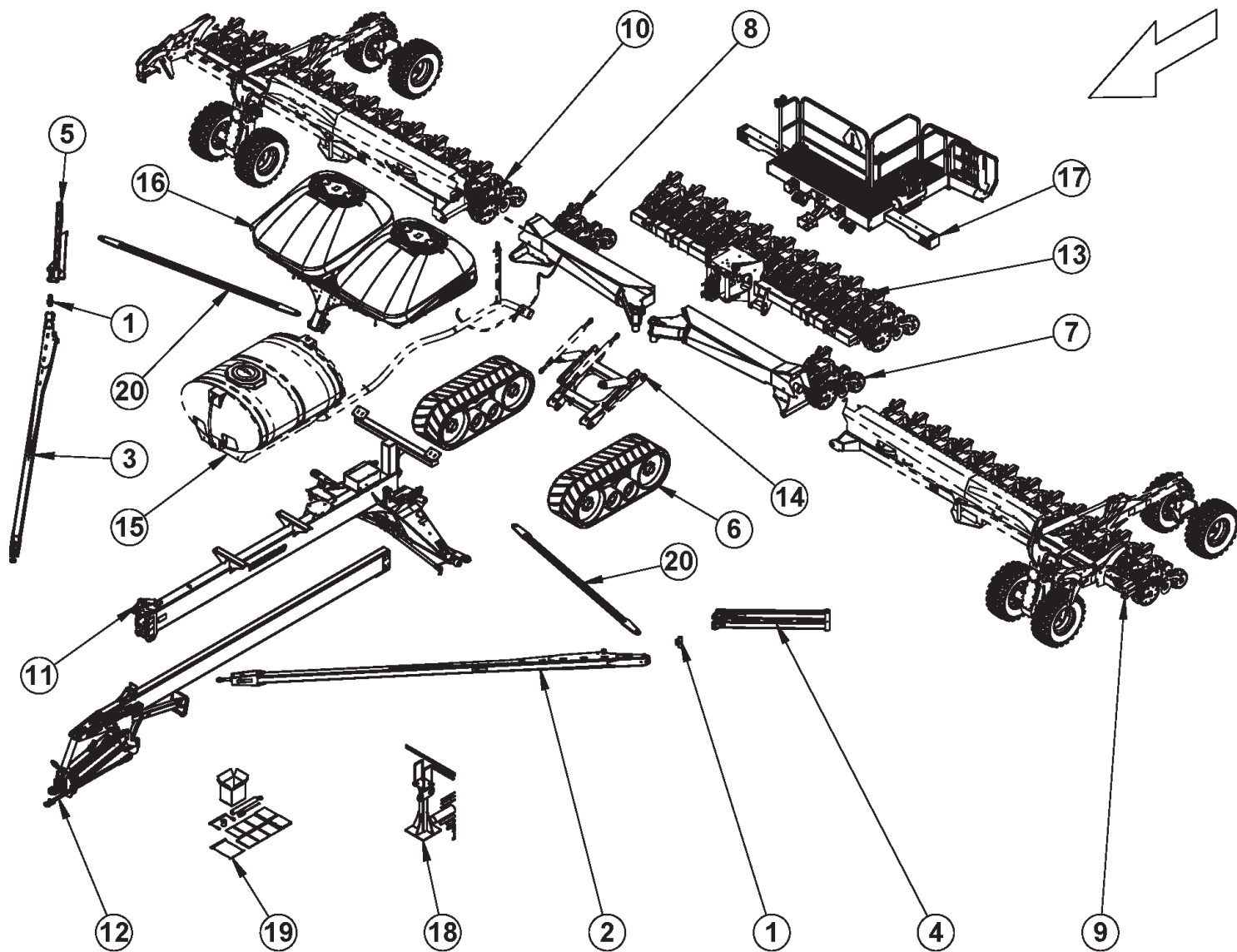


Fig. # 1-2 Model / Serial Number Decal Location On Bulk Fill Assembly

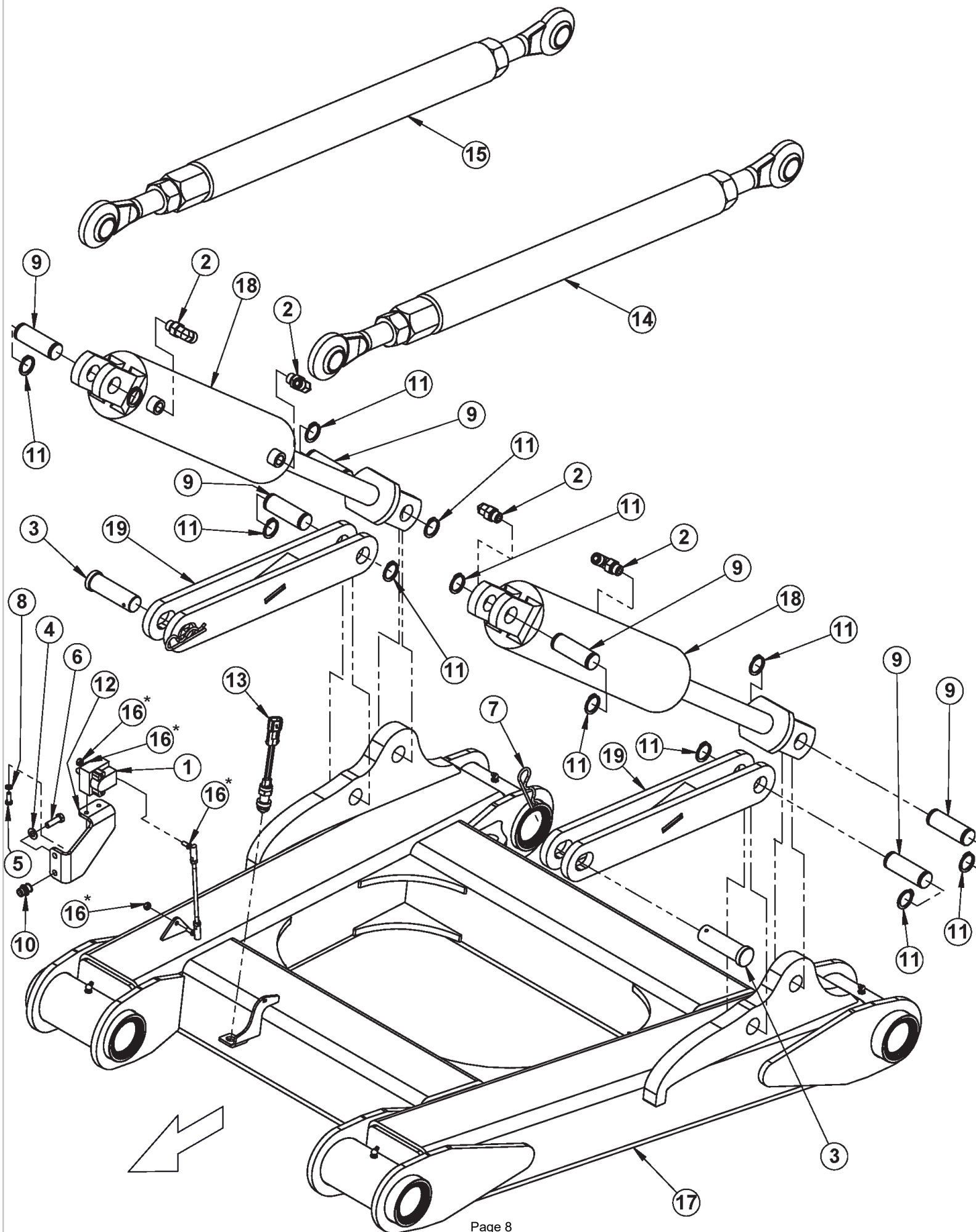


TA02007 Yieldtrac 36R20 2000 Series

ITEM	PART NUMBER	DESCRIPTION	QTY	TORQUE (ft-lbs)
1	T0052223	Tow Bar Knuckle Machined	2	
2	TA01356	Assy, Tow Bar	1	
3	TA01356	Assy, Tow Bar	1	
4	TA01360	Assy, Tow Bar Gate - LH	1	
5	TA01361	Assy, Tow Bar Gate - RH	1	
6	TA01589	Option, Track Width	1	
7	TA02012	Assy, 36R20 LH Stub Arm	1	
8	TA02013	Assy, 36R20 RH Stub Arm	1	
9	TA02015	Assy, 36R20 LH Wing	1	
10	TA02016	Assy, 36R20 RH Wing	1	
11	TA01879	Option, 60/66' Track Spacing	1	
12	TA01883	Option, 60/66' Front Hitch	1	
13	TA02009	Assy, 36R20 Center Bar	1	
14	TA01925	Assy, Main Lift	1	
15	TA01935	Option, 24R30 750 Gal Fertilizer	1	
16	TA01945	Assy, Bulk Fill	1	
17	TA01946	Assy, Ladder Platform	1	
18	TA02028	Assy, Bulk Material 36R20 FF 2000	1	
19	TA01949	Operator's Package FF 2000 (All Models)	1	
20	TW001462	Wldmt, 60/66' Control Link	2	

Note:

1. **[T=XXX]** = Torque Expressed in ft-lbs (Use standard torque values from drawing T0000000 unless otherwise specified.
2. * Items marked with an asterisk are items that are included in that particular part or assembly.

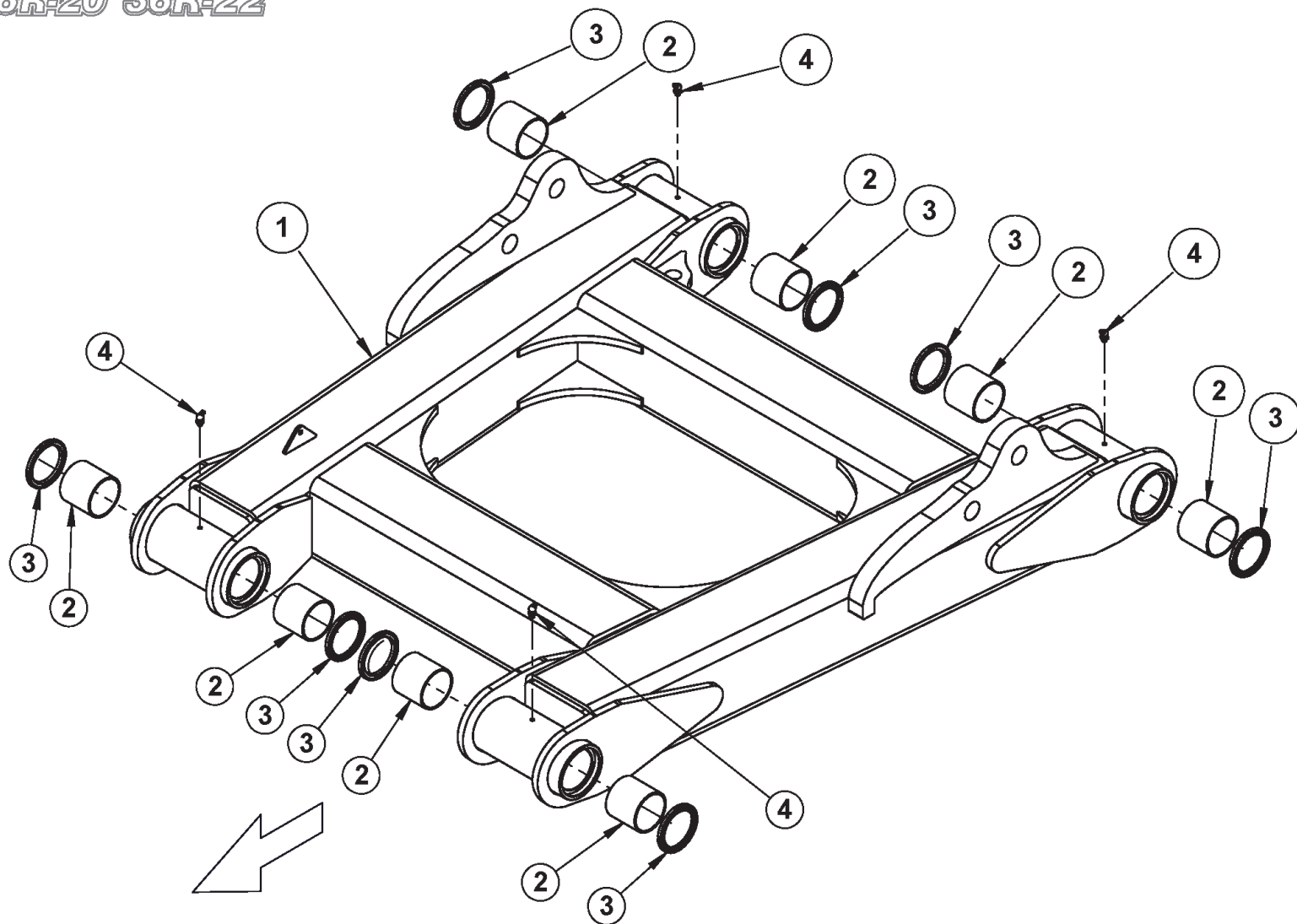


TA01925 Assy, Main Lift

ITEM	PART NUMBER	DESCRIPTION	QTY.	TORQUE (ft-lbs)
1	404202A1	Sensor Rotary Position	1	
2	AD-08MFS-08MB-90	AD-08MFS-08MB-90	4	
3	CLPIN-1.250X4.00Y	Clevis Pin, Ø1.25" X 4" YZ	2	
4	FW-SAE-0.375Y	Washer, Flat SAE 3/8" YZ	2	
5	HB-0.250-20X0.75Y8	Bolt, Hex Hd 1/4-20x3/4-YZ8	2	
6	HB-0.375-16X1.25Y8	Bolt, Hex Hd 3/8-16x1-1/4 YZ8	2	
7	HPINCLIP-1.250Y	Hair Pin Clip-Ø1.2500" YZ	2	
8	LW-0.250Y	Washer, Split Lock 1/4" YZ	2	
9	PIN-1.250X3.25Y	Pin-1.2500x3.250-YZ	6	
10	RN-0.375-16-.31-.44-Y	Rivnut, 3/8-16 UNC .31-.44 GR	2	
11	SRING-EXT-HD-1.25Y	SRING-EXT-HD-1.25Y	12	
12	T0053846	Bracket, Height Sensor	1	
13	T0055680	Plunger Switch	1	
14	TA00613	Upper Link Assy	1	
15	TA00613	Upper Link Assy	1	
16	TA00630	Assy, Position Sensor Link	1	
17	TA01214	Assy, Main Lift	1	
18	TA01234	Cylinder, Hyd 4.5X14.00 Reph	2	
19	TW001171	Wldmt, Cylinder Stop Link	2	

Note:

1. * Items marked with an asterisk are items that are included in that particular part or assembly.

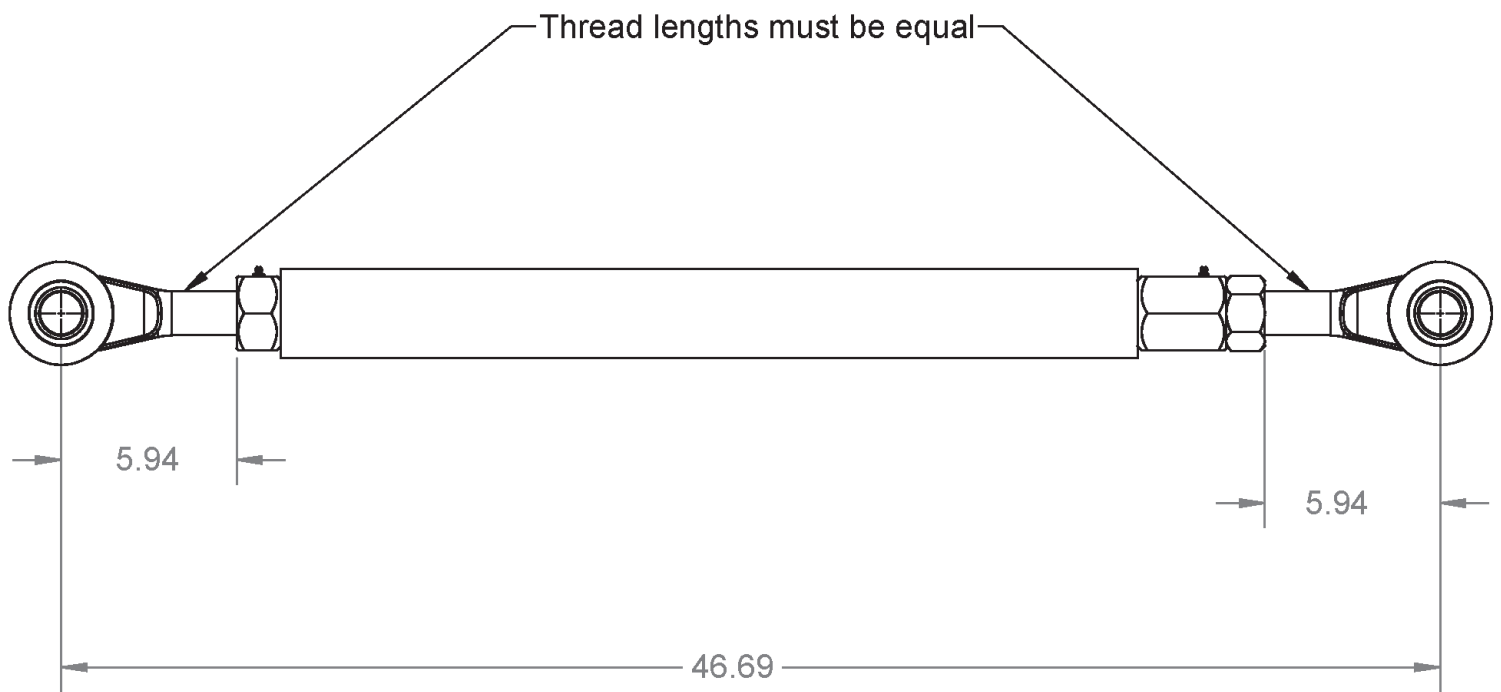
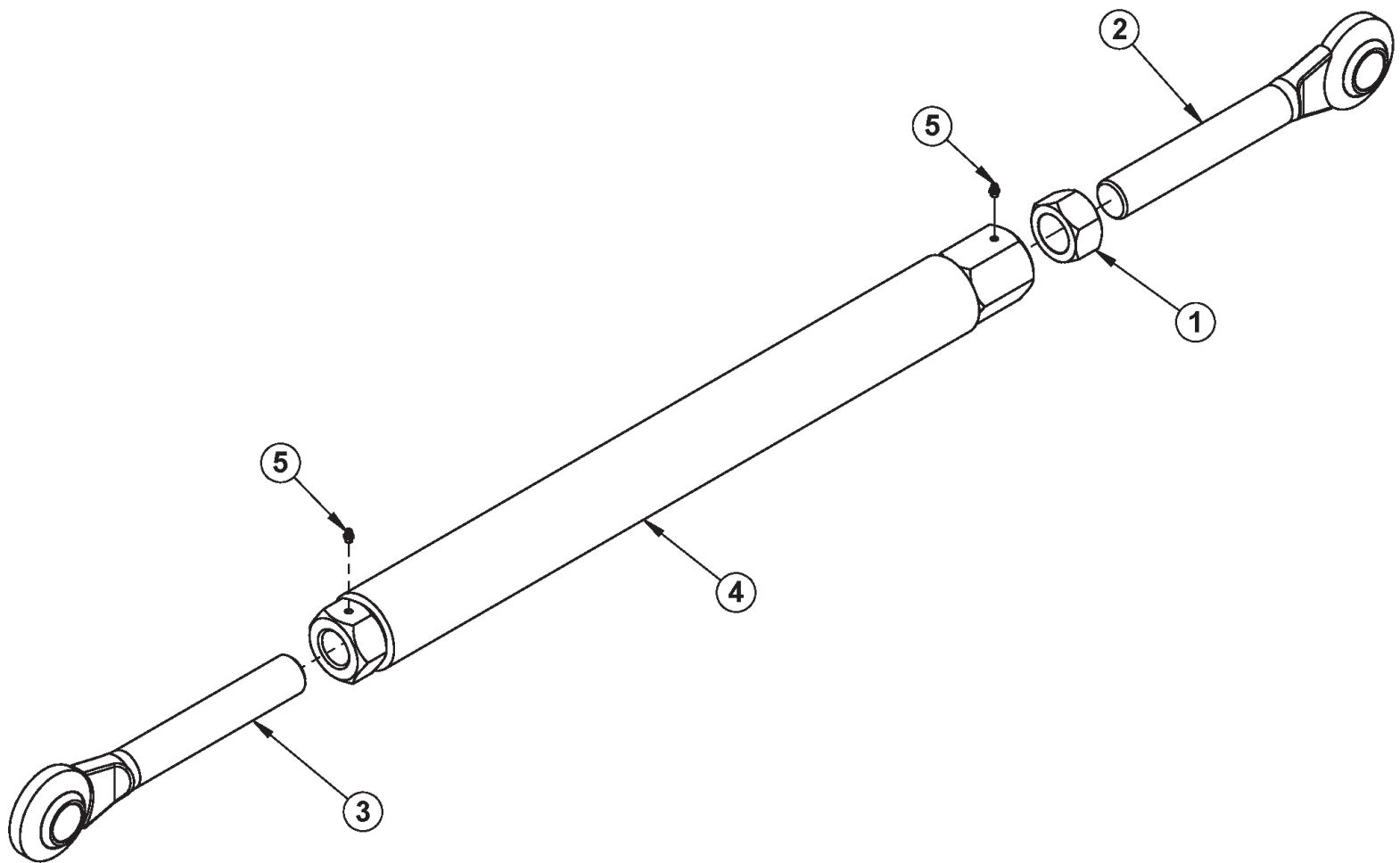


TA01214 Assy, Main Lift

ITEM	PART NUMBER	DESCRIPTION	QTY.	TORQUE (ft-lbs)
1	TW001130	Wldmt, Main Lift	1	
2	PB-2.500X2.75X2.50	Bush, Polygon 2.500x2.75x2.50	8	
3	T0051584	2.50 Grease Seal	8	
4	ZERK-0.250-28X45	Zerk-1/4-28x45Deg	4	

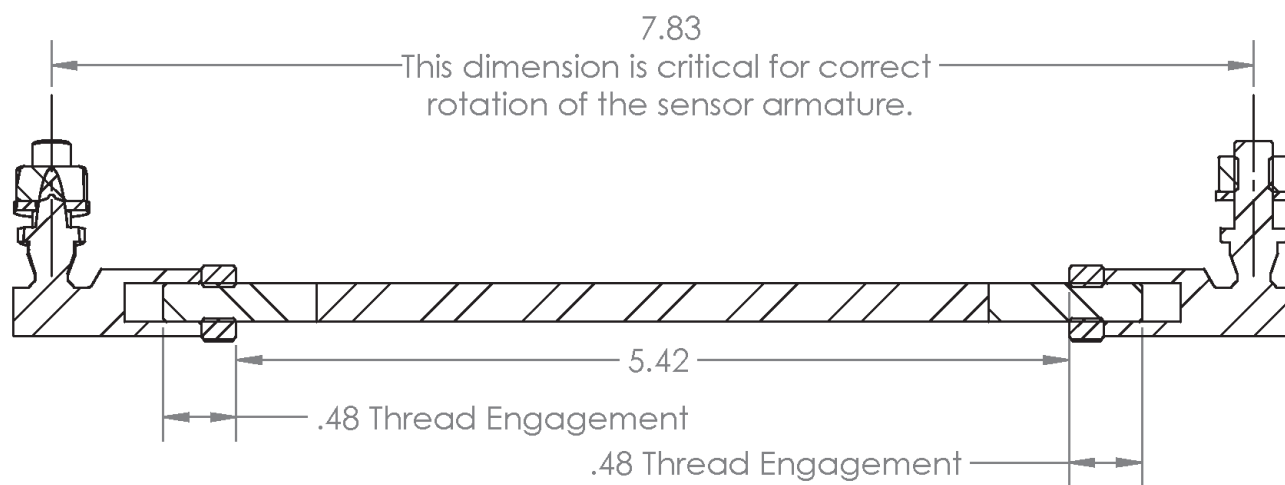
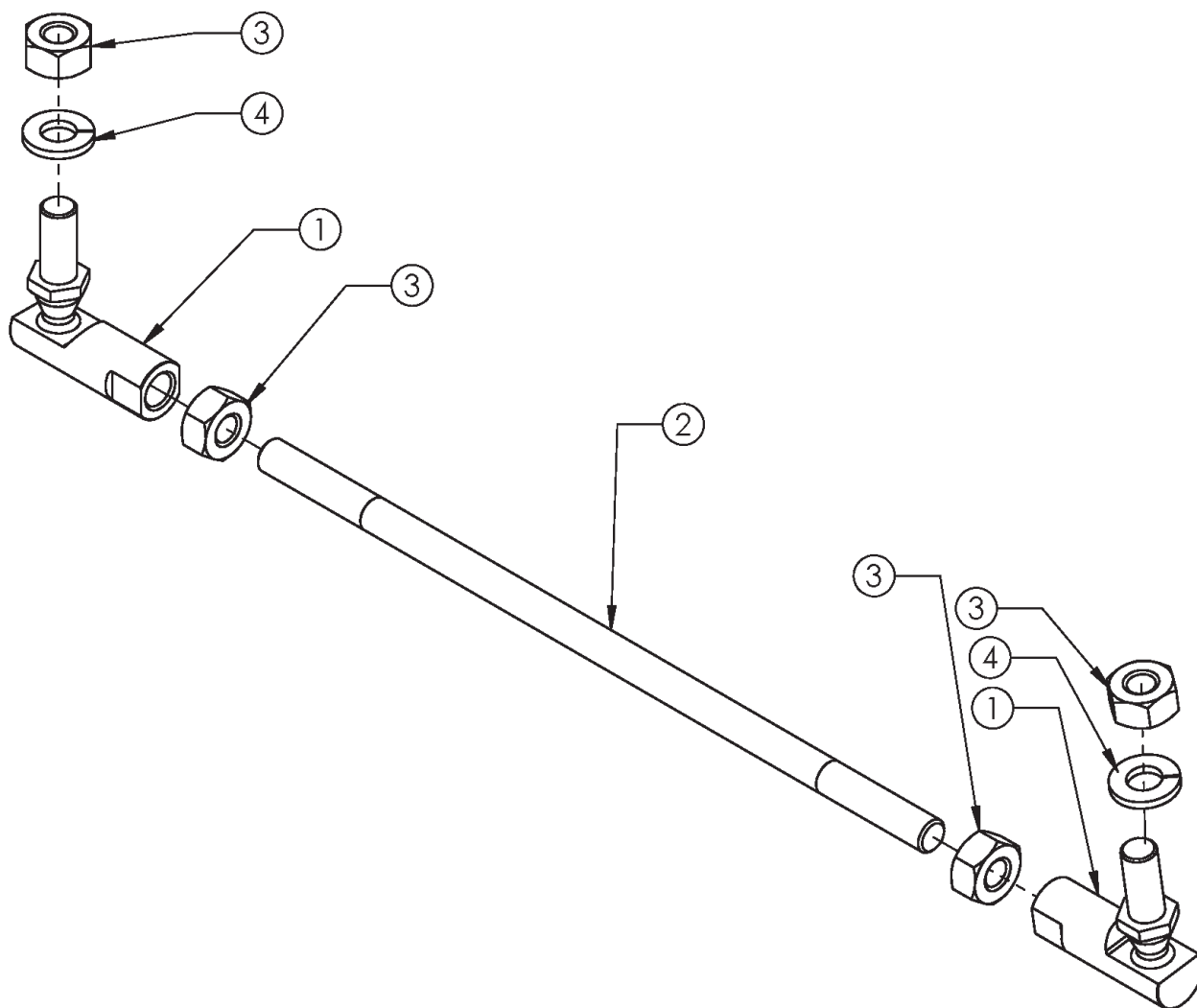
Note:

1. T=XXX = Torque, and is expressed in ft-lbs.



TA00613 Upper Link Assy

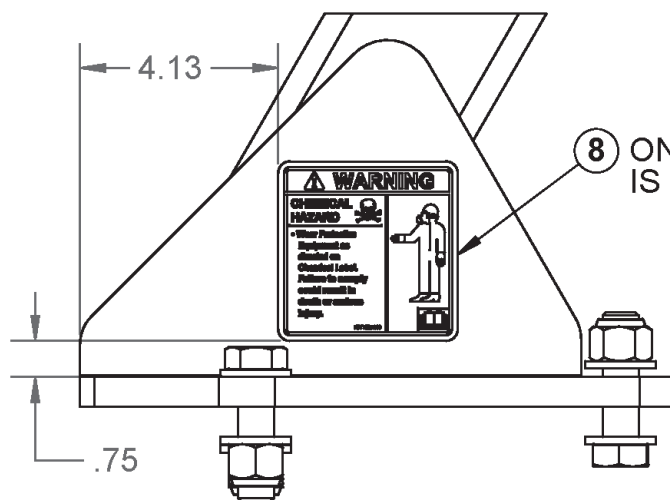
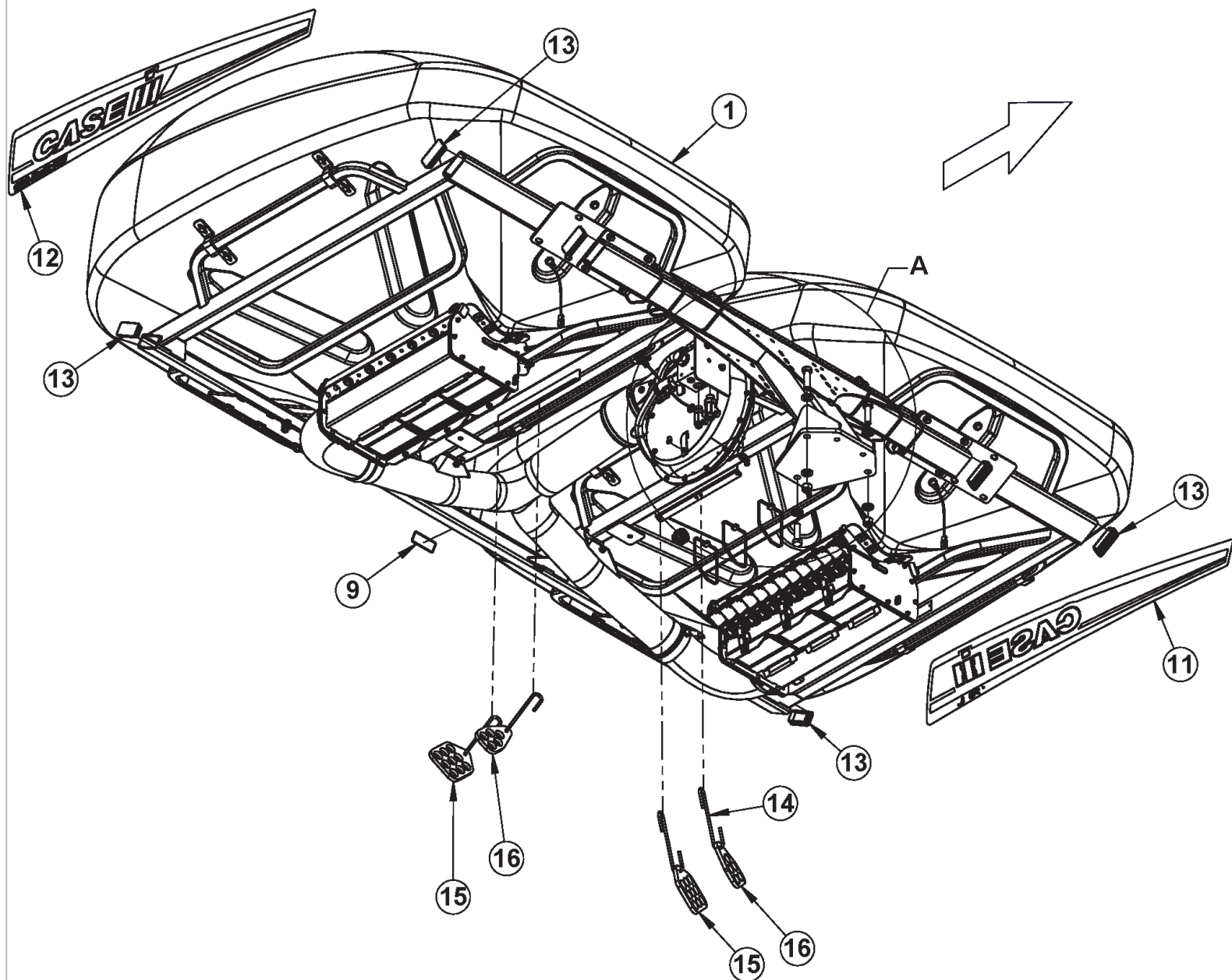
ITEM	PART NUMBER	DESCRIPTION	QTY	TORQUE (ft-lbs)
1	HNUT-1.500-6Y8	Nut, Hex 1-1/2-6 YZ8	1	
2	T0051213	RH End Link	1	
3	T0051214	LH End Link	1	
4	TW000618	Upper Link Weldment	1	
5	ZERK-0.250-28	Zerk, 1/4-28	2	



SECTION A-A
SCALE 1 : 1.25

TA00630 Assy, Position Sensor Link

ITEM	PART NUMBER	DESCRIPTION	QTY	TORQUE (ft-lbs)
1	BJ-0.250-28X90Y	BJoint-0.2500-28x90-YZ	2	
2	BJROD-0.250-28X6.38Y	BJoint-Rod 1/4-28x6-3/8-YZ	1	
3	HNUT-0.250-28Y8	Nut, Hex 1/4-28 YZ8	4	
4	LW-0.250Y	Washer, Split Lock 1/4" YZ	2	



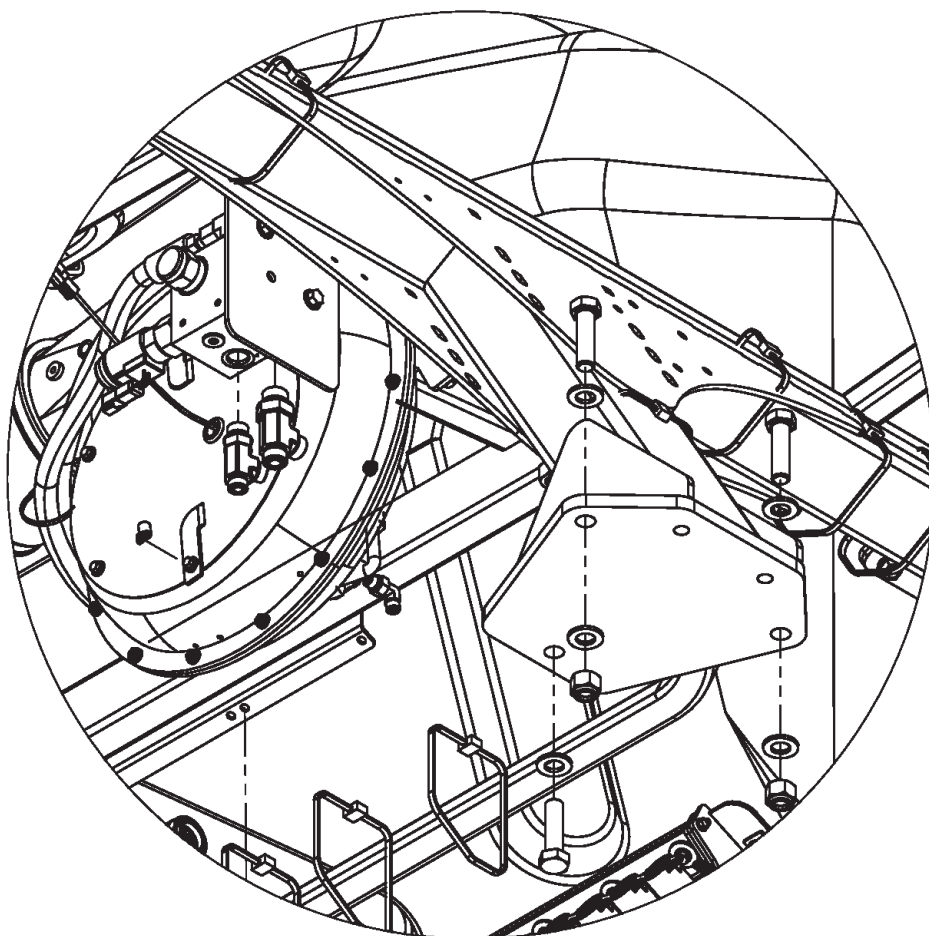
8 ONLY INSTALL IF PLANTER IS GETTING FERTILIZER.

TA01945 Assy, Bulk Fill

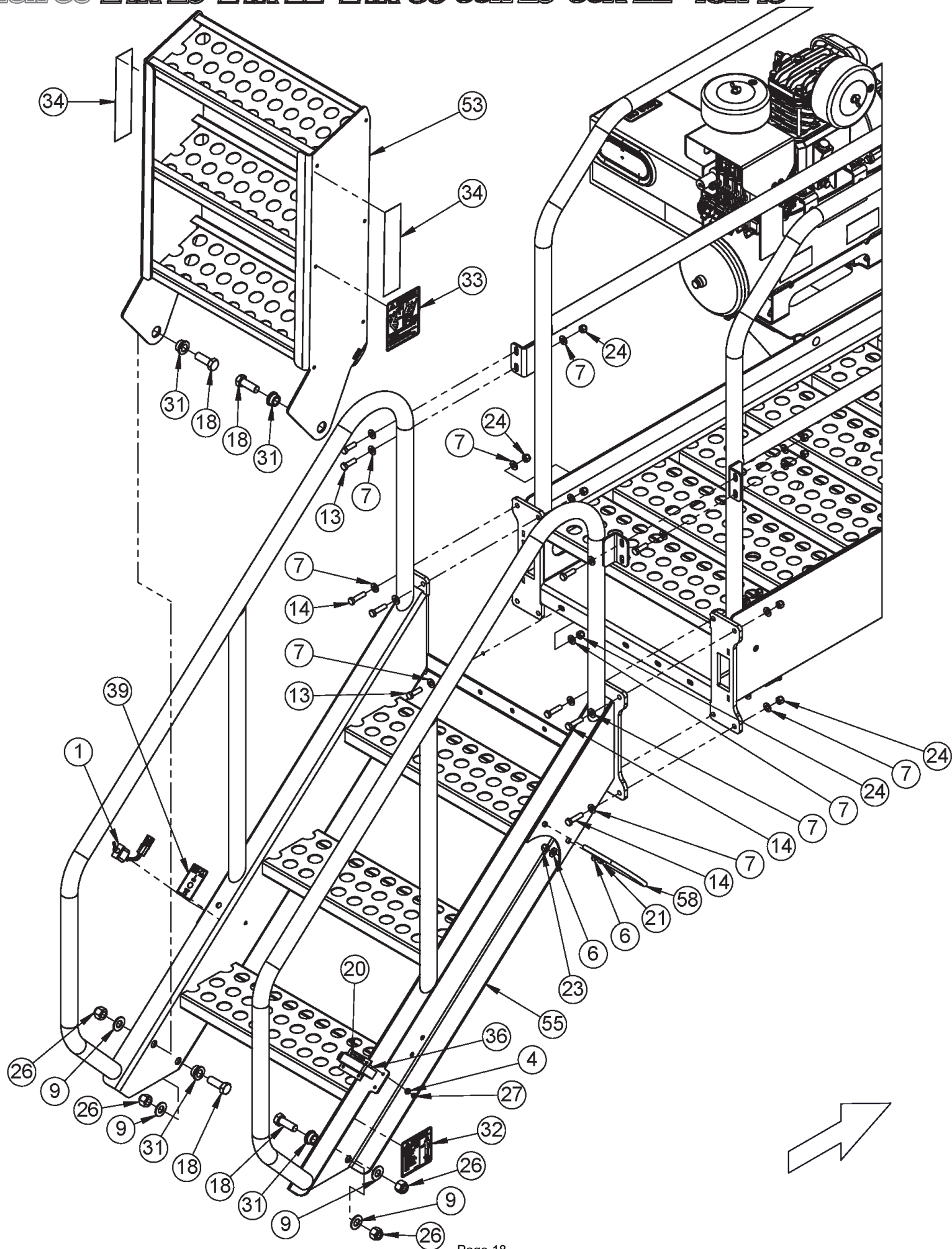
ITEM	PART NUMBER	DESCRIPTION	QTY	TORQUE (ft-lbs)
1	48103239	CNH Bulk Fill	1	
2	AD-04MFS-06MB-90	AD-04MFS-06MB-90	1	
3	AD-08MFS-10MB-08MFS	AD-08MFS-10MB-08MFS	1	
4	AD-10MFS-12MB-10MFS	AD-10MFS-12MB-10MFS	1	
5	FW-SAE-0.750Y	Washer, Flat-SAE 3/4 YZ	6	
6	HB-0.750-10X2.75Y8	Bolt, Hex Hd 3/4-10x2-3/4-YZ8	3	
7	NLNUT-0.750-10Y8	Nut, Nylock 3/4-10-YZ8	3	
8	T0051589	Decal, Warning-Chemical Hazard	1	
9	T0051653	Decal, No Step	1	
10	T0051717	P-Clamp, .3125 Ø.281 Hole	1	
11	T0052294	Decal, Bulk Fill LH	1	
12	T0052295	Decal, Bulk Fill RH	1	
13	T0052517	Plug, Rect Tube 2x4x6-8Ga	6	
14	T0052569	J-Hanger, Double	4	
15	T0052572	Seed Hose Hanger, Middle	2	
16	T0052573	Seed Hose Hanger, Middle Fr	2	

Note:

1. **T=XXX** = Torque Expressed in ft-lbs (Use standard torque values from drawing T0000000 unless otherwise specified.
2. * Items marked with an asterisk are items that are included in that particular part or assembly.

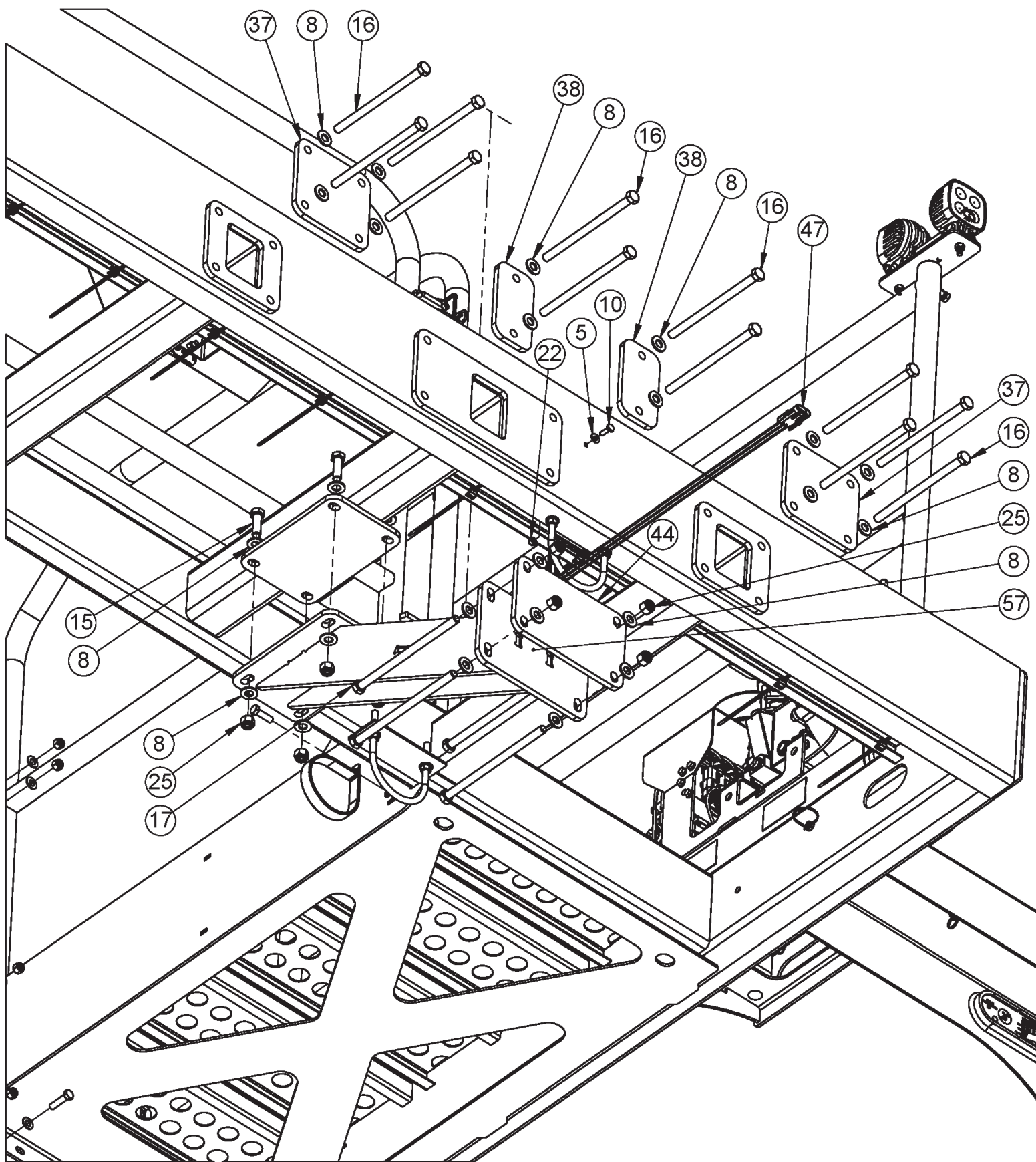


DETAIL A
SCALE 1 : 8

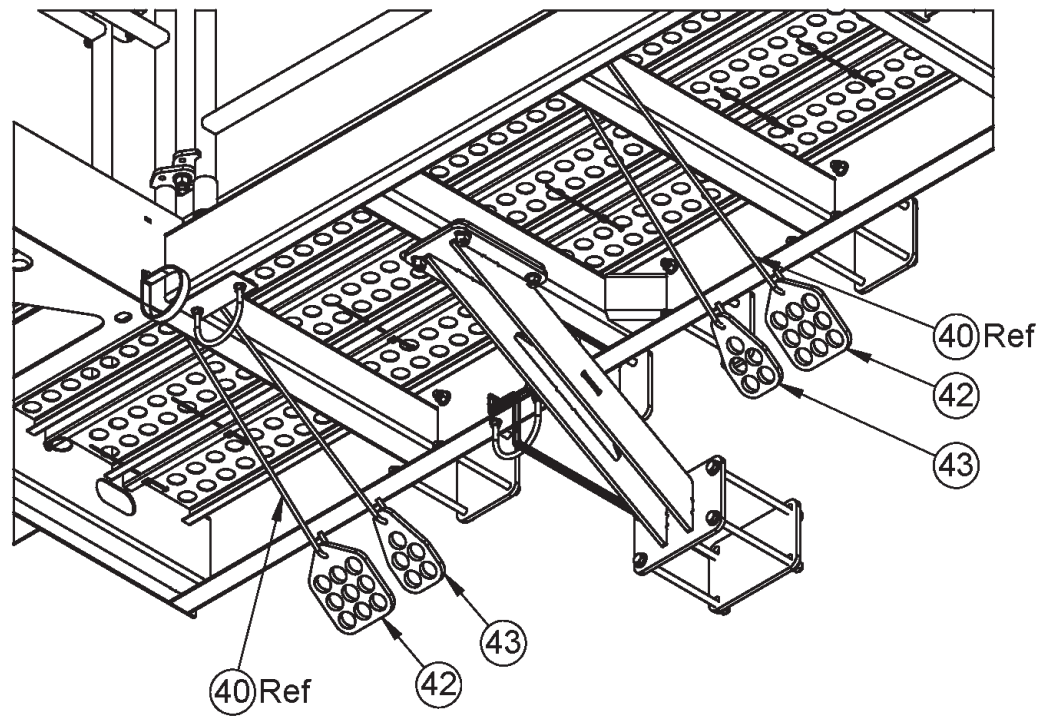


TA01946 Assy, Ladder Platform

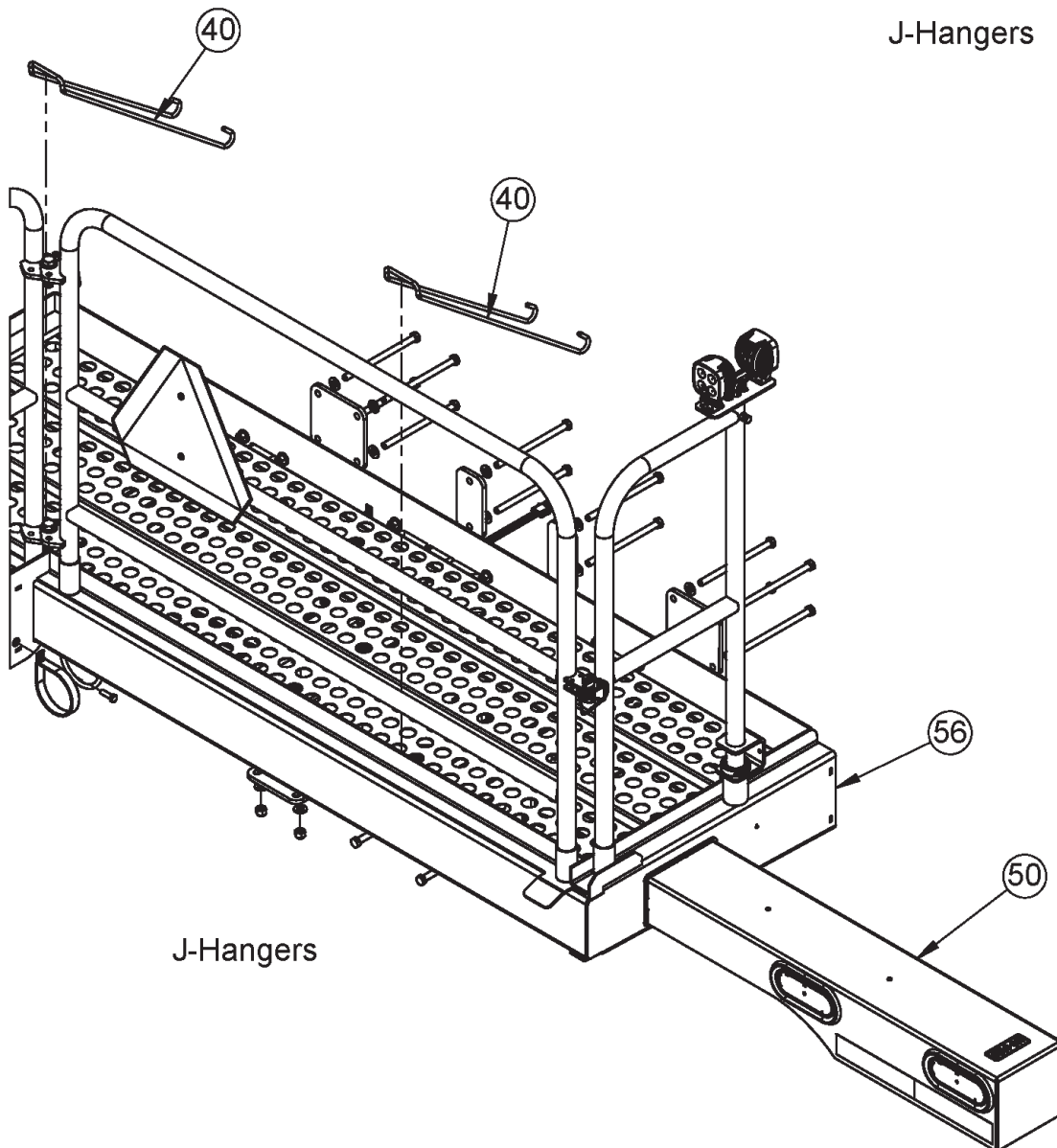
ITEM	PART NUMBER	DESCRIPTION	QTY	TORQUE (ft-lbs)
1	391062A1	Switch, On/Off	1	
2	CBLTIEMT-.256-.276-HL	Assy,CableTie Mnt .031-.276 PT	4	
3	EDGCLP-CBLTIE-.04-.18	Edge Clip, W/CblTie PT.04-.18	10	
4	FW-SAE-#10C	Washer, Flat SAE #10 CZ	4	
5	FW-SAE-0.250Y	Washer, SAE Flat 1/4-YZ	5	
6	FW-SAE-0.375SS	Washer, Flat SAE 3/8" SS	12	
7	FW-SAE-0.375Y	Washer, Flat SAE 3/8" YZ	34	
8	FW-SAE-0.500Y	Washer, Flat SAE - 1/2-YZ	40	
9	FW-SAE-0.625Y	Washer, Flat-SAE-5/8	8	
10	HB-0.250-20X0.75Y8	Bolt, Hex Hd 1/4-20x3/4-YZ8	1	
11	HB-0.250-20X1.00Y8	Bolt, Hex Hd 1/4-20x1-YZ8	2	
12	HB-0.375-16X0.75Y8	HBolt-0.3750-16x0.750-YZ8	2	
13	HB-0.375-16X1.25Y8	Bolt, Hex Hd 3/8-16x1-1/4 YZ8	10	
14	HB-0.375-16X1.50Y8	Bolt, Hex Hd 3/8-16x1-1/2-YZ8	8	
15	HB-0.500-13X1.63Y8	Bolt, Hex Hd 1/2-13x1-5/8 YZ8	4	
16	HB-0.500-13X8.00Y8	Bolt, Hex Hd 1/2-13x8 YZ8	12	
17	HB-0.500-13X9.00Y8	Bolt, Hex Hd 1/2-13x9 YZ8	4	
18	HB-0.625-11X1.75Y8	Bolt, Hex Head-5/8-11x1.75-YZ8	4	
19	HB-0.625-11X2.25Y8	Bolt, Hex Head-5/8-11x2.25-YZ8	2	
20	HB-10-24X0.75C2	Bolt,HexHd 10-24x3/4 Cl Zc Gr2	4	
21	HNUT-0.375-16SS	Nut, Hex 3/8-16 SS	6	
22	NLNUT-0.250-20Y8	Nut, Nylock 1/4-20-YZ8	3	
23	NLNUT-0.375-16SS	Nut, Nylock -3/8"-16-SS	6	
24	NLNUT-0.375-16Y8	Nut, Nylock 3/8-16 YZ8	17	
25	NLNUT-0.500-13Y8	Nut, Nylock 1/2-13 YZ8	20	
26	NLNUT-0.625-11Y8	Nut, Nylock-5/8-11-YZ8	6	
27	NLNUT-10-24C	Nut, Nylock 10-24 CZ2	4	
28	PCLMP-4.000x2.56	Clmp, Cus Pipe Ø4x2-9/16	1	
29	RN-0.375-16-.15-.31Y	Rivnut, 3/8-16 .150-.312 YZ	5	
30	SFTCOLLAR-1.500BO	Collar, Shaft 1-1/2 Blck Oxide	1	
31	T0050854	Anti Rotation Insert	6	
32	T0051589	Decal, Warning-Chemical Hazard	1	
33	T0051596	Decal, Warning - Ladder Lowering	1	
34	T0051729	Decal, Reflector,Yellow-2x9	2	
35	T0052167	Cap, Tube Ø1.50 Vinyl	3	
36	T0052227	Latch,Flush Fngr Pull Slim 25#	1	
37	T0052241	Plate, Ladder Attachment	2	
38	T0052242	Plate, Ladder Attach	2	
39	T0052291	Decal, Ladder Platform Lights	1	
40	T0052570	J Hanger, Double Straight	2	
41	T0052571	Seed Hose Hanger, Stub Arm	2	
42	T0052572	Seed Hose Hanger, Middle	2	
43	T0052573	Seed Hose Hanger, Middle Fr	2	
44	T0055786	Plate, Ladder Wldmt Bolt	1	
45	TA00678	Assy, SMV Sign	1	
46	TA00791	Assy, Lynch Pin & Lanyard	2	
47	TA00996	Harness, Bulk Fill Lights	1	
48	TA01247	Assy, Light Arm Extension	2	
49	TA01943	Assy, LH LED Taillight	1	
50	TA01944	Assy, RH LED Taillight	1	
51	TA01947	Assy, Air Compressor	1	
52	TW000753	Wldmnt, Railing Rear Hinged	1	
53	TW000762	Wldmt, Folding Step Ladder	1	
54	TW000877	Wldmnt, Railing Side-RH Rotating	1	
55	TW000917	Wldmt. Platform Stairs	1	
56	TW001369	Wldmt, Ladder Platform	1	
57	TW001413	Wldmt, Platform Strut	1	
58	UB-0.38X4.0X5.5-RC5	Ubolt, 3/8x4x5-1/2 RC5	3	



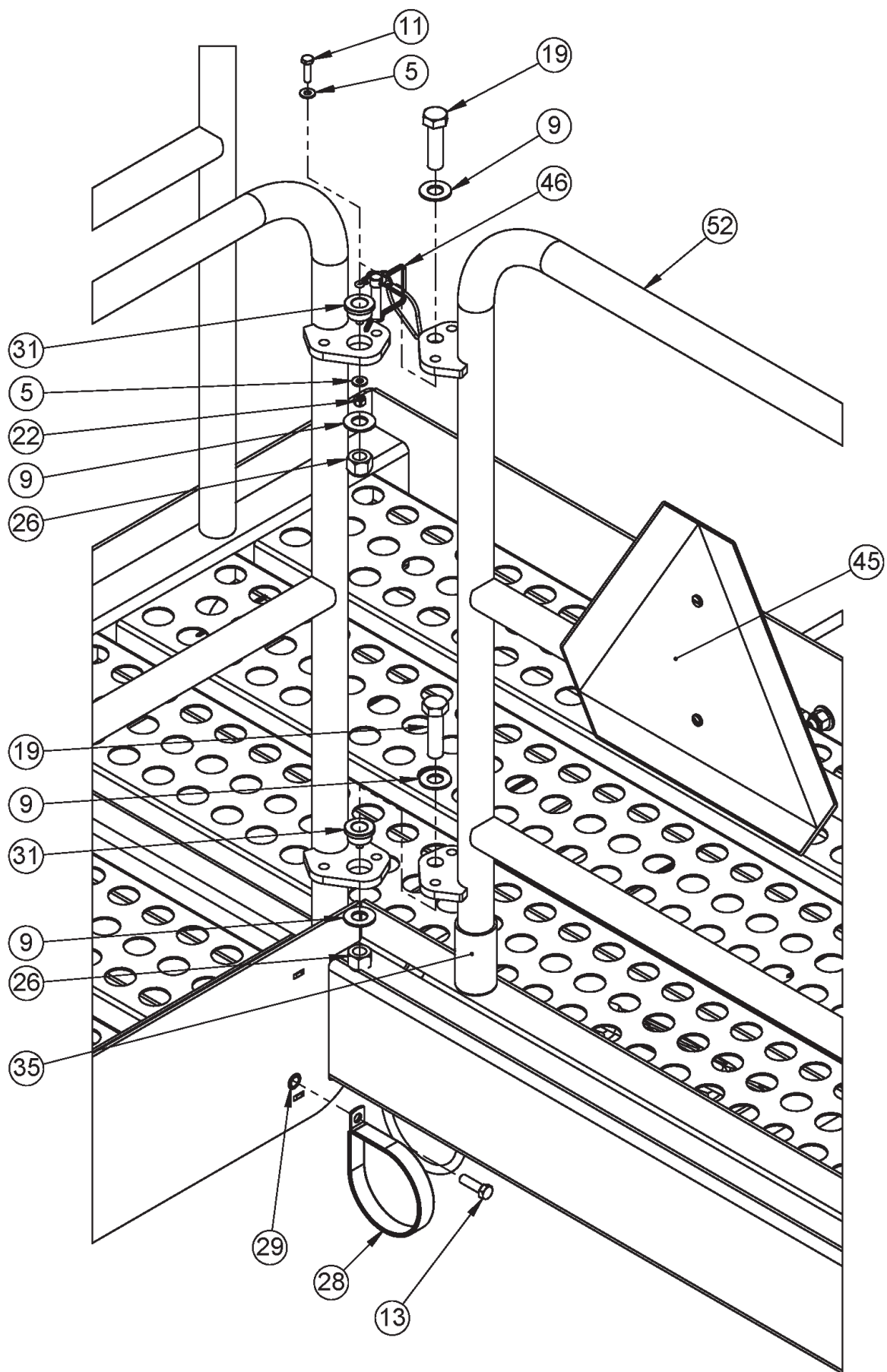
Platform Mounting

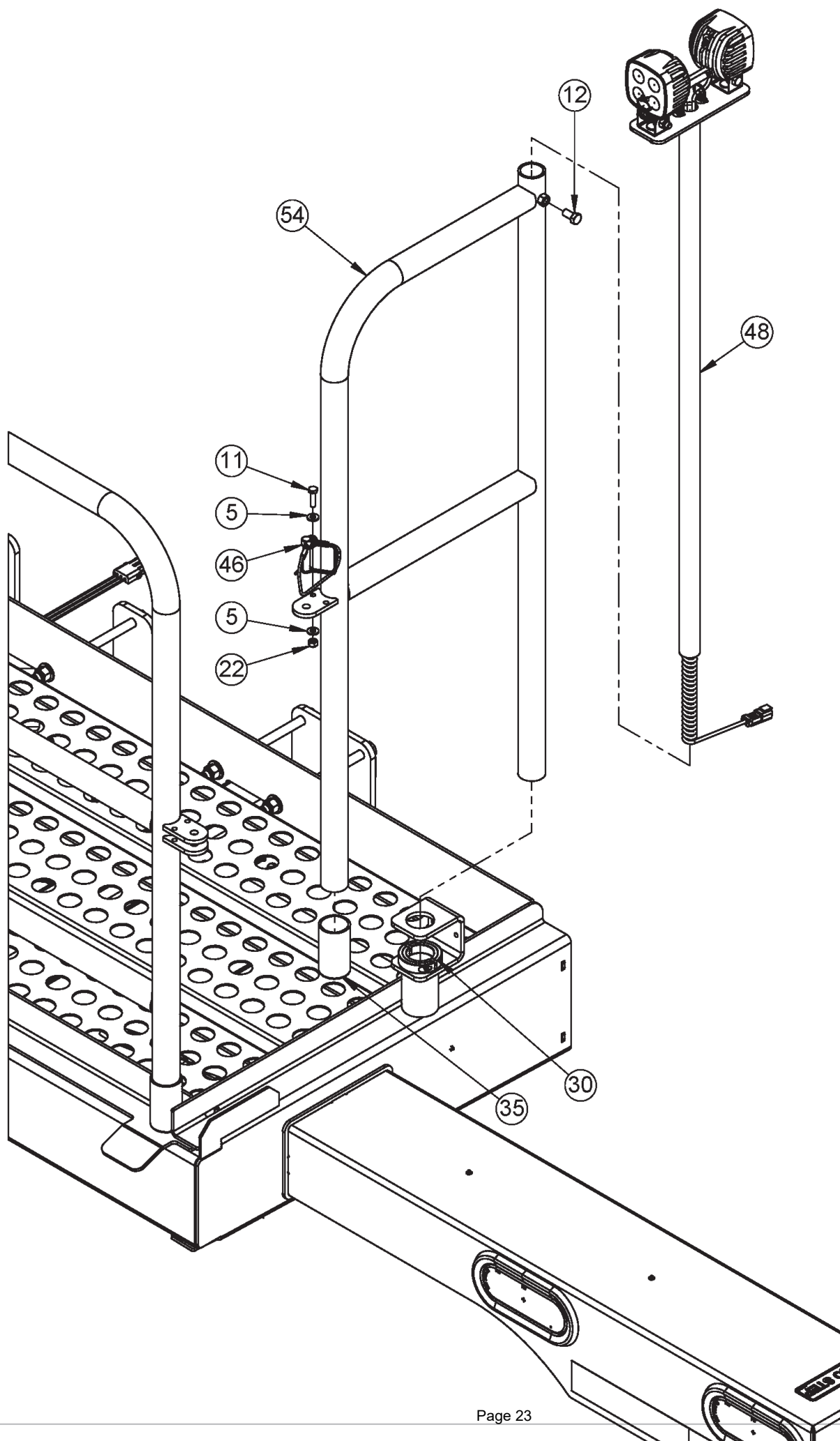


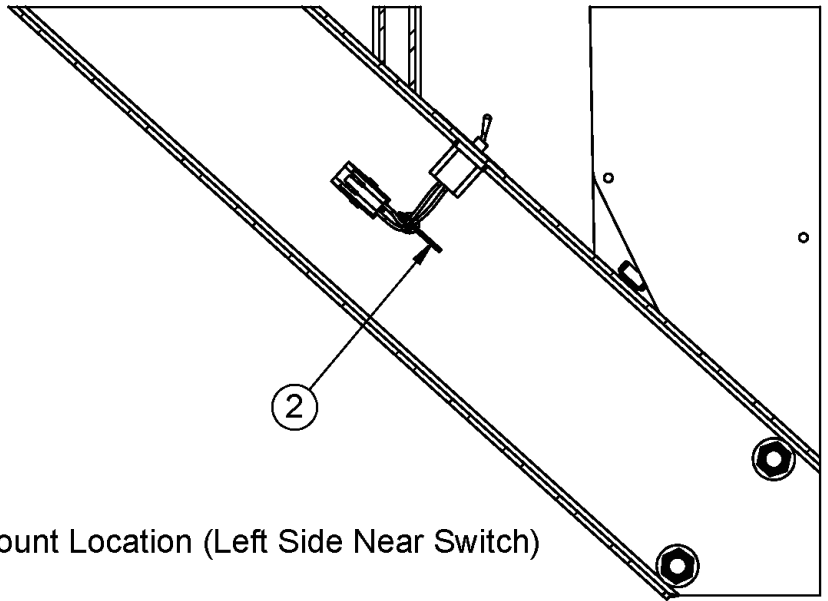
J-Hangers



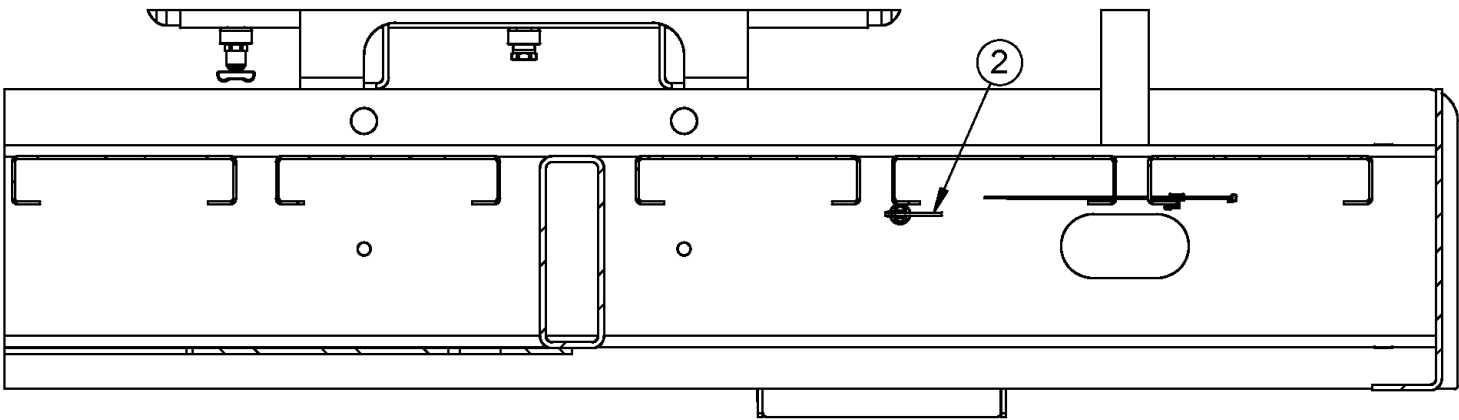
J-Hangers



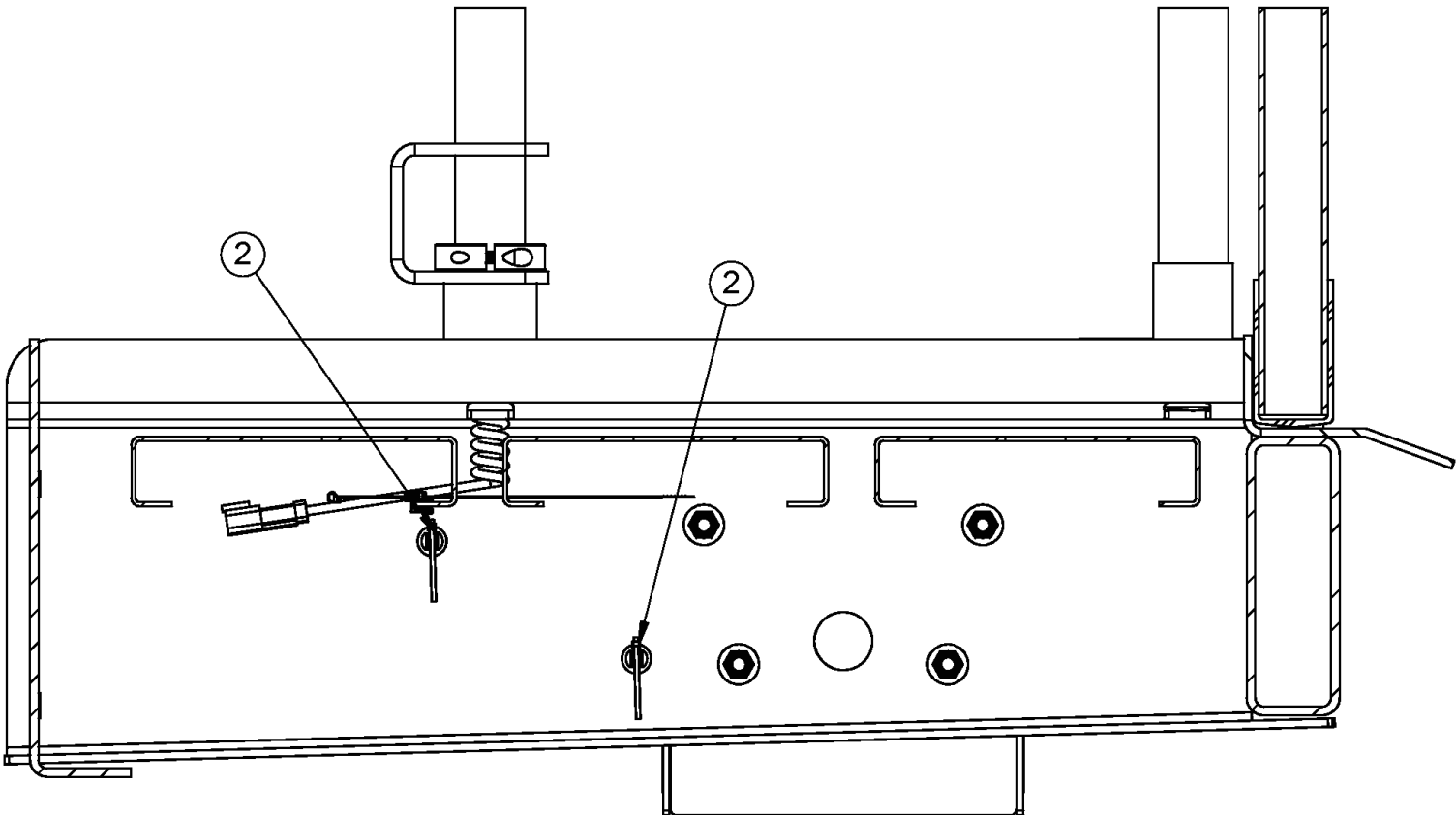




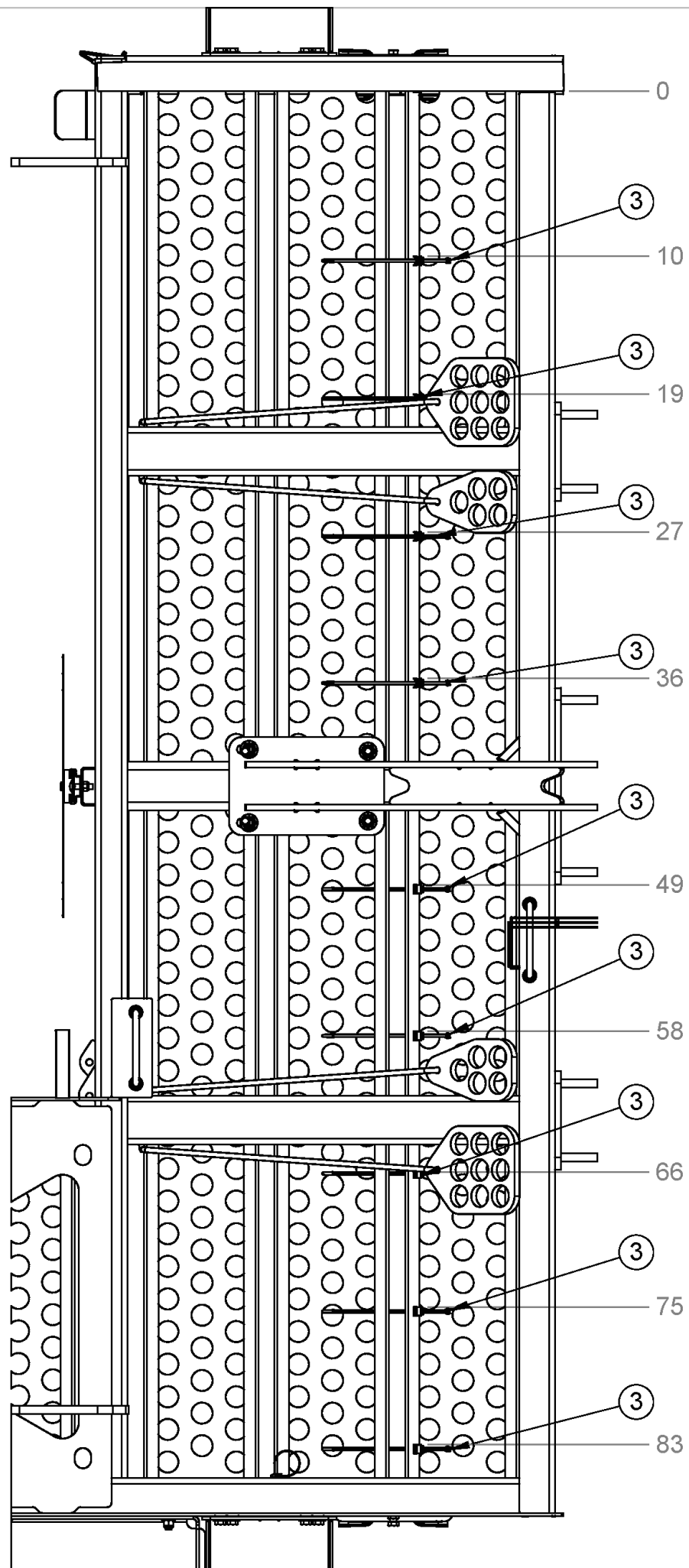
Cable Tie Mount Location (Left Side Near Switch)

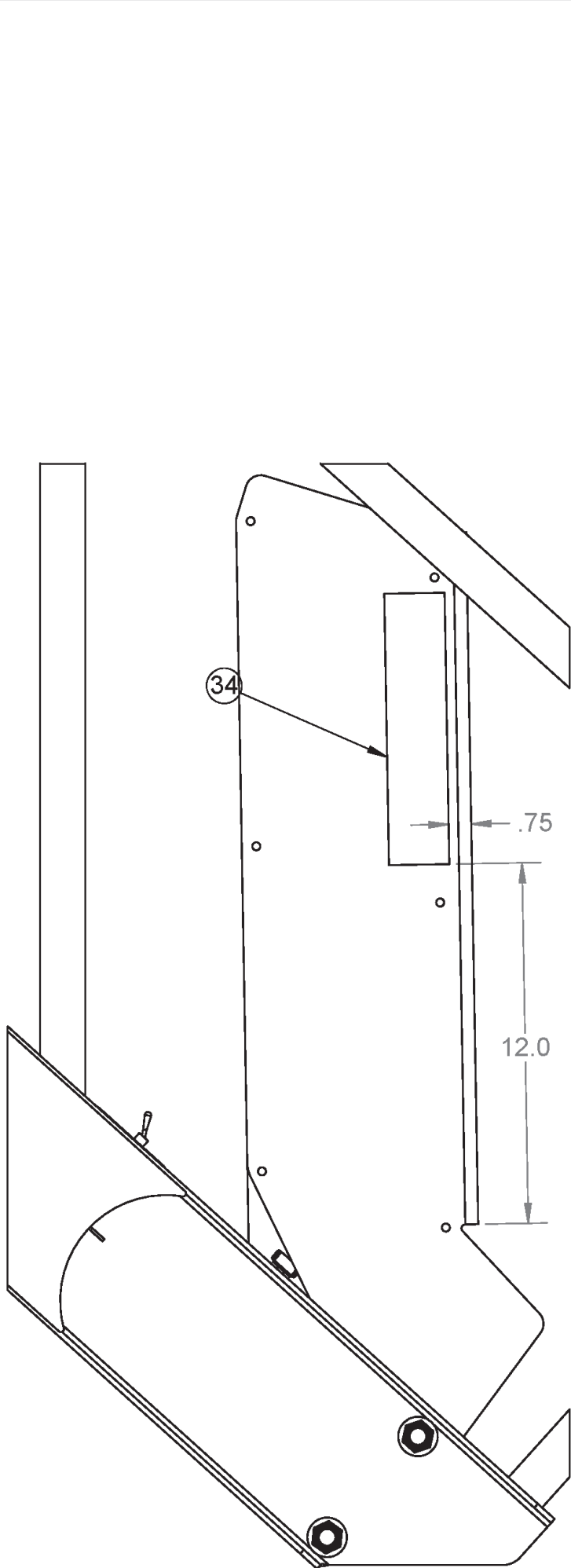


Cable Tie Mount Location (Left Side Looking Outwards)

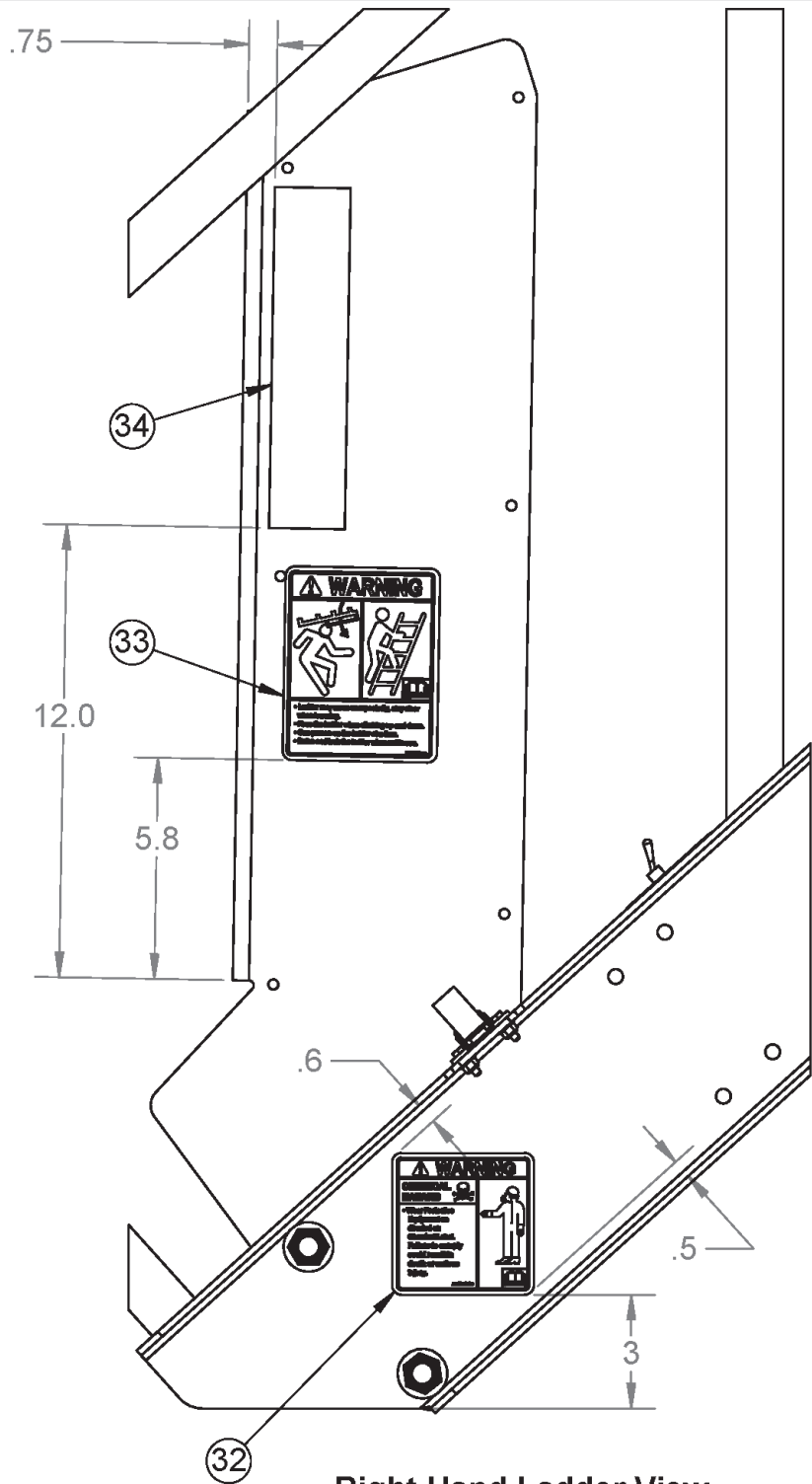


Cable Tie Mount Locations (Right Side, Looking Outward)

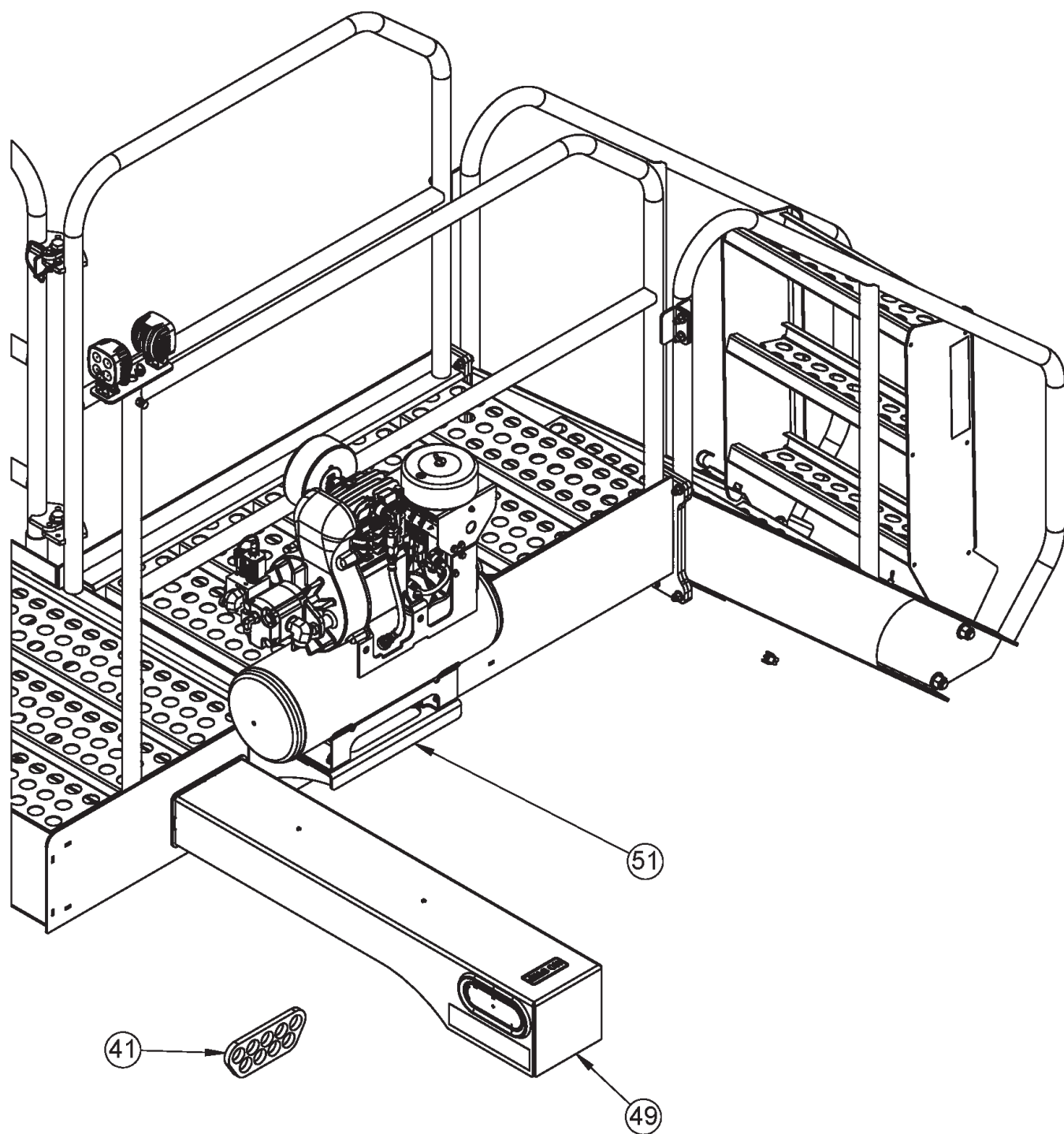


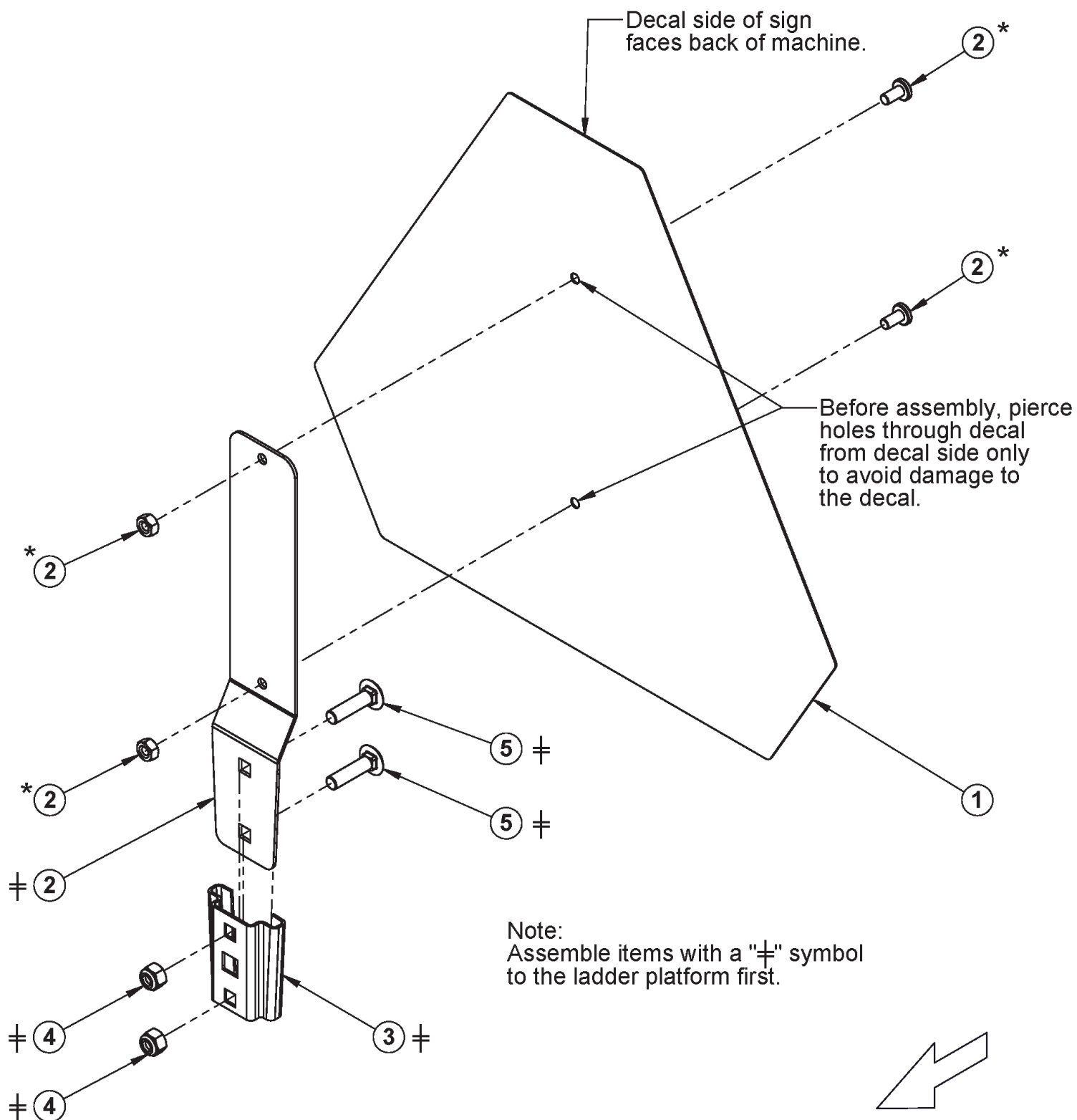


Left Hand Ladder View



Right Hand Ladder View

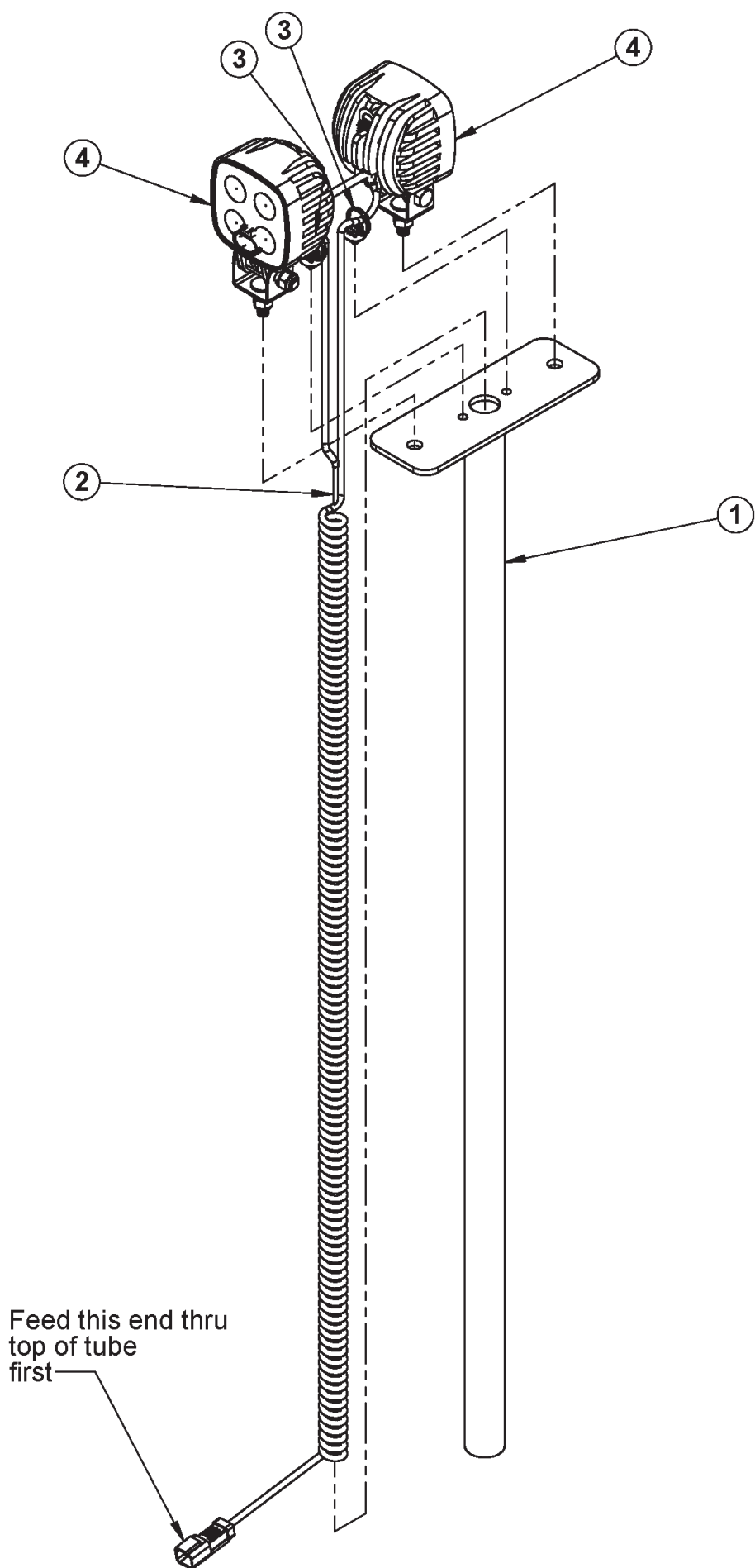




TA00678 Assy, SMV Sign

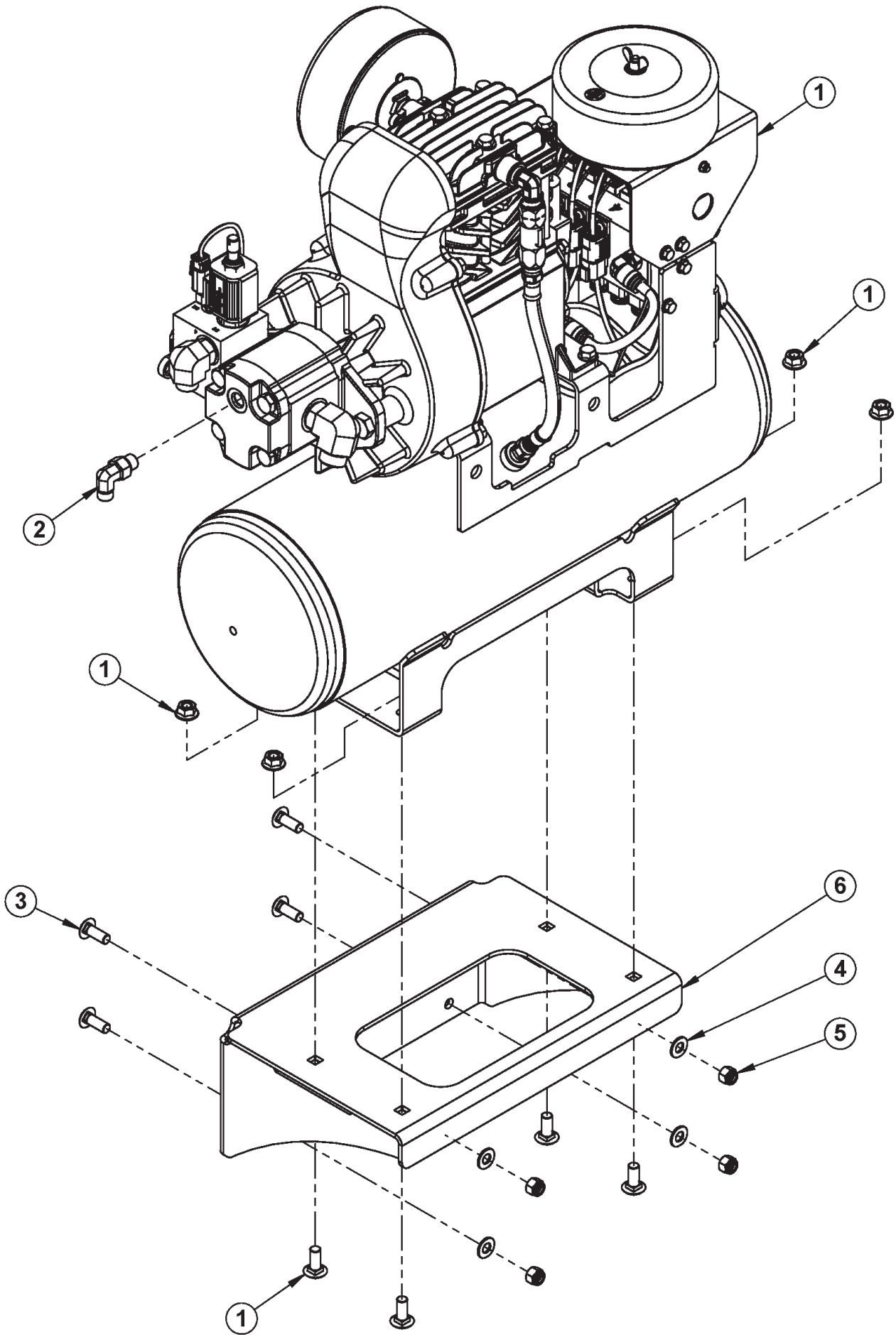
ITEM	PART NUMBER	DESCRIPTION	QTY	TORQUE (ft-lbs)
1	TA00670	Assy, SMV Plate w Decal	1	
2	TA00671	Assy, SMV Spade Mount	1	
3	T0051519	Receptacle, Female Spade SMV Sign	1	
4	NLNUT-0.313-18Y8	Nut, Nylock 5/16"-18-YZ8	2	
5	CB-0.313-18X1.25C5	RHSNBOLT 5/16-18x1.25-CZ5	2	

* Items marked with an asterisk, are items that are supplied with P/N TA00671.



TA01247 Assy, Light Arm Extension

ITEM	PART NUMBER	DESCRIPTION	QTY.	TORQUE (ft-lbs)
1	TW000875	Wldmt, Light Pole Bracket	1	
2	TA00995	Harness, Bulk Fill Light Ext	1	
3	CBLTIEMT-.256-.276-HL	Assy,CableTie Mnt .031-.276 PT	2	
4	TA01737	Assy, Work Light	2	

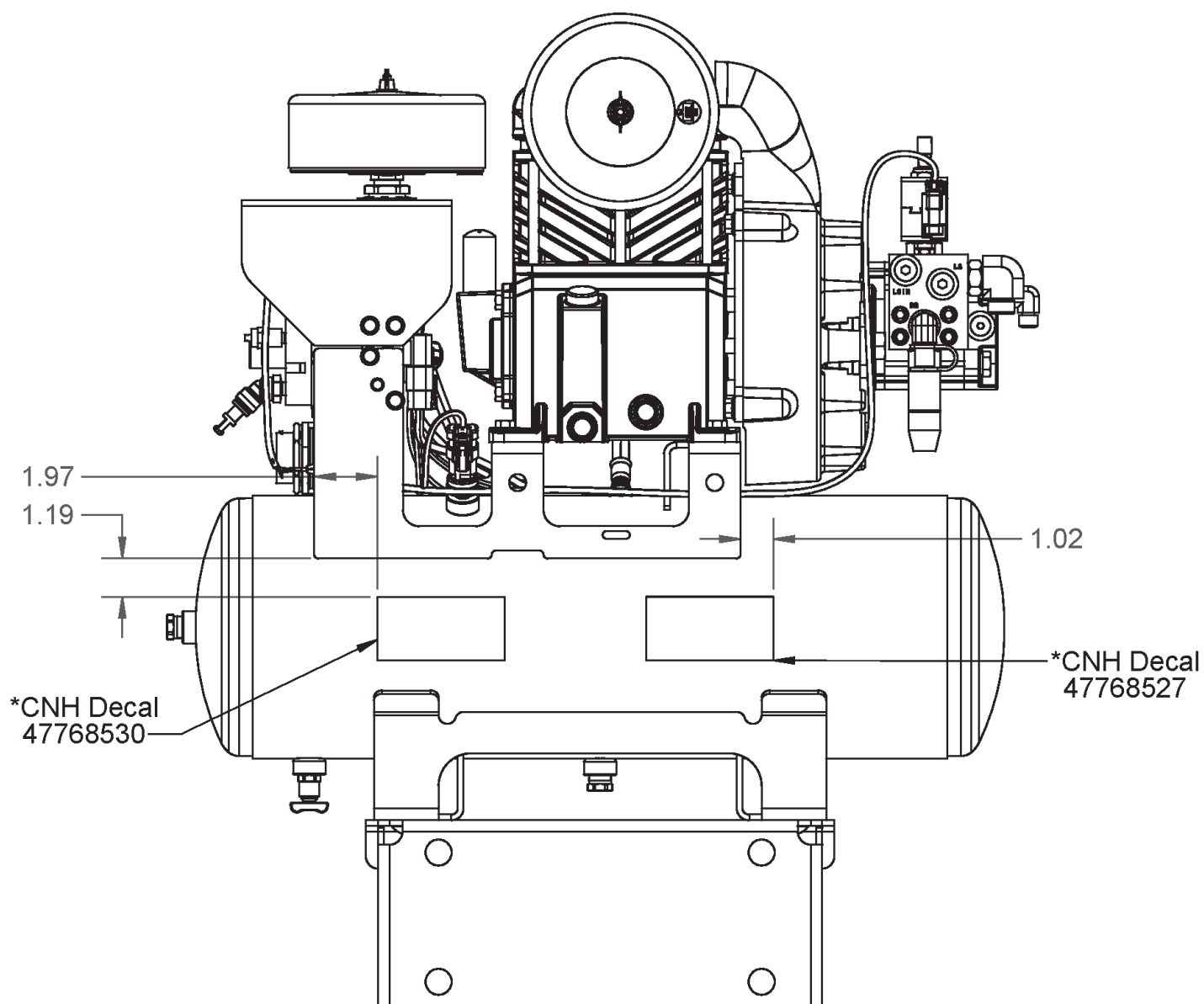


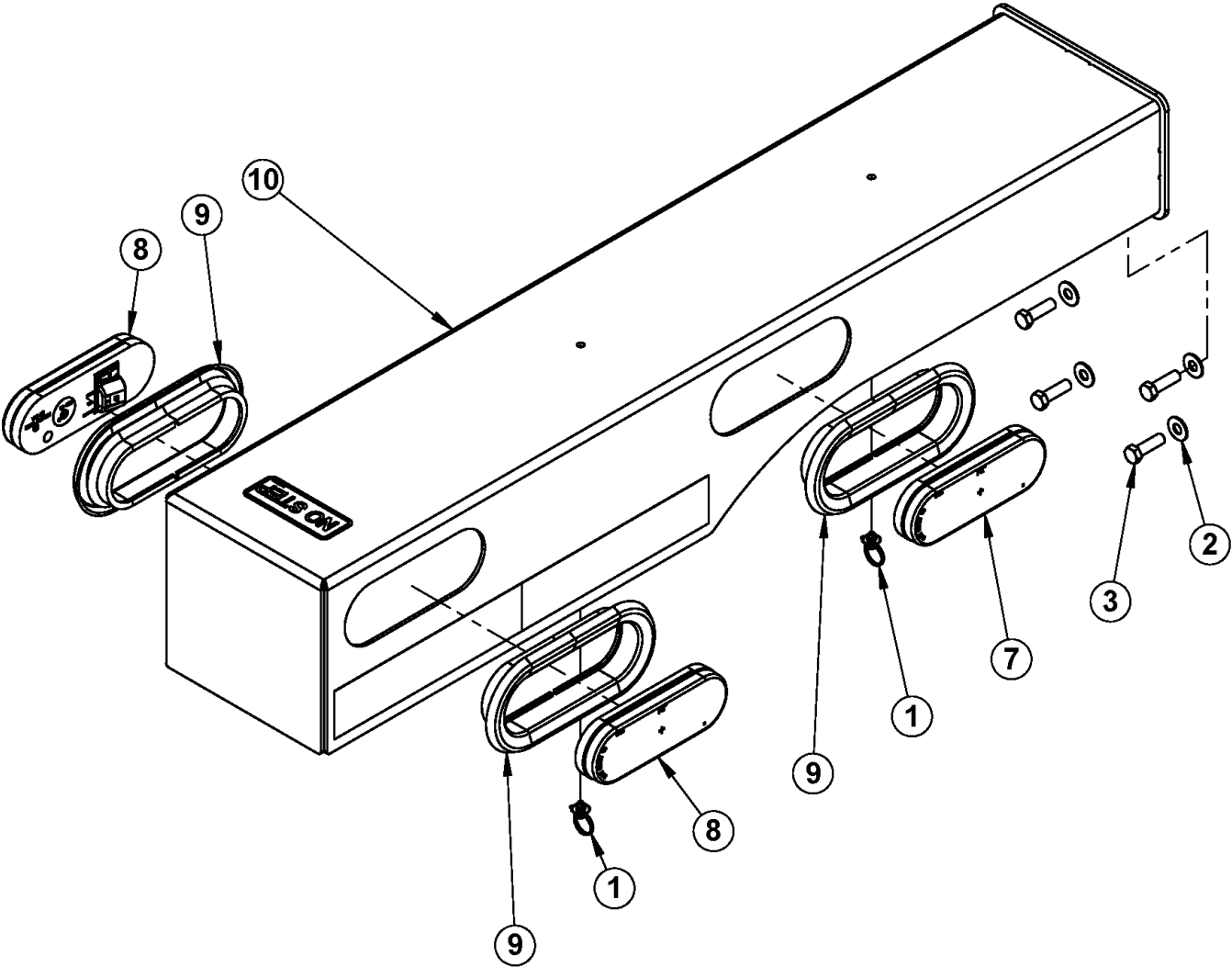
TA01947 Assy, Air Compressor

ITEM	PART NUMBER	DESCRIPTION	QTY.	TORQUE (ft-lbs)
1	48103377	Hyd Air Compressor	1	
2	AD-04MFS-06MB-90	AD-04MFS-06MB-90	1	
3	CB-0.375-16X1.00Y5	RHSNBOLT 0.375-16x1.00-YZ5	4	
4	FW-SAE-0.375Y	Washer, Flat SAE 3/8" YZ	4	
5	NLNUT-0.375-16Y8	Nut, Nylock 3/8-16 YZ8	4	
6	T0055604	Mount, Compressor	1	

Note:

1. **T=XXX** = Torque Expressed in ft-lbs (Use standard torque values from drawing T0000000 unless otherwise specified).
2. * Items marked with an asterisk are items that are included in that particular part or assembly.



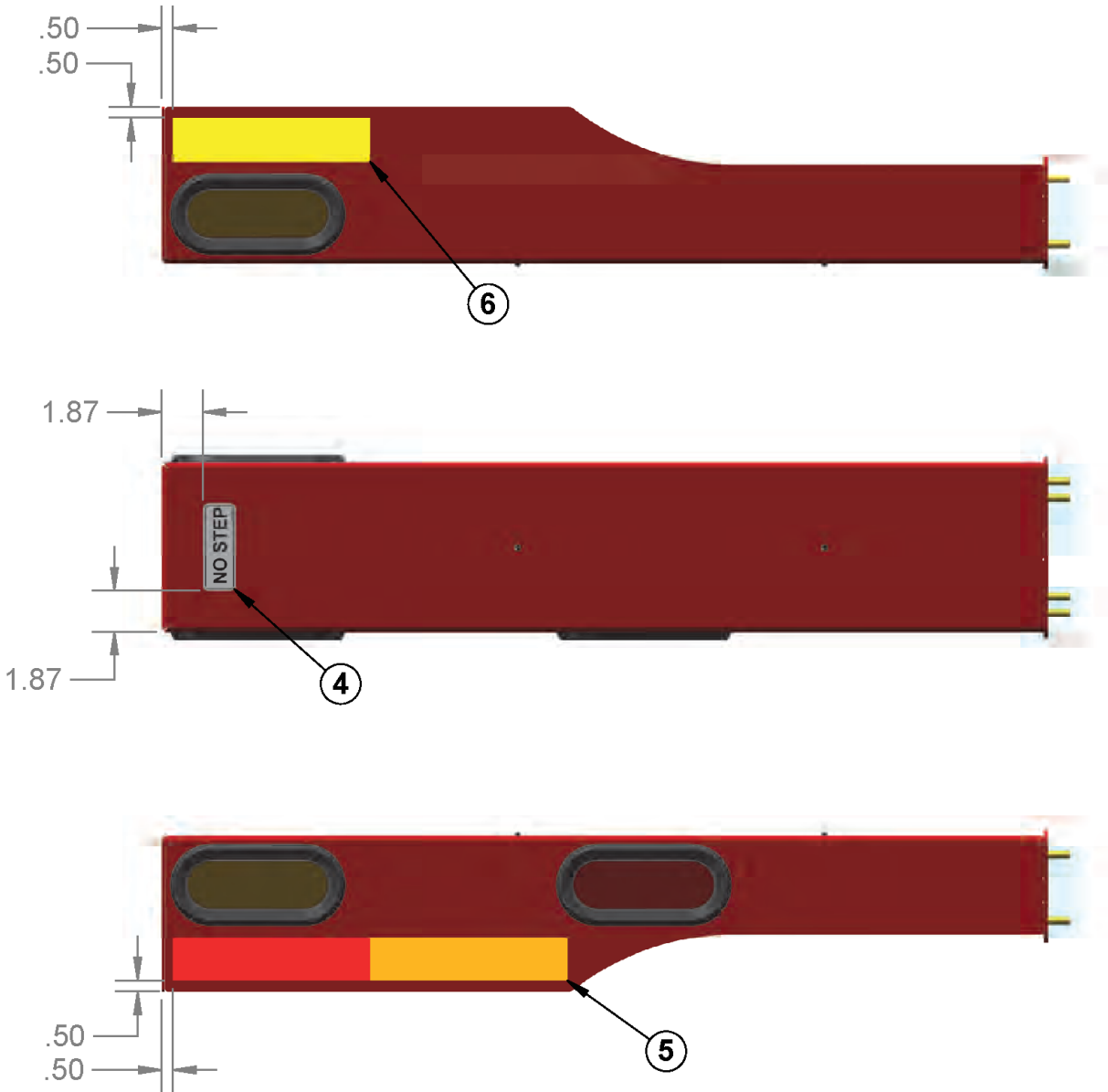


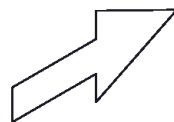
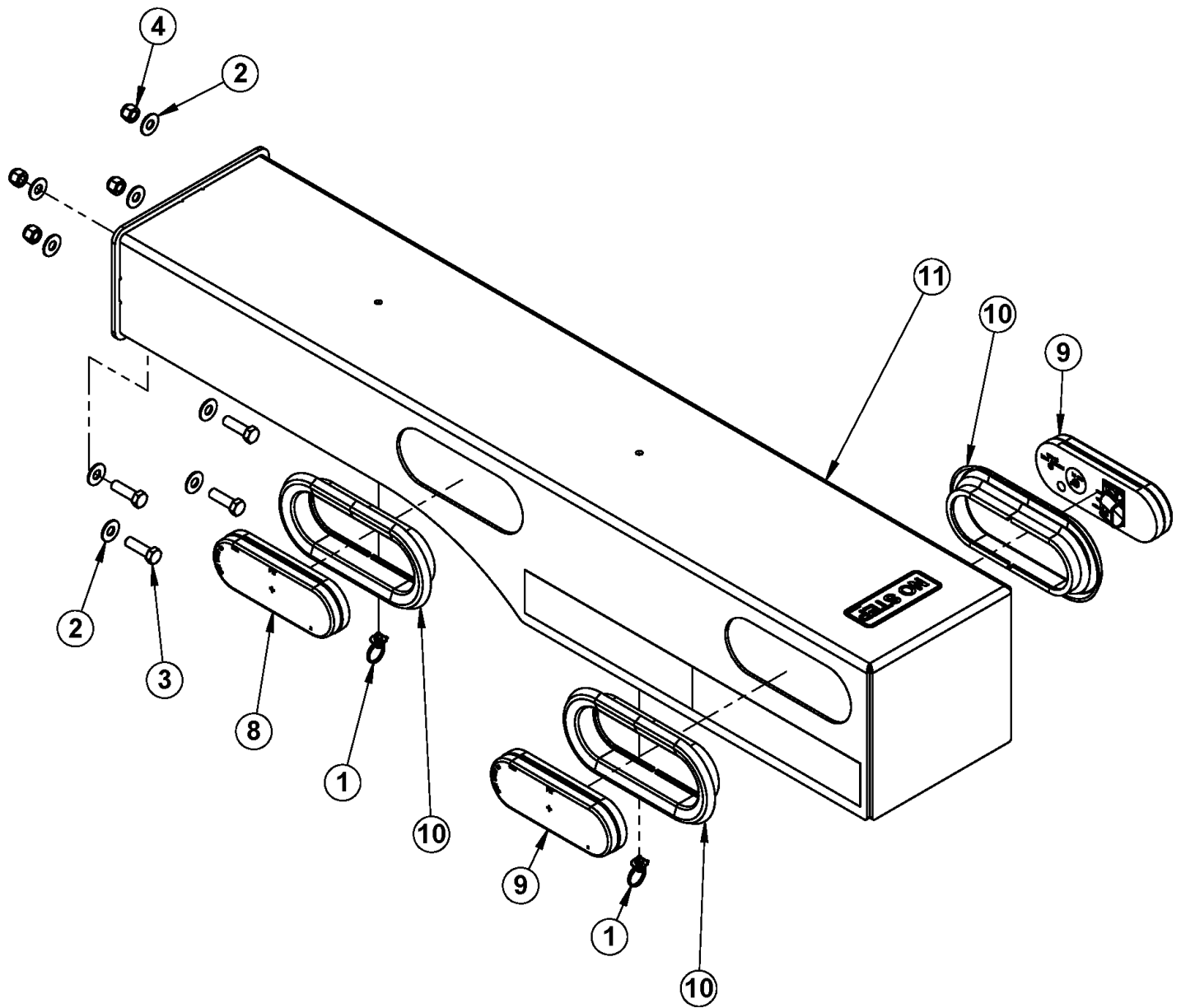
TA01943 Assy, LH LED Taillight

ITEM	PART NUMBER	DESCRIPTION	QTY.	TORQUE (ft-lbs)
1	CBLTIEMT-.256-.276-HL	Assy,CableTie Mnt .031-.276 PT	2	
2	FW-USS-0.313Y	Washer, Flat USS 5/16-YZ	4	
3	HB-0.375-16X1.25Y8	Bolt, Hex Hd 3/8-16x1-1/4 YZ8	4	
4	T0051653	Decal, No Step	1	
5	T0051727	Decal, Refl Red,Orange-2x18	1	
6	T0051729	Decal, Reflector,Yellow-2x9	1	
7	T0056010	Red LED Light	1	
8	T0056011	Amber LED Light	2	
9	T0056012	Grommet, LED Light	3	
10	TW001463	Wldmt, LH Taillight	1	

Note:

- T=XXX** = Torque Expressed in ft-lbs (Use standard torque values from drawing T0000000 unless otherwise specified.
- * Items marked with an asterisk are items that are included in that particular part or assembly.



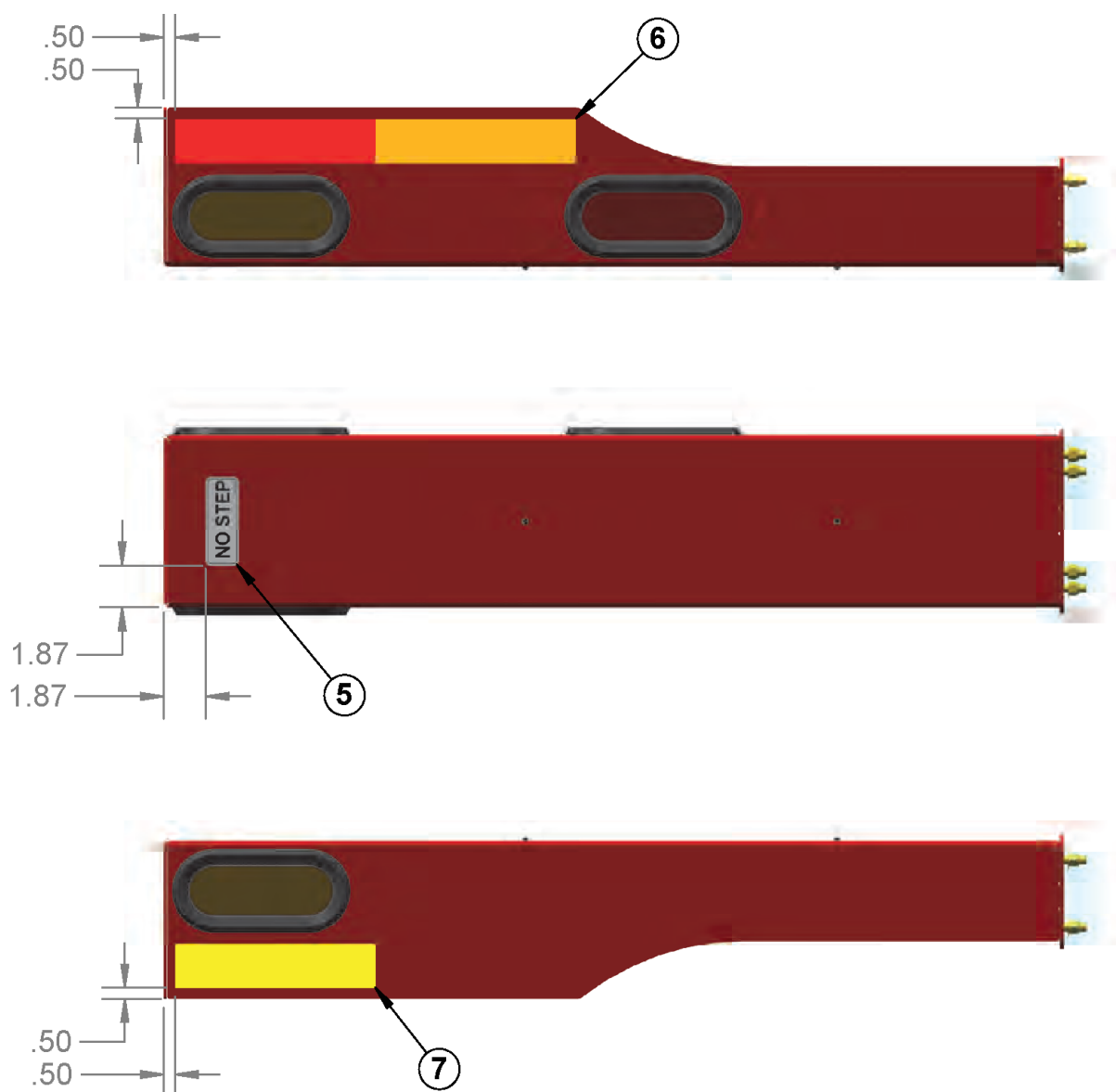


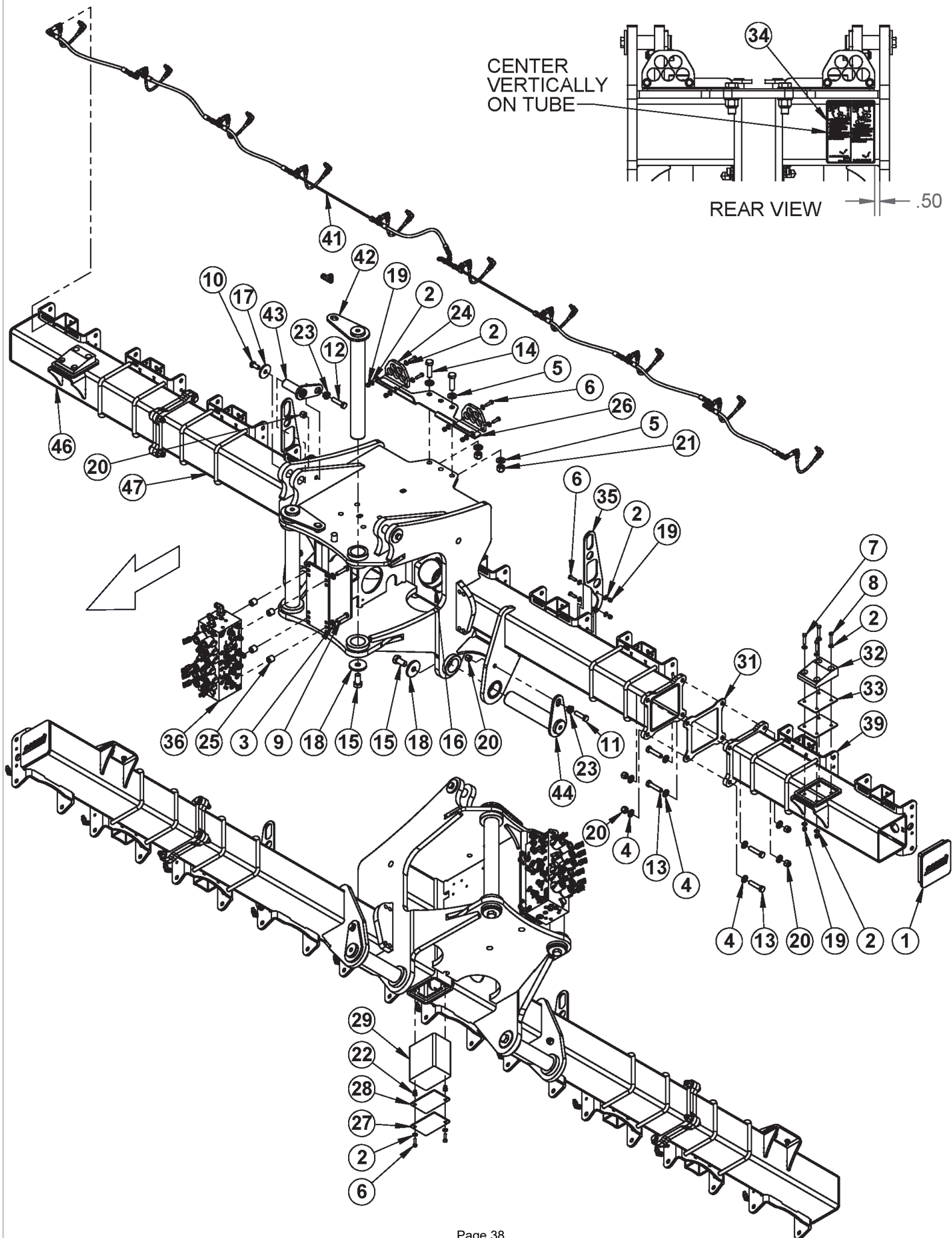
TA01944 Assy, RH LED Taillight

ITEM	PART NUMBER	DESCRIPTION	QTY.	TORQUE (ft-lbs)
1	CBLTIEMT-.256-.276-HL	Assy,CableTie Mnt .031-.276 PT	2	
2	FW-USS-0.313Y	Washer, Flat USS 5/16-YZ	8	
3	HB-0.375-16X1.25Y8	Bolt, Hex Hd 3/8-16x1-1/4 YZ8	4	
4	NLNUT-0.375-16Y8	Nut, Nylock 3/8-16 YZ8	4	
5	T0051653	Decal, No Step	1	
6	T0051727	Decal, Refl Red,Orange-2x18	1	
7	T0051729	Decal, Reflector, Yellow-2x9	1	
8	T0056010	Red LED Light	1	
9	T0056011	Amber LED Light	2	
10	T0056012	Grommet, LED Light	3	
11	TW001464	Wdmt, RH Taillight Mount	1	

Note:

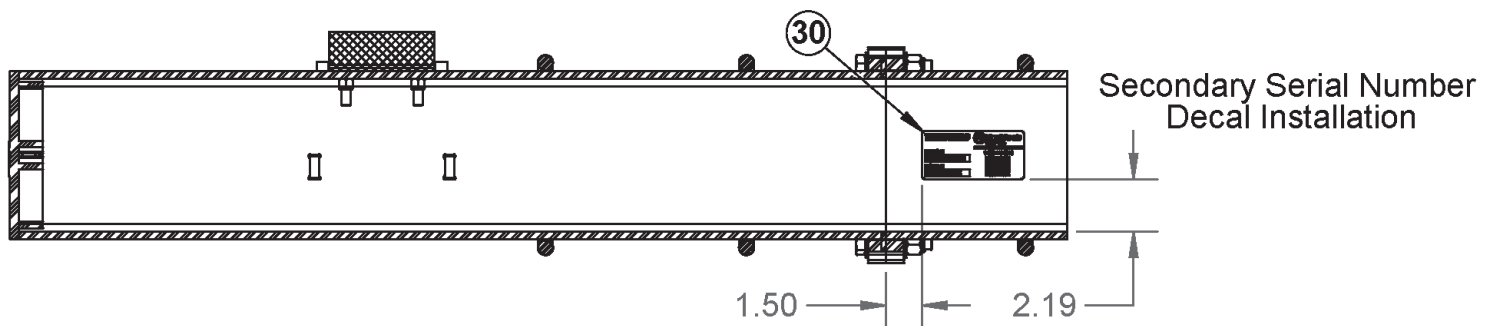
1. **T=XXX** = Torque Expressed in ft-lbs (Use standard torque values from drawing T0000000 unless otherwise specified.
2. * Items marked with an asterisk are items that are included in that particular part or assembly.

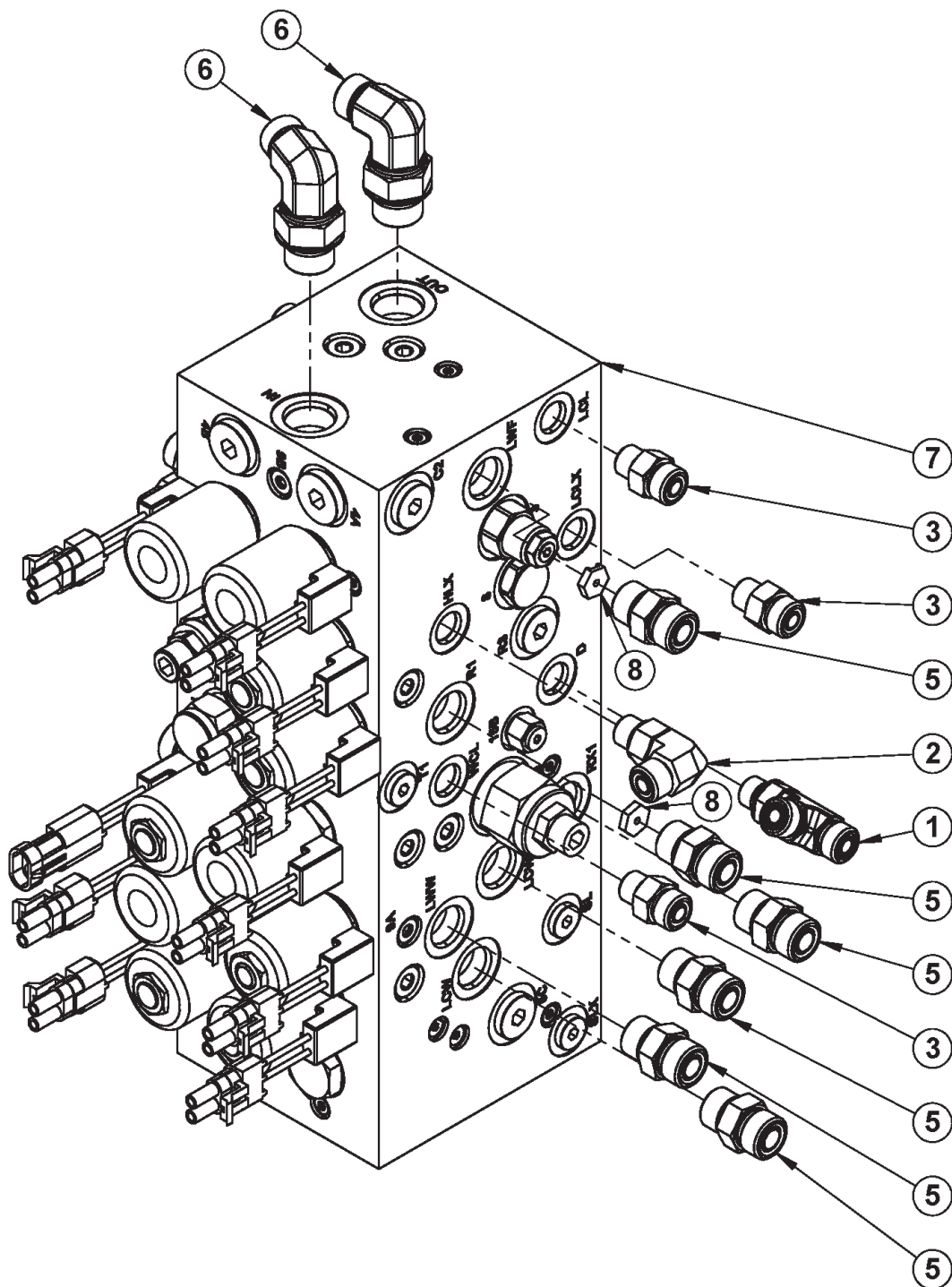




TA02010 Assy, 36R20 Center Bar Base

ITEM	PART NUMBER	DESCRIPTION	QTY	TORQUE (ft-lbs)
1	73368118	Cap, Case IH 7x7 Tube	2	
2	FW-SAE-0.375Y	Washer, Flat SAE 3/8 YZ	30	
3	FW-SAE-0.500Y	Washer, Flat SAE 1/2 YZ	4	
4	FW-SAE-0.625Y	Washer, Flat SAE 5/8 YZ	15	
5	FW-SAE-0.750Y	Washer, Flat SAE 3/4 YZ	4	
6	HB-0.375-16X1.25Y8	Bolt, Hex Hd 3/8-16x1-1/4 YZ8	10	
7	HB-0.375-16X1.75Y8	Bolt, Hex Hd 3/8-16x1-3/4 YZ8	4	
8	HB-0.375-16X2.00Y8	Bolt, Hex Hd 3/8-16x2 YZ8	4	
9	HB-0.500-13X2.25Y8	Bolt, Hex Hd 1/2-13x2-1/4 YZ8	4	
10	HB-0.625-11X1.25Y8	Bolt, Hex Hd 5/8-11x1-1/4 YZ8	2	
11	HB-0.625-11X2.25Y8	Bolt, Hex Hd 5/8-11x2-1/4 YZ8	2	
12	HB-0.625-11X2.50Y8	Bolt, Hex Hd 5/8-11x2-1/2 YZ8	2	
13	HB-0.625-11X2.75Y8	Bolt, Hex Hd 5/8-11x2-3/4 YZ8	8	
14	HB-0.750-10X2.75Y8	Bolt, Hex Hd 3/4-10x2-3/4 YZ8	2	
15	HB-0.875-9X1.75Y8	Bolt, Hex Hd 7/8-9x1-3/4 YZ8	4	
16	HCLMP-SAE-512SS	Hose Clamp, SAE #512 SS	2	
17	HDWSH-0.64X2.50Y	HD Washer, 41/64x2-1/2 YZ	2	
18	HDWSH-0.89X3.00Y	HD Washer, 57/64x3 YZ	4	
19	NLNUT-0.375-16Y8	Nylon Lock Nut, 3/8-16 YZ8	16	
20	NLNUT-0.625-11Y8	Nylon Lock Nut, 5/8-11 YZ8	12	
21	NLNUT-0.750-10Y8	Nylon Lock Nut, 3/4-10 YZ8	2	
22	RN-0.375-16-.15-.31Y	Rivet Nut, 3/8-16x0.150-0.312 YZ	2	
23	T0050854	Anti Rotation Insert	4	
24	T0052450	Guide, Hose Seed Tube Cen Fr	2	
25	T0052525	Spacer, L&F Valve	4	
26	T0054208	Brkt, Seed Hose Mtg	1	
27	T0054651	Clean Out Cover	1	
28	T0054652	Seal, Clean Out Cover	1	
29	T0054653	Foam Block	1	
30	T0055737	Decal, S/N Yieldtrac (Generic)	1	
31	T0056079	Seal, Centerbar End	2	
32	T0056151	Block, Slider	2	
33	T0056152	Shim, Slider	4	
34	T0056182	Decal, Warning Row Unit Lift Lock	1	
35	T0056223	Plate, Seed Tube Routing	2	
36	TA01929	Assy, Lift & Fold Valve (Dual Wheel)	1	
37	TA01990	Assy, RU Bolt-On Head Bracket	1	
38	TA01990	Assy, RU Bolt-On Head Bracket	1	
39	TA01990	Assy, RU Bolt-On Head Bracket	1	
40	TA01990	Assy, RU Bolt-On Head Bracket	1	
41	TA01998	Assy, 36R20 Center RU Lift Hose Routing	1	
42	TW001008	Pin Weldment	2	
43	TW001009	Pin Weldment	2	
44	TW001012	Pin Weldment	2	
45	TW001456	Wldmt, 36R20 LH CB End	1	
46	TW001457	Wldmt, 36R20 RH CB End	1	
47	TW001478	Wldmt, 20" Center Bar	1	



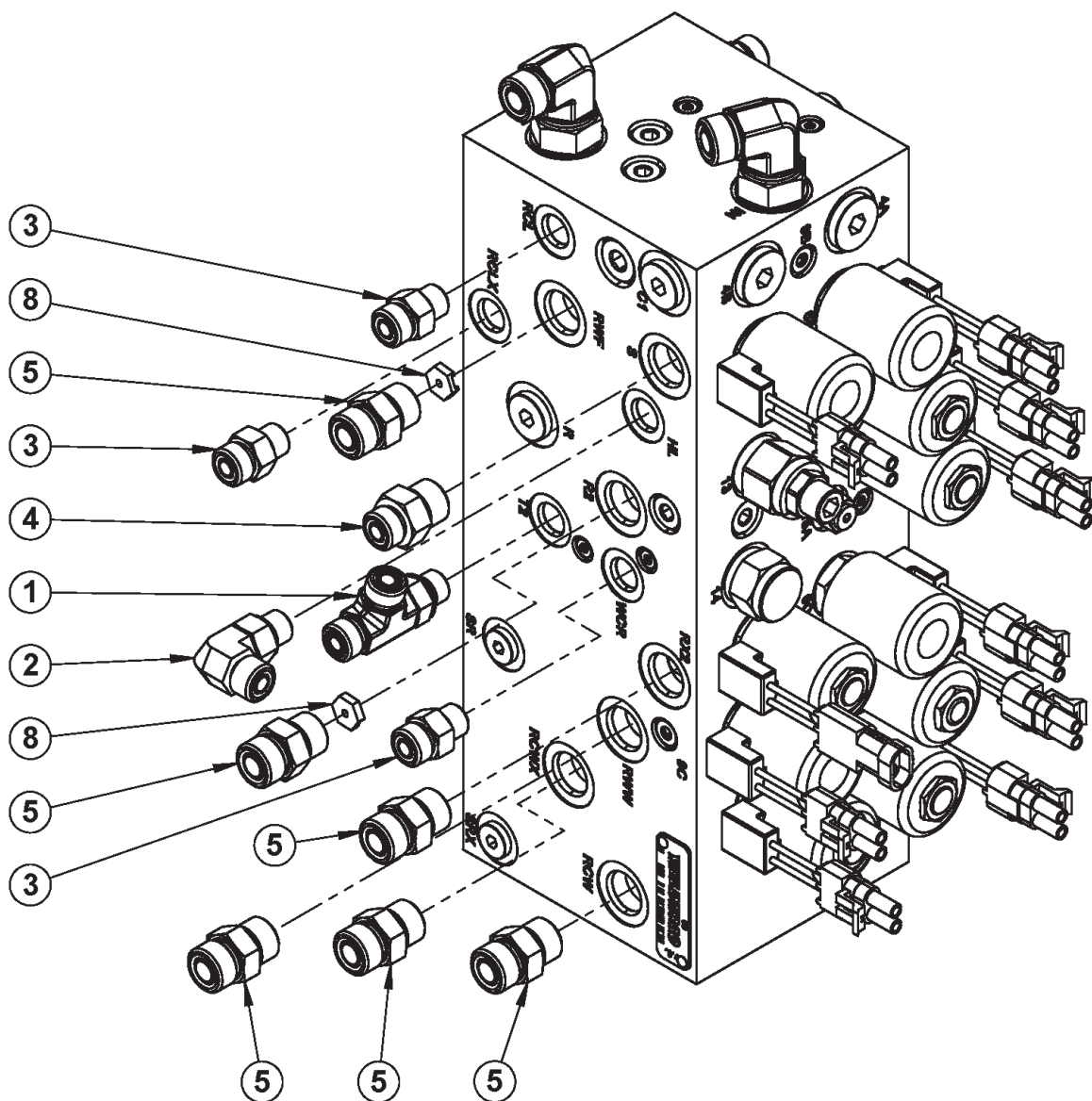


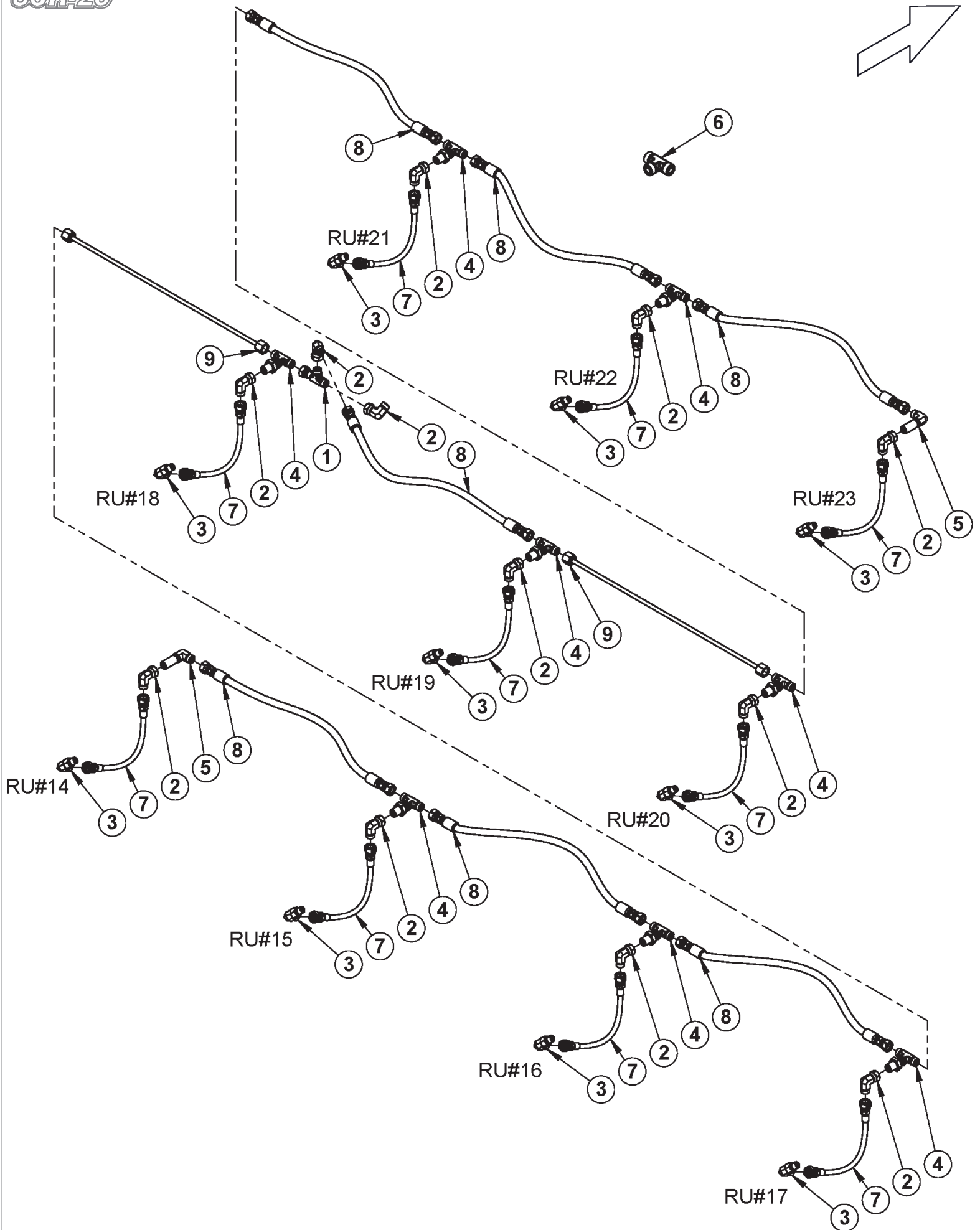
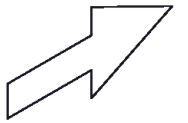
TA01929 Assy, Lift & Fold Valve (Dual Wheel)

ITEM	PART NUMBER	DESCRIPTION	QTY	TORQUE (ft-lbs)
1	AD-06MFS-06MB-06MFS	AD-06MFS-06MB-06MFS	2	
2	AD-06MFS-06MB-90	AD-06MFS-06MB-90	2	
3	AD-06MFS-06MB	AD-06MFS-06MB	6	
4	AD-06MFS-08MB	AD-06MFS-08MB	1	
5	AD-08MFS-08MB	AD-08MFS-08MB	12	
6	AD-08MFS-10MB-90	AD-08MFS-10MB-90	2	
7	T0055983	Manifold Assy, Lift & Fold	1	
8	T0055997	Orifice Disc #8-.125"	4	

Note:

1. [T=XXX] = Torque Expressed in ft-lbs (Use standard torque values from drawing T0000000 unless otherwise specified.
2. * Items marked with an asterisk are items that are included in that particular part or assembly.



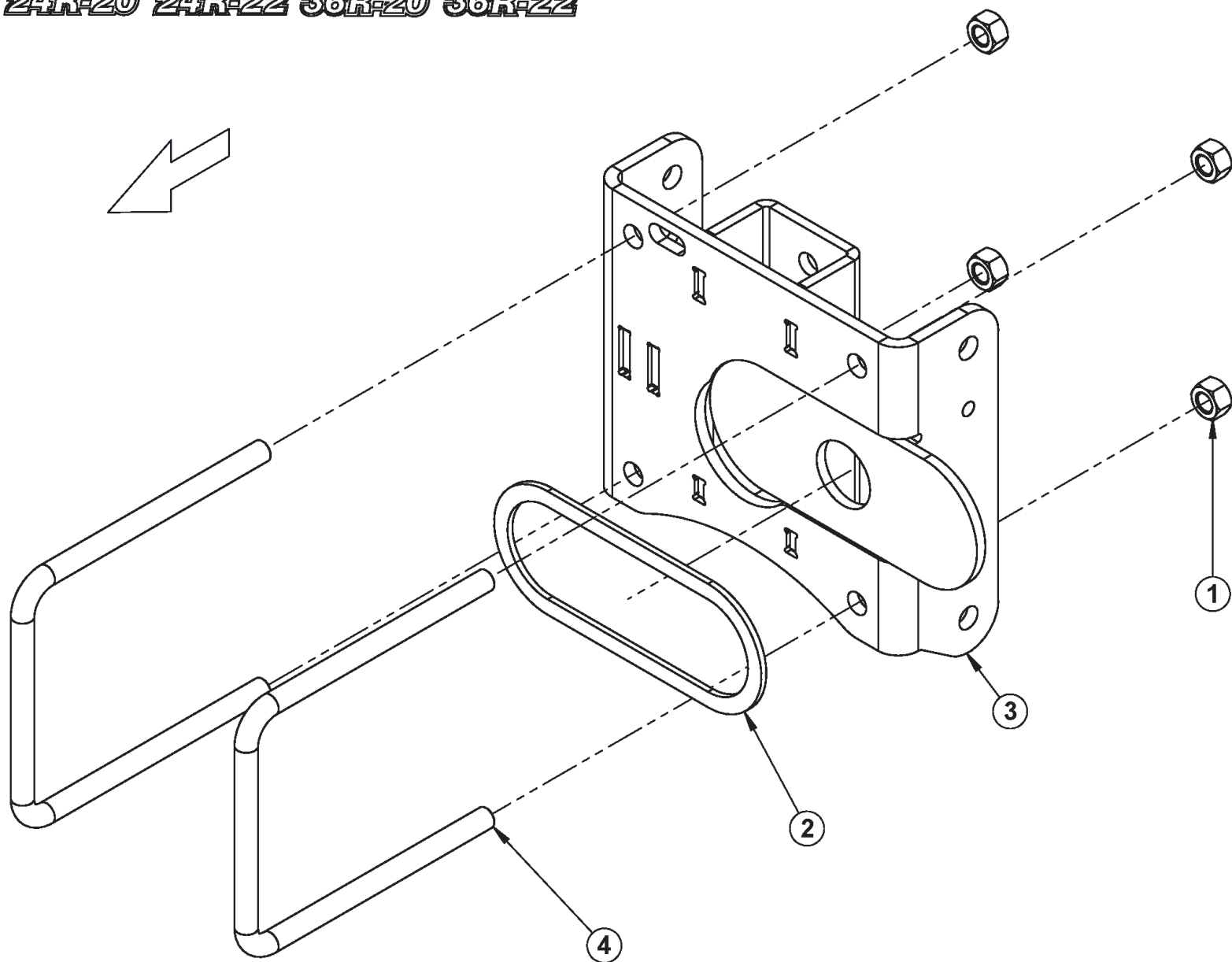


TA01998 Assy, 36R20 Center RU Lift Hose Routing

ITEM	PART NUMBER	DESCRIPTION	QTY	TORQUE (ft-lbs)
1	AD-04MFS-04FST-04MFS	Adapter, 04MFS-04FST-04MFS Tee	1	
2	AD-04MFS-04FST-90	Adapter, 04MFS-04FST 90	12	
3	AD-04MFS-04MB-90	Adapter, 04MFS-04MB 90	10	
4	AD-04MFS-04MFS-04MFS-BH	Adapter, 04MFS-04MFS-04MFS BH Tee	8	
5	AD-04MFS-04MFS-BH90	Adapter, 04MFS-04MFS BH 90	2	
6	AD-08MFS-08MFS-08MFS	Adapter, 08MFS-08MFS-08MFS Tee	1	
7	HS02-009-04FS-04FS	Hose 0.125-009-04FS-04FS	10	
8	HS04-019-04FS-04FS-A	Hose 0.250-019-04FS-04FS-A	7	
9	T0056084	Tube Assy, Row Lift 20" Spacing	2	

Note:

1. **T=XXX** = Torque Expressed in ft-lbs (Use standard torque values from drawing T0000000 unless otherwise specified.
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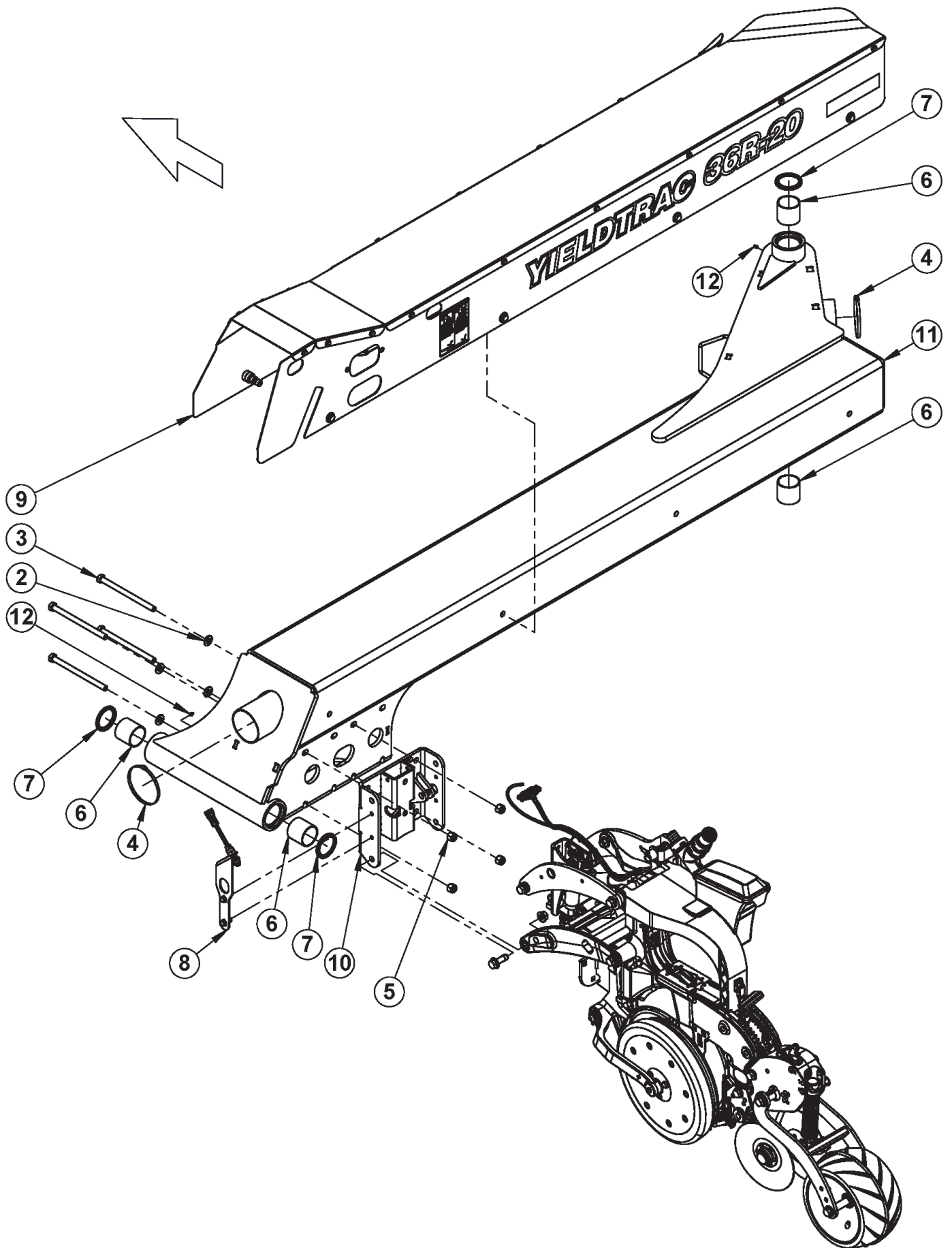


TA01990 Assy, RU Bolt-On Head Bracket

ITEM	PART NUMBER	DESCRIPTION	QTY	TORQUE (ft-lbs)
1	HNUT-0.625-11Y8	Nut, Hex 5/8-11 YZ8	4	
2	T0055974	Seal, Row Unit Bolt-On Brkt	1	
3	TW001476	Wdmt, RU Bolt-On Head Bracket W/Seal	1	
4	UB-0.63X7.0X7.0-SY8	UBolt 0.625x7x7-YZ	2	

Note:

1. **T=XXX** = Torque Expressed in ft-lbs (Use standard torque values from drawing T0000000 unless otherwise specified.
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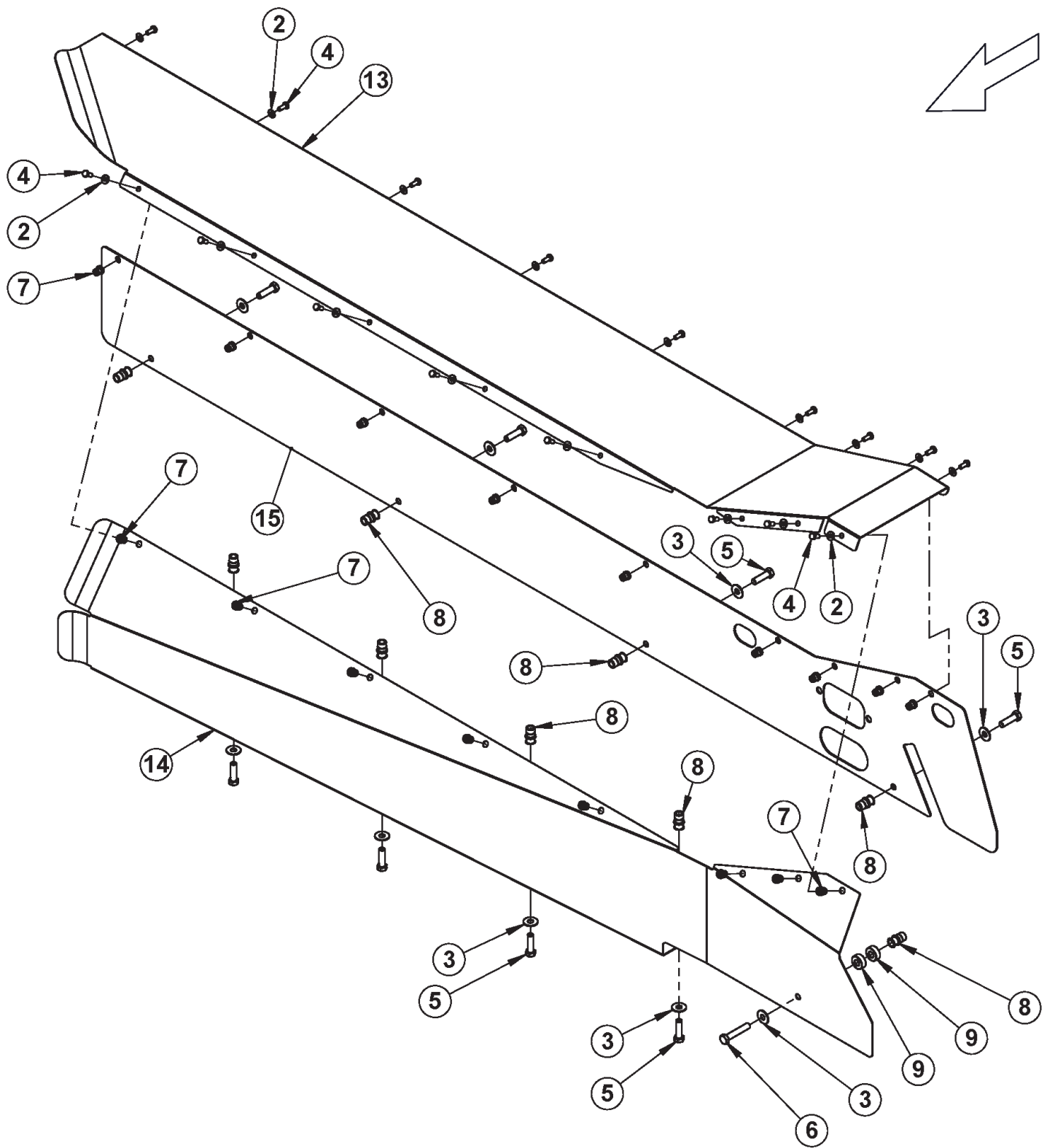


TA02012 Assy, 36R20 LH Stub Arm

ITEM	PART NUMBER	DESCRIPTION	QTY	TORQUE (ft-lbs)
1	48098614	2000 LH Row Unit	1	
2	FW-SAE-0.625Y	Washer, Flat SAE 5/8 YZ	4	
3	HB-0.625-11X9.00Y8	Bolt, Hex Hd 5/8-11x9 YZ8	4	
4	HCLMP-SAE-512SS	Hose Clamp, SAE #512 SS	2	
5	NLNUT-0.625-11Y8	Nylon Lock Nut, 5/8-11 YZ8	4	
6	PB-2.500X2.75X2.50	Bushing, Composite 2-1/2x2-3/4x2-1/2	4	
7	T0051584	2.50 Grease Seal	3	
8	TA01973	Assy, Row Lift Sensor	1	
9	TA02097	Assy, 60' LH SA Shield	1	
10	TW001475	Wldmt, RU Bolt-On Head Bracket	1	
11	TW001490	Wldmt, 60' LH Stub Arm	1	
12	ZERK-0.250-28	Zerk, 1/4-28	2	

Note:

1. **T=XXX** = Torque Expressed in ft-lbs (Use standard torque values from drawing T0000000 unless otherwise specified.
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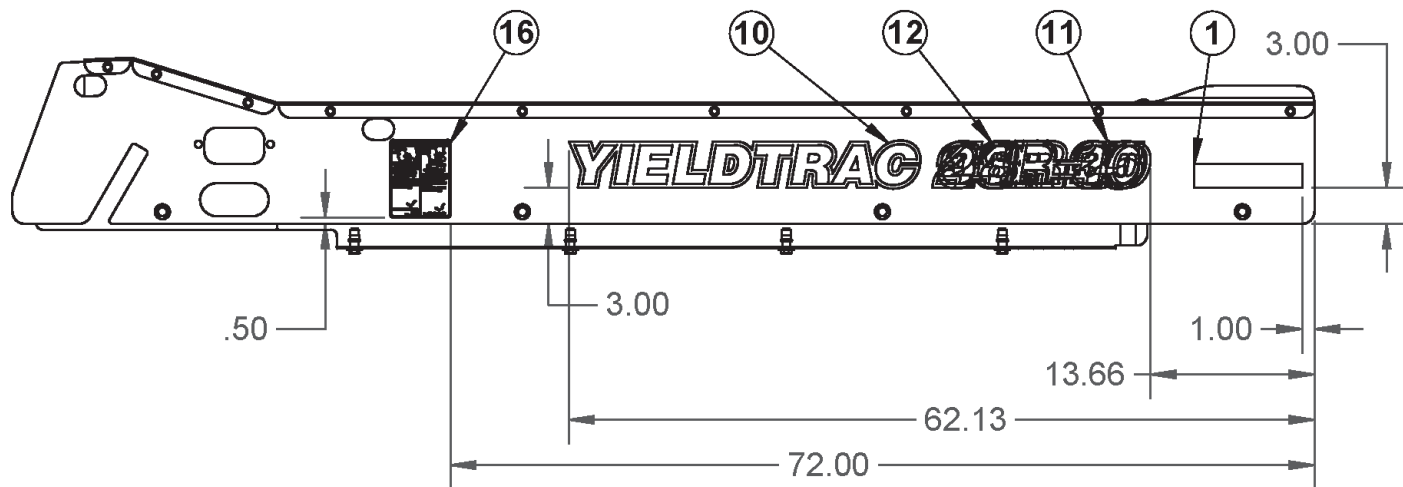


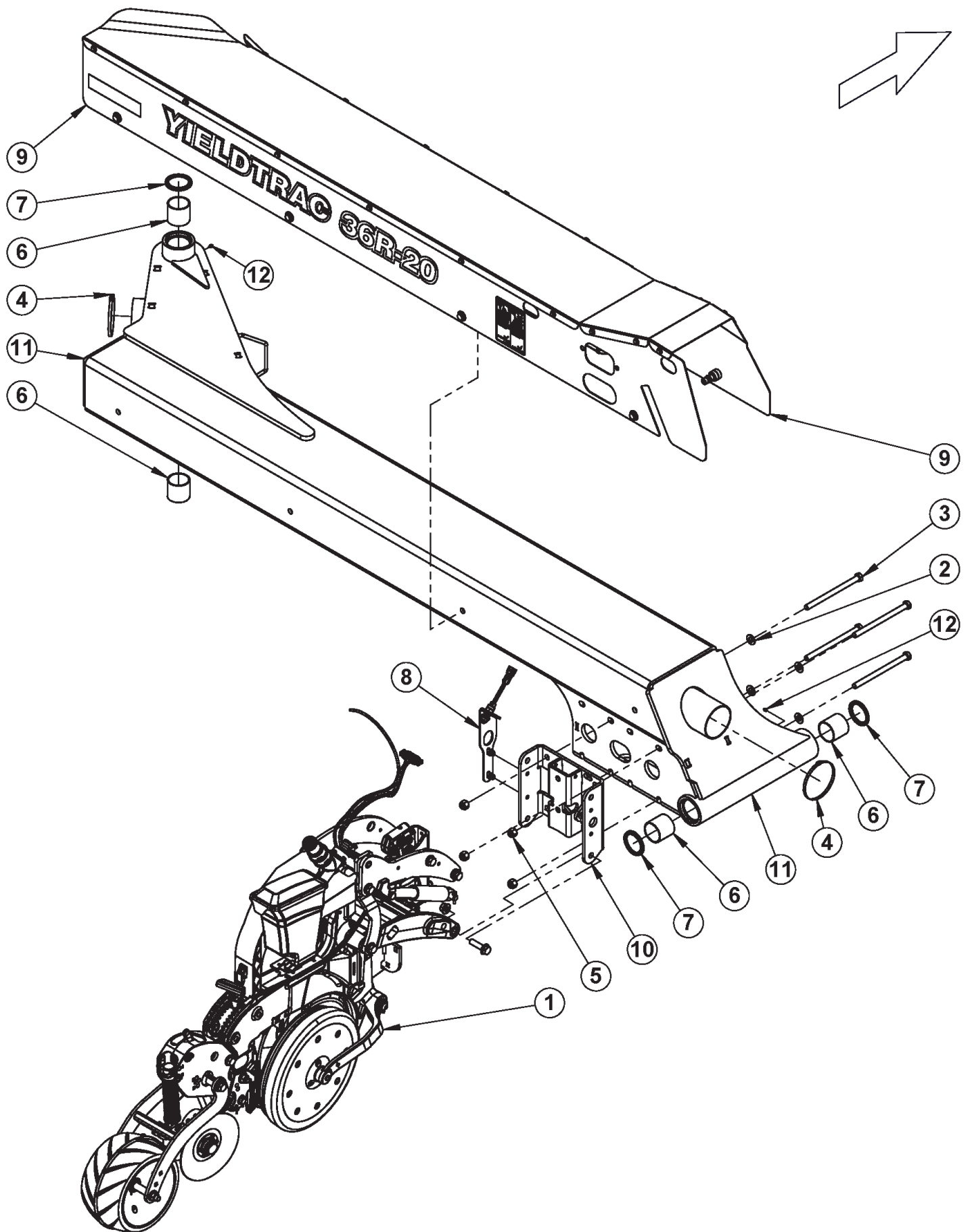
TA02097 Assy, 60' LH SA Shield

ITEM	PART NUMBER	DESCRIPTION	QTY.	TORQUE (ft-lbs)
1	90-44-0410	Decal, Reflector,Yellow-2x9	1	
2	FW-USS-0.250Y	Washer, Flat USS 1/4" YZ	17	
3	FW-USS-0.438Y	Washer, Flat-USS 7/16-YZ	9	
4	HB-0.313-18X0.75Y8	Bolt, Hex Hd 5/16-18x3/4-YZ8	17	
5	HB-0.500-13X1.75Y8	Bolt, Hex Hd 1/2-13x1-3/4 YZ8	8	
6	HB-0.500-13X2.75Y8	Bolt, Hex Hd 1/2-13x2-3/4 YZ8	1	
7	RN-0.313-18-.03-.15Y	Rivnut, 5/16-18 UNC .027-.150	17	
8	RN-0.500-13-.35-.50Y	Rivnut, 1/2-13 .350-.500 GR	9	
9	T0052276	Spacer	2	
10	T0052651	Decal, Yldtrac 24R-30-3.8x48.5	1	
11	T0054100	Decal, Yldtrac 48R15-3.8x47.9	1	
12	T0054235	Decal, Yldtrac 36R20-3.8x47.9	1	
13	T0055622	Cover, LH Stub Arm Shield	1	
14	T0055623	Shield, LH Stub Arm Front	1	
15	T0056180	Panel, 60' Stub Arm Back	1	
16	T0056182	Decal, Danger Row Unit Lift Lock	1	

Note:

1. **T=XXX** = Torque Expressed in ft-lbs (Use standard torque values from drawing T0000000 unless otherwise specified).
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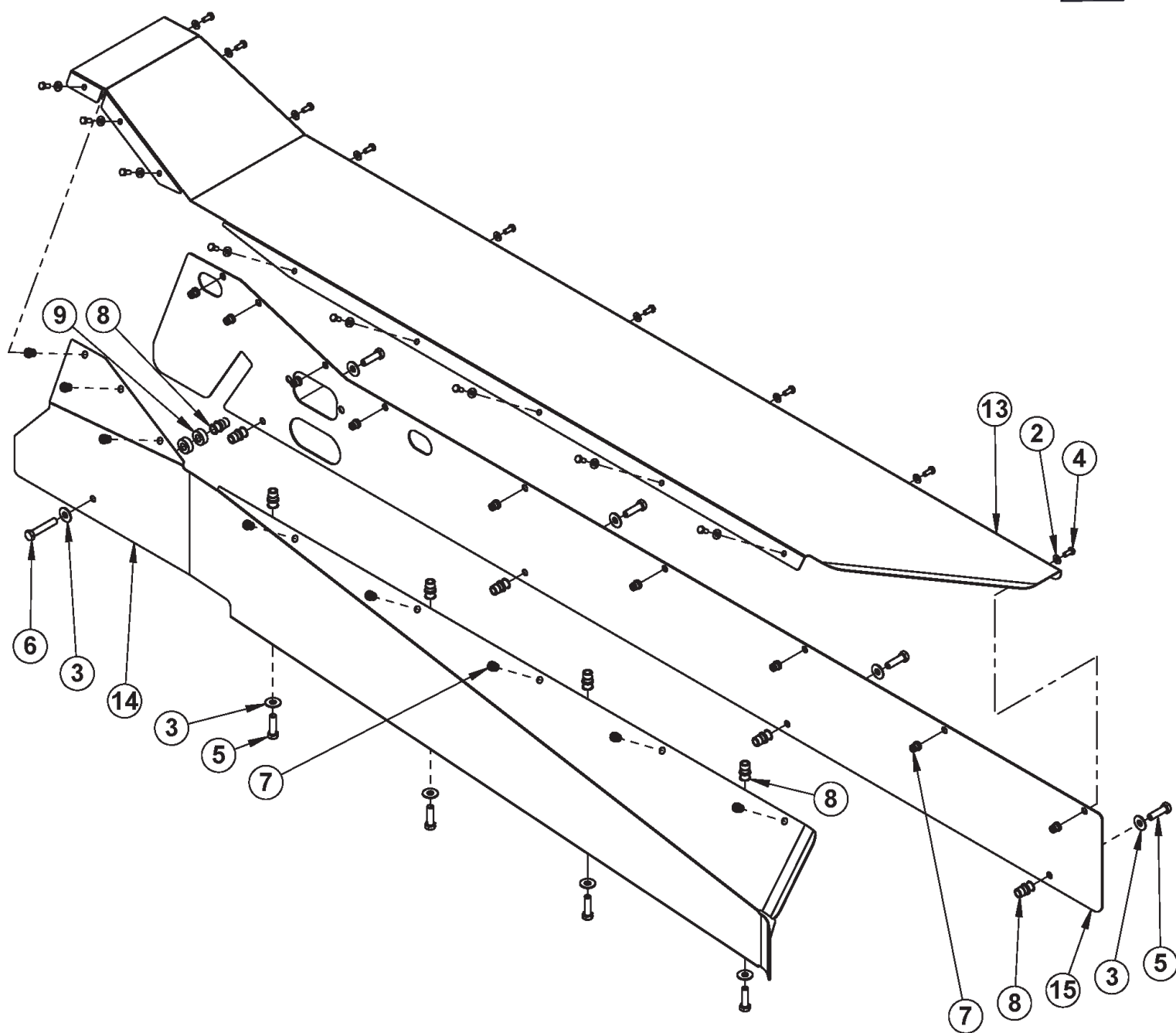


TA02013 Assy, 36R20 RH Stub Arm

ITEM	PART NUMBER	DESCRIPTION	QTY	TORQUE (ft-lbs)
1	48098615	2000 RH Row Unit	1	
2	FW-SAE-0.625Y	Washer, Flat SAE 5/8 YZ	4	
3	HB-0.625-11X9.00Y8	Bolt, Hex Hd 5/8-11x9 YZ8	4	
4	HCLMP-SAE-512SS	Hose Clamp, SAE #512 SS	2	
5	NLNUT-0.625-11Y8	Nylon Lock Nut, 5/8-11 YZ8	4	
6	PB-2.500X2.75X2.50	Bushing, Composite 2-1/2x2-3/4x2-1/2	4	
7	T0051584	2.50 Grease Seal	3	
8	TA01973	Assy, Row Lift Sensor	1	
9	TA02098	Assy, 60' RH SA Shield	1	
10	TW001475	Wldmt, RU Bolt-On Head Bracket	1	
11	TW001491	Wldmt, 60' RH Stub Arm	1	
12	ZERK-0.250-28	Zerk, 1/4-28	2	

Note:

1. **T=XXX** = Torque Expressed in ft-lbs (Use standard torque values from drawing T0000000 unless otherwise specified.
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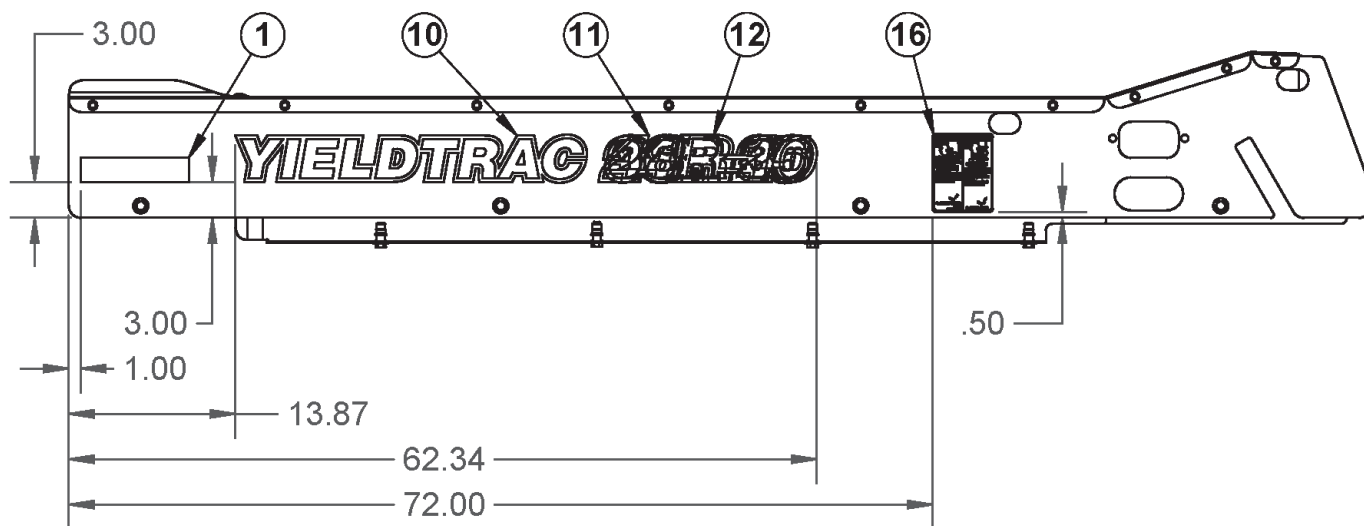


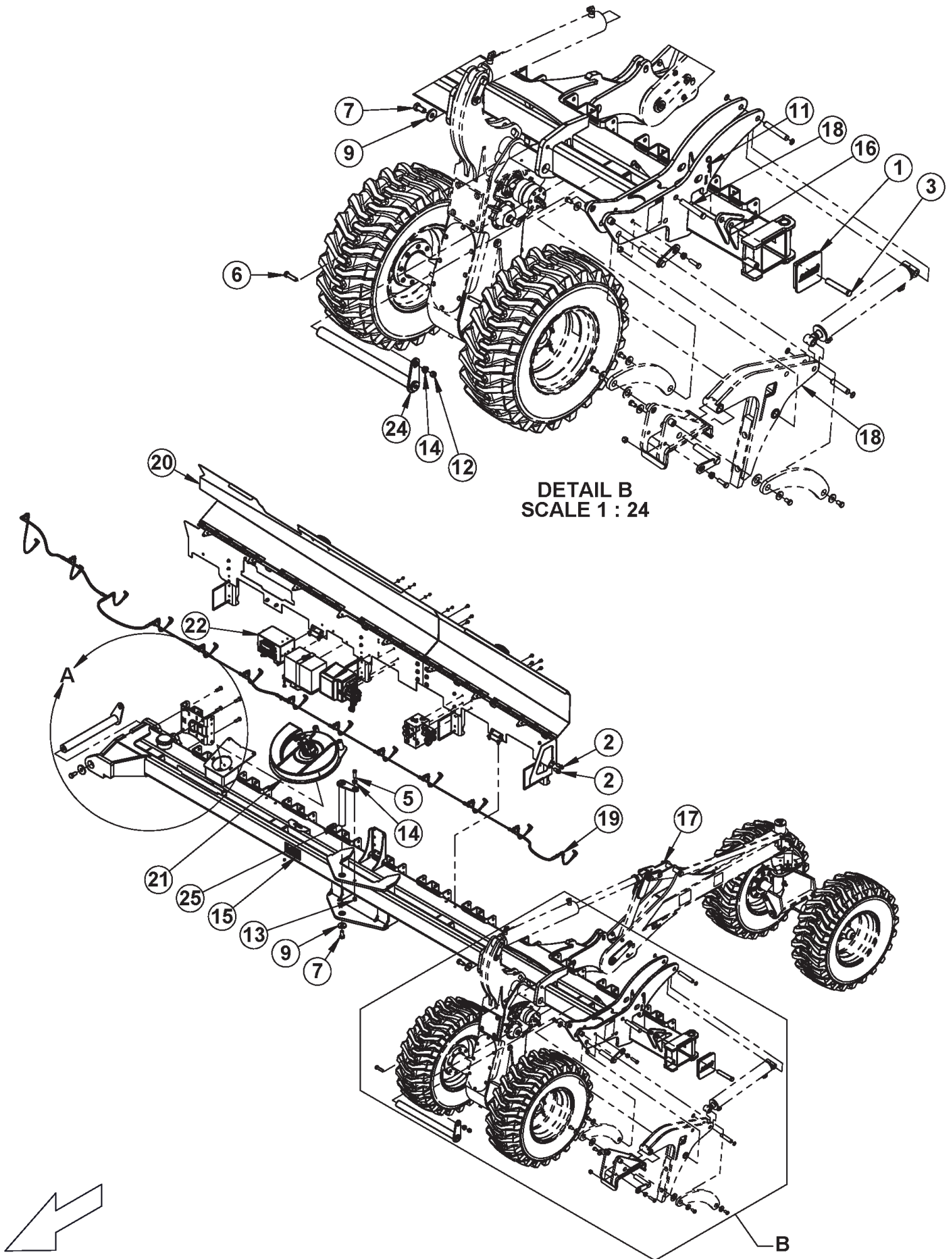
TA02098 Assy, 60' RH SA Shield

ITEM	PART NUMBER	DESCRIPTION	QTY.	TORQUE (ft-lbs)
1	90-44-0410	Decal, Reflector, Yellow-2x9	1	
2	FW-USS-0.250Y	Washer, Flat USS 1/4" YZ	17	
3	FW-USS-0.438Y	Washer, Flat-USS 7/16-YZ	9	
4	HB-0.313-18X0.75Y8	Bolt, Hex Hd 5/16-18x3/4-YZ8	17	
5	HB-0.500-13X1.75Y8	Bolt, Hex Hd 1/2-13x1-3/4 YZ8	8	
6	HB-0.500-13X2.75Y8	Bolt, Hex Hd 1/2-13x2-3/4 YZ8	1	
7	RN-0.313-18-.03-.15Y	Rivnut, 5/16-18 UNC .027-.150	17	
8	RN-0.500-13-.35-.50Y	Rivnut, 1/2-13 .350-.500 GR	9	
9	T0052276	Spacer	2	
10	T0052651	Decal, Yldtrac 24R-30-3.8x48.5	1	
11	T0054100	Decal, Yldtrac 48R15-3.8x47.9	1	
12	T0054235	Decal, Yldtrac 36R20-3.8x47.9	1	
13	T0055624	Cover, RH Stub Arm Shield	1	
14	T0055625	Shield, RH Stub Arm Front	1	
15	T0056180	Panel, 60' Stub Arm Back	1	
16	T0056182	Decal, Danger Row Unit Lift Lock	1	

Note:

1. **T=XXX** = Torque Expressed in ft-lbs (Use standard torque values from drawing T0000000 unless otherwise specified.
2. * Items marked with an asterisk are items that are included in that particular part or assembly.



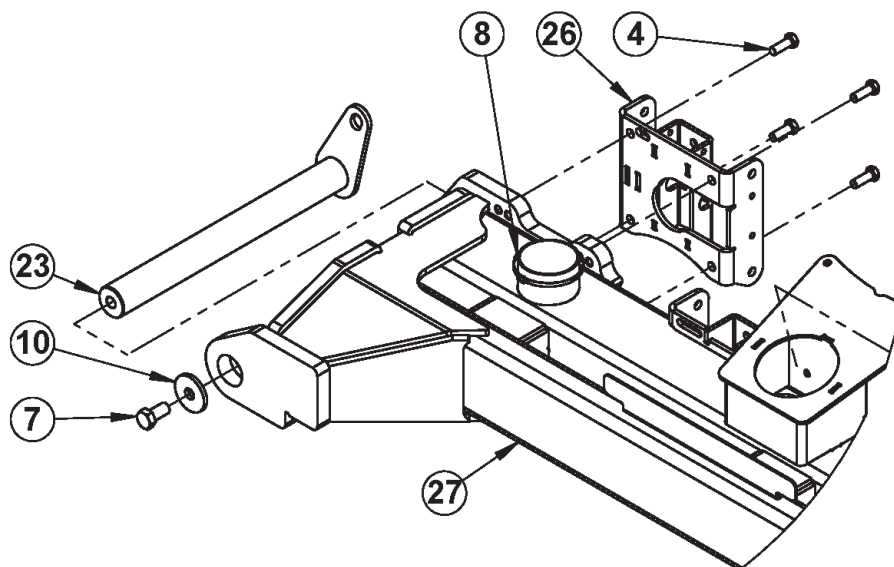


TA02017 Assy, 36R20 LH Wing Base

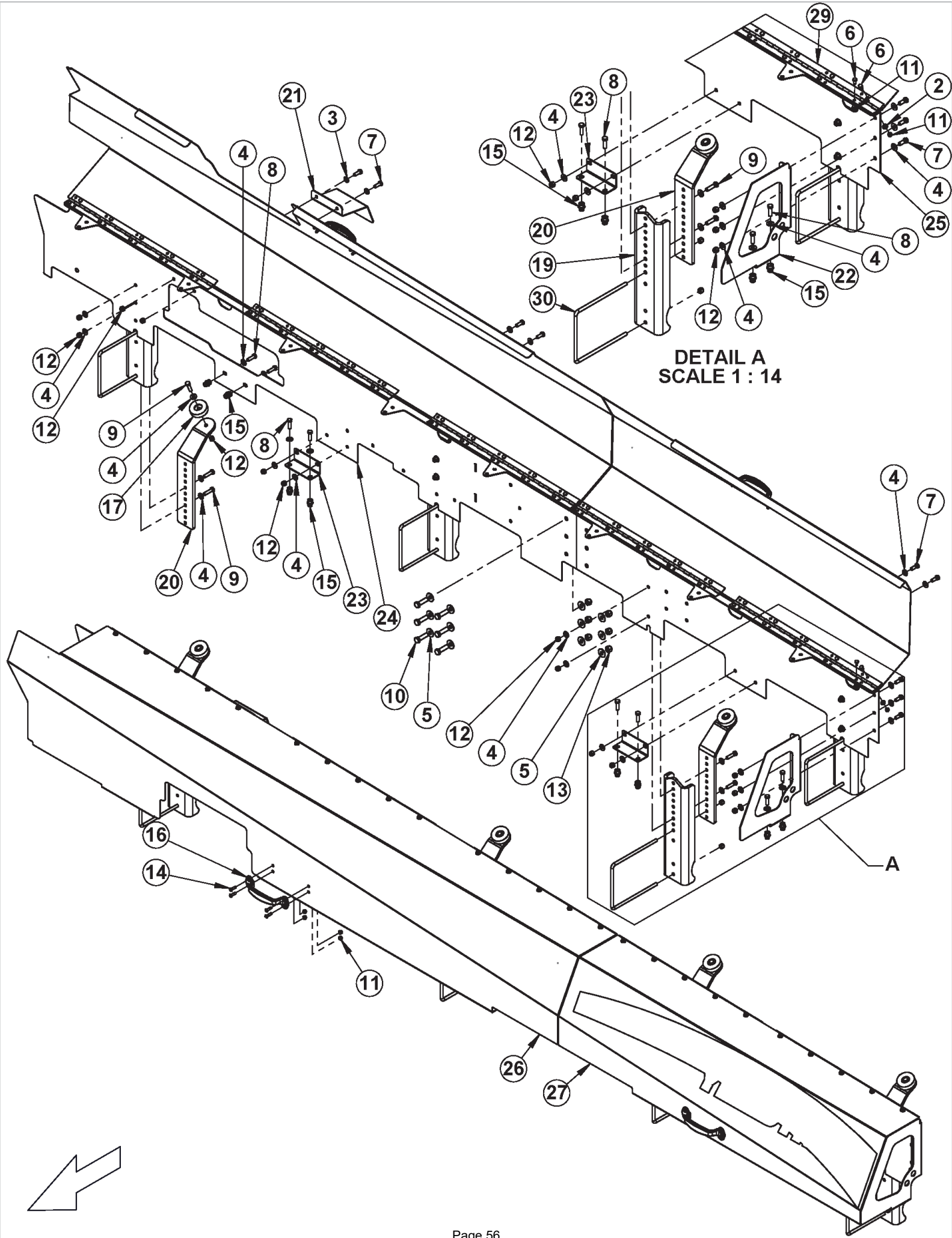
ITEM	PART NUMBER	DESCRIPTION	QTY	TORQUE (ft-lbs)
1	73368118	Cap, Case IH 7x7 Tube	1	
2	AD-08MFS-08MFS-BH	Adapter, 08MFS-08MFS BH	2	
3	CLPIN-1.000X6.00Y	Clevis Pin, 1x6 YZ	1	
4	HB-0.625-11X1.75Y8	Bolt, Hex Hd 5/8-11x1-3/4 YZ8	4	
5	HB-0.625-11X2.25Y8	Bolt, Hex Hd 5/8-11x2-1/4 YZ8	1	
6	HB-0.625-11X2.50Y8	Bolt, Hex Hd 5/8-11x2-1/2 YZ8	1	
7	HB-0.875-9X1.75Y8	Bolt, Hex Hd 7/8-9x1-3/4 YZ8	3	
8	HCLMP-SAE-512SS	Hose Clamp, SAE #512 SS	1	
9	HDWSH-0.89X2.50Y	HD Washer, 5/7/64x2-1/2 YZ	2	
10	HDWSH-0.89X3.00Y	HD Washer, 5/7/64x3 YZ	1	
11	HPINCLIP-1.000Y	Hair Pin Clip, 1 YZ	1	
12	NLNUT-0.625-11Y8	Nylon Lock Nut, 5/8-11 YZ8	1	
13	NLNUT-0.625-18Y8	Nylon Lock Nut, 5/8-18 YZ8	1	
14	T0050854	Anti Rotation Insert	2	
15	T0051588	Decal, Warning - Crush Hazard	1	
16	T0052826	Decal, Notice Trans Lock	1	
17	TA01907	Assy, 20" Dual Wing Wheel	1	
18	TA01923	Assy, LH Wing Lift	1	
19	TA01996	Assy, 36R20 LH RU Lift Hose Routing	1	
20	TA02021	Assy, 36R20 LH Wing Shield	1	
21	TA02023	Assy, Vacuum Fan LH Wing	1	
22	TA02026	Assy, 36R20 PP Components	1	
23	TW000611	Pin Weldment	1	
24	TW000717	Pin Weldment	1	
25	TW000794	Pin Weldment	1	
26	TW001475	Wdmt, RU Bolt-On Head Bracket	1	
27	TW001479	Wdmt, 36R20 LH Wing	1	

Note:

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2. * Items marked with an asterisk are items that are included in that particular part or assembly.



DETAIL A
SCALE 1 : 14

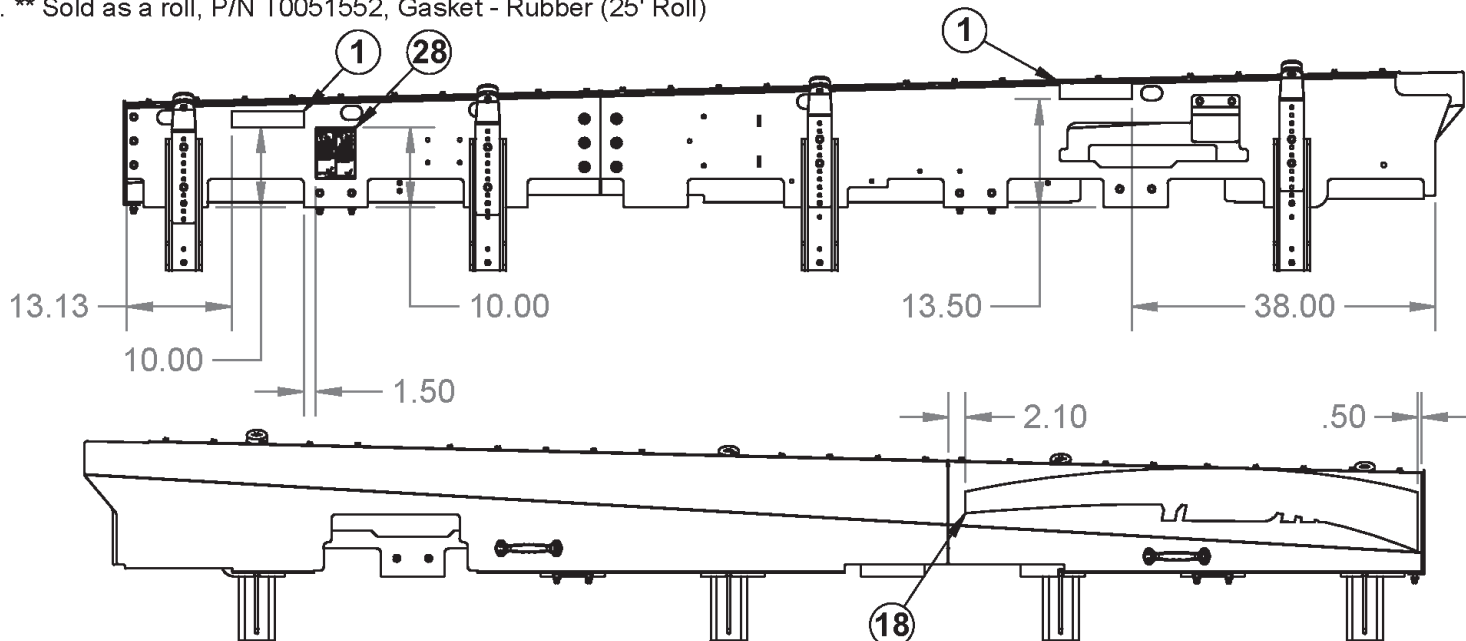


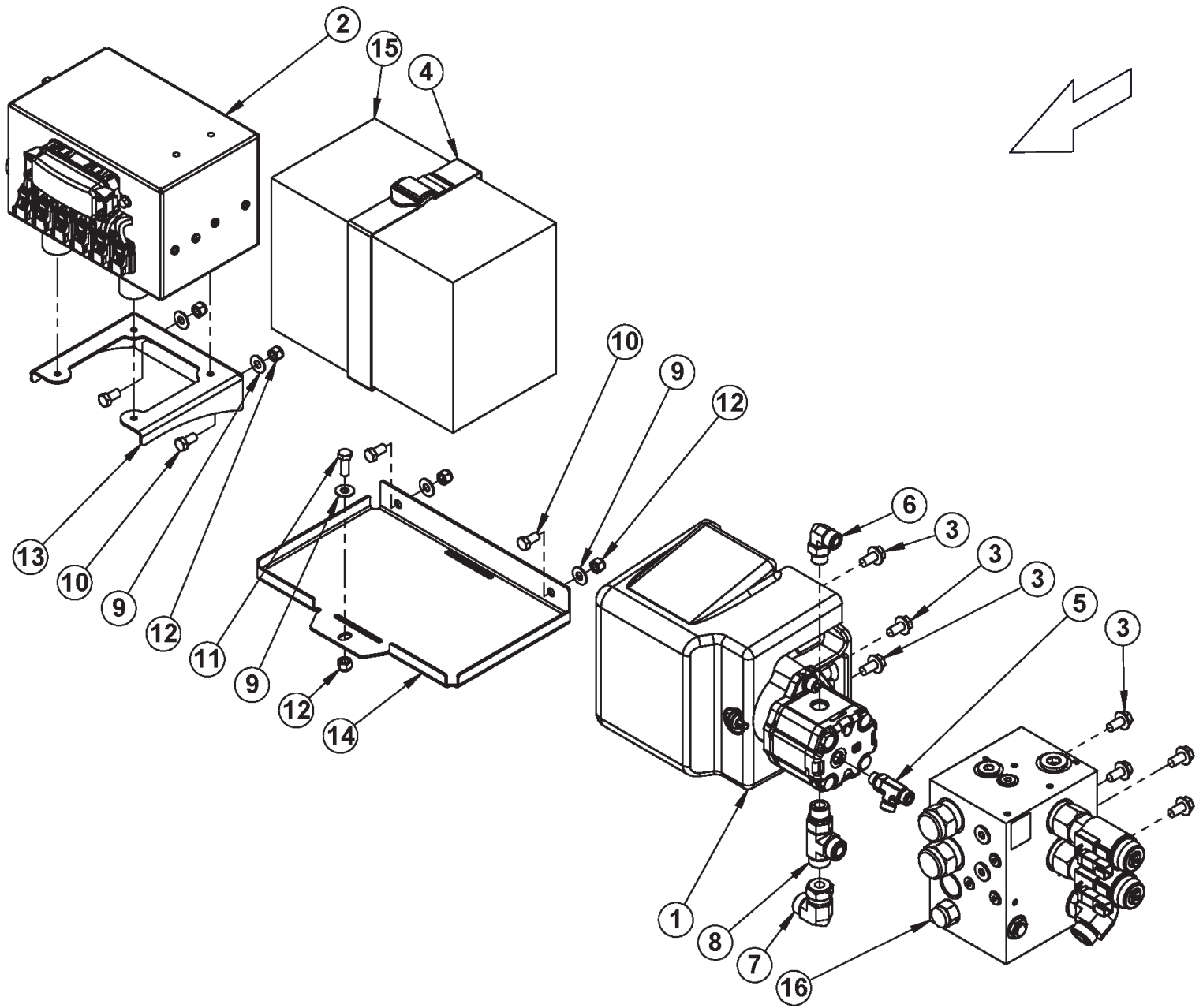
TA02021 Assy, 36R20 LH Wing Shield

ITEM	PART NUMBER	DESCRIPTION	QTY	TORQUE (ft-lbs)
1	90-44-0410	Decal, Reflector, Yellow-2x9	2	
2	FW-SAE-0.250Y	Washer, Flat SAE 1/4 YZ	25	
3	FW-SAE-0.375Y	Washer, Flat SAE 3/8 YZ	2	
4	FW-USS-0.313Y	Washer, Flat USS 5/16 YZ	41	
5	FW-USS-0.438Y	Washer, Flat USS 7/16 YZ	12	
6	HB-0.250-20X0.50Y8	Bolt, Hex Hd 1/4-20x1/2 YZ8	50	
7	HB-0.375-16X1.00Y8	Bolt, Hex Hd 3/8-16x1 YZ8	9	
8	HB-0.375-16X1.25Y8	Bolt, Hex Hd 3/8-16x1-1/4 YZ8	8	
9	HB-0.375-16X1.50Y8	Bolt, Hex Hd 3/8-16x1-1/2 YZ8	12	
10	HB-0.500-13X1.75Y8	Bolt, Hex Hd 1/2-13x1-3/4 YZ8	6	
11	NLNUT-0.250-20Y8	Nylon Lock Nut, 1/4-20 YZ8	58	
12	NLNUT-0.375-16Y8	Nylon Lock Nut, 3/8-16 YZ8	29	
13	NLNUT-0.500-13Y8	Nylon Lock Nut, 1/2-13 YZ8	6	
14	OHPMS-.250-20X1.00SS	Screw, Phillips Oval Hd 1/4-20x1 SS	8	
15	RN-0.375-16-.31-.44-Y	Rivet Nut, 3/8-16x0.31-0.44 YZ	8	
16	T0051467	Handle	2	
17	T0051481	Rubber Stop	4	
18	T0051664	Decal, YieldTrac With Arch LH	1	
19	T0054582	Shield Mount	4	
20	T0054583	Mount, Shield Bumper	4	
21	T0055681	Fan Deflector	1	
22	T0055715	Cap, LH Shield End	1	
23	T0055884	Retainer, Back Panel	2	
24	T0056117	Panel, 36R20 LH Inner Back	1	
25	T0056118	Panel, 36R20 LH Outer Back	1	
26	T0056119	Shield, 36R20 LH Wing Inner	1	
27	T0056120	Shield, 36R20 LH Outer Wing	1	
28	T0056182	Decal, Warning Row Unit Lift Lock	1	
29	TA00851	Piano Hinge	5	
30	UB-0.38X7.0X7.0-SY2	U-Bolt, Square 3/8-16x7x7 YZ2	4	

Note:

1. [T=XXX] = Torque Expressed in ft-lbs (Use standard torque values from drawing T0000000 unless otherwise specified).
2. * Items marked with an asterisk are items that are included in that particular part or assembly.
3. ** Sold as a roll, P/N T0051552, Gasket - Rubber (25' Roll)



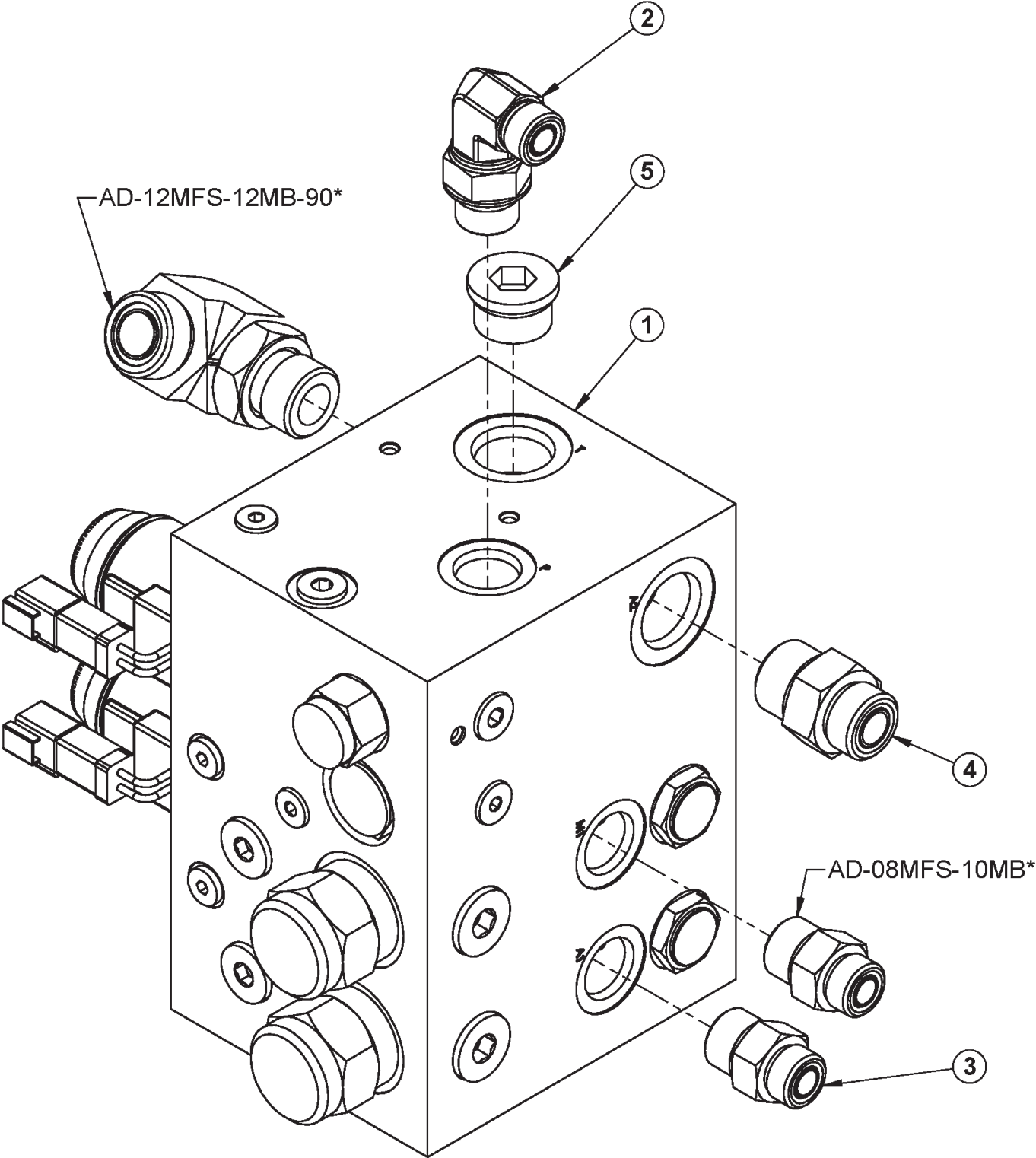


TA02026 Assy, 36R20 PP Components

ITEM	PART NUMBER	DESCRIPTION	QTY	TORQUE (ft-lbs)
1	47687209	Assy, Alternator	1	
2	47714576	Assy, PDM	1	
3	86050286	Bolt, M10x 20mm	7	
4	90-99-0012	Strap, Battery Canvas	1	
5	AD-06MFS-06MB-06MFS	Adapter, 06MFS-06MB-06MFS Tee	1	
6	AD-08MFS-08MB-90	Adapter, 08MFS-08MB 90	1	
7	AD-10MFS-10FST-90	Adapter, 10MFS-10FST 90	1	
8	AD-10MFS-10MB-10MFS	Adapter, 10MFS-10MB-10MFS Tee	1	
9	FW-USS-0.313Y	Washer, Flat USS 5/16 YZ	5	
10	HB-0.375-16X0.75Y8	HBolt-0.3750-16x0.750-YZ8	4	
11	HB-0.375-16X1.00Y8	Bolt, Hex Hd 3/8-16x1 YZ8	1	
12	NLNUT-0.375-16Y8	Nylon Lock Nut, 3/8-16 YZ8	5	
13	T0054215	PDM Mount	1	
14	T0055598	Battery Tray	1	
15	T0055644	Battery, Group 31	1	
16	TA01930	Assy, Fan & Alt Valve	1	

Note:

1. **T=XXX** = Torque Expressed in ft-lbs (Use standard torque values from drawing T0000000 unless otherwise specified.
2. * Items marked with an asterisk are items that are included in that particular part or assembly.

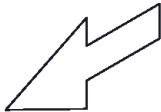
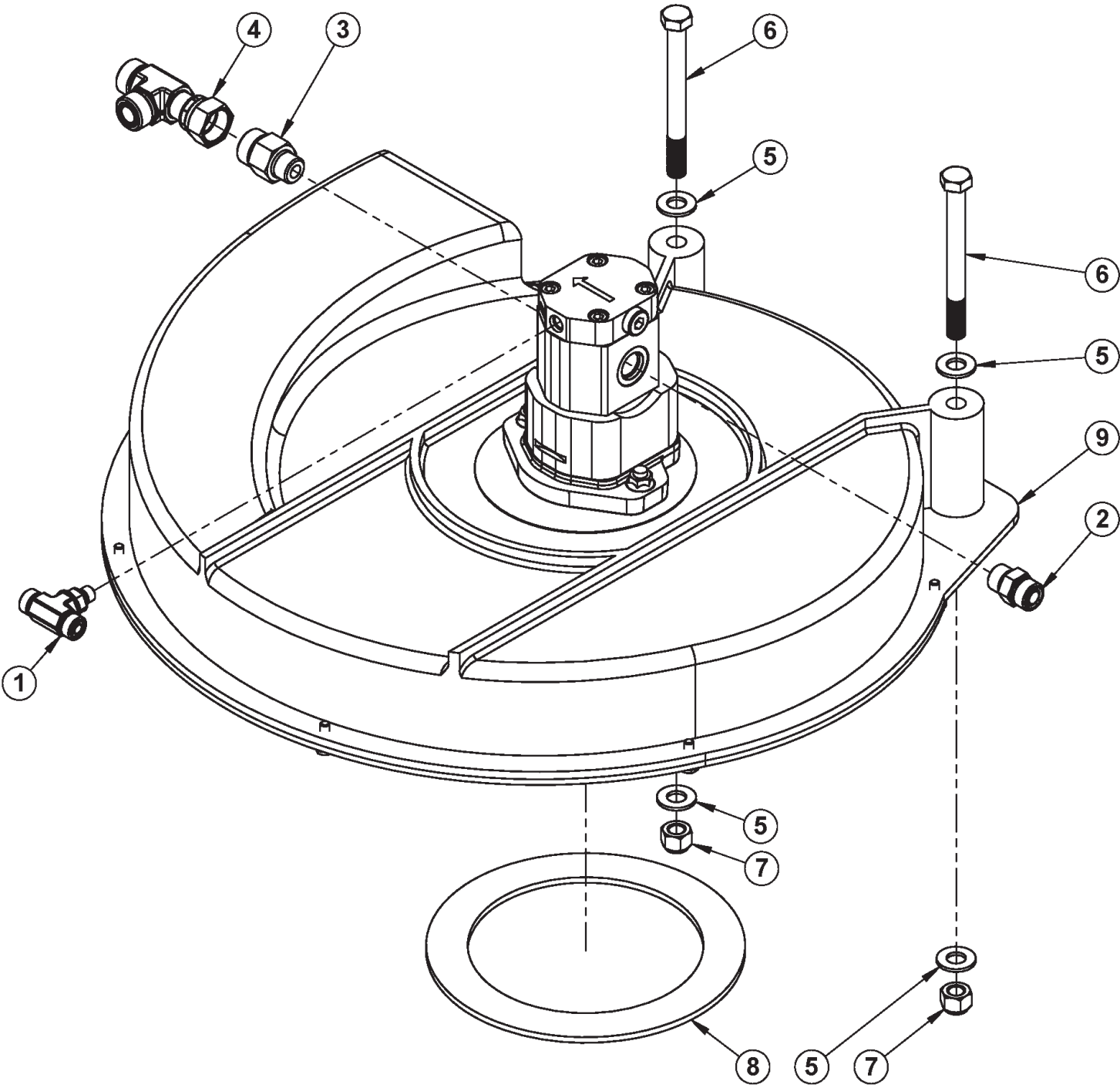


TA01930 Assy, Fan & Alt Valve

ITEM	PART NUMBER	DESCRIPTION	QTY	TORQUE (ft-lbs)
1	47919038	Valve, Fan & Alt Control	1	
2	AD-08MFS-10MB-90	Adapter, 08MFS-10MB 90	1	
3	AD-08MFS-10MB	Adapter, 08MFS-10MB	1	
4	AD-10MFS-12MB	AD-10MFS-12MB	1	
5	HEXPLUG-12MB-HLW	SAE #12 Hollow Hex Plug	1	

Note:

1. **T=XXX** = Torque Expressed in ft-lbs (Use standard torque values from drawing T0000000 unless otherwise specified.
2. * Items marked with an asterisk are items that are included in that particular part or assembly.

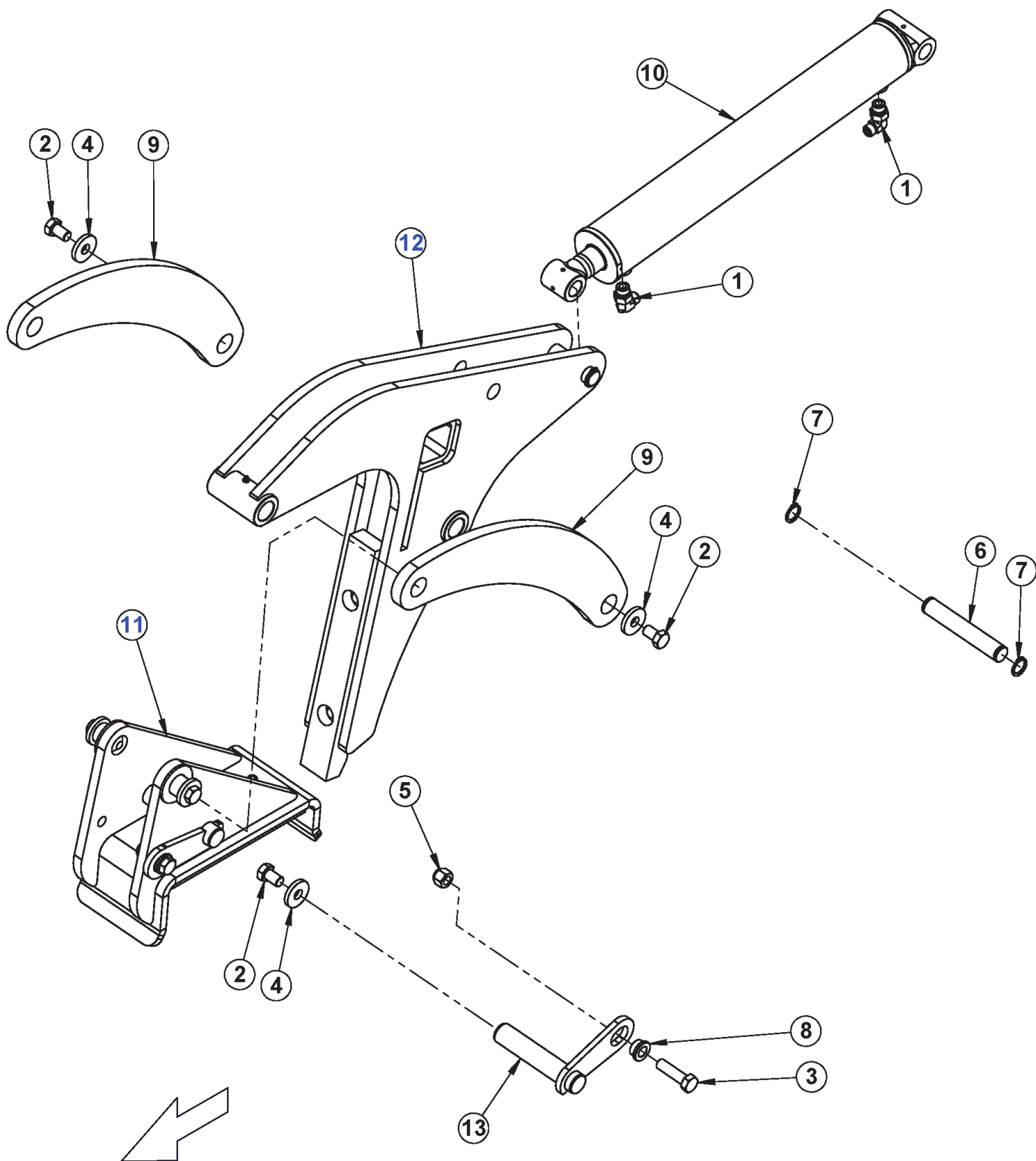


TA02023 Assy, Vacuum Fan LH Wing

ITEM	PART NUMBER	DESCRIPTION	QTY	TORQUE (ft-lbs)
1	AD-06MFS-06MFS-04MB	AD-06MFS-06MFS-04MB	1	
2	AD-08MFS-08MB	AD-08MFS-08MB	1	
3	AD-10MFS-08MB	AD-10MFS-08MB	1	
4	AD-10MFS-10FST-10MFS	AD-10MFS-10FST-10MFS	1	
5	FW-SAE-0.500Y	Washer, Flat SAE - 1/2-YZ	4	
6	HB-0.500-13X5.00Y8	Bolt, Hex Hd 1/2-13x5 YZ8	2	
7	NLNUT-0.500-13Y8	Nut, Nylock 1/2-13 YZ8	2	
8	T0056080	Seal, Vacuum Fan	1	
9	TA01208	Fan, Vacuum w/Motor 6cc	1	

Note:

1. **T=XXX** = Torque Expressed in ft-lbs (Use standard torque values from drawing T0000000 unless otherwise specified.
2. * Items marked with an asterisk are items that are included in that particular part or assembly.

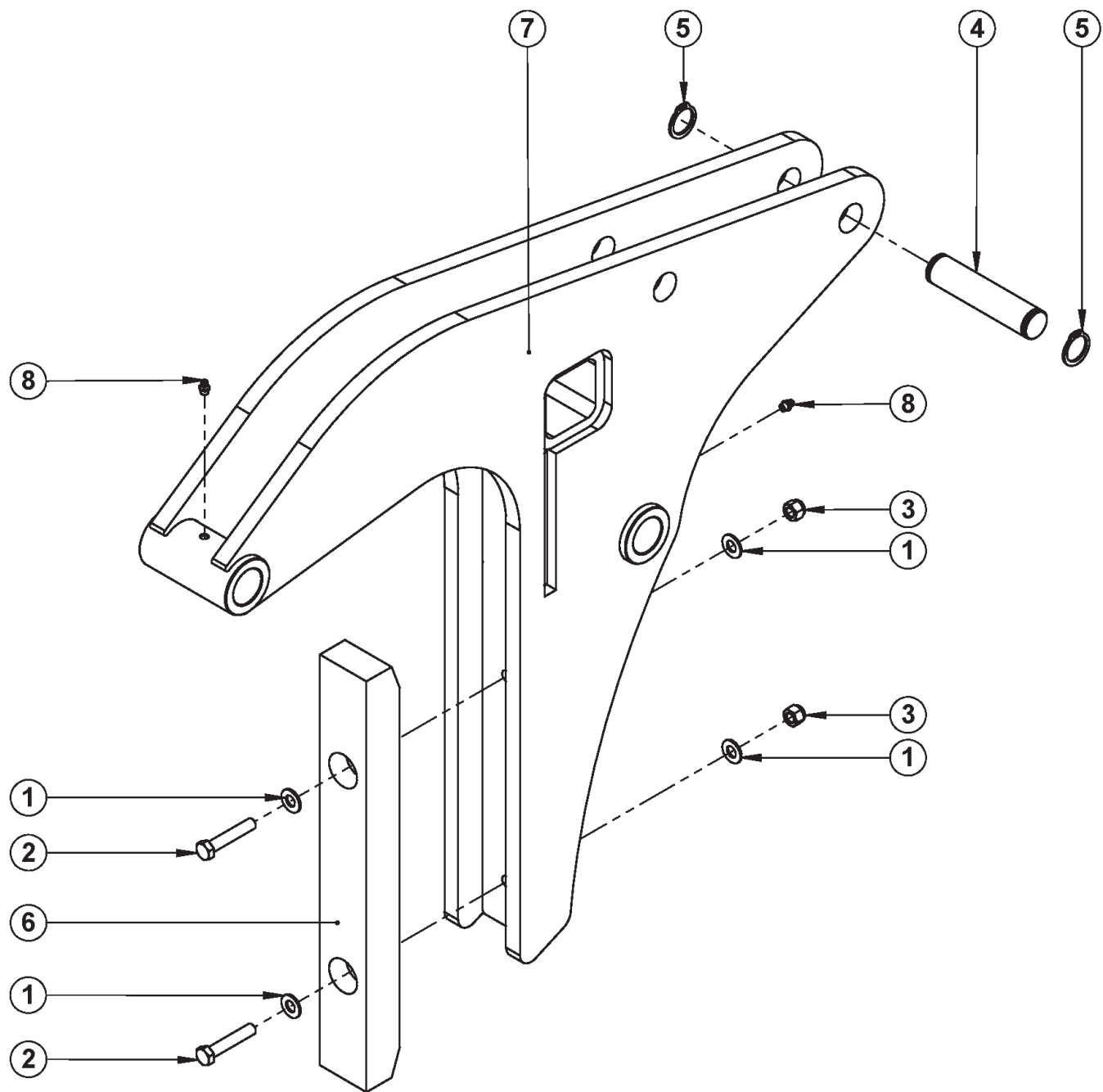


TA01923 Assy, LH Wing Lift

ITEM	PART NUMBER	DESCRIPTION	QTY.	TORQUE (ft-lbs)
1	AD-06MFS-08MB-90	Adapter, 06MFS-08MB 90	2	
2	HB-0.625-11X1.00Y8	Bolt, Hex Hd 5/8-11x1 YZ8	3	
3	HB-0.625-11X2.25Y8	Bolt, Hex Hd 5/8-11x2-1/4 YZ8	1	
4	HDWSH-0.64X1.75Y	HD Washer 41/64x1-3/4 YZ	3	
5	NLNUT-0.625-11Y8	Nylon Lock Nut, 5/8-11 YZ8	1	
6	PIN-1.000X5.75Y	Pin, 1x5-3/4 YZ	1	
7	SRING-EXT-HD-1.00Y	Retaining Ring, External 1 HD YZ	2	
8	T0050854	Anti Rotation Insert	1	
9	T0055674	Linkage, Wing Lift	2	
10	TA00963	Cylinder, Hyd 3.00X20.00	1	
11	TA00979	Assy, Wing Engagement	1	
12	TA00980	Wing Lift Assy	1	
13	TW000906	Pin Weldment	1	

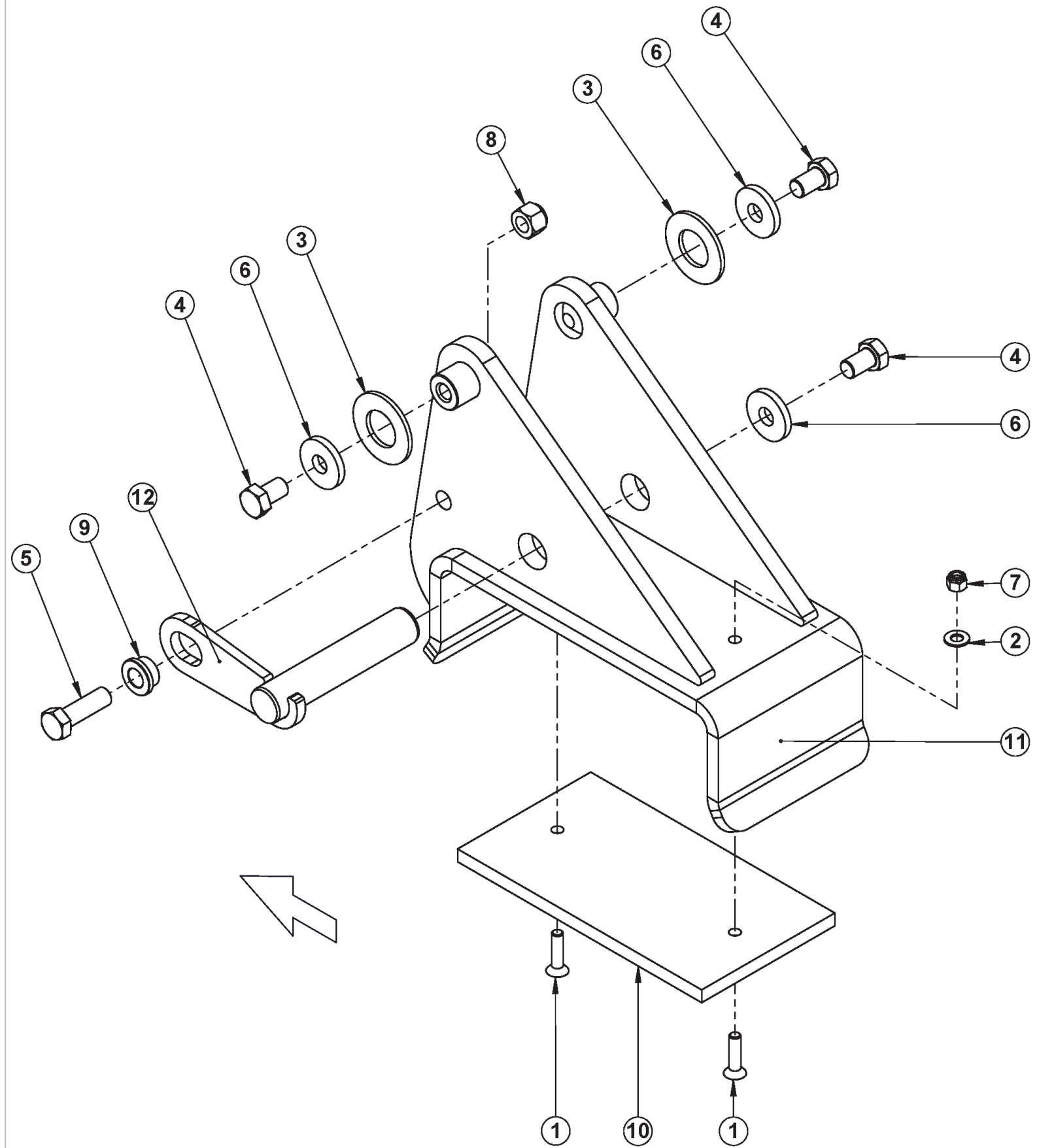
Note:

1. [T=XXX] = Torque Expressed in ft-lbs (Use standard torque values from drawing T0000000 unless otherwise specified.
2. * Items marked with an asterisk are items that are included in that particular part or assembly.



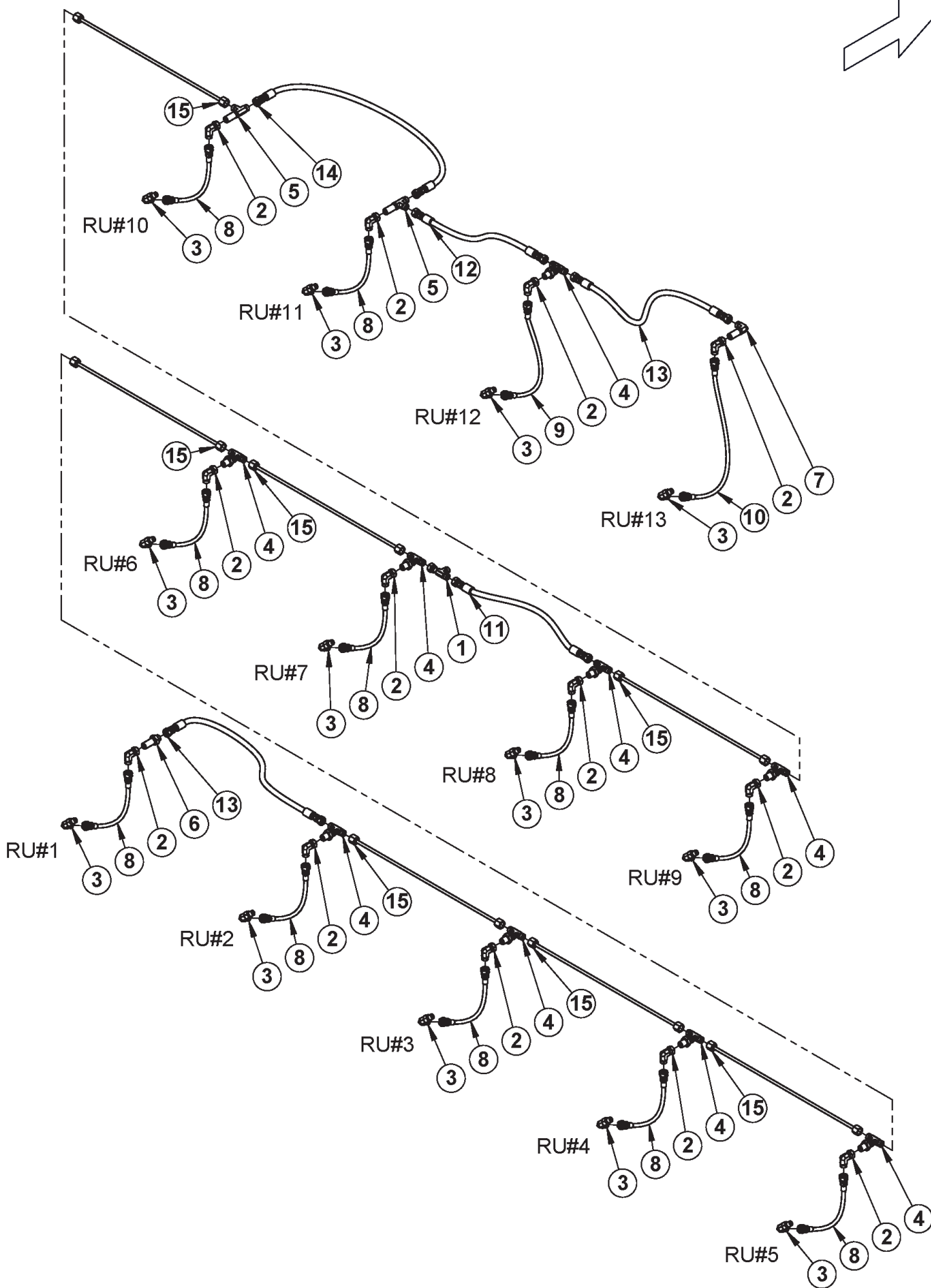
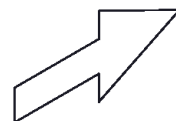
TA00980 Wing Lift Assy

ITEM	PART NUMBER	DESCRIPTION	QTY	TORQUE (ft-lbs)
1	FW-SAE-0.375Y	Washer, Flat SAE 3/8" YZ	4	
2	HB-0.375-16X2.00Y8	Bolt, Hex Hd 3/8-16x2-YZ8	2	
3	NLNUT-0.375-16Y8	Nut, Nylock 3/8-16 YZ8	2	
4	PIN-1.000X4.13Y	PIN-1.000X4.13Y	1	
5	SRING-EXT-HD-1.00Y	SRING-EXT-HD-1.00Y	2	
6	T0052755	Lift Pad	1	
7	TW000901	Wldmt, Wing Lift	1	
8	ZERK-0.250-28	Zerk, 1/4-28	2	



TA00979 Assy, Wing Engagement

ITEM	PART NUMBER	DESCRIPTION	QTY	TORQUE (ft-lbs)
1	FHSCS-0.375-16X1.50Y8	FHCS 3/8-16x1-1/2-YZ	2	
2	FW-SAE-0.375Y	Washer, Flat SAE 3/8" YZ	2	
3	FW-SAE-1.250Y	Washer, Flat-SAE-1-1/4-YZ	2	
4	HB-0.625-11X1.00Y8	Bolt, Hex Hd 5/8-11x1 YZ8	3	
5	HB-0.625-11X2.00Y8	Bolt, Hex Head-5/8-11x2-YZ8	1	
6	HDWSH-0.64X1.75Y	HD Washer 0.64 x 1.75	3	
7	NLNUT-0.375-16Y8	Nut, Nylock 3/8-16 YZ8	2	
8	NLNUT-0.625-11Y8	Nut, Nylock-5/8-11-YZ8	1	
9	T0050854	Anti Rotation Insert	1	
10	T0053191	Pad, Wing Lift	1	
11	TW000900	Wldmt, Wing Engagement	1	
12	TW000906	Pin Weldment	1	

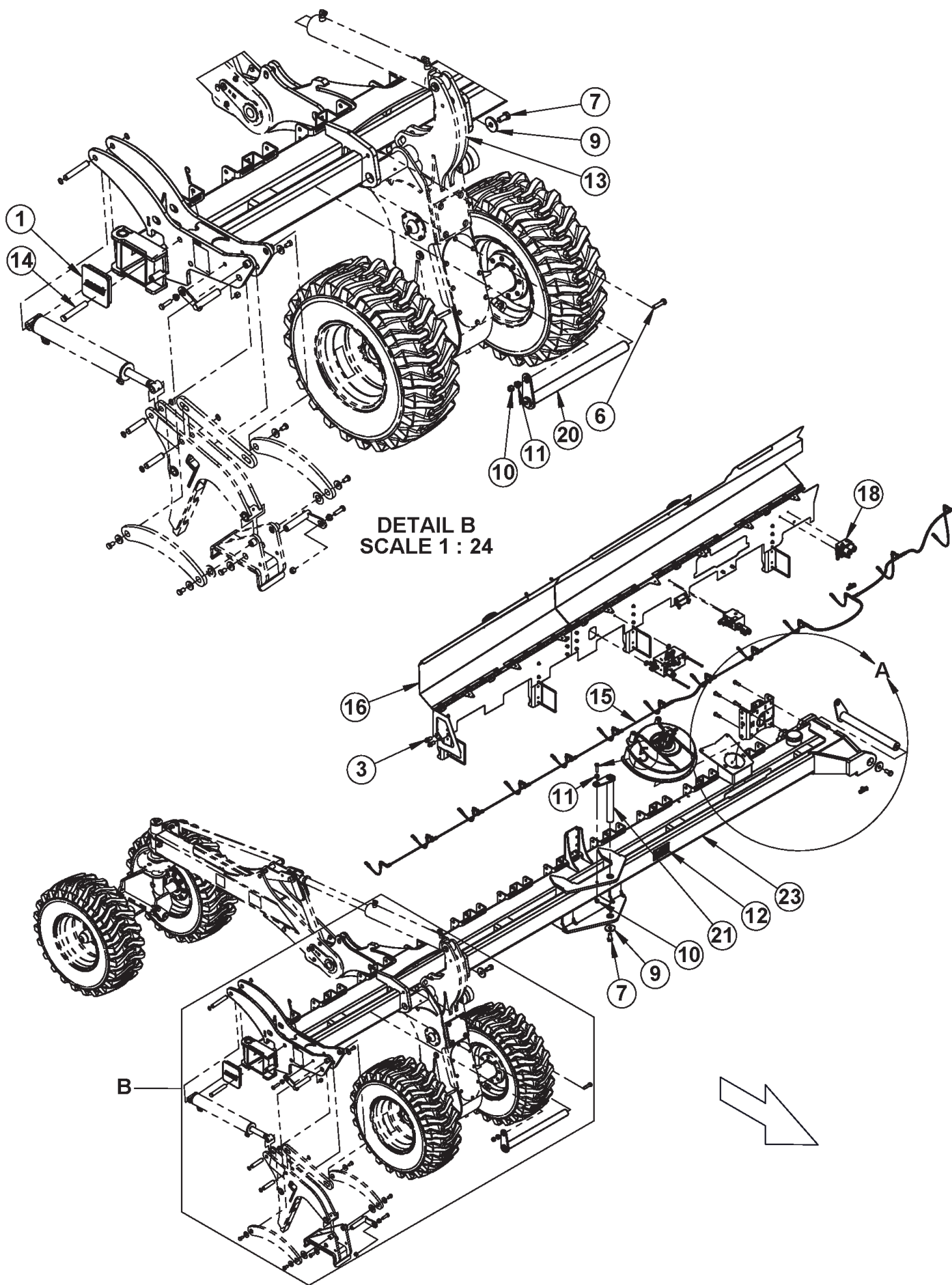


TA01996 Assy, 36R20 LH RU Lift Hose Routing

ITEM	PART NUMBER	DESCRIPTION	QTY	TORQUE (ft-lbs)
1	AD-04MFS-04FST-04MFS	Adapter, 04MFS-04FST-04MFS Tee	1	
2	AD-04MFS-04FST-90	Adapter, 04MFS-04FST 90	13	
3	AD-04MFS-04MB-90	Adapter, 04MFS-04MB 90	13	
4	AD-04MFS-04MFS-04MFS-BH	Adapter, 04MFS-04MFS-04MFS BH Tee	9	
5	AD-04MFS-04MFS-04MFS-BHR	Adapter, 04MFS-04MFS-04MFS BH Run	2	
6	AD-04MFS-04MFS-BH	Adapter, 04MFS-04MFS BH	1	
7	AD-04MFS-04MFS-BH90	Adapter, 04MFS-04MFS BH 90	1	
8	HS02-009-04FS-04FS	Hose 0.125-009-04FS-04FS	11	
9	HS02-013-04FS-04FS	Hose 0.125-013-04FS-04FS	1	
10	HS02-019-04FS-04FS	Hose 0.125-019-04FS-04FS	1	
11	HS04-017-04FS-04FS-A	Hose 0.250-017-04FS-04FS-A	1	
12	HS04-018-04FS-04FS-A	Hose 0.250-018-04FS-04FS-A	1	
13	HS04-023-04FS-04FS-A	Hose 0.250-023-04FS-04FS-A	2	
14	HS04-028-04FS-04FS-A	Hose 0.250-028-04FS-04FS-A	1	
15	T0056084	Tube Assy, Row Lift 20" Spacing	7	

Note:

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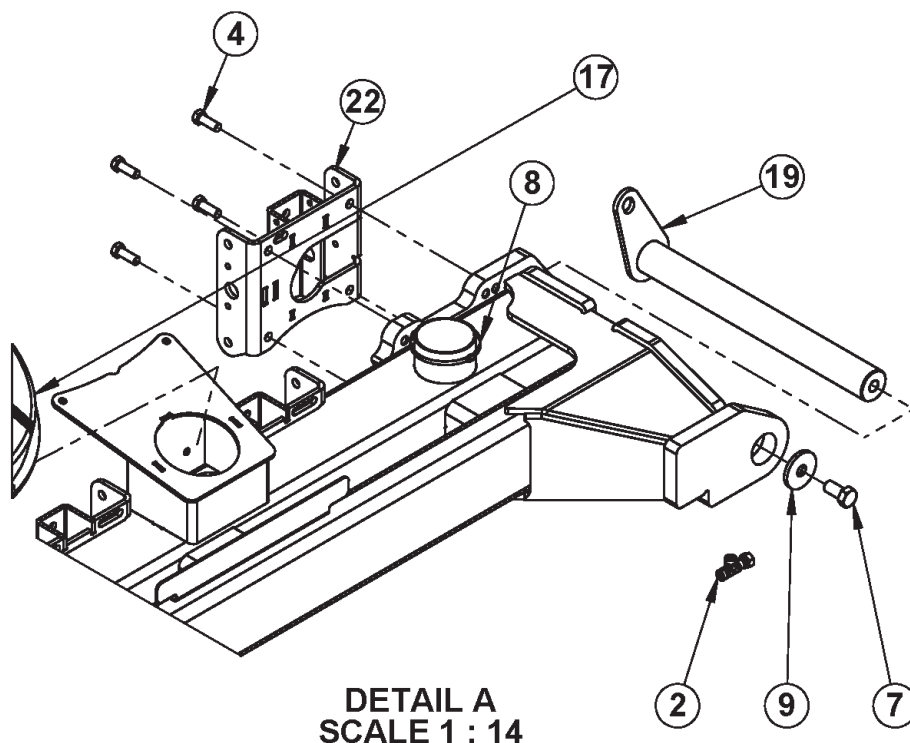


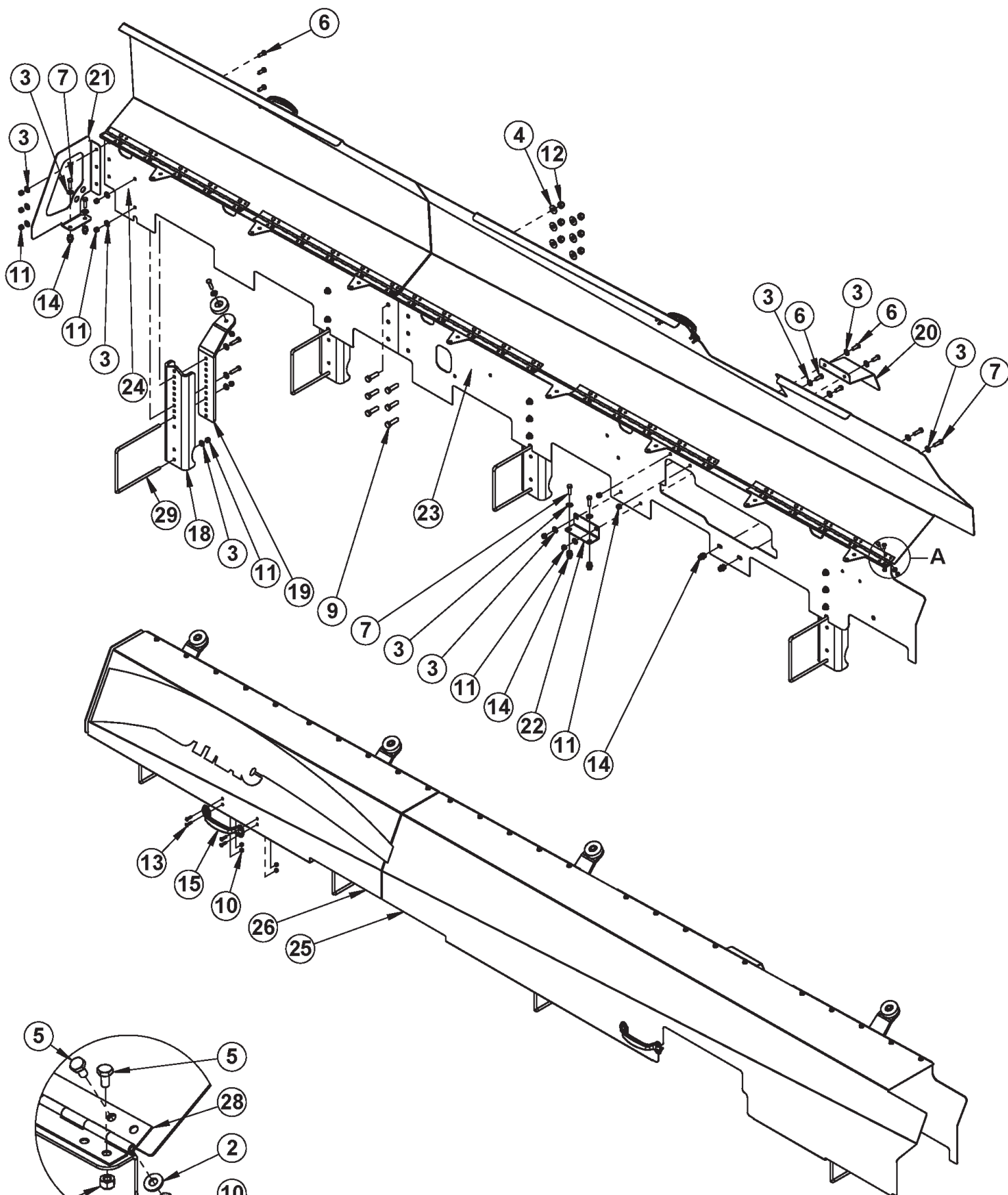
TA02018 Assy, 36R20 RH Wing Base

ITEM	PART NUMBER	DESCRIPTION	QTY	TORQUE (ft-lbs)
1	73368118	Cap, Case IH 7x7 Tube	1	
2	AD-08MFS-08FST-08MFS	Adapter, 08MFS-08FST-08MFS Tee	1	
3	AD-08MFS-08MFS-BH	Adapter, 08MFS-08MFS BH	2	
4	HB-0.625-11X1.75Y8	Bolt, Hex Hd 5/8-11x1-3/4 YZ8	4	
5	HB-0.625-11X2.25Y8	Bolt, Hex Hd 5/8-11x2-1/4 YZ8	1	
6	HB-0.625-11X2.50Y8	Bolt, Hex Hd 5/8-11x2-1/2 YZ8	1	
7	HB-0.875-9X1.75Y8	Bolt, Hex Hd 7/8-9x1-3/4 YZ8	3	
8	HCLMP-SAE-512SS	Hose Clamp, SAE #512 SS	1	
9	HDWSH-0.89X3.00Y	HD Washer, 5/764x3 YZ	3	
10	NLNUT-0.625-11Y8	Nylon Lock Nut, 5/8-11 YZ8	2	
11	T0050854	Anti Rotation Insert	2	
12	T0051588	Decal, Warning - Crush Hazard	1	
13	TA01907	Assy, 20" Dual Wing Wheel	1	
14	TA01924	Assy, RH Wing Lift	1	
15	TA01997	Assy, 36R20 RH RU Lift Hose Routing	1	
16	TA02022	Assy, 36R20 RH Wing Shield	1	
17	TA02024	Assy, Vacuum Fan RH Wing	1	
18	TA02088	Assy, 36R20 RH Wing Hyd. valves	1	
19	TW000611	Pin Weldment	1	
20	TW000717	Pin Weldment	1	
21	TW000794	Pin Weldment	1	
22	TW001475	Wdmt, RU Bolt-On Head Bracket	1	
23	TW001480	Wdmt, 36R20 RH Wing	1	

Note:

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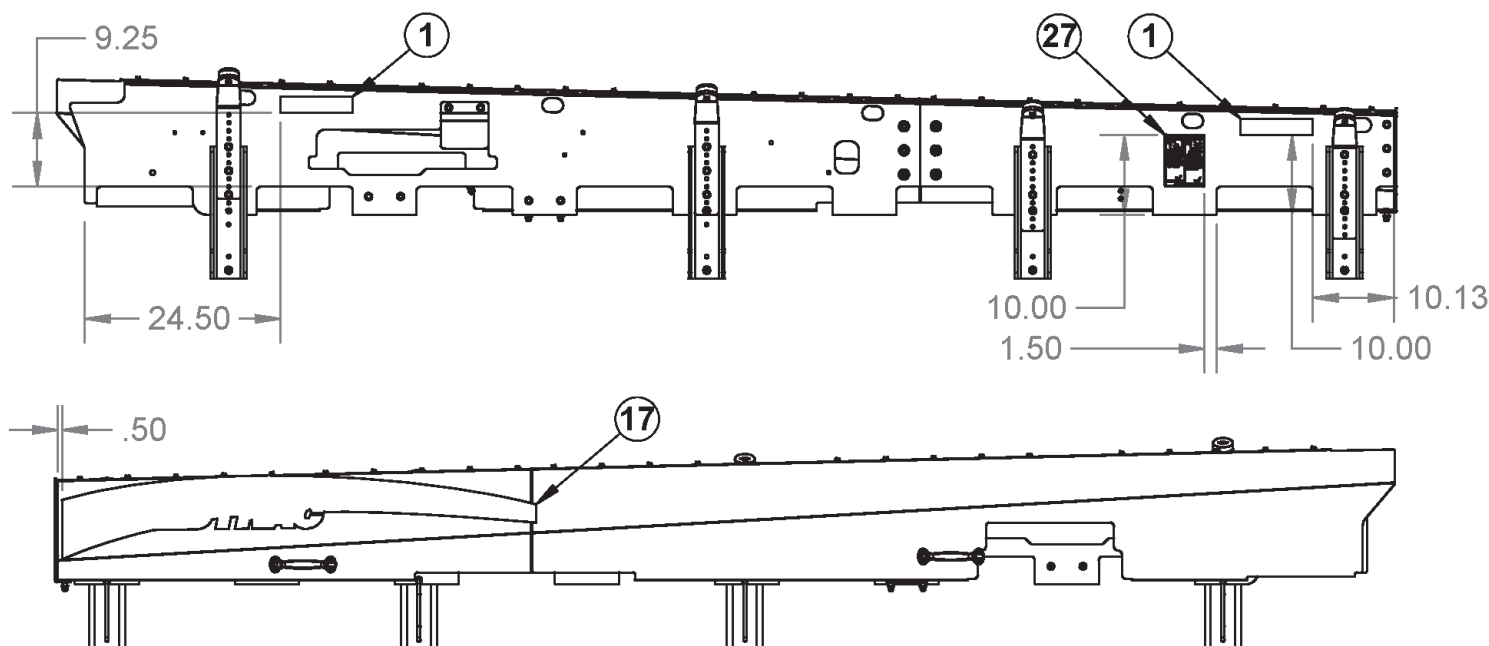
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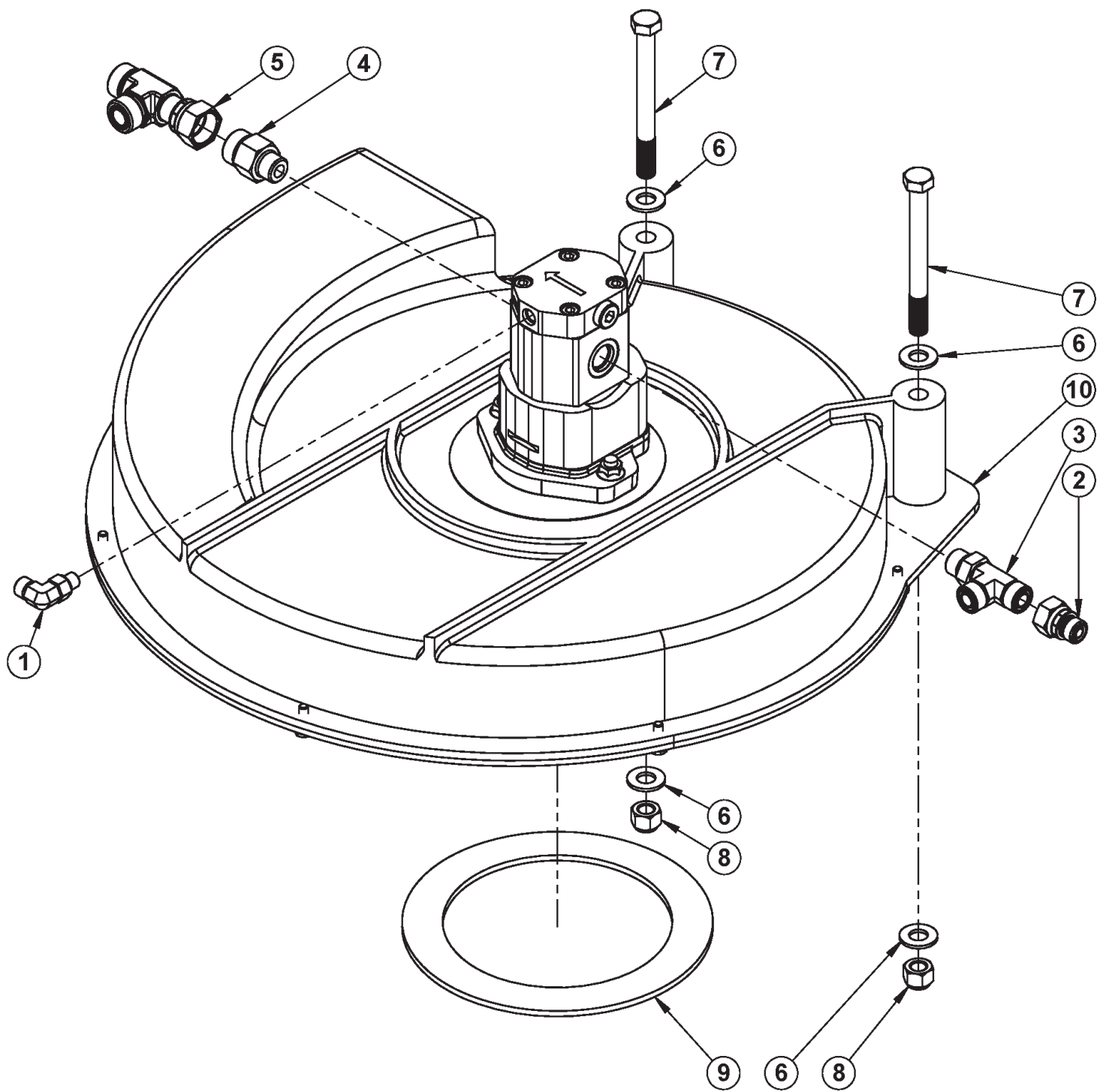
TA02022 Assy, 36R20 RH Wing Shield

ITEM	PART NUMBER	DESCRIPTION	QTY	TORQUE (ft-lbs)
1	90-44-0410	Decal, Reflector, Yellow-2x9	2	
2	FW-SAE-0.250Y	Washer, Flat SAE 1/4 YZ	25	
3	FW-USS-0.313Y	Washer, Flat USS 5/16 YZ	49	
4	FW-USS-0.438Y	Washer, Flat USS 7/16 YZ	6	
5	HB-0.250-20X0.50Y8	Bolt, Hex Hd 1/4-20x1/2 YZ8	50	
6	HB-0.375-16X1.00Y8	Bolt, Hex Hd 3/8-16x1 YZ8	7	
7	HB-0.375-16X1.25Y8	Bolt, Hex Hd 3/8-16x1-1/4 YZ8	6	
8	HB-0.375-16X1.50Y8	Bolt, Hex Hd 3/8-16x1-1/2 YZ8	14	
9	HB-0.500-13X1.75Y8	Bolt, Hex Hd 1/2-13x1-3/4 YZ8	6	
10	NLNUT-0.250-20Y8	Nylon Lock Nut, 1/4-20 YZ8	58	
11	NLNUT-0.375-16Y8	Nylon Lock Nut, 3/8-16 YZ8	29	
12	NLNUT-0.500-13Y8	Nylon Lock Nut, 1/2-13 YZ8	6	
13	OHPMS-.250-20X1.00SS	Screw, Phillips Oval Hd 1/4-20x1 SS	8	
14	RN-0.375-16-.31-.44-Y	Rivet Nut, 3/8-16x0.31-0.44 YZ	6	
15	T0051467	Handle	2	
16	T0051481	Rubber Stop	4	
17	T0051663	Decal, YieldTrac With Arch RH	1	
18	T0054582	Shield Mount	4	
19	T0054583	Mount, Shield Bumper	4	
20	T0055681	Fan Deflector	1	
21	T0055716	Cap, RH Shield End	1	
22	T0055884	Retainer, Back Panel	1	
23	T0056122	Panel, 36R20 RH Inner Back	1	
24	T0056123	Panel, 36R20 RH Outer Back	1	
25	T0056124	Shield, 36R20 RH Inner Wing	1	
26	T0056125	Shield, 36R20 RH Outer Wing	1	
27	T0056182	Decal, Warning Row Unit Lift Lock	1	
28	TA00851	Piano Hinge	5	
29	UB-0.38X7.0X7.0-SY2	U-Bolt, Square 3/8-16x7x7 YZ2	4	

Note:

1. [T=XXX] = Torque Expressed in ft-lbs (Use standard torque values from drawing T0000000 unless otherwise specified).
2. * Items marked with an asterisk are items that are included in that particular part or assembly.



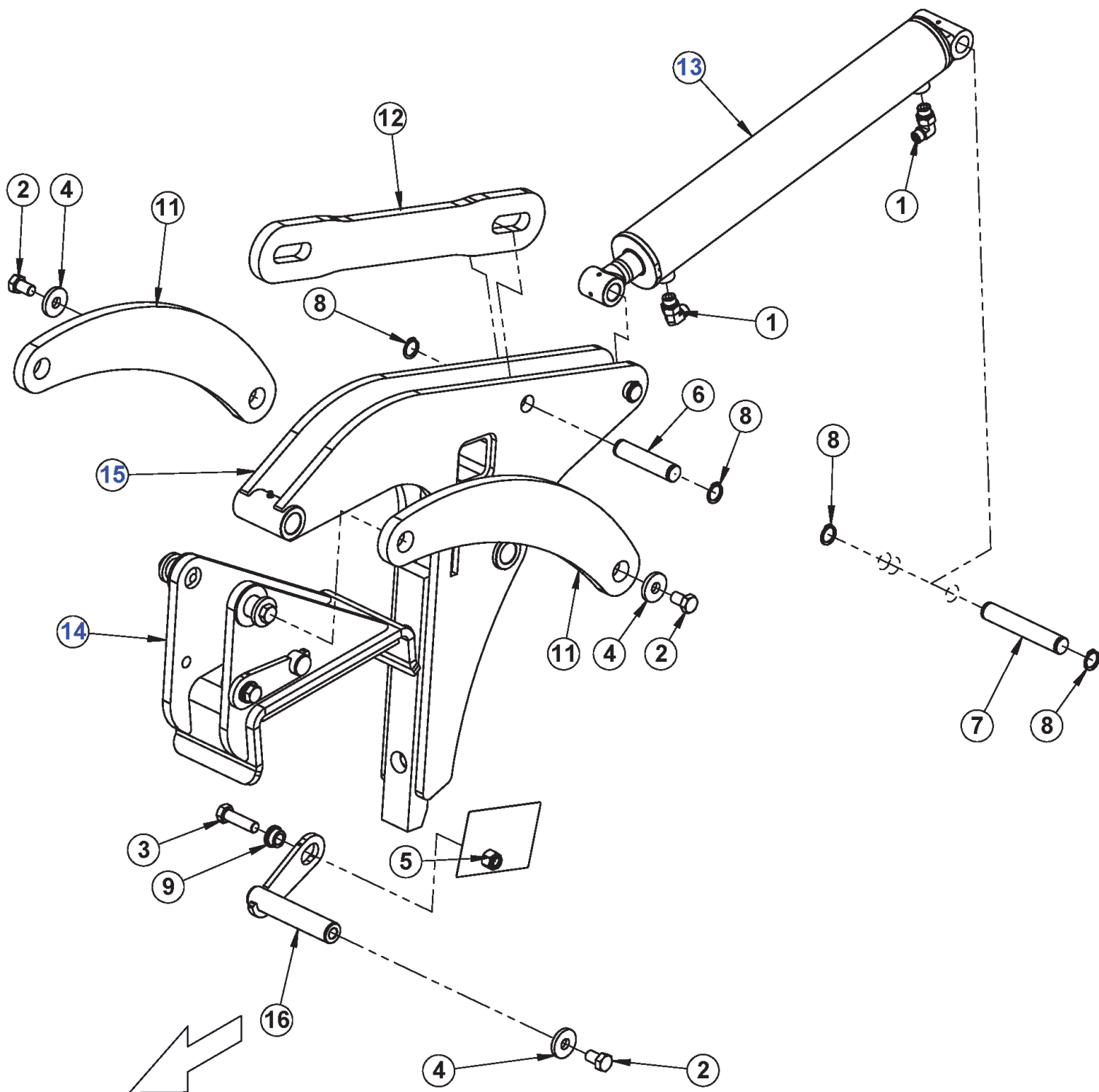


TA02024 Assy, Vacuum Fan RH Wing

ITEM	PART NUMBER	DESCRIPTION	QTY	TORQUE (ft-lbs)
1	AD-04MFS-04MB-90	AD-04MFS-04MB-90	1	
2	AD-06MFS-08FST	AD-06MFS-08FST	1	
3	AD-08MFS-08MB-08MFS	AD-08MFS-08MB-08MFS	1	
4	AD-10MFS-08MB	AD-10MFS-08MB	1	
5	AD-10MFS-10FST-10MFS	AD-10MFS-10FST-10MFS	1	
6	FW-SAE-0.500Y	Washer, Flat SAE - 1/2-YZ	4	
7	HB-0.500-13X5.00Y8	Bolt, Hex Hd 1/2-13x5 YZ8	2	
8	NLNUT-0.500-13Y8	Nut, Nylock 1/2-13 YZ8	2	
9	T0056080	Seal, Vacuum Fan	1	
10	TA01208	Fan, Vacuum w/Motor 6cc	1	

Note:

1. **T=XXX** = Torque Expressed in ft-lbs (Use standard torque values from drawing T0000000 unless otherwise specified.
2. * Items marked with an asterisk are items that are included in that particular part or assembly.

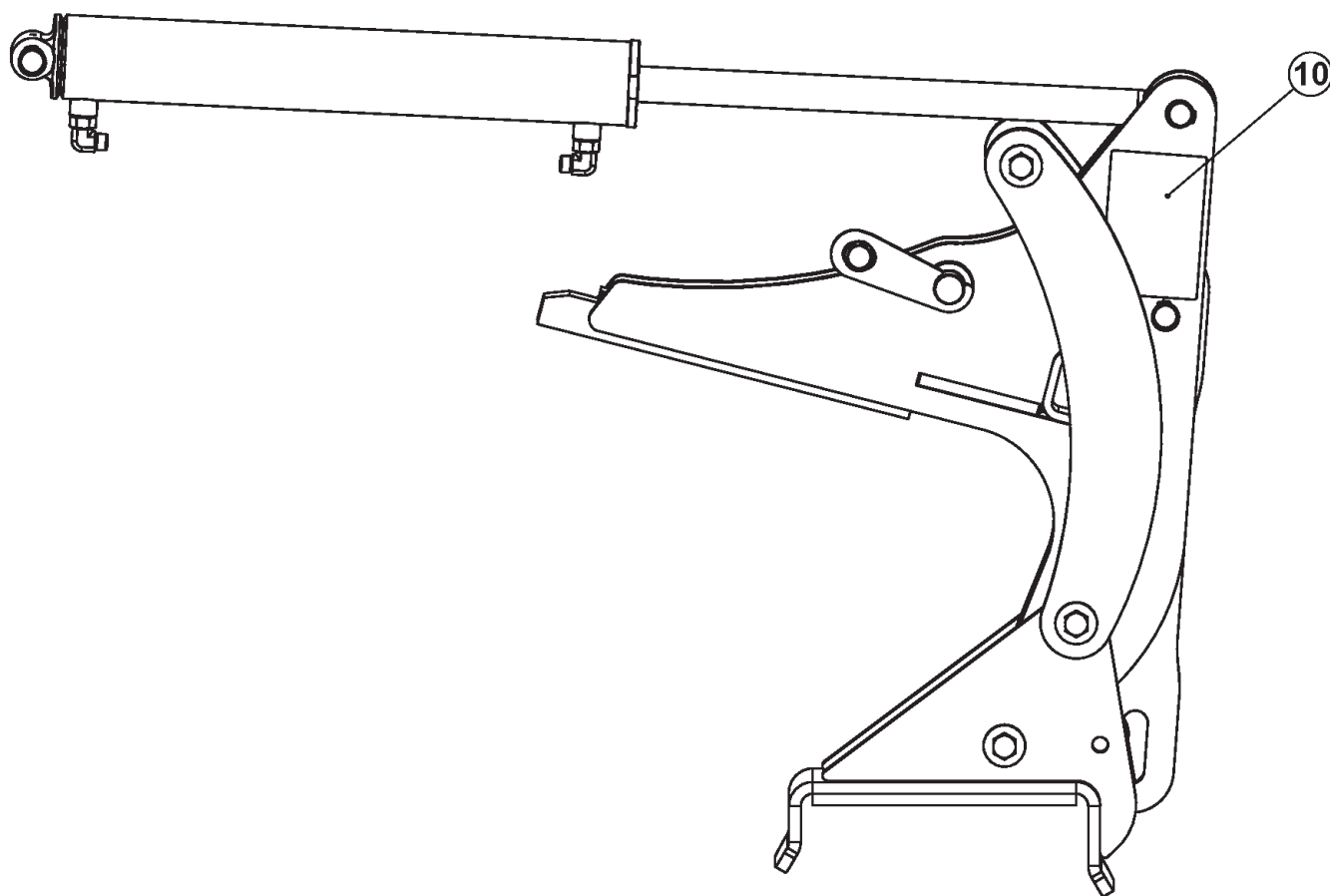


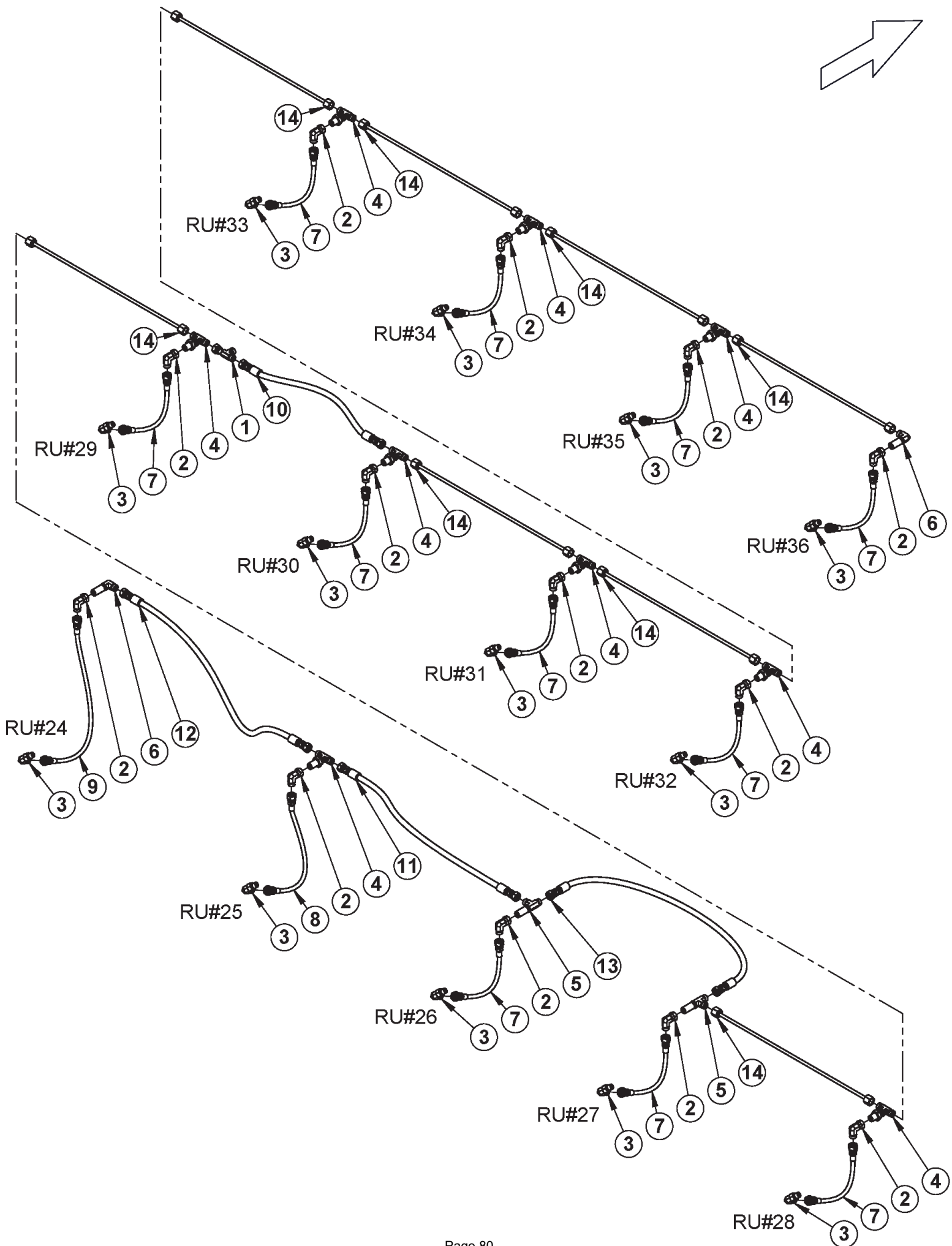
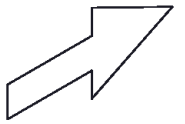
TA01924 Assy, RH Wing Lift

ITEM	PART NUMBER	DESCRIPTION	QTY.	TORQUE (ft-lbs)
1	AD-06MFS-08MB-90	Adapter, 06MFS-08MB 90	2	
2	HB-0.625-11X1.00Y8	Bolt, Hex Hd 5/8-11x1 YZ8	3	
3	HB-0.625-11X2.25Y8	Bolt, Hex Hd 5/8-11x2-1/4 YZ8	1	
4	HDWSH-0.64X1.75Y	HD Washer 41/64x1-3/4 YZ	3	
5	NLNUT-0.625-11Y8	Nylon Lock Nut, 5/8-11 YZ8	1	
6	PIN-1.000X4.13Y	Pin, 1x4-1/8 YZ	1	
7	PIN-1.000X5.75Y	Pin, 1x5-3/4 YZ	1	
8	SRING-EXT-HD-1.00Y	Retaining Ring, External 1 HD YZ	4	
9	T0050854	Anti Rotation Insert	1	
10	T0052802	Decal, Warn-Crush Haz Lift Cyl	1	
11	T0055674	Linkage, Wing Lift	2	
12	T0056238	Linkage, Transport Lock 48R15	1	
13	TA00963	Cylinder, Hyd 3.00X20.00	1	
14	TA00979	Assy, Wing Engagement	1	
15	TA00980	Wing Lift Assy	1	
16	TW000906	Pin Weldment	1	

Note:

1. [T=XXX] = Torque Expressed in ft-lbs (Use standard torque values from drawing T0000000 unless otherwise specified.
2. * Items marked with an asterisk are items that are included in that particular part or assembly.



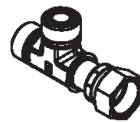
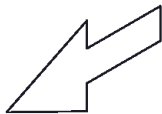
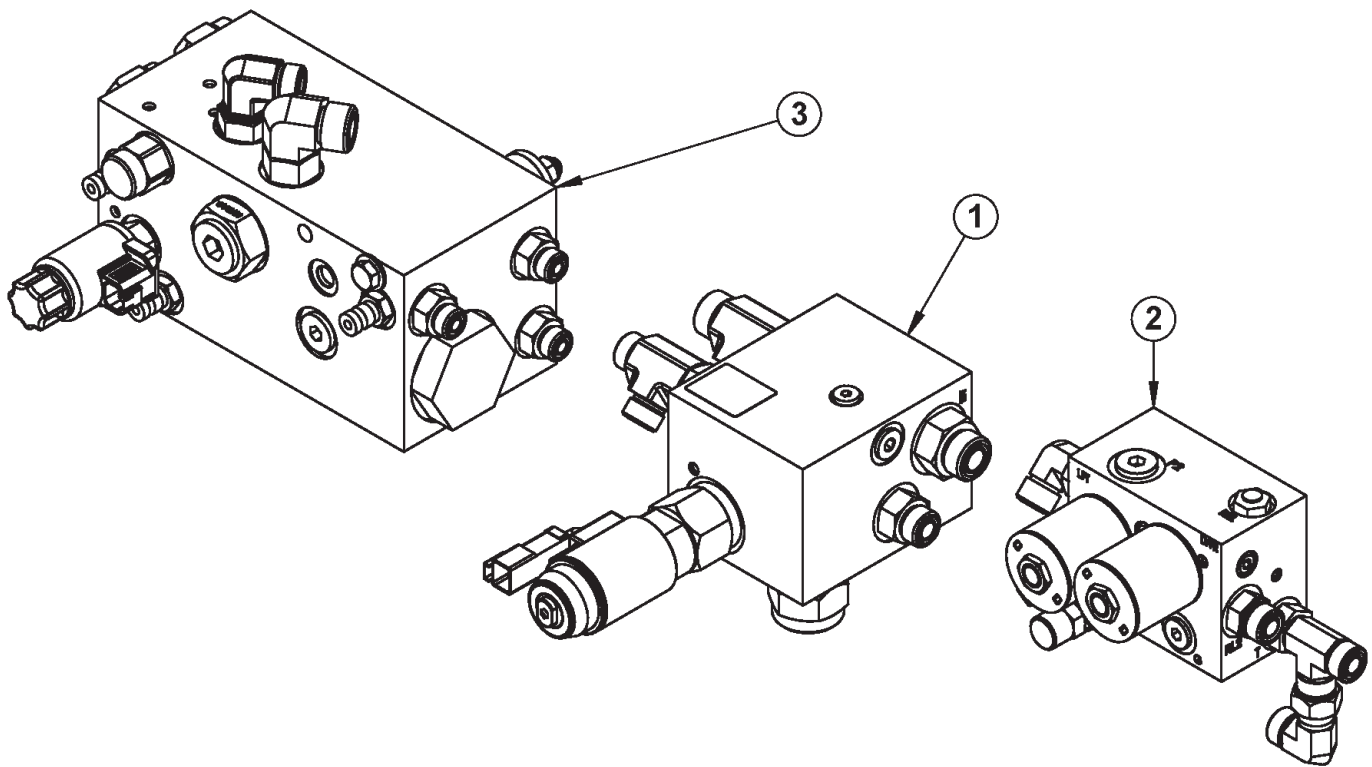


TA01997 Assy, 36R20 RH RU Lift Hose Routing

ITEM	PART NUMBER	DESCRIPTION	QTY	TORQUE (ft-lbs)
1	AD-04MFS-04FST-04MFS	Adapter, 04MFS-04FST-04MFS Tee	1	
2	AD-04MFS-04FST-90	Adapter, 04MFS-04FST 90	13	
3	AD-04MFS-04MB-90	Adapter, 04MFS-04MB 90	13	
4	AD-04MFS-04MFS-04MFS-BH	Adapter, 04MFS-04MFS-04MFS BH Tee	9	
5	AD-04MFS-04MFS-04MFS-BHR	Adapter, 04MFS-04MFS-04MFS BH Run	2	
6	AD-04MFS-04MFS-BH90	Adapter, 04MFS-04MFS BH 90	2	
7	HS02-009-04FS-04FS	Hose 0.125-009-04FS-04FS	11	
8	HS02-013-04FS-04FS	Hose 0.125-013-04FS-04FS	1	
9	HS02-019-04FS-04FS	Hose 0.125-019-04FS-04FS	1	
10	HS04-017-04FS-04FS-A	Hose 0.250-017-04FS-04FS-A	1	
11	HS04-021-04FS-04FS-A	Hose, 0.250-021-04FS-04FS-A	1	
12	HS04-025-04FS-04FS-A	Hose, 0.250-025-04FS-04FS-A	1	
13	HS04-028-04FS-04FS-A	Hose 0.250-028-04FS-04FS-A	1	
14	T0056084	Tube Assy, Row Lift 20" Spacing	8	

Note:

1. **T=XXX** = Torque Expressed in ft-lbs (Use standard torque values from drawing T0000000 unless otherwise specified.
2. * Items marked with an asterisk are items that are included in that particular part or assembly.

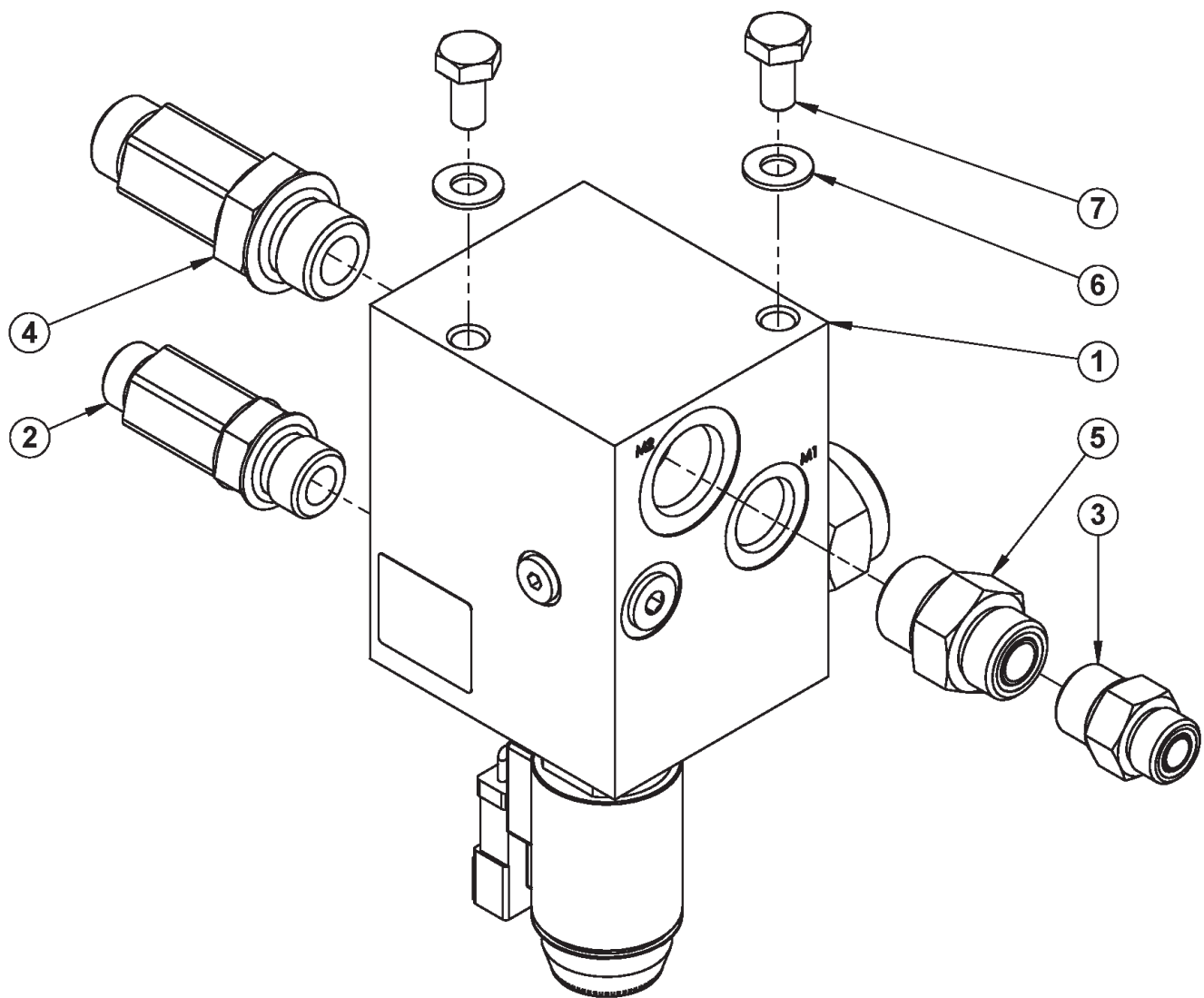


TA02088 Assy, 36R20 RH Wing Hyd. valves

ITEM	PART NUMBER	DESCRIPTION	QTY	TORQUE (ft-lbs)
1	TA01747	Assy, Hyd. Valve	1	
2	TA01889	Assy, Row Lift Valve	1	
3	TA01928	Assy, Delta Force Valve	1	

Note:

1. **T=XXX** = Torque Expressed in ft-lbs (Use standard torque values from drawing T0000000 unless otherwise specified.
2. * Items marked with an asterisk are items that are included in that particular part or assembly.

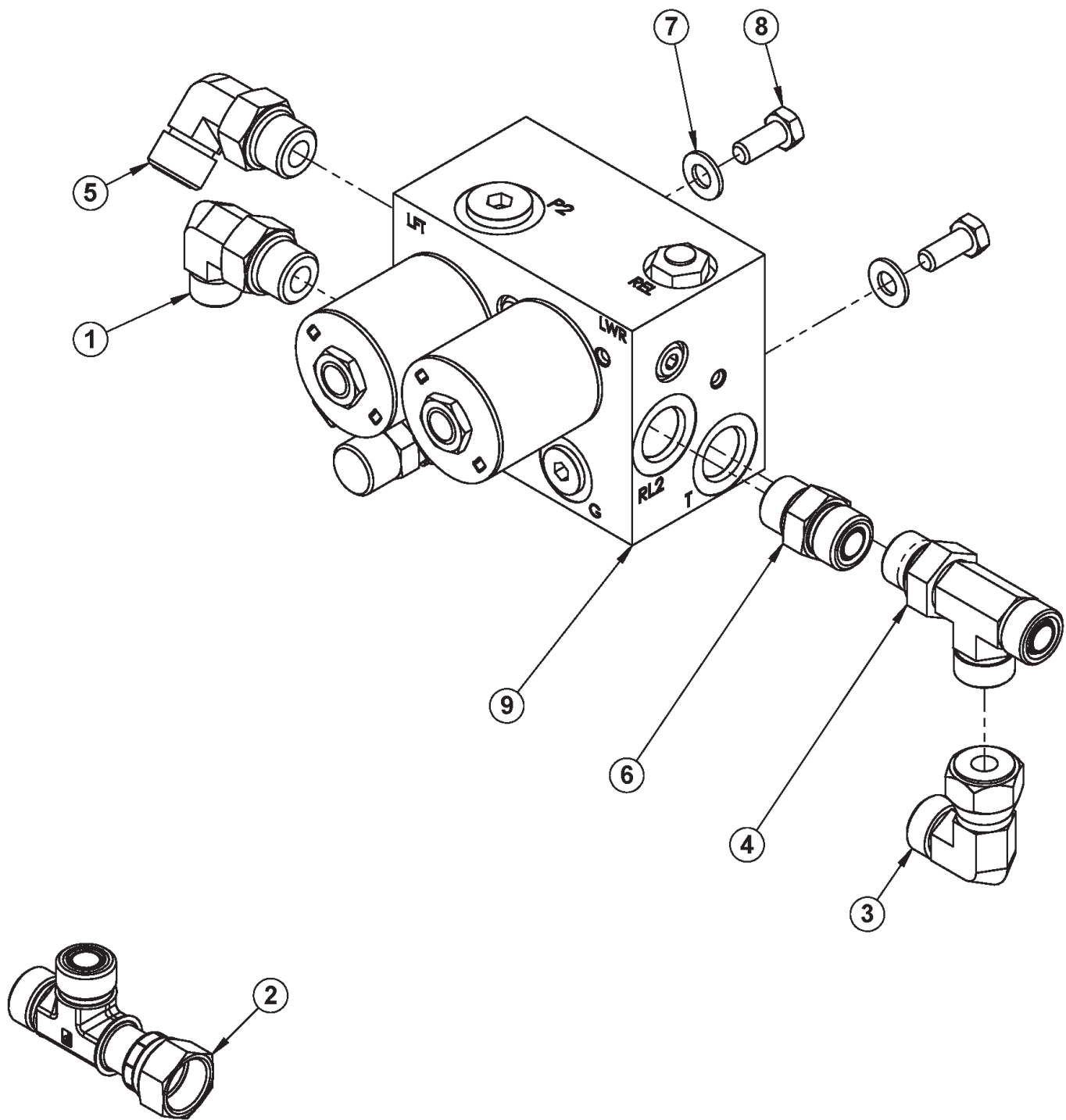


TA01747 Assy, Hyd. Valve

ITEM	PART NUMBER	DESCRIPTION	QTY	TORQUE (ft-lbs)
1	47919040	Fan Control Valve	1	
2	AD-08MFS-10MB-08MFS	Adapter, 08MFS-10MB-08MFS Tee	1	
3	AD-08MFS-10MB	Adapter, 08MFS-10MB	1	
4	AD-10MFS-12MB-10MFS	Adapter, 10MFS-12MB-10MFS Tee	1	
5	AD-10MFS-12MB	AD-10MFS-12MB	1	
6	FW-SAE-0.375Y	Washer, Flat SAE 3/8 YZ	2	
7	HB-M10-1.5x20-Y10.9	Bolt, Hex Hd M10-1.5x20 YZ10.9	2	

Note:

1. **T=XXX** = Torque Expressed in ft-lbs (Use standard torque values from drawing T0000000 unless otherwise specified.
2. * Items marked with an asterisk are items that are included in that particular part or assembly.

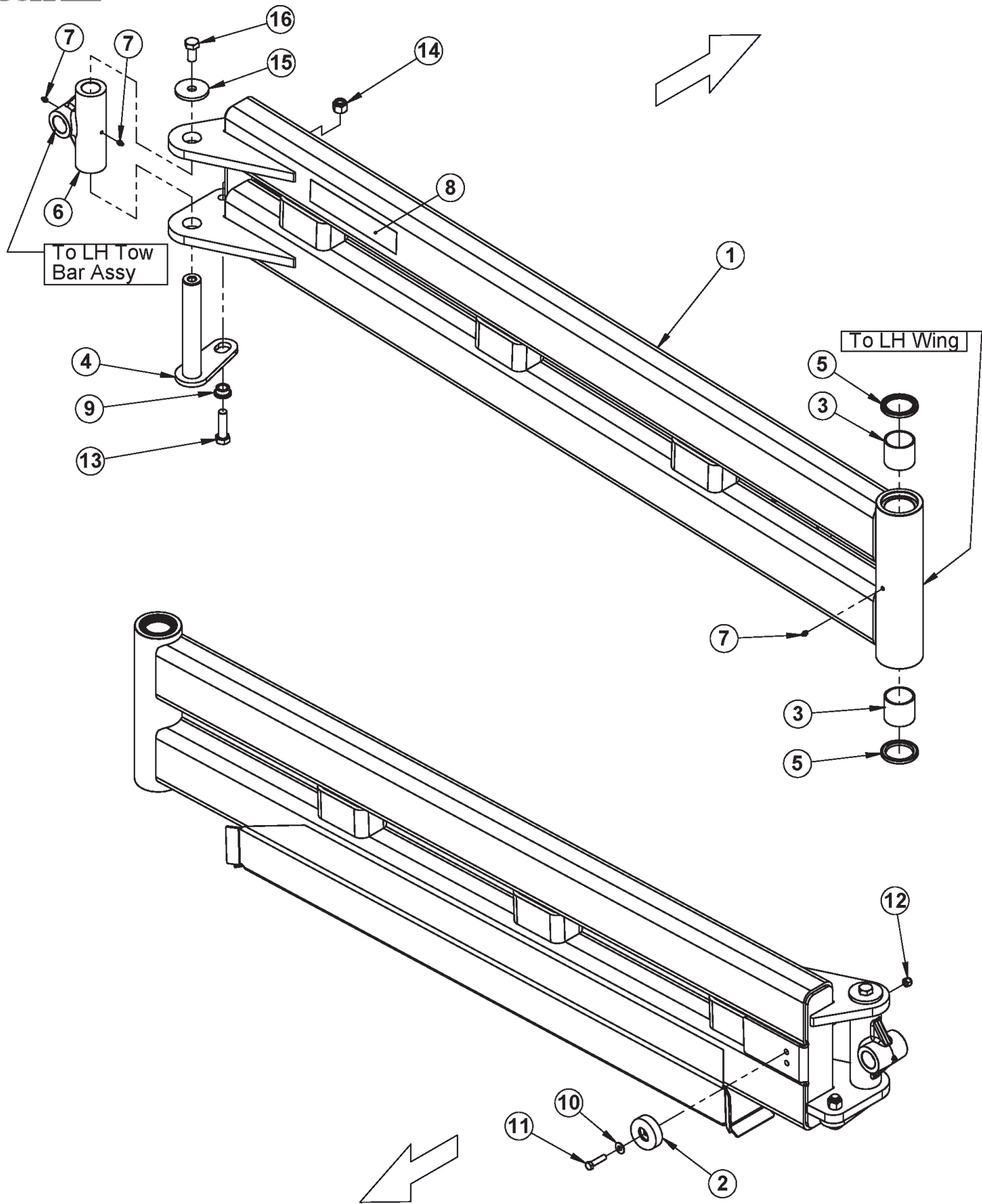


TA01889 Assy, Row Lift Valve

ITEM	PART NUMBER	DESCRIPTION	QTY	TORQUE (ft-lbs)
1	AD-06MFS-08MB-90	Adapter, 06MFS-08MB 90	1	
2	AD-08MFS-08FST-08MFS	Adapter, 08MFS-08FST-08MFS Tee	1	
3	AD-08MFS-08FST-90	Adapter, 08MFS-08FST 90	1	
4	AD-08MFS-08MB-08MFS	Adapter, 08MFS-08MB-08MFS Tee	1	
5	AD-08MFS-08MB-90	Adapter, 08MFS-08MB 90	1	
6	AD-08MFS-08MB	Adapter, 08MFS-08MB	1	
7	FW-SAE-0.313Y	Washer, Flat SAE 5/16 YZ	2	
8	HB-0.313-18X0.75Y8	Bolt, Hex Hd 5/16-18x3/4 YZ8	2	
9	T0055885	Valve, Row Lift	1	

Note:

1. **T=XXX** = Torque Expressed in ft-lbs (Use standard torque values from drawing T0000000 unless otherwise specified.
2. * Items marked with an asterisk are items that are included in that particular part or assembly.

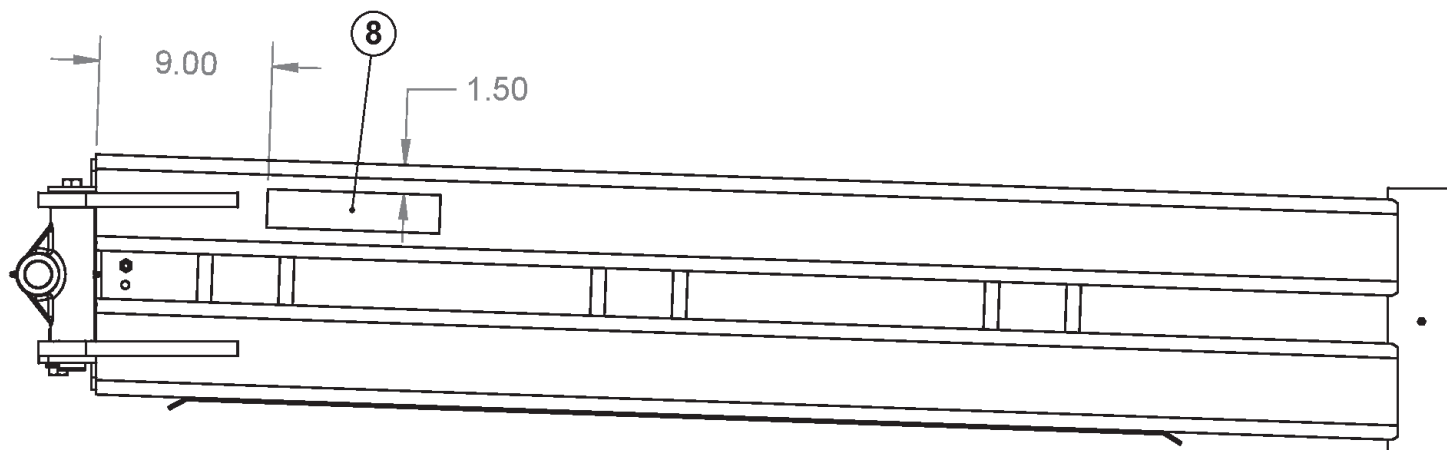


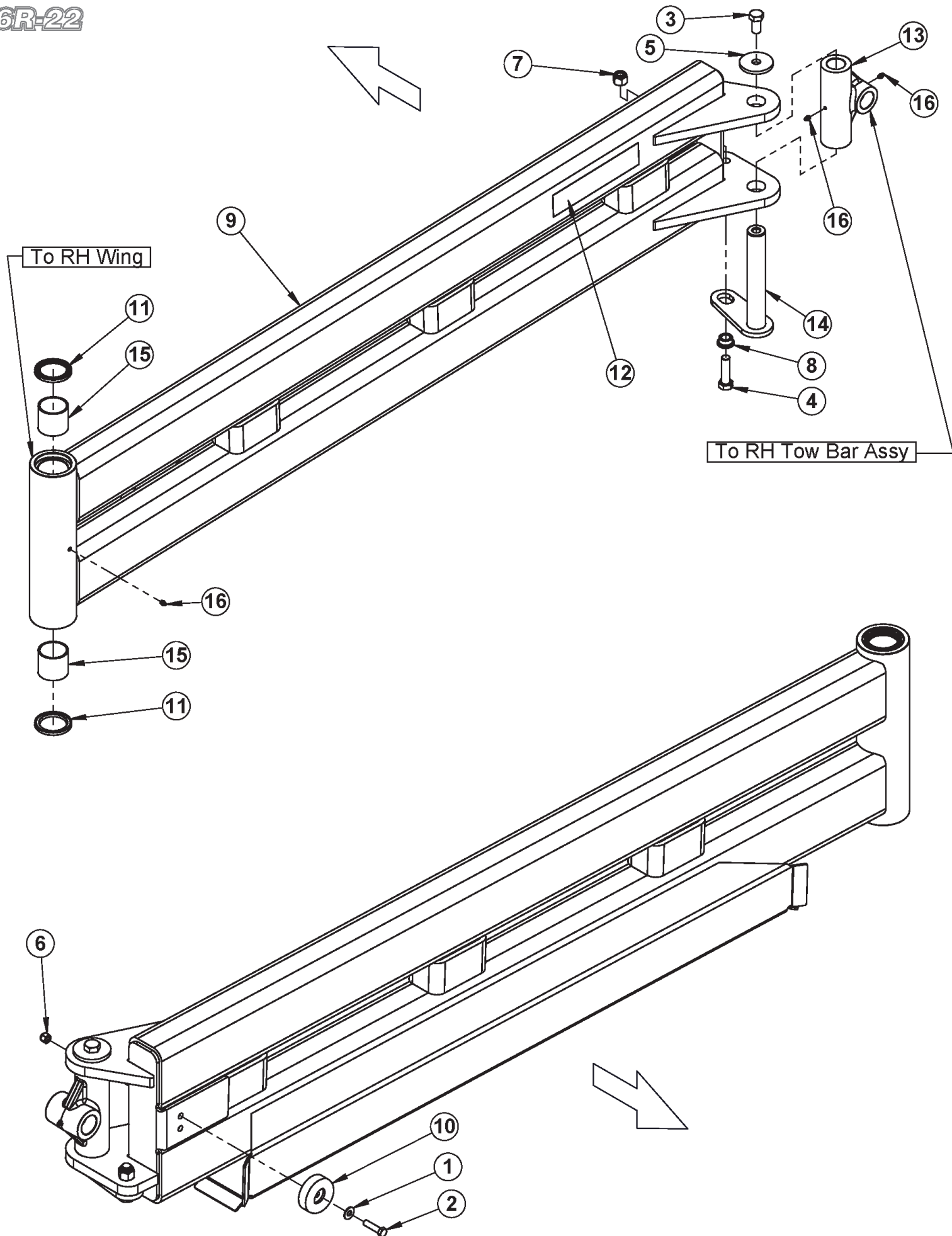
TA01360 Assy, Tow Bar Gate - LH

ITEM	PART NUMBER	DESCRIPTION	QTY.	TORQUE (ft-lbs)
1	TW001215	Wldmt, LH Towbar Gate	1	
2	T0051481	Rubber Stop	1	
3	PB-2.000X2.25X2.00	Polylube Bush, Ø2.00xØ2.25x2.00	2	
4	TW000761	Pin Weldment	1	
5	T0051585	2.00 Grease Seal	2	
6	T0052223	Tow Bar Knuckle Machined	1	
7	ZERK-0.250-28	Zerk, 1/4-28	3	
8	T0051729	Decal, Reflector, Yellow-2x9	1	
9	T0050854	Anti Rotation Insert	1	
10	FW-USS-0.313Y	Washer, Flat USS 5/16-YZ	1	
11	HB-0.375-16X1.50Y8	Bolt, Hex Hd 3/8-16x1-1/2-YZ8	1	
12	NLNUT-0.375-16Y8	Nut, Nylock 3/8-16 YZ8	1	
13	HB-0.625-11X2.25Y8	Bolt, Hex Head-5/8-11x2.25-YZ8	1	
14	NLNUT-0.625-11Y8	Nut, Nylock-5/8-11-YZ8	1	
15	HDWSH-0.64X2.50Y	HD Washer 0.64 x 2.50	1	
16	HB-0.625-11X1.25Y8	Bolt, Hex Head-5/8-11x1.25-YZ8	1	

Note:

1. **T=XXX** = Torque Expressed in ft-lbs (Use standard torque values from drawing T0000000 unless otherwise specified.
2. * Items marked with an asterisk are items that are included in that particular part or assembly.



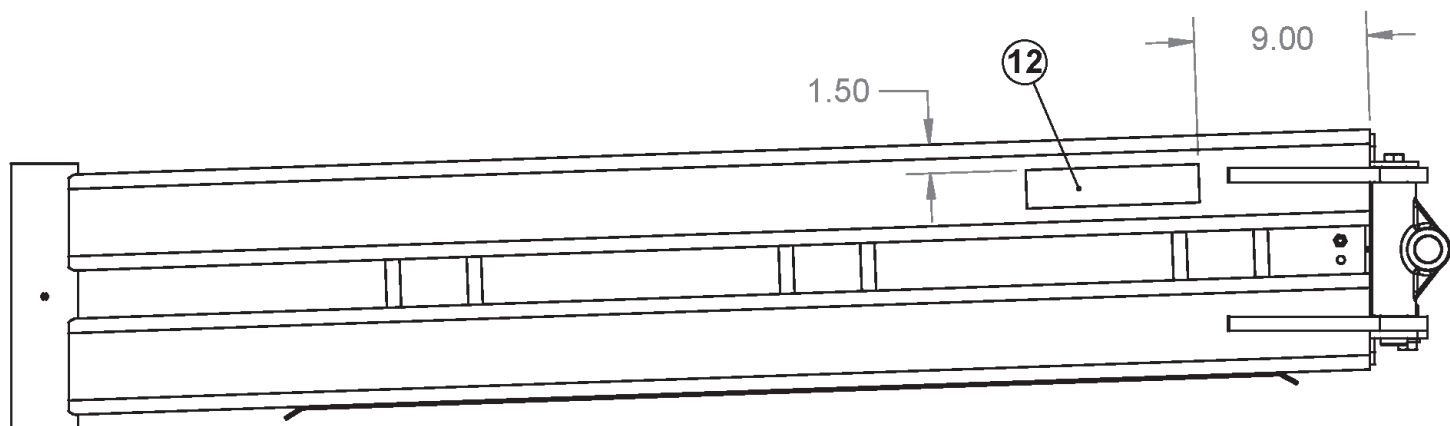


TA01361 Assy, Tow Bar Gate - RH

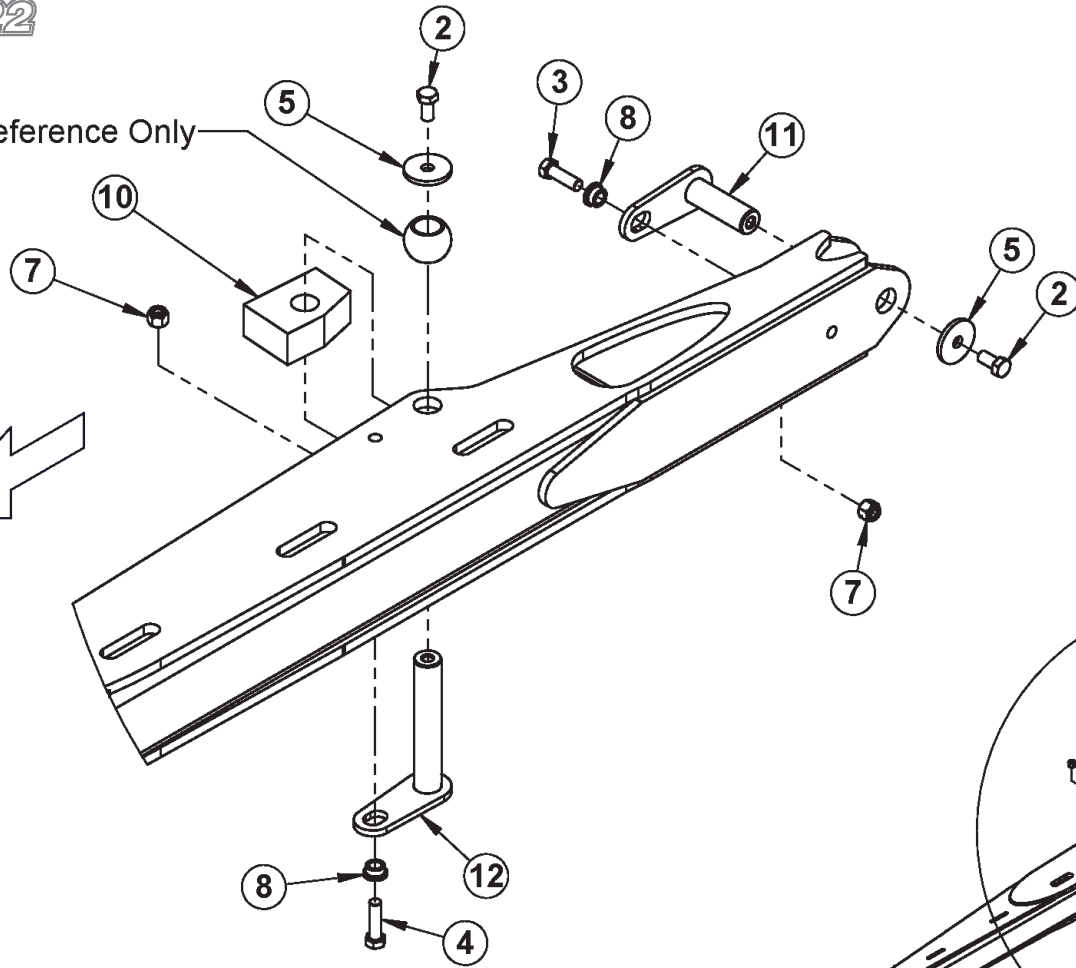
ITEM	PART NUMBER	DESCRIPTION	QTY	TORQUE (ft-lbs)
1	FW-USS-0.313Y	Washer, Flat USS 5/16-YZ	1	
2	HB-0.375-16X1.50Y8	Bolt, Hex Hd 3/8-16x1-1/2-YZ8	1	
3	HB-0.625-11X1.25Y8	Bolt, Hex Head-5/8-11x1.25-YZ8	1	
4	HB-0.625-11X2.25Y8	Bolt, Hex Head-5/8-11x2.25-YZ8	1	
5	HDWSH-0.64X2.50Y	HD Washer 0.64 x 2.50	1	
6	NLNUT-0.375-16Y8	Nut, Nylock 3/8-16 YZ8	1	
7	NLNUT-0.625-11Y8	Nut, Nylock-5/8-11-YZ8	1	
8	T0050854	Anti Rotation Insert	1	
9	TW001216	Wldmt, RH Towbar Gate	1	
10	T0051481	Rubber Stop	1	
11	T0051585	2.00 Grease Seal	2	
12	T0051729	Decal, Reflector, Yellow-2x9	1	
13	T0052223	Tow Bar Knuckle Machined	1	
14	TW000761	Pin Weldment	1	
15	PB-2.000X2.25X2.00	Polylube Bush, Ø2.00xØ2.25x2.00	2	
16	ZERK-0.250-28	Zerk, 1/4-28	3	

Note:

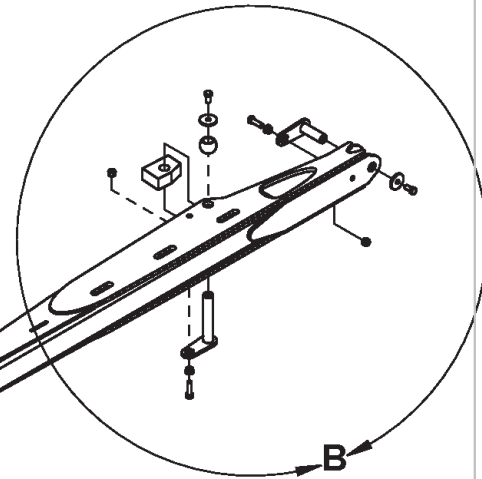
1. **T=XXX** = Torque Expressed in ft-lbs (Use standard torque values from drawing T0000000 unless otherwise specified.
2. * Items marked with an asterisk are items that are included in that particular part or assembly.



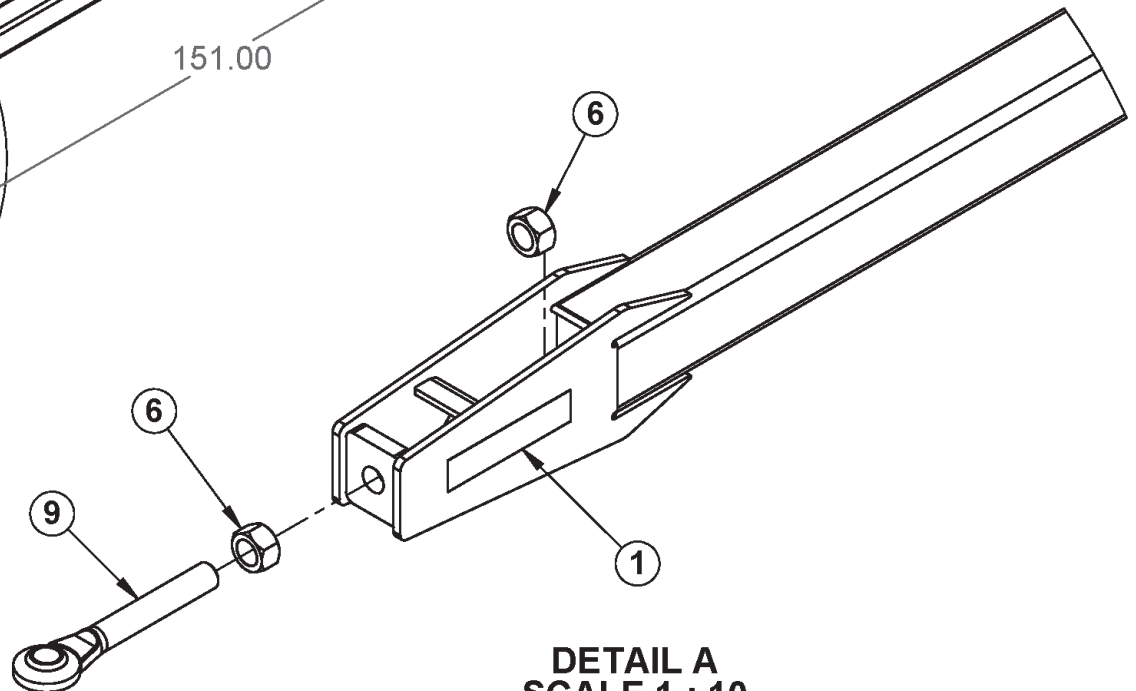
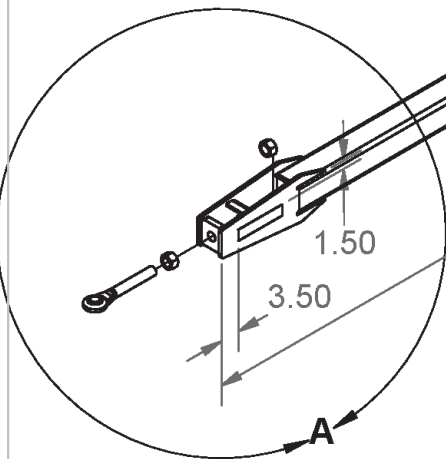
For Reference Only



DETAIL B
SCALE 1 : 10



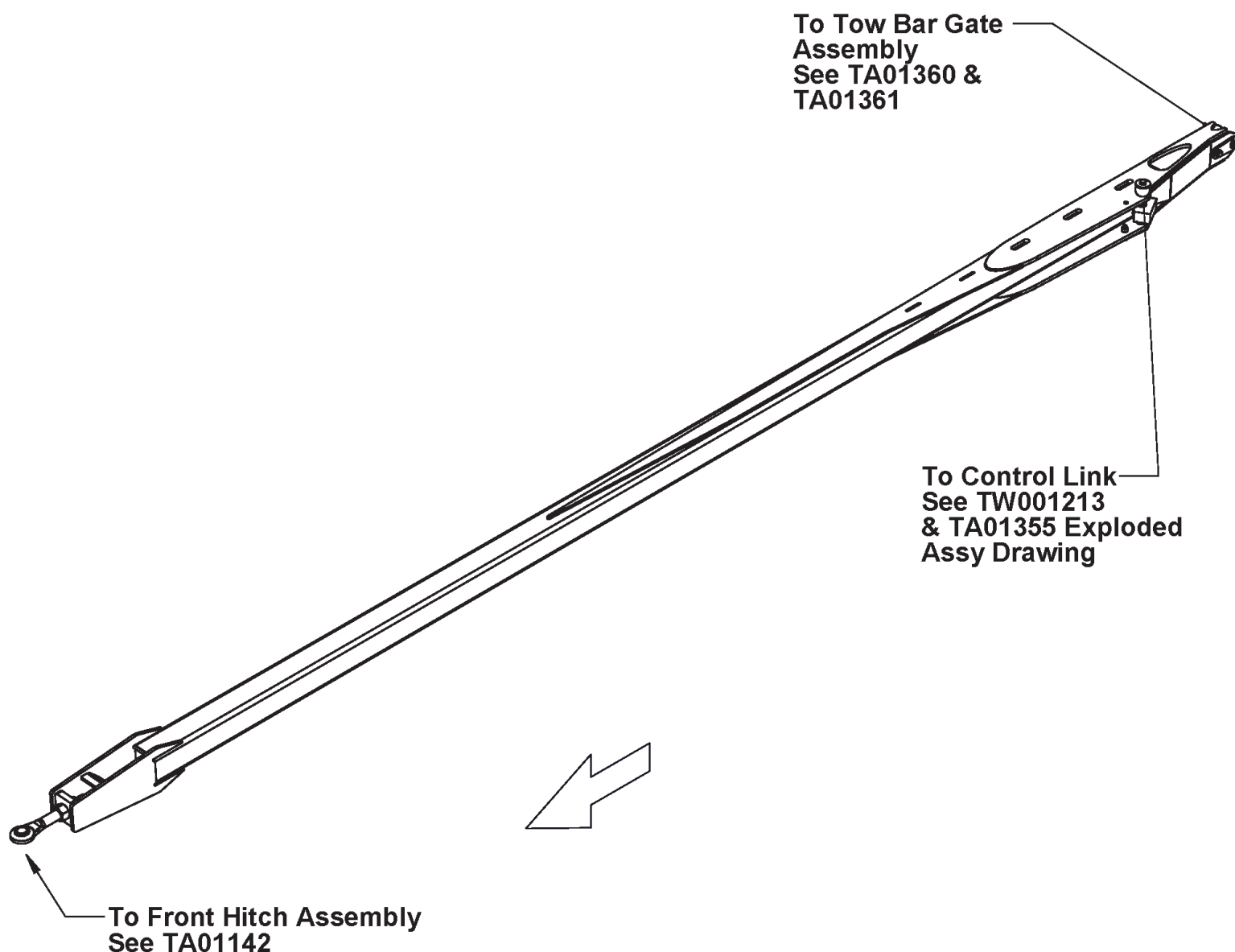
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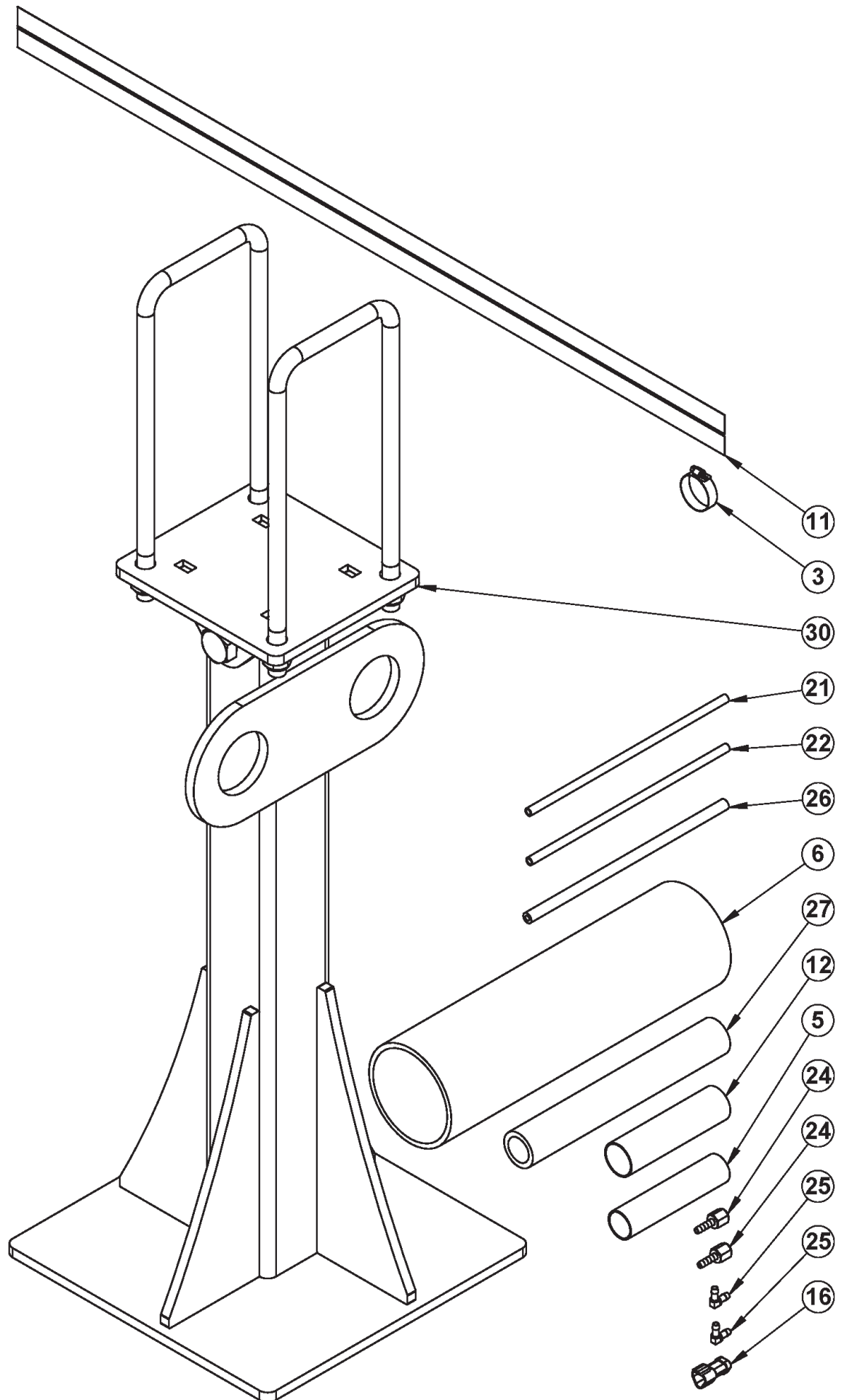


DETAIL A
SCALE 1 : 10

TA01356 Assy, Tow Bar

ITEM	PART NUMBER	DESCRIPTION	QTY	TORQUE (ft-lbs)
1	90-44-0410	Decal, Reflector, Yellow-2x9	2	
2	HB-0.625-11X1.25Y8	Bolt, Hex Hd 5/8-11x1-1/4 YZ8	2	
3	HB-0.625-11X2.00Y8	Bolt, Hex Hd 5/8-11x2 YZ8	1	
4	HB-0.625-11X2.25Y8	Bolt, Hex Hd 5/8-11x2-1/4 YZ8	1	
5	HDWSH-0.64X2.50Y	HD Washer, 41/64x2-1/2 YZ	2	
6	HNUT-1.500-6Y8	Nut, Hex 1-1/2-6 YZ8	2	
7	NLNUT-0.625-11Y8	Nylon Lock Nut, 5/8-11 YZ8	2	
8	T0050854	Anti Rotation Insert	2	
9	T0051213	RH End Link	1	
10	T0053376	Block, Tow Bar	1	
11	TW000763	Pin Weldment	1	
12	TW000894	Pin Weldment	1	
13	TW001212	Tow Bar Weldment	1	



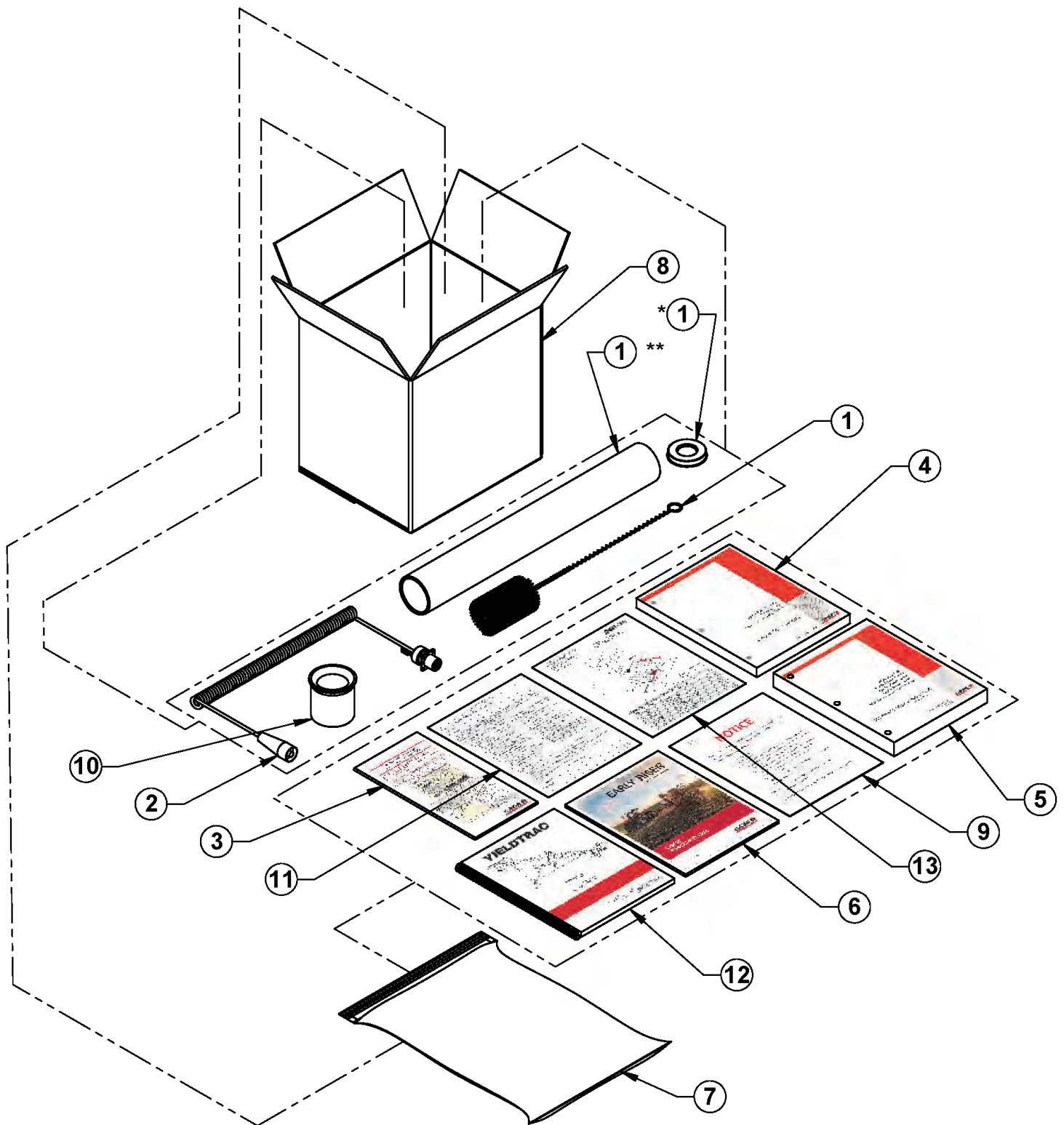


TA02028 Assy, Bulk Material 36R20 FF 2000

ITEM	PART NUMBER	DESCRIPTION	QTY	TORQUE (ft-lbs)
1	47684480	Harness, Hitch Ext 126"	1	
2	73341728	Bulk Oil, UltrAction (per gal)	20	
3	HCLMP-SAE-16SS	Clamp, Hose-SAE-#16-SS	18	
4	T0051552	Sticker-Tite Rubber Gasket Cut Length 36.63"	35	
5	T0051572	Hose Sleeve - 1.25" ID x 6.00"	36	
6	T0051671	Hose, Vacuum 4.5" (per ft)	10	
7	T0051672	Hose, 1.00" PVC (per ft)	600	
8	T0051673	Hose, 1.25" PVC (per ft)	200	
9	T0052516	Gear Lube 80W90 (per gal)	1	
10	T0052528	Spiral Poly Wrap 1.00 (per ft)	40	
11	T0053503	Decals, 36 Row Unit Numbers	1	
12	T0055447	Hose Sleeve - 1.50" ID x 6.00"	6	
13	T0055628	Harness, Backbone Adapter	35	
14	T0055629	Harness, UCM CAN Adapter	1	
15	T0055630	Harness, PDM Adapter	1	
16	T0055634	Connector, Terminator	1	
17	T0055645	Harness, Toolbar FF 2000 Series	1	
18	T0055646	Harness, Frame Front Fold 2000 Series	1	
19	T0055672	Harness, Row Lift	1	
20	T0055685	Harness, Hitch ISO 2000 Series	1	
21	T0055739	Air Line, 0.375" White (per ft)	125	
22	T0055740	Air Line, 0.375" Blue (per ft)	125	
23	T0056002	Harness, Warning Lights	2	
24	T0056058	Hose Barb, Brass 1/4" Hose x 1/4" NPT	2	
25	T0056061	Elbow, Vacuum Tap	2	
26	T0056062	Hose, 1/4" Clear Vinyl (per ft)	6	
27	T0056097	Hose, Vacuum 1.25" (per ft)	5	
28	T0056203	Harness, Row Lift Fold Sensor	1	
29	T0056204	Harness, Row Lift Fold Indicator	1	
30	TA01705	Assy, Shipping Stand	1	
31	TA02029	Hose Kit, Base 36R20 FF 2000	1	

Note:

1. **T=XXX** = Torque Expressed in ft-lbs (Use standard torque values from drawing T0000000 unless otherwise specified.
2. * Items marked with an asterisk are items that are included in that particular part or assembly.



TA01949 Operator's Package FF 2000 (All Models)

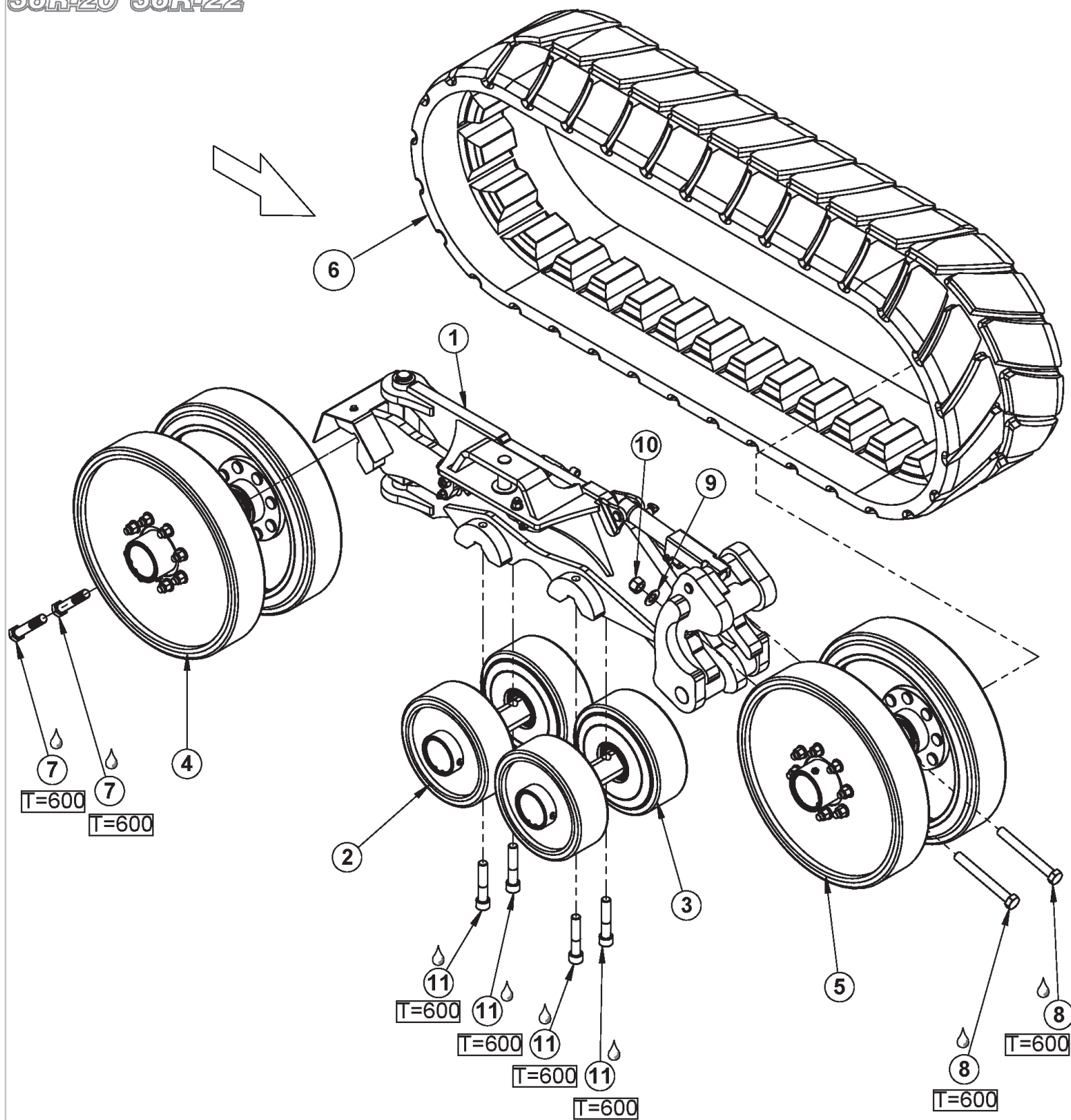
ITEM	PART NUMBER	DESCRIPTION	QTY
1	346290A1	Brush, Seed Tube	1
2	1983416C2	Switch, Remote Calibration Tether	1
3	48061676	Early Riser AFS QRC (2000)	1
4	48127011	2150 24R Operator's Manual	1
5	51409491	Planter Software Manual v31.* (2000)	1
6	PL-3106-18	Early Riser Productivity Tips 2000	1
7	T0051793	Bag, Recloseable-13"x18" 6Mil	1
8	T0051794	Box, Cardboard 12X10X12	1
9	T0052697	Notice, Track Alignment	1
11	T0055155	Chcklst, PDI&Startup	1
12	T0056008	Manual, Operator's MY2019 2000 RU	1
13	T0056009	Chklst, Oper Pkg FF 2000 (All Models)	1

* Denotes that the cap comes with the seed tube brush.

** Denotes that tube comes with the seed tube brush.

Optional Items For 36 Row or Larger

ITEM	PART NUMBER	DESCRIPTION	QTY.
10	T0053965	Bushing, Cat 5 2.00" Pin	1

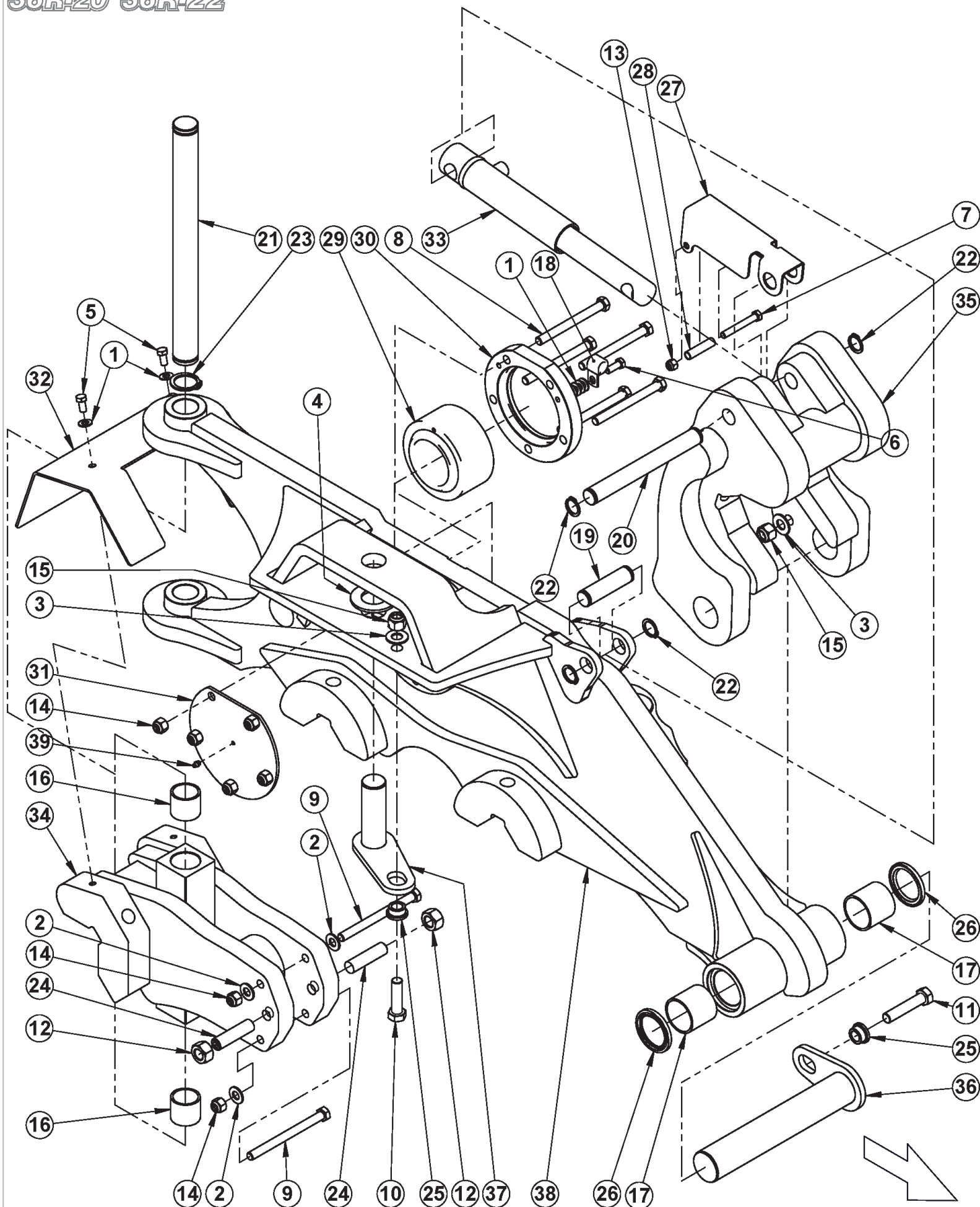


TA01230 Assy, 18" RH Track

ITEM	PART NUMBER	DESCRIPTION	QTY	TORQUE (ft-lbs)
1	TA01049	Assy, RH Track Undercarriage	1	
2	TA01225	Roller Narrow Asm	1	
3	TA01225	Roller Narrow Asm	1	
4	TA01221	Idler Narrow Asm	1	
5	TA01221	Idler Narrow Asm	1	
6	T0054414	Track, 18" Wide Planter	1	
7	HB-1.000-8X5.50Y8	HBolt-1.0000-8x5.50-YZ8	2	
8	HB-1.000-8X8.50Y8	Bolt, Hex Head-1.0-8x8.5-YZ8	2	
9	FW-SAE-1.000Y	Washer, Flat SAE-1.0-YZ	2	
10	NLNUT-1.000-8Y8	Nut, Nylock-1.0-8-YZ8	2	
11	SHCS-1.000-8X5.00B8	SHCS-1.000-8X5.00 B8	4	

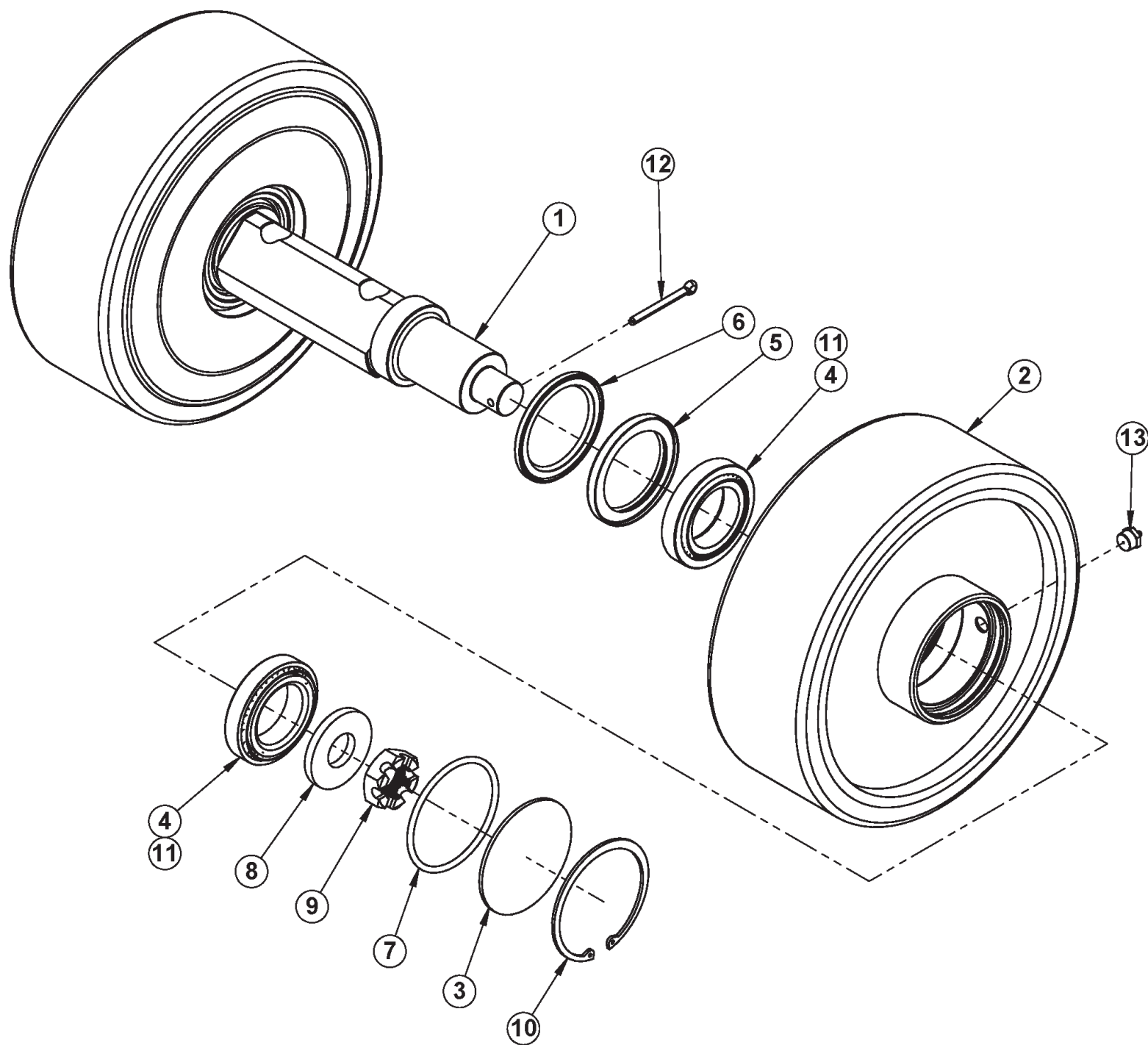
Note:

1.  = Torque, and is expressed in ft-lbs.
2.  = Apply 30W oil to the threads before assembly.



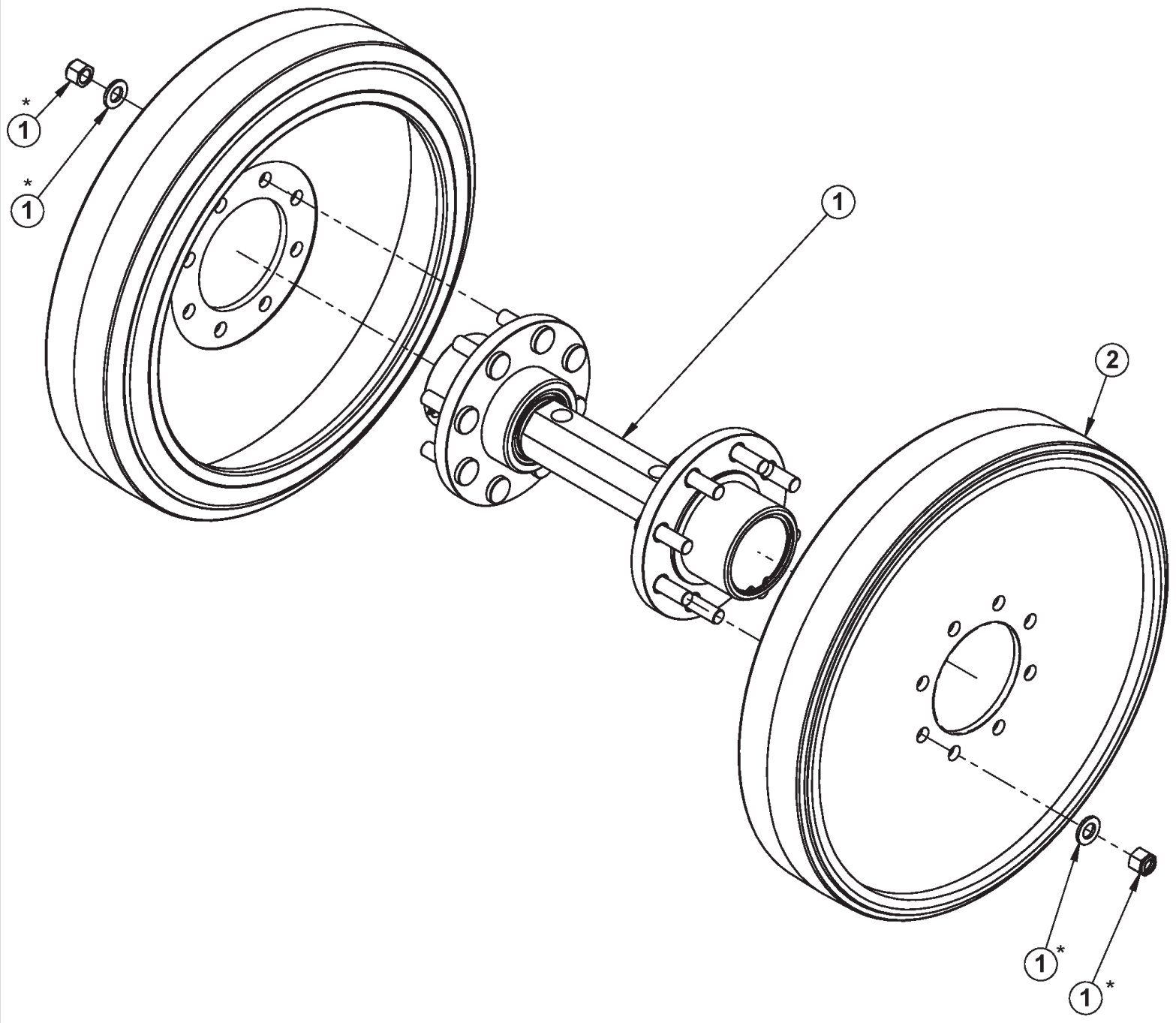
TA01049 Assy, RH Track Undercarriage

ITEM	PART NUMBER	DESCRIPTION	QTY.	TORQUE (ft-lbs)
1	FW-SAE-0.375Y	Washer, Flat SAE 3/8 YZ	7	
2	FW-SAE-0.500Y	Washer, Flat SAE 1/2 YZ	4	
3	FW-SAE-0.625Y	Washer, Flat SAE 5/8 YZ	2	
4	FW-SAE-1.375Y	Washer, Flat SAE 1-3/8 YZ	1	
5	HB-0.375-16X0.75Y8	HBolt-0.3750-16x0.750-YZ8	2	
6	HB-0.375-16X1.00Y8	Bolt, Hex Hd 3/8-16x1 YZ8	1	
7	HB-0.375-16X2.75Y8	Bolt, Hex Hd 3/8-16x2-3/4 YZ8	1	
8	HB-0.500-13X5.25Y8	Bolt, Hex Hd 1/2-13x5-1/4 YZ8	5	
9	HB-0.500-13X6.00Y8	Bolt, Hex Hd 1/2-13x6 YZ8	2	
10	HB-0.625-11X2.25Y8	Bolt, Hex Hd 5/8-11x2-1/4 YZ8	1	
11	HB-0.625-11X3.00Y8	Bolt, Hex Hd 5/8-18x3 YZ8	1	
12	HNUT-0.750-10Y8	Nut, Hex 3/4-10 YZ8	2	
13	NLNUT-0.375-16Y8	Nylon Lock Nut, 3/8-16 YZ8	1	
14	NLNUT-0.500-13Y8	Nylon Lock Nut, 1/2-13 YZ8	7	
15	NLNUT-0.625-11Y8	Nylon Lock Nut, 5/8-11 YZ8	2	
16	PB-1.500X1.75X1.50	Bushing, Composite 1-1/2x1-3/4x1-1/2	2	
17	PB-2.000X2.25X2.00	Bushing, Composite 2x2-1/4x2	2	
18	PCLMP-0.750x0.875	Clamp, Tube 3/4x13/32	1	
19	PIN-1.000X3.38Y	Pin, 1x3-3/8 YZ	1	
20	PIN-1.000X8.625Y	Pin, 1x8-5/8 YZ	1	
21	PIN-1.50X16.25Y	Pin, 1-1/2x16-1/4 YZ	1	
22	SRING-EXT-HD-1.00Y	Retaining Ring, External 1 HD YZ	4	
23	SRING-EXT-HD-1.50Y	Retaining Ring, External 1-1/2 HD YZ	2	
24	SSOV-0.750-10X3.00B	Set Screw, Oval 3/4-10x3 BO	2	
25	T0050854	Anti Rotation Insert	2	
26	T0051585	2.00 Grease Seal	2	
27	T0053489	Shield, Tension Cylinder	1	
28	T0053497	Sleeve, Spacer	1	
29	T0053511	BEARING, SPHERICAL-3" SHAFT	1	
30	T0053524	Cap, Bearing	1	
31	T0054068	Grease Cap	1	
32	T0054437	Track Seal Cover	1	
33	TA01003	Cylinder, Hyd 1.50X5.50 SA	1	
34	TW000958	Wldmt (Mach), Track Alignment	1	
35	TW000962	Wldmt (Mach), Track Tensioner	1	
36	TW000963	Weld, Pin	1	
37	TW000964	Weld, Pin	1	
38	TW000982	Wldmt, RH Undercarriage-Mach	1	
39	ZERK-0.250-28	Zerk, 1/4-28	1	



TA01225 Roller Narrow Asm

ITEM	PART NUMBER	DESCRIPTION	QTY	TORQUE (ft-lbs)
1	T0054431	Roller Axle	1	
2	TA01223	Roller Narrow Overmold	2	
3	T0054421	8-Bolt Hub Cap	2	
4	T0054432	Bearing Cup	4	
5	T0051029	3.0 Inch Seal	2	
6	T0051948	Seal, Radial Shaft Ø3.00 x .25	2	
7	ORING-4.250X.188	4-1/4" x 0.188" O-Ring	2	
8	HDWSH-1.26X2.88Y	1.25 x 2.87 x 0.31 Washer	2	
9	SHJN-1.250-12	Nut, Slotted Hex Jam 1-1/4"-12	2	
10	SRING-INT-4.25	4-1/4" INT SRING	2	
11	T0054433	2.25 Tapered Roller Bearing Cone	4	
12	CTPIN-0.250X2.50	COTTERPIN, 1/4 X 2-1/2	2	
13	ZERK-0.375-NPT	Zerk 0.375-NPT	2	

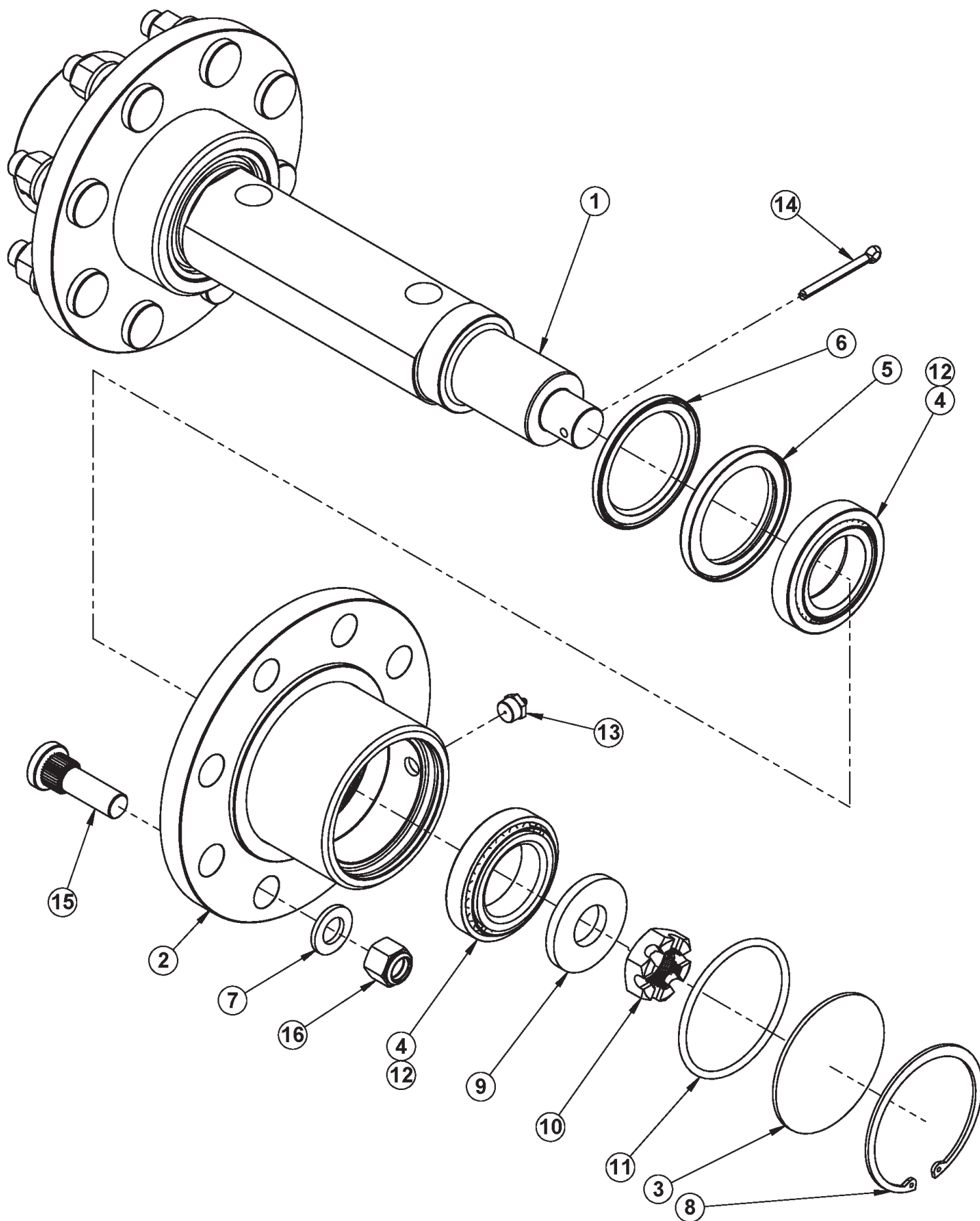


TA01221 Idler Narrow Asm

ITEM	PART NUMBER	DESCRIPTION	QTY	TORQUE (ft-lbs)
1	TA01219	Idler Axle Asm	1	
2	TA01218	Idler Narrow Overmold	2	

Note:

*Items marked with an asterisk are items that are included in that particular part or assembly.

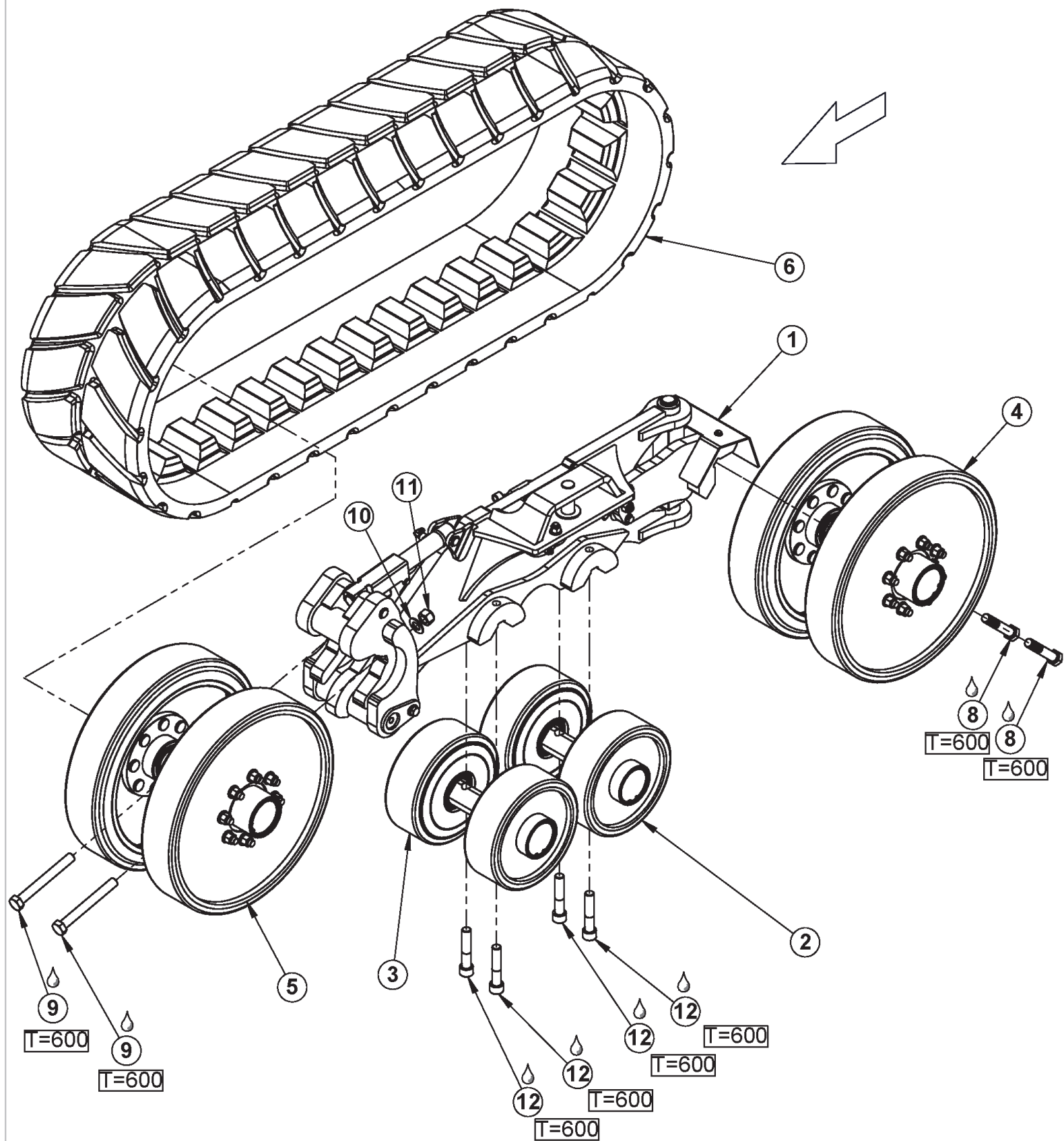


TA01219 Idler Axle Asm

ITEM	PART NUMBER	DESCRIPTION	QTY	TORQUE (ft-lbs)
1	T0054424	Idler Axle	1	
2	TW001134	8-Bolt Hub Machined	2	
3	T0054421	8-Bolt Hub Cap	2	
4	T0054432	Bearing Cup	4	
5	T0051029	3.0 Inch Seal	2	
6	T0051948	Seal, Radial Shaft Ø3.00 x .25	2	
7	FW-SAE-0.750YTH	Washer, FL SAE 3/4 Th-Hrd YZ	16	
8	SRING-INT-4.25	4-1/4" INT SRING	2	
9	HDWSH-1.26X2.88Y	1.25 x 2.87 x 0.31 Washer	2	
10	SHJN-1.250-12	Nut, Slotted Hex Jam 1-1/4"-12	2	
11	ORING-4.250X.188	4-1/4" x 0.188" O-Ring	2	
12	T0054433	2.25 Tapered Roller Bearing Cone	4	
13	ZERK-0.375-NPT	Zerk 0.375-NPT	2	
14	CTPIN-0.250X2.50	COTTERPIN, 1/4 X 2-1/2	2	
15	WS-0.750-16X2.625C5	Stud, Wheel 3/4-16 Gr5 CZ	16	
16	NLNUT-0.750-16Y8	Nut, Nylock-3/4-16-YZ8	16	

Note:

*Items marked with an asterisk are items that are included in that particular part or assembly.

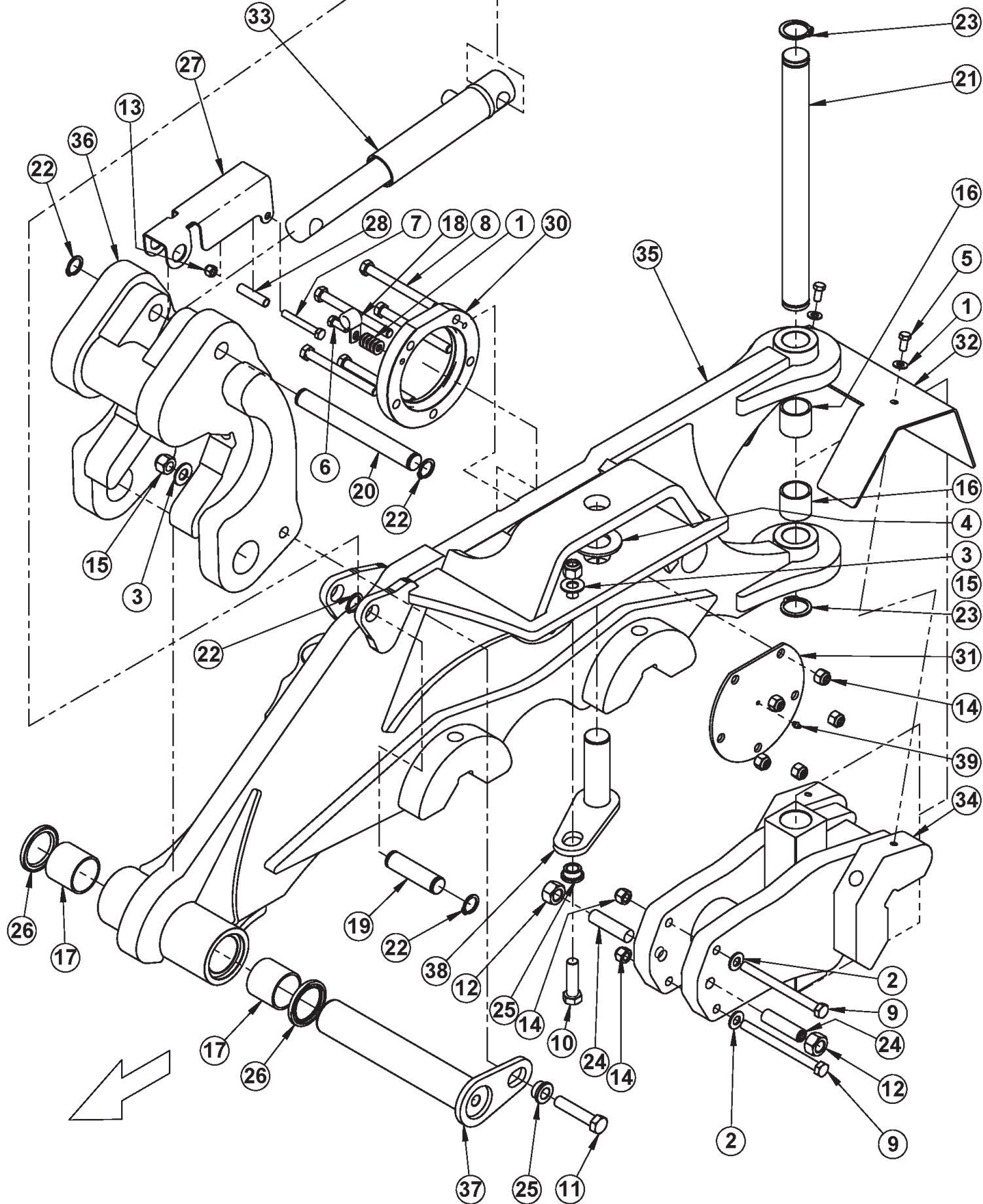


TA01231 Assy, 18" LH Track

ITEM	PART NUMBER	DESCRIPTION	QTY	TORQUE (ft-lbs)
1	TA01024	Assy, LH Track Undercarriage	1	
2	TA01225	Roller Narrow Asm	1	
3	TA01225	Roller Narrow Asm	1	
4	TA01221	Idler Narrow Asm	1	
5	TA01221	Idler Narrow Asm	1	
6	T0054414	Track, 18" Wide Planter	1	
7	T0053511	BEARING, SPHERICAL-3" SHAFT	1	
8	HB-1.000-8X5.50Y8	HBolt-1.0000-8x5.50-YZ8	2	600
9	HB-1.000-8X8.50Y8	Bolt, Hex Head-1.0-8x8.5-YZ8	2	600
10	FW-SAE-1.000Y	Washer, Flat SAE-1.0-YZ	2	
11	NLNUT-1.000-8Y8	Nut, Nylock-1.0-8-YZ8	2	
12	SHCS-1.000-8X5.00B8	SHCS-1.000-8X5.00 B8	4	600

Note:

1.  = Torque, and is expressed in ft-lbs.
2.  = Apply 30W oil to the threads before assembly.

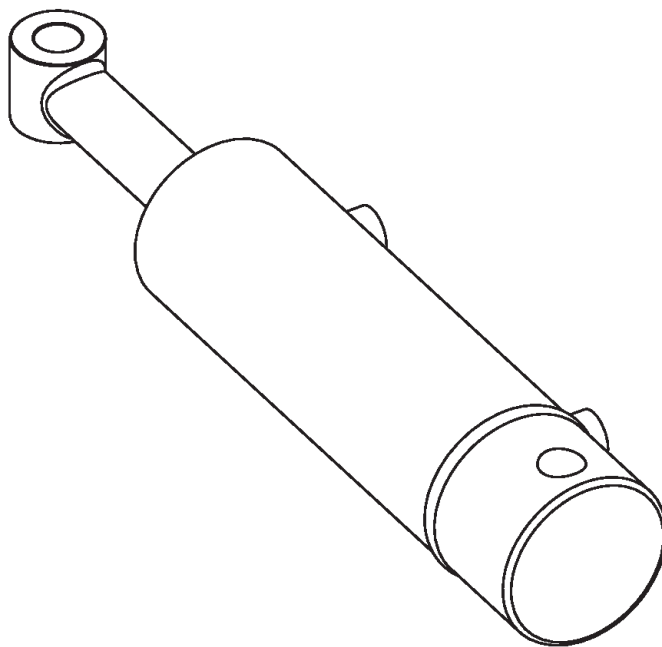


TA01024 Assy, LH Track Undercarriage

ITEM	PART NUMBER	DESCRIPTION	QTY.	TORQUE (ft-lbs)
1	FW-SAE-0.375Y	Washer, Flat SAE 3/8 YZ	7	
2	FW-SAE-0.500Y	Washer, Flat SAE 1/2 YZ	4	
3	FW-SAE-0.625Y	Washer, Flat SAE 5/8 YZ	2	
4	FW-SAE-1.375Y	Washer, Flat SAE 1-3/8 YZ	1	
5	HB-0.375-16X0.75Y8	HBolt-0.3750-16x0.750-YZ8	2	
6	HB-0.375-16X1.00Y8	Bolt, Hex Hd 3/8-16x1 YZ8	1	
7	HB-0.375-16X2.75Y8	Bolt, Hex Hd 3/8-16x2-3/4 YZ8	1	
8	HB-0.500-13X5.25Y8	Bolt, Hex Hd 1/2-13x5-1/4 YZ8	5	
9	HB-0.500-13X6.00Y8	Bolt, Hex Hd 1/2-13x6 YZ8	2	
10	HB-0.625-11X2.25Y8	Bolt, Hex Hd 5/8-11x2-1/4 YZ8	1	
11	HB-0.625-11X3.00Y8	Bolt, Hex Hd 5/8-18x3 YZ8	1	
12	HNUT-0.750-10Y8	Nut, Hex 3/4-10 YZ8	2	
13	NLNUT-0.375-16Y8	Nylon Lock Nut, 3/8-16 YZ8	1	
14	NLNUT-0.500-13Y8	Nylon Lock Nut, 1/2-13 YZ8	7	
15	NLNUT-0.625-11Y8	Nylon Lock Nut, 5/8-11 YZ8	2	
16	PB-1.500X1.75X1.50	Bushing, Composite 1-1/2x1-3/4x1-1/2	2	
17	PB-2.000X2.25X2.00	Bushing, Composite 2x2-1/4x2	2	
18	PCLMP-0.750x0.875	Clamp, Tube 3/4x13/32	1	
19	PIN-1.000X3.38Y	Pin, 1x3-3/8 YZ	1	
20	PIN-1.000X8.625Y	Pin, 1x8-5/8 YZ	1	
21	PIN-1.50X16.25Y	Pin, 1-1/2x16-1/4 YZ	1	
22	SRING-EXT-HD-1.00Y	Retaining Ring, External 1 HD YZ	4	
23	SRING-EXT-HD-1.50Y	Retaining Ring, External 1-1/2 HD YZ	2	
24	SSOV-0.750-10X3.00B	Set Screw, Oval 3/4-10x3 BO	2	
25	T0050854	Anti Rotation Insert	2	
26	T0051585	2.00 Grease Seal	2	
27	T0053489	Shield, Tension Cylinder	1	
28	T0053497	Sleeve, Spacer	1	
29	T0053511	BEARING, SPHERICAL-3" SHAFT	1	
30	T0053524	Cap, Bearing	1	
31	T0054068	Grease Cap	1	
32	T0054437	Track Seal Cover	1	
33	TA01003	Cylinder, Hyd 1.50X5.50 SA	1	
34	TW000958	Wldmt (Mach), Track Alignment	1	
35	TW000960	Wldmt, LH Undercarriage-Mach	1	
36	TW000962	Wldmt (Mach), Track Tensioner	1	
37	TW000963	Weld, Pin	1	
38	TW000964	Weld, Pin	1	
39	ZERK-0.250-28	Zerk, 1/4-28	1	

Note:

1. [T=XXX] = Torque Expressed in ft-lbs (Use standard torque values from drawing T0000000 unless otherwise specified.)
2. * Items marked with an asterisk are items that are included in that particular part or assembly.

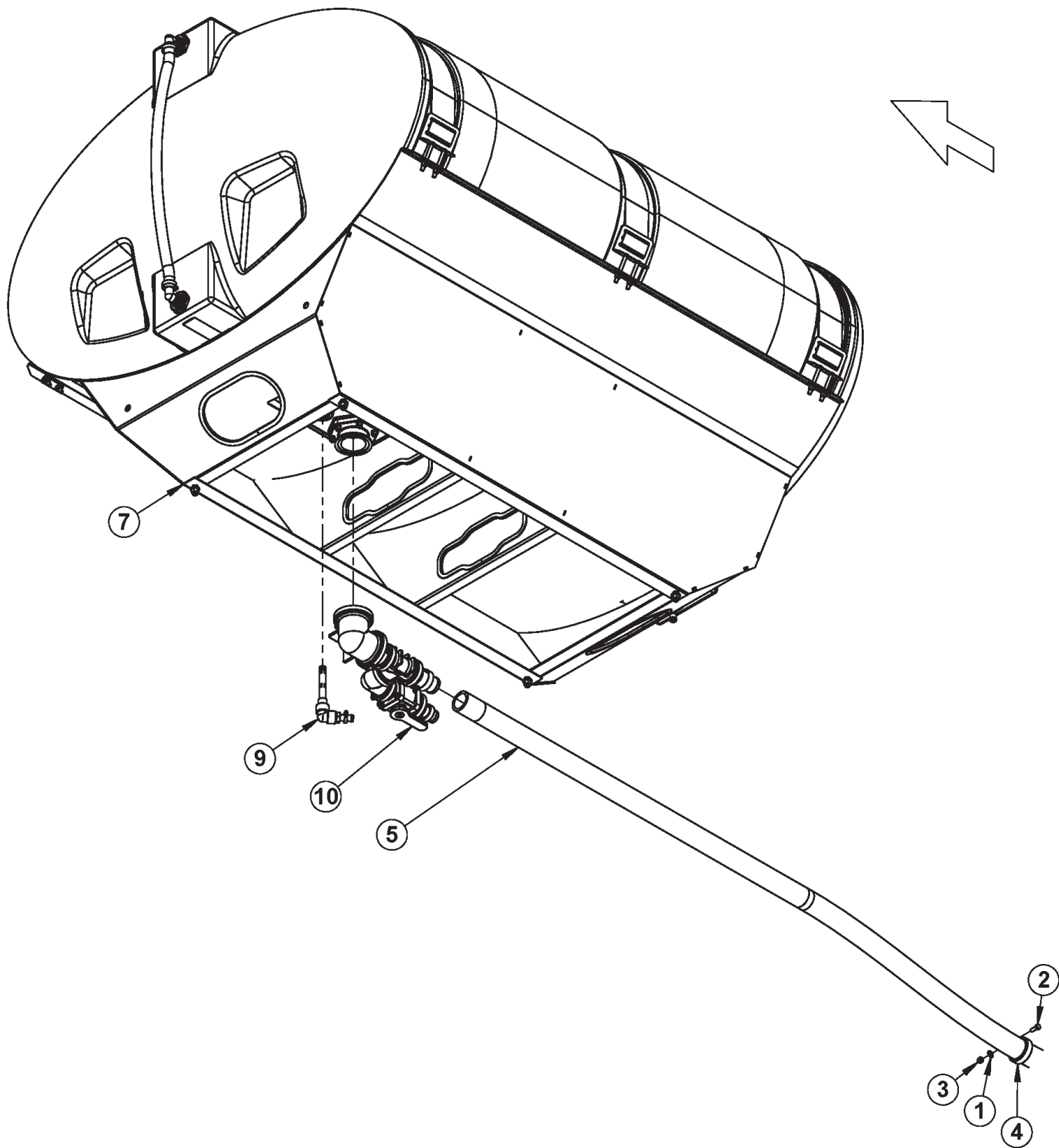


TA01638 Option, Steerable Undercarriage

ITEM	PART NUMBER	DESCRIPTION	QTY	TORQUE (ft-lbs)
1	T0055439	Cordset, M12-90°-2.0m	1	
2	TA01238	Cylinder, Hyd 3.50X7.25 Sens	1	

Note:

1. **T=XXX** = Torque Expressed in ft-lbs (Use standard torque values from drawing T0000000 unless otherwise specified).
2. * Items marked with an asterisk are items that are included in that particular part or assembly.

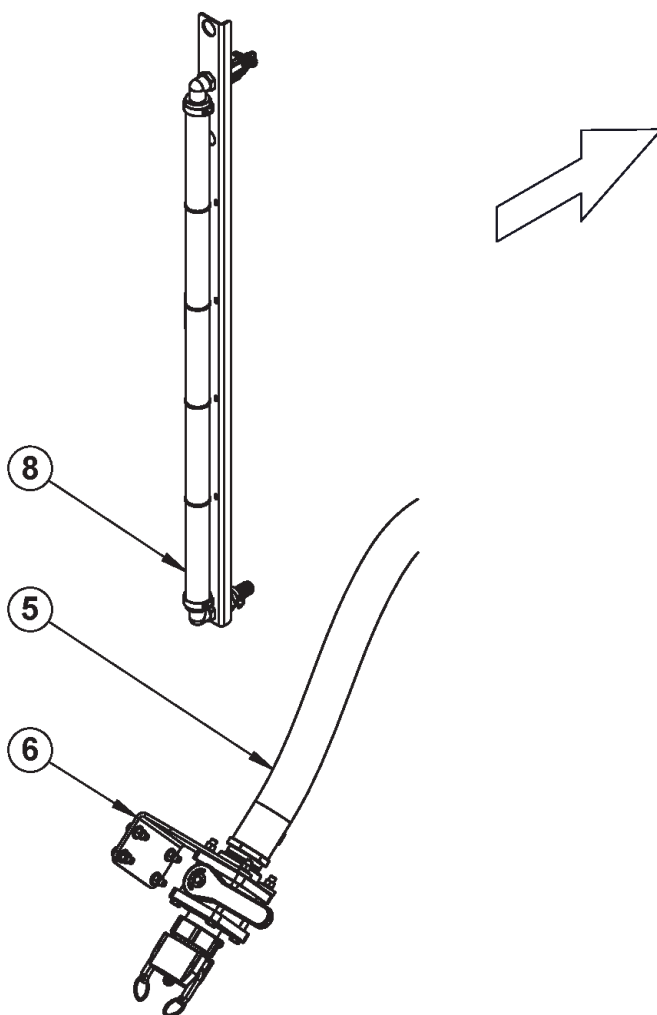


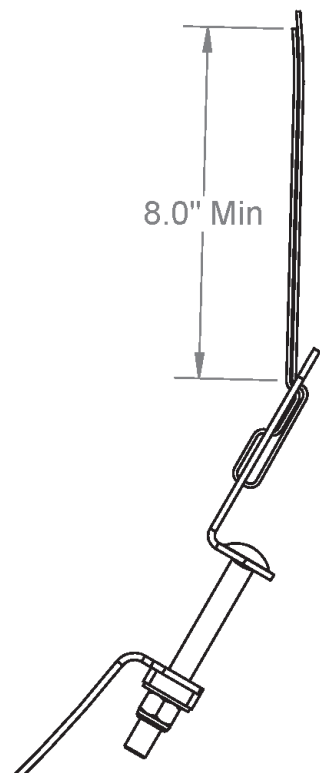
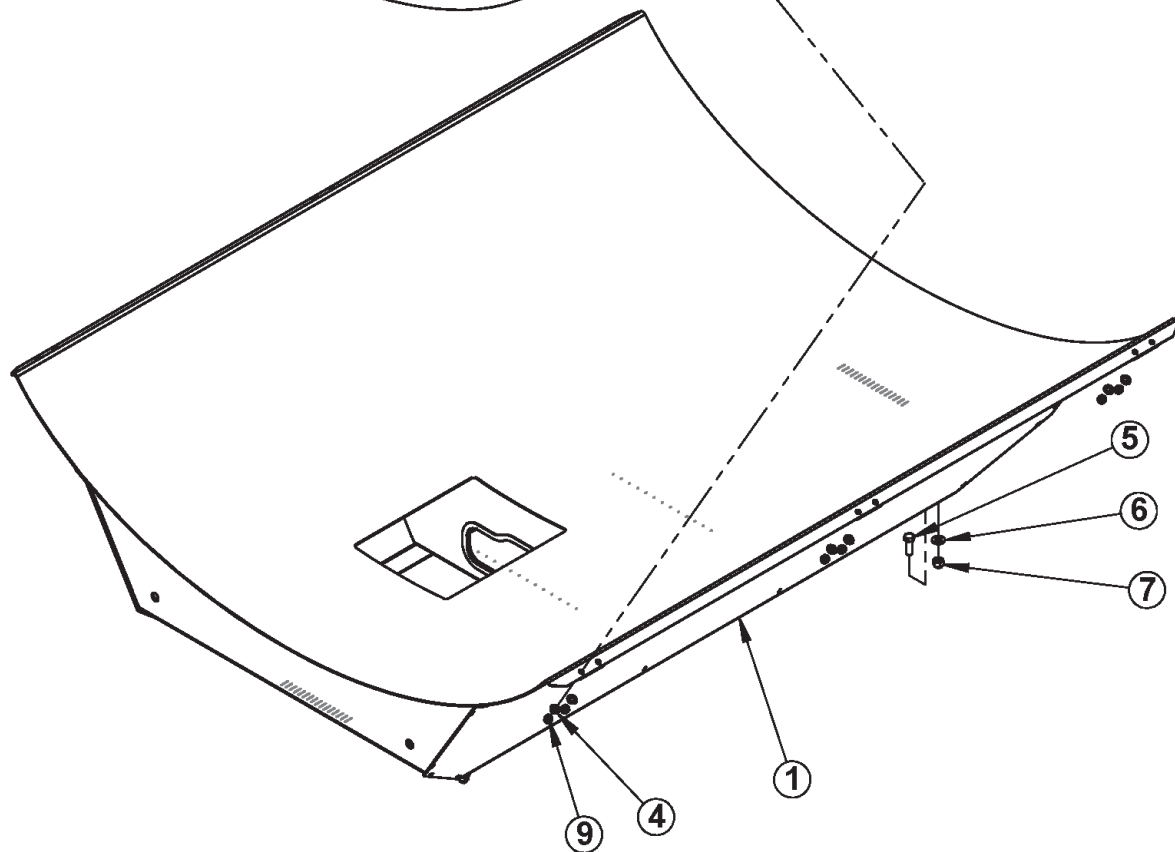
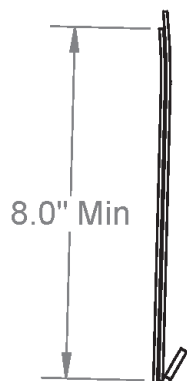
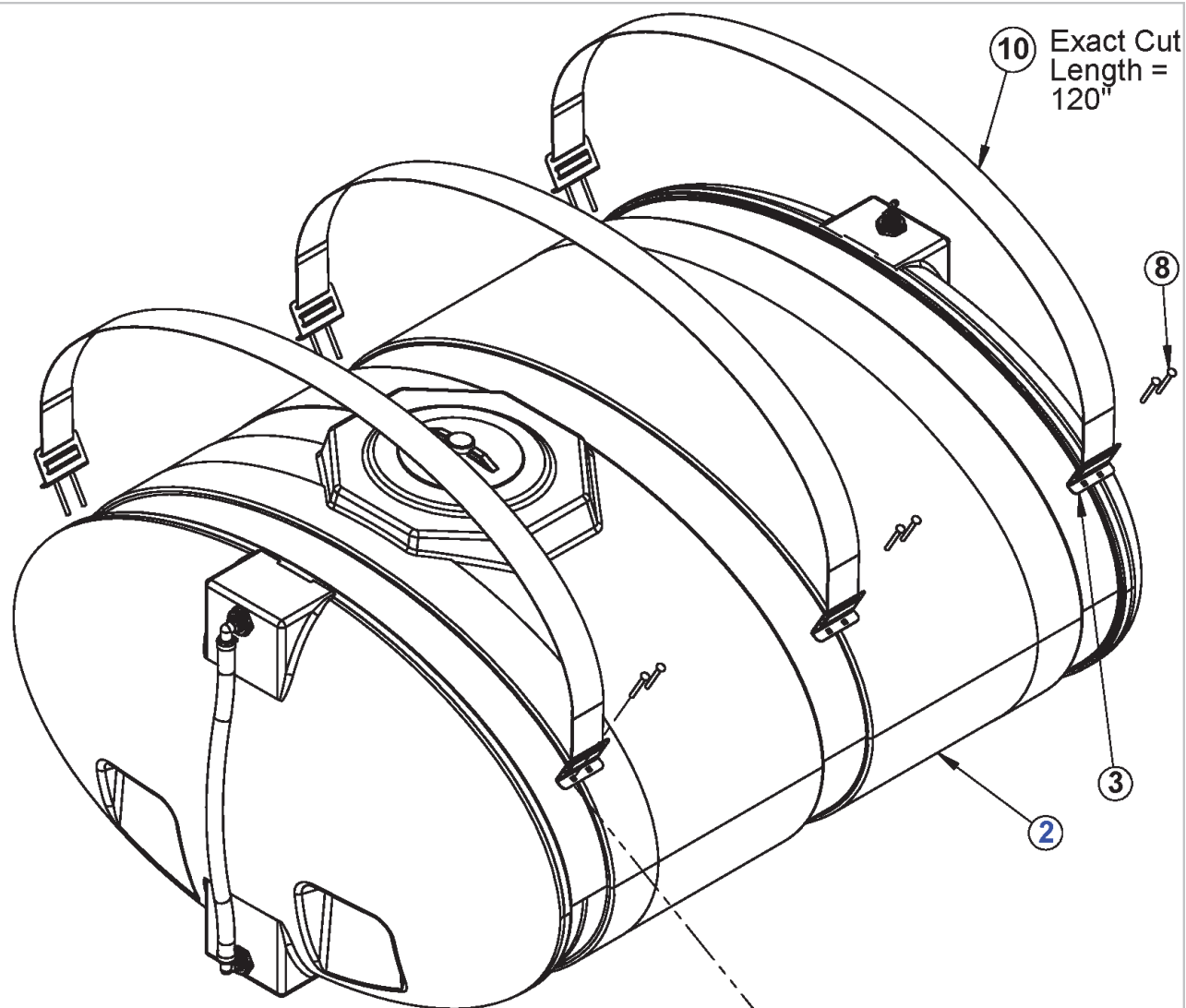
TA02040 Assy, 750 Gal Tank Assy w/2" Fill

ITEM	PART NUMBER	DESCRIPTION	QTY	TORQUE (ft-lbs)
1	FW-SAE-0.375Y	Washer, Flat SAE 3/8 YZ	1	
2	HB-0.375-16X1.00Y8	Bolt, Hex Hd 3/8-16x1 YZ8	1	
3	NLNUT-0.375-16Y8	Nylon Lock Nut, 3/8-16 YZ8	1	
4	PCLMP-3.00x.406	Clamp, Tube 3x13/32	1	
5	T0056132	Hose, Suction Ø2.00" x 233"	1	
6	TA00693	Assy, Liquid Fert Mount	1	
7	TA01002	Assy, 750 Gal Tank and Base	1	
8	TA01541	Assy, Rear Liq Fert Sight Gauge	1	
9	TA01942	Assy, Tank Agitator	1	
10	TA02042	Assy, 2" Tank Fill Manifold	1	

Note:

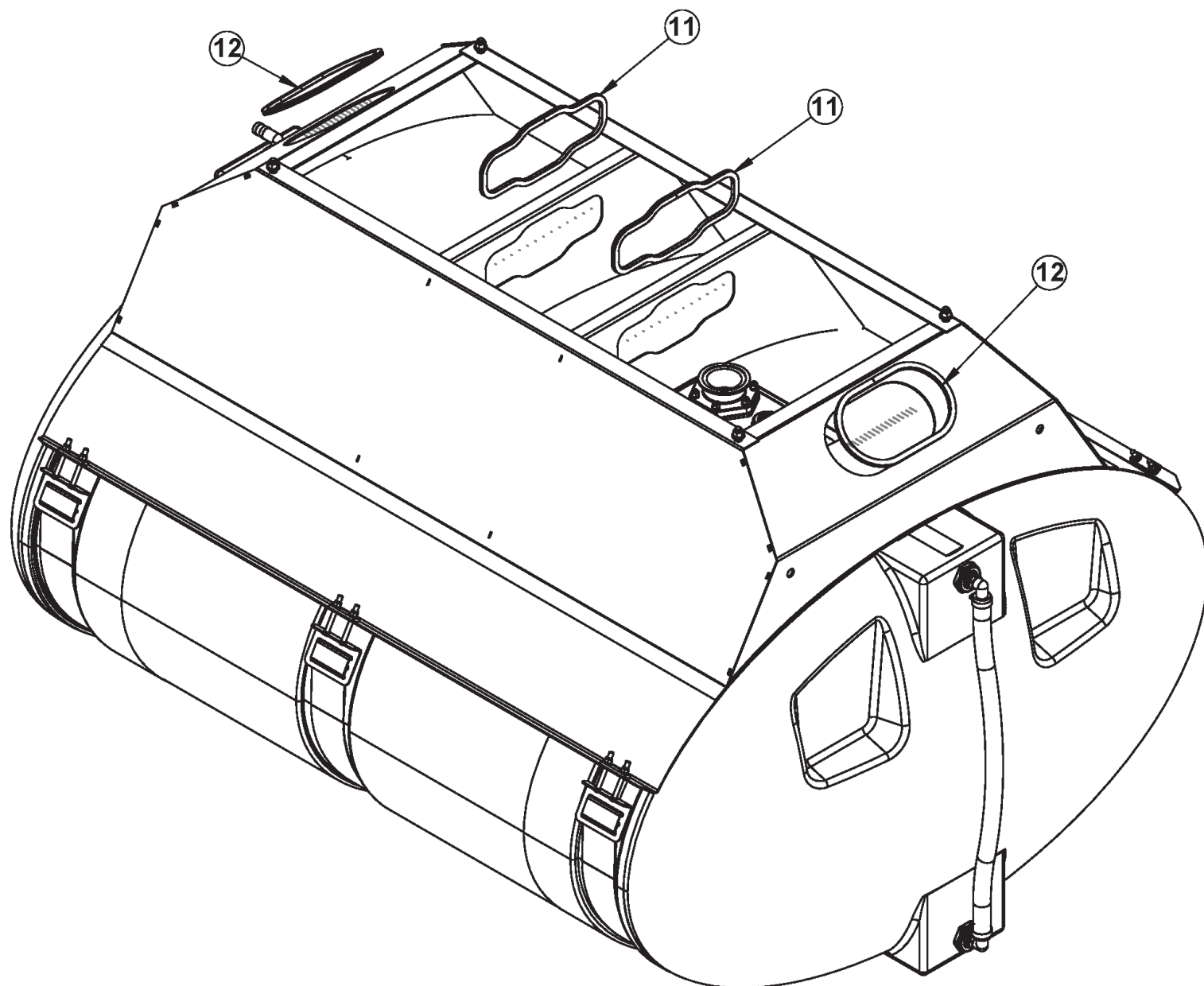
1. **T=XXX** = Torque Expressed in ft-lbs (Use standard torque values from drawing T0000000 unless otherwise specified.
2. * Items marked with an asterisk are items that are included in that particular part or assembly.

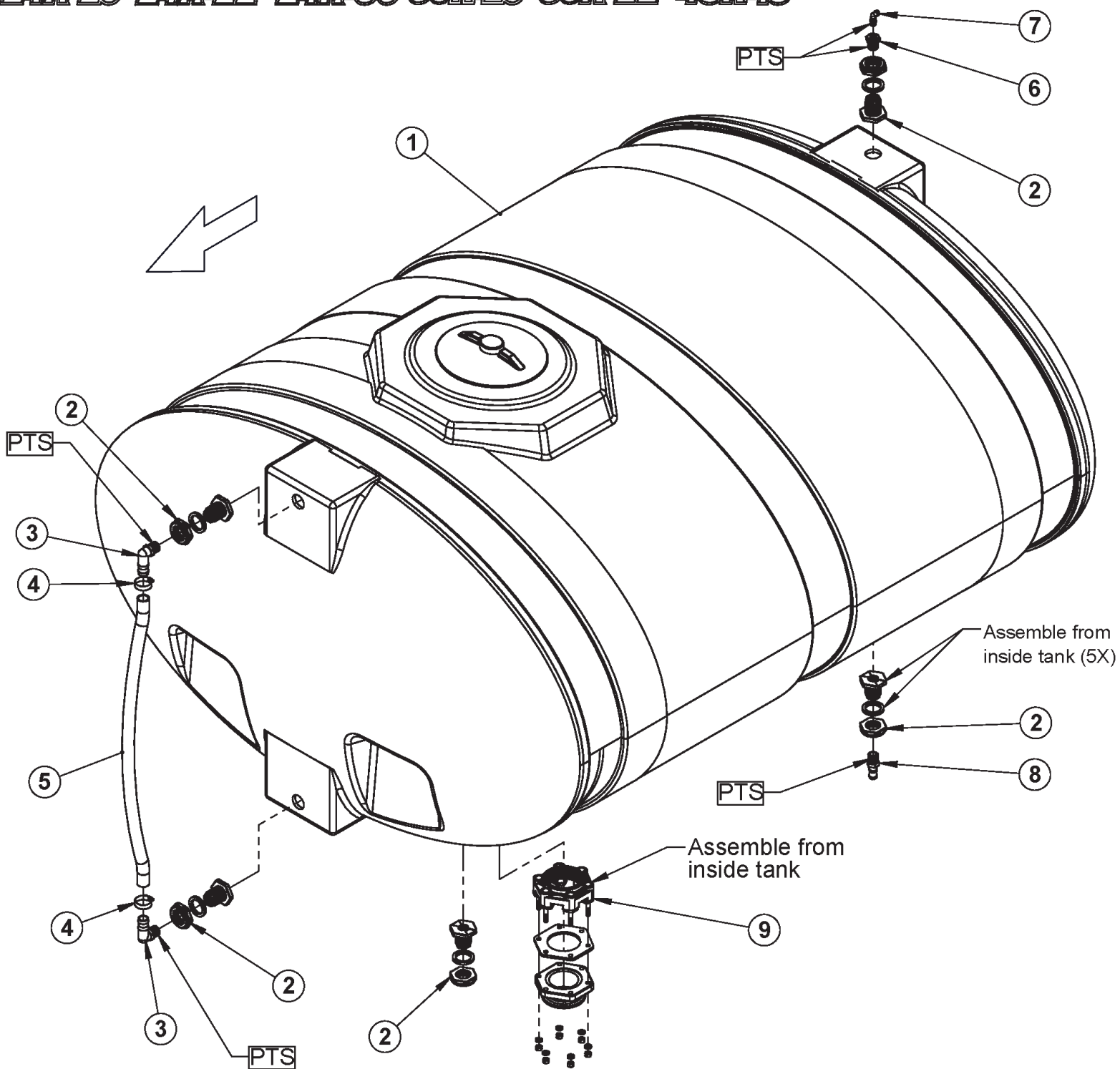




TA01002 Assy, 750 Gal Tank and Base

ITEM	PART NUMBER	DESCRIPTION	QTY.	TORQUE (ft-lbs)
1	TW000937	Tank Base, 750GA Fertilizer	1	
2	TA01004	Assy, Fert Tank 750 Gal	1	
3	T0053517	Brkt, Tank Strap	6	
4	FW-SAE-0.375Y	Washer, Flat SAE 3/8" YZ	12	
5	HB-0.500-13X1.50Y8	Bolt, Hex Hd 1/2-13x1-1/2 YZ8	4	
6	FW-SAE-0.500Y	Washer, Flat SAE - 1/2-YZ	4	
7	NLNUT-0.500-13Y8	Nut, Nylock 1/2-13 YZ8	4	
8	CB-0.375-16X4.00C5	Bolt, RHSN 3/8-16x4-CZ5	12	
9	NLNUT-0.375-16Y8	Nut, Nylock 3/8-16 YZ8	12	
10	T0055788	Strap, Nylon Tank 4" (per ft)	30	
11	T0053845	U-Trim, 3/16x17/32 (per ft)(34")	6	
12	T0053845	U-Trim, 3/16x17/32 (per ft)(30.4")	6	



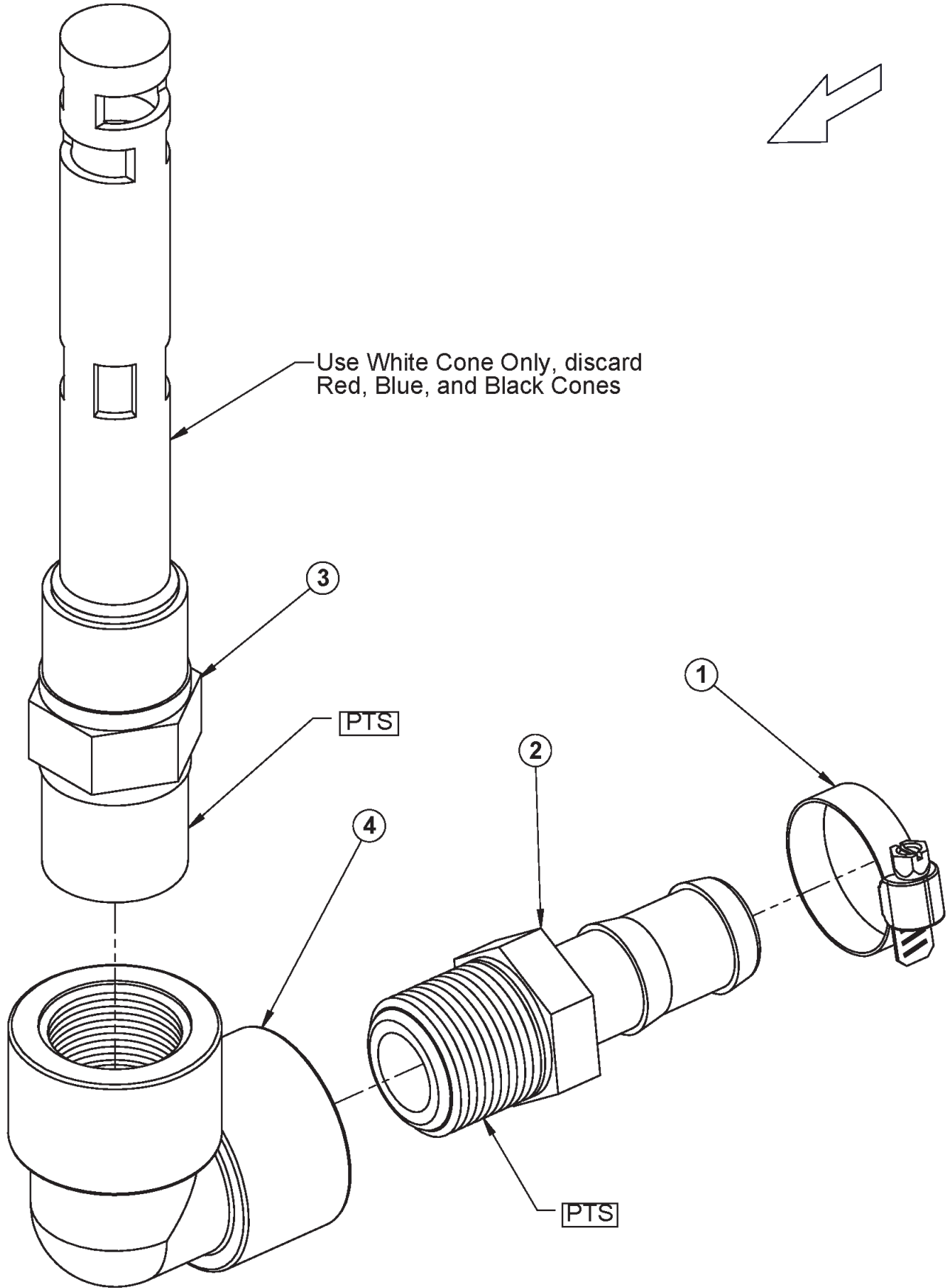


TA01004 Assy, Fert Tank 750 Gal

ITEM	PART NUMBER	Vendor PN	DESCRIPTION	QTY.
1	T0053327	ET750-GRAY	Tank, 750 GL Elliptical	1
2	T0051176	TF075	Ftng, 3/4" Bulkhead Tank	5
3	T0051179	HB075/100-90	.75" MPT to 1.00" Hose Barb-90	2
4	HCLMP-SAE-16SS	62012	Hose Clamp, SAE #16 SS	2
5	T0053360	SGH100	Sight Gauge Hose	1
6	T0055126	RB075-025	Fitting, Reducer Bushing 1/4 X 3/4 MPT	1
7	T0052453	0451579	Elbow 1/4" PTC to 1/4" MPT	1
8	T0051512	HB075	3/4" MPT x 3/4" HB	1
9	T0053678	MBF300BD	Tank Flg,3" Man Boltd-Bttm Drn	1

Note:

1. **T=XXX** = Torque Expressed in ft-lbs (Use standard torque values from drawing T0000000 unless otherwise specified.
2. * Items marked with an asterisk are items that are included in that particular part or assembly.
3. **PTS**= Apply Pipe Thread Sealant, use Rectorseal #21 or equivalent.



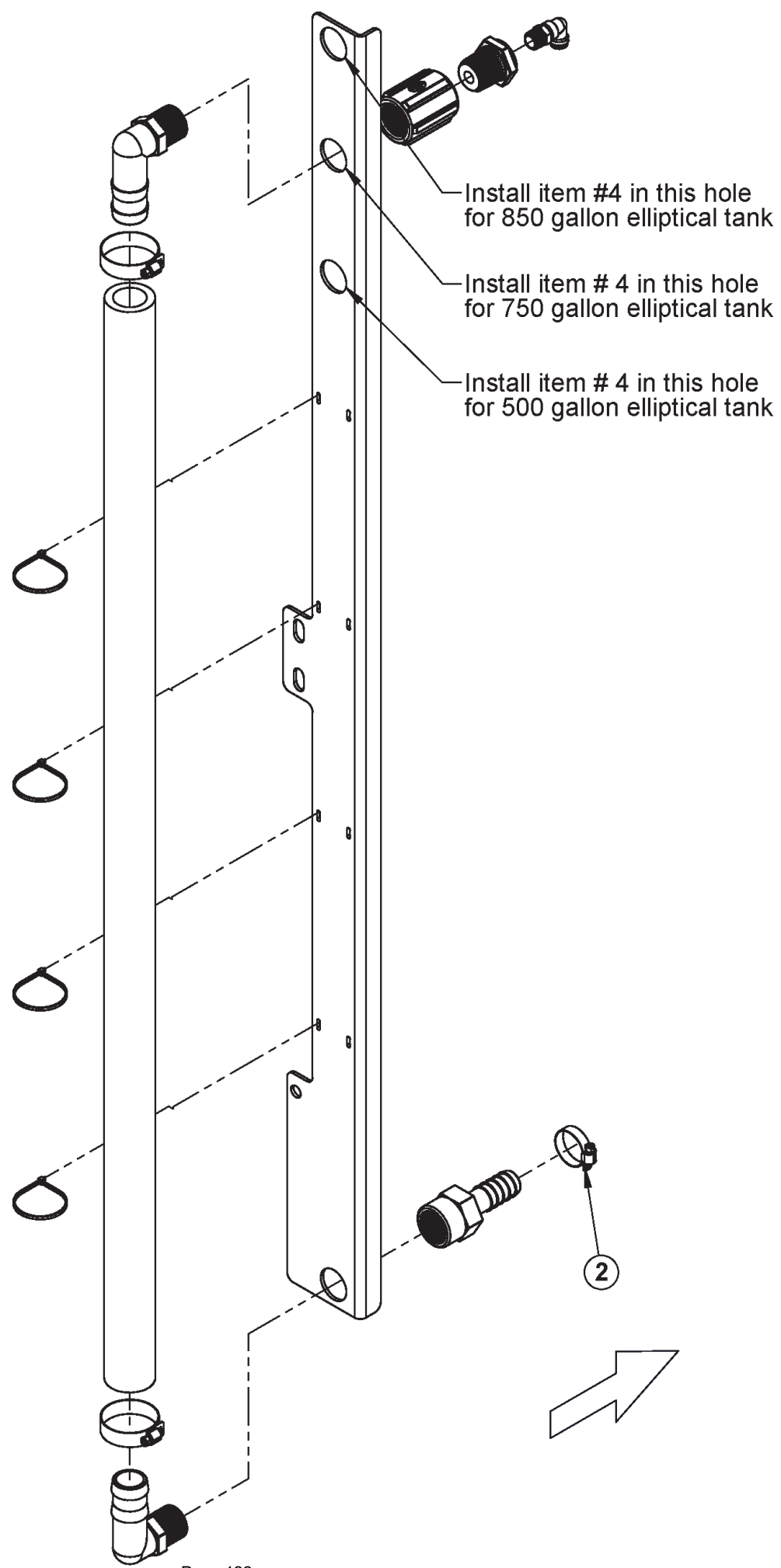
TA01942 Assy, Tank Agitator

ITEM	PART NUMBER	DESCRIPTION	QTY	TORQUE (ft-lbs)
1	HCLMP-SAE-12SS	Hose Clamp, SAE #12-SS	1	
2	T0051512	3/4" MPT x 3/4" HB	1	
3	T0051637	Agitator, Tank	1	
4	T0052428	Elbow, 3/4FPT X 3/4FPT	1	

Note:

1. **T=XXX** = Torque Expressed in ft-lbs (Use standard torque values from drawing T0000000 unless otherwise specified).
2. * Items marked with an asterisk are items that are included in that particular part or assembly.
3. PTS = Apply Pipe Thread Sealant, use Rectorseal #21 or equivalent.

See Note # 3



TA01541 Assy, Rear Liq Fert Sight Gauge (750 Gallon Elliptical Tank Option)

ITEM	PART NUMBER	DESCRIPTION	QTY.	TORQUE (ft-lbs)
1	CBLTIE-0.14X5.50	Cable Tie,.14X5.5 1.3MaxBundle	4	
2	HCLMP-SAE-12SS	Hose Clamp, SAE #12-SS	1	
3	HCLMP-SAE-16SS	Clamp, Hose-SAE-#16-SS	2	
4	T0051179	.75" MPT to 1.00" Hose Barb-90	2	
5	T0051642	3/4" FPT x 3/4" Hose Barb SCH 40	1	
6	T0052453	Elbow 1/4" PTC to 1/4" MPT	1	
7	T0055112	Plate, Sight Gauge Bracket	1	
8	T0055115	Hose, Sight Gauge Clear 38.80"	1	
9	T0055120	Fitting, Coupling 3/4"	1	
10	T0055126	Fitting, Reducer Bushing 1/4 X 3/4 MPT	1	

TA01541 Assy, Rear Liq Fert Sight Gauge (500 Gallon Elliptical Tank Option)

ITEM	PART NUMBER	DESCRIPTION	QTY.	TORQUE (ft-lbs)
8	T0055130	Hose, Sight Gauge Clear 34.45"	1	

** All parts are the same as above with the exception of the sight tube hose.

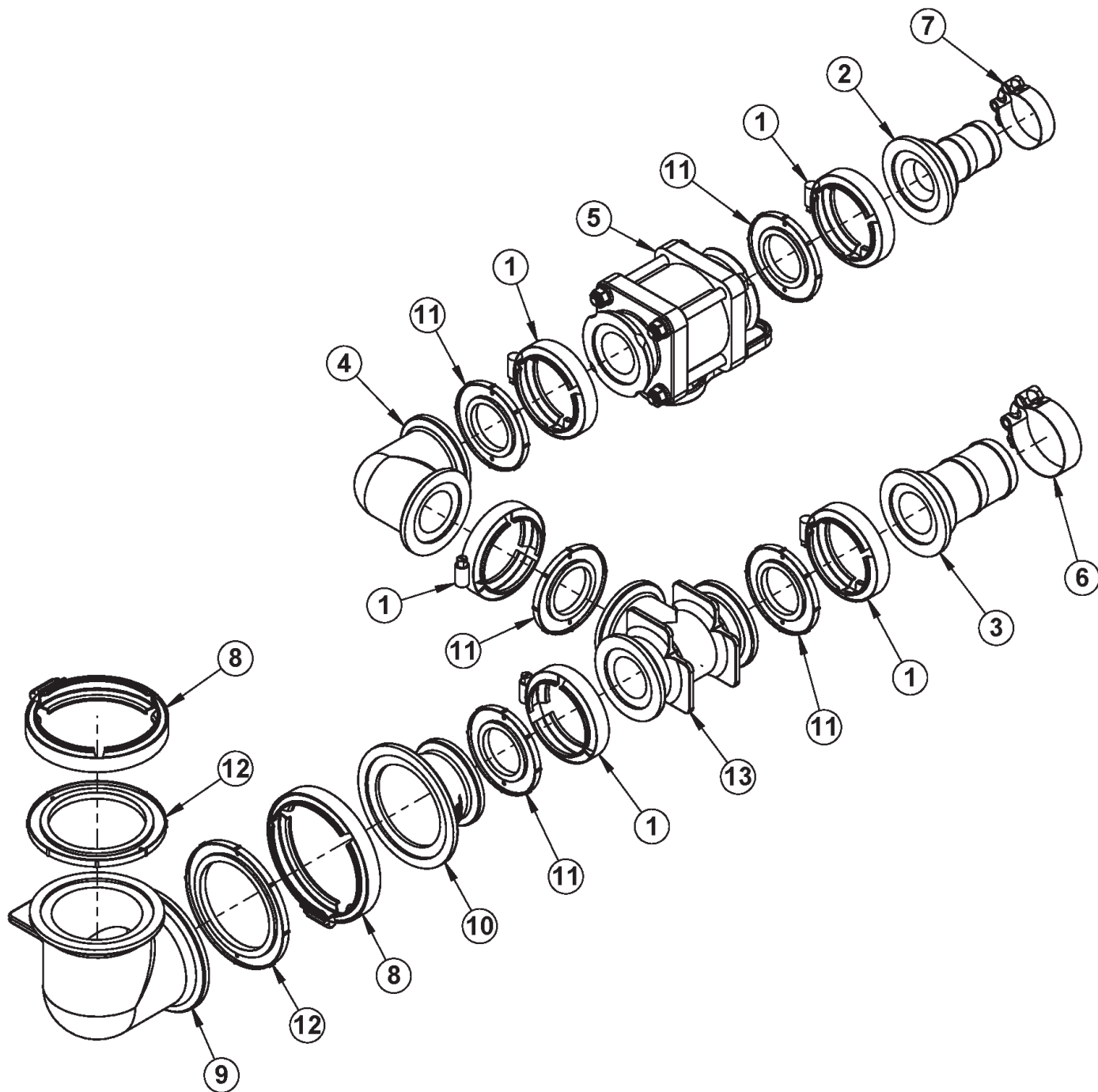
TA01541 Assy, Rear Liq Fert Sight Gauge (850 Gallon Elliptical Tank Option)

ITEM	PART NUMBER	DESCRIPTION	QTY.	TORQUE (ft-lbs)
8	T0056082	Hose, Sight Gauge Clear 42.80"	1	

** All parts are the same as above with the exception of the sight tube hose.

Note:

1. **T=XXX** = Torque Expressed in ft-lbs (Use standard torque values from drawing T0000000 unless otherwise specified.
2. * Items marked with an asterisk are items that are included in that particular part or assembly.
3. Cut clear hose to length of 38.80" for 750 Elliptical Tank, 34.45" for 500 Elliptical Tank, and 42.80" for 850 Elliptical Tank.

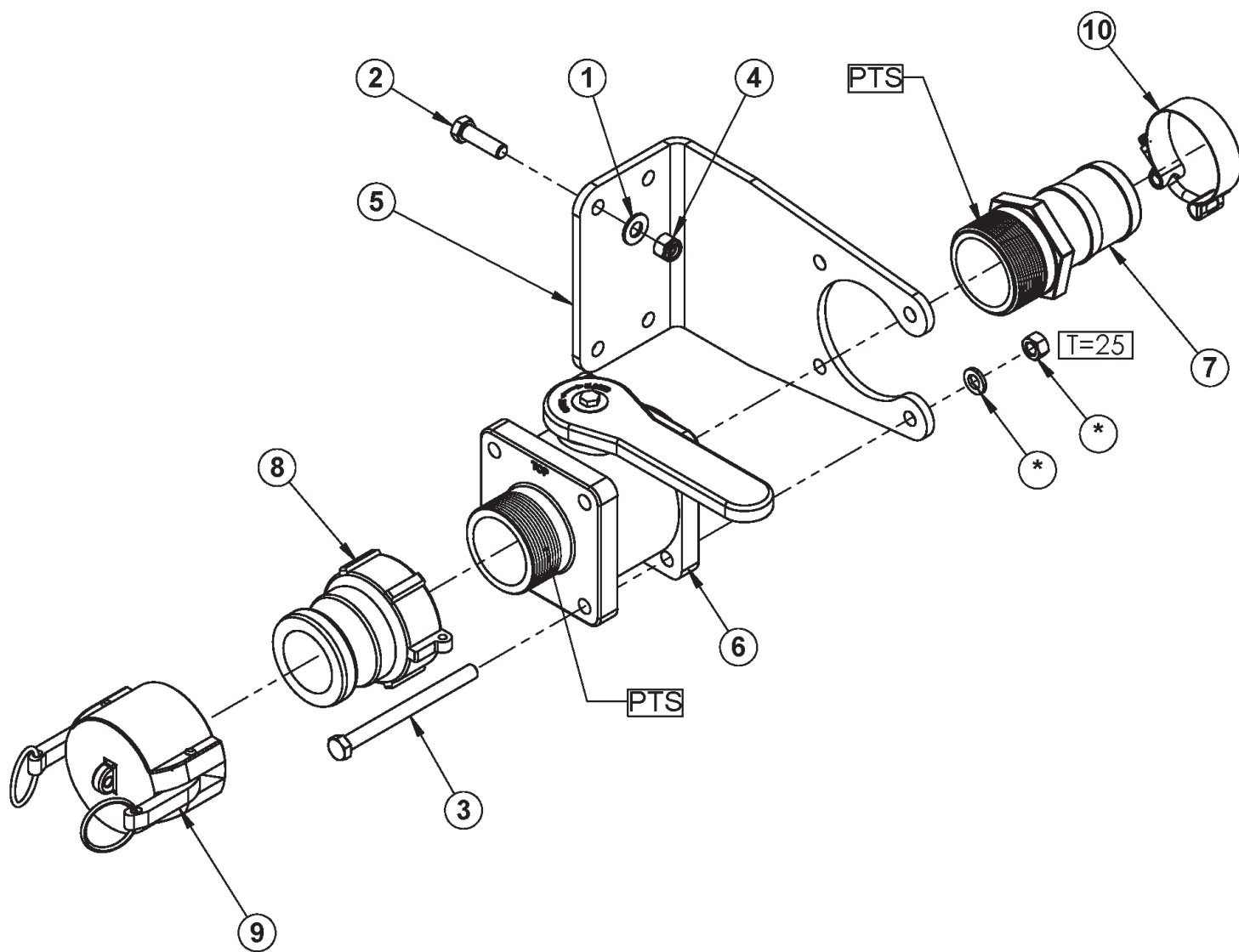


TA02042 Assy, 2" Tank Fill Manifold

ITEM	PART NUMBER	DESCRIPTION	QTY	TORQUE (ft-lbs)
1	T0051560	Clamp 2" Flange	5	
2	T0051598	Fitting, 2" Flange x 1.5" HB	1	
3	T0051612	2" Flange x 2" HB	1	
4	T0051614	2" x 2" 90 deg Flange	1	
5	T0051615	Valve, Ball 2" Manifold	1	
6	T0051639	T-Bolt Clamp 2.5"	1	
7	T0051640	T-Bolt Clamp 2"	1	
8	T0053408	Clamp, 3" Hi Torque	2	
9	T0053421	Coupling, 3" Manifold X 90 Deg	1	
10	T0053424	Ftng, M300 X M200 Coupling	1	
11	T0053630	Gasket, Univ Flanged 1.5" EPDM	5	
12	T0053635	Gasket, Univ Flanged 3.0" EPDM	2	
13	T0055110	Fitting, Manifold Tee, 2"	1	

Note:

1. **T=XXX** = Torque Expressed in ft-lbs (Use standard torque values from drawing T0000000 unless otherwise specified.
2. * Items marked with an asterisk are items that are included in that particular part or assembly.

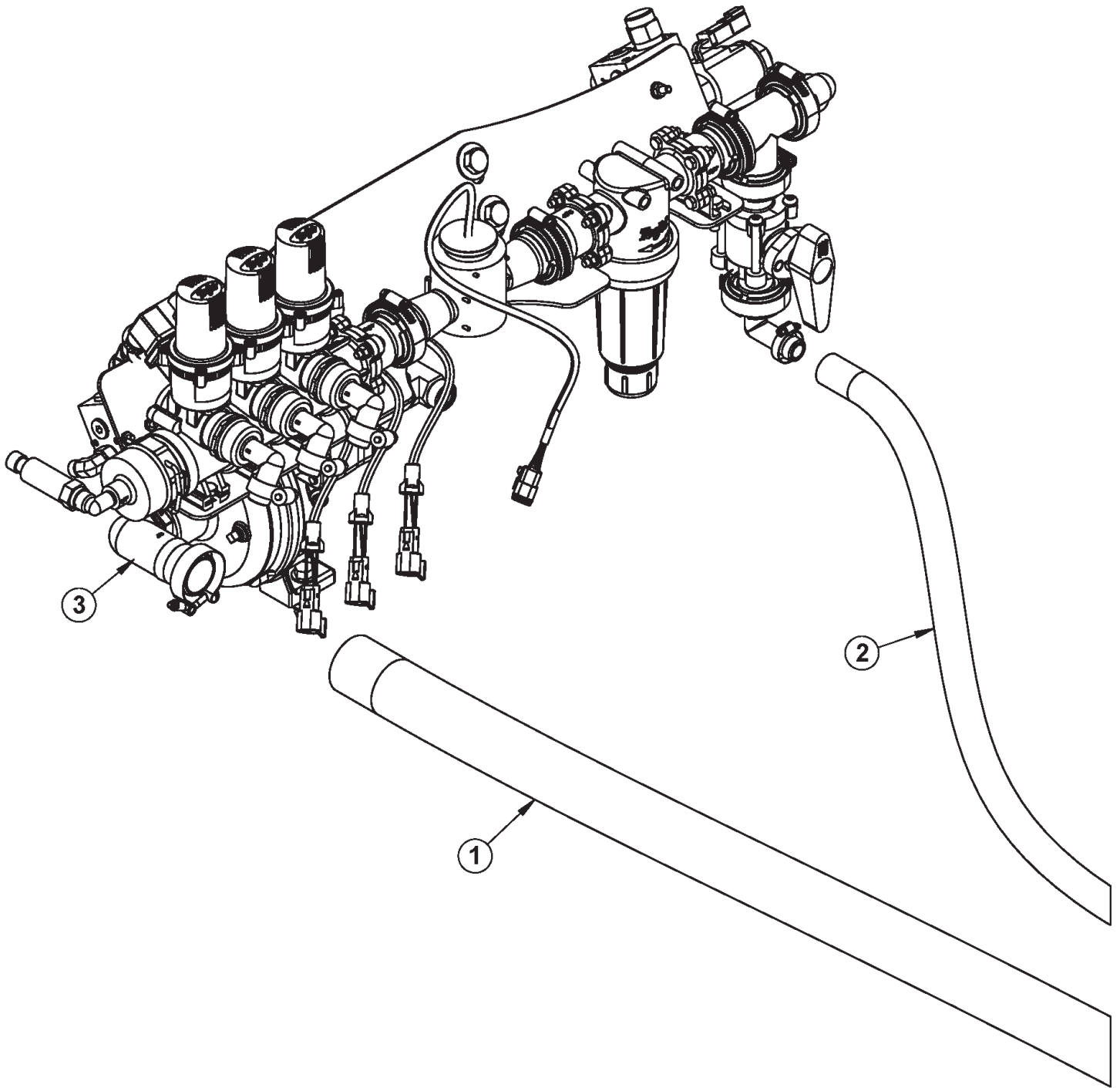


TA00693 Assy, Liquid Fert Mount

ITEM	PART NUMBER	DESCRIPTION	QTY	TORQUE
1	FW-SAE-0.375Y	Washer, Flat SAE 3/8" YZ	4	
2	HB-0.375-16X1.25Y8	Bolt, Hex Hd 3/8-16x1-1/4 YZ8	4	
3	HB-0.375-16X4.50SS	Bolt, Hex Hd 3/8-16x4-1/2-SS	4	
4	NLNUT-0.375-16Y8	Nut, Nylock 3/8-16 YZ8	4	
5	T0050611	Liquid Fertilizer Fill Valve Mt	1	
6	T0051513	Valve, Ball 2" Full Port	1	
7	T0051514	2" MPT x 2" HB	1	
8	T0051515	2" Male Adaptor FPT	1	
9	T0051516	Cap 2"	1	
10	T0051639	T-Bolt Clamp 2.5"	1	

Note:**T** = Torque Expressed in-lbs**PTS**= Apply Pipe Thread Sealant, use Rectorseal #21 or equivalent.

* Items marked with an asterisk, are included with P/N T0051513.

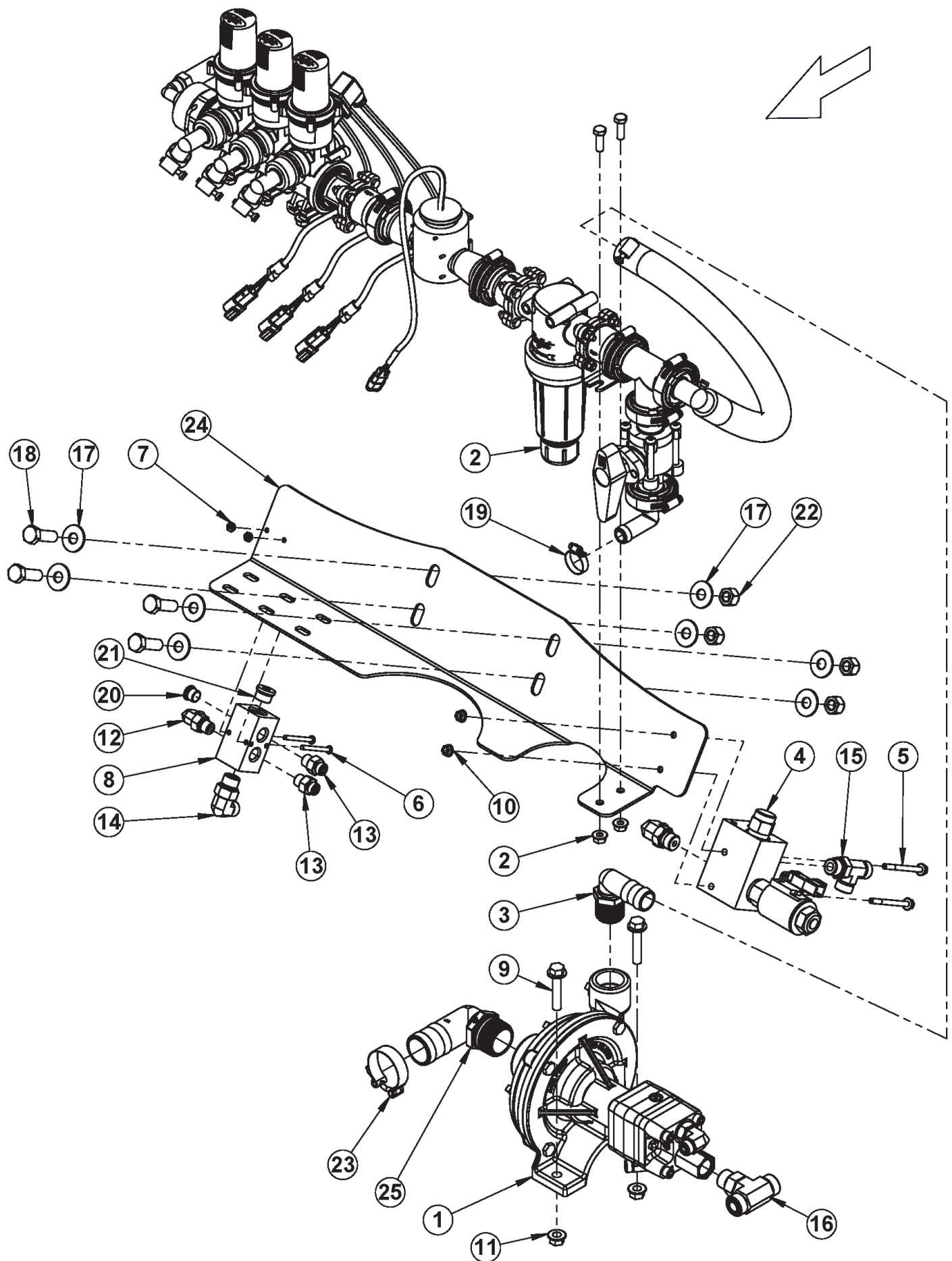


TA02045 Assy, Fertilizer Pump 2000

ITEM	PART NUMBER	DESCRIPTION	QTY	TORQUE (ft-lbs)
1	T0056128	Hose, Suction Ø1.50" x 58"	1	
2	T0056130	Hose, Ag Spray 200 Ø3/4" x 73"	1	
3	TA01936	Assy, Fert Pump/ Section Valves	1	

Note:

1. **T=XXX** = Torque Expressed in ft-lbs (Use standard torque values from drawing T0000000 unless otherwise specified.
2. * Items marked with an asterisk are items that are included in that particular part or assembly.

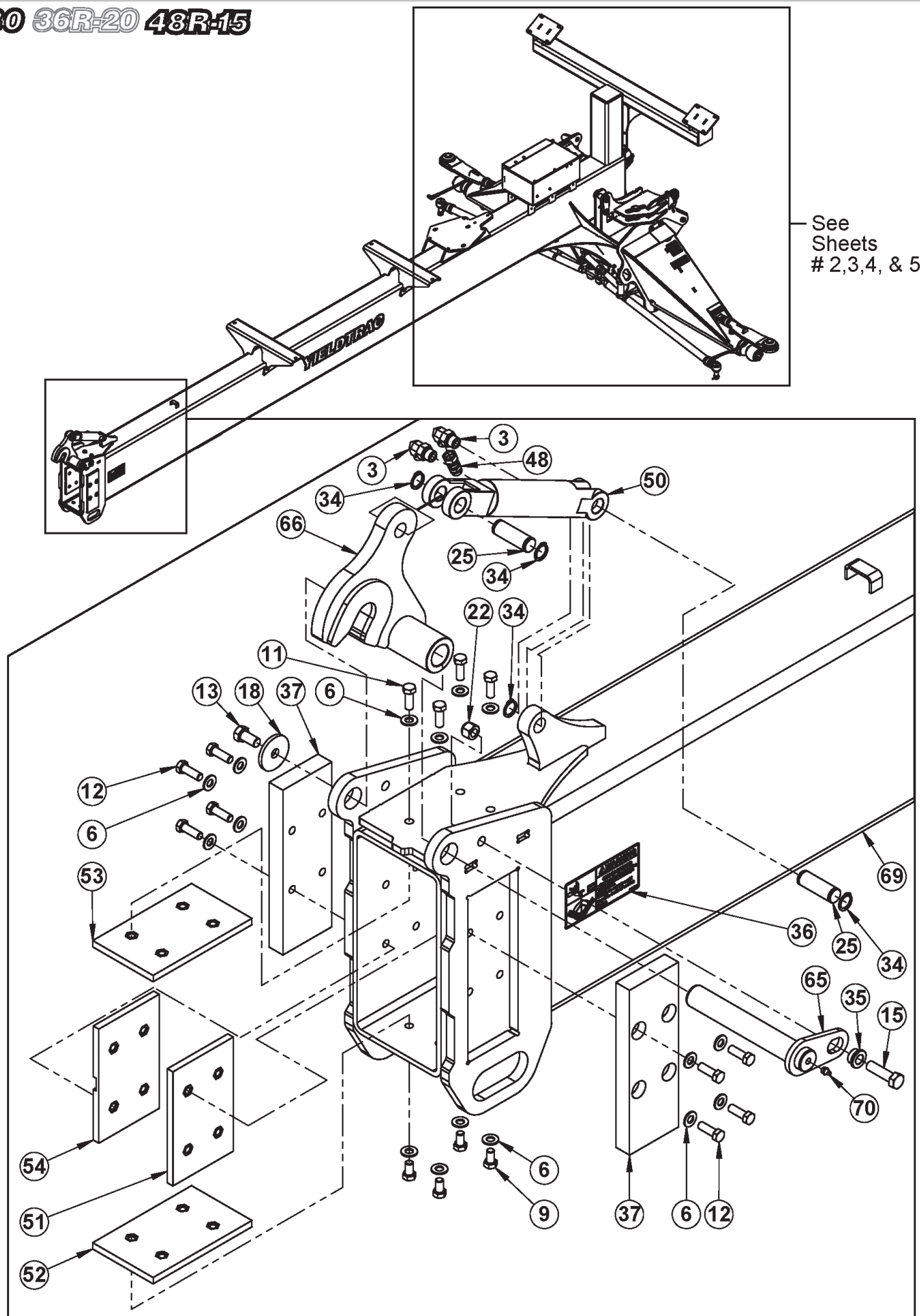


TA01936 Assy, Fert Pump/ Section Valves

ITEM	PART NUMBER	DESCRIPTION	QTY	TORQUE (ft-lbs)
1	47698761	Pump, Fertilizer	1	
2	47788907	Assy, Fertilizer Manifold	1	
3	47796392	Hose Barb	1	
4	47898204	Valve, Fertilizer Control	1	
5	87023526	Bolt	2	
6	90-12-3682	Screw, Pan Head Phil #10-24 x 2	2	
7	90-13-0051	Nut, Hex #10-24 Gr5 ZP	2	
8	90-36-0021	Manifold, 08in to 06 out 4 ports at 180	1	
9	9804264	Bolt	2	
10	9804276	Nut	2	
11	9804278	Nut	2	
12	AD-04MFS-06MB-90	AD-04MFS-06MB-90	1	
13	AD-04MFS-06MB	AD-04MFS-06MB	2	
14	AD-06MFS-08MB-90	AD-06MFS-08MB-90	1	
15	AD-08MFS-08MB-08MFS	AD-08MFS-08MB-08MFS	1	
16	AD-10MFS-10MFS-10MB	AD-10MFS-10MFS-10MB	1	
17	FW-USS-0.438Y	Washer, Flat-USS 7/16-YZ	8	
18	HB-0.500-13X1.50Y8	Bolt, Hex Hd 1/2-13x1-1/2 YZ8	4	
19	HCLMP-SAE-12SS	Hose Clamp, SAE #12-SS	1	
20	HEXPLUG-06MB-HLW	06MB HOLLOW HEX PLUG	1	
21	HEXPLUG-08MB-HLW	08MB HOLLOW HEX PLUG	1	
22	NLNUT-0.500-13Y8	Nut, Nylock 1/2-13 YZ8	4	
23	T0051640	T-Bolt Clamp 2"	1	
24	T0055372	Mount, Fertilizer Manifold	1	
25	T0055791	1-1/4 NPT x 1-1/2 x 90 Hose Barb	1	
26	TA01939	Hose Kit, Fertilizer Control	1	

Note:

1. [T=XXX] = Torque Expressed in ft-lbs (Use standard torque values from drawing T0000000 unless otherwise specified.
2. * Items marked with an asterisk are items that are included in that particular part or assembly.

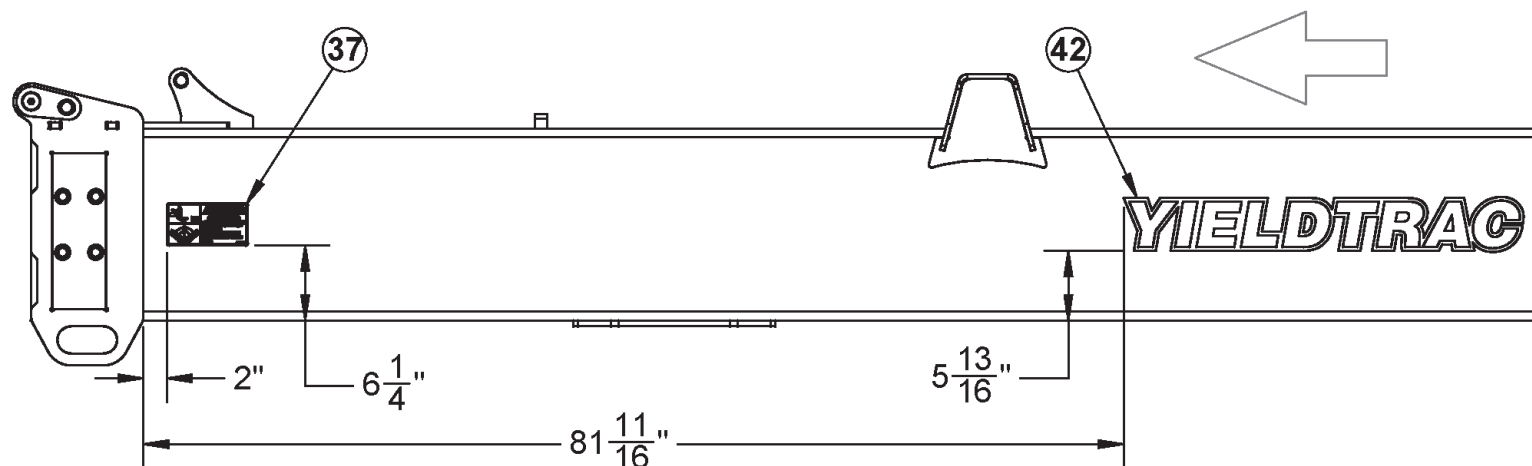
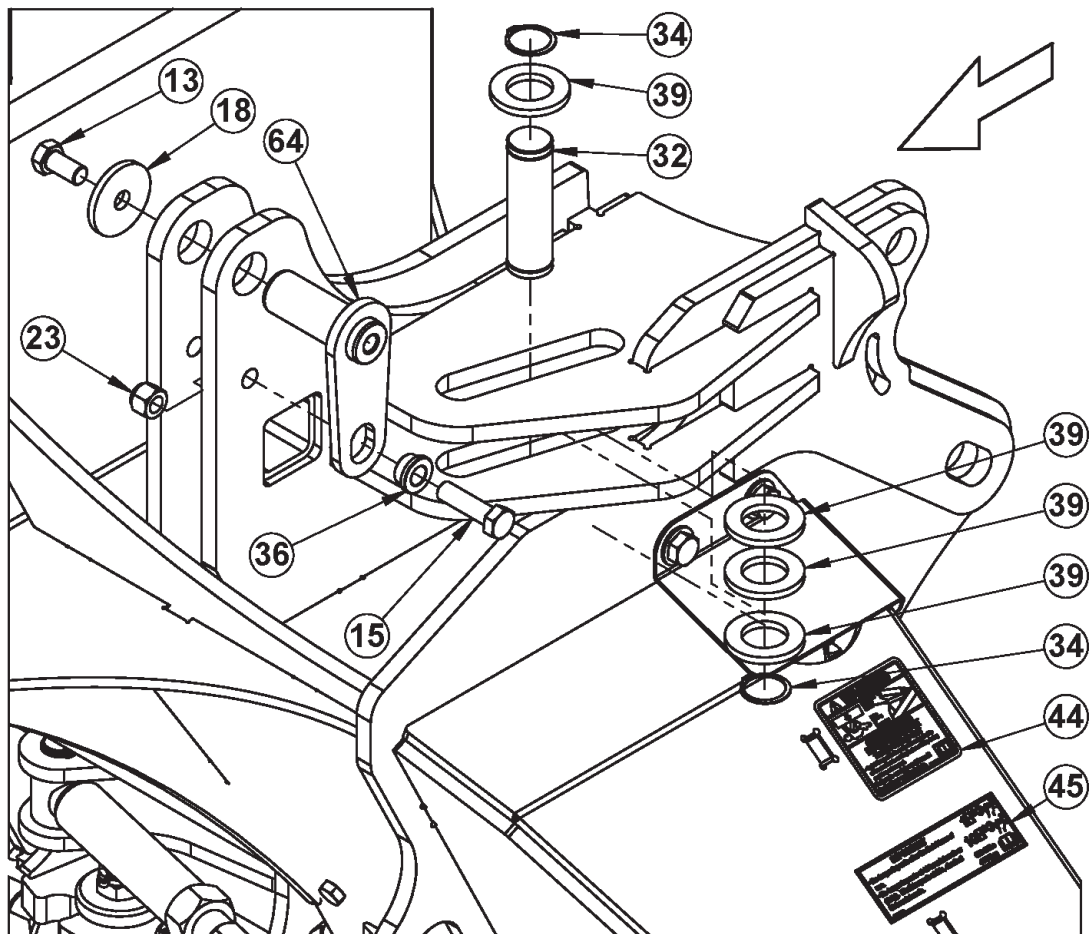


TA01881 Assy, 60/66' Main Frame (120") (Sheet 1 of 5)

ITEM	PART NUMBER	DESCRIPTION	QTY.	TORQUE (ft-lbs)
3	AD-06MFS-08MB-90	AD-06MFS-08MB-90	2	
6	FW-SAE-0.500Y	Washer, Flat SAE - 1/2-YZ	18	
9	HB-0.500-13X0.88Y8	Bolt, Hex Hd 1/2-13x7/8 YZ8	4	
11	HB-0.500-13X1.38Y8	Bolt, Hex Hd 1/2-13x1-3/8 YZ8	4	
12	HB-0.500-13X1.50Y8	Bolt, Hex Hd 1/2-13x1-1/2 YZ8	8	
13	HB-0.625-11X1.25Y8	Bolt, Hex Head-5/8-11x1.25-YZ8	3	
15	HB-0.625-11X2.25Y8	Bolt, Hex Head-5/8-11x2.25-YZ8	5	
18	HDWSH-0.64X2.50Y	HD Washer 0.64 x 2.50	3	
22	NLNUT-0.625-11Y8	Nut, Nylock-5/8-11-YZ8	10	
25	PIN-1.000X2.63Y	PIN-1.000X2.63Y	2	
34	SRING-EXT-HD-1.00Y	SRING-EXT-HD-1.00Y	10	
35	T0050854	Anti Rotation Insert	6	
36	T0051588	Decal, Warning - Crush Hazard	2	
37	T0052579	Slider Block	2	
48	T0055981	AD-06MFS-06FST w/ORF	1	
50	TA00632	Cylinder, Hyd 2.00X4.00	1	
51	TA00801	Assy, Slider	1	
52	TA00801	Assy, Slider	1	
53	TA00801	Assy, Slider	1	
54	TA00843	Assy, Slider	1	
65	TW001050	Pin Weldment	1	
66	TW001150	Wldmt, Hitch Latch	1	
69	TW001428	Wldmt, 60/66' Main Frame (120")	1	
70	ZERK-0.125-27-NPT	Zerk,-1/8-27-NPT	1	

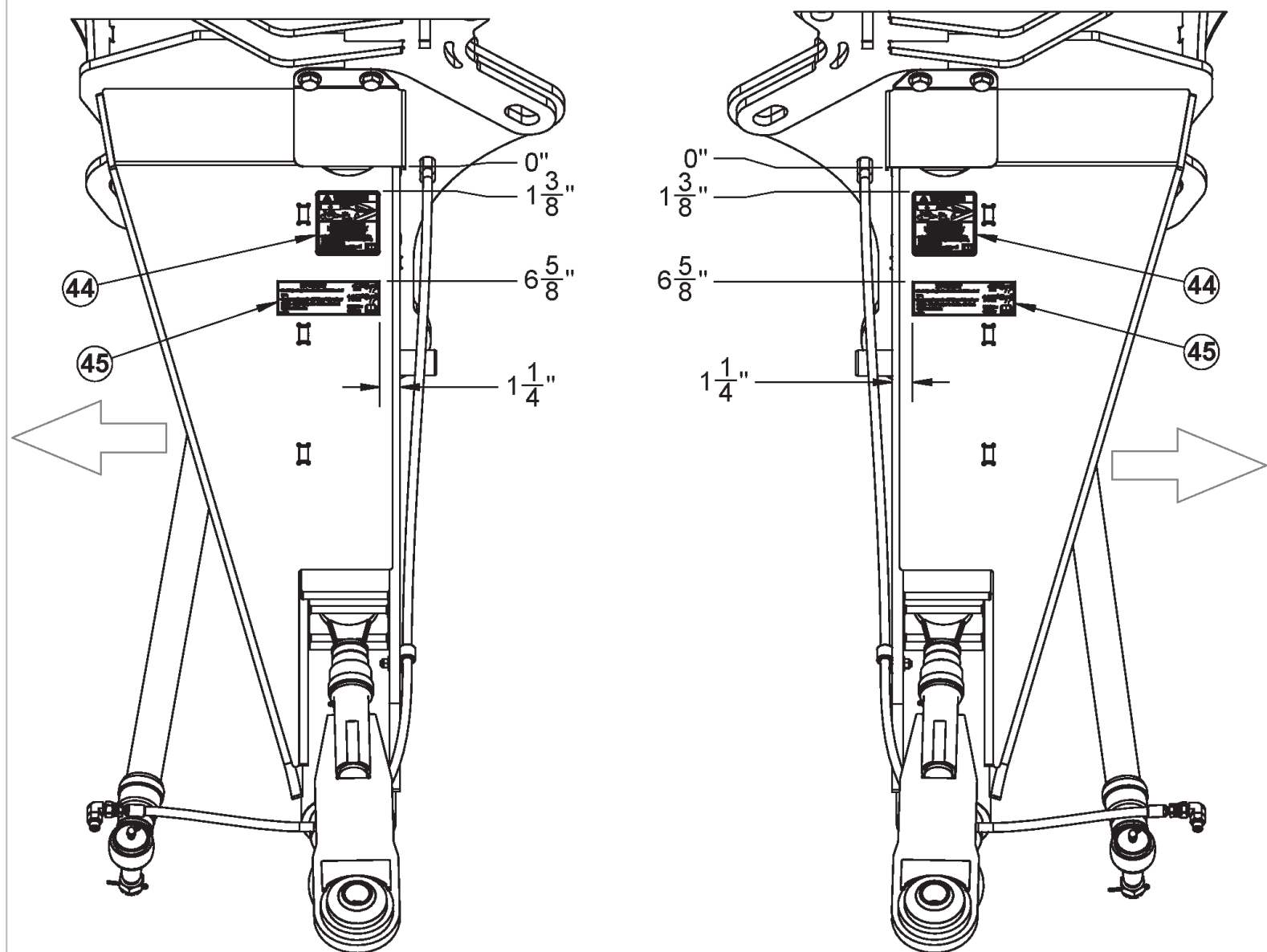
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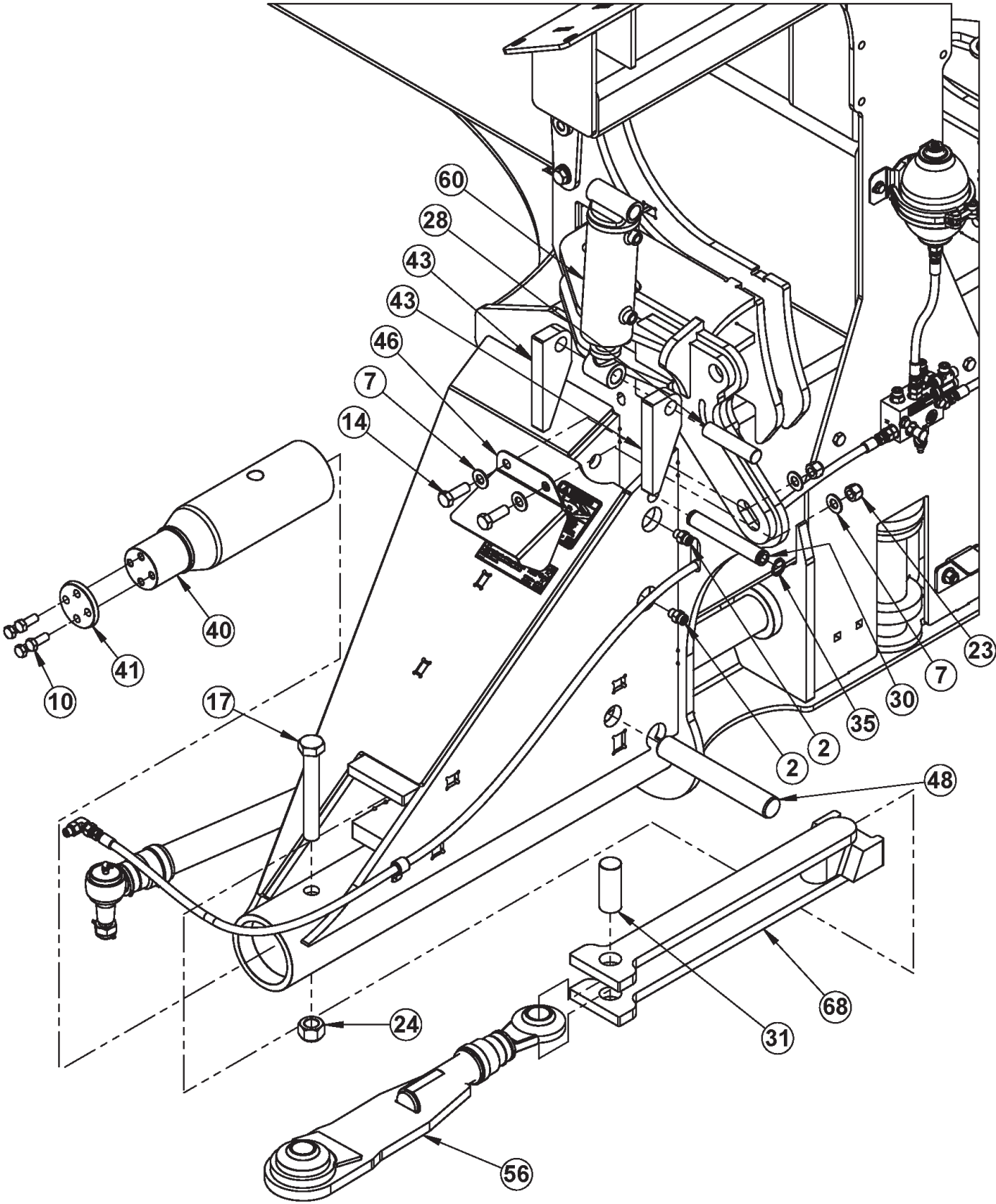
1. [T=XXX] = Torque Expressed in ft-lbs (Use standard torque values from drawing T0000000 unless otherwise specified.
2. * Items marked with an asterisk are items that are included in that particular part or assembly.



TA01881 Assy, 60/66' Main Frame (120'') (Sheet 2 of 5)

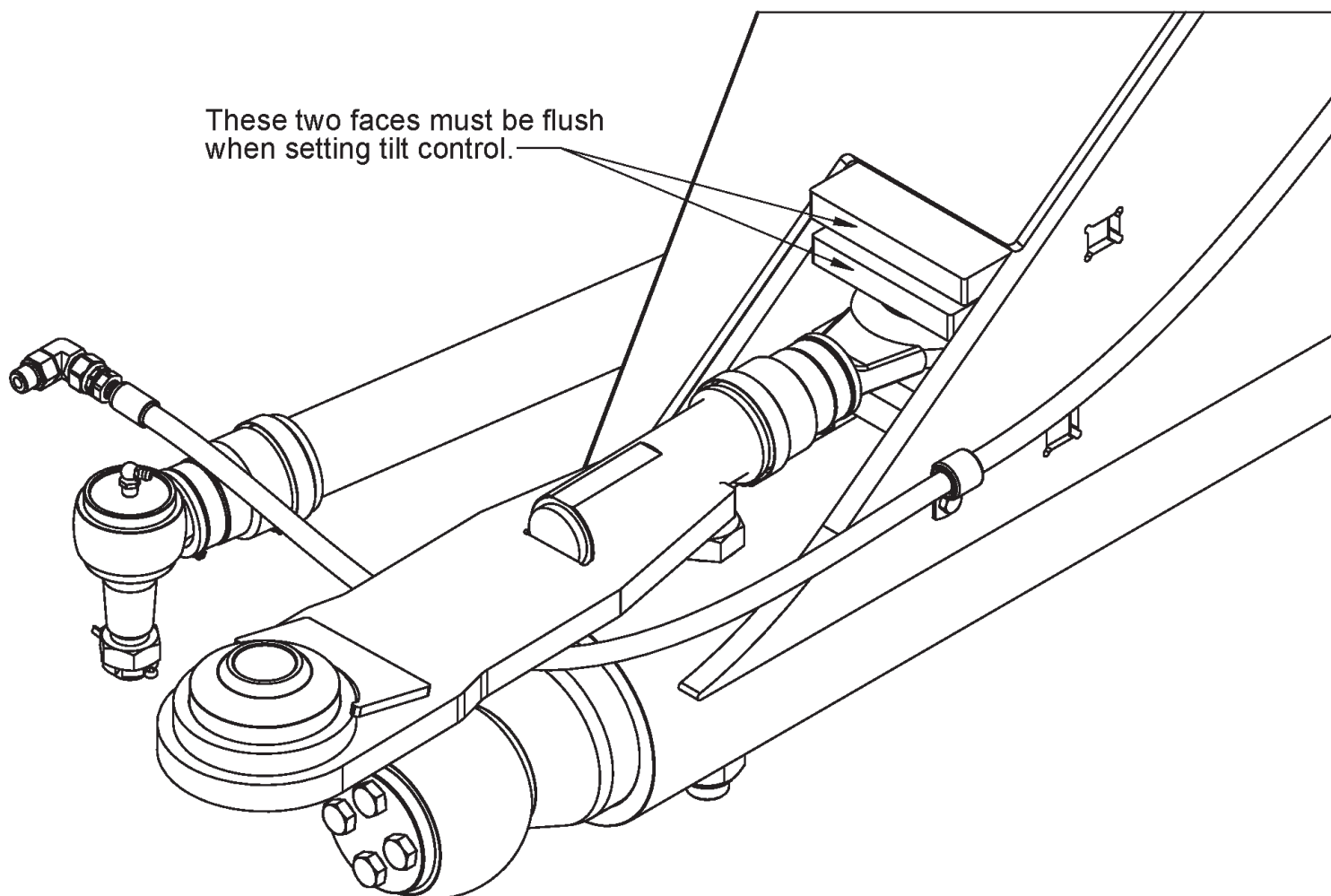
ITEM	PART NUMBER	DESCRIPTION	QTY.	TORQUE (ft-lbs)
13	HB-0.625-11X1.25Y8	Bolt, Hex Head-5/8-11x1.25-YZ8	3	
15	HB-0.625-11X2.25Y8	Bolt, Hex Head-5/8-11x2.25-YZ8	5	
18	HDWSH-0.64X2.50Y	HD Washer 0.64 x 2.50	3	
23	NLNUT-0.625-11Y8	Nut, Nylock-5/8-11-YZ8	10	
32	PIN-1.438X4.25Y	Pin-1.4375x4.250-YZ	2	
34	SRING-EXT-1.44	1-7/16" External Snap Ring	4	
36	T0050854	Anti Rotation Insert	6	
37	T0051588	Decal, Warning - Crush Hazard	2	
39	T0052610	Washer, Control Link	8	
42	T0054236	Decal, Yieldtrac 4.4x33.3	2	
44	T0054707	Decal, Warn-Crush Haz Mn Lift	2	
45	T0054708	Decal, 320 Lug Torque	2	
64	TW000630	Pin Weldment	2	

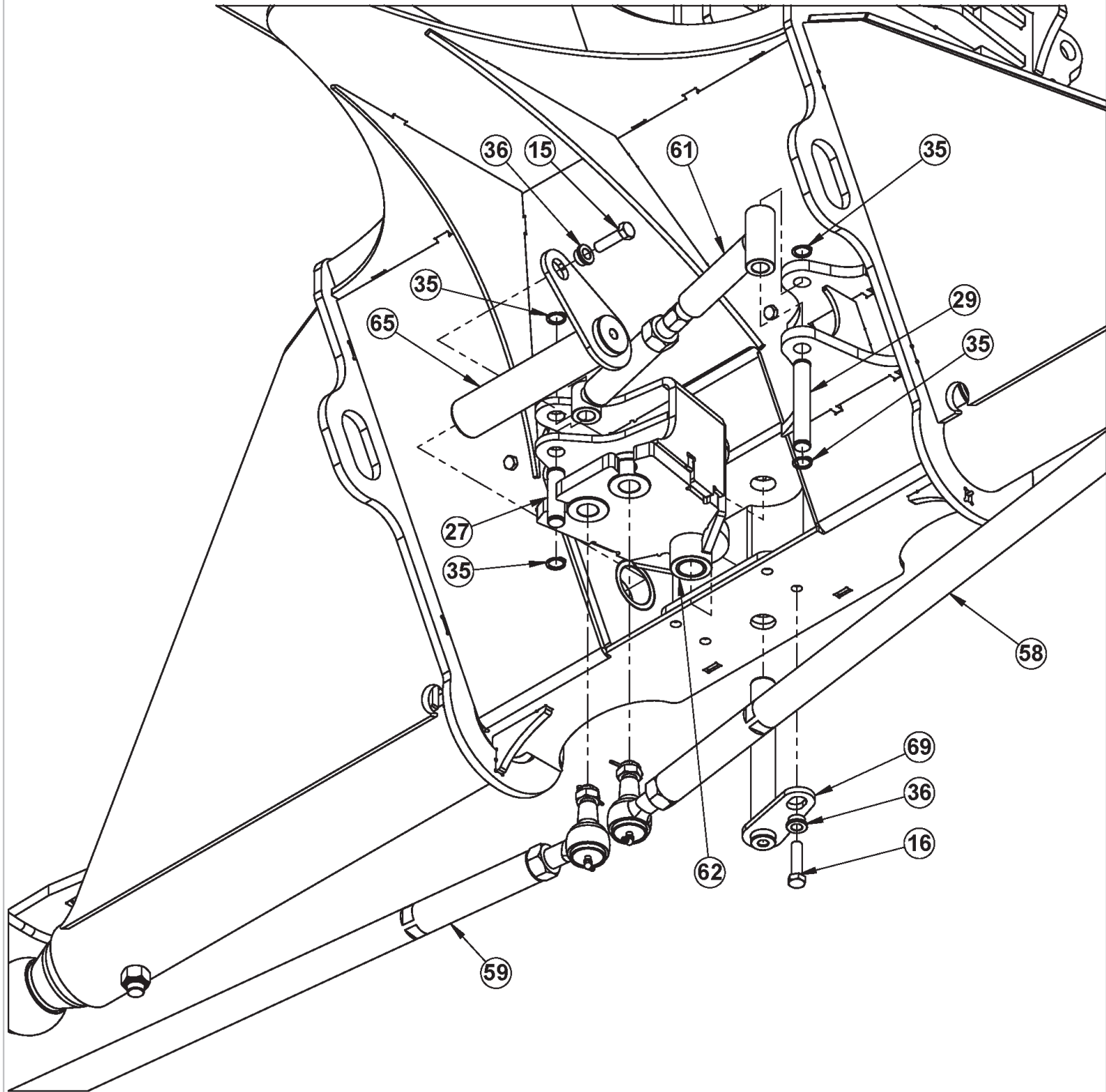




TA01881 Assy, 60/66' Main Frame (120'') (Sheet 3 of 5)

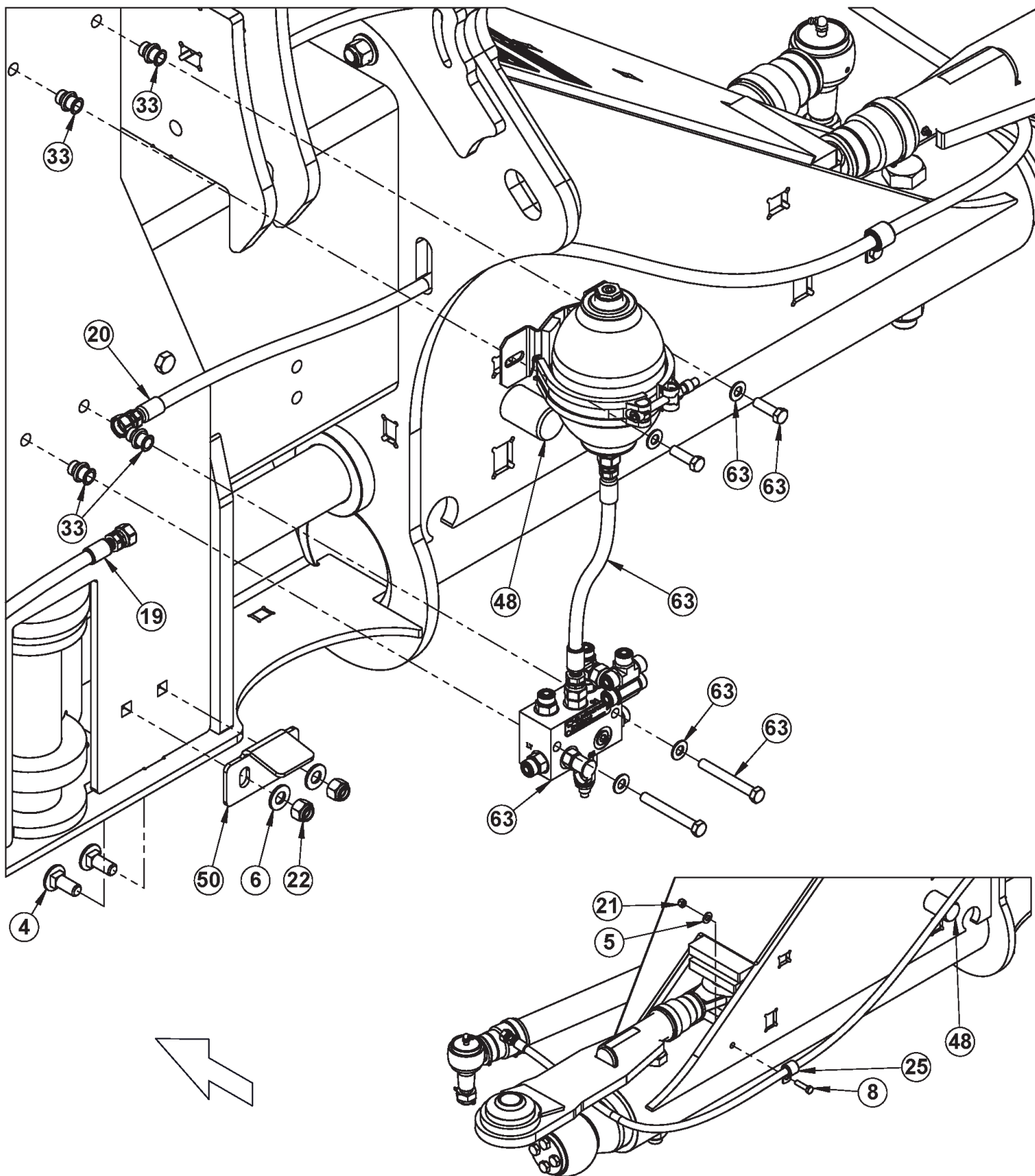
ITEM	PART NUMBER	DESCRIPTION	QTY.	TORQUE (ft-lbs)
2	AD-06MFS-06MB	AD-06MFS-06MB	4	
7	FW-SAE-0.625Y	Washer, Flat-SAE-5/8	9	
10	HB-0.500-13X1.25Y8	Bolt, Hex Hd 1/2-13x1-1/4 YZ8	8	
14	HB-0.625-11X1.75Y8	Bolt, Hex Head-5/8-11x1.75-YZ8	4	
17	HB-1.000-8X7.00Y8	Bolt, Hex Hd-1-8x7-YZ8	2	
23	NLNUT-0.625-11Y8	Nut, Nylock-5/8-11-YZ8	10	
24	NLNUT-1.000-8Y8	Nut, Nylock-1.0-8-YZ8	2	
28	PIN-1.000X4.63Y	PIN-1.000X4.63Y	2	
30	PIN-1.000X6.125Y	Pin-1.0000x6.125-YZ	2	
31	PIN-1.438X3.50Y	PIN-1.438X3.50Y	2	
35	SRING-EXT-HD-1.00Y	SRING-EXT-HD-1.00Y	10	
40	T0053788	Axle, Track Stub	2	
41	T0053791	Washer, Track Axle Retention	2	
43	T0054616	Stop Insert	4	
46	T0054904	Cylinder Cover, LH	1	
48	T0055290	Pin, Shipping Lock	2	
56	TA01117	Tilt Control Assembly	1	
60	TA01235	Cylinder, Tilt Stop	2	
68	TW001163	Wldmt, 120" Stop Block	2	





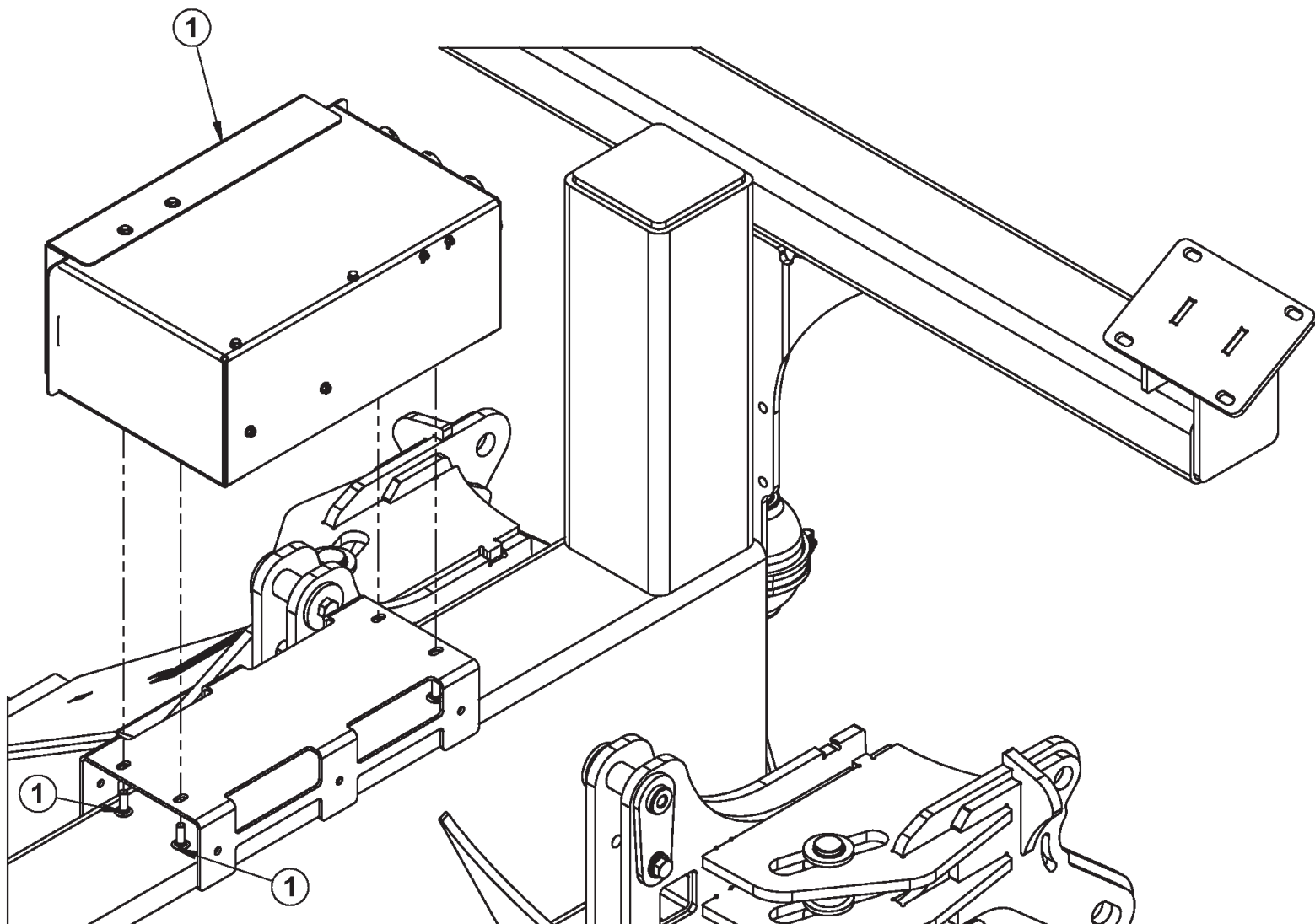
TA01881 Assy, 60/66' Main Frame (120") (Sheet 4 of 5)

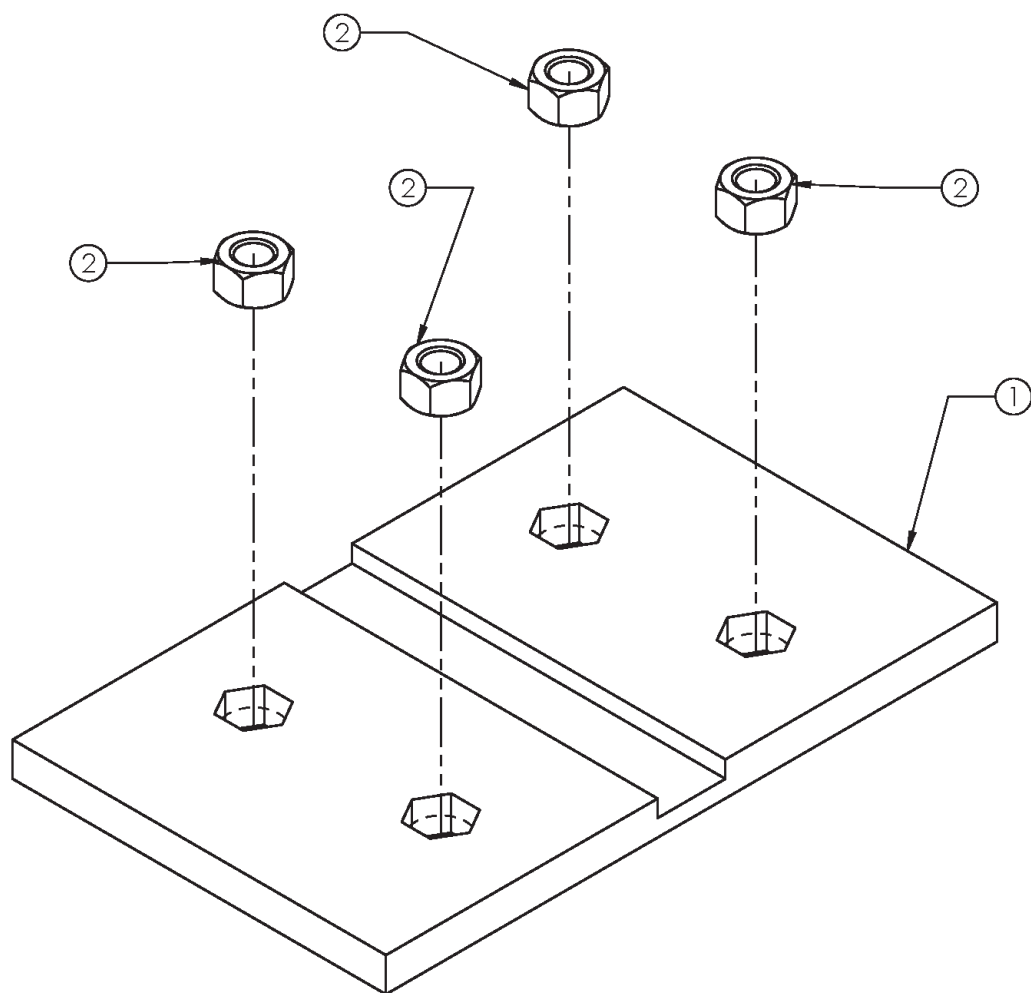
ITEM	PART NUMBER	DESCRIPTION	QTY.	TORQUE (ft-lbs)
15	HB-0.625-11X2.25Y8	Bolt, Hex Head-5/8-11x2.25-YZ8	5	
16	HB-0.625-11X2.50Y8	Bolt, Hex Head-5/8-11x2.5-YZ8	1	
27	PIN-1.000X3.38Y	PIN-1.000X3.38Y	1	
29	PIN-1.000X5.75Y	Pin-1.0000x5.750-YZ	1	
35	SRING-EXT-HD-1.00Y	SRING-EXT-HD-1.00Y	10	
36	T0050854	Anti Rotation Insert	6	
58	TA01168	Assy, Tie Rod 120"	1	
59	TA01168	Assy, Tie Rod 120"	1	
61	TA01637	Assy, Turnbuckle	1	
62	TA01916	Assy, Steering Pivot	1	
65	TW001012	Pin Weldment	2	
69	TW001170	Pin Weldment	1	



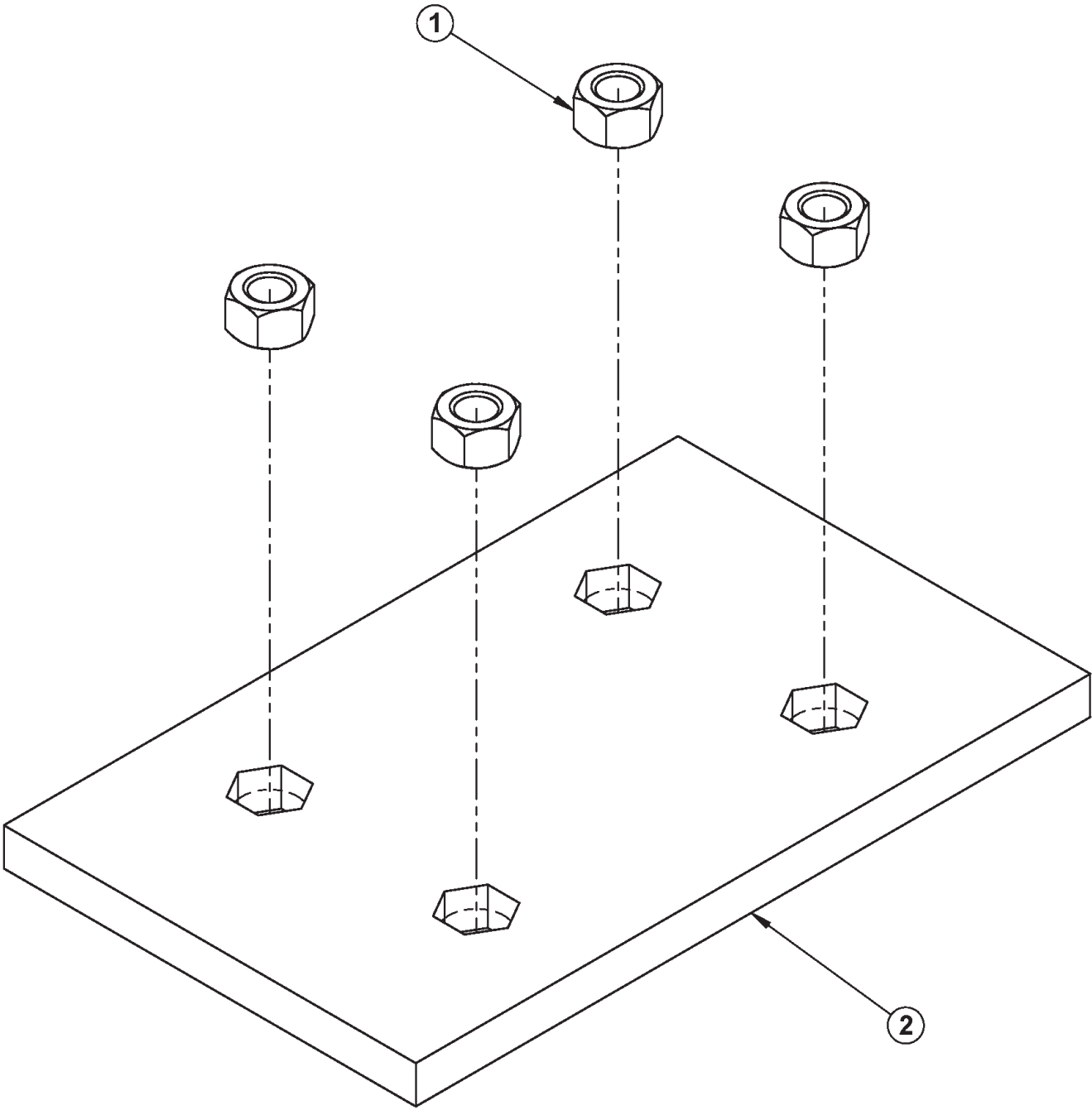
TA01881 Assy, 60/66' Main Frame (120") (Sheet 5 of 5)

ITEM	PART NUMBER	DESCRIPTION	QTY.	TORQUE (ft-lbs)
1	48103378	KIT, UCM ASSEMBLY	1	
4	CB-0.500-13X1.25-Y8	RHSNBOLT 1/2-13x1.25-Y8	2	
5	FW-SAE-0.375Y	Washer, Flat SAE 3/8" YZ	2	
6	FW-SAE-0.500Y	Washer, Flat SAE - 1/2-YZ	18	
8	HB-0.313-18X1.25Y8	Bolt, Hex Hd 5/16-18x1-1/4 YZ8	2	
19	HS04-073-06FS-06FS-C	HS04-073-06FS-06FS-C	1	
20	HS04-073-06FS-06FS-C	HS04-073-06FS-06FS-C	1	
21	NLNUT-0.313-18Y8	Nut, Nylock 5/16"-18-YZ8	2	
22	NLNUT-0.500-13Y8	Nut, Nylock 1/2-13 YZ8	2	
25	PCLMP-0.750x0.875	Clmp, Cus Pipe Ø3/4"x7/8"	2	
33	RN-0.375-16-.31-.44-Y	Rivnut, 3/8-16 UNC .31-.44 GR	4	
48	T0055290	Pin, Shipping Lock	2	
50	T0056047	Bracket, Striker	1	
63	TA01921	Assy, Track Tension Valve	1	



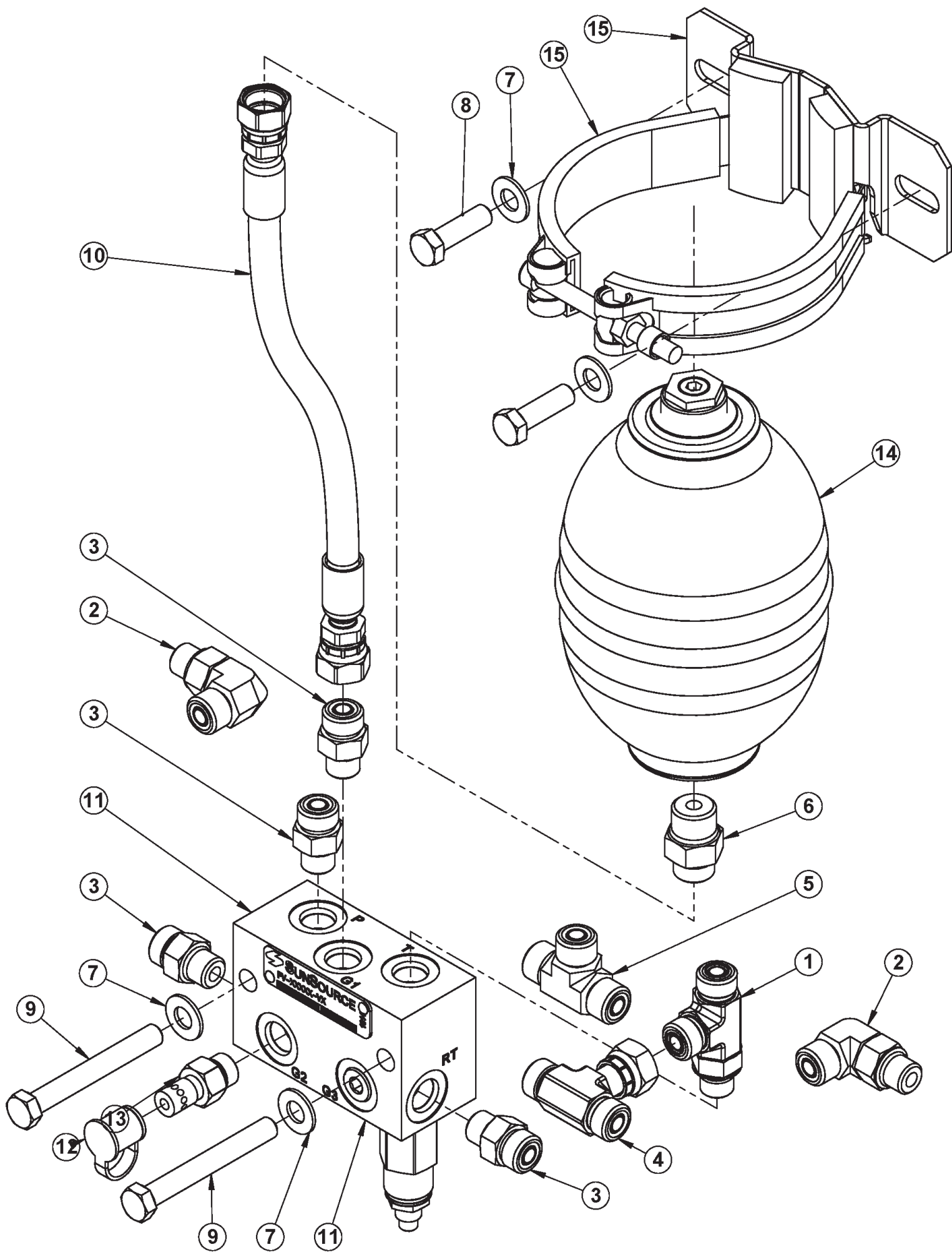


TA00843 Assy, Slider				
ITEM	PART NUMBER	DESCRIPTION	QTY	TORQUE (ft-lbs)
1	T0052385	Pad, Slider - w/ Dado Cut	1	
2	HNUT-0.500-13Y8	Nut, Hex 1/2-13 YZ8	4	



TA00801 Assy, Slider

ITEM	PART NUMBER	DESCRIPTION	QTY.	TORQUE (ft-lbs)
1	HNUT-0.500-13Y8	Nut, Hex 1/2-13 YZ8	4	
2	T0052285	Pad, Slider	1	



TA01921 Assy, Track Tension Valve

ITEM	PART NUMBER	DESCRIPTION	QTY	TORQUE (ft-lbs)
1	AD-06MFS-06MB-06MFS	Adapter, 06MFS-06MB-06MFS Tee	1	
2	AD-06MFS-06MB-90	Adapter, 06MFS-06MB 90	2	
3	AD-06MFS-06MB	Adapter, 06MFS-06MB	4	
4	AD-06MFS-06MFS-06FST	Adapter, 06MFS-06MFS-06FST Tee	1	
5	AD-06MFS-06MFS-06MFS	Adapter, 06MFS-06MFS-06MFS Tee	1	
6	AD-06MFS-08MB	Adapter, 06MFS-08MB	1	
7	FW-SAE-0.375Y	Washer, Flat SAE 3/8 YZ	4	
8	HB-0.375-16X1.25Y8	Bolt, Hex Hd 3/8-16x1-1/4 YZ8	2	
9	HB-0.375-16X3.00Y8	HBolt-0.3750-16x3.000-YZ8	2	
10	HS04-013-06FS-06FS-B	Hose 0.250-013-06FS-06FS-B	1	
11	T0054379	Valve Assy, Track Tension	1	
12	T0054469	Cap, Rubber	1	
13	T0054476	Diagnostic Nipple	1	
14	T0054501	Accumulator, Track Tension	1	
15	TA01484	Assy, Accumulator Clamp	1	

Note:

1. **T=XXX** = Torque, and is expressed in ft-lbs.

Torque to 260 ft-lbs, continue to tighten past 260 ft-lbs until cotter pin hole is aligned
! DO NOT LOOSEN

T=260

Paint tie rods black if needed

7

8

3

4

T=260

Torque to 260 ft-lbs, continue to tighten past 260 ft-lbs until cotter pin hole is aligned
! DO NOT LOOSEN

6

8

5

1

2

Paint tie rods black if needed

Remove small hose clamp and discard

7

Must have equal amount of exposed tie-rod threads on each end of turnbuckle. Fully bottom both tie-rods and unscrew turnbuckle to set initial length.

Liberaly apply Anti-Sieze Prior to assembly

Liberaly apply Anti-Sieze Prior to assembly

2.95

(2.87)

56.01

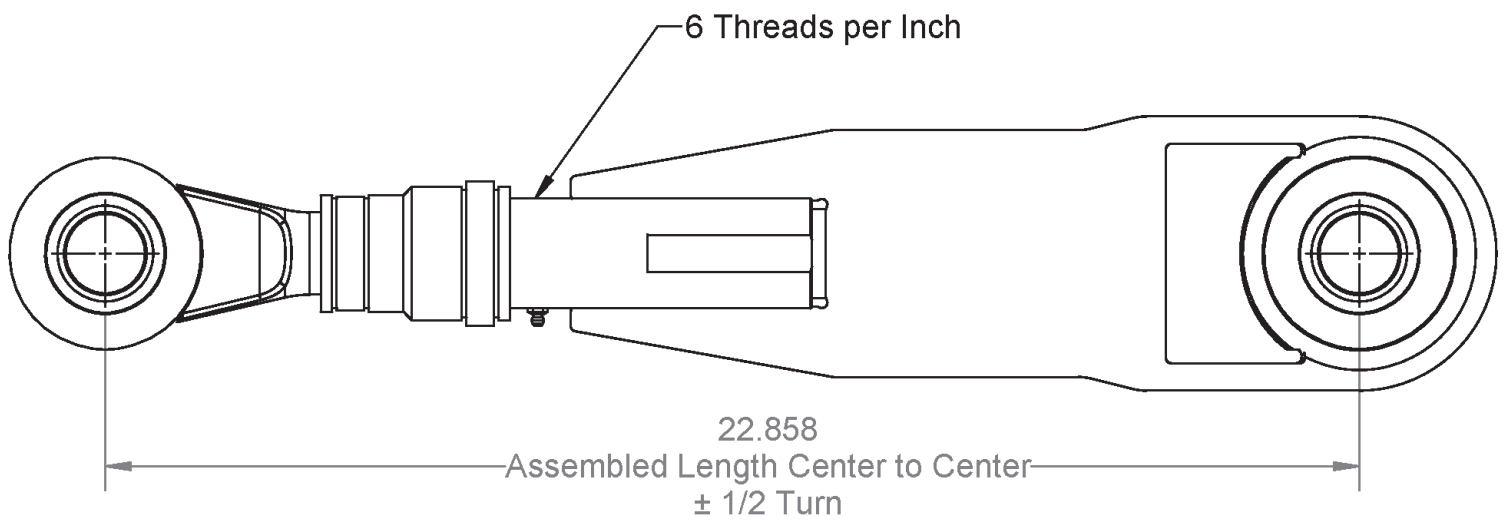
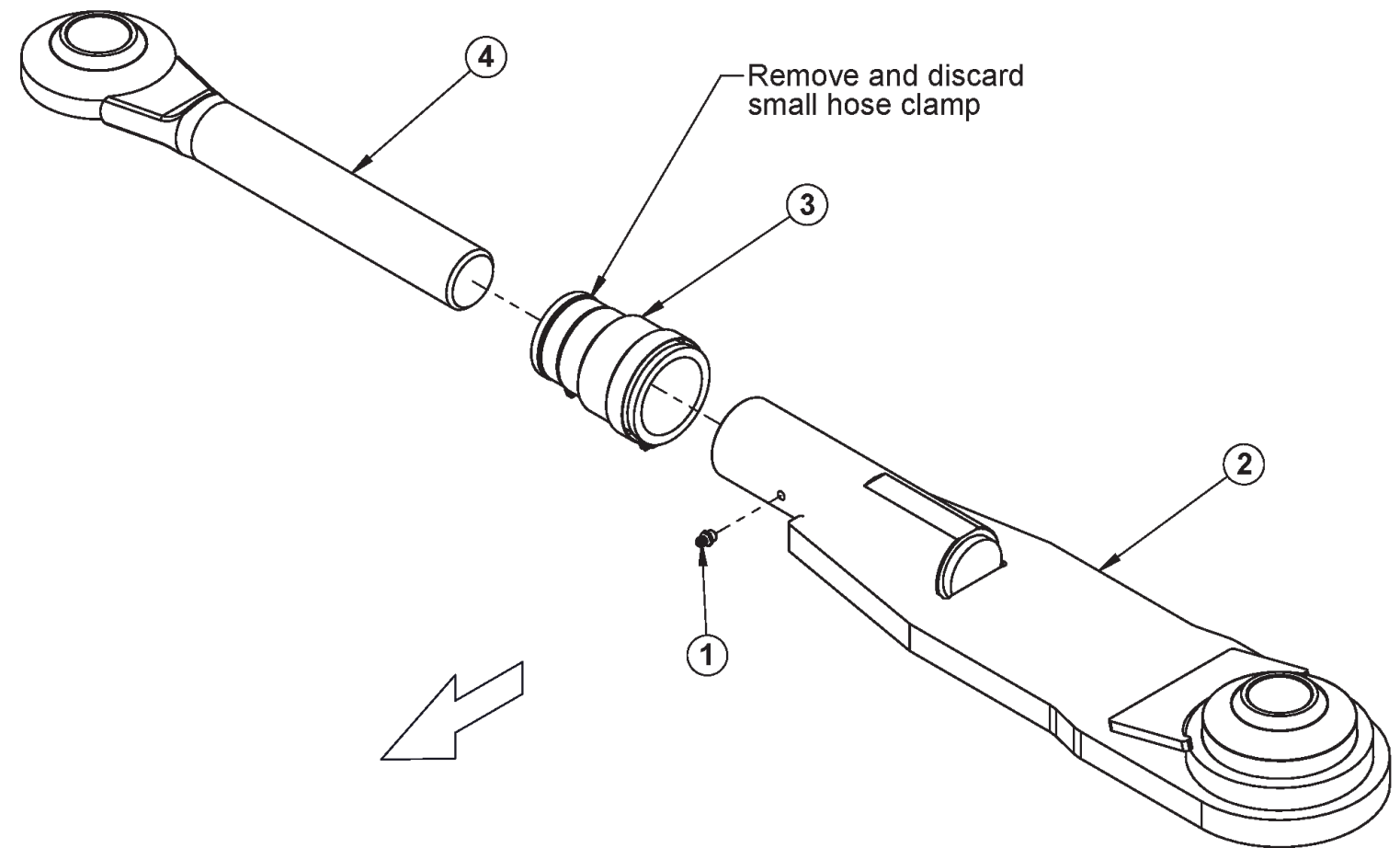
Starting Point Reference -
Further Adjustment May be
Required During Track
Alignment Procedure

TA01168 Assy, Tie Rod 120"

ITEM	PART NUMBER	DESCRIPTION	QTY.	TORQUE (ft-lbs)
1	T0054289	Turnbuckle 120"	1	
2	T0053839	Tie Rod End, Outter LH Thrds	1	
3	T0053945	Tie Rod End, Inner RH Thrds	1	
4	HNUT-1.250-12Y8	Nut, Hex 1-1/4-12 YZ8	1	
5	T0054207	1.5" x 1.25" Rubber Coupling	1	
6	ZERK-0.250-28	Zerk, 1/4-28	1	
7	ZERK-0.250-28X90	Zerk, Grease 1/4-28x90 Deg	2	
8	CTPIN-0.156X2.00	COTTER PIN, 1/8 X 1, SST	2	

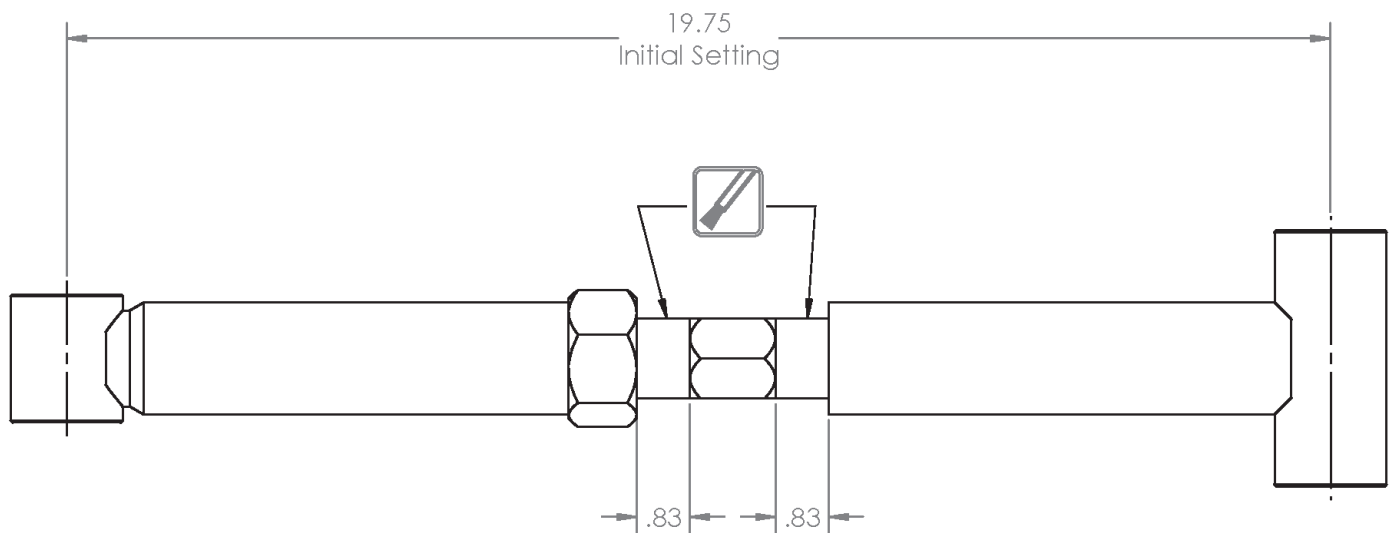
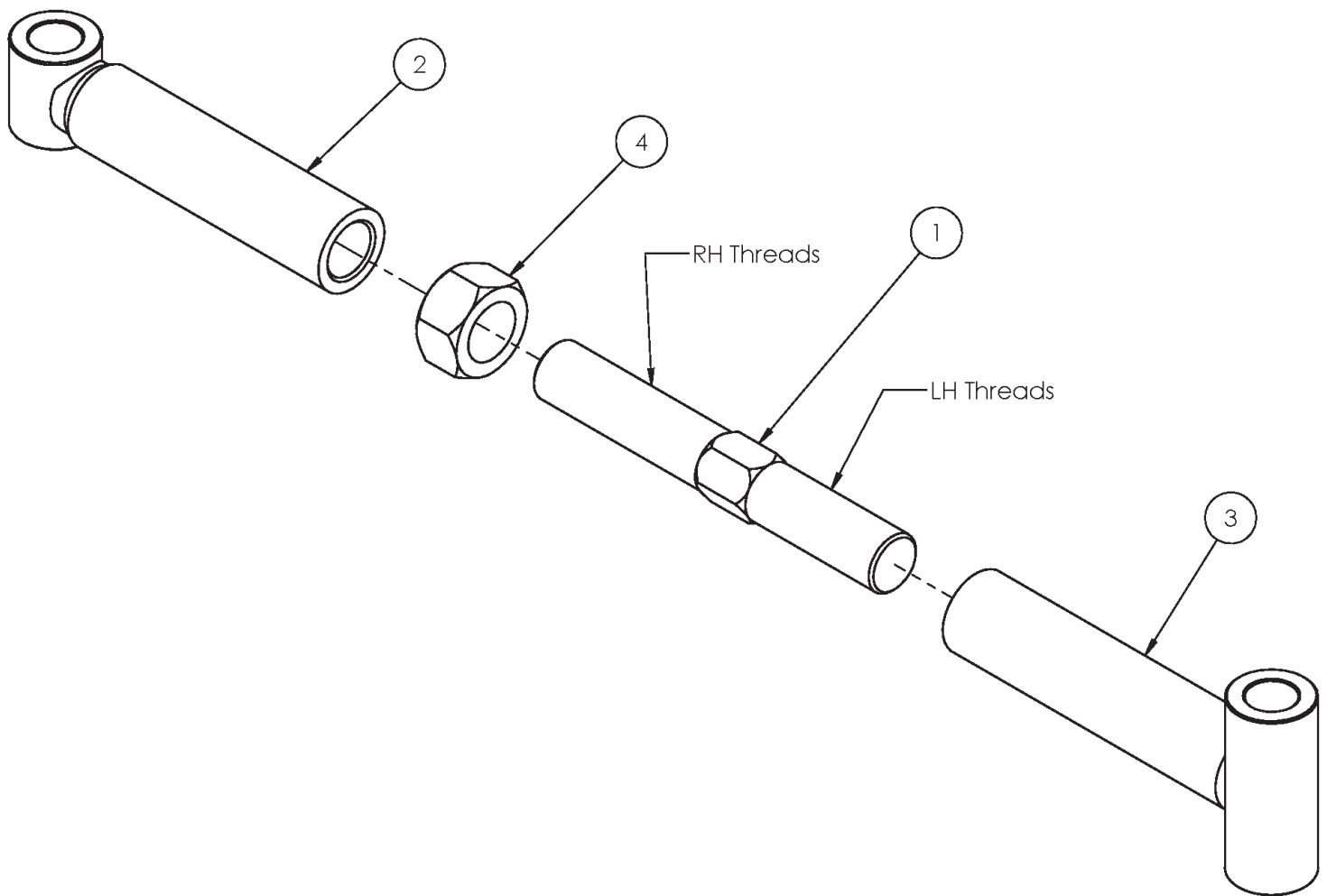
Note:

1. **T=XXX** = Torque Expressed in ft-lbs (Use standard torque values from drawing T0000000 unless otherwise specified.
2. * Items marked with an asterisk are items that are included in that particular part or assembly.
3. Paint tie rods black if needed.



TA01117 Tilt Control Assembly

ITEM	PART NUMBER	DESCRIPTION	QTY	TORQUE (ft-lbs)
1	ZERK-0.250-28	Zerk, 1/4-28	1	
2	TW001063	Wldmt, Tilt Stop	1	
3	T0054207	1.5" x 1.25" Rubber Coupling	1	
4	T0051213	RH End Link	1	



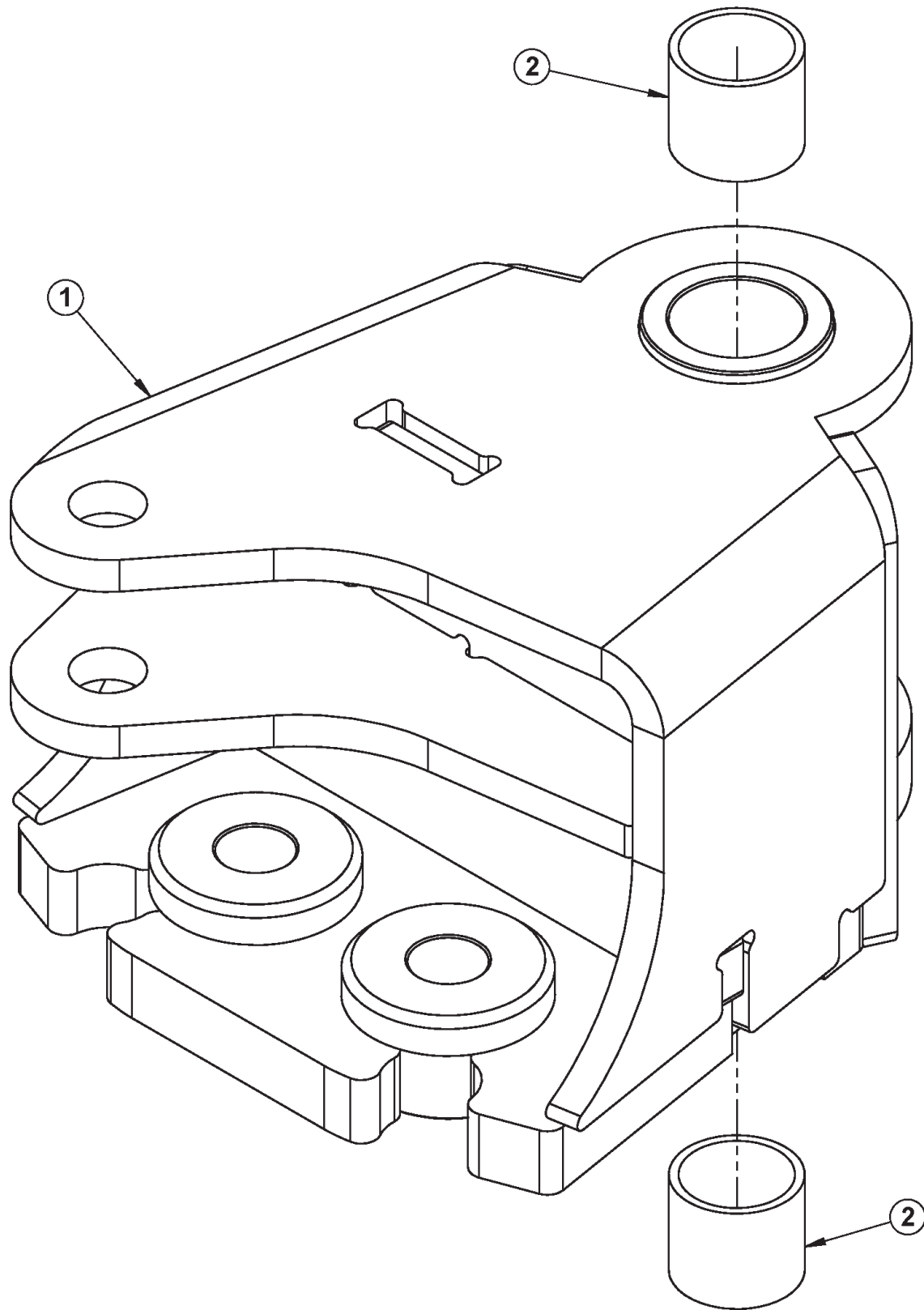
Thread lengths must be equal

TA01637 Assy, Turnbuckle

ITEM	PART NUMBER	DESCRIPTION	QTY.	TORQUE (ft-lbs)
1	T0055292	Shaft, Turnbuckle	1	
2	TW001289	Wdmt, Turnbuckle RH	1	
3	TW001290	Wdmt, Turnbuckle LH	1	
4	HNUT-1.250-12Y8	Nut, Hex 1-1/4-12 YZ8	1	

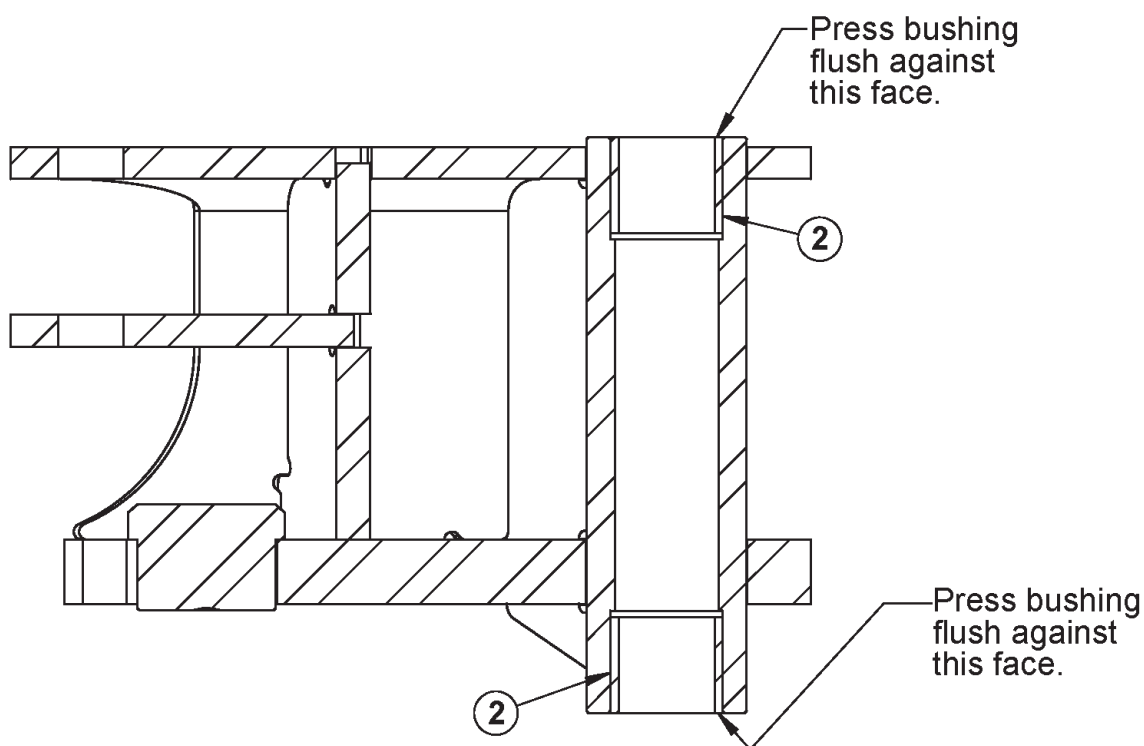
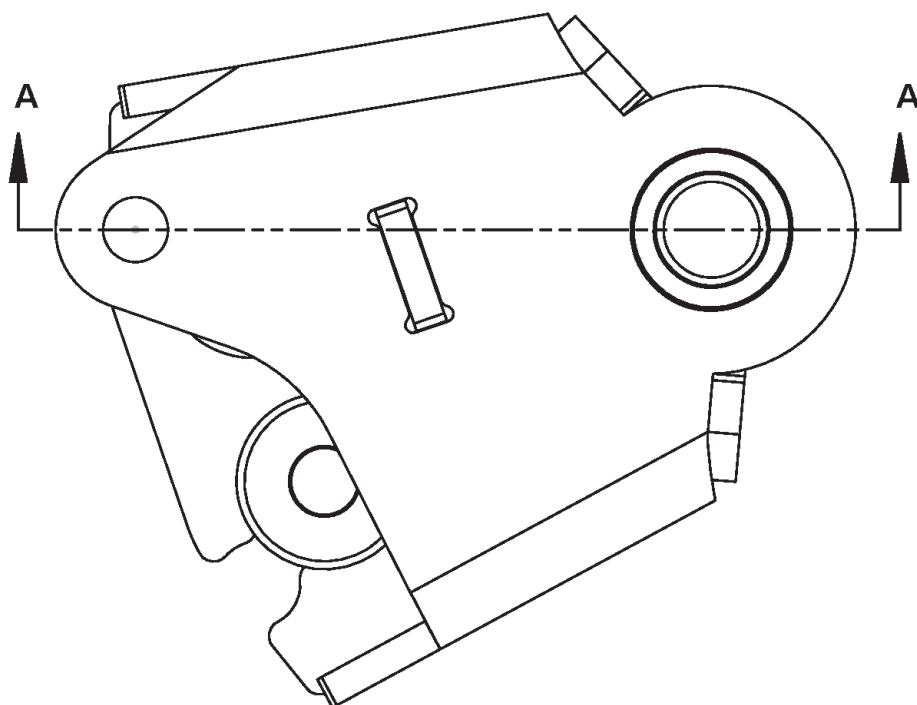
Note:

1.  = Torque Expressed in ft-lbs (Use standard torque values from drawing T0000000 unless otherwise specified).
2. * Items marked with an asterisk are items that are included in that particular part or assembly.
3.  = Apply Anti-Sieze

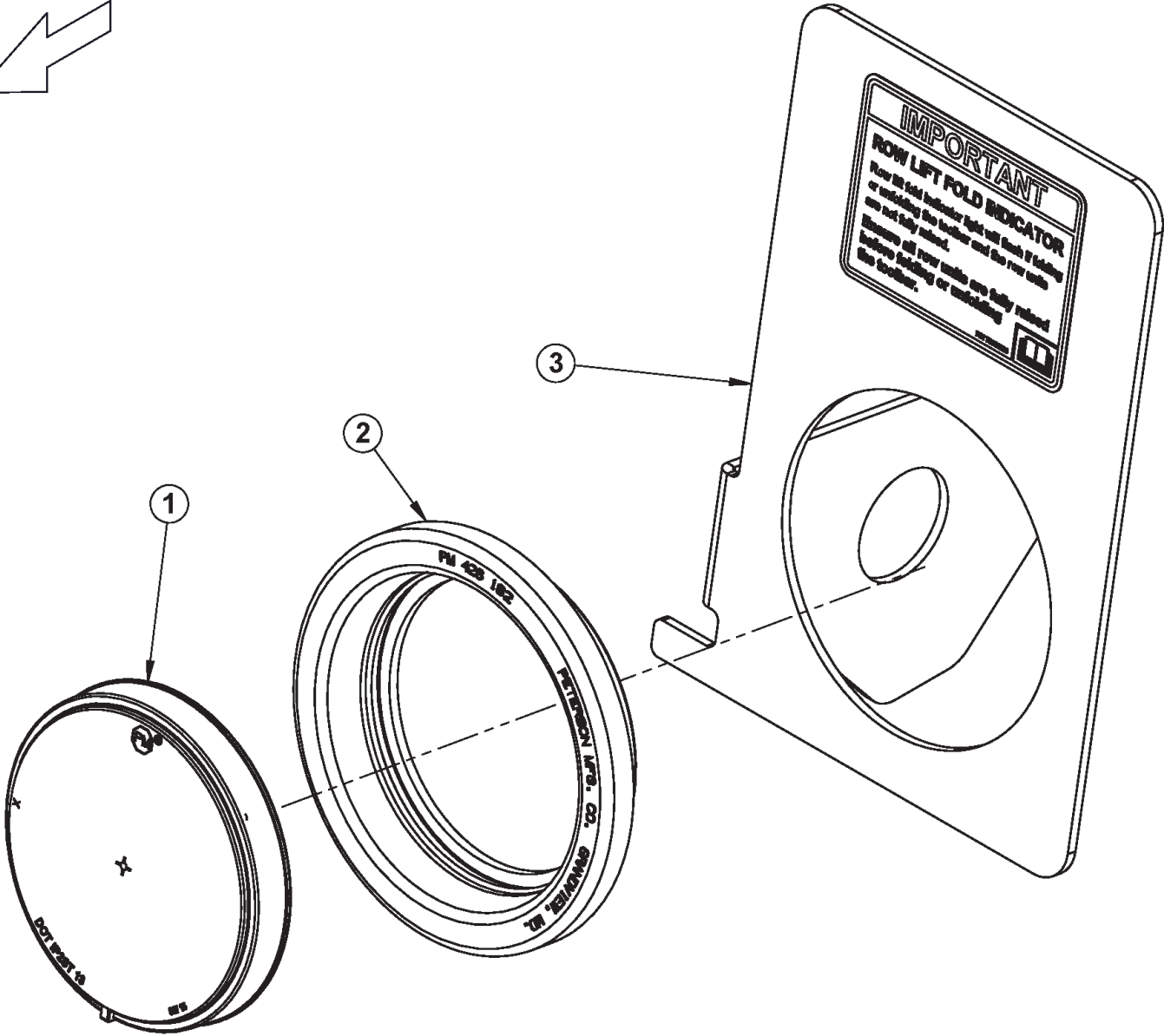
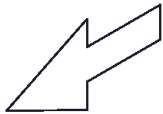


TA01916 Assy, Steering Pivot

ITEM	PART NUMBER	DESCRIPTION	QTY.	TORQUE (ft-lbs)
1	TW001458	Wldmt, Steering Pivot	1	
2	PB-1.500X1.75X1.50	Bush, Polygon 1.50x1.75x1.50	2	



SECTION A-A
SCALE 1 : 3

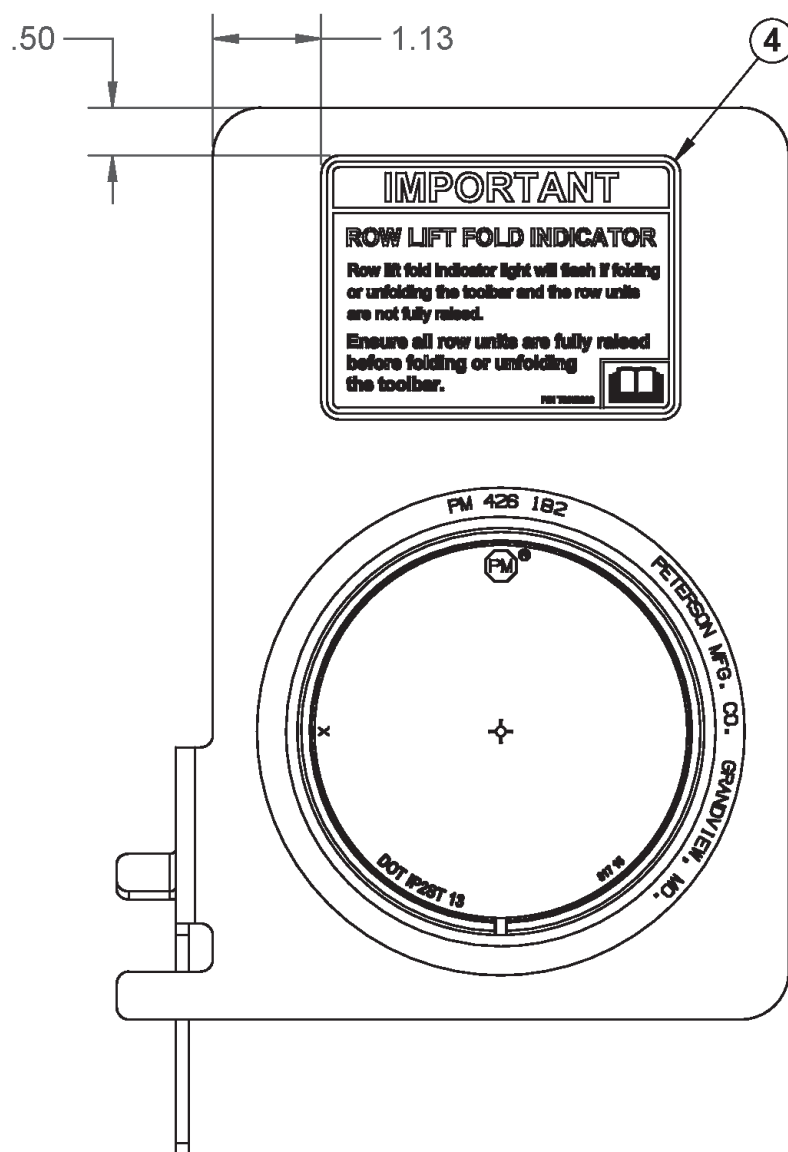


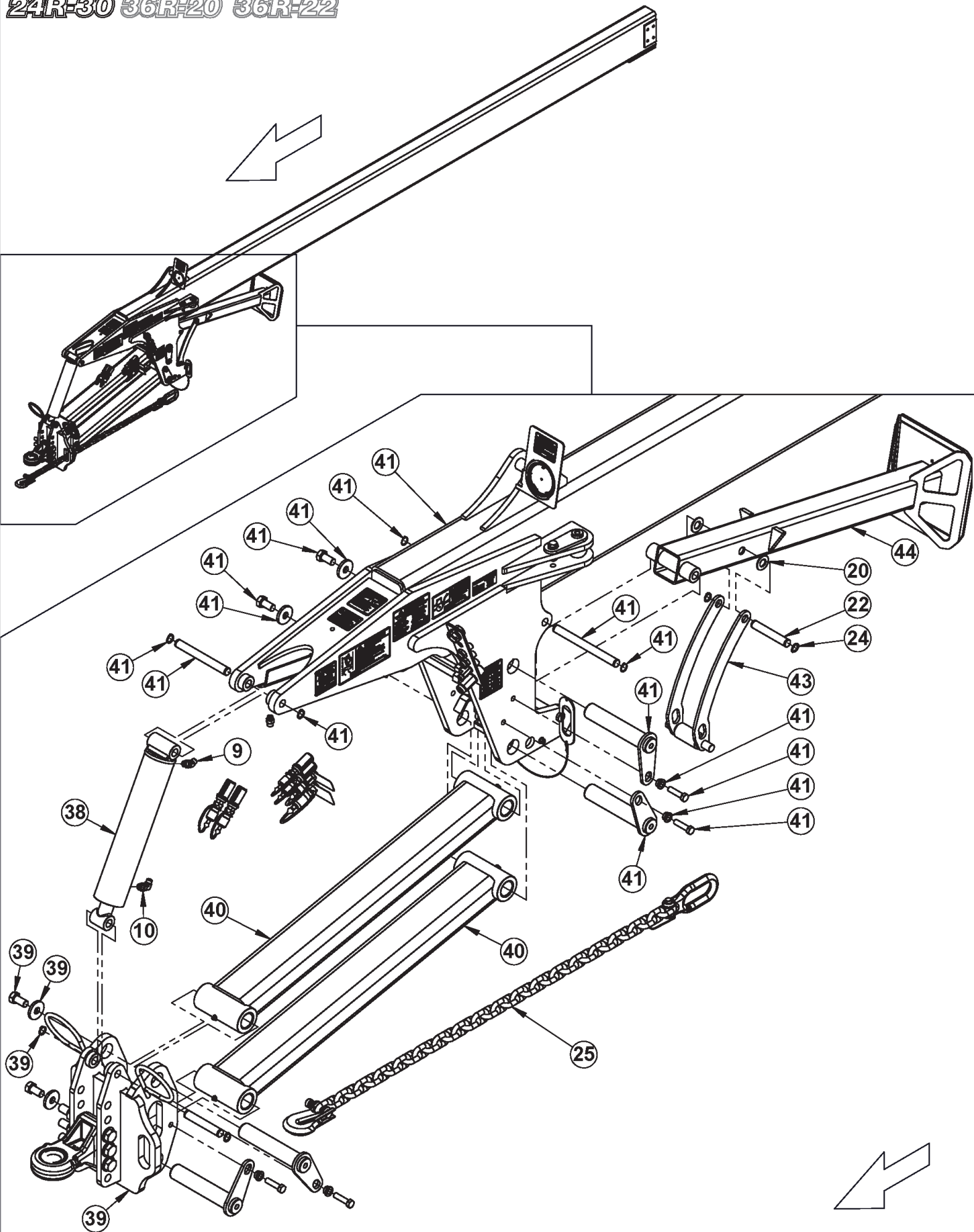
TA02103 Assy, Row Lift Indicator

ITEM	PART NUMBER	DESCRIPTION	QTY	TORQUE (ft-lbs)
1	T0056205	Light, 4" Amber LED Strobe	1	
2	T0056206	Grommet, 4" Light	1	
3	T0056207	Mount, Row Lift Indicator	1	
4	T0056208	Decal, Row Lift Indicator	1	

Note:

1. **T=XXX** = Torque Expressed in ft-lbs (Use standard torque values from drawing T0000000 unless otherwise specified.
2. * Items marked with an asterisk are items that are included in that particular part or assembly.



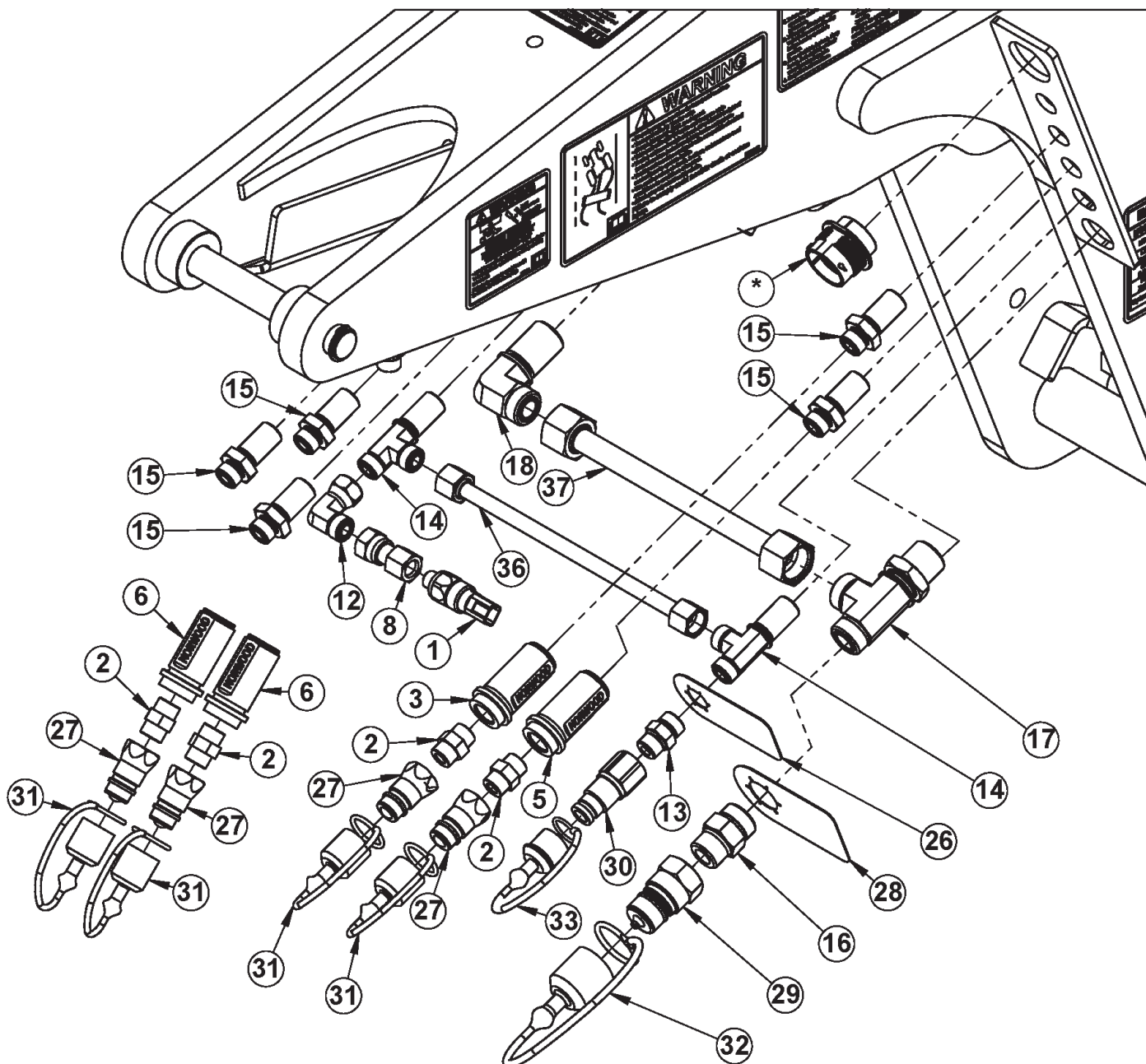
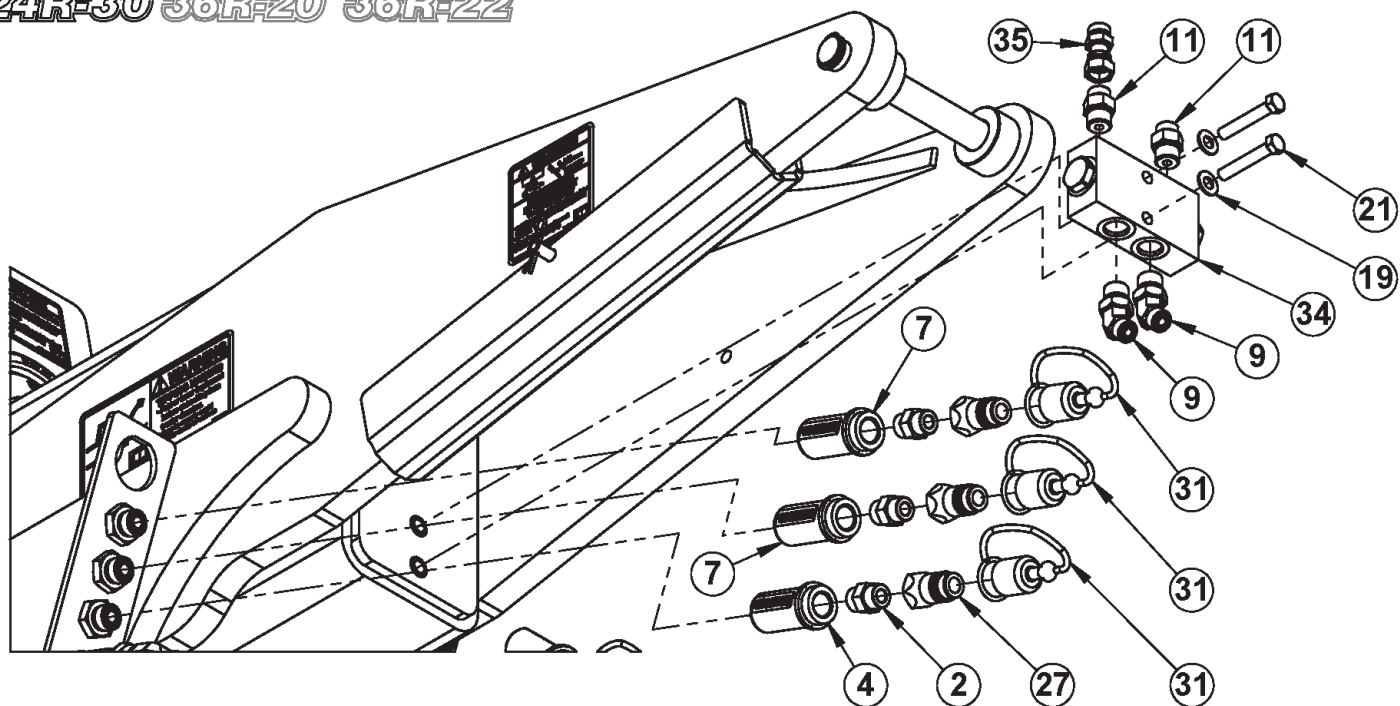


TA01927 Assy, 60/66' Hyd Lift Front Hitch (Sheet 1 of 2)

ITEM	PART NUMBER	DESCRIPTION	QTY.	TORQUE (ft-lbs)
1	84389953	Sensor, Drain Pressure	1	
2	90-38-0250	Adapter, Straight, 08 MO x 08 MO	7	
3	90-38-0251	Hose Grip, 08 FO x 08 FO Blue Set (Plus & Minus)	0.5	
4	90-38-0252	Hose Grip, 08 FO x 08 FO Green Set (Plus & Minus)	0.5	
5	90-38-0253	Hose Grip, 08 FO x 08 FO Gold Set (Plus & Minus)	0.5	
6	90-38-0254	Hose Grip, 08 FO x 08 FO Black Set (Plus & Minus)	1	
7	90-38-0255	Hose Grip, 08 FO x 08 FO Red Set (Plus & Minus)	1	
8	AD-06FB-08FST	AD-06FB-08FST	1	
9	AD-06MFS-08MB-45	AD-06MFS-08MB-45	3	
10	AD-06MFS-08MB-90	AD-06MFS-08MB-90	1	
11	AD-06MFS-08MB	AD-06MFS-08MB	2	
12	AD-08MFS-08FST-90	AD-08MFS-08FST-90	1	
13	AD-08MFS-08MB	AD-08MFS-08MB	1	
14	AD-08MFS-08MFS-08MFS-BHR	AD-08MFS-08MFS-08MFS-BHR	2	
15	AD-08MFS-08MFS-BH	AD-08MFS-08MFS-BH	5	
16	AD-12MFS-12MB	AD-12MFS-12MB	1	
17	AD-12MFS-12MFS-12MFS-BHR	AD-12MFS-12MFS-12MFS-BHR	1	
18	AD-12MFS-12MFS-BH90	AD-12MFS-12MFS-BH-90	1	
19	FW-SAE-0.375Y	Washer, Flat SAE 3/8" YZ	2	
20	FW-SAE-1.000Y	Washer, Flat SAE-1.0-YZ	2	
21	HB-0.375-16X2.25Y8	Bolt, Hex Hd 3/8-16x2-1/4-YZ8	2	
22	PIN-1.000X5.75Y	Pin-1.000x5.750-YZ	1	
23	RN-0.375-16-.31-.44-Y	Rivnut, 3/8-16 UNC .31-.44 GR	2	
24	SRING-EXT-HD-1.00Y	SRING-EXT-HD-1.00Y	2	
25	T0051511	Safety Chain-61,000 lbs. 80"	1	
26	T0051595	Decal, Notice-Fan Motor Case	1	
27	T0051660	Tip, 1/2" Pioneer	7	
28	T0051678	Decal, Notice-Motor Return	1	
29	T0052376	Tip, Motor Return w/Relief	1	
30	T0052377	Tip, Case Drain w/Relief	1	
31	T0052386	Dust Plug, Pioneer Black	7	
32	T0052387	Dust Cap, Motor Return Black	1	
33	T0052388	Dust Cap, Case Drain Black	1	
34	T0055125	Valve, Double Blocking	1	
35	T0055981	AD-06MFS-06FST w/ORF	1	
36	T0055987	Tube Assy, Crossover	1	
37	T0055988	Tube Assy, Crossover	1	
38	TA01496	Cylinder, Hyd 3.50X16.00	1	
39	TA01511	Assy, Hitch	1	
40	TA01513	Assy, Pivot Tube	2	
41	TA01791	Assy, Front Hitch	1	
42	TA01934	Hose Kit, Hyd Hitch	1	
43	TW001496	Wdmt, Jack Pivot Support	1	
44	TW001495	Wdmt, Jack Stand	1	

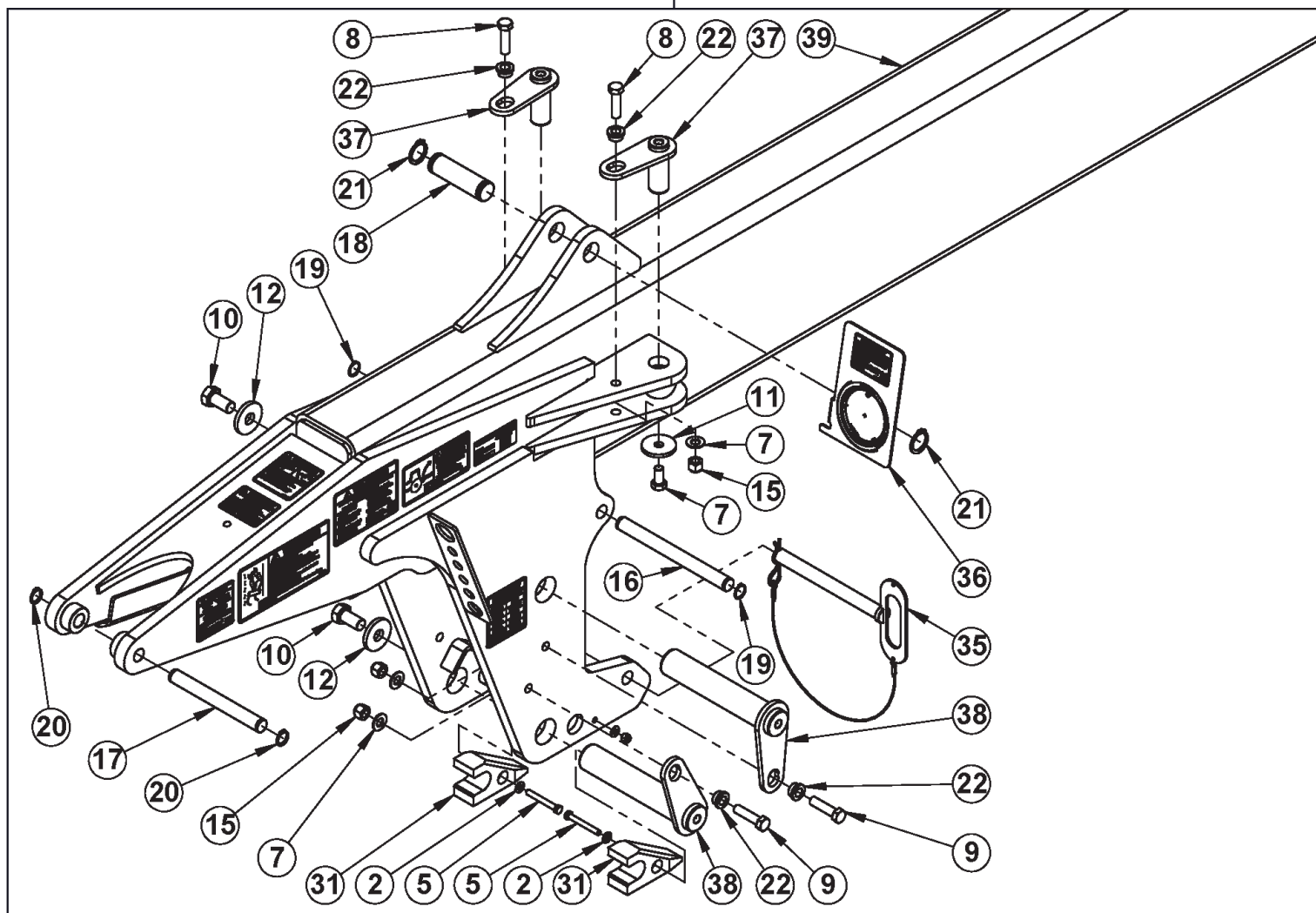
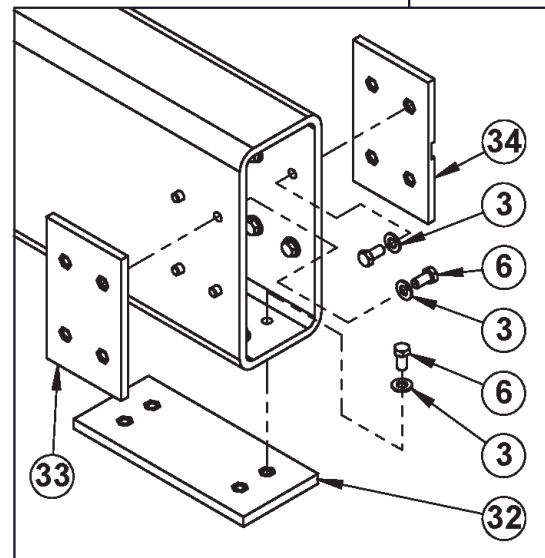
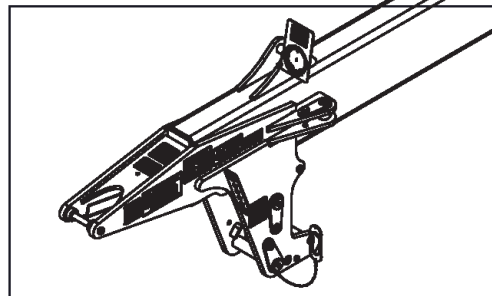
Note:

1. **[T=XXX]** = Torque Expressed in ft-lbs (Use standard torque values from drawing T0000000 unless otherwise specified.
2. * Items marked with an asterisk are items that are included in that particular part or assembly.



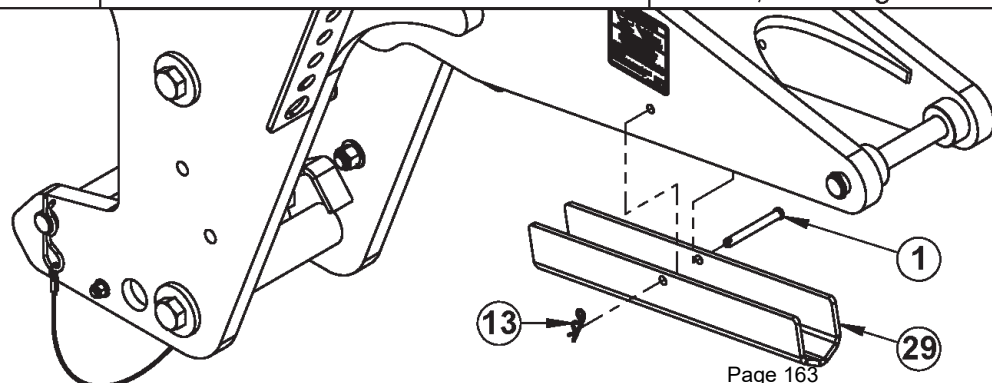
TA01927 Assy, 60/66' Hyd Lift Front Hitch (Sheet 2 of 2)

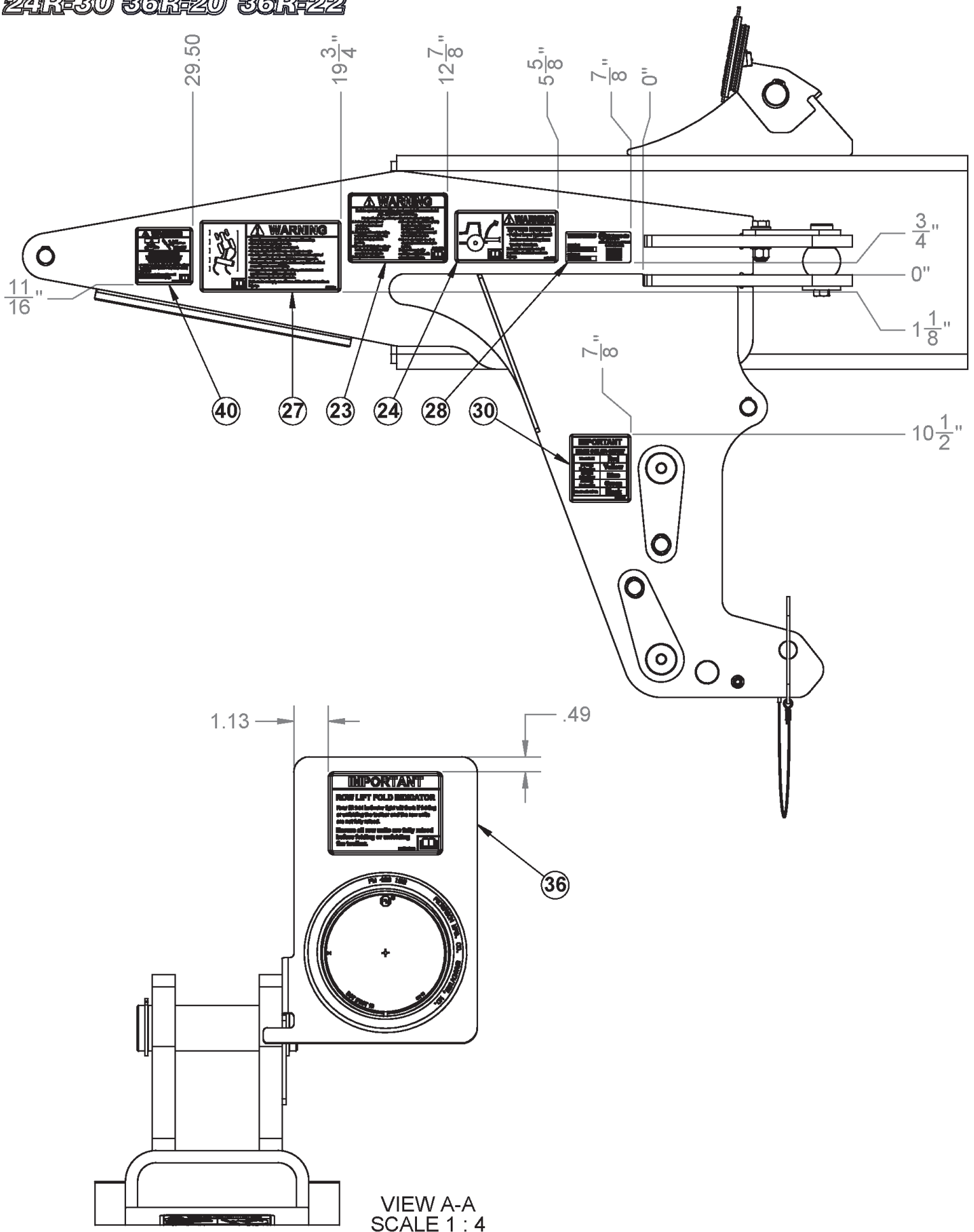
ITEM	PART NUMBER	DESCRIPTION	QTY.	TORQUE (ft-lbs)
1	84389953	Sensor, Drain Pressure	1	
2	90-38-0250	Adapter, Straight, 08 MO x 08 MO	7	
3	90-38-0251	Hose Grip, 08 FO x 08 FO Blue Set (Plus & Minus)	0.5	
4	90-38-0252	Hose Grip, 08 FO x 08 FO Green Set (Plus & Minus)	0.5	
5	90-38-0253	Hose Grip, 08 FO x 08 FO Gold Set (Plus & Minus)	0.5	
6	90-38-0254	Hose Grip, 08 FO x 08 FO Black Set (Plus & Minus)	1	
7	90-38-0255	Hose Grip, 08 FO x 08 FO Red Set (Plus & Minus)	1	
8	AD-06FB-08FST	AD-06FB-08FST	1	
9	AD-06MFS-08MB-45	AD-06MFS-08MB-45	3	
11	AD-06MFS-08MB	AD-06MFS-08MB	2	
12	AD-08MFS-08FST-90	AD-08MFS-08FST-90	1	
13	AD-08MFS-08MB	AD-08MFS-08MB	1	
14	AD-08MFS-08MFS-08MFS-BHR	AD-08MFS-08MFS-08MFS-BHR	2	
15	AD-08MFS-08MFS-BH	AD-08MFS-08MFS-BH	5	
16	AD-12MFS-12MB	AD-12MFS-12MB	1	
17	AD-12MFS-12MFS-12MFS-BHR	AD-12MFS-12MFS-12MFS-BHR	1	
18	AD-12MFS-12MFS-BH90	AD-12MFS-12MFS-BH-90	1	
19	FW-SAE-0.375Y	Washer, Flat SAE 3/8" YZ	2	
21	HB-0.375-16X2.25Y8	Bolt, Hex Hd 3/8-16x2-1/4-YZ8	2	
26	T0051595	Decal, Notice-Fan Motor Case	1	
27	T0051660	Tip, 1/2" Pioneer	7	
28	T0051678	Decal, Notice-Motor Return	1	
29	T0052376	Tip, Motor Return w/Relief	1	
30	T0052377	Tip, Case Drain w/Relief	1	
31	T0052386	Dust Plug, Pioneer Black	7	
32	T0052387	Dust Cap, Motor Return Black	1	
33	T0052388	Dust Cap, Case Drain Black	1	
34	T0055125	Valve, Double Blocking	1	
35	T0055981	AD-06MFS-06FST w/ORF	1	
36	T0055987	Tube Assy, Crossover	1	
37	T0055988	Tube Assy, Crossover	1	



TA01791 Assy, Front Hitch

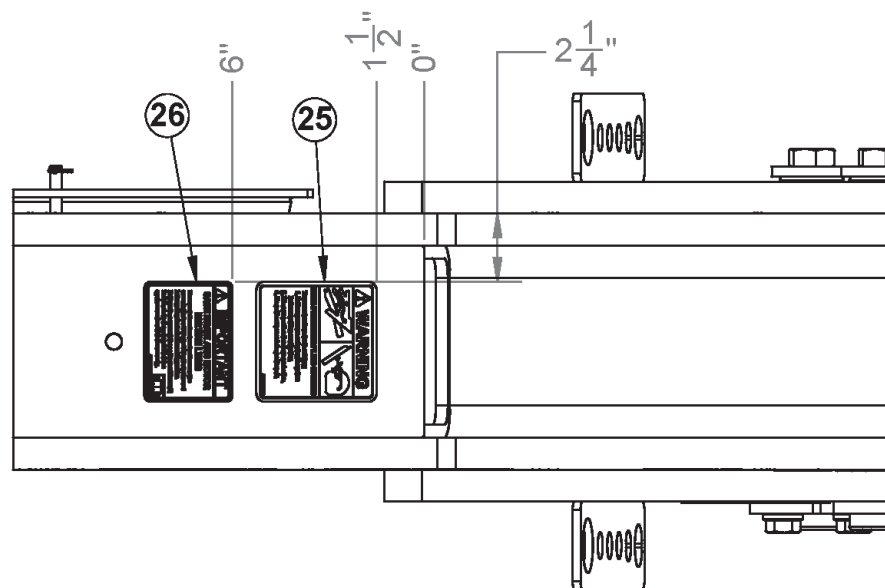
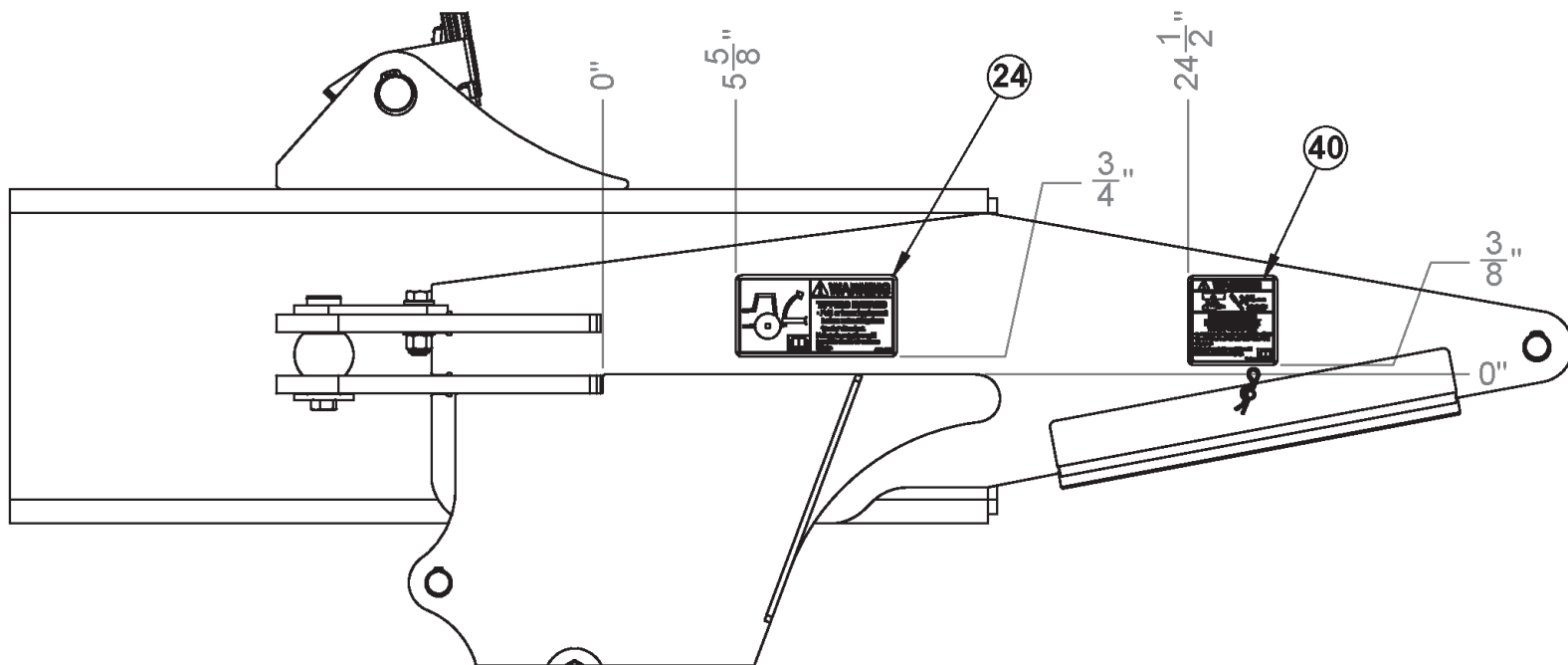
ITEM	PART NUMBER	DESCRIPTION	QTY	TORQUE (ft-lbs)
1	CLPIN-0.375X3.25Y	Clevis Pin, Ø3/8" X 3-1/4 YZ	1	
2	FW-SAE-0.375Y	Washer, Flat SAE 3/8" YZ	4	
3	FW-SAE-0.500Y	Washer, Flat SAE - 1/2-YZ	12	
7	FW-SAE-0.625Y	Washer, Flat-SAE-5/8	4	
5	HB-0.375-16X3.00Y8	HBolt-0.3750-16x3.000-YZ8	2	
6	HB-0.500-13X1.00Y8	Bolt, Hex Hd 1/2-13x1 YZ8	12	
7	HB-0.625-11X1.25Y8	Bolt, Hex Head-5/8-11x1.25-YZ8	2	
8	HB-0.625-11X2.25Y8	Bolt, Hex Head-5/8-11x2.25-YZ8	2	
9	HB-0.625-11X2.50Y8	Bolt, Hex Head-5/8-11x2.5-YZ8	2	
10	HB-0.875-9X1.75Y8	Bolt, Hex Hd 7/8-9x1-3/4-YZ8	2	
11	HDWSH-0.64X2.50Y	HD Washer 0.64 x 2.50	2	
12	HDWSH-0.89X2.50Y	HD Washer 0.89 x 2.50	2	
13	HPINCLIP-0.313 YZ	Hair Pin Clip-Ø5/16" YZ	1	
14	NLNUT-0.375-16Y8	Nut, Nylock 3/8-16 YZ8	2	
15	NLNUT-0.625-11Y8	Nut, Nylock-5/8-11-YZ8	4	
16	PIN-1.000X10.63Y	Pin-1.0000x10.625-YZ	1	
17	PIN-1.000X8.625Y	Pin-1.0000x8.6250-YZ	1	
18	PIN-1.50X4.50Y	Pin-1.50x4.50-YZ	1	
19	SRING-EXT-1.00	Ring, Retaining Ext Shaft-1.0"	2	
20	SRING-EXT-HD-1.00Y	SRING-EXT-HD-1.00Y	2	
21	SRING-EXT-HD-1.50Y	SRING-EXT-HD-1.50Y	2	
22	T0050854	Anti Rotation Insert	4	
23	T0051573	Decal, Warning-Machine Safety	1	
24	T0051575	Decal, Warning-Tipping Hazard	2	
25	T0051669	Decal, Warning-Hyd Fluid	1	
26	T0051702	Decal, Important-Case Drain	1	
27	T0053462	Decal, Warning-Machine Transp	1	
28	T0055737	Decal, S/N Yieldtrac (Generic)	1	
29	T0055769	Channel, Transport Lock	1	
30	T0056033	Decal, Important - Hose Color Chart	1	
31	T0056183	Block, Jack Slider	2	
32	TA00800	Slider Assembly	1	
33	TA00801	Assy, Slider	1	
34	TA00843	Assy, Slider	1	
35	TA01514	Assy, Hitch Pin With Lanyard	1	
36	TA02103	Assy, Row Lift Indicator	1	
37	TW000630	Pin Weldment	2	
38	TW000950	Pin Weldment	2	
39	TW001387	Wldmt, Hyd Front Hitch 66'	1	
40	T0056220	Decal, Warning Crush Hazard Hyd Hitch	2	



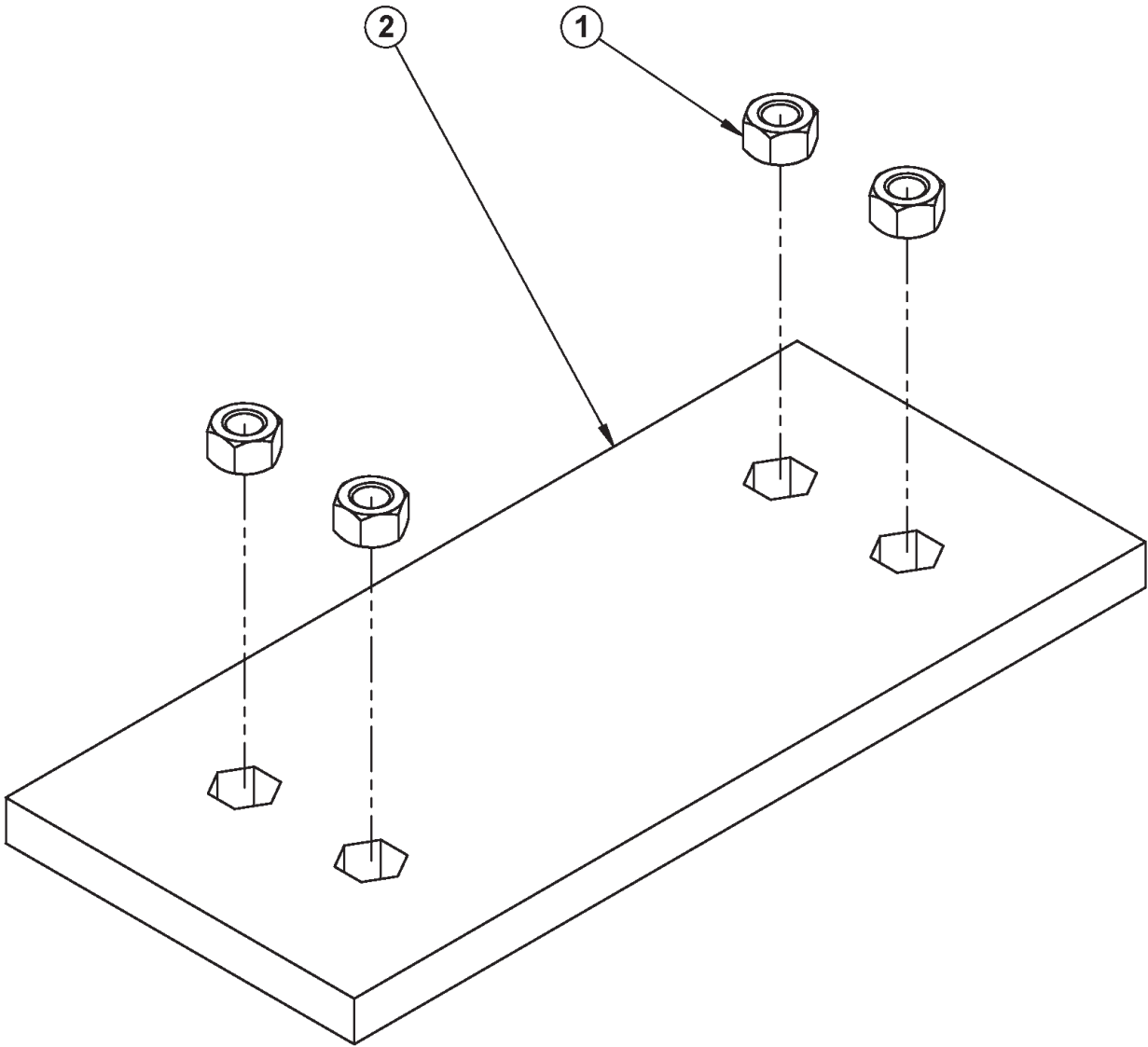


TA01791 Assy, Front Hitch

ITEM	PART NUMBER	DESCRIPTION	QTY.	TORQUE (ft-lbs)
23	T0051573	Decal, Warning-Machine Safety	1	
24	T0051575	Decal, Warning-Tipping Hazard	2	
25	T0051669	Decal, Warning-Hyd Fluid	1	
26	T0051702	Decal, Important-Case Drain	1	
27	T0053462	Decal, Warning-Machine Transp	1	
28	T0055737	Decal, S/N Yieldtrac (Generic)	1	
30	T0056033	Decal, Important - Hose Color Chart	1	
36	TA02103	Assy, Row Lift Indicator	1	
40	T0056220	Decal, Warning Crush Hazard Hyd Hitch	2	

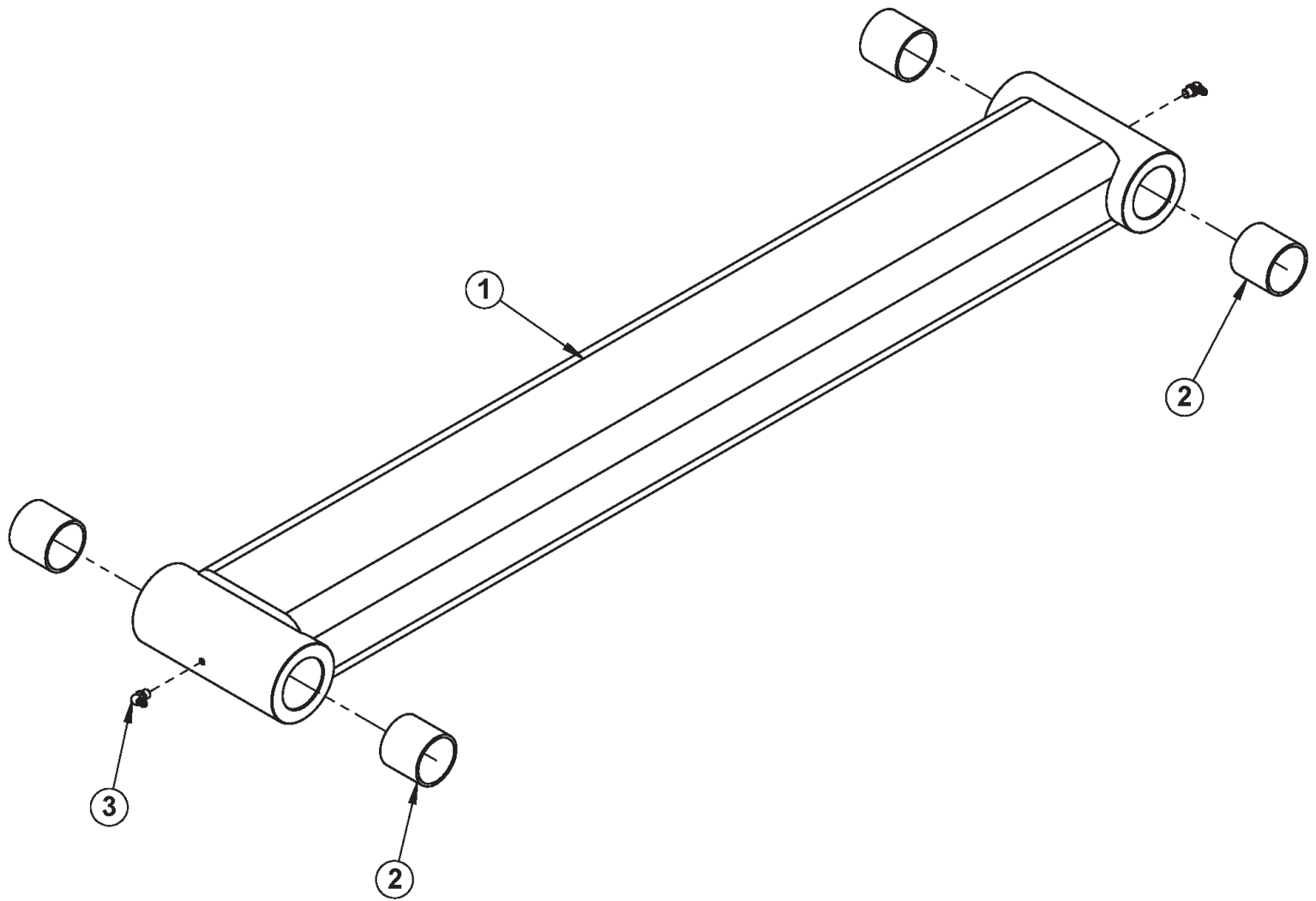


Top View



TA00800 Slider Assembly

ITEM	PART NUMBER	DESCRIPTION	QTY.	TORQUE (ft-lbs)
1	HNUT-0.500-13Y8	Nut, Hex 1/2-13 YZ8	4	
2	T0052284	Pad, Slider	1	

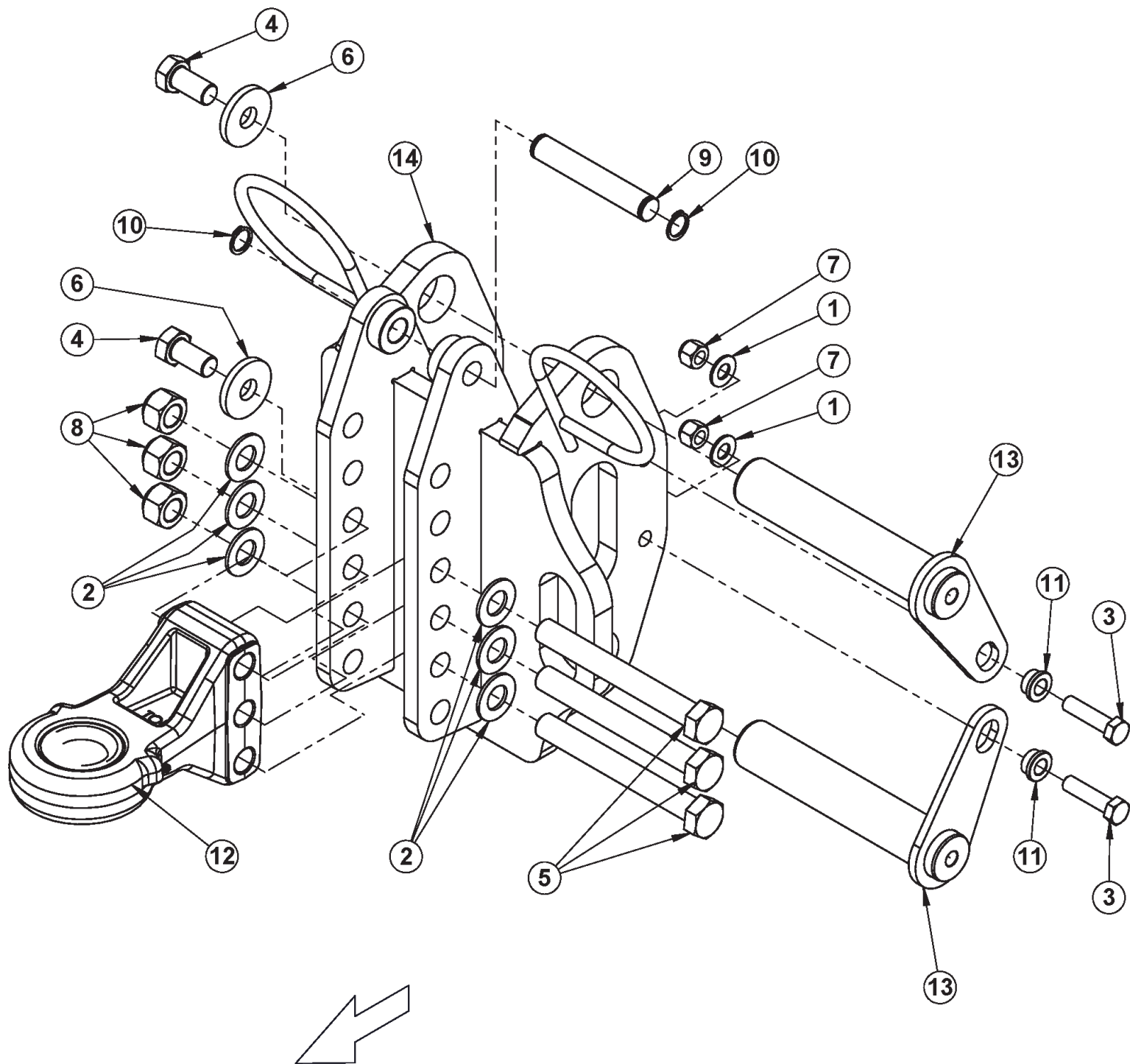


TA01513 Assy, Pivot Tube

ITEM	PART NUMBER	DESCRIPTION	QTY	TORQUE (ft-lbs)
1	TW001246	Wldmt, Front Hitch Parallel Arm	1	
2	PB-2.000X2.25X2.00	Polylube Bush, Ø2.00xØ2.25x2.00	4	
3	ZERK-0.250-28X90	Zerk, Grease 1/4-28x90 Deg	2	

Note:

1. **T=XXX** = Torque Expressed in ft-lbs (Use standard torque values from drawing T0000000 unless otherwise specified).
2. * Items marked with an asterisk are items that are included in that particular part or assembly.

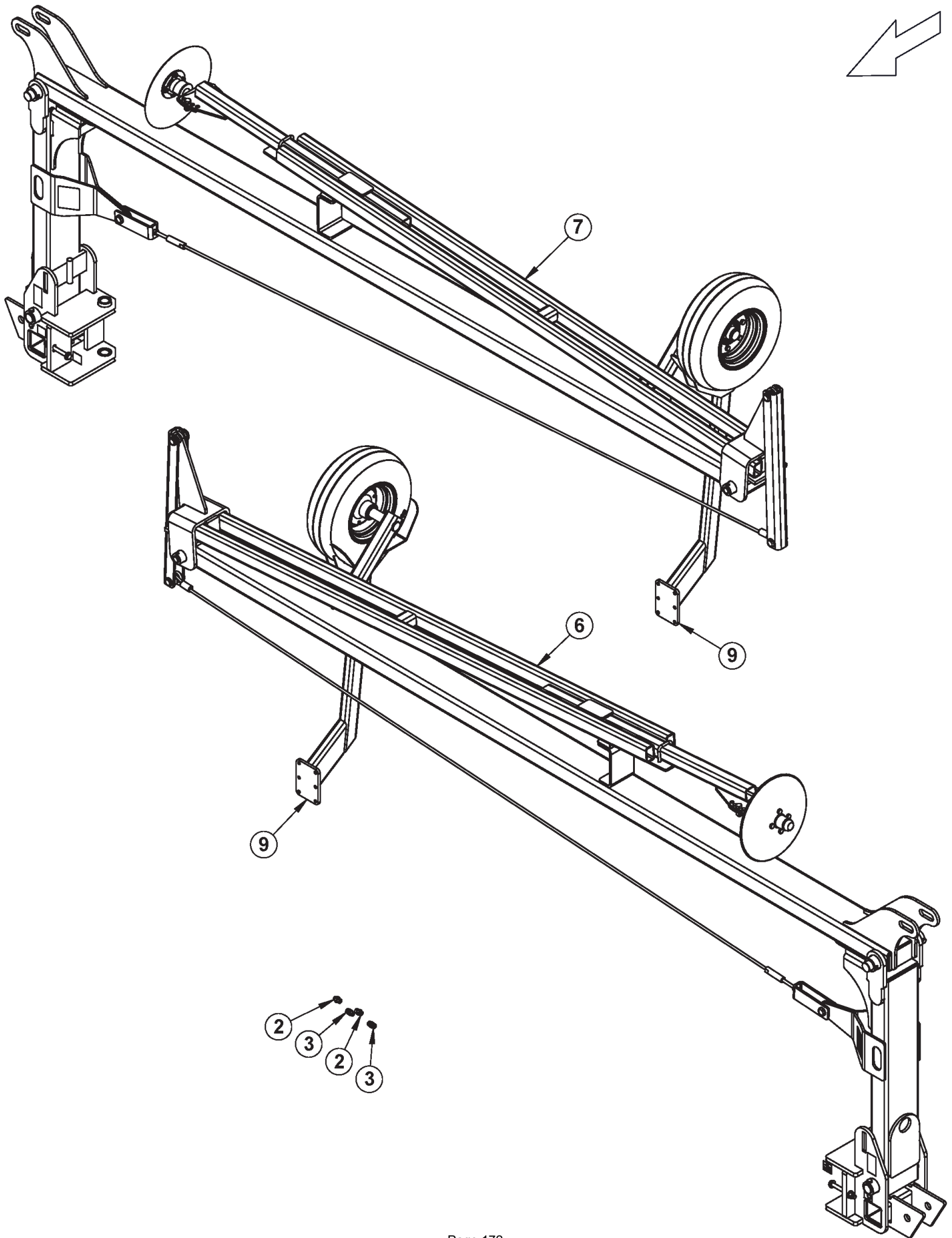
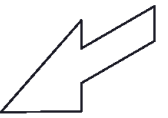


TA01511 Assy, Hitch

ITEM	PART NUMBER	DESCRIPTION	QTY.	TORQUE (ft-lbs)
1	FW-SAE-0.625Y	Washer, Flat SAE 5/8 YZ	2	
2	FW-SAE-1.000Y	Washer, Flat SAE 1 YZ	6	
3	HB-0.625-11X2.50Y8	Bolt, Hex Hd 5/8-11x2-1/2 YZ8	2	
4	HB-0.875-9X1.75Y8	Bolt, Hex Hd 7/8-9x1-3/4 YZ8	2	
5	HB-1.000-8X8.50Y8	Bolt, Hex Hd 1-8x8-1/2 YZ8	3	
6	HDWSH-0.89X2.50Y	HD Washer, 57/64x2-1/2 YZ	2	
7	NLNUT-0.625-11Y8	Nylon Lock Nut, 5/8-11 YZ8	2	
8	NLNUT-1.000-8Y8	Nylon Lock Nut, 1-8 YZ8	3	
9	PIN-1.000X5.75Y	Pin, 1x5-3/4 YZ	1	
10	SRING-EXT-HD-1.00Y	Retaining Ring, External 1 HD YZ	2	
11	T0050854	Anti Rotation Insert	2	
12	T0055173	Hitch. CAT 4 3-Hole (Option)	1	
12	T0053463	CAT 5 Ball Hitch Assy (Option)	1	
13	TW000950	Pin Weldment	2	
14	TW001252	Wldmt, Front Hitch	1	

Note:

1. [T=XXX] = Torque Expressed in ft-lbs (Use standard torque values from drawing T0000000 unless otherwise specified.
2. * Items marked with an asterisk are items that are included in that particular part or assembly.

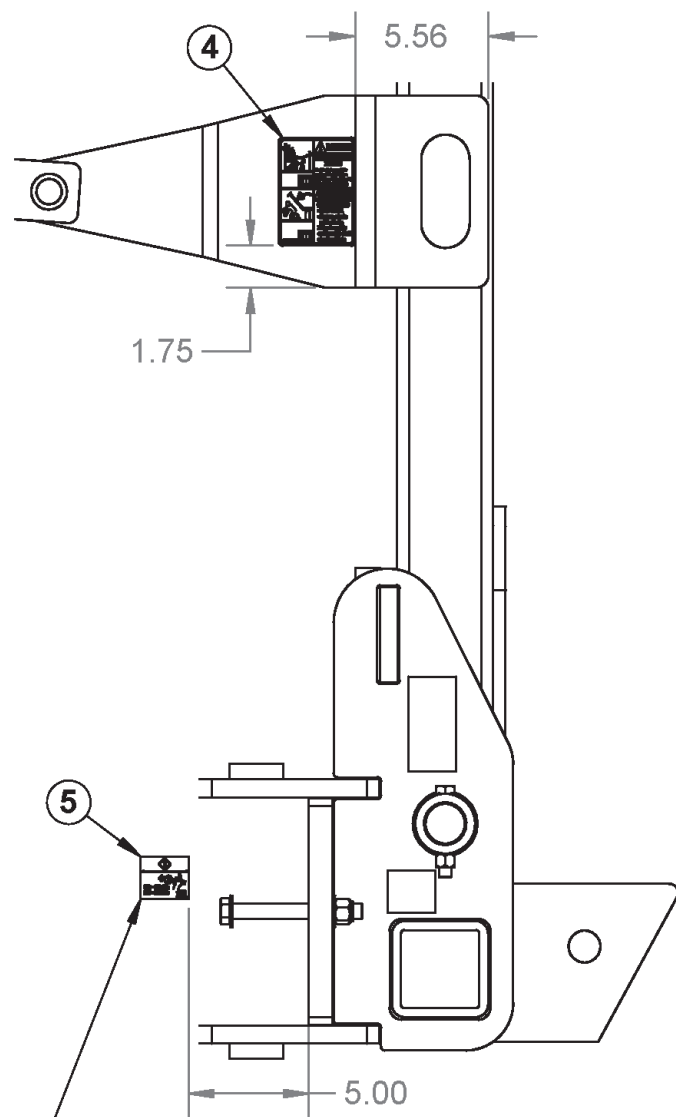


TA02091 Assy, 2000 60' Markers

ITEM	PART NUMBER	DESCRIPTION	QTY	TORQUE (ft-lbs)
1	90-44-0410	Decal, Reflector, Yellow-2x9	2	
2	AD-06MFS-08MB	Adapter, 06MFS-08MB	2	
3	AD-08MFS-08MB	Adapter, 08MFS-08MB	2	
4	T0051591	Decal, Danger-Warn Marker	2	
5	T0052464	Decal, Row Marker Bolt Torque	2	
6	TA02092	Assy, 2000 60' Marker LH	1	
7	TA02093	Assy, 2000 60' Marker RH	1	
8	TA02094	Hose Kit, 60' Marker (ORFS)	1	
9	TW001166	Wldmt, Marker Support	2	

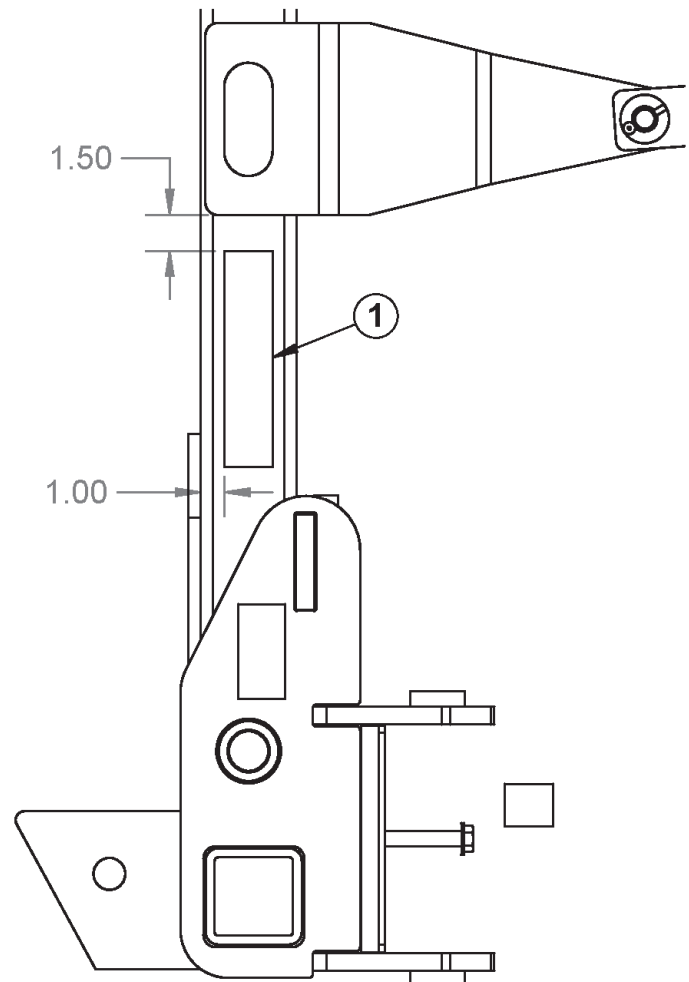
Note:

1. **T=XXX** = Torque Expressed in ft-lbs (Use standard torque values from drawing T0000000 unless otherwise specified.
2. * Items marked with an asterisk are items that are included in that particular part or assembly.

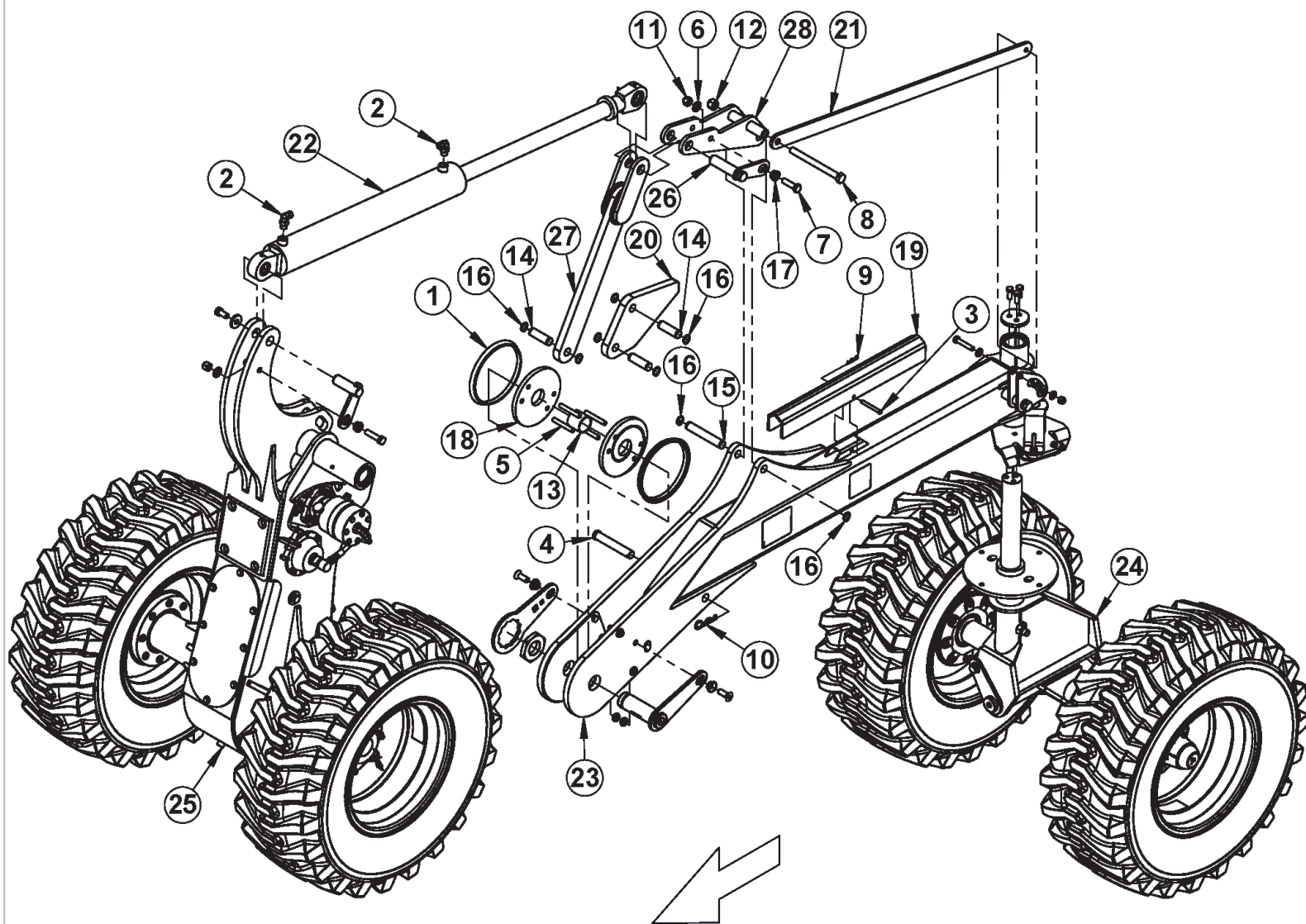


Center Vertically on 7x7 Tube.

Front View
Left Wing Row Marker
Decal Locations
(Repeat for Right Wing)



Rear View
Left Wing Row Marker
Decal Locations
(Repeat for Right Wing)

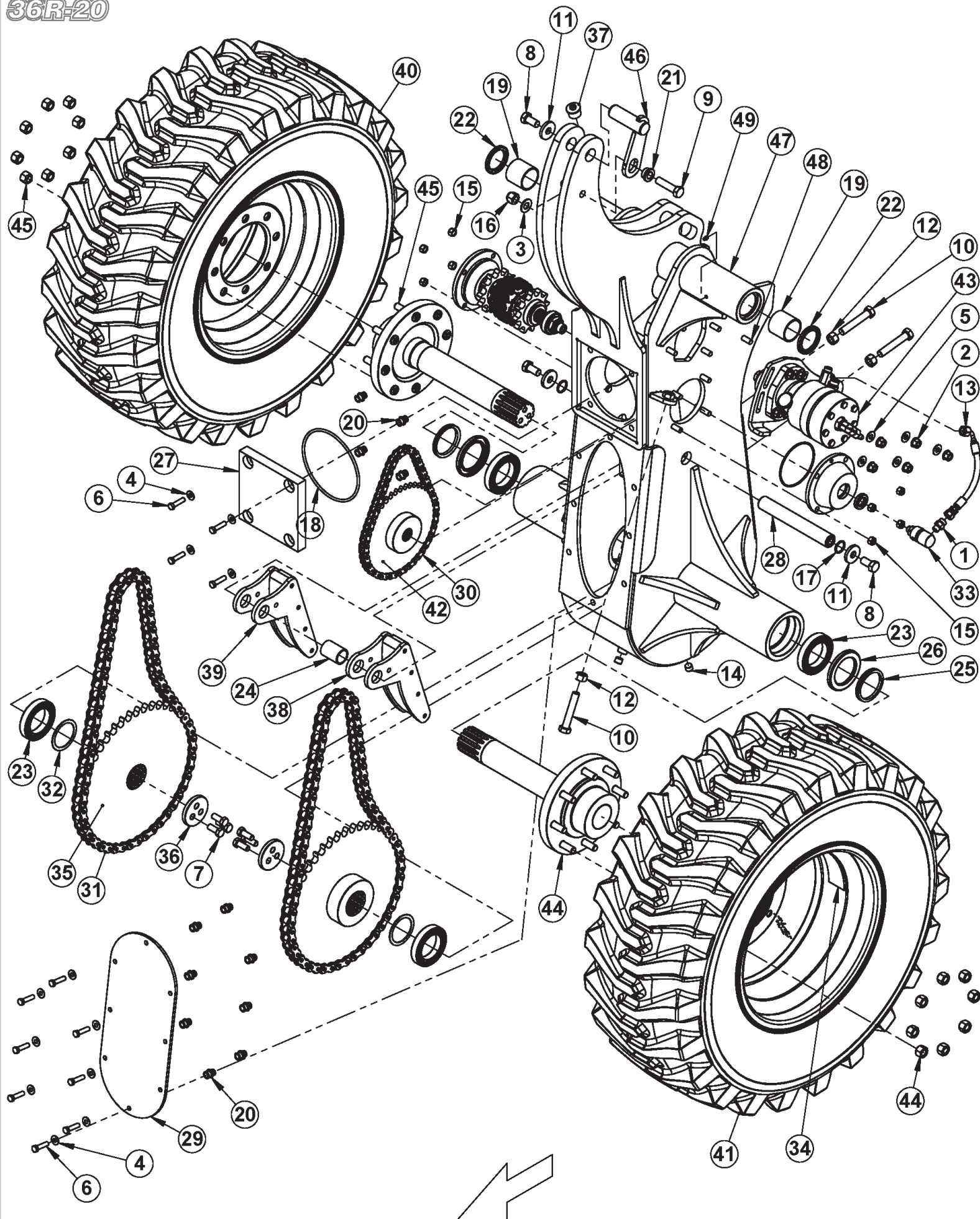


TA01907 Assy, 20" Dual Wing Wheel

ITEM	PART NUMBER	DESCRIPTION	QTY	TORQUE (ft-lbs)
1	433478A1	Seal, Rubber	2	
2	AD-08MFS-08MB-90	Adapter, 08MFS-08MB 90	2	
3	CLPIN-0.375X3.25Y	Clevis Pin, 3/8x3-1/4 YZ	1	
4	CLPIN-1.000X6.00Y	Clevis Pin, 1x6 YZ	1	
5	DPIN-0.500X3.500C	Dowell Pin, 1/2x3-1/2 CZ	4	
6	FW-SAE-0.625Y	Washer, Flat SAE 5/8 YZ	1	
7	HB-0.625-11X2.25Y8	Bolt, Hex Hd 5/8-11x2-1/4 YZ8	1	
8	HB-0.750-10X8.50Y8	Bolt, Hex Hd 3/4-10x8-1/2 YZ8	1	
9	HPINCLIP-0.313 YZ	Hair Pin Clip, 5/16 YZ	1	
10	HPINCLIP-1.000Y	Hair Pin Clip, 1 YZ	1	
11	NLNUT-0.625-11Y8	Nylon Lock Nut, 5/8-11 YZ8	1	
12	NLNUT-0.750-10Y8	Nylon Lock Nut, 3/4-10 YZ8	1	
13	PB-2.000X2.25X2.00	Bushing, Composite 2x2-1/4x2	1	
14	PIN-1.000X2.88Y	Pin, 1x2-7/8 YZ	3	
15	PIN-1.000X5.75Y	Pin, 1x5-3/4 YZ	1	
16	SRING-EXT-HD-1.00Y	Retaining Ring, External 1 HD YZ	8	
17	T0050854	Anti Rotation Insert	1	
18	T0051869	Plate, Grease Friction	2	
19	T0054600	Channel - Wing Cylinder Stop	1	
20	T0055919	Plate, Wing Wheel Back Stop	1	
21	T0055923	Plate, Brake Release Link	1	
22	TA01182	Cylinder, Hyd 3.75X26.75 Reph	1	
23	TA01892	Assy, Rear Caster Arm Dual Wheel	1	
24	TA01895	Assy, 20" Dual Wheel Caster	1	
25	TA01901	Assy, 20" Front Dual Wing Wheel	1	
26	TW000905	Pin Weldment	1	
27	TW001442	Wdmt, Dog Bone Link	1	
28	TW001443	Wdmt, Link	1	

Note:

1. [T=XXX] = Torque Expressed in ft-lbs (Use standard torque values from drawing T0000000 unless otherwise specified.
2. * Items marked with an asterisk are items that are included in that particular part or assembly.

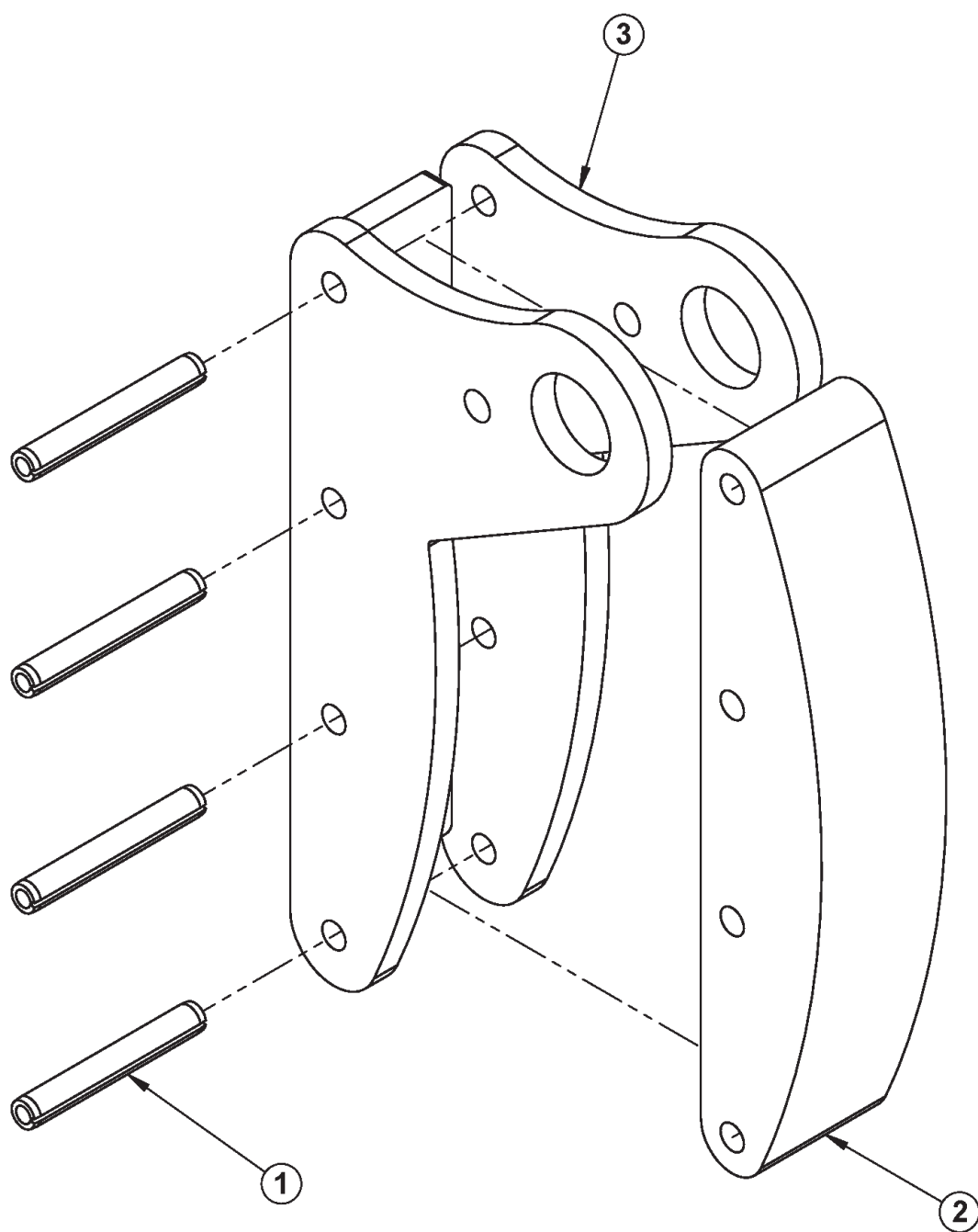


TA01901 Assy, 20" Front Dual Wing Wheel

ITEM	PART NUMBER	DESCRIPTION	QTY	TORQUE (ft-lbs)
1	AD-06MFS-06MB	AD-06MFS-06MB	1	
2	FLTLN-0.438-20C8	Nut, TL Hex Flange 7/16-20 CZ8	5	
3	FW-SAE-0.625Y	Washer, Flat-SAE-5/8	1	
4	FW-USS-0.313Y	Washer, Flat USS 5/16-YZ	12	
5	FW-USS-0.375YTH	Washer, FI 3/8 USS Th-Hrd YZ	5	
6	HB-0.375-16X1.50Y8	Bolt, Hex Hd 3/8-16x1-1/2-YZ8	12	
7	HB-0.500-13X1.25Y8	Bolt, Hex Hd 1/2-13x1-1/4 YZ8	6	
8	HB-0.625-11X1.25Y8	Bolt, Hex Head-5/8-11x1.25-YZ8	3	
9	HB-0.625-11X2.50Y8	Bolt, Hex Head-5/8-11x2.5-YZ8	1	
10	HBFT-0.625-11X3.50Y8	HBolt-0.6250-11x3.500-FT-YZ8	3	
11	HDWSH-0.64X1.75Y	HD Washer 0.64 x 1.75	3	
12	HNUT-0.625-11Y8	Nut, Hex 5/8-11 YZ8	3	
13	HS04-009-06FS-06FS90-A	Hose 0.25-009-06FS-06FS90	1	
14	HSPLUG-0.375-NPTFC	Plug, Hex Skt 3/8-18 NPTF CZ	2	
15	NLNUT-0.438-20Y8	NLNut-7/16-20-YZ8	8	
16	NLNUT-0.625-11Y8	Nut, Nylock-5/8-11-YZ8	1	
17	ORING-1.250X.125	O-Ring, Ø1-1/4OD X Ø1/8	2	
18	ORING-7.375X.188-N	O-Ring, Ø7.38ODxØ.188 Nitrile	1	
19	PB-2.000X2.25X2.00	Polyube Bush, Ø2.00xØ2.25x2.00	2	
20	RN-0.375-16-.31-.44-Y	Rivnut, 3/8-16 UNC .31-.44 GR	12	
21	T0050854	Anti Rotation Insert	1	
22	T0051585	2.00 Grease Seal	2	
23	T0053142	Ball Bearing, 65mm	4	
24	T0053144	Bushing, Tensioner Pivot	1	
25	T0053269	Face Seal	2	
26	T0053270	Seal	2	
27	T0053552	Slider Block	1	
28	T0053553	Bushing, Tensioner Pivot	1	
29	T0053634	Cover	1	
30	T0053925	#50 Roller Chain 56P	1	
31	T0054278	72 Pitches 80 Pitch Chain	2	
32	T0054282	Drive Wheel Spacer	2	
33	T0054317	Adapter, 06MB-06FB-90 Swivel	1	
34	T0055226	Decal, 20 psi & 175 Lug Torque	2	
35	T0055821	Sprocket, 45T #80 Machined	2	
36	T0055980	Washer, 3 Bolt Drive Axle	2	
37	T0056101	Plug, 1.125" Expansion	1	
38	TA01089	Tensioner, Wheel Drive	1	
39	TA01089	Tensioner, Wheel Drive	1	
40	TA01371	Wheel Assy	1	
41	TA01372	Wheel Assy	1	
42	TA01388	Assy, Diff Lock Shaft	1	
43	TA01913	Assy, Front WW Motor	1	
44	TA01919	Assy, 15/20 Wing Wheel Hub	1	
45	TA01919	Assy, 15/20 Wing Wheel Hub	1	
46	TW001106	Pin Weldment	1	
47	TW001438	Wldmt, 20" Front Dual Wing Wheel	1	
48	WS-0.438-20X1.5C8	Stud, Wheel 7/16-20x1.5 CZ	13	
49	ZERK-0.250-28	Zerk, 1/4-28	2	

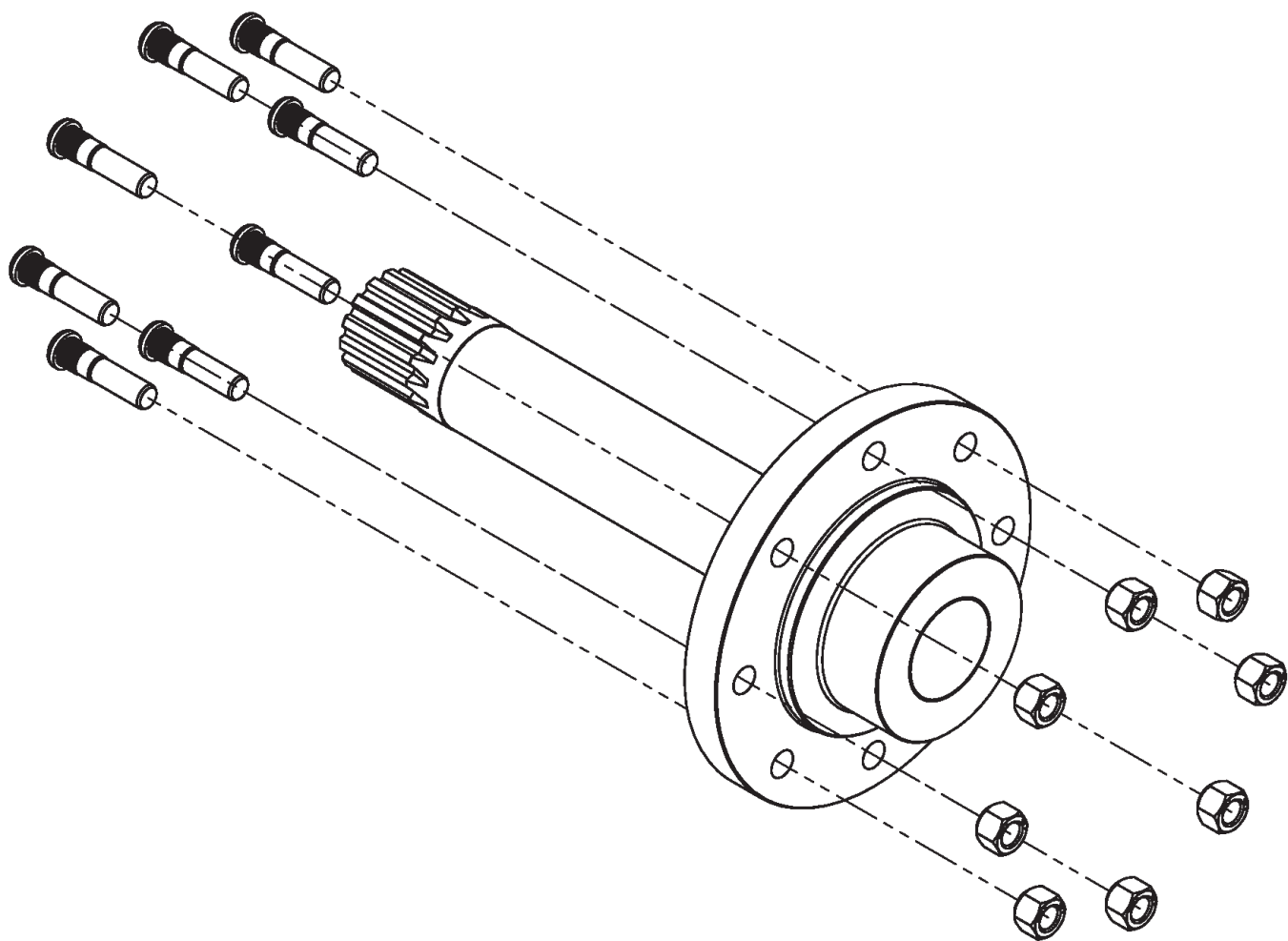
Note:

1. [T=XXX] = Torque Expressed in ft-lbs (Use standard torque values from drawing T0000000 unless otherwise specified.
2. * Items marked with an asterisk are items that are included in that particular part or assembly.
3. All wheel studs inside wing wheel weldment to be sealed with silicone.



TA01089 Tensioner, Wheel Drive

ITEM	PART NUMBER	DESCRIPTION	QTY	TORQUE (ft-lbs)
1	RPIN-.375X2.75	Pin, Spring 3/8x2-3/4	4	
2	T0052064	Slide, Chain Tensioner	1	
3	TW001031	Tensioner Weldment	1	

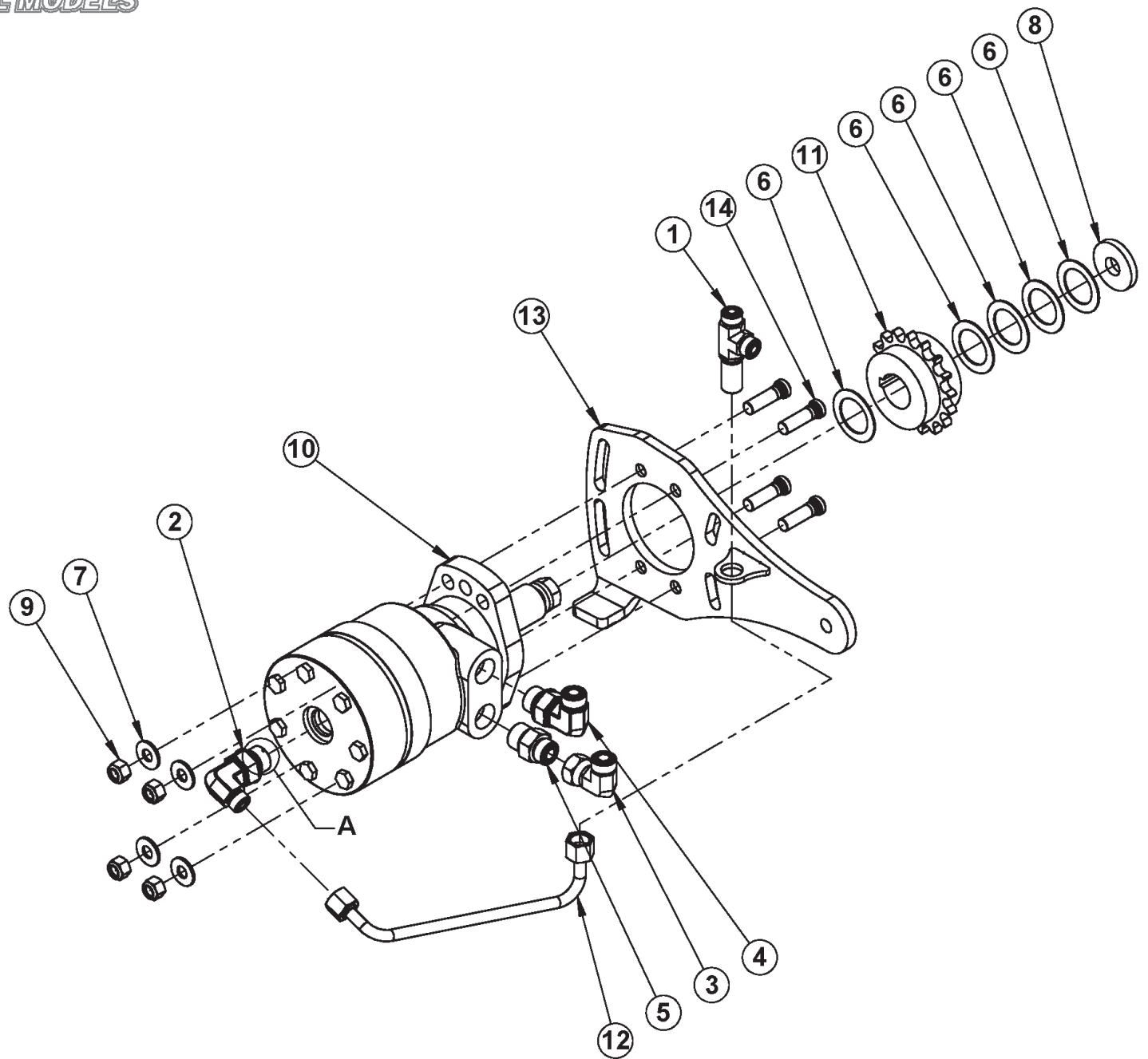


TA01919 Assy, 15/20 Wing Wheel Hub

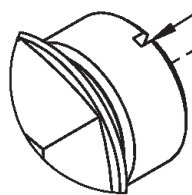
ITEM	PART NUMBER	DESCRIPTION	QTY	TORQUE (ft-lbs)
1	TW001460	Axle, 15/20 Wing Wheel	1	
2	WHNUT-0.625-18C8	Nut, Wheel 5/8-18 Gr8 CZ	8	
3	WS-0.625-18X2.50C8	Stud, Wheel 5/8-18 Gr8 CZ	8	

Note:

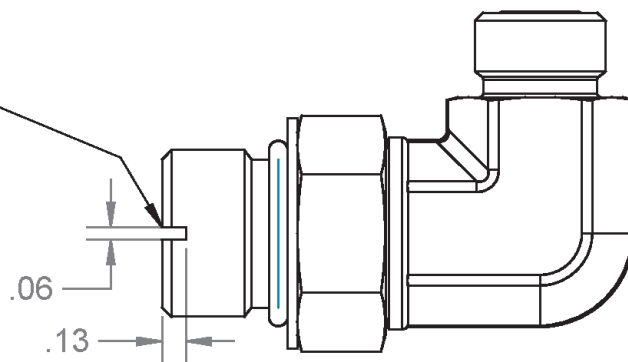
1. **T=XXX** = Torque Expressed in ft-lbs (Use standard torque values from drawing T0000000 unless otherwise specified.
2. * Items marked with an asterisk are items that are included in that particular part or assembly.



Cut Small Slit in End of Item 2
Clean Thoroughly Before Installation



DETAIL A
SCALE 1 : 1

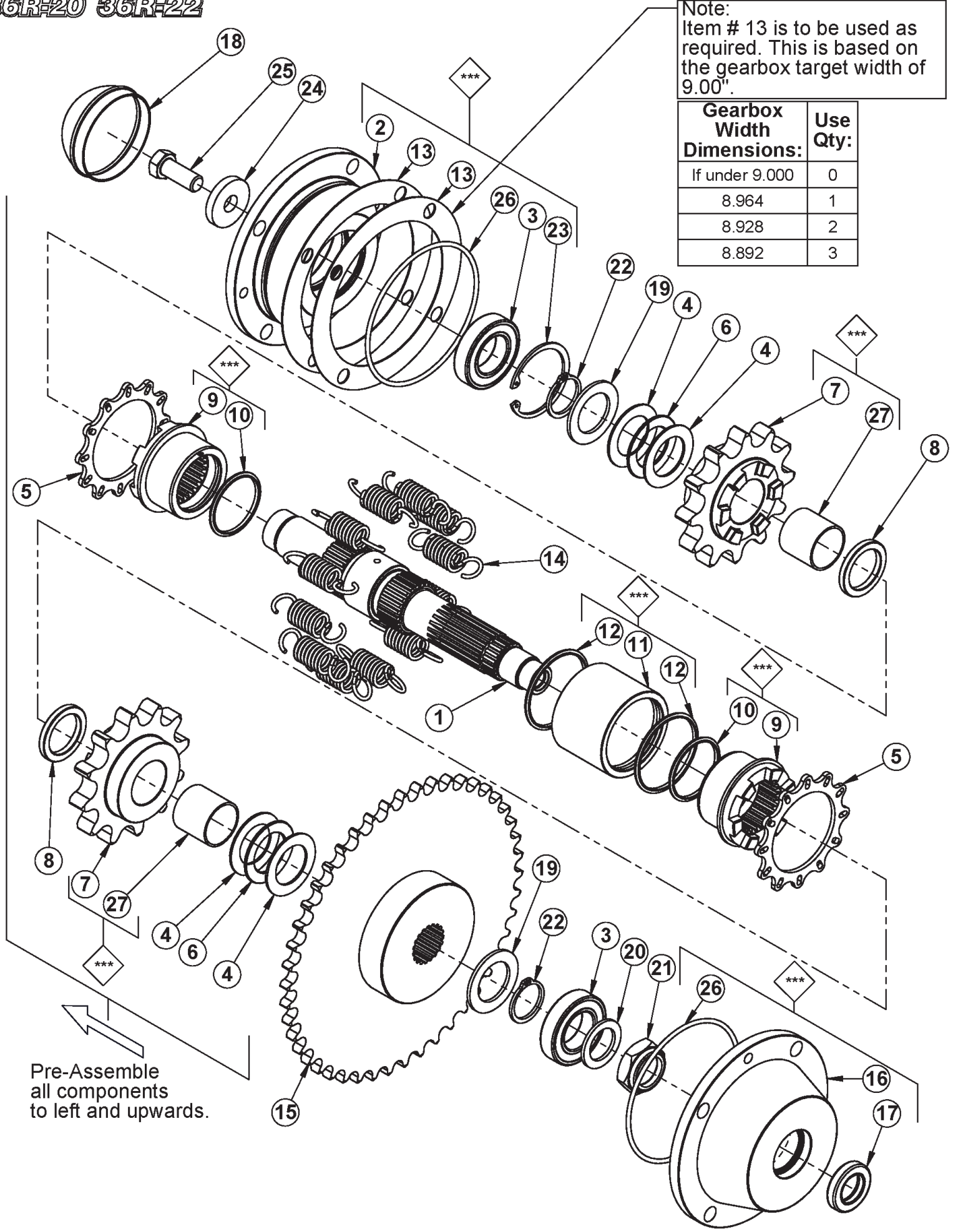


TA01913 Assy, Front WW Motor

ITEM	PART NUMBER	DESCRIPTION	QTY.	TORQUE (ft-lbs)
1	AD-06MFS-06MFS-06MFS-BHR	AD-06MFS-06MFS-06MFS-BHR	1	
2	AD-06MFS-10MB-90	AD-06MFS-10MB-90	1	
3	AD-08MFS-08FST-90	AD-08MFS-08FST-90	1	
4	AD-08MFS-10MB-90	AD-08MFS-10MB-90	1	
5	AD-08MFS-10MB	AD-08MFS-10MB	1	
6	FW-MB-1.250Y-18GA	Washer, Flat MB 1.250 18GA YZ	5	
7	FW-USS-0.375YTH	Washer, FI 3/8 USS Th-Hrd YZ	4	
8	HDWSH-0.64X1.75Y	HD Washer 0.64 x 1.75	1	
9	NLNUT-0.438-20Y8	NLNut-7/16-20-YZ8	4	
10	T0053927	Motor, Wheel Drive 260cc	1	
11	T0055820	Sprocket, 17T #50 Machined	1	
12	T0055976	Tube Assy, Wing Wheel Motor	1	
13	TW001452	Wdmt, Front WW Motor Mount	1	
14	WS-0.438-20X1.5C8	Stud, Wheel 7/16-20x1.5 CZ	4	

Note:
Item # 13 is to be used as required. This is based on the gearbox target width of 9.00".

Gearbox Width Dimensions:	Use Qty:
If under 9.000	0
8.964	1
8.928	2
8.892	3

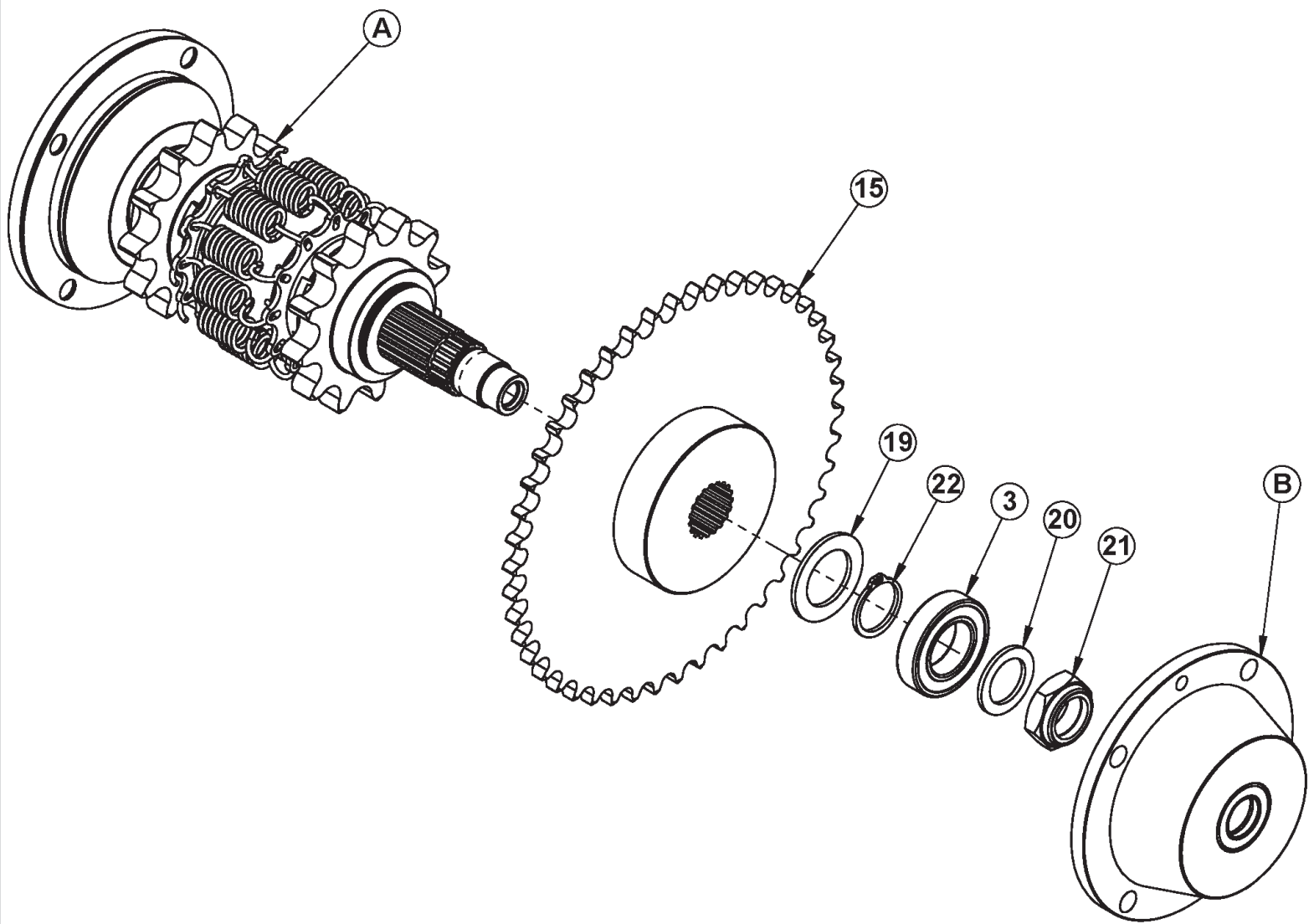


TA01388 Assy, Diff Lock Shaft (Sheet 1 of 2)

ITEM	PART NUMBER	DESCRIPTION	QTY	TORQUE (ft-lbs)
1	T0054982	Shaft, Diff Lock	1	
2	T0054267	Cover, Wing Whl Shaft	1	
3	T0053561	Brg, Ball 30mm Deep Groove	2	
4	T0054272	Thrust Washer	4	
5	T0054265	Spring Retainer	2	
6	T0054274	Needle Thrust Bearing	2	
7	T0054256	12 Tooth 80 Chain Sprocket	2	
8	T0054281	Spacer, 1.72" OD X .200"	2	
9	T0054254	Shaft Collar Splined	2	
10	T0054276	Seal Kit - 1.75 Diameter	2	
11	T0054266	Sleeve	1	
12	T0054277	Seal Kit - 2.25 Diameter	2	
13	T0054273	Shim	2	
14	T0054275	Spring, Extension	12	
15	T0053758	Sprocket, 46T #50 Splined	1	
16	T0054985	Cover, Wing Wheel	1	
17	T0054983	Seal	1	
18	T0051973	Ag Dust Cap	1	
19	T0054439	Spacer	2	
20	T0054984	Washer	1	
21	NLJNUT-1.000-14Y8	Nut, Nylock Jam 1-14 YZ8	1	
22	SRING-EXT-HD-1.188Y	SRING-EXT-HD-1.188Y	2	
23	SRING-INT-M55	Snap Ring M55	1	
24	HDWSH-0.50X1.50	HD Washer 0.50 x 1.50	1	
25	HB-0.500-13X1.25Y8	Bolt, Hex Hd 1/2-13x1-1/4 YZ8	1	
26	ORING-4.500X.125	O-Ring, Ø4.50 OD X Ø.125	2	
27	PB-1.250X1.38X1.25	Bush, Polygon 1.25x1.375x1.25	2	

Notes:

1. *** Pre-Assemble these components.



Pre-Assembly before insertion

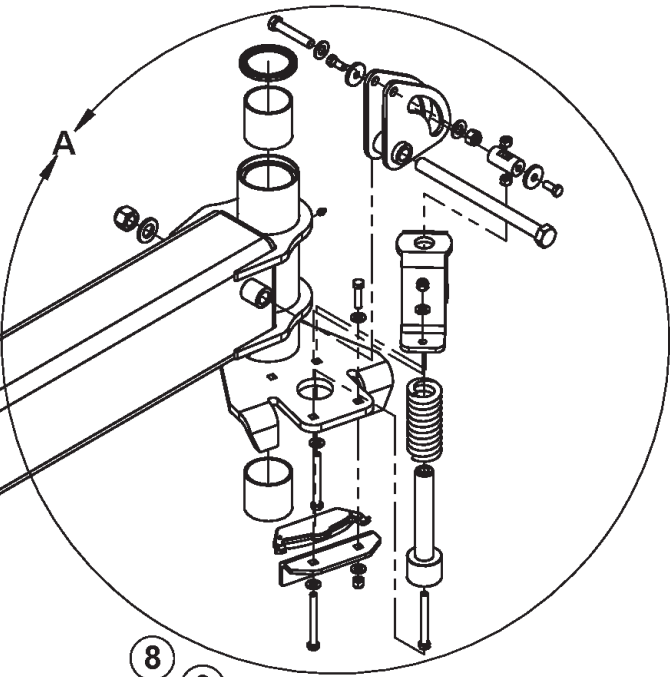
TA01388 Assy, Diff Lock Shaft (Sheet 2 of 2)

ITEM	PART NUMBER	DESCRIPTION	QTY	TORQUE (ft-lbs)
1	T0054982	Shaft, Diff Lock	1	
2	T0054267	Cover, Wing Whl Shaft	1	
3	T0053561	Brg, Ball 30mm Deep Groove	2	
4	T0054272	Thrust Washer	4	
5	T0054265	Spring Retainer	2	
6	T0054274	Needle Thrust Bearing	2	
7	T0054256	12 Tooth 80 Chain Sprocket	2	
8	T0054281	Spacer, 1.72" OD X .200"	2	
9	T0054254	Shaft Collar Splined	2	
10	T0054276	Seal Kit - 1.75 Diameter	2	
11	T0054266	Sleeve	1	
12	T0054277	Seal Kit - 2.25 Diameter	2	
13	T0054273	Shim	2	
14	T0054275	Spring, Extension	12	
15	T0053758	Sprocket, 46T #50 Splined	1	
16	T0054985	Cover, Wing Wheel	1	
17	T0054983	Seal	1	
18	T0051973	Ag Dust Cap	1	
19	T0054439	Spacer	2	
20	T0054984	Washer	1	
21	NLJNUT-1.000-14Y8	Nut, Nylock Jam 1-14 YZ8	1	
22	SRING-EXT-HD-1.188Y	SRING-EXT-HD-1.188Y	2	
23	SRING-INT-M55	Snap Ring M55	1	
24	HDWSH-0.50X1.50	HD Washer 0.50 x 1.50	1	
25	HB-0.500-13X1.25Y8	Bolt, Hex Hd 1/2-13x1-1/4 YZ8	1	
26	ORING-4.500X.125	O-Ring, Ø4.50 OD X Ø.125	2	
27	PB-1.250X1.38X1.25	Bush, Polygon 1.25x1.375x1.25	2	

Note:
Pre-Assemble as shown into sub assemblies.

"A" Will consist of the following Item numbers:
1,2,3,4,5,6,7,8,9,10,11,12,13,14,18,19, 20, 22, 23, 24, 25,

"B" Will consist of the following Item numbers:
3, 16, 17, 21, 24



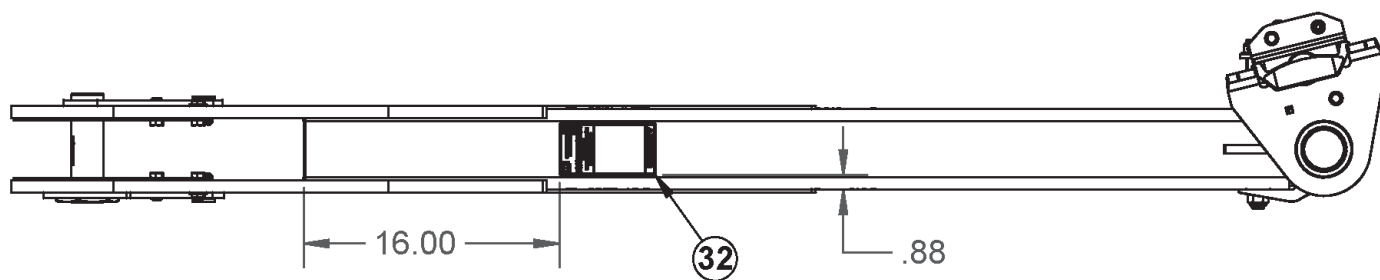
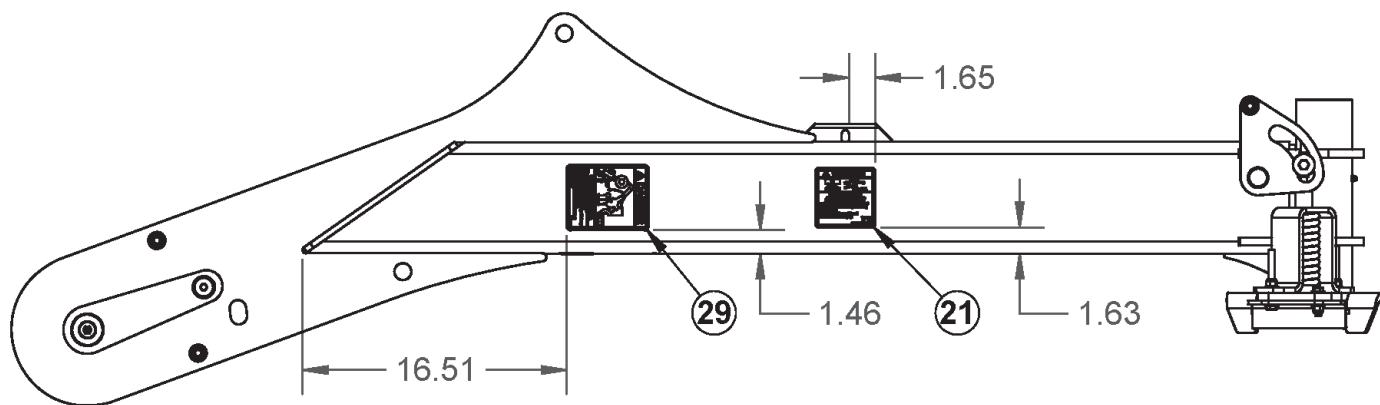
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TA01892 Assy, Rear Caster Arm Dual Wheel

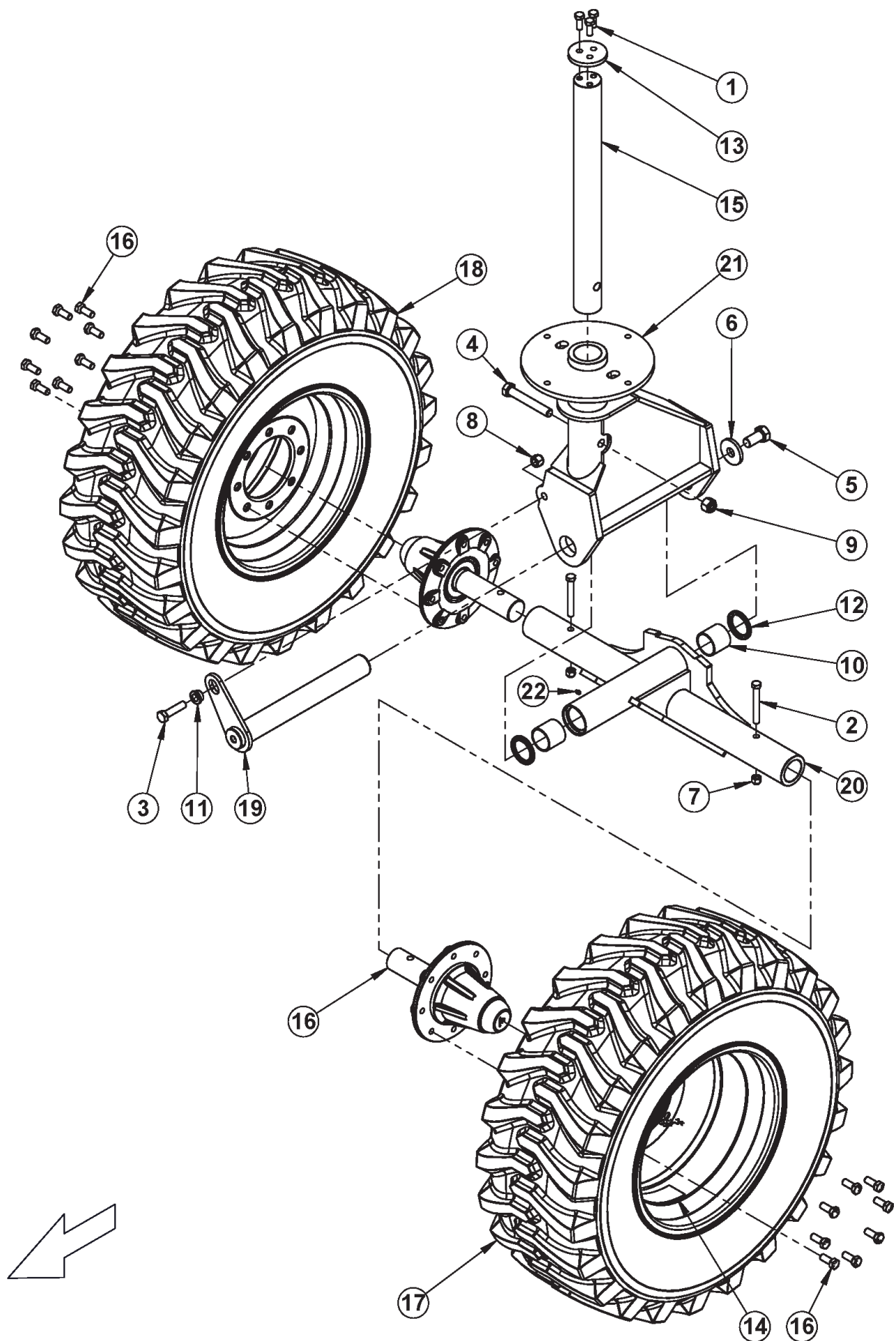
ITEM	PART NUMBER	DESCRIPTION	QTY.	TORQUE (ft-lbs)
1	FHSCS-0.625-11X1.75Y8	FHSHCS 5/8-11x1-3/4-YZ	2	
2	FW-SAE-0.375Y	Washer, Flat SAE 3/8" YZ	6	
3	FW-SAE-0.500Y	Washer, Flat SAE - 1/2-YZ	6	
4	FW-SAE-0.750Y	Washer, Flat-SAE 3/4 YZ	1	
5	HB-0.375-16X0.88Y8	Bolt, Hex Hd 3/8-16x7/8-YZ8	2	
6	HB-0.375-16X1.50Y8	Bolt, Hex Hd 3/8-16x1-1/2-YZ8	1	
7	HB-0.500-13X1.38Y8	Bolt, Hex Hd 1/2-13x1-3/8 YZ8	4	
8	HB-0.500-13X2.75Y8	Bolt, Hex Hd 1/2-13x2-3/4 YZ8	1	
9	HB-0.750-10X10.00Y8	Bolt, Hex Hd-3/4-10x10-YZ8	1	
10	HBFT-0.375-16X3.50Y8	Bolt, Hex Hd 3/8-16x3-1/2FTYZ8	3	
11	HDWSH-0.375X1.375Y	HD Washer 0.375 x 1.375	2	
12	HNUT-0.375-16Y8	Nut, Hex 3/8-16 YZ8	2	
13	JNUT-2.0-12x.60Y5	JNut-2.0000-12 x .60-YZ8	1	
14	NLJNUT-0.500-13Y8	Nut, Nylock Jam 1/2-13 YZ8	4	
15	NLJNUT-0.625-11Y8	Nut, Nylock Jam-5/8-11-YZ8	2	
16	NLNUT-0.375-16Y8	Nut, Nylock 3/8-16 YZ8	3	
17	NLNUT-0.500-13Y8	Nut, Nylock 1/2-13 YZ8	1	
18	NLNUT-0.750-10Y8	Nut, Nylock 3/4-10-YZ8	1	
19	PB-2.500X2.75X2.50	Bush, Polygon 2.500x2.75x2.50	2	
20	T0051584	2.50 Grease Seal	1	
22	T0051868	Plate, Friction Wear	2	
23	T0053696	Bracket, Spring Retainer	1	
24	T0053697	Bracket, Brake Pad Retainer	1	
25	T0053700	Anchor	1	
26	T0053701	Piston	1	
27	T0053702	Spring, Compression	1	
28	T0053706	Brake Pad Piston Side	1	
30	T0054627	Anti Rotation Insert	2	
31	T0054628	Plate, Locking 12Pt	1	
33	TW000986	Wdmt, Spring Release	1	
34	TW001201	Pin Weldment	1	
35	TW001433	Wdmt, Rear VW Arm Dual Short	1	
36	ZERK-0.125-27-NPT	Zerk,-1/8-27-NPT	1	
37	ZERK-0.250-28	Zerk, 1/4-28	1	

Note:

1. [T=XXX] = Torque Expressed in ft-lbs (Use standard torque values from drawing T0000000 unless otherwise specified.
2. * Items marked with an asterisk are items that are included in that particular part or assembly.



TA01892 Assy, Rear Caster Arm Dual Wheel				
ITEM	PART NUMBER	DESCRIPTION	QTY	TORQUE (ft-lbs)
21	T0051737	Decal,Warn CrshHaz Serv WngWhl	2	
29	T0053942	Decal, Danger-Wing Crsh Hzd	2	
32	T0053939	Decal, Warn Crsh Wng Whl Set	1	

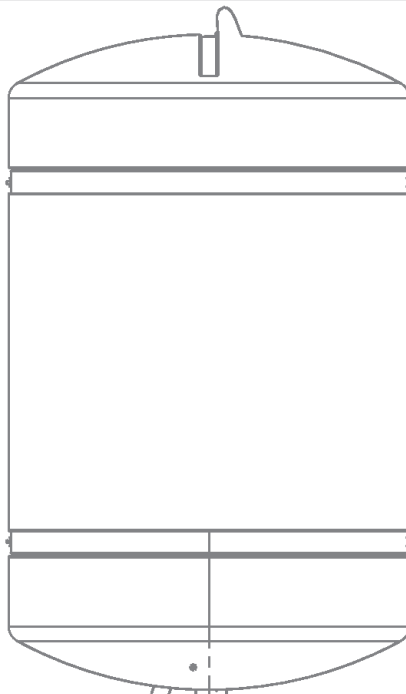


TA01895 Assy, 20" Dual Wheel Caster

ITEM	PART NUMBER	DESCRIPTION	QTY	TORQUE (ft-lbs)
1	HB-0.500-13X1.25Y8	Bolt, Hex Hd 1/2-13x1-1/4 YZ8	3	
2	HB-0.500-13X4.00Y8	Bolt, Hex Hd 1/2-13x4 YZ8	2	
3	HB-0.625-11X2.50Y8	Bolt, Hex Head-5/8-11x2.5-YZ8	1	
4	HB-0.750-10X5.00Y8	Bolt, Hex Hd 3/4-10x5-YZ8	1	
5	HB-0.875-9X1.75Y8	Bolt, Hex Hd 7/8-9x1-3/4-YZ8	1	
6	HDWSH-0.89X2.50Y	HD Washer 0.89 x 2.50	1	
7	NLNUT-0.500-13Y8	Nut, Nylock 1/2-13 YZ8	2	
8	NLNUT-0.625-11Y8	Nut, Nylock-5/8-11-YZ8	1	
9	NLNUT-0.750-10Y8	Nut, Nylock 3/4-10-YZ8	1	
10	PB-2.000X2.25X2.00	Polylube Bush, Ø2.00xØ2.25x2.00	2	
11	T0050854	Anti Rotation Insert	1	
12	T0051585	2.00 Grease Seal	2	
13	T0054041	Washer, RU Pivot	1	
14	T0055226	Decal, 20 psi & 175 Lug Torque	2	
15	T0055907	Dual Wheel Caster Shaft	1	
16	TA01205	Assy, 8 Bolt Hub & Spindle	2	
17	TA01371	Wheel Assy	1	
18	TA01372	Wheel Assy	1	
19	TW000794	Pin Weldment	1	
20	TW001200	Wldmt, 15/20 Rear Caster Axle	1	
21	TW001436	Wldmt, Dual Wheel Top Caster	1	
22	ZERK-0.250-28	Zerk, 1/4-28	1	

Note:

1. **T=XXX** = Torque Expressed in ft-lbs (Use standard torque values from drawing T0000000 unless otherwise specified.
2. * Items marked with an asterisk are items that are included in that particular part or assembly.



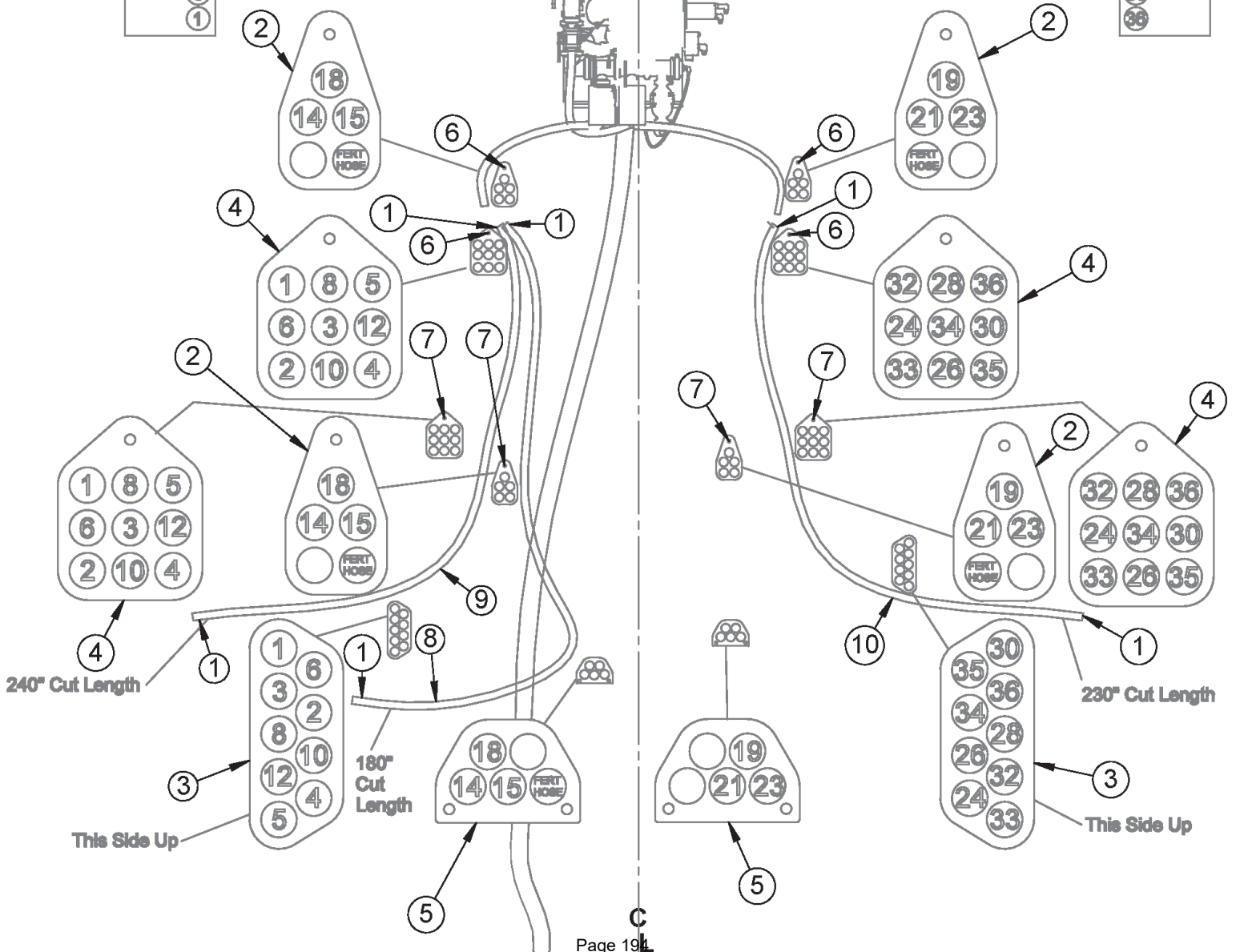
Forward
Direction
of Travel



Left Bulk
Seed Distributor



Right Bulk
Seed Distributor



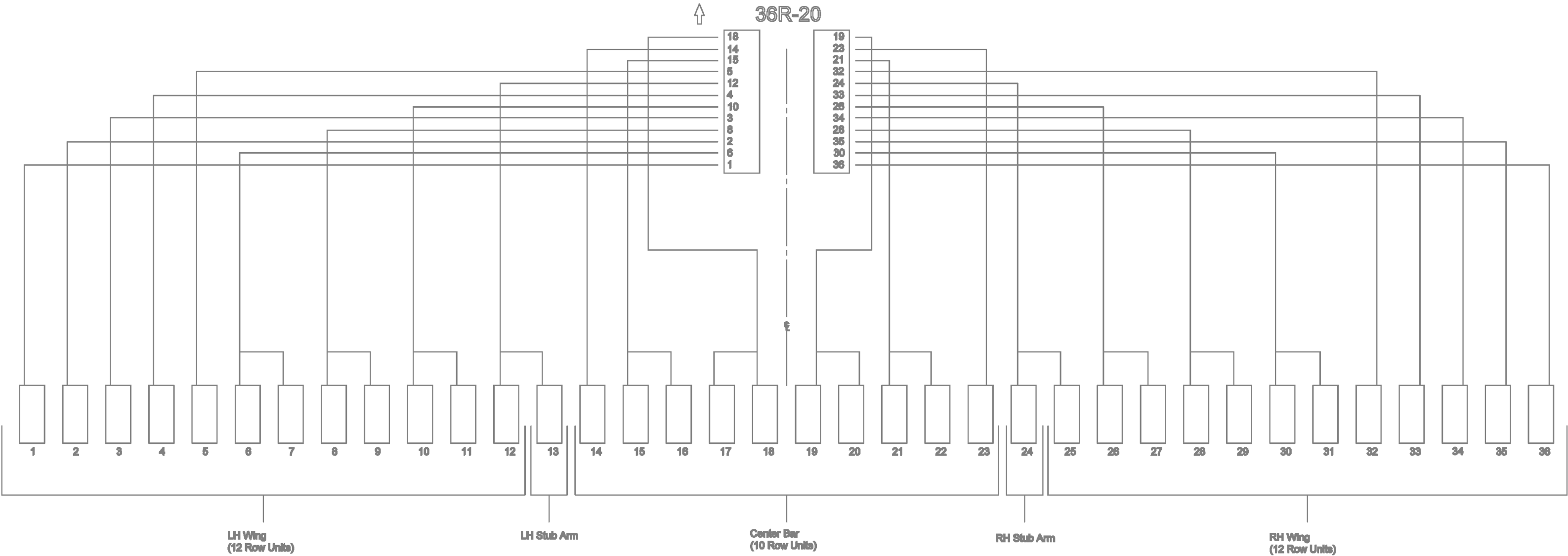
T0056229 Fertilizer & Seed Hose Routing Thru Hangers

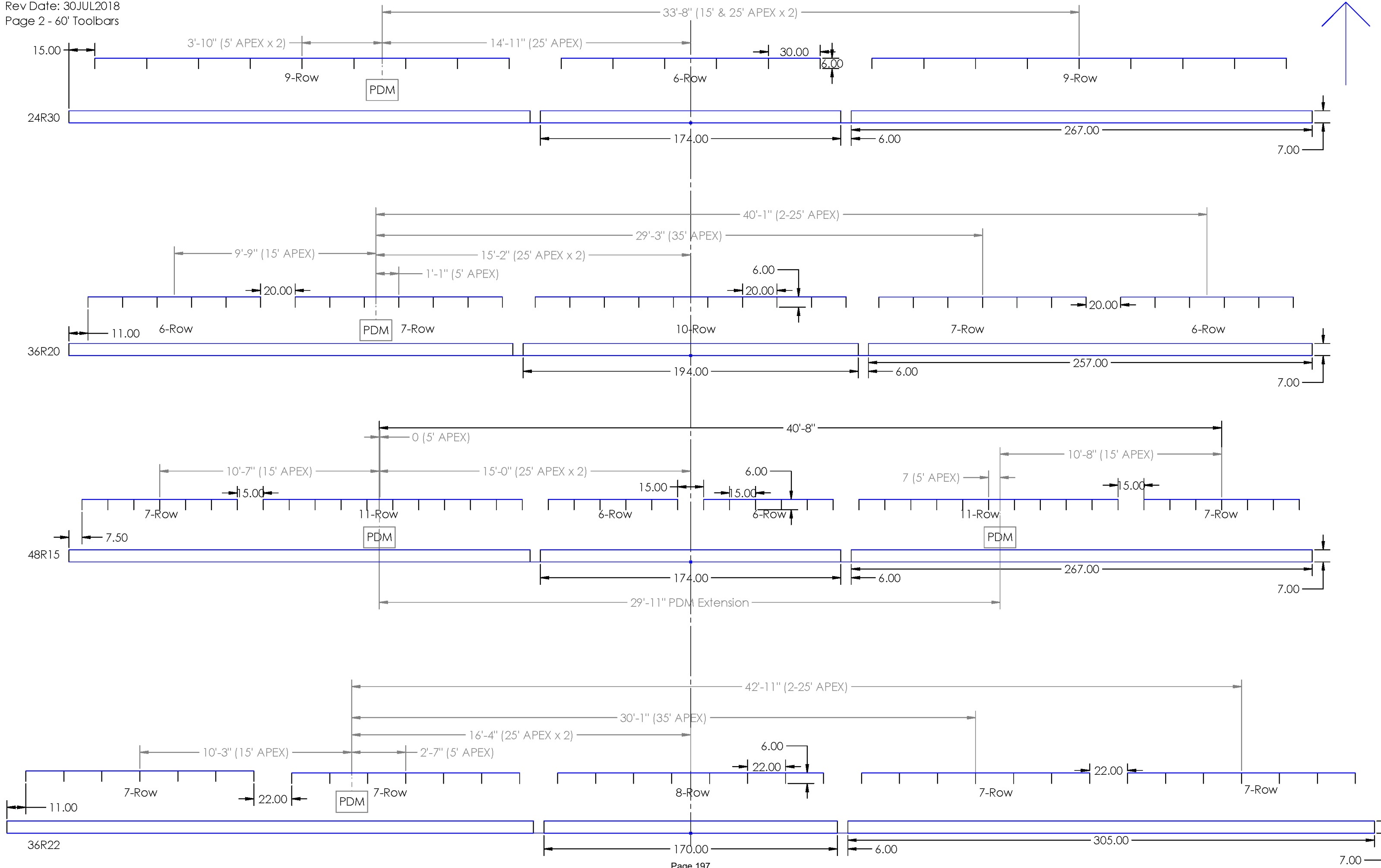
ITEM	PART NUMBER	DESCRIPTION	QTY.
1	HClamp-SAE-12-SS	36R22 Fertilizer & Seed Tube Routing	6
2	T0052573	Seed Hose Hanger, Middle Fr	4
3	T0052571	Seed Hose Hanger, Stub Arm	2
4	T0052572	Seed Hose Hanger, Middle	4
5	T0052450	Guide, Hose Seed Tube Cen Fr	2
6	T0052569	J-Hanger, Double	4
7	T0052570	J Hanger, Double Straight	2
8	T0051675	Hose, AgSpray 200 Ø3/4x180	1
9	T0051675	Hose, AgSpray 200 Ø3/4x240	1
10	T0051675	Hose, AgSpray 200 Ø3/4x230	1

Note:

1. Items 8, 9, & 10 use part number T0051675 Hose-0.75" Spray (100' Roll), or CNH P/N 86993466

36R20							
Row	1" Hose	1.25" Hose	Total	Row	1" Hose	1.25" Hose	Total
1	37' 11"	0' 0"	37' 11"	19	14' 2"	0' 0"	14' 2"
2	36' 8"	0' 0"	36' 8"	20	4' 6"	0' 0"	4' 6"
3	35' 3"	0' 0"	35' 3"	21	17' 0"	0' 0"	17' 0"
4	33' 10"	0' 0"	33' 10"	22	4' 6"	0' 0"	4' 6"
5	32' 4"	0' 0"	32' 4"	23	19' 6"	0' 0"	19' 6"
6	12' 0"	19' 3"	31' 3"	24	17' 9"	0' 0"	17' 9"
7	4' 6"	0' 0"	4' 6"	25	4' 6"	0' 0"	4' 6"
8	12' 0"	13' 10"	25' 10"	26	12' 0"	9' 7"	21' 7"
9	4' 6"	0' 0"	4' 6"	27	4' 6"	0' 0"	4' 6"
10	12' 0"	11' 5"	23' 5"	28	12' 0"	11' 11"	23' 11"
11	4' 6"	0' 0"	4' 6"	29	4' 6"	0' 0"	4' 6"
12	19' 10"	0' 0"	19' 10"	30	12' 0"	17' 6"	29' 6"
13	4' 6"	0' 0"	4' 6"	31	4' 6"	0' 0"	4' 6"
14	19' 0"	0' 0"	19' 0"	32	32' 4"	0' 0"	32' 4"
15	17' 4"	0' 0"	17' 4"	33	34' 9"	0' 0"	34' 9"
16	4' 6"	0' 0"	4' 6"	34	36' 1"	0' 0"	36' 1"
17	4' 6"	0' 0"	4' 6"	35	36' 5"	0' 0"	36' 5"
18	14' 1"	0' 0"	14' 1"	36	37' 2"	0' 0"	37' 2"





Torque – Hydraulic tubes and fittings

Standard torque data for hydraulic tubes and fittings

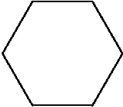
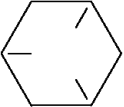
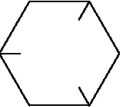
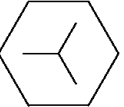
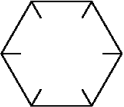
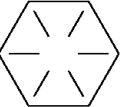
Tube Nuts for 37° Flared Fittings								O-Ring Boss Plugs, Adjustable Fitting Lock Nuts, Swivel JIC - 37 ° Seats			
Size	Tubing OD		Thread Size	ft-lbs		Nm		ft-lbs		Nm	
	Inches	mm		Min	Max	Min	Max	Min	Max	Min	Max
4	1/4	6.4	7/16-20	9	12	12	16	6	10	8	14
5	5/16	7.9	1/2-20	12	15	16	20	10	15	14	20
6	3/8	9.5	9/16-18	21	24	29	33	15	20	20	27
8	1/2	12.7	3/4-18	35	40	47	54	25	30	34	41
10	5/8	15.9	7/8-14	53	58	72	79	35	40	47	54
12	3/4	19.1	1-1/6-12	77	82	104	111	60	70	81	95
14	7/8	22.2	1-3/16-12	90	100	122	136	70	80	95	109
16	1	25.4	1-5/16-12	110	120	149	163	80	90	108	122
20	1-1/4	31.8	1-5/8-12	140	150	190	204	95	115	129	156
24	1-1/2	38.1	1-7/8-12	160	175	217	237	120	140	163	190
32	2	50.8	2-1/2-12	225	240	305	325	250	300	339	407

The above torque figures are recommended for plain, cadmium or zinc plated fittings, dry or wet installations and swivel nuts either swagged or brazed. These torques are not recommended for tubes 12.7 mm (0.5 in) OD and thicker with wall thickness of 0.889 mm (0.035 in) or less. The torque is specified for 0.889 mm (0.035 in) wall tubes on each application individually.

Torque – Fasteners

Society of Automotive Engineers (SAE) Fastener Torque

Use these torques, unless special torques are specified. Values are for Unified Coarse (UNC) and Unified Fine (UNF) thread fasteners, plated or unplated, as received from supplier. Fasteners can be dry or lubricated with normal engine oil. Values do not apply if graphite, molydisulphide or other extreme pressure lubricant is used.

SAE Grade No.	Grade 2				Grade 5				Grade 8 (See Note below.)			
Bolt Head Identification (See Note below.)					  				  			
Bolt Size	ft-lbs		Nm		ft-lbs		Nm		ft-lbs		Nm	
	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.
1/4	5	6	7	8	9	11	12	15	12	15	16	20
5/16	10	12	14	16	17	20.5	23	28	24	29	33	39
3/8	20	23	27	31	35	42	48	57	45	54	61	73
7/16	30	35	41	47	54	64	73	87	70	84	95	114
1/2	45	52	61	70	80	96	109	130	110	132	149	179
9/16	65	75	88	102	110	132	149	179	160	192	217	260
5/8	95	105	129	142	150	180	203	244	220	264	298	358
3/4	150	185	203	251	270	324	366	439	380	456	515	618
7/8	160	200	217	271	400	480	542	651	600	720	814	976
1	250	300	339	406	580	696	787	944	900	1080	1220	1464
1-1/8					800	880	1085	1193	1280	1440	1736	1953
1-1/4					1120	1240	1519	1681	1820	2000	2468	2712
1-3/8					1460	1680	1980	2278	2380	2720	3227	3688
1-1/2					1940	2200	2631	2983	3160	3560	4285	4827

Notes: Bolt head identification marks as per grade. Manufacturing marks will vary.
Thick nuts must be used with Grade 8 bolts.

Metric International Standards Organization (ISO) Fastener Torque

Use these torques, unless special torques are specified. Values are for coarse thread fasteners, plated or unplated, as received from supplier. Fasteners can be dry or lubricated with normal engine oil. Values do not apply if graphite, molydisulphide or other extreme pressure lubricant is used.

ISO Class No.	8.8				10.9				12.9			
Bolt Head Identification (See Note below.)												
Bolt Size	ft-lbs		Nm		ft-lbs		Nm		ft-lbs		Nm	
	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.
M4	2	3	3	4	3	4	4	5	Because of the low ductility of these fasteners, the torque range is to be determined individually for each application. As a general rule, the torque ranges specified for Grade 10.9 fasteners can be used satisfactorily on 12.9 fasteners.			
M5	5	6	7	8	7	8.0	10	11				
M6	8	9	11	12	11	13	15	18				
M8	19	23	26	31	27	32	37	43				
M10	38	45	52	61	54	64	73	87				
M12	66	79	90	107	93	112	125	150				
M14	106	127	144	172	149	179	200	245				
M16	160	200	217	271	230	280	310	380				
M20	320	380	434	515	450	540	610	730				
M24	500	600	675	815	780	940	1050	1275				
M30	920	1100	1250	1500	1470	1770	2000	2400				
M36	1600	1950	2175	2600	2580	3090	3500	4200				

Notes: Bolt head identification marks as per grade. Manufacturing marks will vary.

CONVERSION CHART											
Inch Fractions and Decimals to Millimeter Equivalents											
Inches		MM	Inches		MM	Inches		MM	Inches		MM
Fraction	Decimal		Fraction	Decimal		Fraction	Decimal		Fraction	Decimal	
-	0.0004	0.01	-	0.3	7.62	-	0.7874	20	-	1.969	50
-	0.001	0.025	5/16	0.3125	7.938	51/64	0.7969	20.241	2	2	50.8
-	0.0039	0.1	-	0.315	8	13/16	0.8125	20.638	2-1/8	2.125	54
-	0.005	0.127	21/64	0.3281	8.334	-	0.8268	21	-	2.165	55
-	0.0079	0.2	-	0.3346	8.5	53/64	0.8281	21.034	2-1/4	2.25	57.2
-	0.0098	0.25	11/32	0.3438	8.731	27/32	0.8438	21.431	-	2.362	60
-	0.01	0.254	-	0.3543	9	55/64	0.8594	21.828	2-3/8	2.375	60.3
-	0.0118	0.3	23/64	0.3594	9.128	-	0.8662	22	2-1/2	2.5	635
1/64	0.0156	0.397	-	0.374	9.5	7/8	0.875	22.225	-	2.559	65
-	0.0157	0.4	3/8	0.375	9.525	57/64	0.8906	22.622	2-5/8	2.625	66.7
-	0.0197	0.5	25/64	0.3906	9.922	-	0.9	22.86	2-3/4	2.75	69.9
-	0.0236	0.6	-	0.3937	10	-	0.9055	23	-	2.756	70
-	0.025	0.635	-	4	10.16	29/32	0.9063	23.019	2-7/8	2.875	73
-	0.0276	0.7	13/32	0.4062	10.319	59/64	0.9219	23.416	-	2.953	75
-	0.0295	0.75	-	0.4134	10.5	15/16	0.9375	23.813	3	3	76.2
1/32	0.0313	0.794	27/64	0.4219	10.716	-	0.9449	24	-	3.15	80
-	0.0315	0.8	-	0.4331	11	61/64	0.9531	24.209	3-1/4	3.25	82.6
-	0.0354	0.9	7/16	0.4375	11.113	31/32	0.9688	24.606	-	3.346	85
-	0.0394	1	29/64	0.4531	11.509	-	0.9843	25	3-1/2	3.5	88.9
3/64	0.0469	1.191	15/32	0.4688	11.906	1	1	25.4	-	3.543	90
-	0.0472	1.2	-	0.4724	12	-	1.024	26	-	3.74	95
-	0.05	1.27	31/64	0.4844	12.303	1-1/16	1.062	26.988	3-3/4	3.75	95.3
-	0.0551	1.4	-	0.4921	12.5	-	1.063	27	-	3.937	100
-	0.0591	1.5	1/2	0.5	12.7	-	1.102	28	4	4	101.6
1/16	0.0625	1.588	-	0.5118	13	1-1/8	1.125	28.575	-	4.331	110
-	0.0669	1.7	33/64	0.5156	13.097	-	1.142	29	4-1/2	4.5	114.3
-	0.075	1.905	17/32	0.5326	13.494	-	1.181	30	-	4.724	120
5/64	0.0781	1.984	-	0.5315	13.5	1-3/16	1.188	30.16	5	5	127
-	0.0787	2	35/64	0.5469	13.891	-	1.221	31	-	5.118	130
-	0.0906	2.3	-	0.5512	14	1-1/4	1.25	31.75	5-1/2	5.5	139.7
3/32	0.0938	2.381	9/16	0.5625	14.288	-	1.26	32	-	5.512	140
-	0.0984	2.5	-	0.571	14.5	-	1.299	33	-	5.906	150
-	0.1	2.54	37/64	0.5781	14.684	1-5/16	1.312	33.34	6	6	152.4
-	0.1024	2.6	-	0.5906	15	-	1.339	34	-	6.299	160
7/64	0.1093	2.776	19/32	0.5938	15.081	1-3/8	1.375	34.93	6-1/2	6.5	165.1
-	0.1181	3	-	0.6	15.24	-	1.378	35	7	7	177.8
1/8	0.125	3.175	39/64	0.6094	15.478	-	1.417	36	-	7.087	180
-	0.1378	3.5	-	0.6103	15.5	1-7/16	1.438	36.51	7-1/2	7.5	190.5
9/64	0.1406	3.572	5/8	0.625	15.875	-	1.457	37	-	7.874	200
5/32	0.1563	3.969	-	0.6299	16	-	1.496	38	8	8	203.2
-	0.1575	4	41/64	0.6406	16.272	1-1/2	1.5	38.1	8-1/2	8.5	215.9
11/64	0.1719	4.366	-	0.6496	16.5	-	1.535	39	-	8.661	220
-	0.1772	4.5	21/32	0.6563	16.669	1-9/16	1.562	39.69	9	9	228.6
3/16	0.1875	4.763	-	0.6693	17	-	1.575	40	-	9.449	240
-	0.1969	5	43/64	0.6719	17.066	-	1.614	41	9-1/2	9.5	241.3
-	0.2	5.08	11/16	0.6875	17.463	1-5/8	1.625	41.28	-	9.843	250
13/64	0.2031	5.159	-	0.689	17.5	-	1.654	42	10	10	254
-	0.2165	5.5	-	0.7	17.78	1-11/16	1.688	42.86	-	10.236	260
7/32	0.2188	5.556	45/64	0.7031	17.859	-	1.693	43	11	11	279.4
15/64	0.2344	5.963	-	0.7087	18	-	1.732	44	-	11.024	280
-	0.2362	6	23/32	0.7188	18.256	1-3/4	1.75	44.45	-	11.811	300
1/4	0.25	6.35	-	0.7283	18.5	-	1.772	45	12	12	304.8
-	0.2559	6.5	47/64	0.7344	18.653	-	1.811	46	13	13	330.2
17/64	0.2656	6.747	-	0.748	19	1-13/16	1.813	46.04	-	13.78	350
-	0.2756	7	3/4	0.75	19.05	-	1.85	47	14	14	355.6
9/32	0.2813	7.144	49/64	0.7656	19.447	1-7/8	1.875	47.63	15	15	381
-	0.2953	7.5	-	0.7677	19.5	-	1.89	48	-	15.748	400
19/64	0.2969	7.541	25/32	0.7813	19.844	-	1.929	49	16	16	406.4

