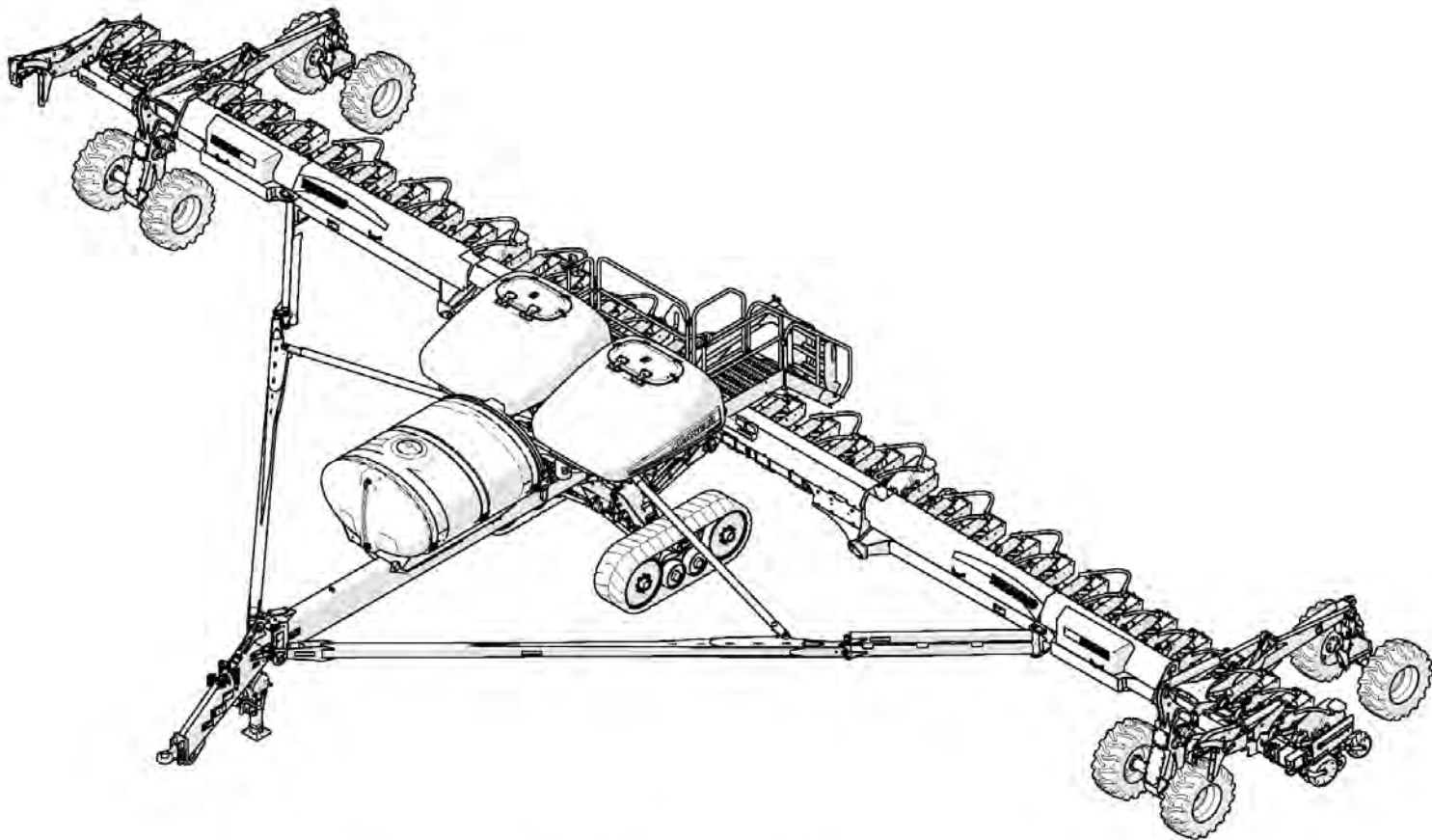


YIELDTRAC



Yieldtrac Planter Bar 24R-30

24 Row 30" Spacing (1200 Series)
Front Fold Trailing Planter

Year 2018 Model

Parts Catalog

Part number T0056298
1st edition English
August 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 24R-30.

Revision History

Issue	Date	Reasons for Change
T0056298	August 22nd, 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:

24R-30

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 Parts Catalog

ITEM	PART NUMBER	DESCRIPTION	QTY	TORQUE (ft.-lbs.)
1	T0051555	Mount Fertilizer Manifold	1	
2	T0051558	Tee 3/4" Threaded	3	
3	T0051557	Nipple 3/4" Short	2	
4	T0051441	3/4" MPT x 3/4" HB Elbow	3	
5	T0051543	Hose Barb 3/4" MPT x 3/4" HB	1	
6	T0051512	3/4" MPT x 3/4" HB	1	
7	UB-0.25X1.5X2.8-RSS	U-Bolt-0.250X1.50X2.75-RB-SS	2	
8	NLHUT-0.250-20SS	Nut, Nylock 1/4"-20-SS	4	

Note:
1. PTF=Apply Pipe Thread Sealant. Use Rectorseal #21 or Equivalent.
2. For Item # 4, & 5, use P/N T0051674 Hose-039 AG Spray 200 (100' Roll).
3. For Item # 6, use P/N T0051557 Hose-034 AG Spray 200 (100' Roll).

TA01027 Assy, Manifold Fert Cen Bar (Left Configuration)

ITEM	PART NUMBER	DESCRIPTION	QTY	TORQUE (ft.-lbs.)
1	T0051555	Mount Fertilizer Manifold	1	
2	T0051558	Tee 3/4" Threaded	3	
3	T0051557	Nipple 3/4" Short	2	
4	T0051441	3/4" MPT x 3/4" HB Elbow	3	
5	T0051543	Hose Barb 3/4" MPT x 3/4" HB	1	
6	T0051512	3/4" MPT x 3/4" HB	1	
7	UB-0.25X1.5X2.8-RSS	U-Bolt-0.250X1.50X2.75-RB-SS	2	
8	NLHUT-0.250-20SS	Nut, Nylock 1/4"-20-SS	4	

Note:
1. PTF=Apply Pipe Thread Sealant. Use Rectorseal #21 or Equivalent.
2. For Item # 4, & 5, use P/N T0051674 Hose-039 AG Spray 200 (100' Roll).
3. For Item # 6, use P/N T0051557 Hose-034 AG Spray 200 (100' Roll).

TA01027 Assy, Manifold Fert Cen Bar (Right Configuration)

ITEM	PART NUMBER	DESCRIPTION	QTY	TORQUE (ft.-lbs.)
1	T0051555	Mount Fertilizer Manifold	1	
2	T0051558	Tee 3/4" Threaded	3	
3	T0051557	Nipple 3/4" Short	2	
4	T0051441	3/4" MPT x 3/4" HB Elbow	3	
5	T0051543	Hose Barb 3/4" MPT x 3/4" HB	1	
6	T0051512	3/4" MPT x 3/4" HB	1	
7	UB-0.25X1.5X2.8-RSS	U-Bolt-0.250X1.50X2.75-RB-SS	2	
8	NLHUT-0.250-20SS	Nut, Nylock 1/4"-20-SS	4	

Note:
1. PTF=Apply Pipe Thread Sealant. Use Rectorseal #21 or Equivalent.
2. For Item # 4, & 5, use P/N T0051674 Hose-039 AG Spray 200 (100' Roll).
3. For Item # 6, use P/N T0051557 Hose-034 AG Spray 200 (100' Roll).

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 24R-30 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.

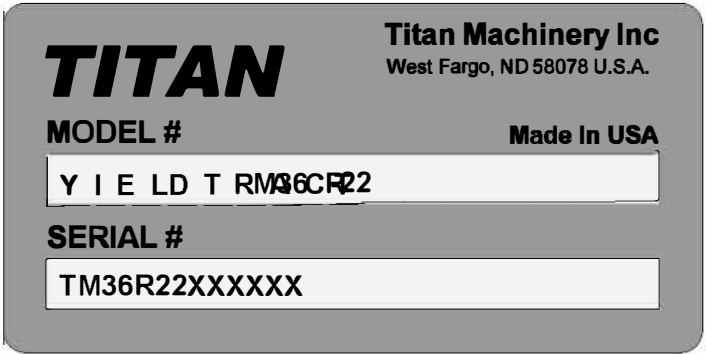


Fig. # 1-1 Model Number / Serial Number Decal

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

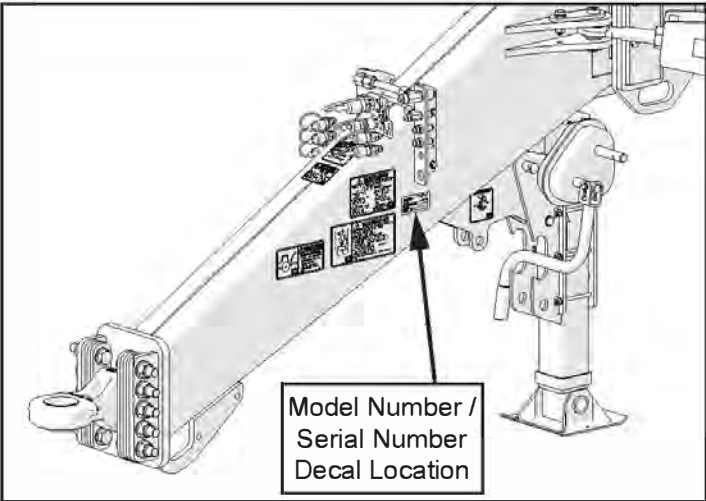


Fig. # 1-2 Model / Serial Number Decal Location

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.

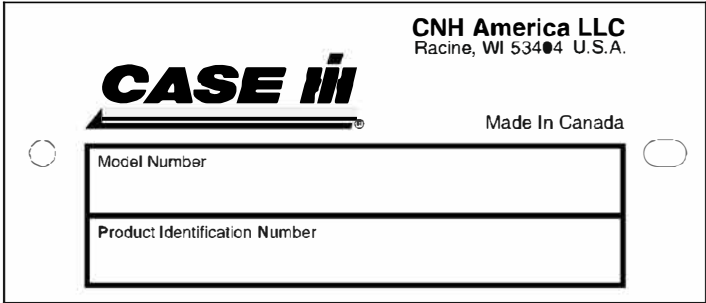


Fig. # 1-3
Model Number/Serial Number Decal

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

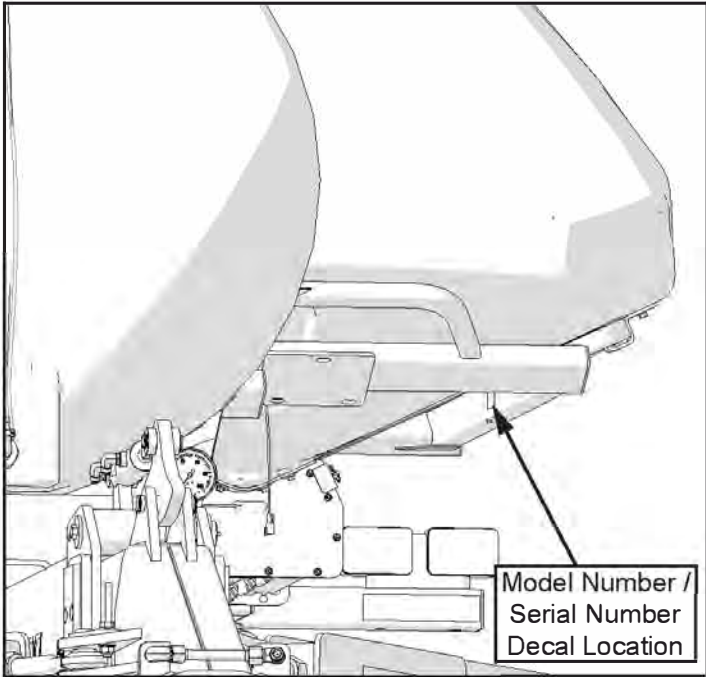
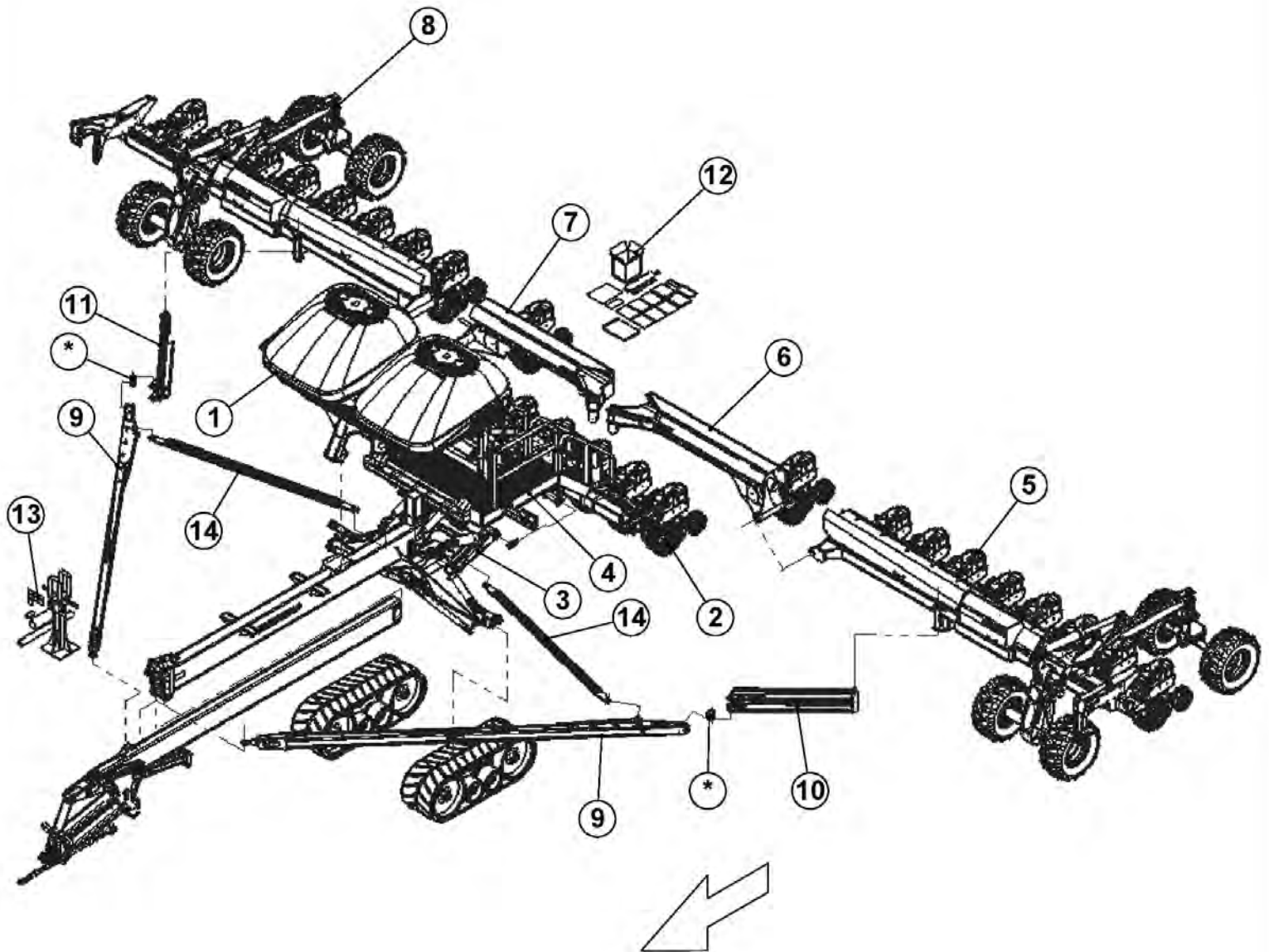


Fig. # 1-4 Model / Serial Number Decal Location On Bulk Fill Assembly

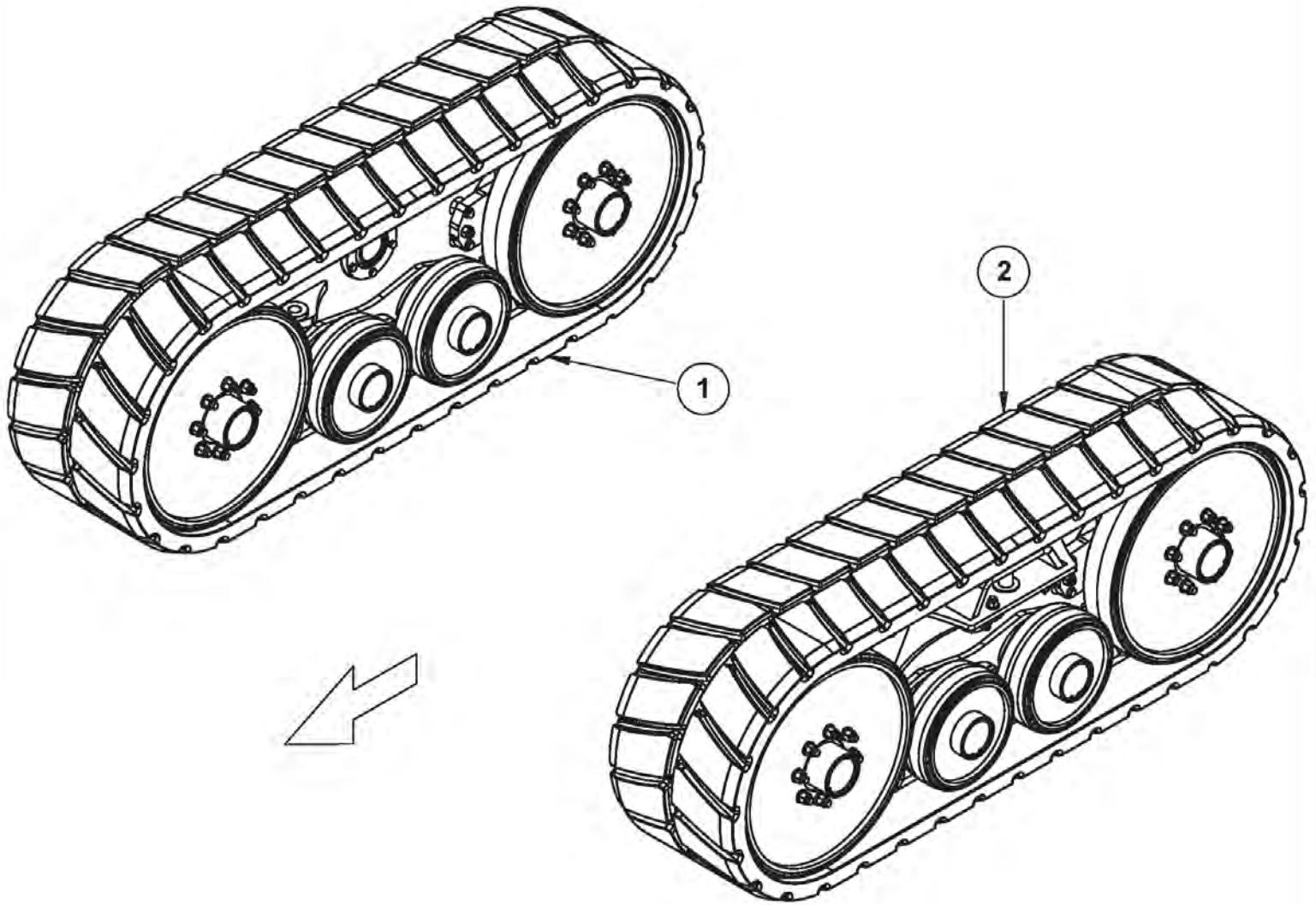


TA01266 24R30 Yieldtrac

ITEM	PART NUMBER	DESCRIPTION	QTY.	TORQUE (ft-lbs)
1	TA00989	Bulk Fill Assy	1	
2	TA01149	24R30 Center Bar Assy	1	
3	TA01206	Assy, Complete Lift	1	
4	TA01246	Assy, Ladder Platform	1	
5	TA01264	Assy, 24R30 LH Wing	1	
6	TA01267	Assy, 24R30 LH Stub Arm	1	
7	TA01268	Assy, 24R30 RH Stub Arm	1	
8	TA01269	Assy, 24R30 RH Wing	1	
9	TA01354	Assy, Tow Bar	2	
10	TA01360	Assy, Tow Bar Gate - LH	1	
11	TA01361	Assy, Tow Bar Gate - RH	1	
12	TA01577	Operator's Package 2017 24R30	1	
13	TA01584	Assy, Bulk Material 24R30	1	
14	TW001214	Wldmt, Control Link	2	

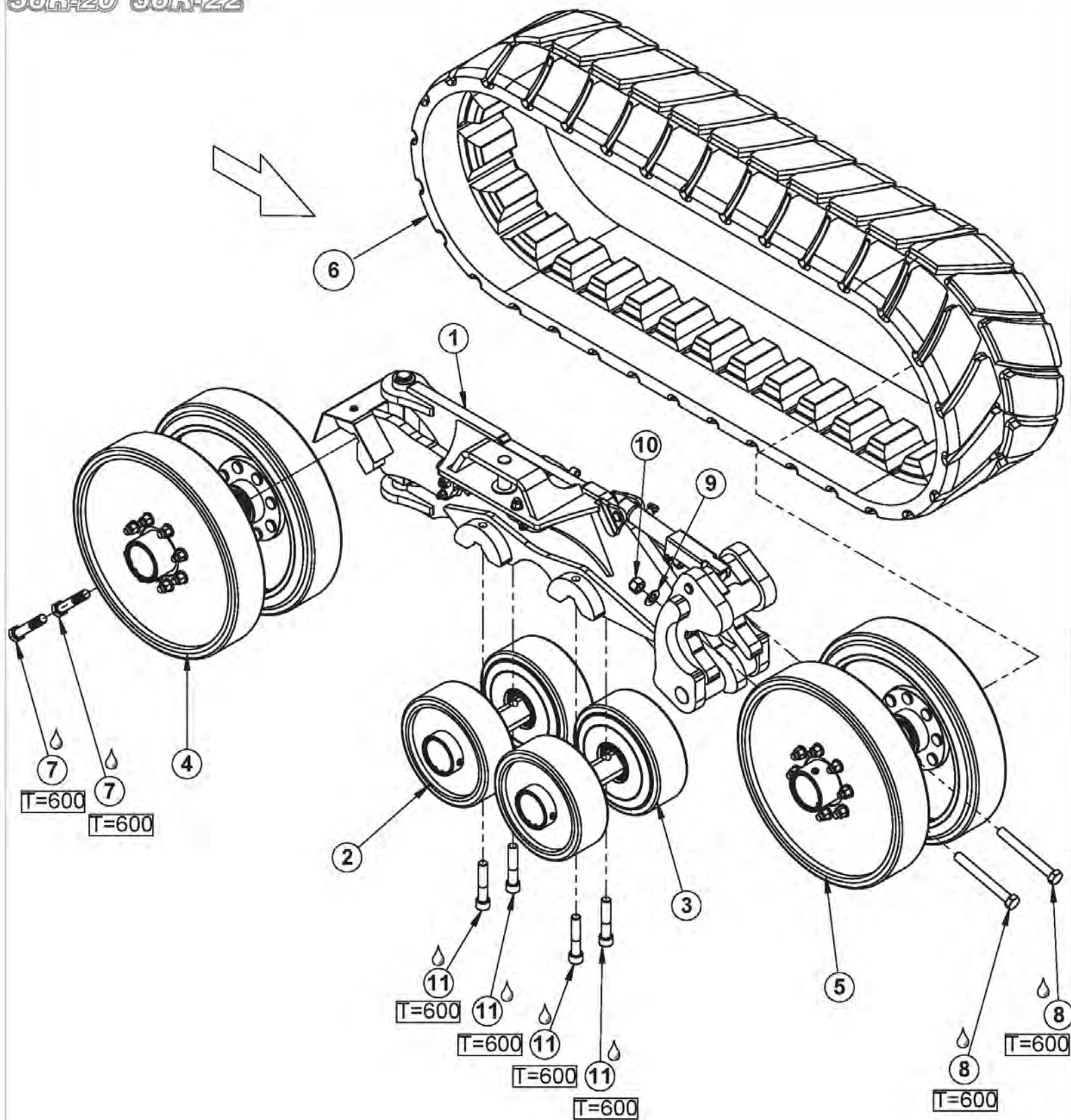
Note:

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.



TA01241 Assy, 18" Track

ITEM	PART NUMBER	DESCRIPTION	QTY	TORQUE (ft-lbs)
1	TA01230	Assy, 18" RH Track	1	
2	TA01231	Assy, 18" LH Track	1	

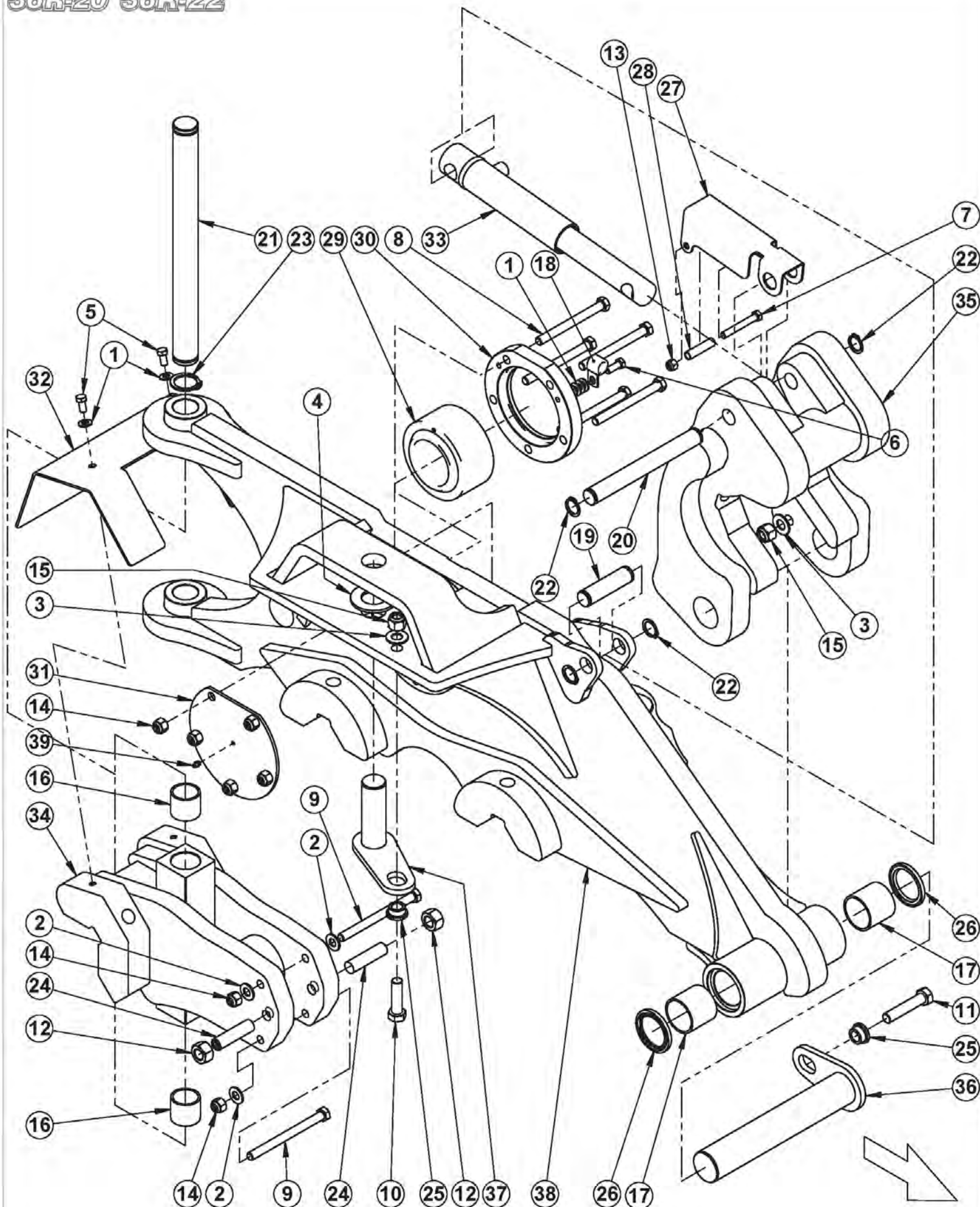


TA01230 Assy, 18" RH Track

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	

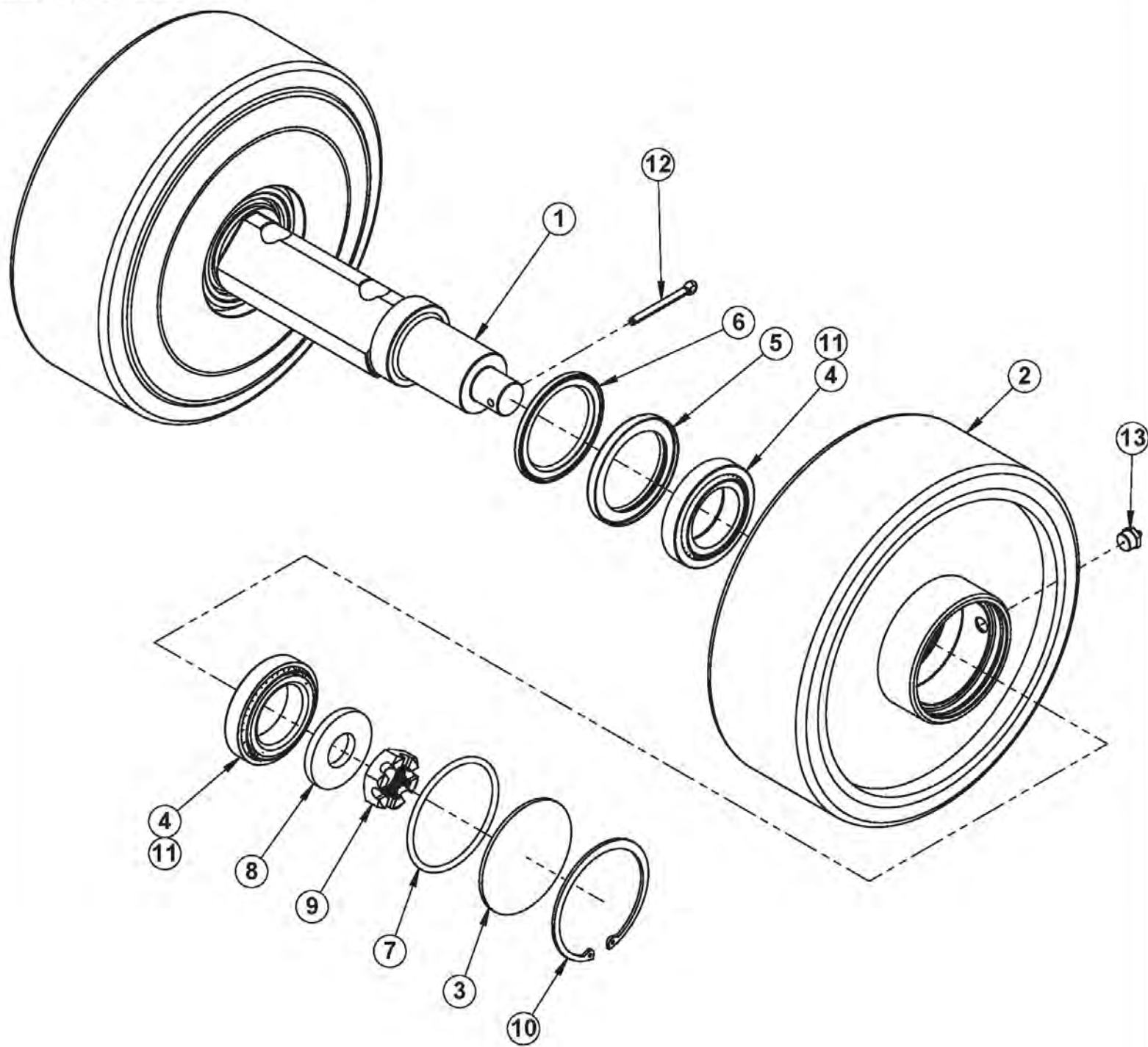
Note:

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



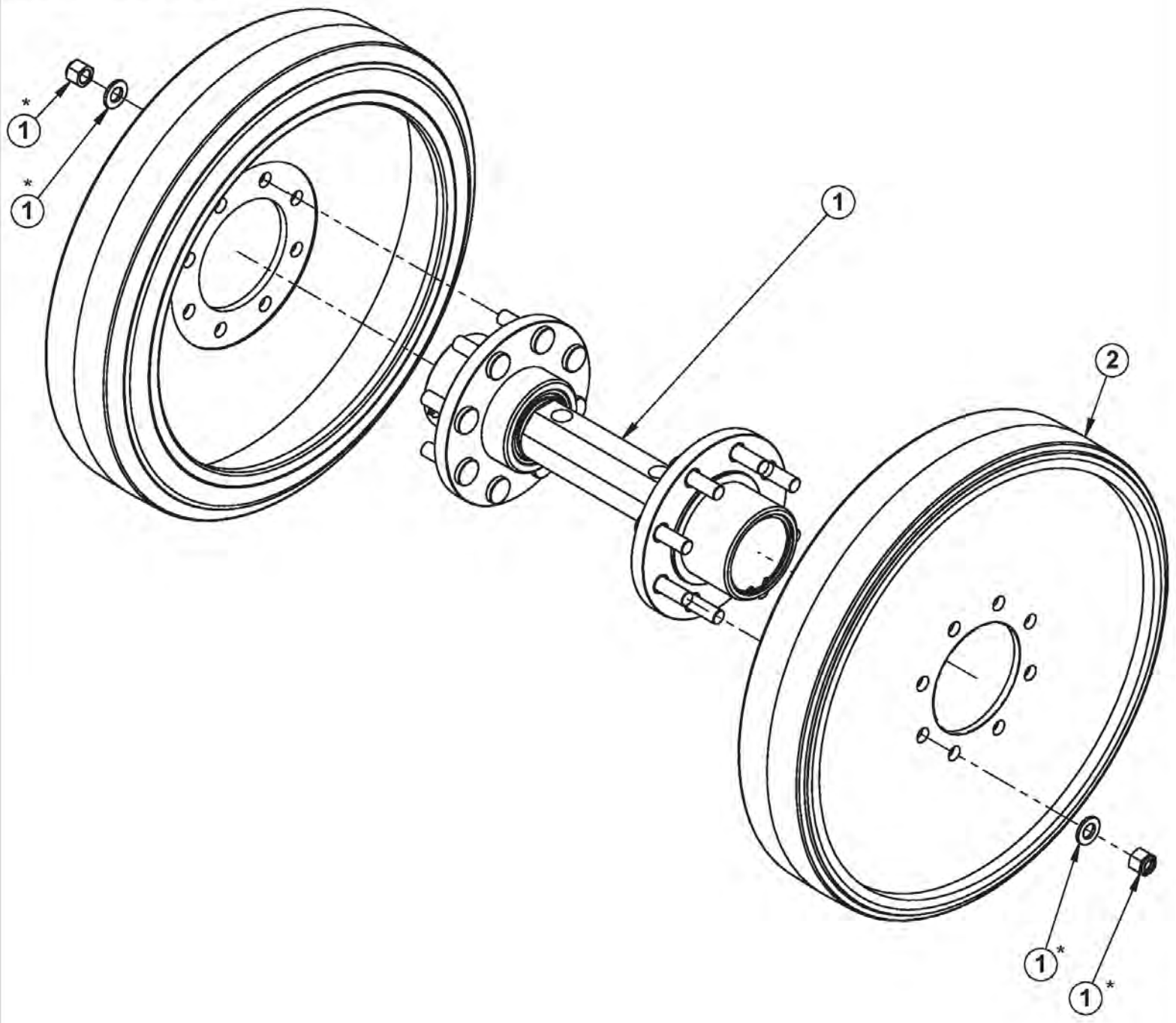
TA01049 Assy, RH Track Undercarriage

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	

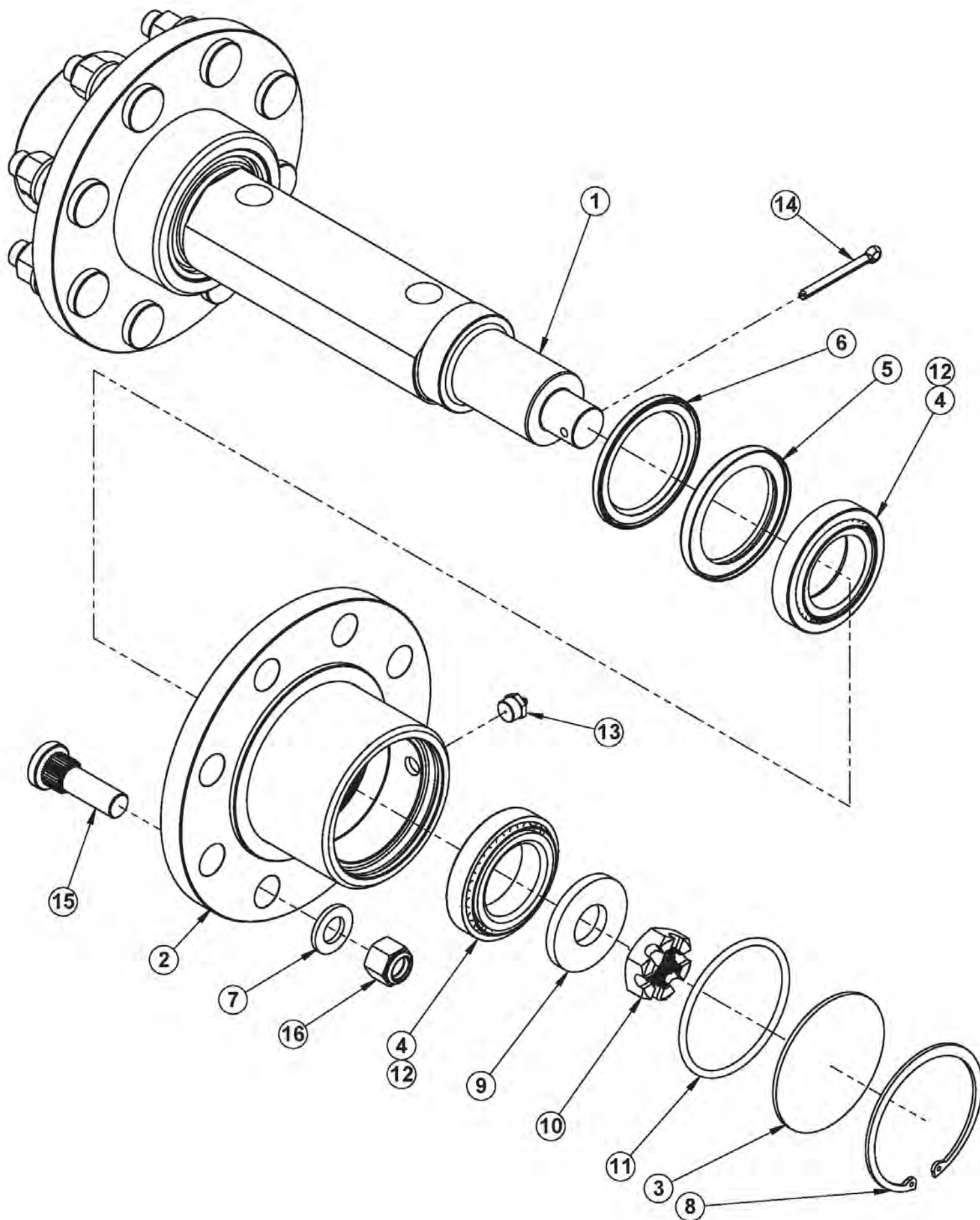


TA01221 Idler Narrow Asm

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.

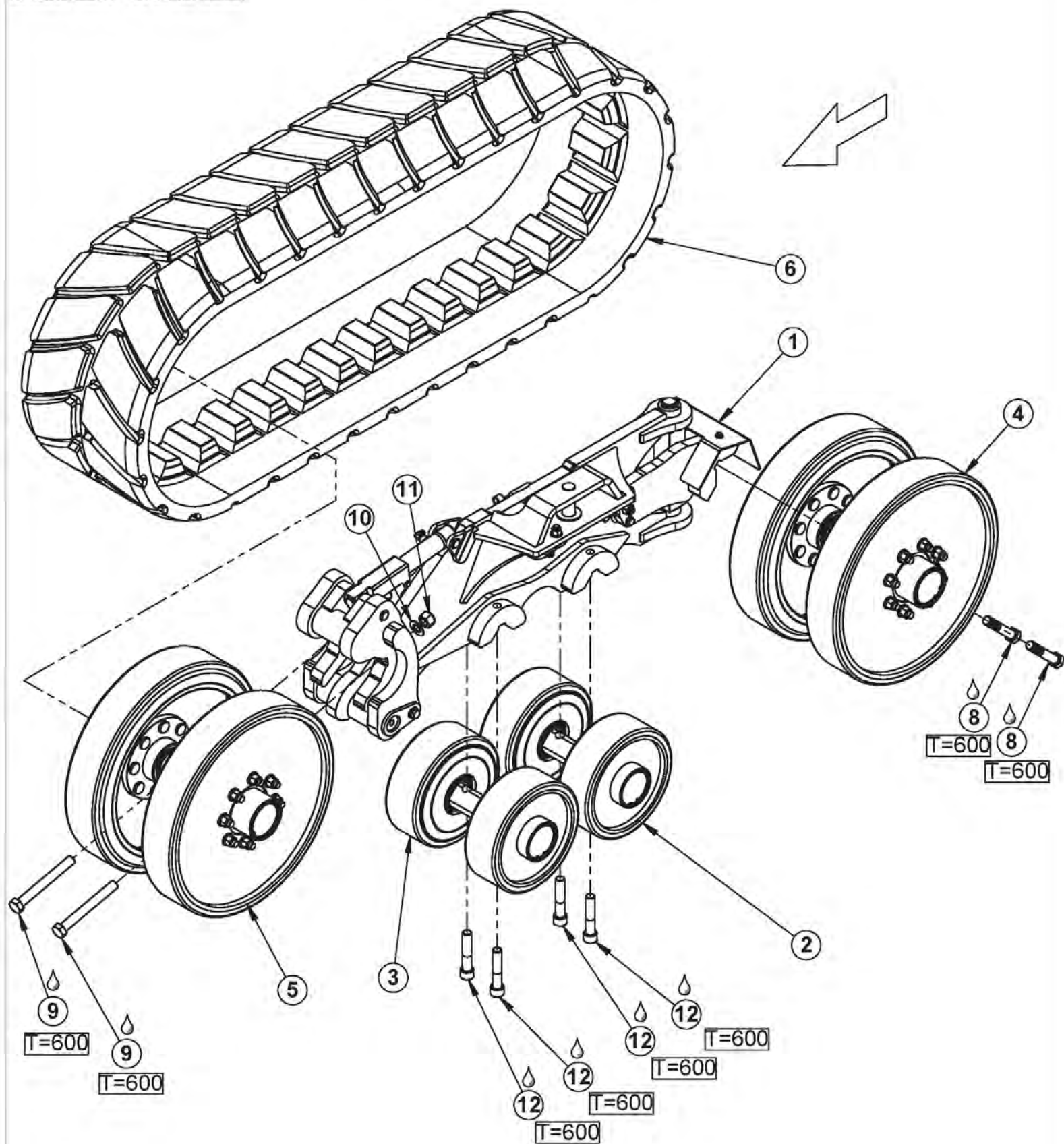


TA01219 Idler Axle Asm

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.

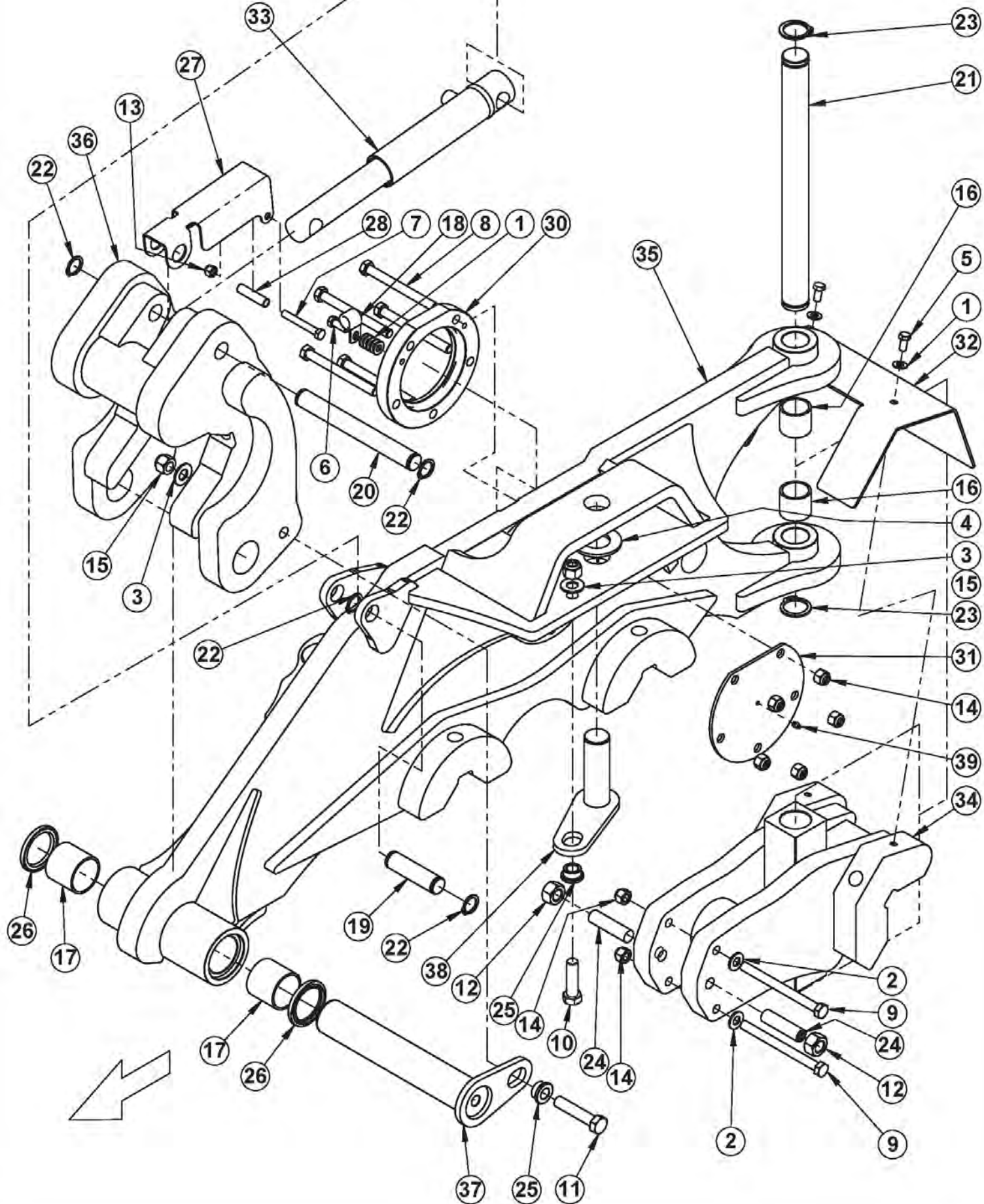


TA01231 Assy, 18" LH Track

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.

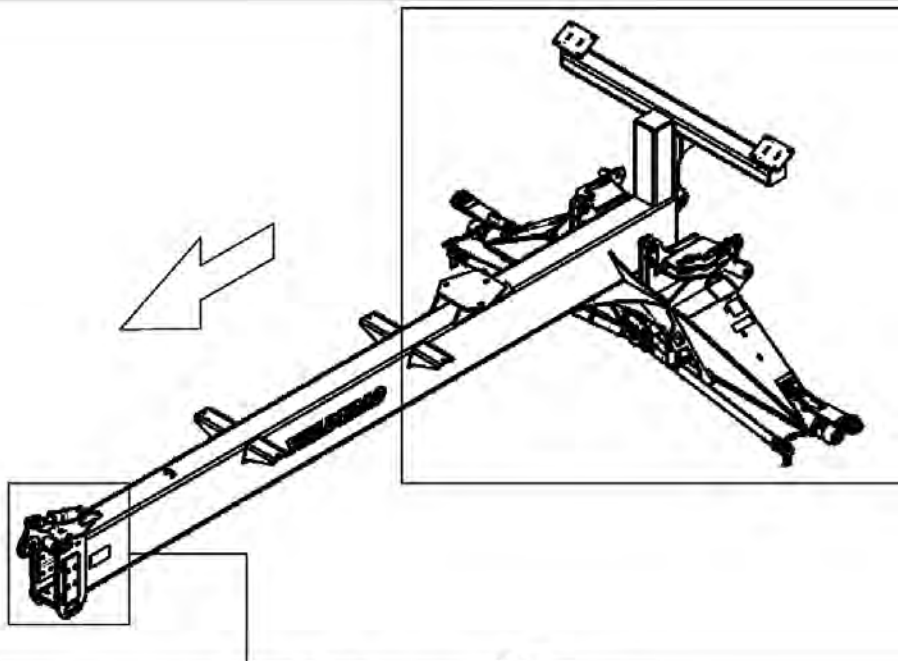


TA01024 Assy, LH Track Undercarriage

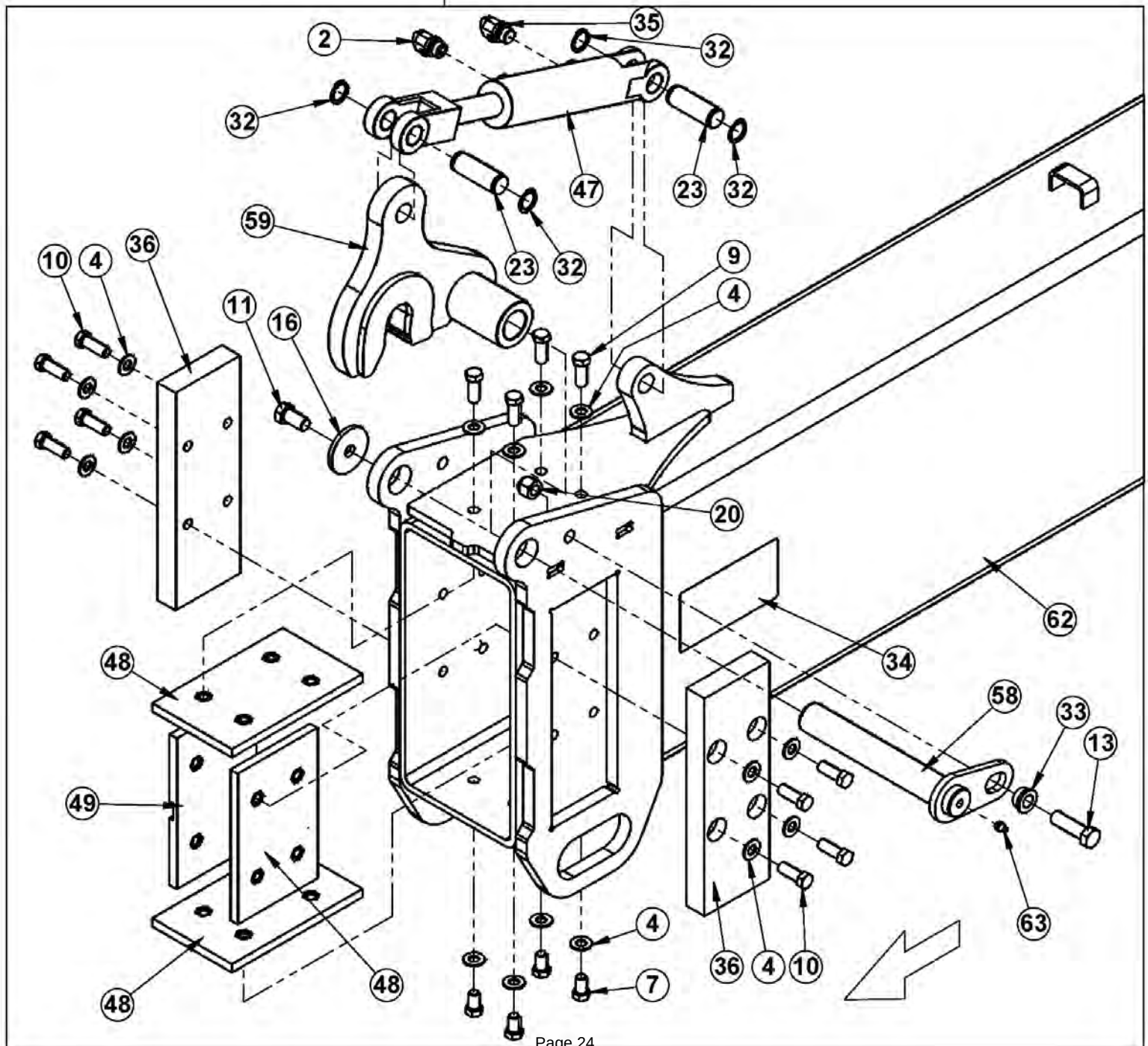
ITEM	PART NUMBER	DESCRIPTION	QTY.	TORQUE (ft-lbs)
1	FW-SAE-0.375Y	Washer, Flat SAE 3/8 YZ	7	
2	FW-SAE-0.500Y	Washer, Flat SAE 1/2 YZ	4	
3	FW-SAE-0.625Y	Washer, Flat SAE 5/8 YZ	2	
4	FW-SAE-1.375Y	Washer, Flat SAE 1-3/8 YZ	1	
5	HB-0.375-16X0.75Y8	HBolt-0.3750-16x0.750-YZ8	2	
6	HB-0.375-16X1.00Y8	Bolt, 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.

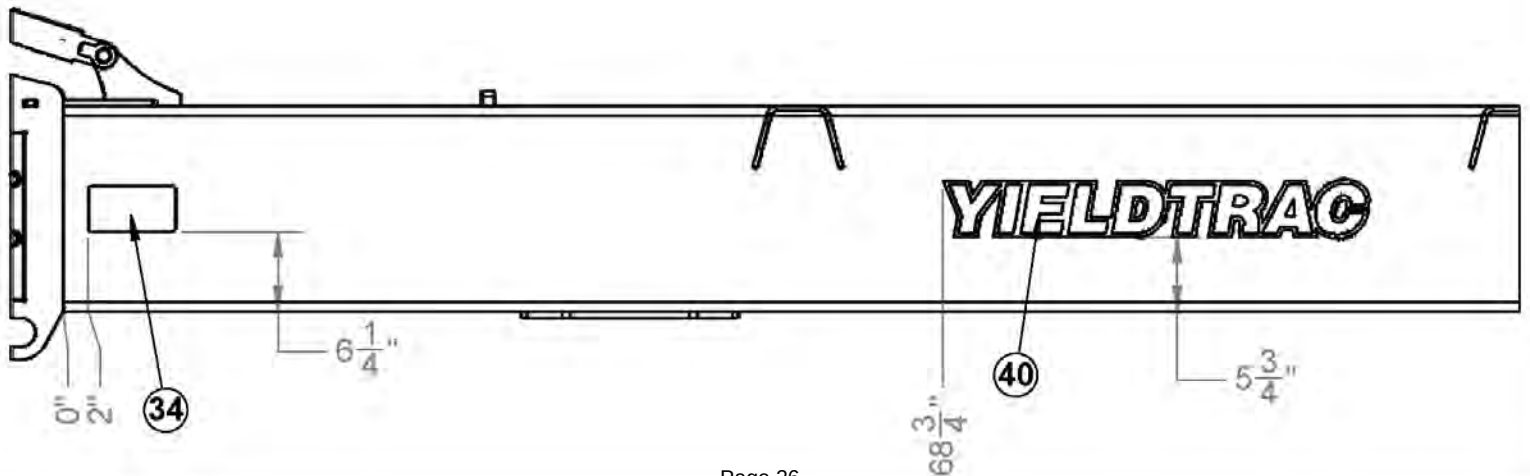
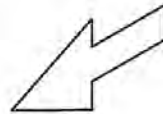
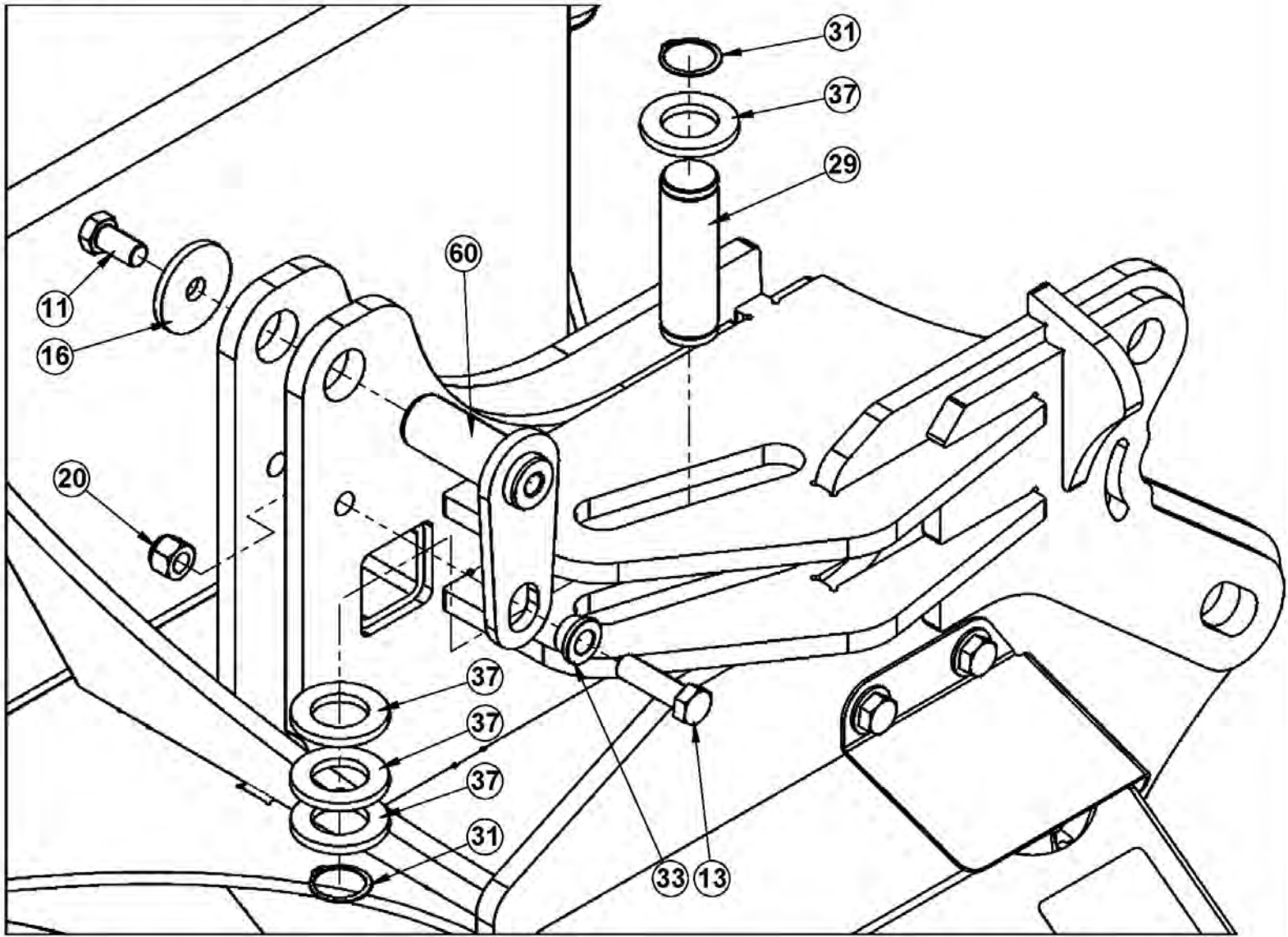


See Sheets
2, 3, 4, & 5



TA01350 Assy, 60' Main Frame 120"

ITEM	PART NUMBER	DESCRIPTION	QTY.	TORQUE (ft-lbs)
1	AD-06MJ-06MB	ADAPTER 06MJ-06MB	4	
2	AD-06MJ-08MB-90	ADAPTER 06MJ-08MB 90	1	
3	FW-SAE-0.375Y	Washer, Flat SAE 3/8" YZ	2	
4	FW-SAE-0.500Y	Washer, Flat SAE - 1/2-YZ	16	
5	FW-SAE-0.625Y	Washer, Flat-SAE-5/8	9	
6	HB-0.313-18X1.25Y8	Bolt, Hex Hd 5/16-18x1 -1/4 YZ8	2	
7	HB-0.500-13X0.88Y8	Bolt, Hex Hd 1/2-13x7/8 YZ8	4	
8	HB-0.500-13X1.25Y8	Bolt, Hex Hd 1/2-13x1-1/4 YZ8	8	
9	HB-0.500-13X1.38Y8	Bolt, Hex Hd 1/2-13x1-3/8 YZ8	4	
10	HB-0.500-13X1.50Y8	Bolt, Hex Hd 1/2-13x1-1/2 YZ8	8	
11	HB-0.625-11X1.25Y8	Bolt, Hex Head-5/8-11x1.25-YZ8	3	
12	HB-0.625-11X1.75Y8	Bolt, Hex Head-5/8-11x1.75-YZ8	4	
13	HB-0.625-11X2.25Y8	Bolt, Hex Head-5/8-11x2.25-YZ8	5	
14	HB-0.625-11X2.50Y8	Bolt, Hex Head-5/8-11x2.5-YZ8	1	
15	HB-1.000-8X7.00Y8	Bolt, Hex Hd-1-8x7-YZ8	2	
16	HDWSH-0.64X2.50Y	HD Washer 0.64 x 2.50	3	
17	HS04-073-06FJ-06FJ-C	Hose 0.25-073-06FJX-06FJX-STC	1	
18	HS04-073-06FJ-06FJ-C	Hose 0.25-073-06FJX-06FJX-STC	1	
19	NLNUT-0.313-18Y8	Nut, Nylock 5/16"-18-YZ8	2	
20	NLNUT-0.625-11Y8	Nut, Nylock-5/8-11-YZ8	10	
21	NLNUT-1.000-8Y8	Nut, Nylock-1.0-8-YZ8	2	
22	PCLMP-0.750x0.875	Clmp, Cus Pipe Ø3/4"x7/8"	2	
23	PIN-1.000X2.63Y	PIN-1.000X2.63Y	2	
24	PIN-1.000X3.38Y	PIN-1.000X3.38Y	1	
25	PIN-1.000X4.63Y	PIN-1.000X4.63Y	2	
26	PIN-1.000X5.75Y	Pin-1.0000x5.750-YZ	1	
27	PIN-1.000X6.125Y	Pin-1.0000x6.125-YZ	2	
28	PIN-1.438X3.50Y	PIN-1.438X3.50Y	2	
29	PIN-1.438X4.25Y	Pin-1.4375x4.250-YZ	2	
30	RN-0.375-16-.31-.44-Y	Rivnut, 3/8-16 UNC .31-.44 GR	4	
31	SRING-EXT-1.44	1-7/16" External Snap Ring	4	
32	SRING-EXT-HD-1.00Y	SRING-EXT-HD-1.00Y	10	
33	T0050854	Anti Rotation Insert	6	
34	T0051588	Decal, Warning - Crush Hazard	2	
35	T0052369	ADAPTER 06MJ-08MB 90 W/ORF	1	
36	T0052579	Slider Block	2	
37	T0052610	Washer, Control Link	8	
38	T0053788	Axle, Track Stub	2	
39	T0053791	Washer, Track Axle Retention	2	
40	T0054236	Decal, Yieldtrac 4.4x33.3	2	
41	T0054616	Stop Insert	4	
42	T0054707	Decal, Warn-Crush Haz Mn Lift	2	
43	T0054708	Decal, 320 Lug Torque	2	
44	T0054904	Cylinder Cover, LH	1	
45	T0054905	Cover, RH Cylinder	1	
46	T0055290	Pin, Shipping Lock	2	
47	TA00632	Cylinder, Hyd 2.00X4.00	1	
48	TA00801	Assy, Slider	3	
49	TA00843	Assy, Slider	1	
50	TA01117	Tilt Control Assembly	2	
51	TA01168	Assy, Tie Rod 120"	2	
52	TA01235	Cylinder, Tilt Stop	2	
53	TA01239	Assy, Track Tension Valve	1	
54	TA01311	Steering Pivot Assy	1	
55	TA01637	Assy, Turnbuckle	1	
56	TW000630	Pin Weldment	2	
57	TW001012	Pin Weldment	2	
58	TW001050	Pin Weldment	1	
59	TW001150	Wdmt, Hitch Latch	1	
60	TW001163	Wdmt, 120" Stop Block	2	
61	TW001170	Pin Weldment	1	
62	TW001210	Wdmt, 60' Main Frame (120")	1	
63	ZERK-0.125-27-NPT	Zerk,-1/8-27-NPT	1	

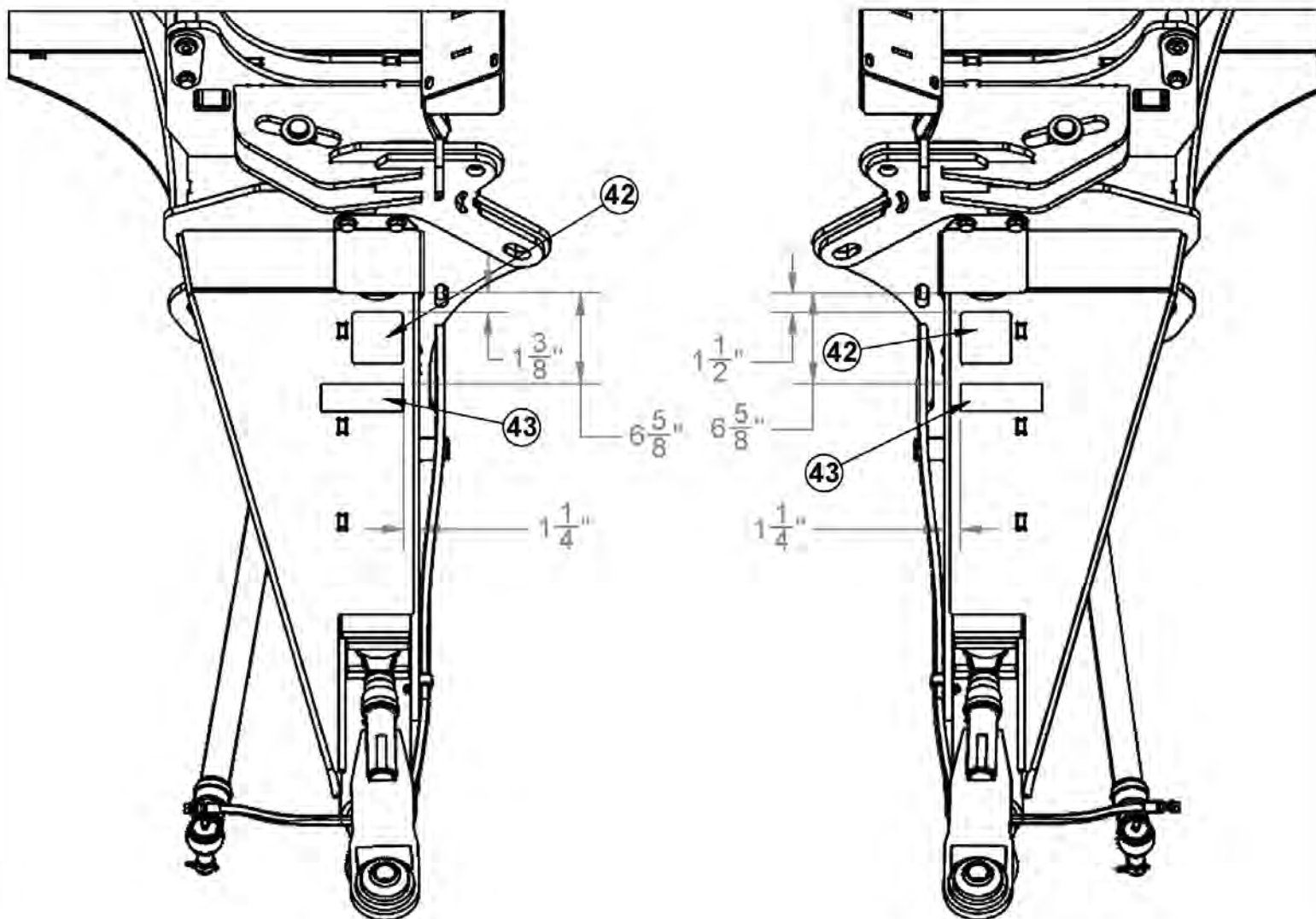


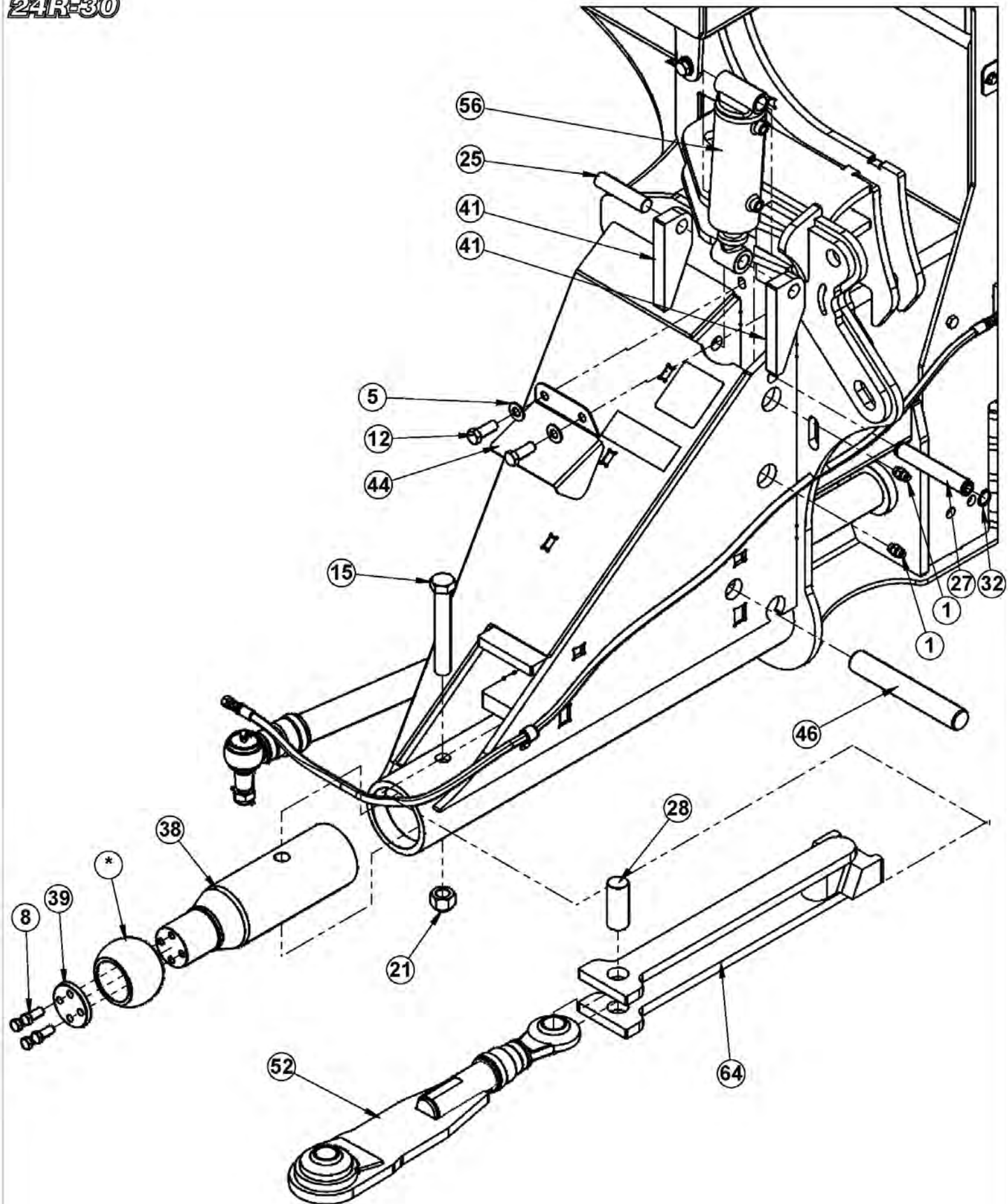
TA01350 Assy, 60' Main Frame 120"

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

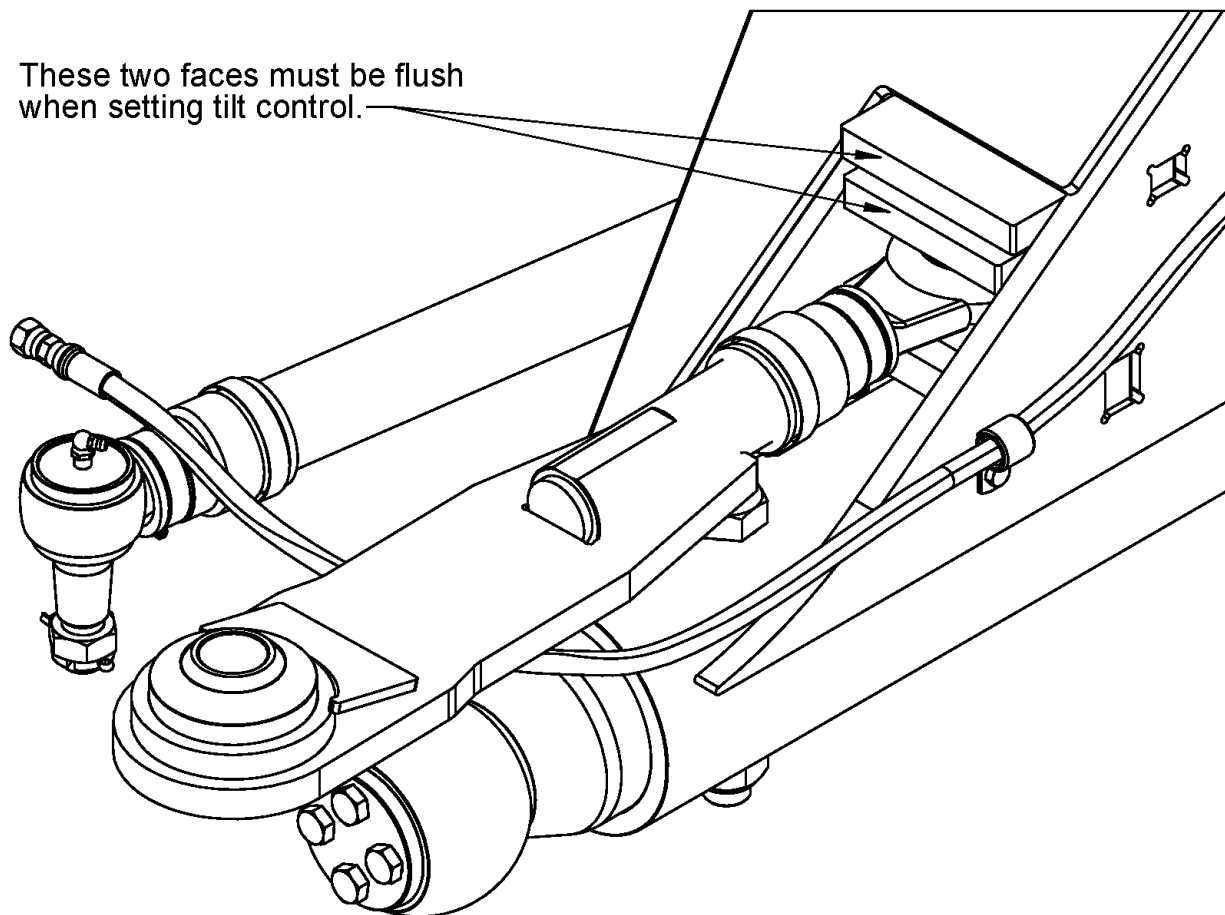


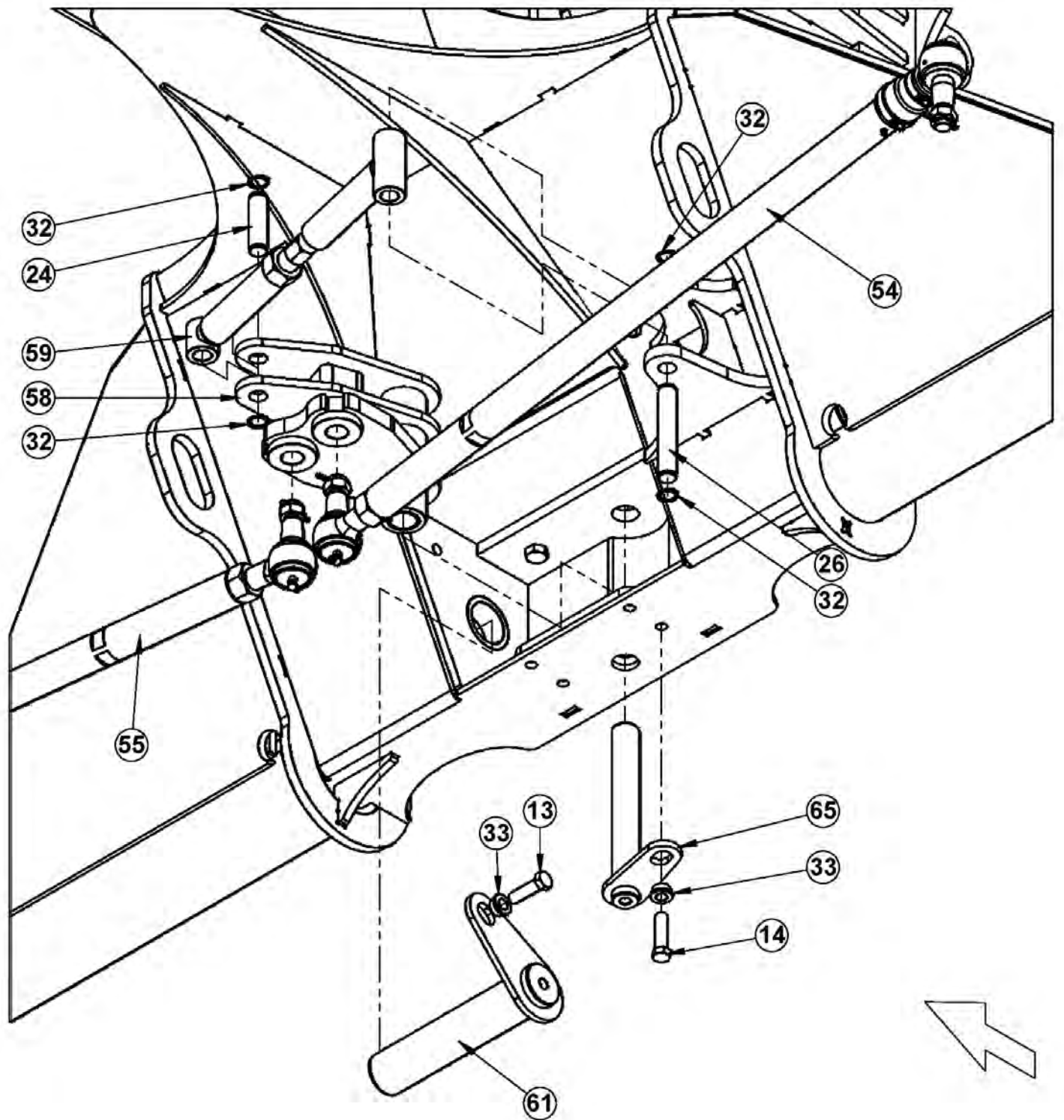


TA01350 Assy, 60' Main Frame 120"

ITEM	PART NUMBER	DESCRIPTION	QTY.	TORQUE (ft-lbs)
1	AD-06MJ-06MB	ADAPTER 06MJ-06MB	4	
5	FW-SAE-0.625Y	Washer, Flat-SAE-5/8	9	
8	HB-0.500-13X1.25Y8	Bolt, Hex Hd 1/2-13x1-1/4 YZ8	8	
15	HB-1.000-8X7.00Y8	Bolt, Hex Hd-1-8x7-YZ8	2	
21	NLNUT-1.000-8Y8	Nut, Nylock-1.0-8-YZ8	2	
25	PIN-1.000X4.63Y	PIN-1.000X4.63Y	2	
27	PIN-1.000X6.125Y	Pin-1.0000x6.125-YZ	2	
28	PIN-1.438X3.50Y	PIN-1.438X3.50Y	2	
32	SRING-EXT-HD-1.00Y	SRING-EXT-HD-1.00Y	10	
38	T0053788	Axle, Track Stub	2	
39	T0053791	Washer, Track Axle Retention	2	
41	T0054616	Stop Insert	4	
44	T0054904	Cylinder Cover, LH	1	
46	T0055290	Pin, Shipping Lock	2	
52	TA01117	Tilt Control Assembly	1	
56	TA01235	Cylinder, Tilt Stop	2	
64	TW001163	Wldmt, 120" Stop Block	2	

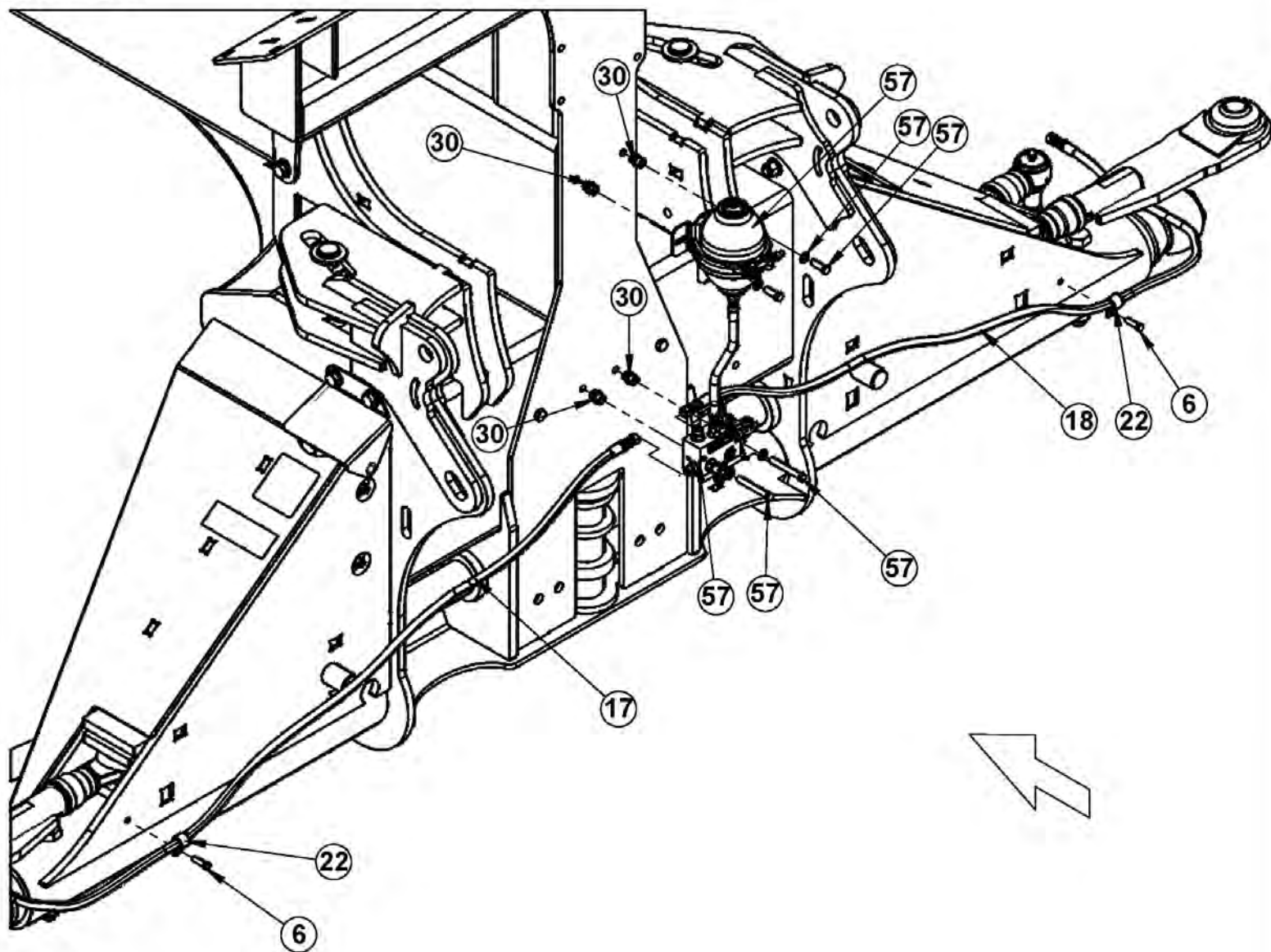
These two faces must be flush when setting tilt control.





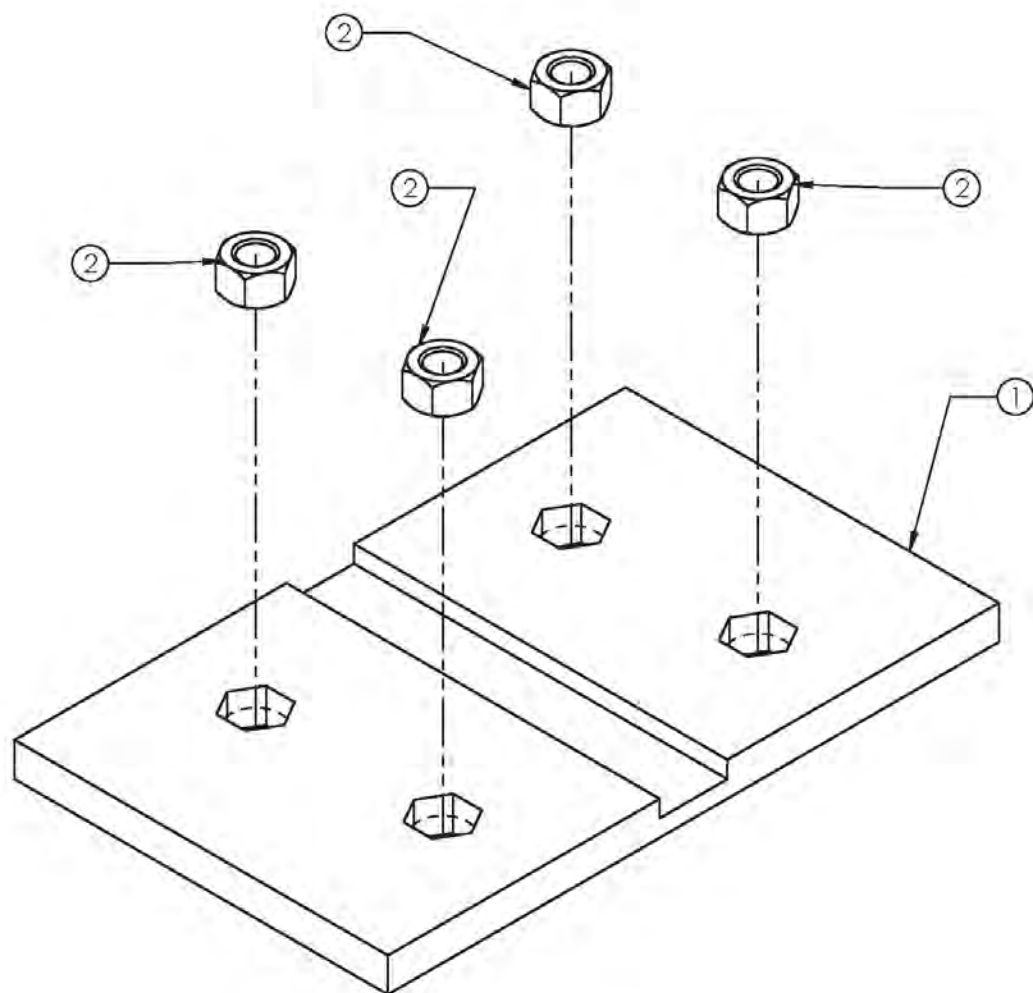
TA01350 Assy, 60' Main Frame 120"

ITEM	PART NUMBER	DESCRIPTION	QTY.	TORQUE (ft-lbs)
13	HB-0.625-11X2.25Y8	Bolt, Hex Head-5/8-11x2.25-YZ8	5	
14	HB-0.625-11X2.50Y8	Bolt, Hex Head-5/8-11x2.5-YZ8	1	
24	PIN-1.000X3.38Y	PIN-1.000X3.38Y	1	
26	PIN-1.000X5.75Y	Pin-1.0000x5.750-YZ	1	
32	SRING-EXT-HD-1.00Y	SRING-EXT-HD-1.00Y	10	
33	T0050854	Anti Rotation Insert	6	
54	TA01168	Assy, Tie Rod 120"	1	
55	TA01168	Assy, Tie Rod 120"	1	
58	TA01311	Steering Pivot Assy	1	
59	TA01637	Assy, Turnbuckle	1	
61	TW001012	Pin Weldment	2	
65	TW001170	Pin Weldment	1	



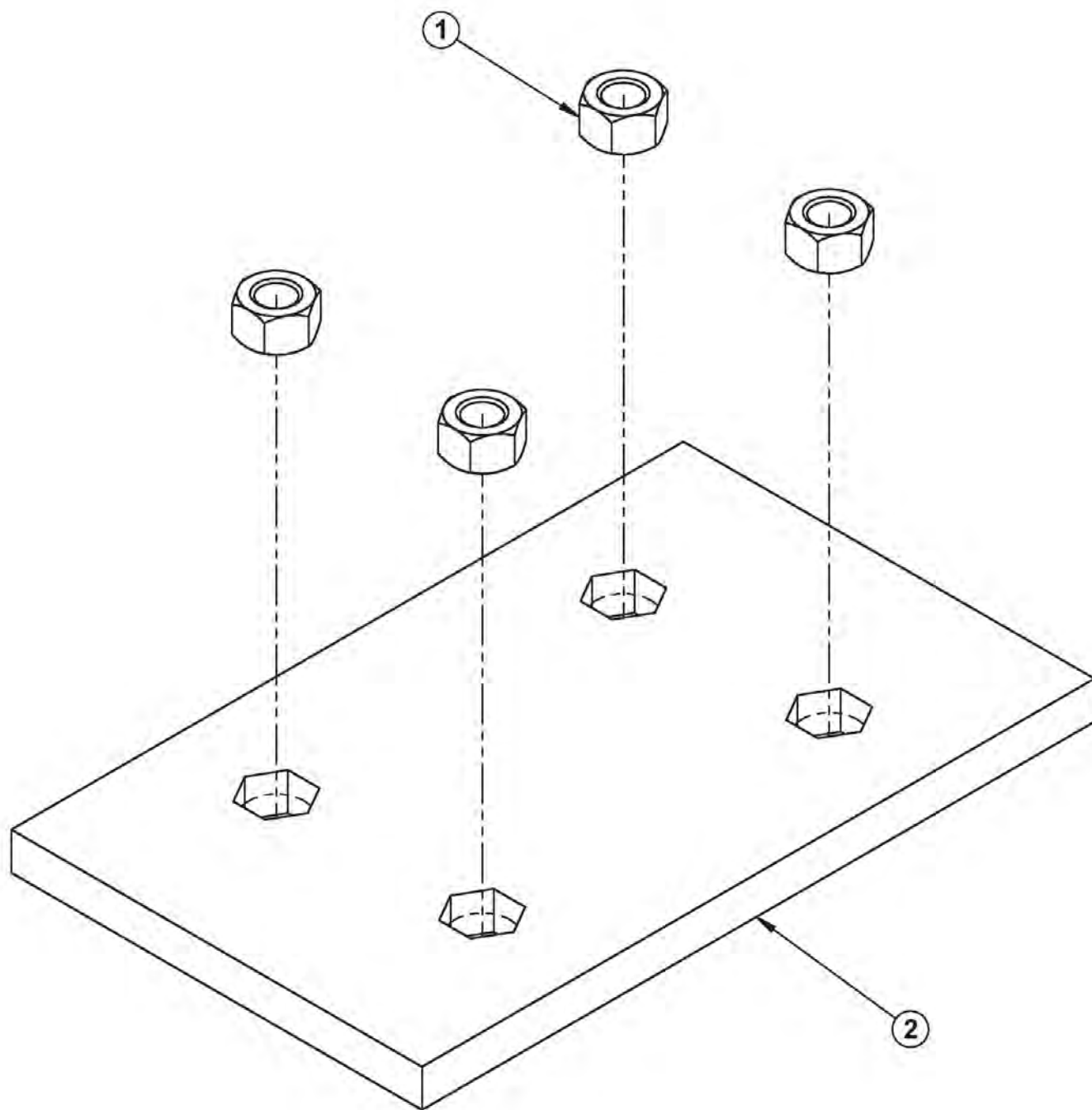
TA01350 Assy, 60' Main Frame 120"

ITEM	PART NUMBER	DESCRIPTION	QTY.	TORQUE (ft-lbs)
6	HB-0.313-18X1.25Y8	Bolt, Hex Hd 5/16-18x1-1/4 YZ8	2	
17	HS04-073-06FJ-06FJ-C	Hose 0.25-073-06FJX-06FJX-STC	1	
18	HS04-073-06FJ-06FJ-C	Hose 0.25-073-06FJX-06FJX-STC	1	
22	PCLMP-0.750x0.875	Clmp, Cus Pipe Ø3/4"x7/8"	2	
30	RN-0.375-16-.31-.44-Y	Rivnut, 3/8-16 UNC .31-.44 GR	4	
57	TA01239	Assy, Track Tension Valve	1	



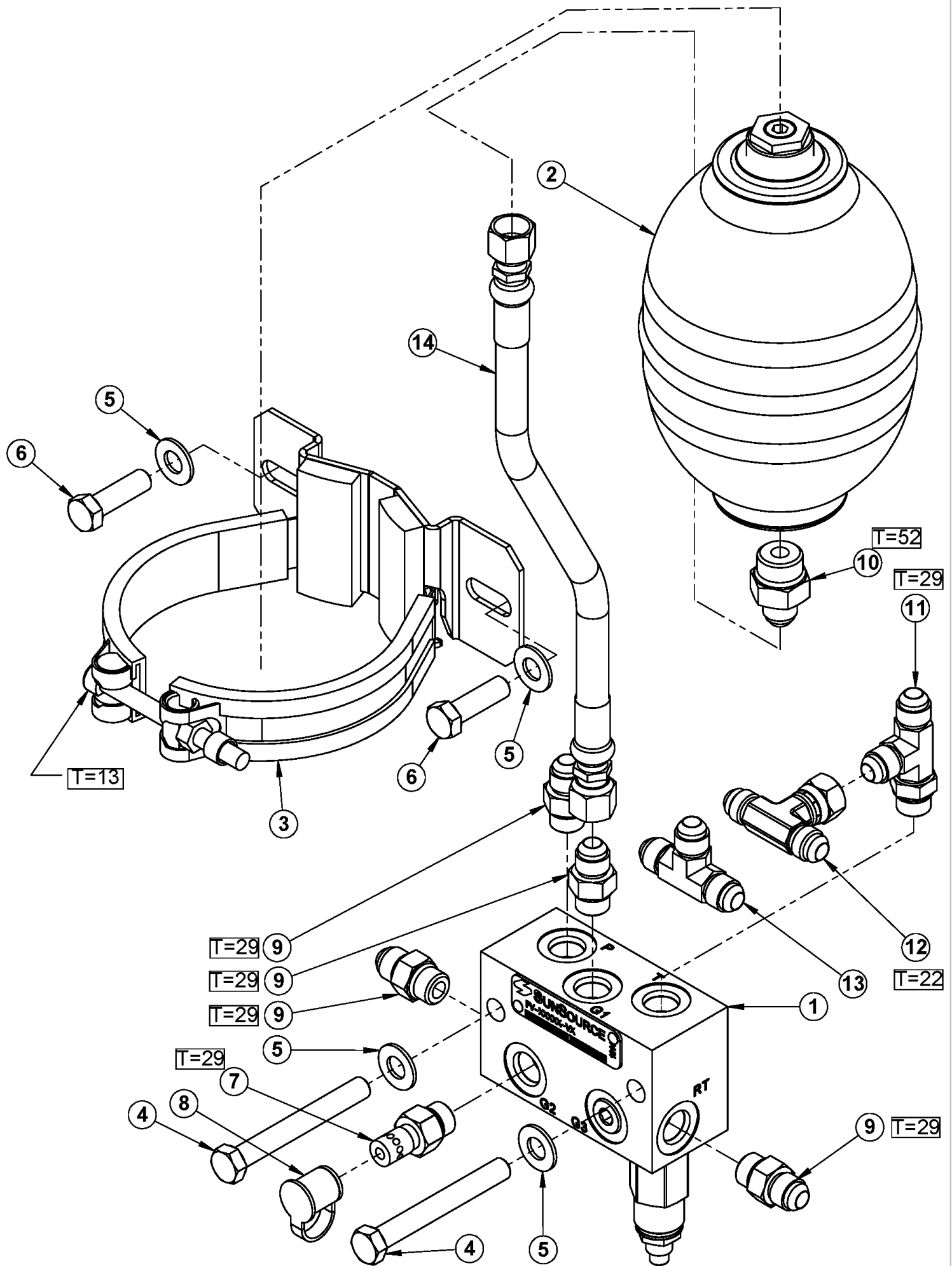
TA00843 Assy, Slider

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	



TA01239 Assy, Track Tension Valve

ITEM	PART NUMBER	DESCRIPTION	QTY	TORQUE (ft-lbs)
1	T0054379	Valve Assy, Track Tension	1	
2	T0054501	Accumulator, Track Tension	1	
3	TA01484	Assy, Accumulator Clamp	1	
4	HB-0.375-16X3.00Y8	HBolt-0.3750-16x3.000-YZ8	2	
5	FW-SAE-0.375Y	Washer, Flat SAE 3/8 YZ	4	
6	HB-0.375-16X1.25Y8	Bolt, Hex Hd 3/8-16x1-1/4 YZ8	2	
7	T0054476	Diagnostic Nipple	1	29
8	T0054469	Cap, Rubber	1	
9	AD-06MJ-06MB	Adapter, 06MJ-06MB	4	29
10	AD-06MJ-08MB	Adapter, 06MJ-08MB	1	52
11	AD-06MJ-06MB-06MJ	Adapter, 06MJ-06MB-06MJ Tee	1	29
12	AD-06MJ-06MJ-06FJX	Adapter, 06MJ-06MJ-06FJX Tee	1	22
13	AD-06MJ-06MJ-06MJ	Adapter, 06MJ-06MJ-06MJ Tee	1	
14	HS04-013-06FJ-06FJ-B	Hose 0.25-013-06FJX-06FJX	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

T=260

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

Paint tie rods black if needed

Remove small hose clamp and discard

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

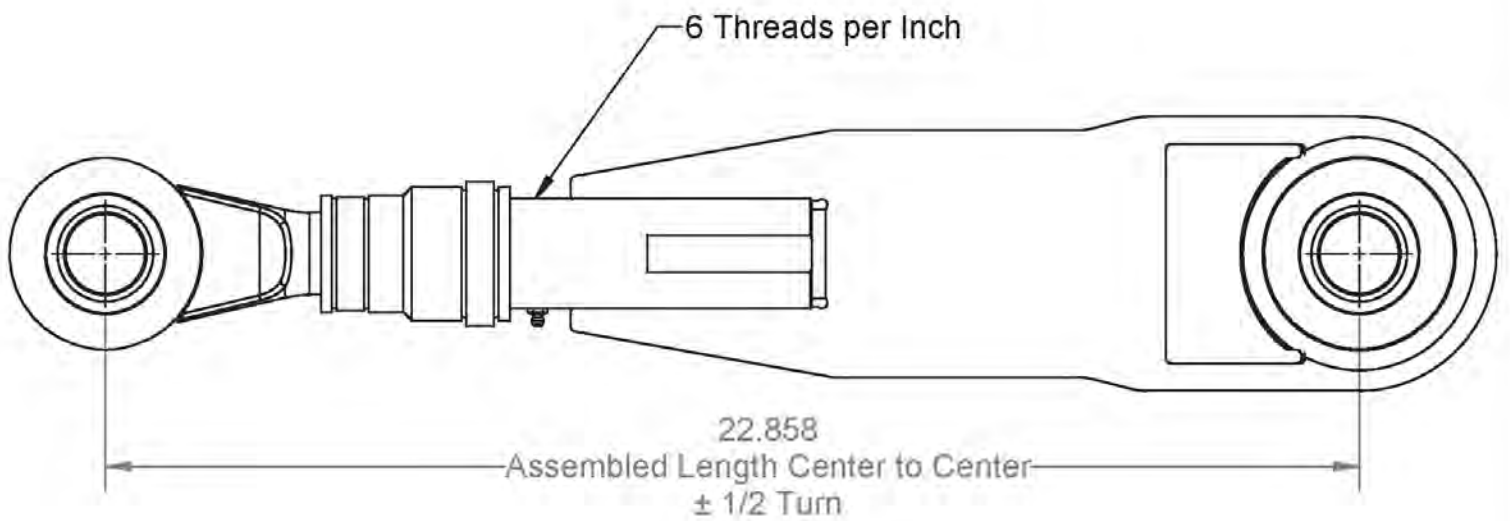
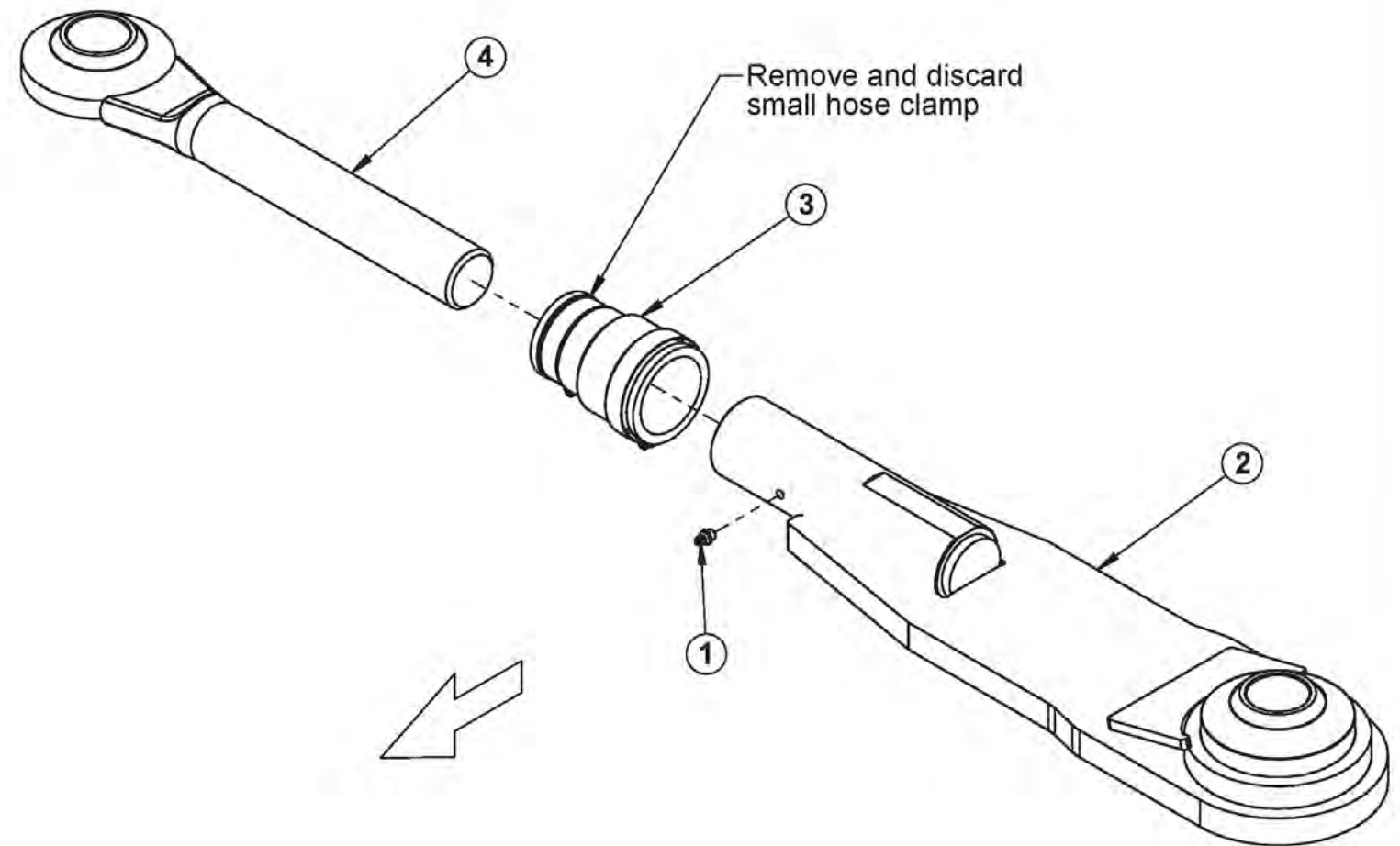
Starting Point Reference -
Further Adjustment May be
Required During Track
Alignment Procedure

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	

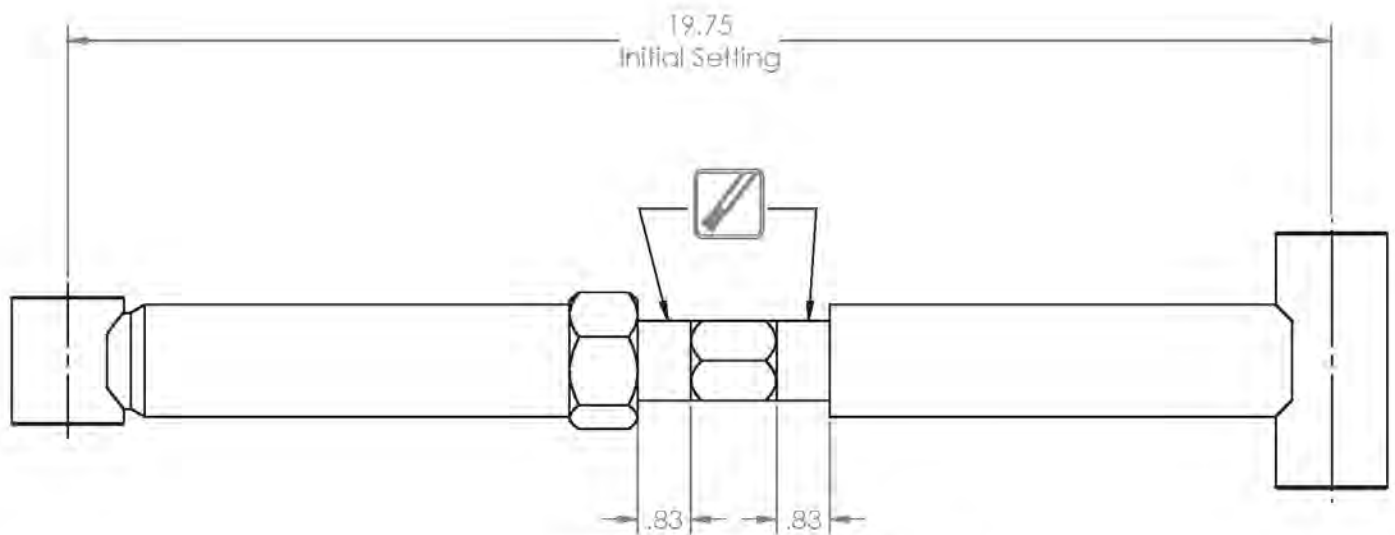
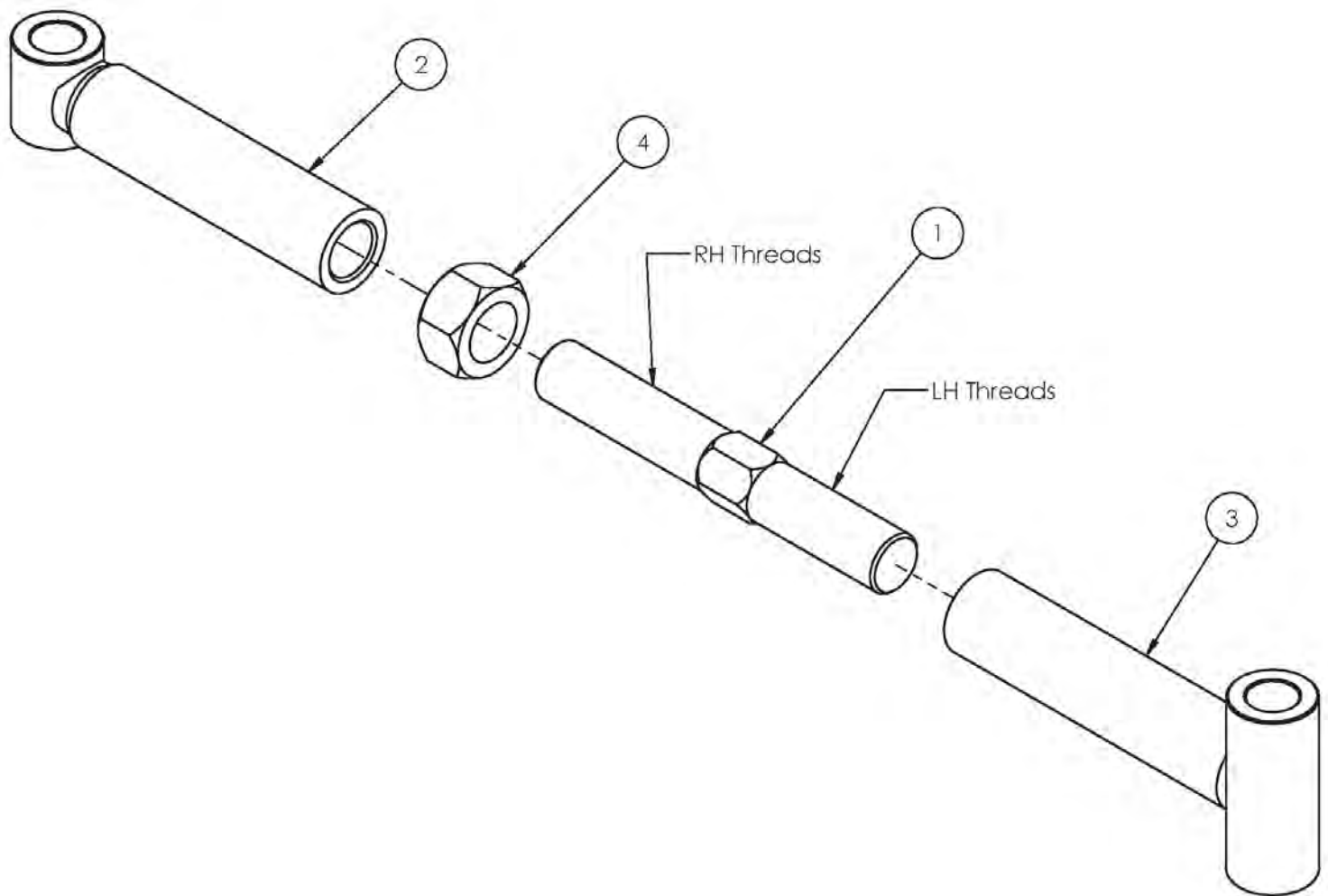
Note:

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	



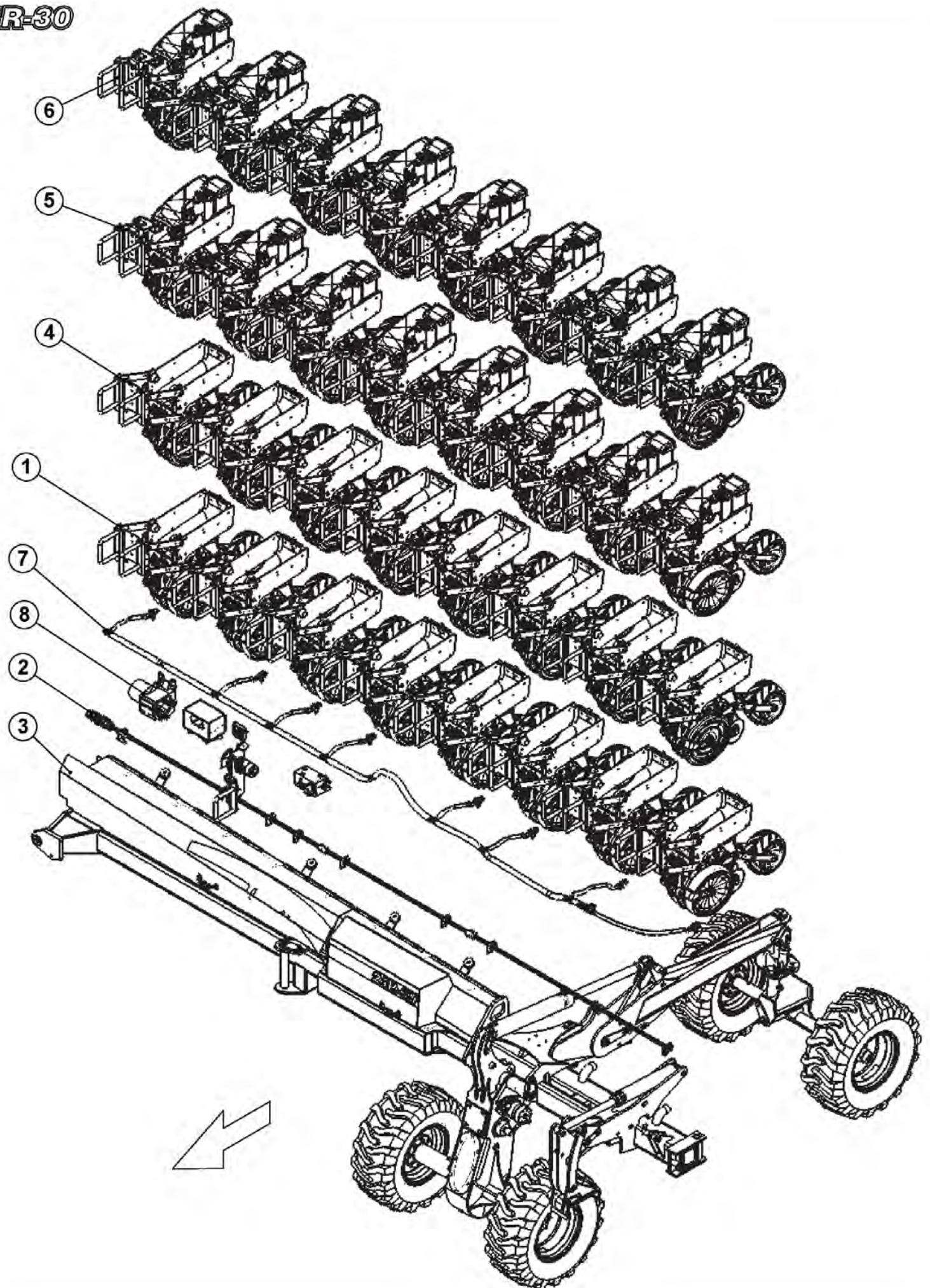
Thread lengths must be equal

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-Seize

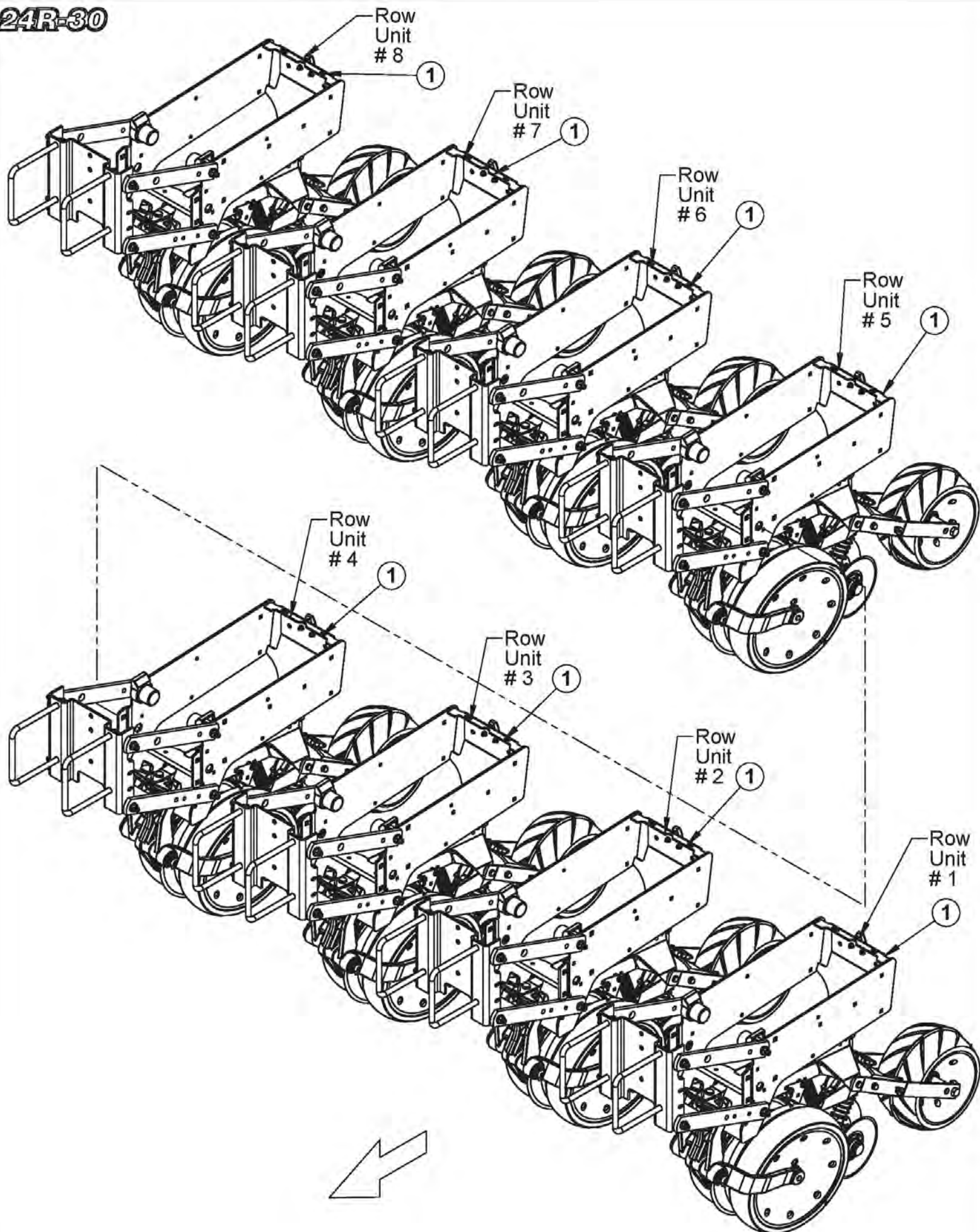


TA01264 Assy, 24R30 LH Wing

ITEM	PART NUMBER	DESCRIPTION	QTY.	TORQUE (ft-lbs)
1	TA01265	Assy, 24R30 LH Wing PR STD GW RUs	1	
2	TA01391	Assy, Seed Drive LH Wing Hyd-24R30	1	
3	TA01520	Assy, 24R30 LH Wing Base	1	
4	TA01521	Assy, 24R30 LH Wing PR NGW RUs	1	
5	TA01522	Assy, 24R30 LH Wing ASM STD GW RUs	1	
6	TA01523	Assy, 24R30 LH Wing ASM NGW RUs	1	
7	TA01574	Assy, 24R30 LH Wing Fert Routing	1	
8	TA01292	36R20 Precision Planting	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.

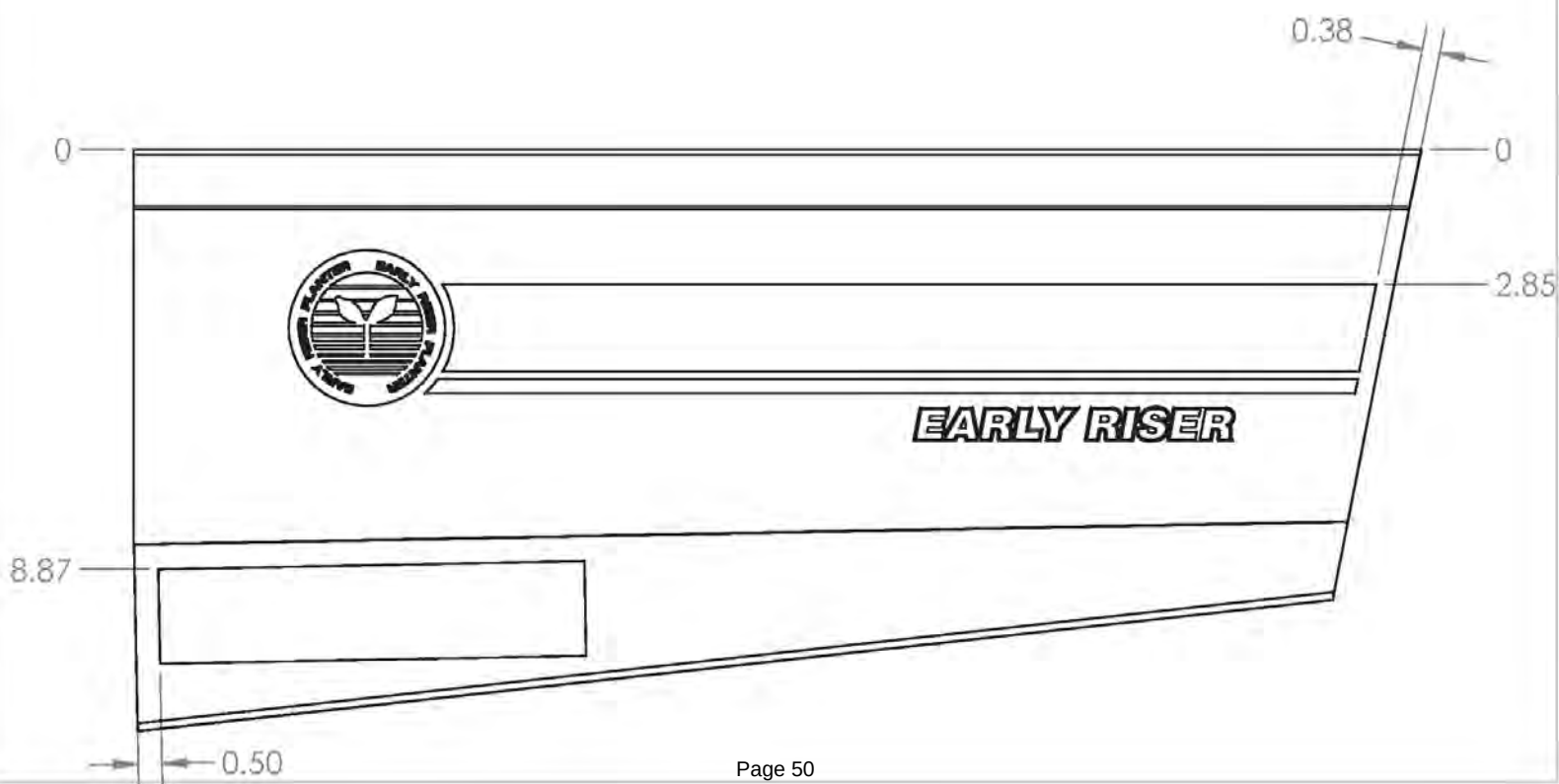
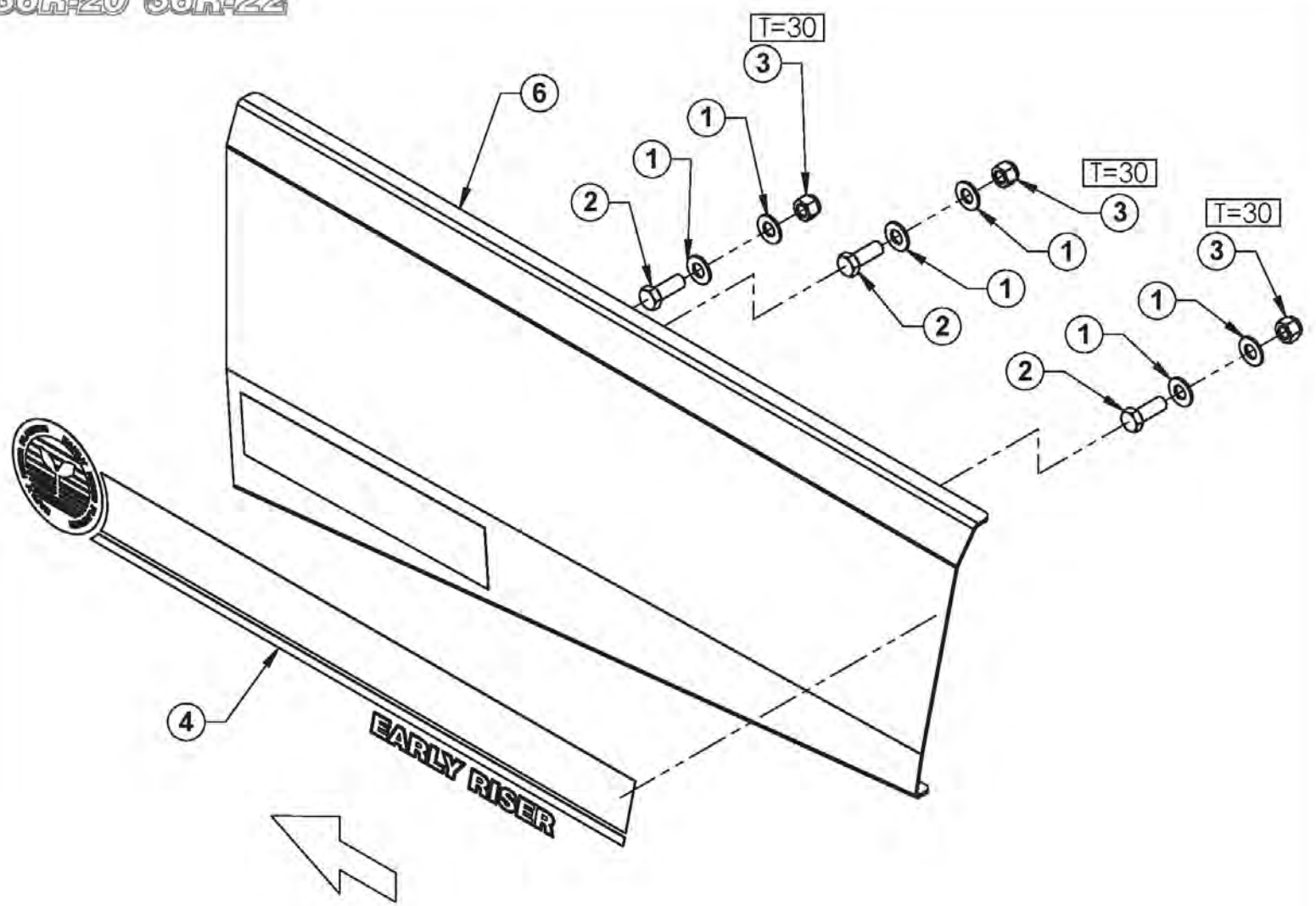


TA01265 Assy, 24R30 LH Wing PR STD GW RUs

ITEM	PART NUMBER	DESCRIPTION	QTY.	TORQUE (ft-lbs)
1	47876037	LH PR STD GW Row Unit	8	

Note:

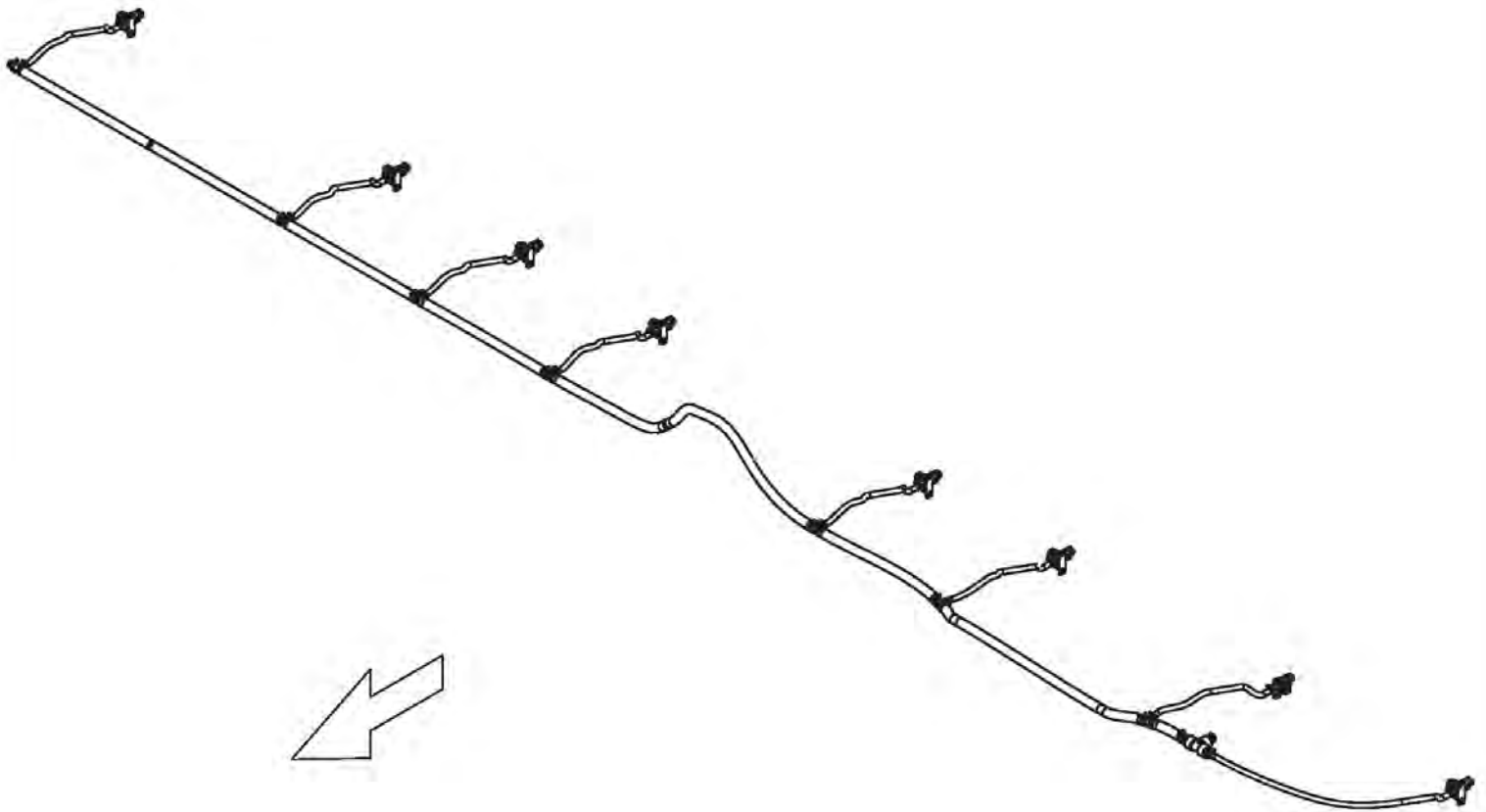
1. T=XXX = Torque Expressed in ft-lbs (Use standard torque values from drawing T0000000 unless otherwise specified).
2. * Items marked with an asterisk are items that are included in that particular part or assembly.



TA00669 Assy, Row Unit End Plate-LH

ITEM	PART NUMBER	DESCRIPTION	QTY	TORQUE (ft-lbs)
1	FW-SAE-0.375Y	Washer, Flat SAE 3/8" YZ	6	
2	HB-0.375-16X1.00Y8	Bolt, Hex Hd 3/8-16x1-YZ8	3	
3	NLNUT-0.375-16Y8	Nut, Nylock 3/8-16 YZ8	3	30
4	T0051489	Decal, Early Riser Planter-LH	1	
5	T0051729	Decal, Reflector, Yellow-2x9	1	
6	TW000669	Wdmt, End Shield Row Unit-LH	1	

Note:**T** = Torque Expressed in ft-lbs



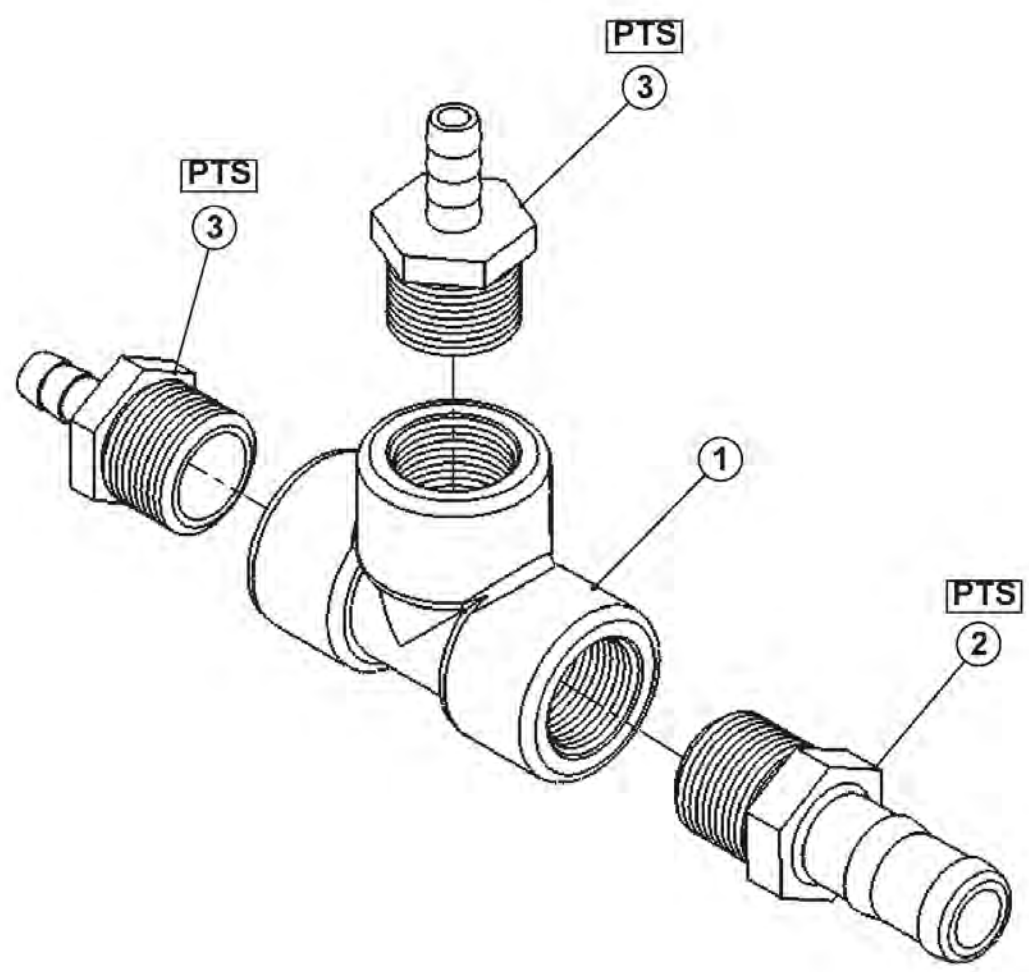
See P/N T0055475 Schematic, Fertilizer Routing LH Wing 24R30

TA01574 Assy, 24R30 LH Wing Fert Routing

ITEM	PART NUMBER	DESCRIPTION	QTY.	TORQUE (ft-lbs)
1	HCLMP-SAE-06SS	Hose Clamp, SAE #6-SS	17	
2	HCLMP-SAE-12SS	Hose Clamp, SAE #12-SS	15	
3	T0051533	Tee Jet Clip RH	7	
4	T0051651	TeeJet Clip LH	1	
5	T0051652	Plate Check Valve Mount	8	
6	T0052308	Barbed Tee 3/4" x 3/4" x 3/8"	7	
7	TA00674	Tee Jet Valve Assy	1	
8	TA00674	Tee Jet Valve Assy	1	
9	TA00674	Tee Jet Valve Assy	1	
10	TA00674	Tee Jet Valve Assy	1	
11	TA00674	Tee Jet Valve Assy	1	
12	TA00674	Tee Jet Valve Assy	1	
13	TA00674	Tee Jet Valve Assy	1	
14	TA00674	Tee Jet Valve Assy	1	
15	TA01051	Assy, Mnfld End	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.

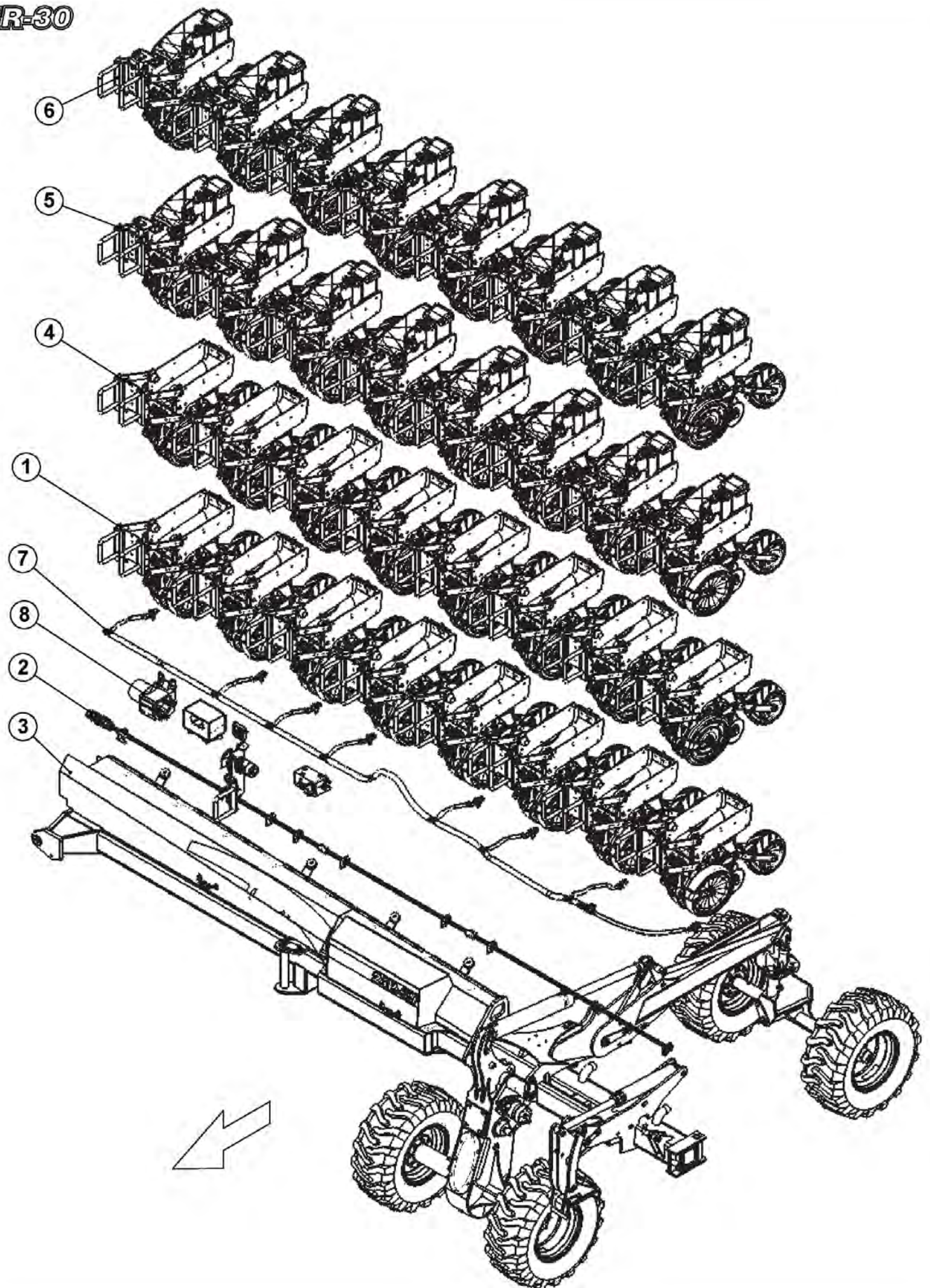


TA01051 Assy, Mnfld End

ITEM	PART NUMBER	DESCRIPTION	QTY	TORQUE (ft-lbs)
1	T0051558	Tee 3/4" Threaded	1	
2	T0051512	3/4" MPT x 3/4" HB	1	
3	T0051543	Hose Barb 3/4" MPT x 3/8" HB	2	

Notes:

1. **PTS** = Apply pipe thread sealant, use Rectorseal #21 or equivalent.

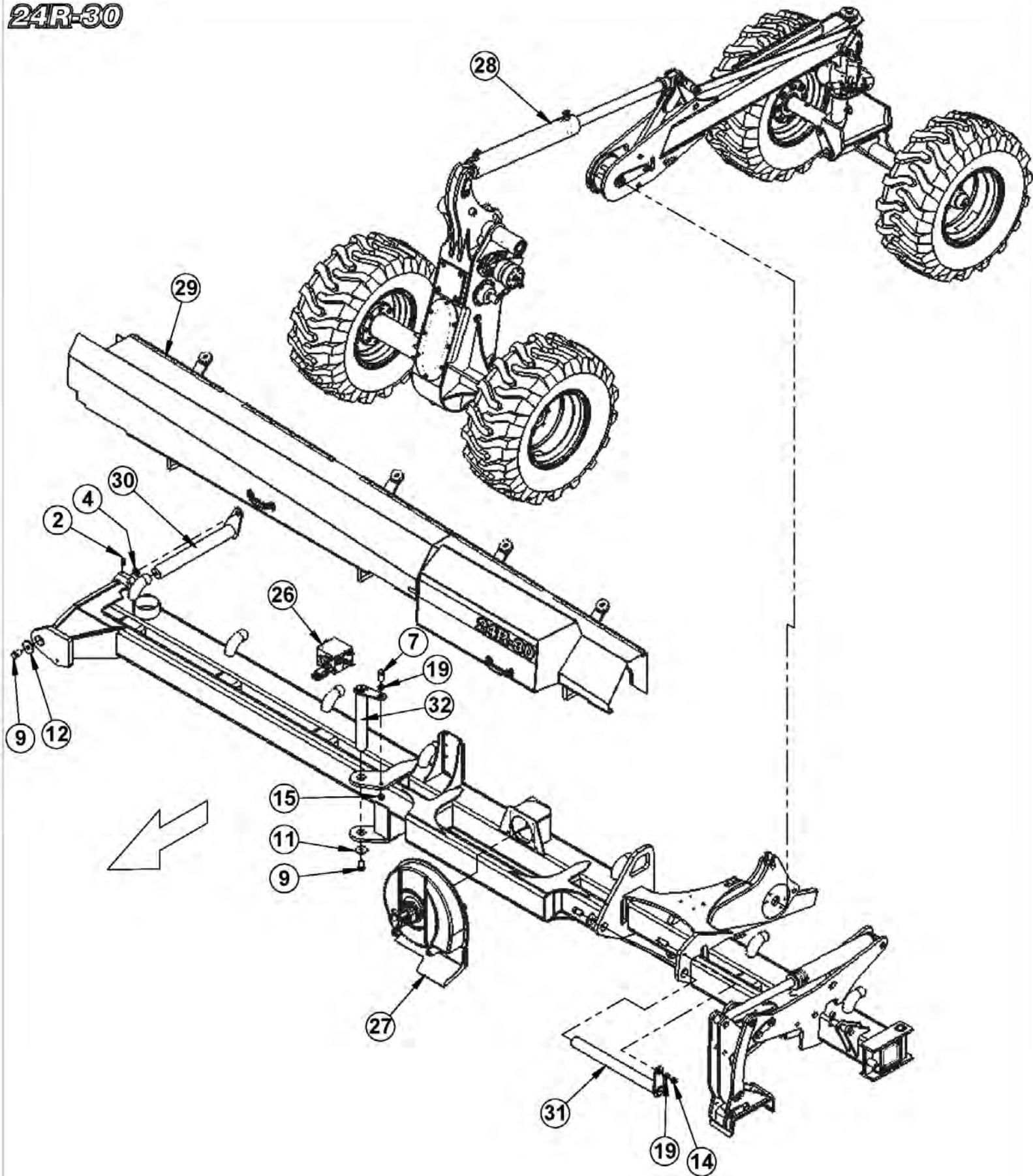


TA01264 Assy, 24R30 LH Wing

ITEM	PART NUMBER	DESCRIPTION	QTY.	TORQUE (ft-lbs)
1	TA01265	Assy, 24R30 LH Wing PR STD GW RUs	1	
2	TA01391	Assy, Seed Drive LH Wing Hyd-24R30	1	
3	TA01520	Assy, 24R30 LH Wing Base	1	
4	TA01521	Assy, 24R30 LH Wing PR NGW RUs	1	
5	TA01522	Assy, 24R30 LH Wing ASM STD GW RUs	1	
6	TA01523	Assy, 24R30 LH Wing ASM NGW RUs	1	
7	TA01574	Assy, 24R30 LH Wing Fert Routing	1	
8	TA01292	36R20 Precision Planting	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.

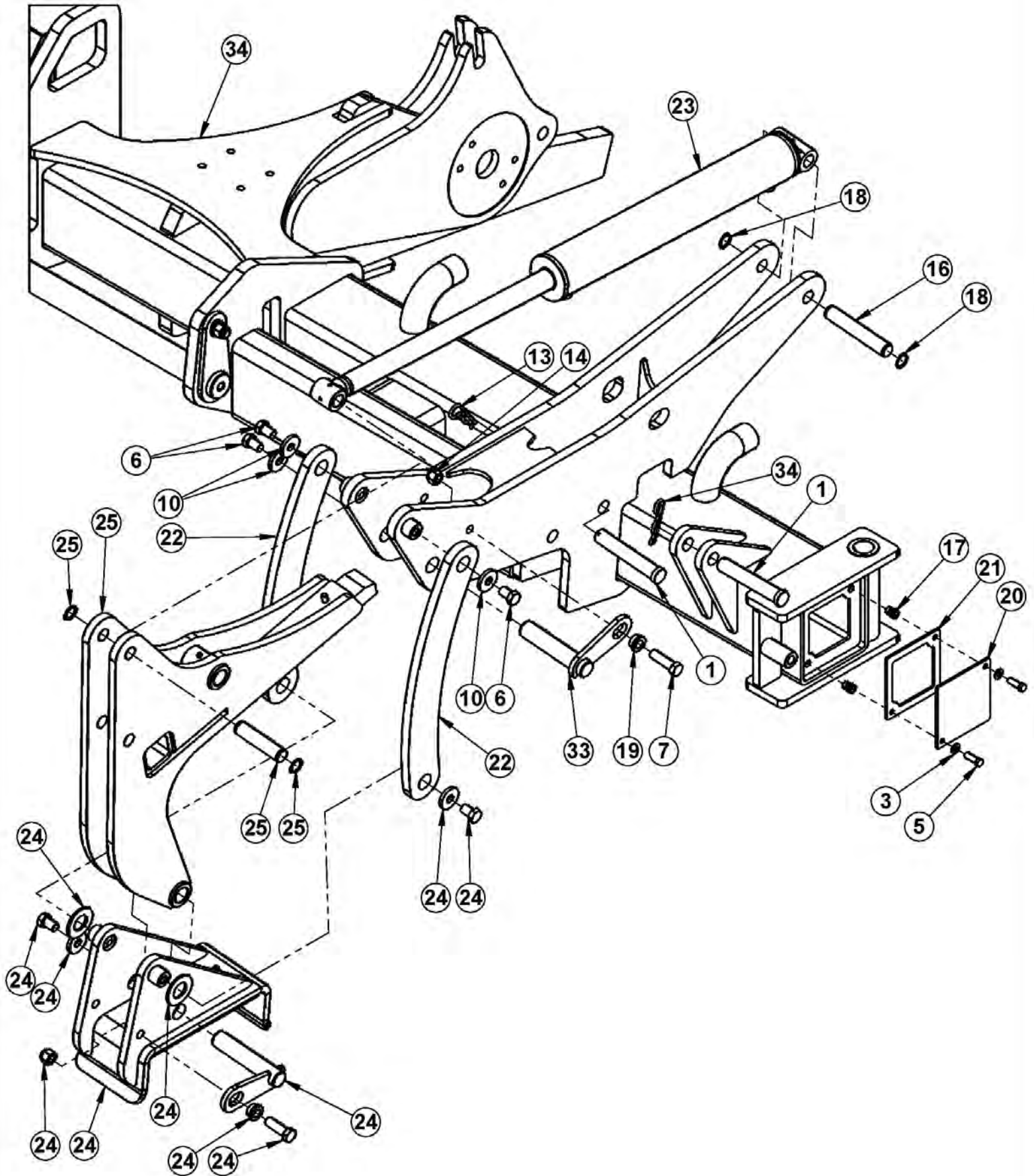


TA01520 Assy, 24R30 LH Wing Base (Sheet 1 of 2)

ITEM	PART NUMBER	DESCRIPTION	QTY.	TORQUE (ft-lbs)
1	CLPIN-1.000X6.00Y	Clevis Pin, Ø1" X 6" YZ	2	
2	CTPIN-0.250X2.00	PIN, COTTER-1/4 X 2	1	
3	FW-SAE-0.375Y	Washer, Flat SAE 3/8" YZ	2	
4	FW-SAE-1.000Y	Washer, Flat SAE-1.0-YZ	1	
5	HB-0.375-16X1.25Y8	Bolt, Hex Hd 3/8-16x1-1/4 YZ8	2	
6	HB-0.625-11X1.00Y8	Bolt, Hex Hd 5/8-11x1 YZ8	3	
7	HB-0.625-11X2.25Y8	Bolt, Hex Head-5/8-11x2.25-YZ8	2	
8	HB-0.625-11X2.50Y8	Bolt, Hex Head-5/8-11x2.5-YZ8	1	
9	HB-0.875-9X1.75Y8	Bolt, Hex Hd 7/8-9x1-3/4-YZ8	3	
10	HDWSH-0.64X1.75Y	HD Washer 0.64 x 1.75	3	
11	HDWSH-0.89X2.50Y	HD Washer 0.89 x 2.50	2	
12	HDWSH-0.89X3.00Y	HD Washer 0.89 x 3.00	1	
13	HPINCLIP-1.000Y	Hair Pin Clip-Ø1.0000" YZ	2	
14	NLNUT-0.625-11Y8	Nut, Nylock-5/8-11-YZ8	2	
15	NLNUT-0.625-18Y8	Nut, Nylock-5/8-18-YZ8	1	
16	PIN-1.000X5.75Y	Pin-1.0000x5.750-YZ	1	
17	RN-0.375-16-.15-.31Y	Rivnut, 3/8-16 .150-.312 YZ	2	
18	SRING-EXT-HD-1.00Y	SRING-EXT-HD-1.00Y	2	
19	T0050854	Anti Rotation Insert	3	
20	T0052124	Clean Out Cover	1	
21	T0052125	Seal, Clean Out Cover	1	
22	T0053164	Linkage, Wing Lift	2	
23	TA00963	Cylinder, Hyd 3.00X20.00	1	
24	TA00979	Assy, Wing Engagement	1	
25	TA00980	Wing Lift Assy	1	
26	TA01243	Assy, Valve LH Fan Meter Cntrl	1	
27	TA01245	Assy, Fan	1	
28	TA01376	Wing Wheel Assy	1	
29	TA01389	LH Wing Shield Assy	1	
30	TW000611	Pin Weldment	1	
31	TW000717	Pin Weldment	1	
32	TW000794	Pin Weldment	1	
33	TW000906	Pin Weldment	1	
34	TW001152	Wldmt, 24R30 LH Wing	1	

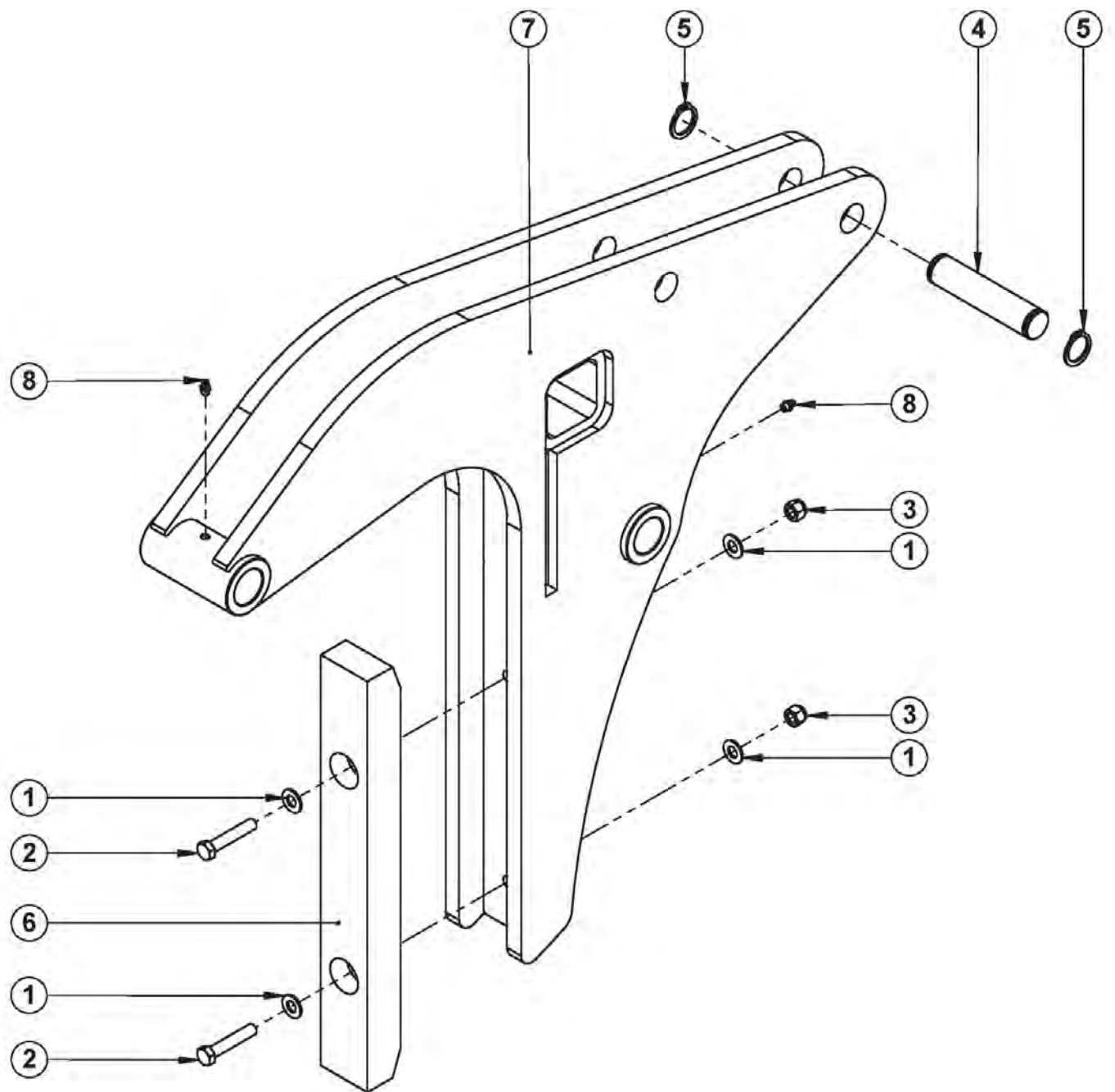
Note:

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.



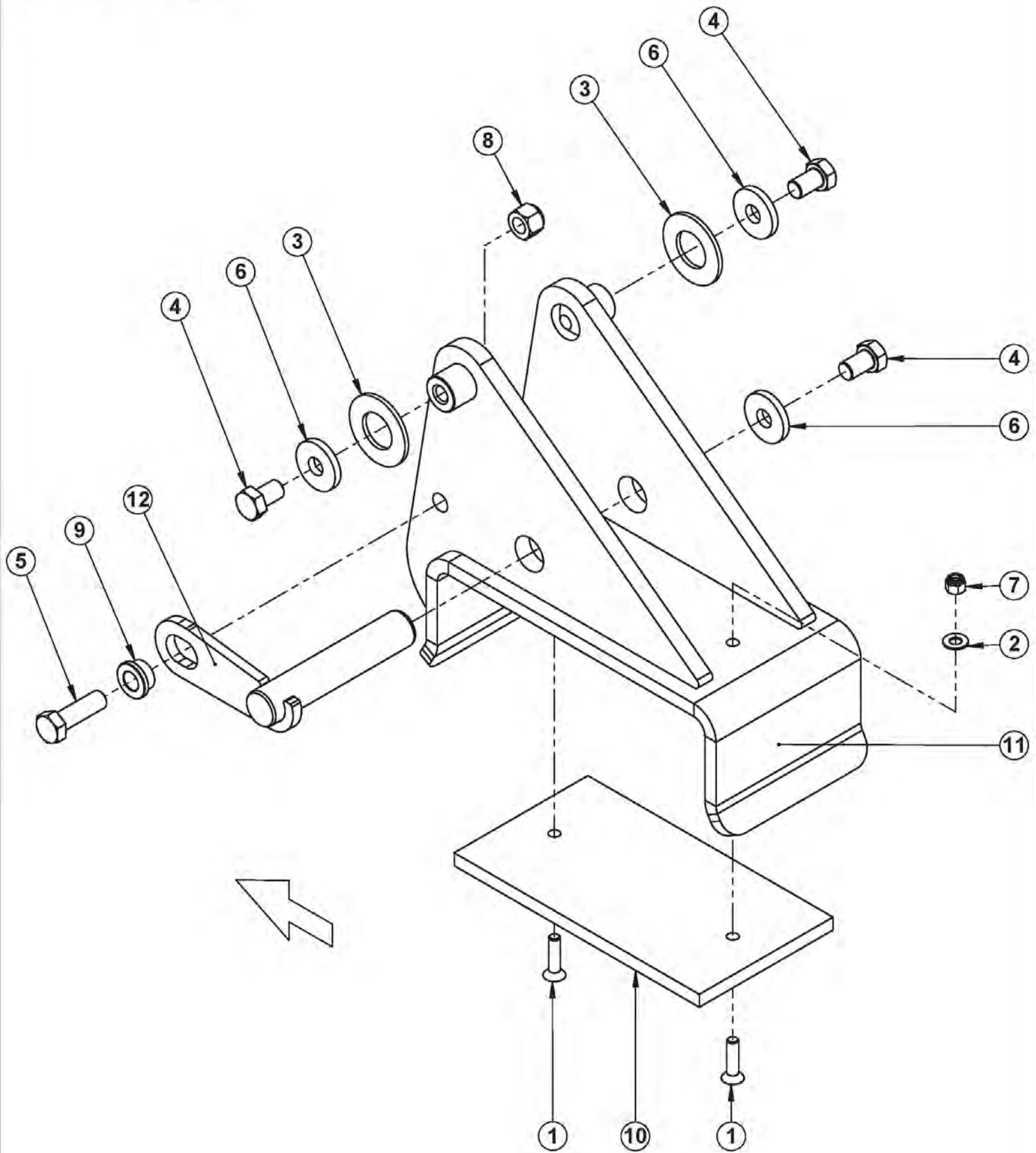
TA01520 Assy, 24R30 LH Wing Base (Sheet 2 of 2)

ITEM	PART NUMBER	DESCRIPTION	QTY.	TORQUE (ft-lbs)
1	CLPIN-1.000X6.00Y	Clevis Pin, Ø1" X 6" YZ	2	
3	FW-SAE-0.375Y	Washer, Flat SAE 3/8" YZ	2	
5	HB-0.375-16X1.25Y8	Bolt, Hex Hd 3/8-16x1-1/4 YZ8	2	
6	HB-0.625-11X1.00Y8	Bolt, Hex Hd 5/8-11x1 YZ8	3	
7	HB-0.625-11X2.25Y8	Bolt, Hex Head-5/8-11x2.25-YZ8	2	
10	HDWSH-0.64X1.75Y	HD Washer 0.64 x 1.75	3	
13	HPINCLIP-1.000Y	Hair Pin Clip-Ø1.0000" YZ	2	
14	NLNUT-0.625-11Y8	Nut, Nylock-5/8-11-YZ8	2	
16	PIN-1.000X5.75Y	Pin-1.0000x5.750-YZ	1	
17	RN-0.375-16-.15-.31Y	Rivnut, 3/8-16 .150-.312 YZ	2	
18	SRING-EXT-HD-1.00Y	SRING-EXT-HD-1.00Y	2	
19	T0050854	Anti Rotation Insert	3	
20	T0052124	Clean Out Cover	1	
21	T0052125	Seal, Clean Out Cover	1	
22	T0053164	Linkage, Wing Lift	2	
23	TA00963	Cylinder, Hyd 3.00X20.00	1	
24	TA00979	Assy, Wing Engagement	1	
25	TA00980	Wing Lift Assy	1	
33	TW000906	Pin Weldment	1	
34	TW001152	Wldmt, 24R30 LH Wing	1	



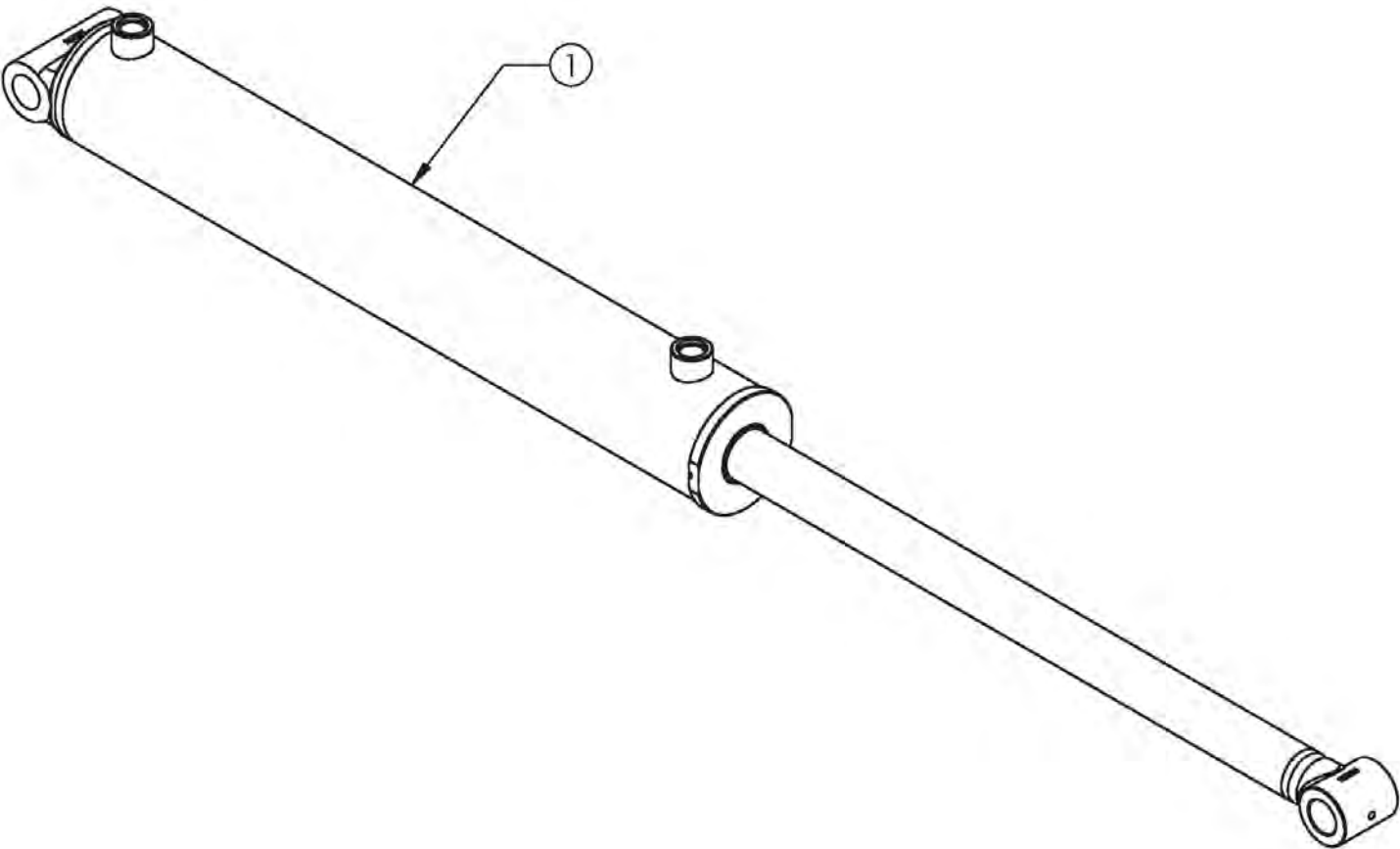
TA00980 Wing Lift Assy

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	



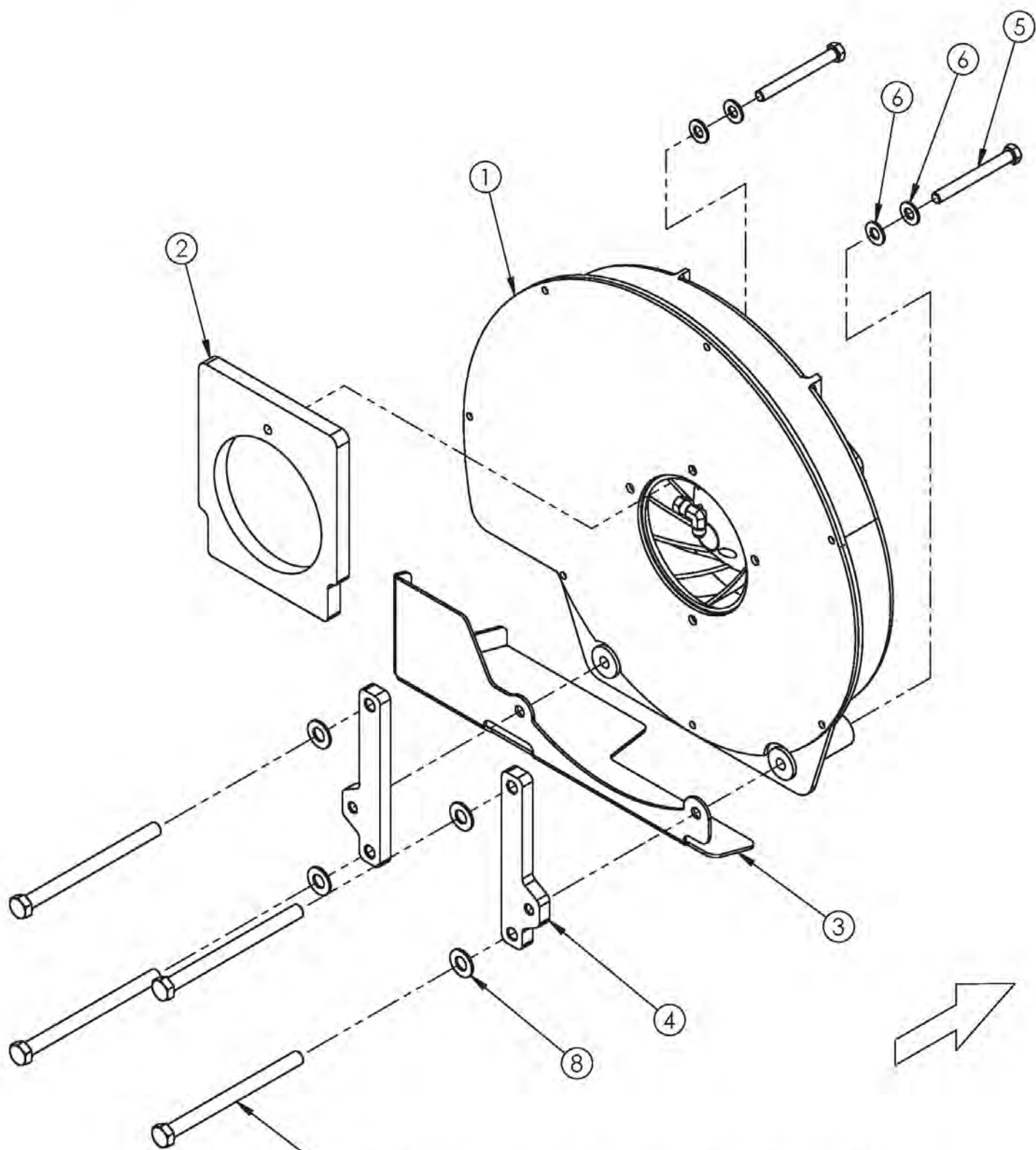
TA00979 Assy, Wing Engagement

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	



TA00963 Cylinder, Hyd 3.00X20.00

ITEM	PART NUMBER	DESCRIPTION	QTY.	TORQUE (ft-lbs)
1	T0053106	Cylinder Hydraulic Base	1	
2	TA00963	Cylinder	1	



⑦ This Item replaces UBolt and Hex Nut supplied with Row Unit for mounting. Insert Item through Row Unit Mounting Brackets and Fasten to Fan Mount Plate.

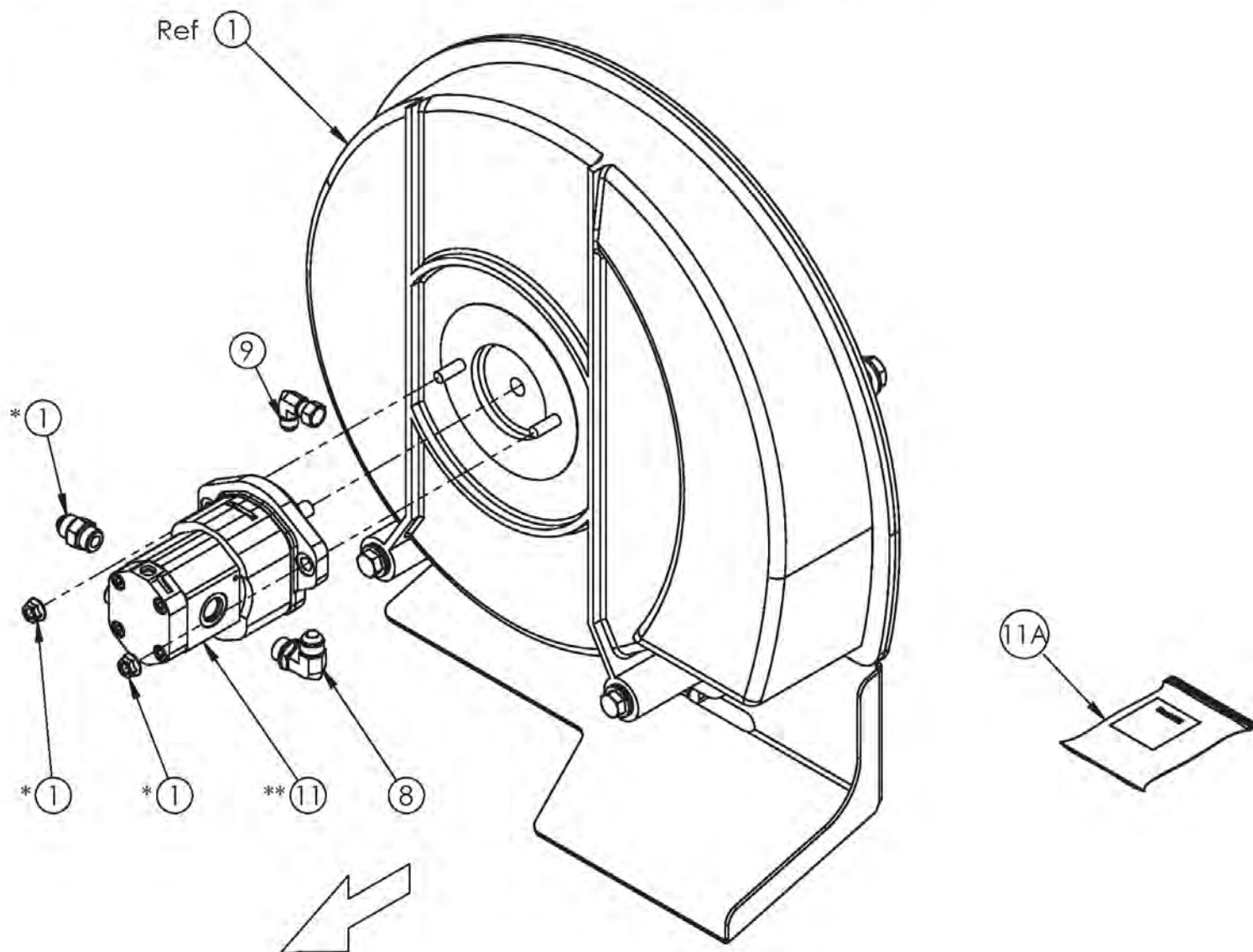
TA01245 Assy, Fan

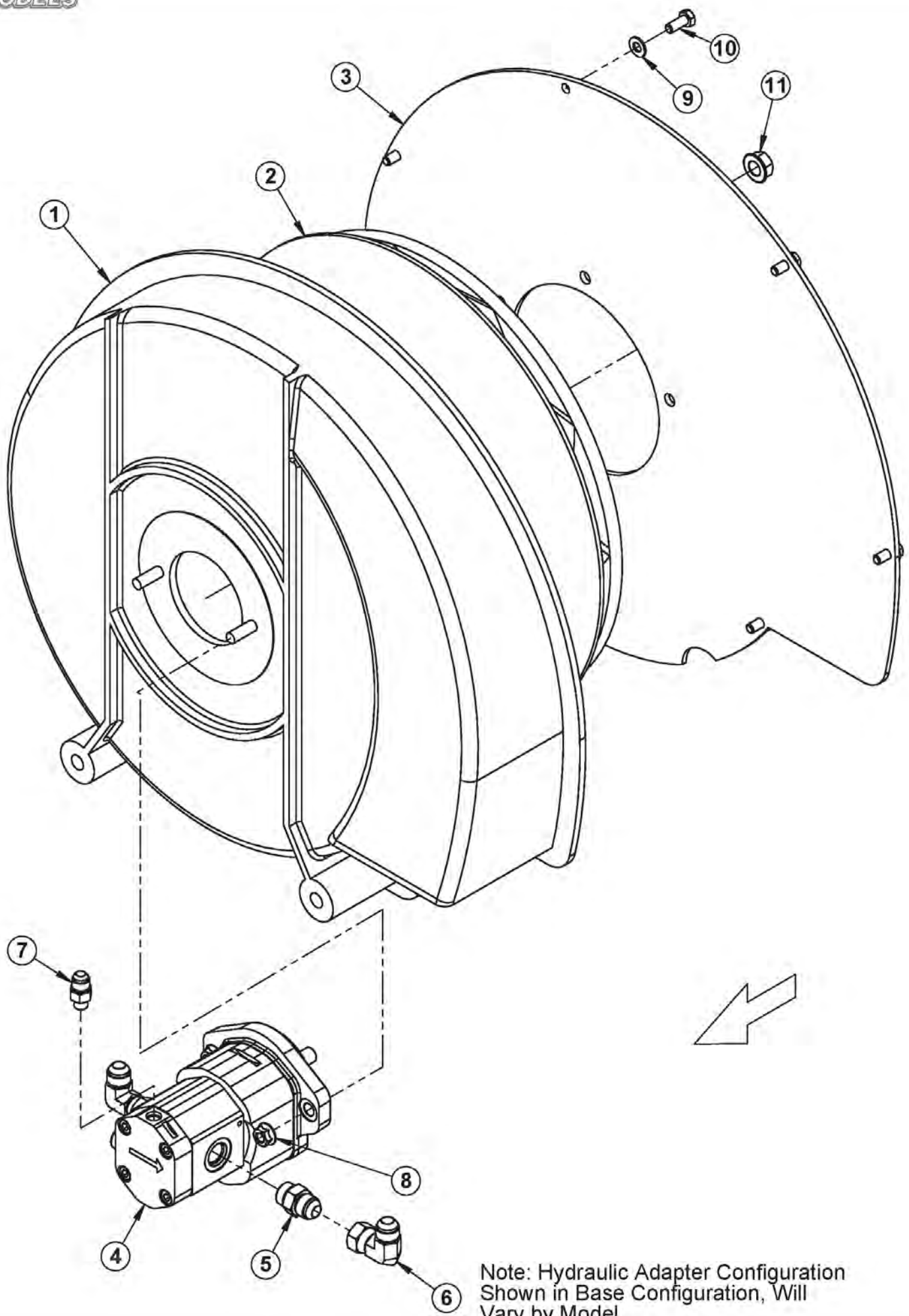
ITEM	PART NUMBER	DESCRIPTION	QTY.	TORQUE (ft-lbs)
1	TA01208	Fan, Vacuum w/Motor 6cc	1	
2	T0054664	Seal, Vac to Plenum	1	
3	TW000801	Wdmt, Fan Deflector	1	
4	T0054574	Mount, Row Unit/ Fan	2	
5	HB-0.500-13X4.50Y8	Bolt, Hex Hd 1/2-13x4-1/2-YZ8	2	
6	FW-SAE-0.500Y	Washer, Flat SAE - 1/2-YZ	4	
7	HB-0.625-11X8.00Y8	Bolt, Hex Hd-5/8-11x8-YZ8	4	
8	FW-SAE-0.625Y	Washer, Flat-SAE-5/8	4	
9	AD-08MJ-08MB-90	ADAPTER 08MJ-08MB 90	1	
10	AD-06MJ-06FJX-90	ADAPTER 06MJ-06FJX 90	1	
11	T0054396	Motor, Fan Drive 6cc	1	
11A	T0054656	Seal Kit, Fan Motor	1	

Note:

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

** Item 11 is included with Item 1, can be ordered separately if needed





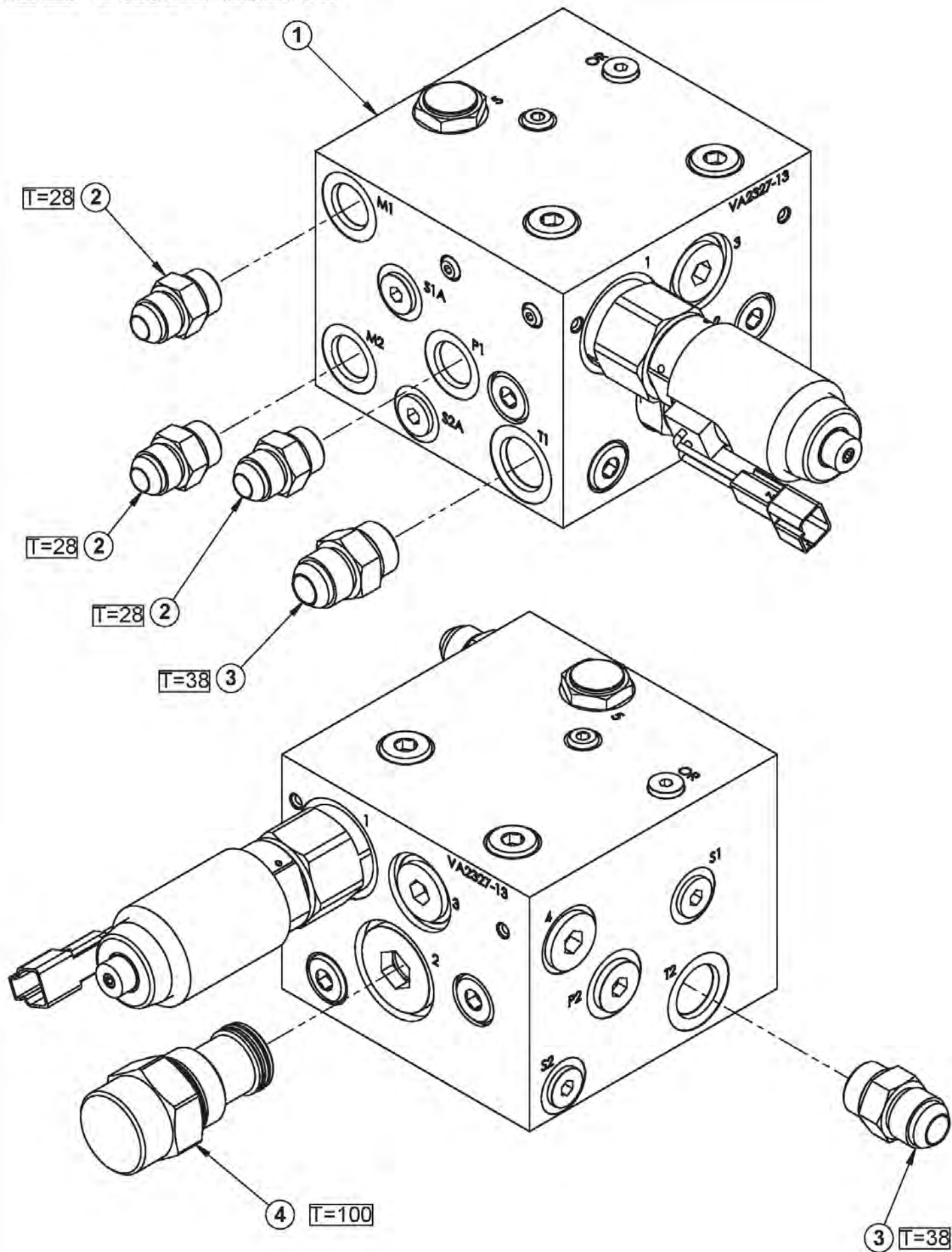
Note: Hydraulic Adapter Configuration
Shown in Base Configuration, Will
Vary by Model

TA01208 Fan, Vacuum w/Motor 6cc

ITEM	PART NUMBER	DESCRIPTION	QTY.	TORQUE (ft-lbs)
1	T0051281	Housing, Fan	NSS	
2	T0051199	Impeller, Fan	NSS	
3	T0051282	Plate, Fan Back	NSS	
4	T0054396	Kit, 6cc Motor Upgrade	1	
5	AD-08MJ-08MB	Adapter, 08MJ-08MB	2	
6	AD-08MJ-08FJX-90	Adapter, 08MJ-08FJX 90	2	
7	AD-06MJ-04MB	Adapter, 06MJ-04MB	1	
8	FLSHN-0.375-16C5	Nut, Ser Hex Flange 3/8-16 CZ5	2	30
9	FW-SAE-0.313C5	Washer, Flat SAE 5/16 CZ5	7	
10	HB-0.313-18X0.75C5	Bolt, Hex Hd 5/16-18x3/4 CZ5	7	20
11	FLSHN-0.500-20C5	Nut, Ser Hex Flange 1/2-20 CZ5	1	65

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.



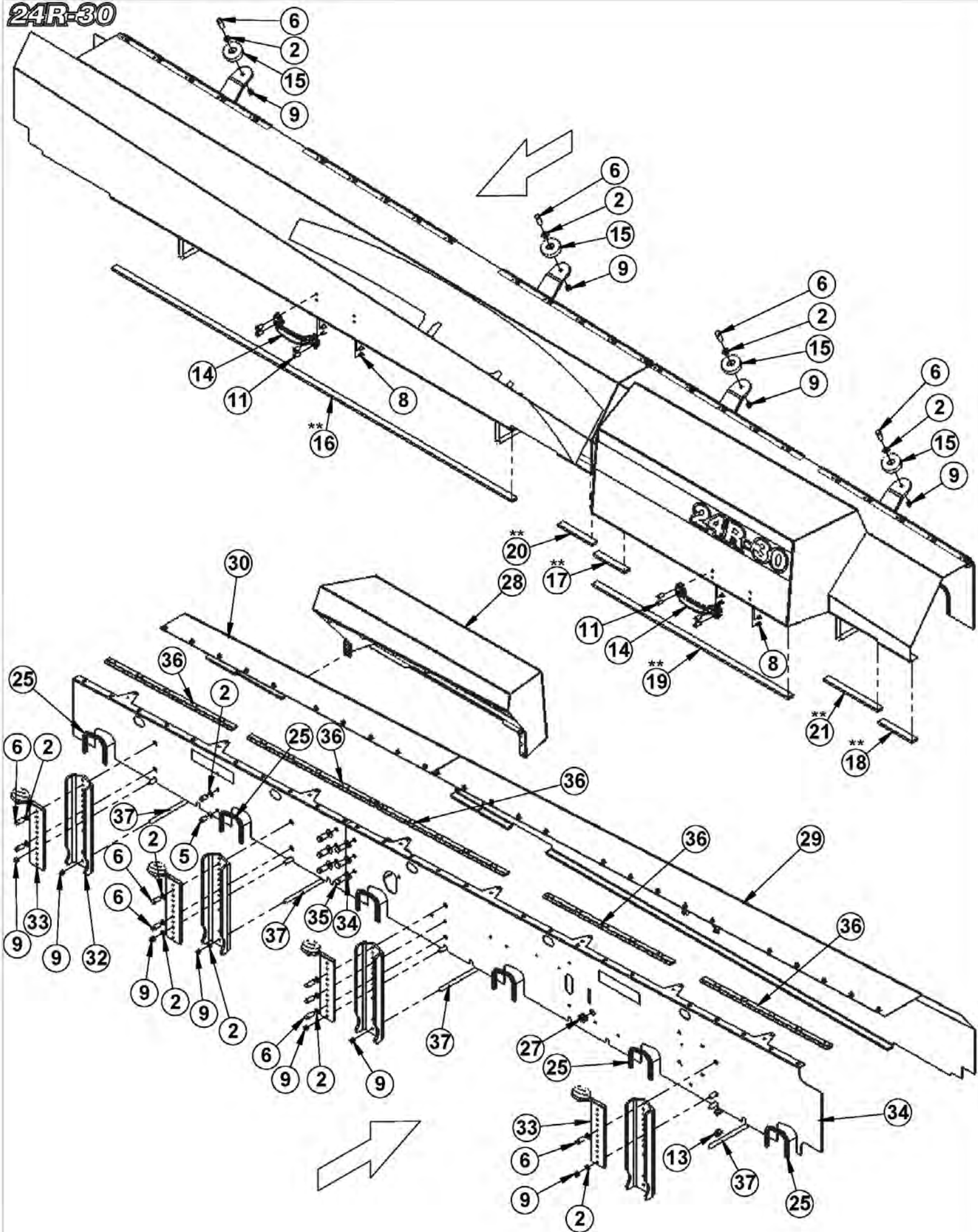
TA01243 Assy, Valve LH Fan Meter Cntrl

ITEM	PART NUMBER	DESCRIPTION	QTY.	TORQUE (ft-lbs)
1	T0054381	Assy, Fan Ctrl Valve	1	
2	AD-08MJ-08MB	ADAPTER 08MJ-08MB	3	28
3	AD-10MJ-10MB	ADAPTER 10MJ-10MB	2	38
4	T0055197	Cartridge, Flow Control 9.0 GPM	1	100

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.

24R-30

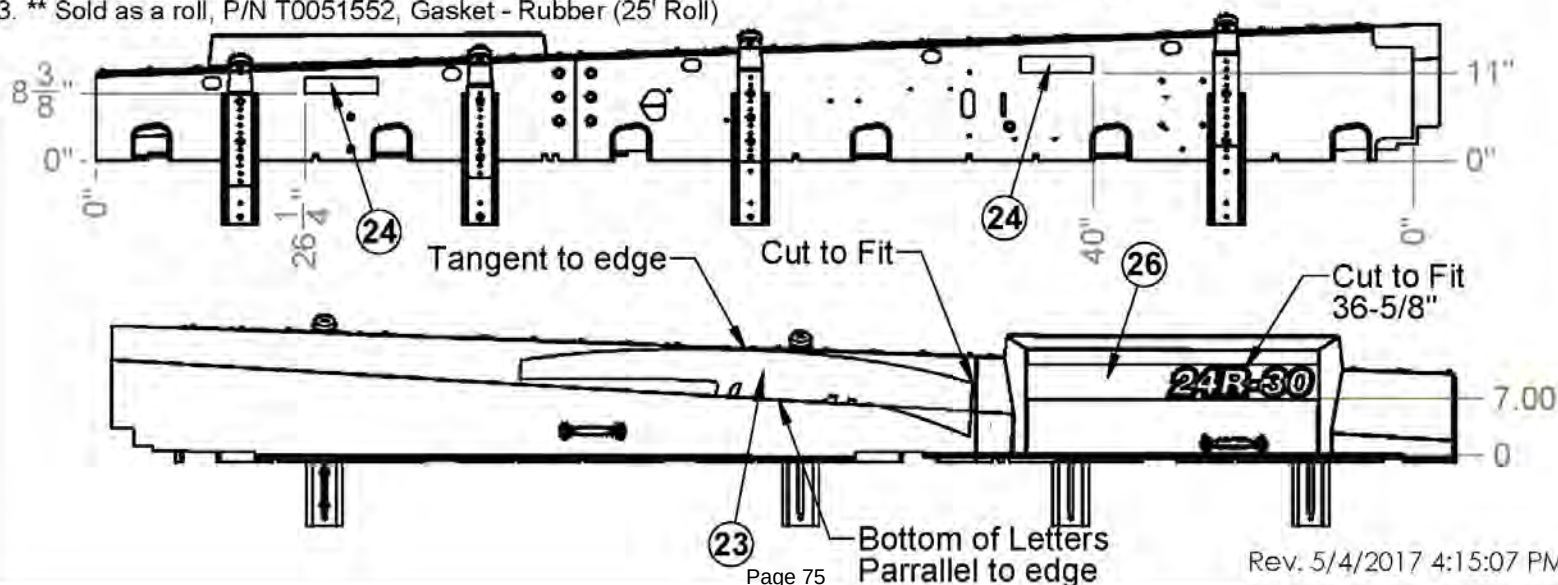


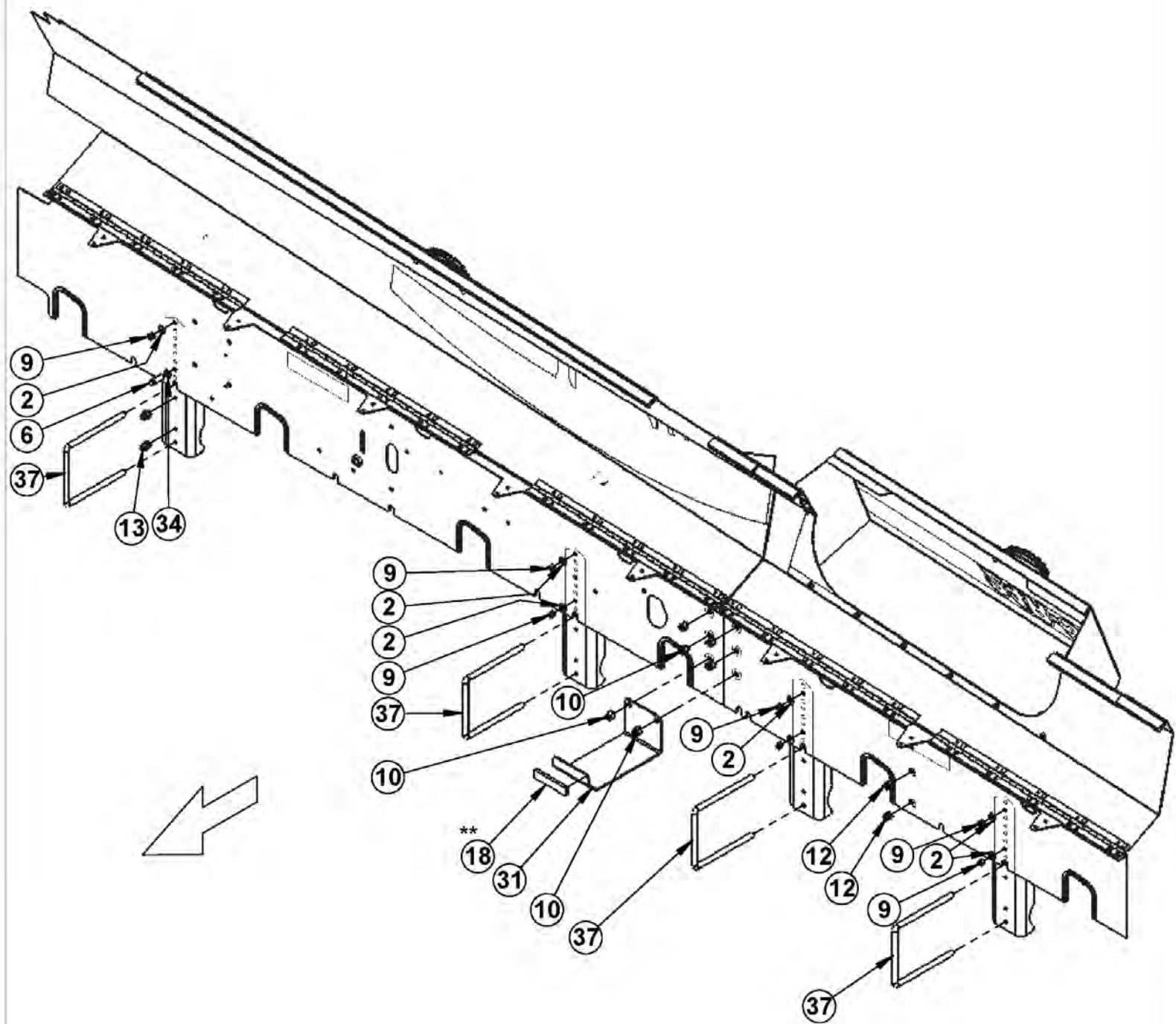
TA01389 LH Wing Shield Assy

ITEM	PART NUMBER	DESCRIPTION	QTY.	TORQUE (ft-lbs)
1	FW-SAE-0.250Y	Washer, SAE Flat 1/4-YZ	37	
2	FW-USS-0.313Y	Washer, Flat USS 5/16-YZ	25	
3	FW-USS-0.438Y	Washer, Flat-USS 7/16-YZ	6	
4	HB-0.250-20X0.50Y8	Bolt, Hex Hd 1/4-20x1/2-YZ8	62	
5	HB-0.375-16X1.00Y8	Bolt, Hex Hd 3/8-16x1-YZ8	2	
6	HB-0.375-16X1.50Y8	Bolt, Hex Hd 3/8-16x1-1/2-YZ8	13	
7	HB-0.500-13X1.50Y8	Bolt, Hex Hd 1/2-13x1-1/2 YZ8	6	
8	NLNUT-0.250-20Y8	Nut, Nylock 1/4-20-YZ8	70	
9	NLNUT-0.375-16Y8	Nut, Nylock 3/8-16 YZ8	18	
10	NLNUT-0.500-13Y8	Nut, Nylock 1/2-13 YZ8	6	
11	OHPMS-.250-20X1.00SS	Screw, Ovl Hd Mach 1/4-20x1 SS	8	
12	RN-0.313-18-.03-.15Y	Rivnut, 5/16-18 UNC .027-.150	2	
13	RN-0.375-16-.31-.44-Y	Rivnut, 3/8-16 UNC .31-.44 GR	2	
14	T0051467	Handle	2	
15	T0051481	Rubber Stop	4	
16	T0051552	Sticker-Tite Rubber Gasket Cut Length 75"	1	
17	T0051552	Sticker-Tite Rubber Gasket Cut Length 5-55/64"	1	
18	T0051552	Sticker-Tite Rubber Gasket Cut Length 6-9/32"	1	
19	T0051552	Sticker-Tite Rubber Gasket Cut Length 36-5/8"	1	
20	T0051552	Sticker-Tite Rubber Gasket Cut Length 6-7/16"	1	
21	T0051552	Sticker-Tite Rubber Gasket Cut Length 10-1/8"	1	
22	T0051552	Sticker-Tite Rubber Gasket Cut Length 4-11/16"	1	
23	T0051664	Decal, YieldTrac With Arch LH	1	
24	T0051729	Decal, Reflector, Yellow-2x9	2	
25	T0052395	U-Trim, 3/8x1/16 (per ft)	6	
26	T0052652	Decal, 24R-30 LH	1	
27	T0053396	Grommet, Rubber	1	
28	T0054551	Cover, LH Wing Fan	1	
29	T0054567	Shield, Front	1	
30	T0054568	Shield, LH Outer Wing	1	
31	T0054581	Bracket, Wing Shield	1	
32	T0054582	Shield Mount	4	
33	T0054583	Mount, Shield Bumper	4	
34	T0054986	Support, LH Inner Wing Shield	1	
35	T0054987	Support, LH Outer Wing Shield	1	
36	TA00851	Plane Hinge	5	
37	UB-0.38X7.0X7.0-SY2	3/8 X 7 X 7 U Bolt	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)



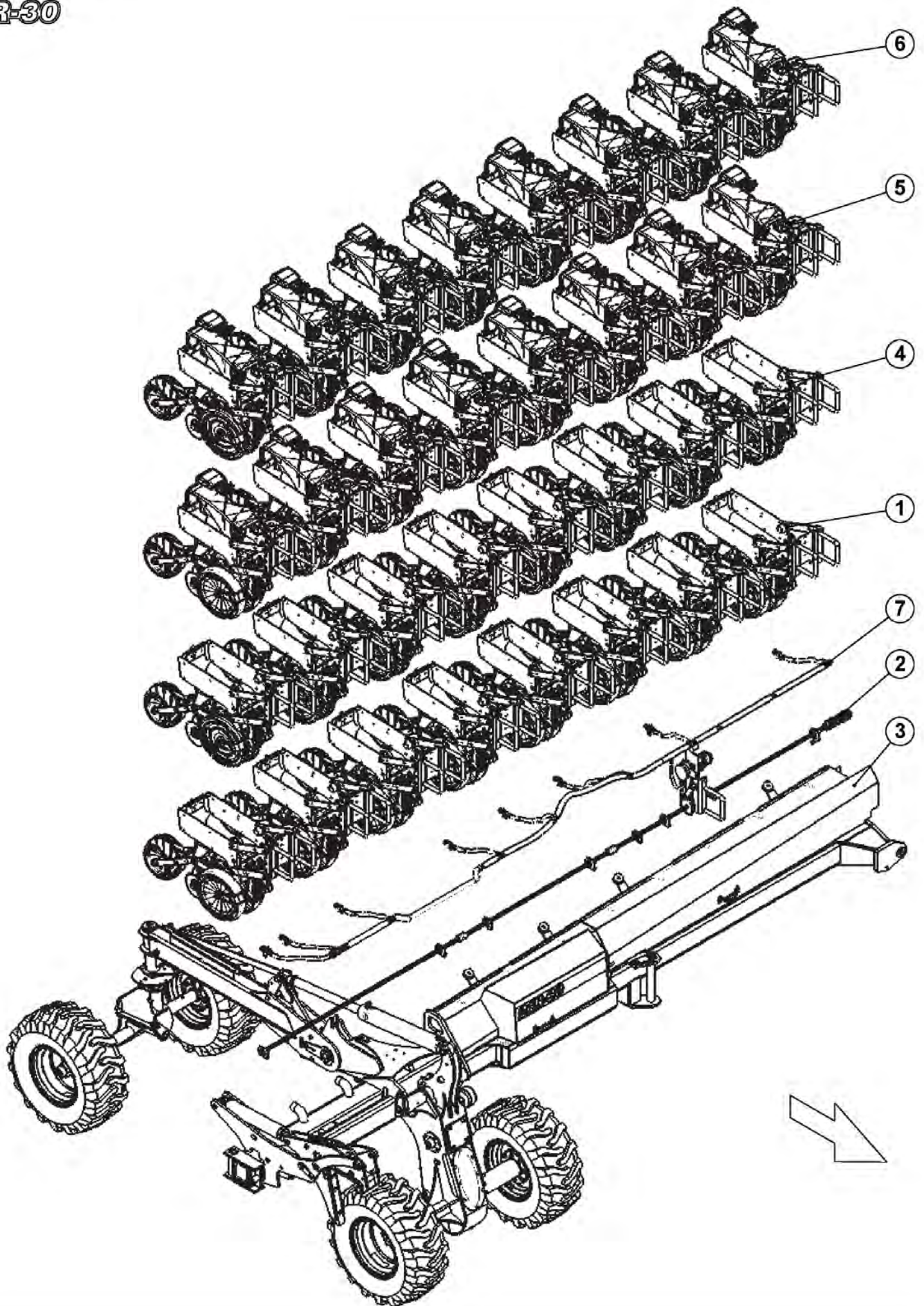


TA01389 LH Wing Shield Assy

ITEM	PART NUMBER	DESCRIPTION	QTY.	TORQUE (ft-lbs)
2	FW-USS-0.313Y	Washer, Flat USS 5/16-YZ	25	
6	HB-0.375-16X1.50Y8	Bolt, Hex Hd 3/8-16x1-1/2-YZ8	13	
9	NLNUT-0.375-16Y8	Nut, Nylock 3/8-16 YZ8	18	
10	NLNUT-0.500-13Y8	Nut, Nylock 1/2-13 YZ8	6	
12	RN-0.313-18-.03-.15Y	Rivnut, 5/16-18 UNC .027-.150	2	
13	RN-0.375-16-.31-.44-Y	Rivnut, 3/8-16 UNC .31-.44 GR	2	
18	T0051552	Sticker-Tite Rubber Gasket Cut Length 4-11/16"	1	
31	T0054581	Bracket, Wing Shield	1	
34	T0054986	Support, LH Inner Wing Shield	1	
35	T0054987	Support, LH Outer Wing Shield	1	
37	UB-0.38X7.0X7.0-SY2	3/8 X 7 X 7 U Bolt	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)

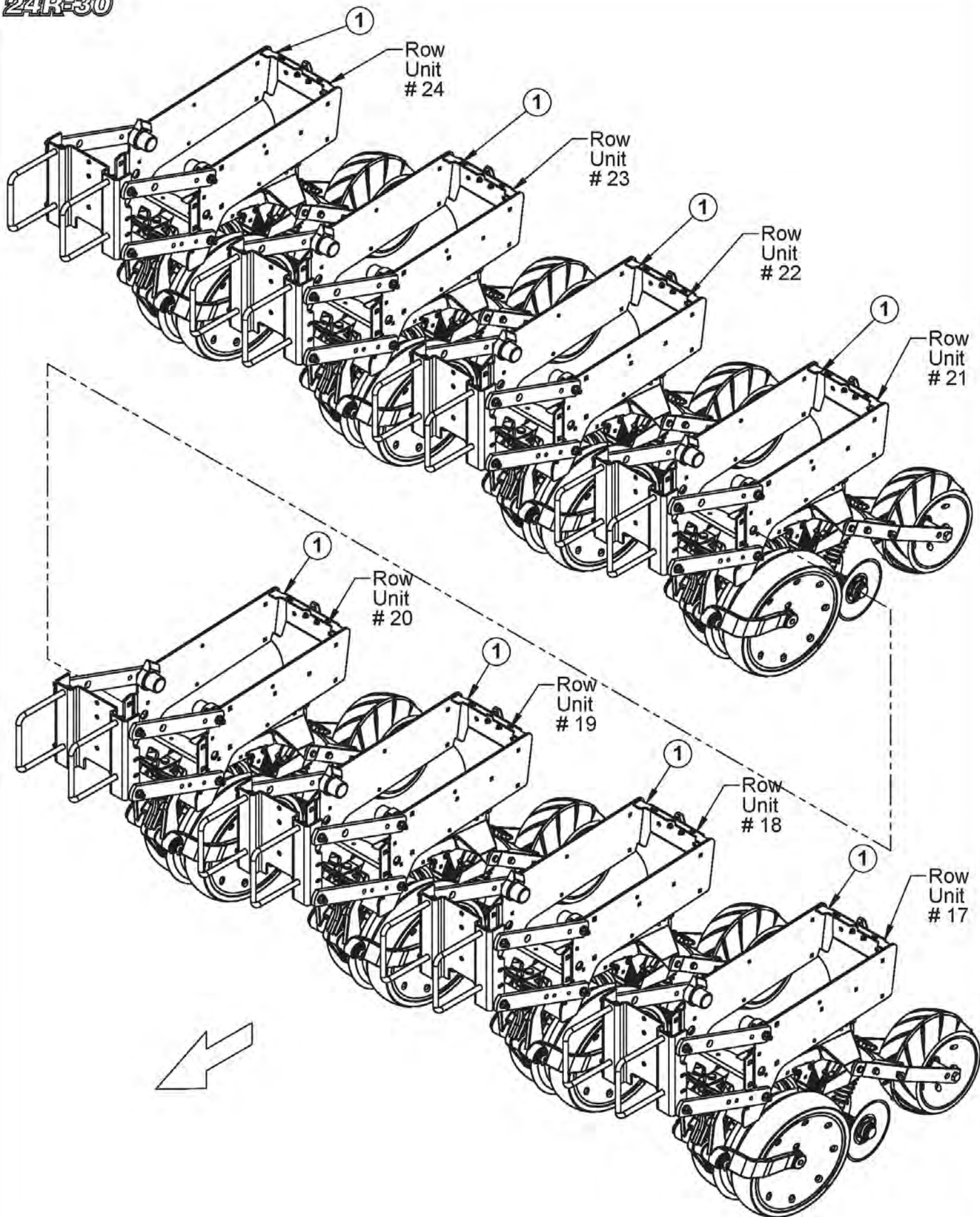


TA01269 Assy, 24R30 RH Wing

ITEM	PART NUMBER	DESCRIPTION	QTY.	TORQUE (ft-lbs)
1	TA01270	Assy, 24R30 RH Wing PR STD GW RUs	1	
2	TA01393	Assy, RH Wing Hyd. Seed Drive 24R30	1	
3	TA01524	Assy, 24R30 RH Wing Base	1	
4	TA01525	Assy, 24R30 RH Wing PR NGW RUs	1	
5	TA01526	Assy, 24R30 RH Wing ASM STD GW RUs	1	
6	TA01527	Assy, 24R30 RH Wing ASM NGW RUs	1	
7	TA01575	Assy, 24R30 RH Wing Fert Routing	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.

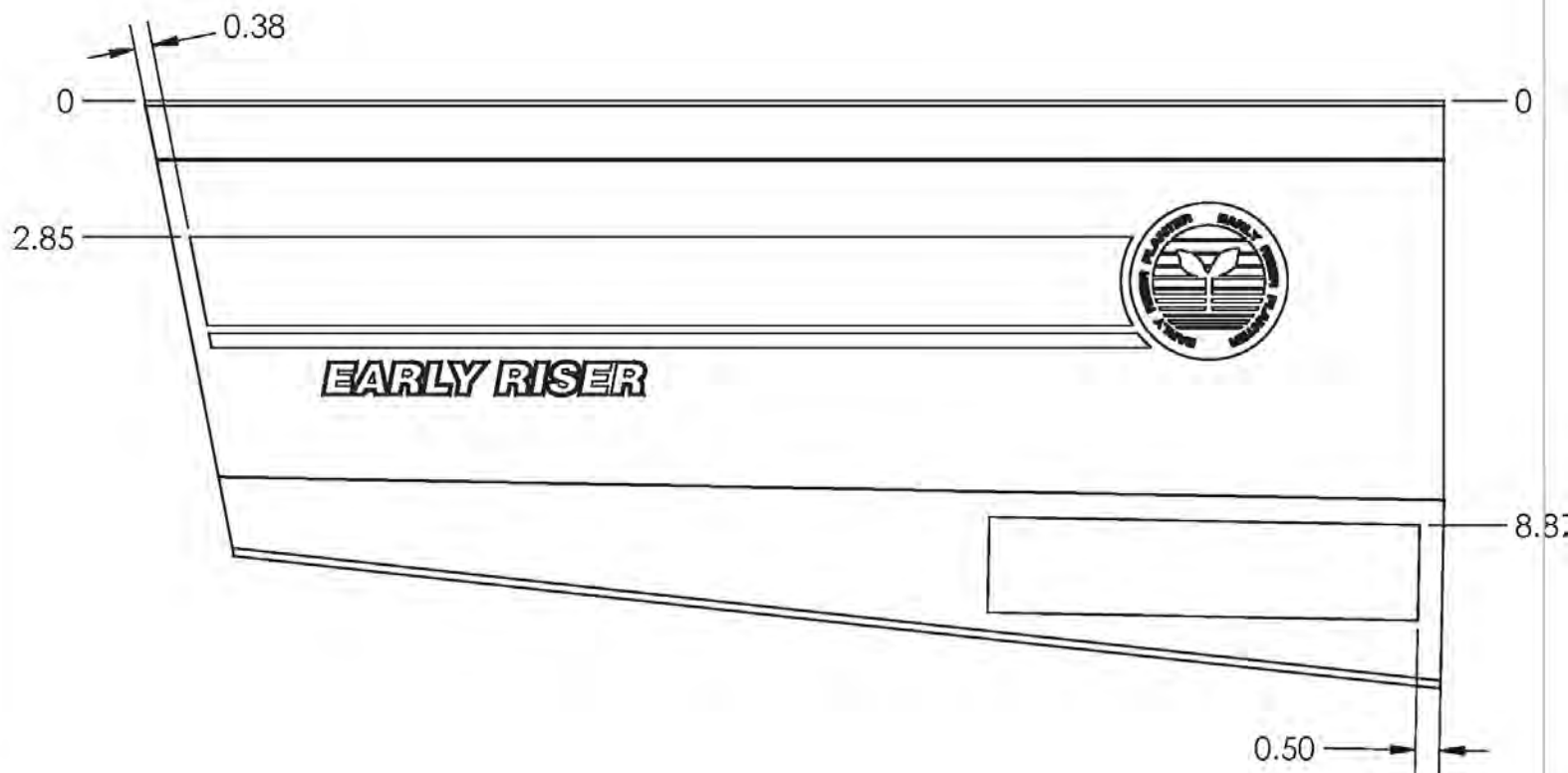
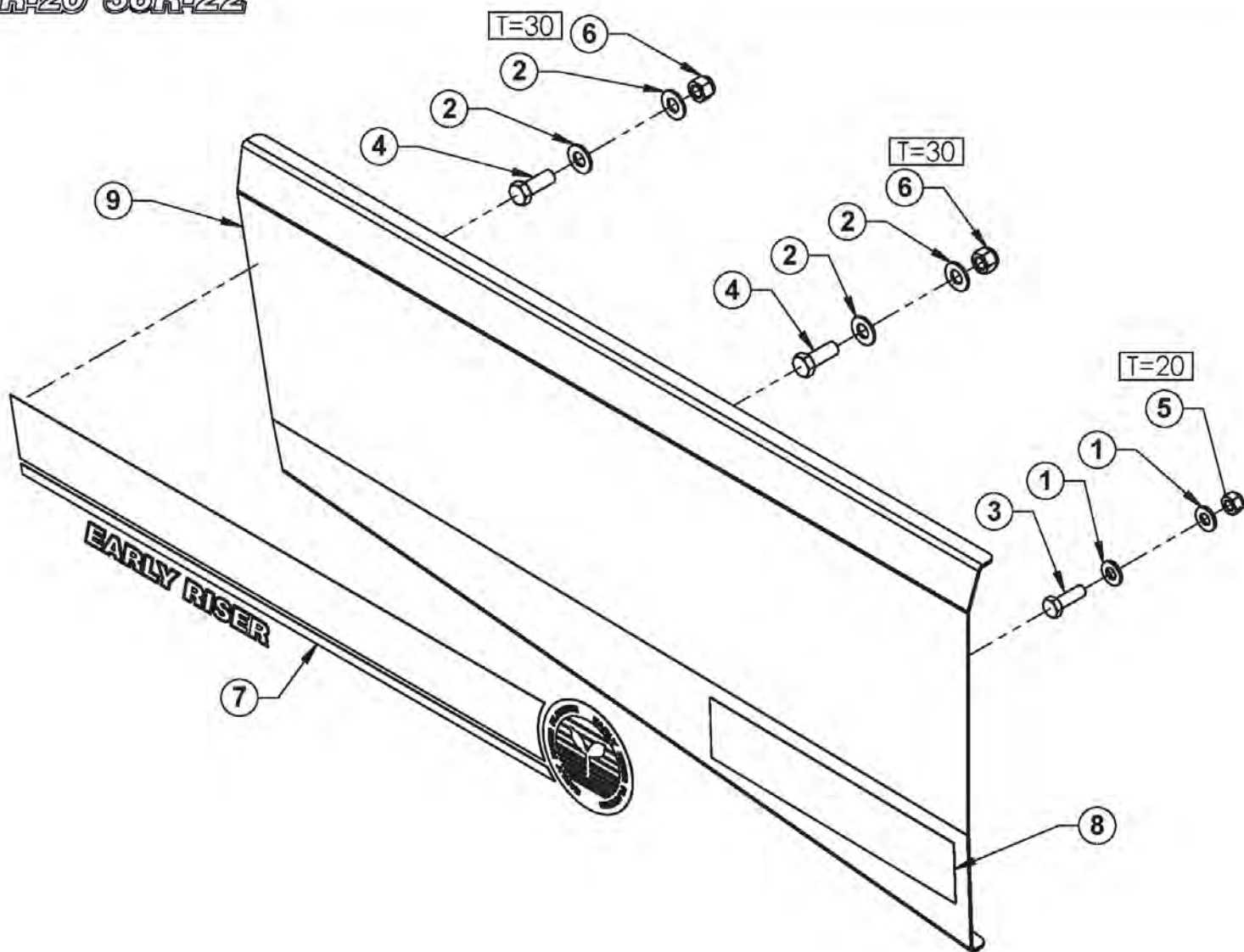


TA01270 Assy, 24R30 RH Wing PR STD GW RUs

ITEM	PART NUMBER	DESCRIPTION	QTY.	TORQUE (ft-lbs)
1	47876038	RH PR STD GW Row Unit	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.

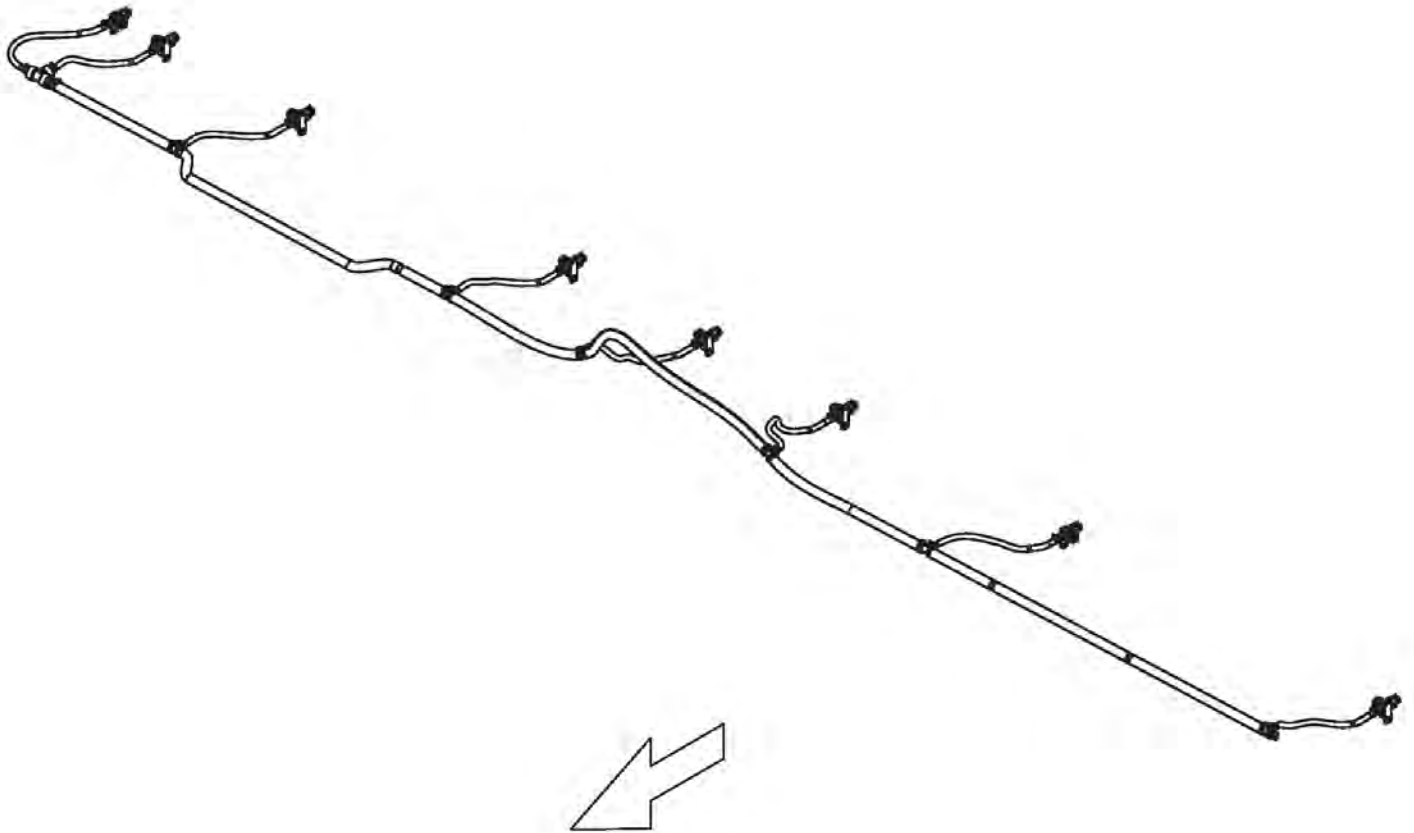


TA00676 Assy, Row Unit End Plate-RH

ITEM	PART NUMBER	DESCRIPTION	QTY	TORQUE (ft-lbs)
1	FW-SAE-0.313Y	Washer, SAE Flat 5/16" YZ	2	
2	FW-SAE-0.375Y	Washer, Flat SAE 3/8" YZ	4	
3	HB-0.313-18X1.00Y8	Bolt, Hex Hd 5/16-18x1-YZ8	1	
4	HB-0.375-16X1.00Y8	Bolt, Hex Hd 3/8-16x1-YZ8	2	
5	NLNUT-0.313-18Y8	Nut, Nylock 5/16"-18-YZ8	1	20
6	NLNUT-0.375-16Y8	Nut, Nylock 3/8-16 YZ8	3	30
7	T0051542	Decal, Early Riser Planter-RH	1	
8	T0051729	Decal, Reflector, Yellow-2x9	1	
9	TW000672	Wldmt, End Shield Row Unit-RH	1	

Note:

T = Torque Expressed in ft-lbs



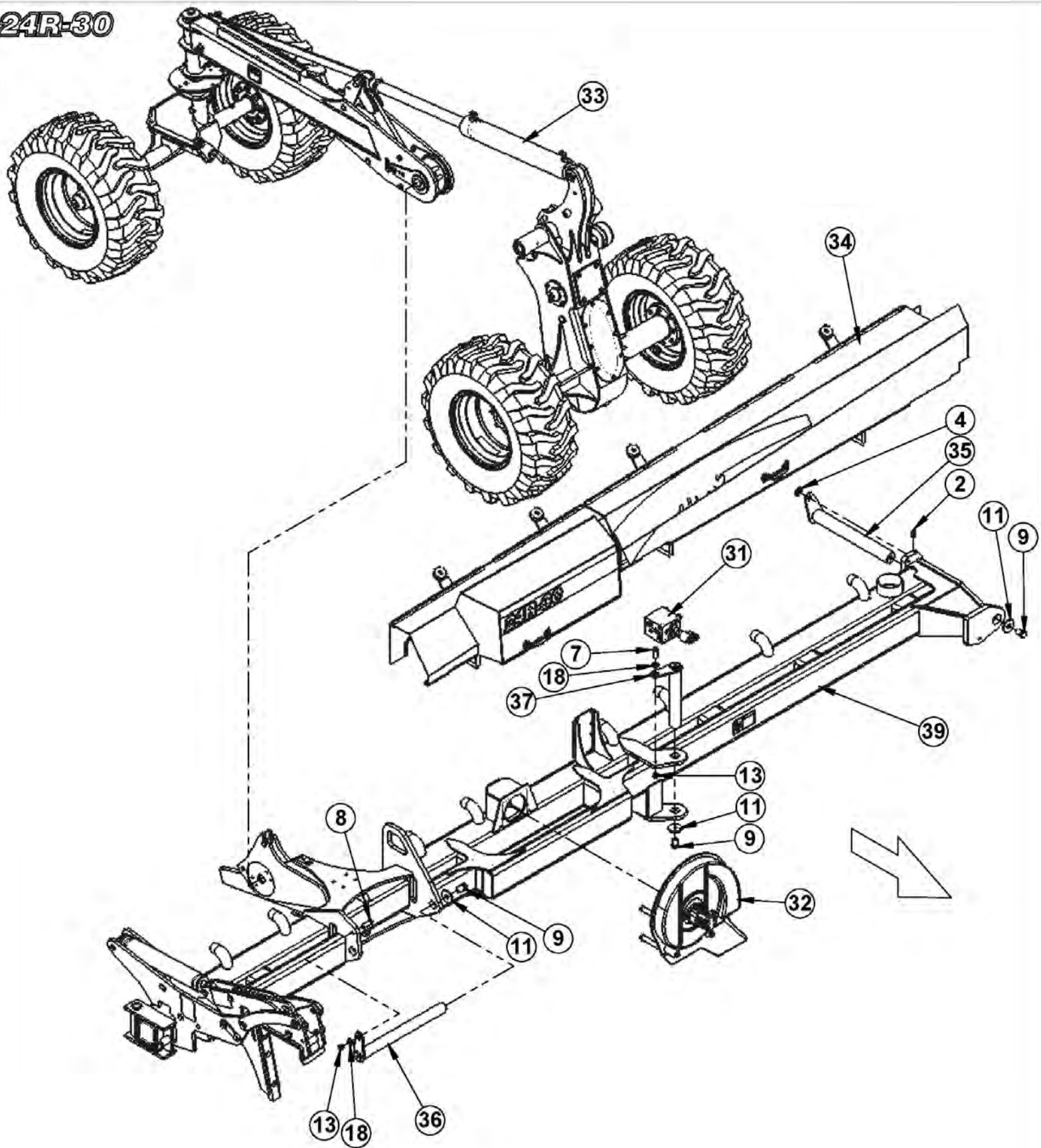
Use P/N T0055476 Schematic,Fertilizer Routing RH Wing 24R30

TA01575 Assy, 24R30 RH Wing Fert Routing

ITEM	PART NUMBER	DESCRIPTION	QTY.	TORQUE (ft-lbs)
1	HCLMP-SAE-06SS	Hose Clamp, SAE #6-SS	16	
2	HCLMP-SAE-12SS	Hose Clamp, SAE #12-SS	13	
3	T0051533	Tee Jet Clip RH	6	
4	T0051651	TeeJet Clip LH	2	
5	T0051652	Plate Check Valve Mount	8	
6	T0052308	Barbed Tee 3/4" x 3/4" x 3/8"	6	
7	TA00674	Tee Jet Valve Assy	1	
8	TA00674	Tee Jet Valve Assy	1	
9	TA00674	Tee Jet Valve Assy	1	
10	TA00674	Tee Jet Valve Assy	1	
11	TA00674	Tee Jet Valve Assy	1	
12	TA00674	Tee Jet Valve Assy	1	
13	TA00674	Tee Jet Valve Assy	1	
14	TA00674	Tee Jet Valve Assy	1	
15	TA01051	Assy, Mnfid End	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.

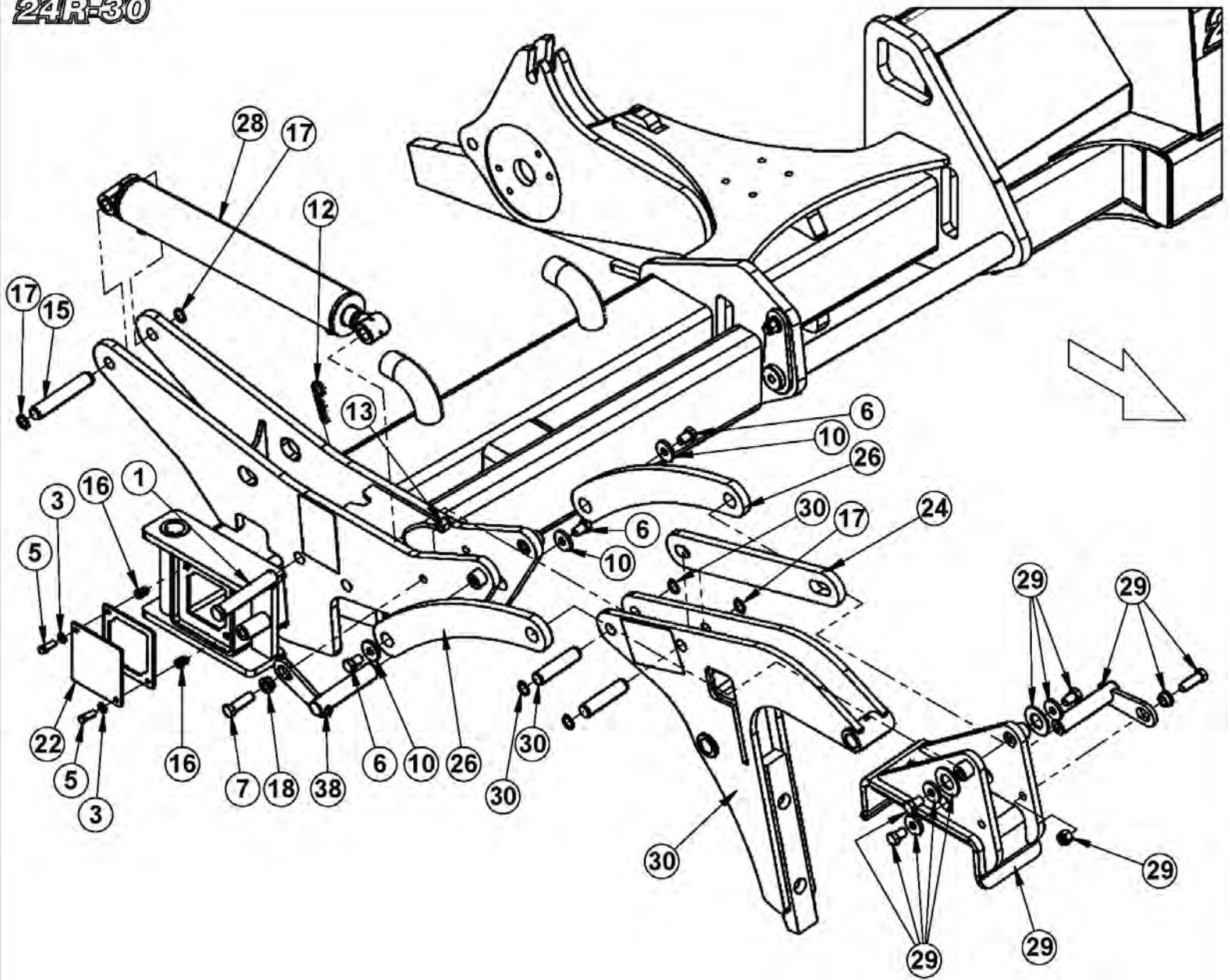


TA01524 Assy, 24R30 RH Wing Base (Sheet 1 of 3)

ITEM	PART NUMBER	DESCRIPTION	QTY.	TORQUE (ft-lbs)
1	CLPIN-1.000X6.00Y	Clevis Pin, Ø1" X 6" YZ	1	
2	CTPIN-0.250X2.00	PIN, COTTER-1/4 X 2	1	
3	FW-SAE-0.375Y	Washer, Flat SAE 3/8" YZ	2	
4	FW-SAE-1.000Y	Washer, Flat SAE-1.0-YZ	1	
5	HB-0.375-16X1.25Y8	Bolt, Hex Hd 3/8-16x1-1/4 YZ8	2	
6	HB-0.625-11X1.00Y8	Bolt, Hex Hd 5/8-11x1 YZ8	3	
7	HB-0.625-11X2.25Y8	Bolt, Hex Head-5/8-11x2.25-YZ8	2	
8	HB-0.625-11X2.50Y8	Bolt, Hex Head-5/8-11x2.5-YZ8	1	
9	HB-0.875-9X1.75Y8	Bolt, Hex Hd 7/8-9x1-3/4-YZ8	3	
10	HDWSH-0.64X1.75Y	HD Washer 0.64 x 1.75	3	
11	HDWSH-0.89X3.00Y	HD Washer 0.89 x 3.00	3	
12	HPINCLIP-1.000Y	Hair Pin Clip-Ø1.0000" YZ	1	
13	NLNUT-0.625-11Y8	Nut, Nylock-5/8-11-YZ8	3	
14	PIN-1.000X4.13Y	PIN-1.000X4.13Y	1	
15	PIN-1.000X5.75Y	Pin-1.0000x5.750-YZ	1	
16	RN-0.375-16-.15-.31Y	Rivnut, 3/8-16 .150-.312 YZ	2	
17	SRING-EXT-HD-1.00Y	SRING-EXT-HD-1.00Y	4	
18	T0050854	Anti Rotation Insert	3	
19	T0051588	Decal, Warning - Crush Hazard	1	
20	T0051729	Decal, Reflector, Yellow-2x9	2	
21	T0051737	Decal, Warn CrshHaz Serv WngWhl	1	
22	T0052124	Clean Out Cover	1	
23	T0052125	Seal, Clean Out Cover	1	
24	T0052718	Linkage, Transport Lock	1	
25	T0052802	Decal, Warn-Crush Haz Lift Cyl	1	
26	T0053164	Linkage, Wing Lift	2	
27	T0053715	Decal, Warn Crush Haz Crdl Lift	1	
28	TA00963	Cylinder, Hyd 3.00X20.00	1	
29	TA00979	Assy, Wing Engagement	1	
30	TA00980	Wing Lift Assy	1	
31	TA01244	Assy, RH Fan&Meter Cntl Valve	1	
32	TA01245	Assy, Fan	1	
33	TA01376	Wing Wheel Assy	1	
34	TA01390	Assy, 24R30 RH Wing Shield	1	
35	TW000611	Pin Weldment	1	
36	TW000717	Pin Weldment	1	
37	TW000794	Pin Weldment	1	
38	TW000906	Pin Weldment	1	
39	TW001153	Wldmt, 24R30 RH Wing	1	

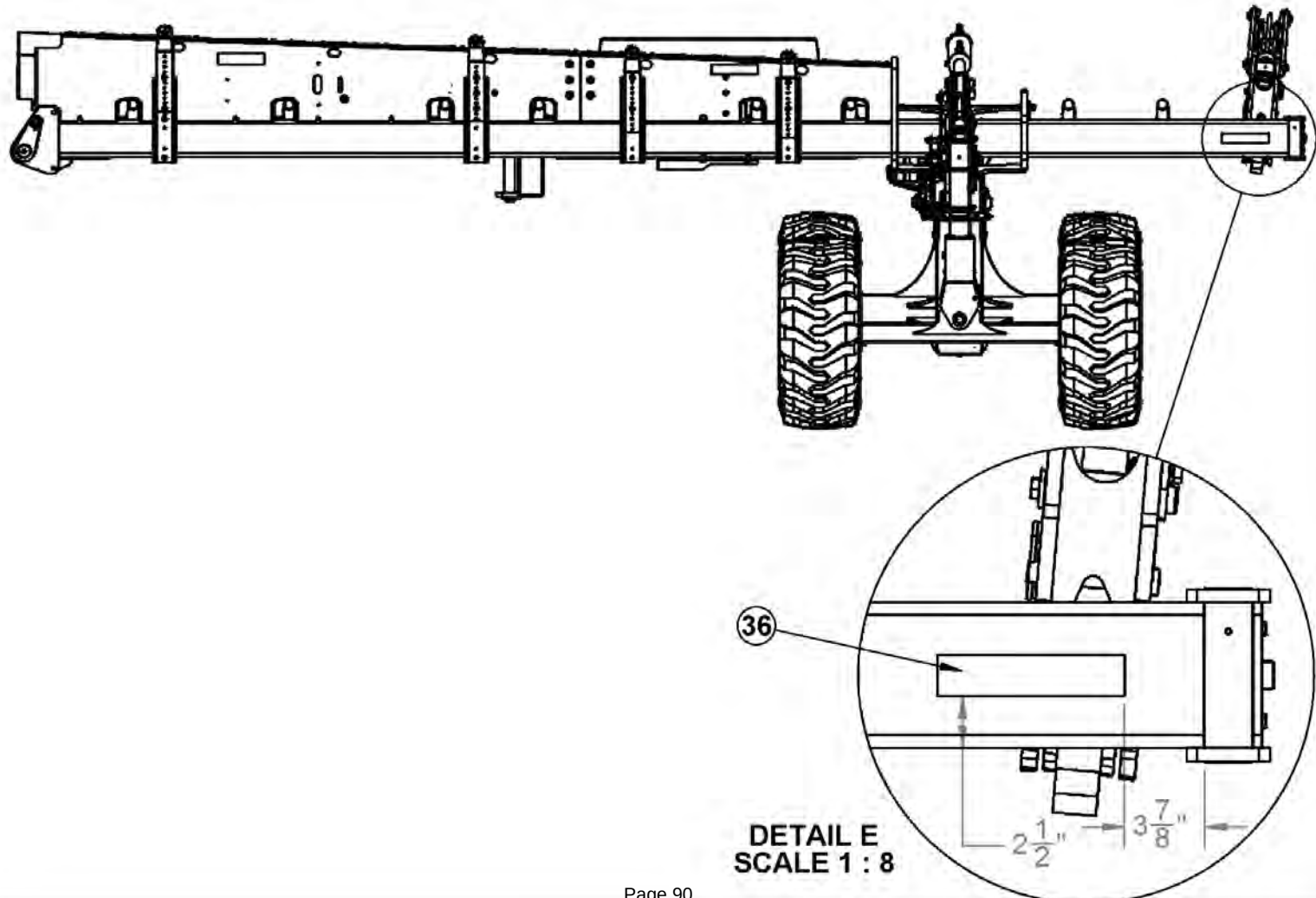
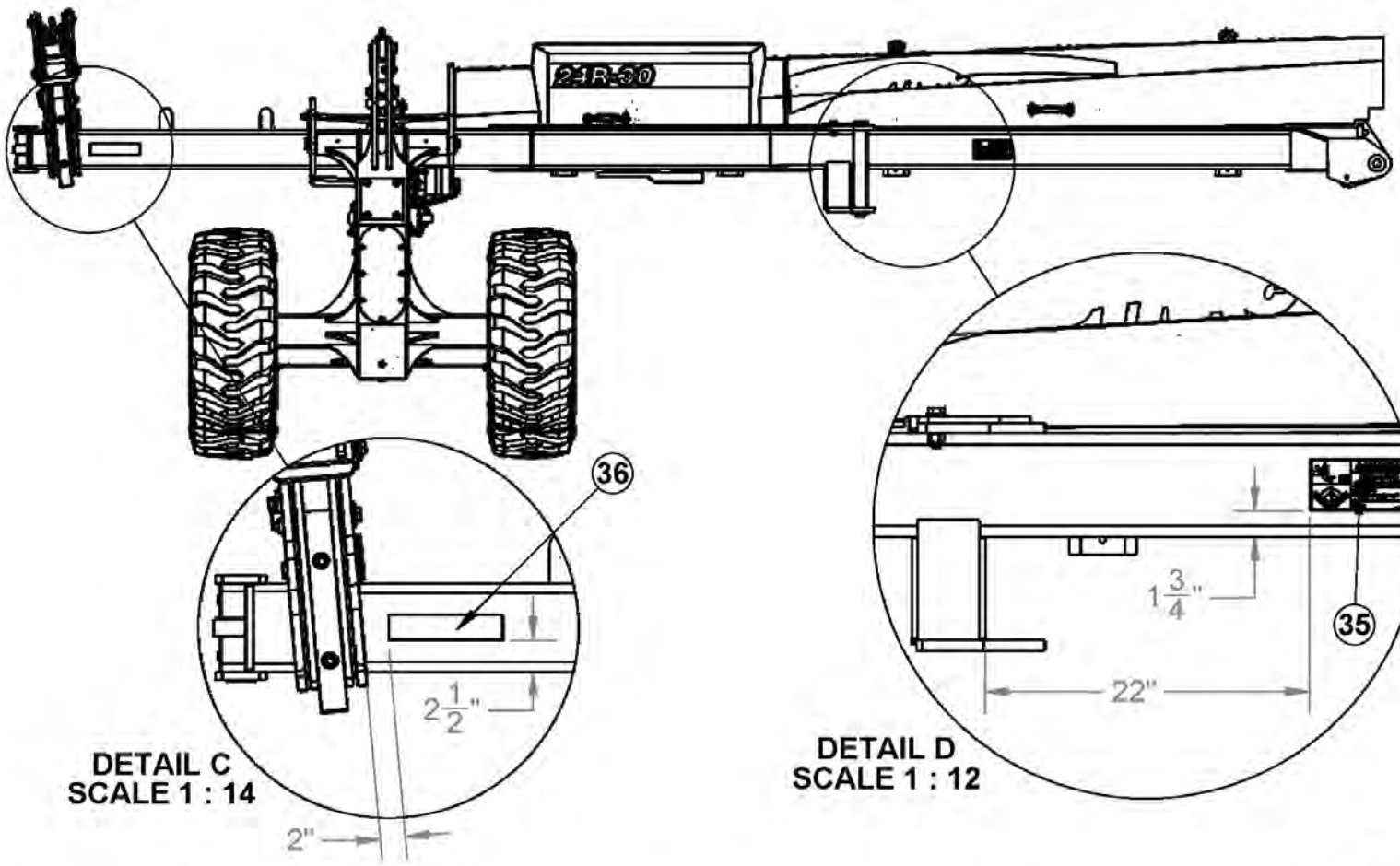
Note:

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.



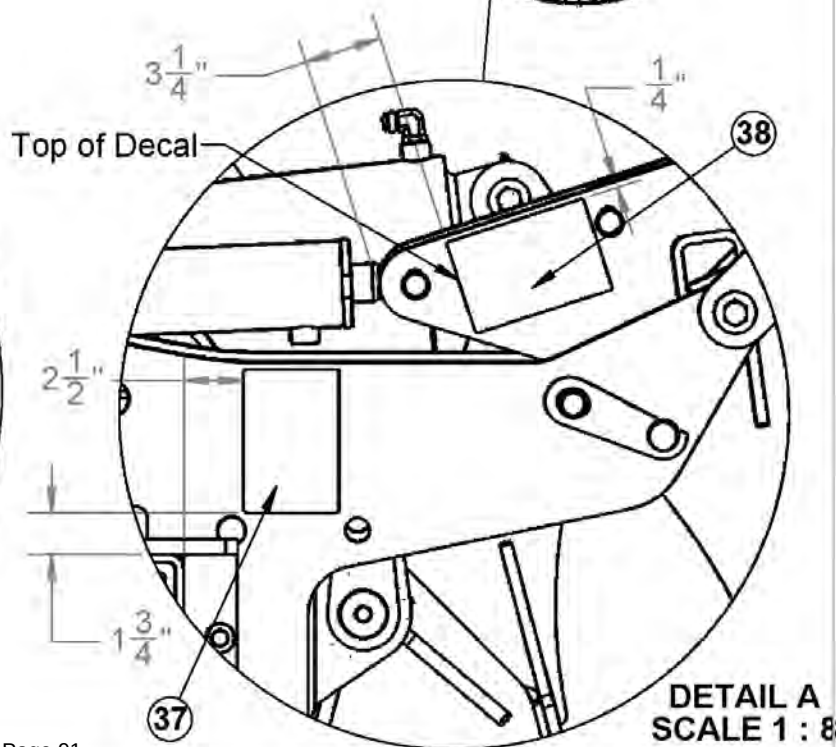
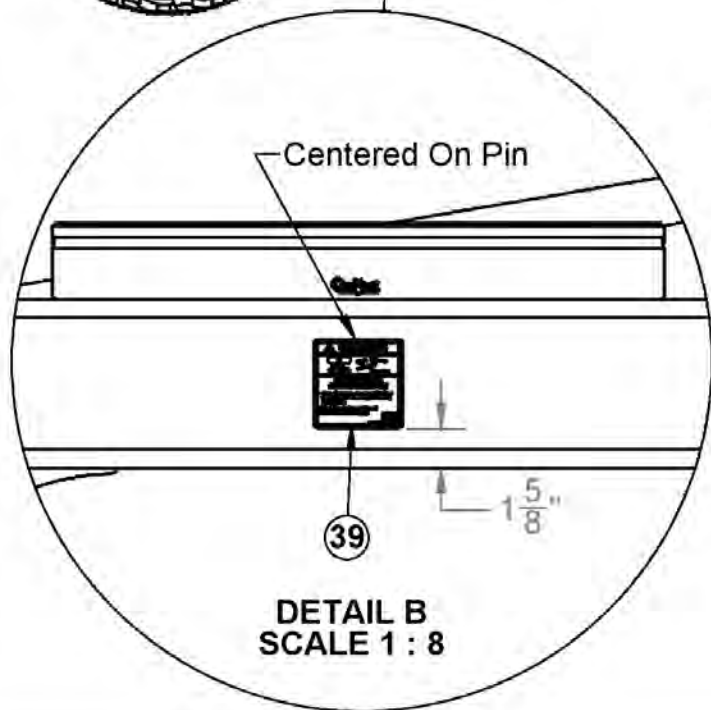
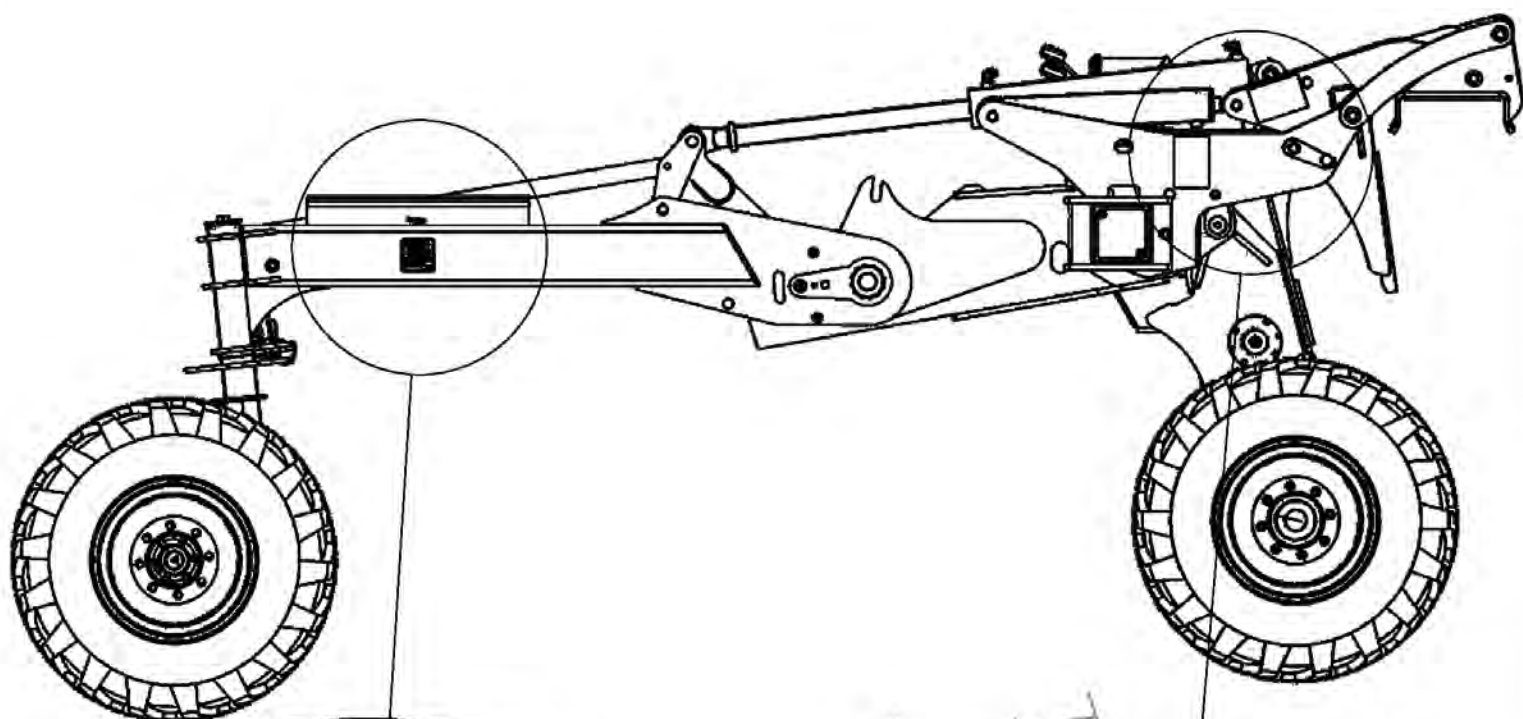
TA01524 Assy, 24R30 RH Wing Base (Sheet 2 of 3)

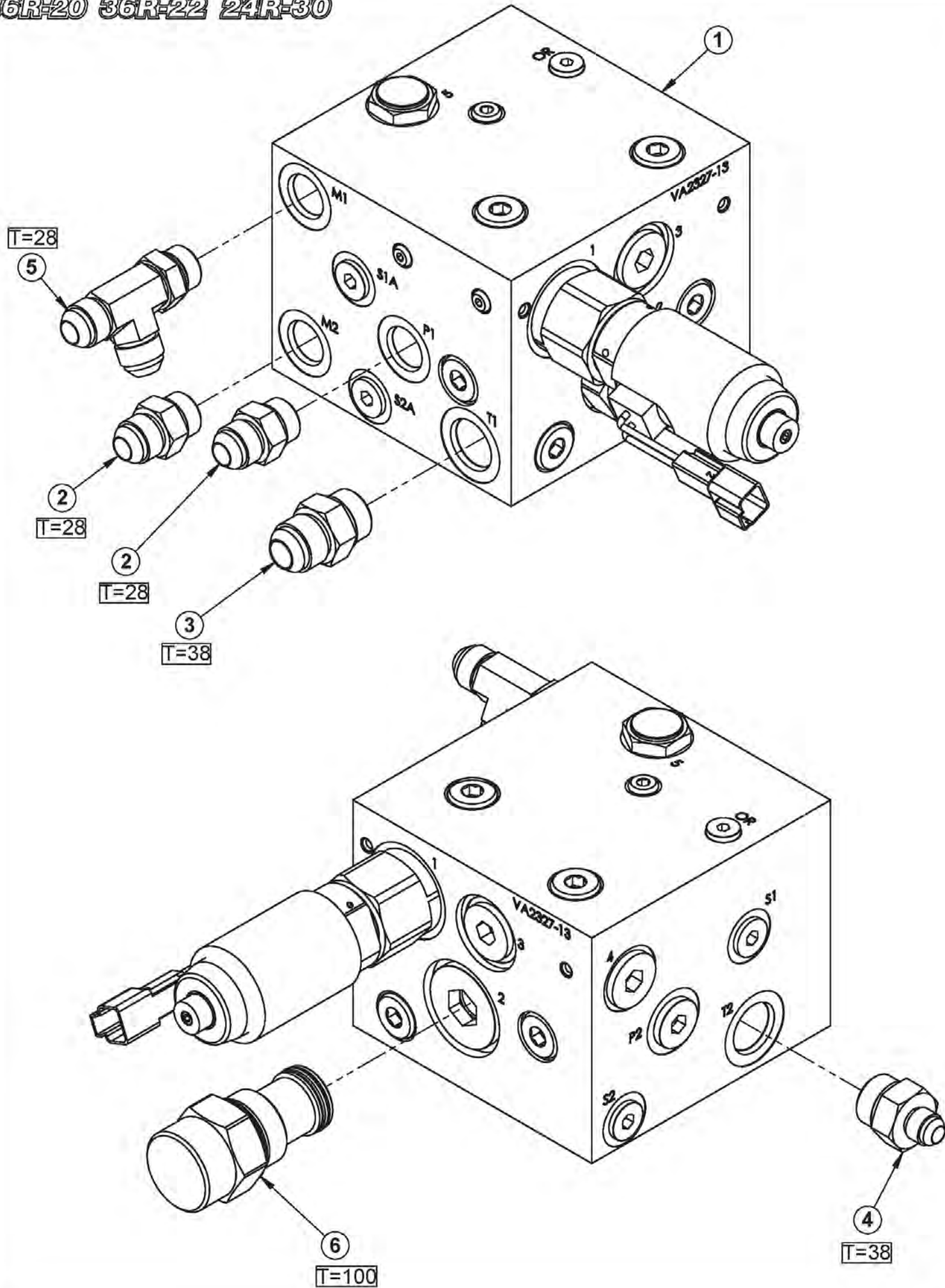
ITEM	PART NUMBER	DESCRIPTION	QTY.	TORQUE (ft-lbs)
1	CLPIN-1.000X6.00Y	Clevis Pin, Ø1" X 6" YZ	1	
3	FW-SAE-0.375Y	Washer, Flat SAE 3/8" YZ	2	
5	HB-0.375-16X1.25Y8	Bolt, Hex Hd 3/8-16x1-1/4 YZ8	2	
6	HB-0.625-11X1.00Y8	Bolt, Hex Hd 5/8-11x1 YZ8	3	
7	HB-0.625-11X2.25Y8	Bolt, Hex Head-5/8-11x2.25-YZ8	2	
10	HDWSH-0.64X1.75Y	HD Washer 0.64 x 1.75	3	
12	HPINCLIP-1.000Y	Hair Pin Clip-Ø1.0000" YZ	1	
13	NLNUT-0.625-11Y8	Nut, Nylock-5/8-11-YZ8	3	
15	PIN-1.000X5.75Y	Pin-1.0000x5.750-YZ	1	
16	RN-0.375-16-.15-.31Y	Rivnut, 3/8-16 .150-.312 YZ	2	
17	SRING-EXT-HD-1.00Y	SRING-EXT-HD-1.00Y	4	
18	T0050854	Anti Rotation Insert	3	
22	T0052124	Clean Out Cover	1	
24	T0052718	Linkage, Transport Lock	1	
26	T0053164	Linkage, Wing Lift	2	
28	TA00963	Cylinder, Hyd 3.00X20.00	1	
29	TA00979	Assy, Wing Engagement	1	
30	TA00980	Wing Lift Assy	1	
38	TW000906	Pin Weldment	1	



TA01524 Assy, 24R30 RH Wing Base (Sheet 3 of 3)

ITEM	PART NUMBER	DESCRIPTION	QTY.	TORQUE (ft-lbs)
35	T0051588	Decal, Warning - Crush Hazard	1	
36	T0051729	Decal, Reflector, Yellow-2x9	2	
37	T0053715	Decal, Warn Crush Haz Crdl Lift	1	
38	T0052802	Decal, Warn-Crush Haz Lift Cyl	1	
39	T0051737	Decal, Warn CrshHaz Serv WngWhl	1	



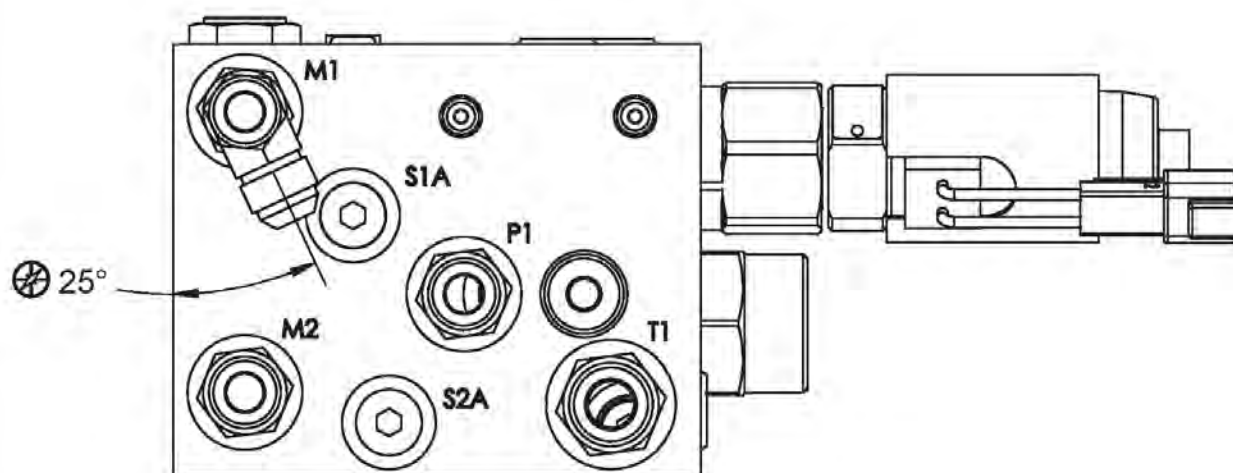


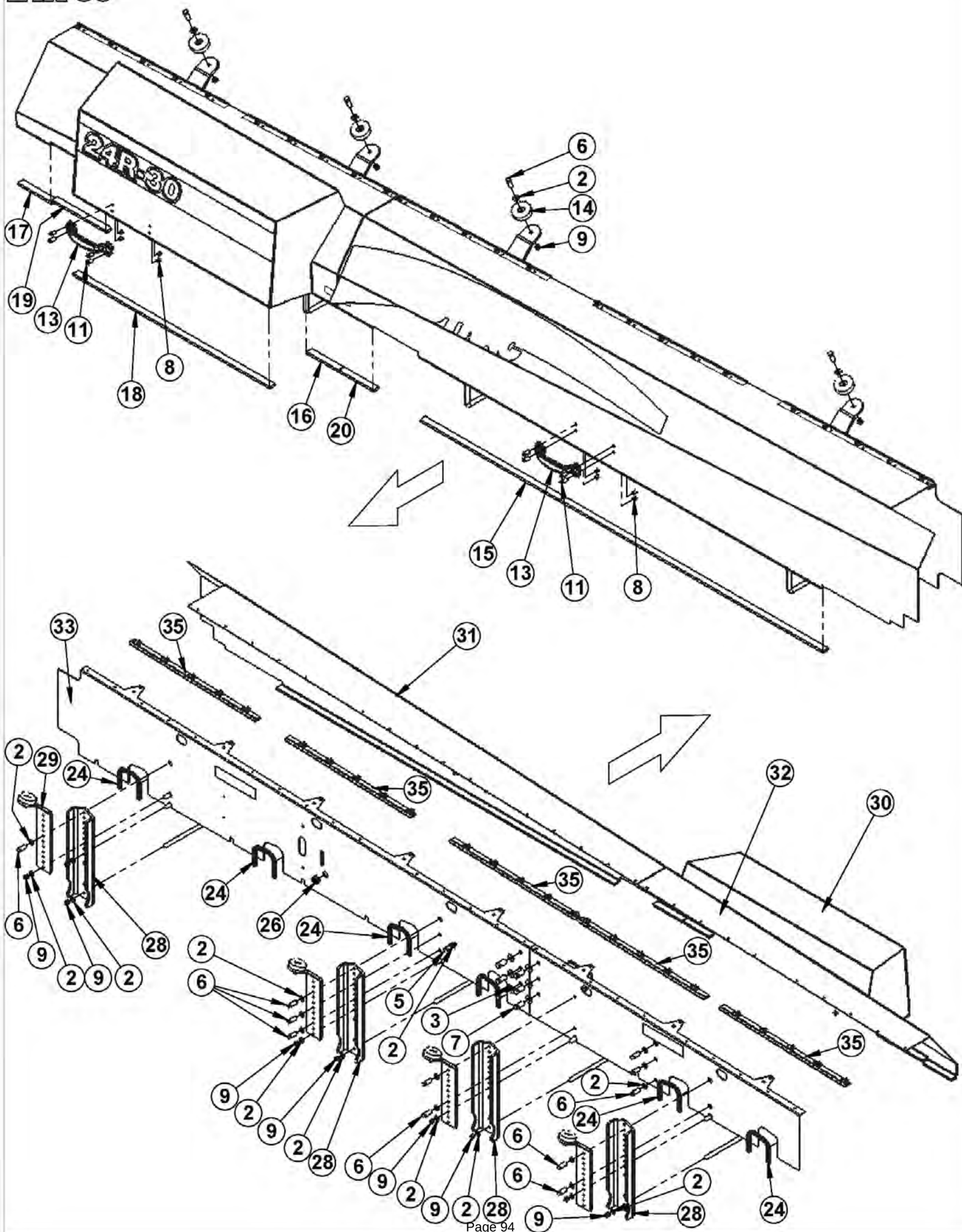
TA01244 Assy, RH Fan&Meter Cntl Valve

ITEM	PART NUMBER	DESCRIPTION	QTY.	TORQUE (ft-lbs)
1	T0054381	Assy, Fan Ctrl Valve	1	
2	AD-08MJ-08MB	ADAPTER 08MJ-08MB	2	28
3	AD-10MJ-10MB	ADAPTER 10MJ-10MB	1	38
4	AD-06MJ-10MB	ADAPTER 06MJ-10MB	1	38
5	AD-08MJ-08MB-08MJ	ADAPTER 08MJ-08MB-08MJ TEE	1	28
6	T0055197	Cartridge, Flow Control 9.0 GPM	1	100

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.  Part Orientation



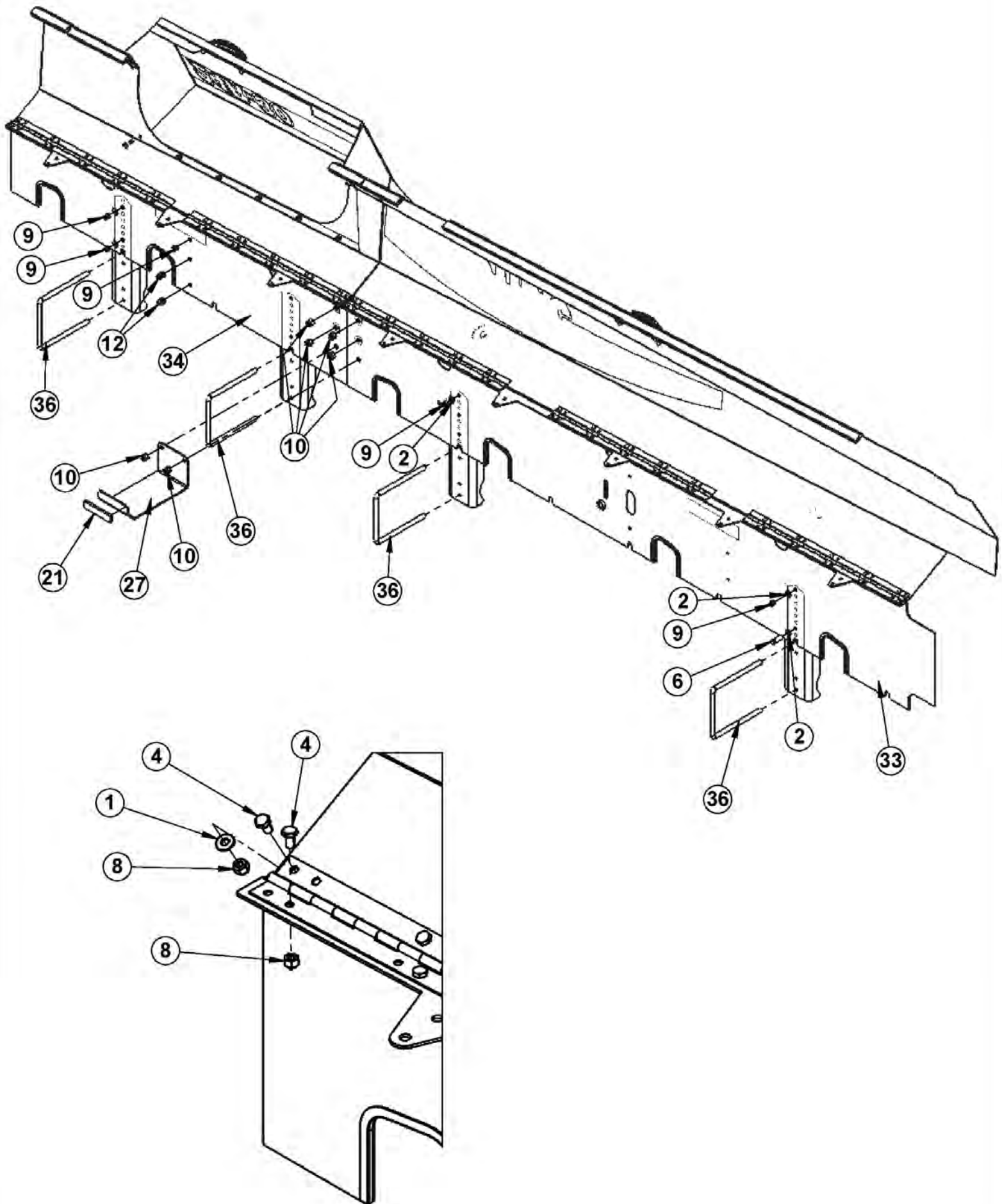


TA01390 Assy, 24R30 RH Wing Shield

ITEM	PART NUMBER	DESCRIPTION	QTY.	TORQUE (ft-lbs)
1	FW-SAE-0.250Y	Washer, SAE Flat 1/4-YZ	37	
2	FW-USS-0.313Y	Washer, Flat USS 5/16-YZ	31	
3	FW-USS-0.438Y	Washer, Flat-USS 7/16-YZ	6	
4	HB-0.250-20X0.50Y8	Bolt, Hex Hd 1/4-20x1/2-YZ8	62	
5	HB-0.375-16X1.00Y8	Bolt, Hex Hd 3/8-16x1-YZ8	1	
6	HB-0.375-16X1.50Y8	Bolt, Hex Hd 3/8-16x1-1/2-YZ8	16	
7	HB-0.500-13X1.50Y8	Bolt, Hex Hd 1/2-13x1-1/2 YZ8	6	
8	NLNUT-0.250-20Y8	Nut, Nylock 1/4-20-YZ8	67	
9	NLNUT-0.375-16Y8	Nut, Nylock 3/8-16 YZ8	18	
10	NLNUT-0.500-13Y8	Nut, Nylock 1/2-13 YZ8	6	
11	OHPMS-.250-20X1.00SS	Screw, Ovl Hd Mach 1/4-20x1 SS	8	
12	RN-0.375-16-.15-.31Y	Rivnut, 3/8-16 .150-.312 YZ	2	
13	T0051467	Handle	2	
14	T0051481	Rubber Stop	4	
15	T0051552	Sticker-Tite Rubber Gasket Cut Length 75"	1	
16	T0051552	Sticker-Tite Rubber Gasket Cut Length 5-55/64"	1	
17	T0051552	Sticker-Tite Rubber Gasket Cut Length 6-9/32"	1	
18	T0051552	Sticker-Tite Rubber Gasket Cut Length 36-5/8"	1	
19	T0051552	Sticker-Tite Rubber Gasket Cut Length 10-1/8"	1	
20	T0051552	Sticker-Tite Rubber Gasket Cut Length 6-7/16"	1	
21	T0051552	Sticker-Tite Rubber Gasket Cut Length 4-11/16"	1	
22	T0051663	Decal, YieldTrac With Arch RH	1	
23	T0051729	Decal, Reflector, Yellow-2x9	2	
24	T0052395	U-Trim, 3/8x1/16 (per ft)	6	
25	T0052653	Decal, 24R-30 RH	1	
26	T0053396	Grommet, Rubber	1	
27	T0054581	Bracket, Wing Shield	1	
28	T0054582	Shield Mount	4	
29	T0054583	Mount, Shield Bumper	4	
30	T0054586	Cover, RH Fan	1	
31	T0054976	Shield, 60' RH Inner Wing	1	
32	T0054977	Shield, 60' RH Outer Wing	1	
33	T0054988	Support, RH Inner Wing Shield	1	
34	T0054989	Support, RH Outer Wing Shield	1	
35	TA00851	Piano Hinge	5	
36	UB-0.38X7.0X7.0-SY2	3/8 X 7 X 7 U Bolt	4	

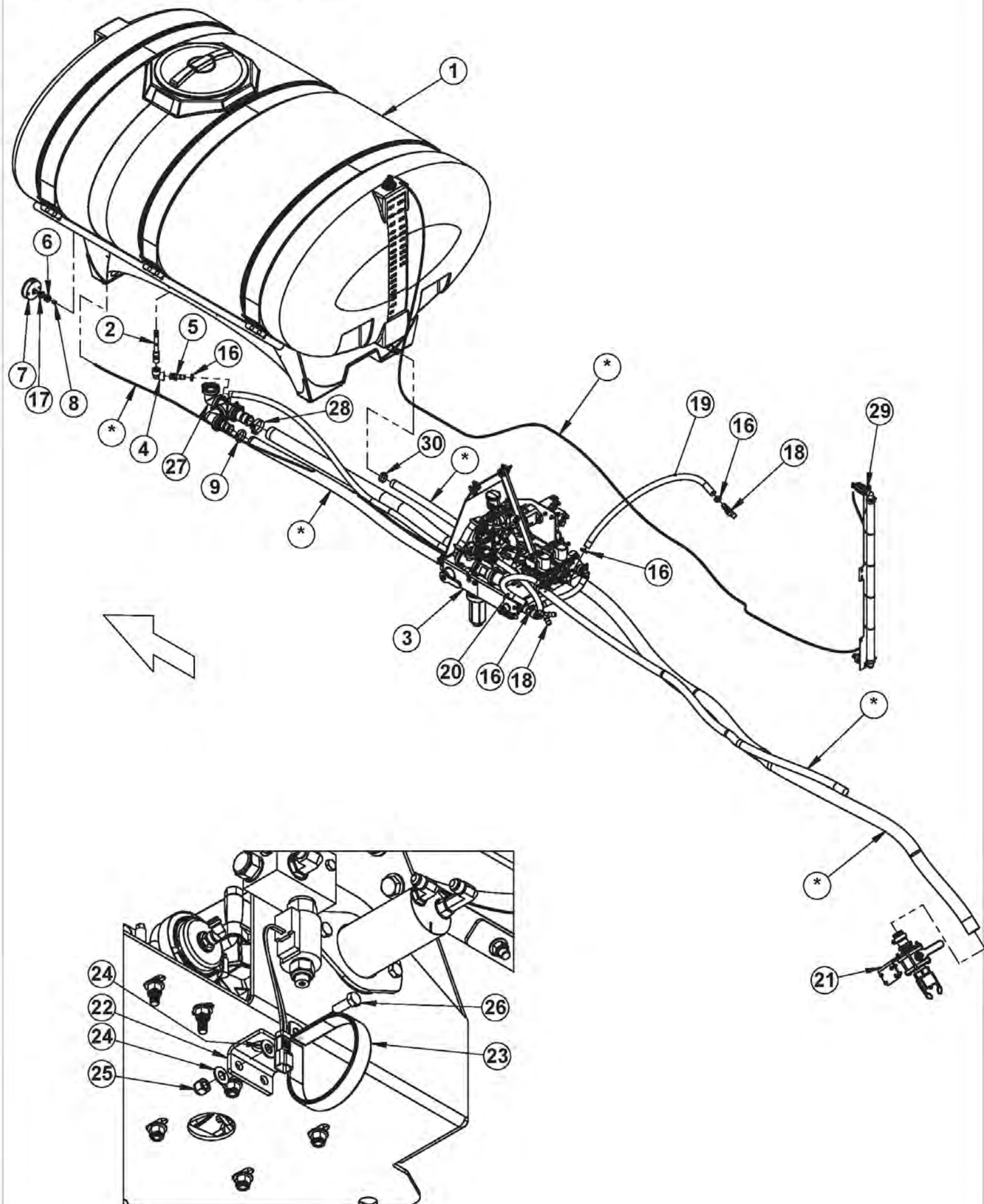
Note:

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.



TA01390 Assy, 24R30 RH Wing Shield

ITEM	PART NUMBER	DESCRIPTION	QTY.	TORQUE (ft-lbs)
1	FW-SAE-0.250Y	Washer, SAE Flat 1/4-YZ	37	
2	FW-USS-0.313Y	Washer, Flat USS 5/16-YZ	31	
4	HB-0.250-20X0.50Y8	Bolt, Hex Hd 1/4-20x1/2-YZ8	62	
6	HB-0.375-16X1.50Y8	Bolt, Hex Hd 3/8-16x1-1/2-YZ8	16	
8	NLNUT-0.250-20Y8	Nut, Nylock 1/4-20-YZ8	67	
9	NLNUT-0.375-16Y8	Nut, Nylock 3/8-16 YZ8	18	
10	NLNUT-0.500-13Y8	Nut, Nylock 1/2-13 YZ8	6	
12	RN-0.375-16-.15-.31Y	Rivnut, 3/8-16 .150-.312 YZ	2	
21	T0051552	Sticker-Tite Rubber Gasket Cut Length 4-11/16"	1	
27	T0054581	Bracket, Wing Shield	1	
33	T0054988	Support, RH Inner Wing Shield	1	
34	T0054989	Support, RH Outer Wing Shield	1	
36	UB-0.38X7.0X7.0-SY2	3/8 X 7 X 7 U Bolt	4	

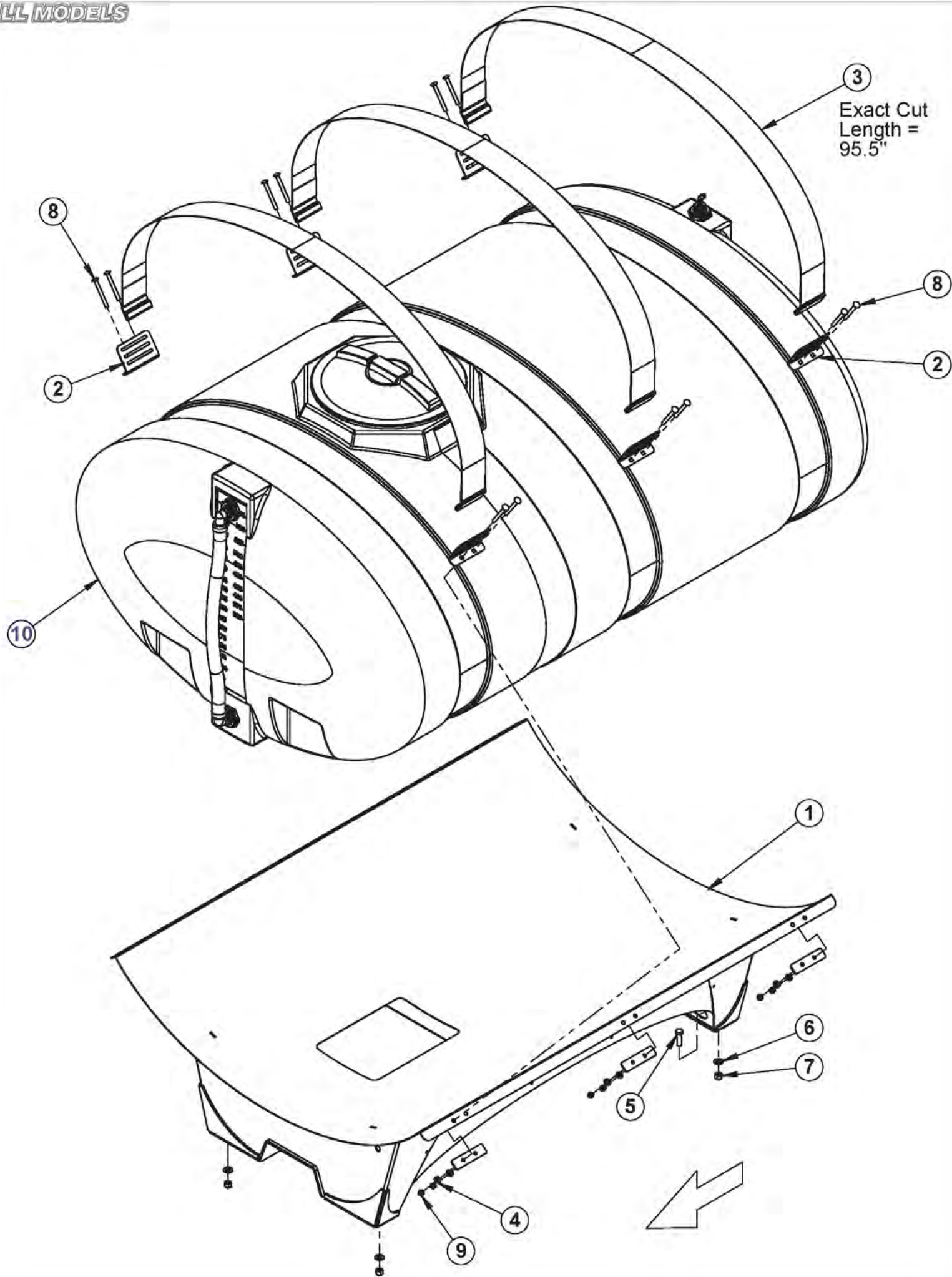


TA01519 Assy, Liquid Fertilizer System 500E

ITEM	PART NUMBER	DESCRIPTION	QTY.	TORQUE (ft-lbs)
1	TA01517	Assy, 500 Gal Tank and Base	1	
2	T0051637	Agitator, Tank	1	
3	TA01025	Assy, Fertilizer Pump Mount	1	
4	T0052428	Elbow, 3/4FPT X 3/4FPT	1	
5	T0051512	3/4" MPT x 3/4" HB	1	
6	T0052431	1/4" NPT Bulkhead Coupling	1	
7	86990418	Gauge, Pressure 4" SS 0-100PSI	1	
8	T0052452	Adaptor 1/4" PTC to 1/4 MPT	1	
9	T0051640	T-Bolt Clamp 2"	2	
10	47525135	Fertizr, 24 Row w/30GPM Sq Pmp	1	
11	T0051674	Hose, 0.38" Spray (per ft)	75	
12	T0051675	Hose, 0.75" Spray (per ft)	60	
13	T0052304	Hose, 1.00" Spray (per ft)	1	
14	T0051676	Hose, 1.50" Suction (per ft)	5	
15	T0051677	Hose, 2.00" Suction (per ft)	15	
16	HCLMP-SAE-12SS	Hose Clamp, SAE #12-SS	8	
17	FW-DIN 125-M18C	Washer, FI Din 125 M18-CZ	1	
18	T0052445	3/4" Hose Barb Wye	2	
19	T0052780	Hose, AgSpray 200 Ø3/4x30	1	
20	T0052781	Hose, AgSpray 200 Ø3/4x30	1	
21	TA00693	Assy, Liquid Fert Mount	1	
22	T0053651	Brkt, Suction Tube	1	
23	PCLMP-4.000x2.56	Clmp, Cus Pipe Ø4x2-9/16	1	
24	FW-SAE-0.375Y	Washer, Flat SAE 3/8" YZ	2	
25	NLNUT-0.375-16Y8	Nut, Nylock 3/8-16 YZ8	1	
26	HB-0.375-16X1.00Y8	Bolt, Hex Hd 3/8-16x1-YZ8	1	
27	TA01539	Assy, Sump Fill 500 Elliptical	1	
28	T0051639	T-Bolt Clamp 2.5"	1	
29	TA01541	Assy, Rear Liq Fert Sight Gauge	1	
30	HCLMP-SAE-16SS	Clamp, Hose-SAE-#16-SS	1	

Note:

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

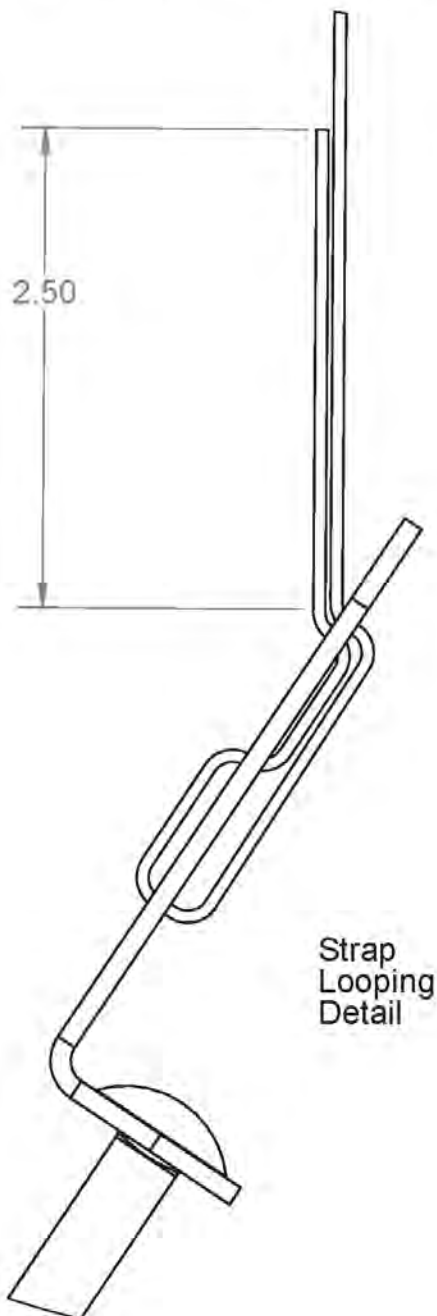


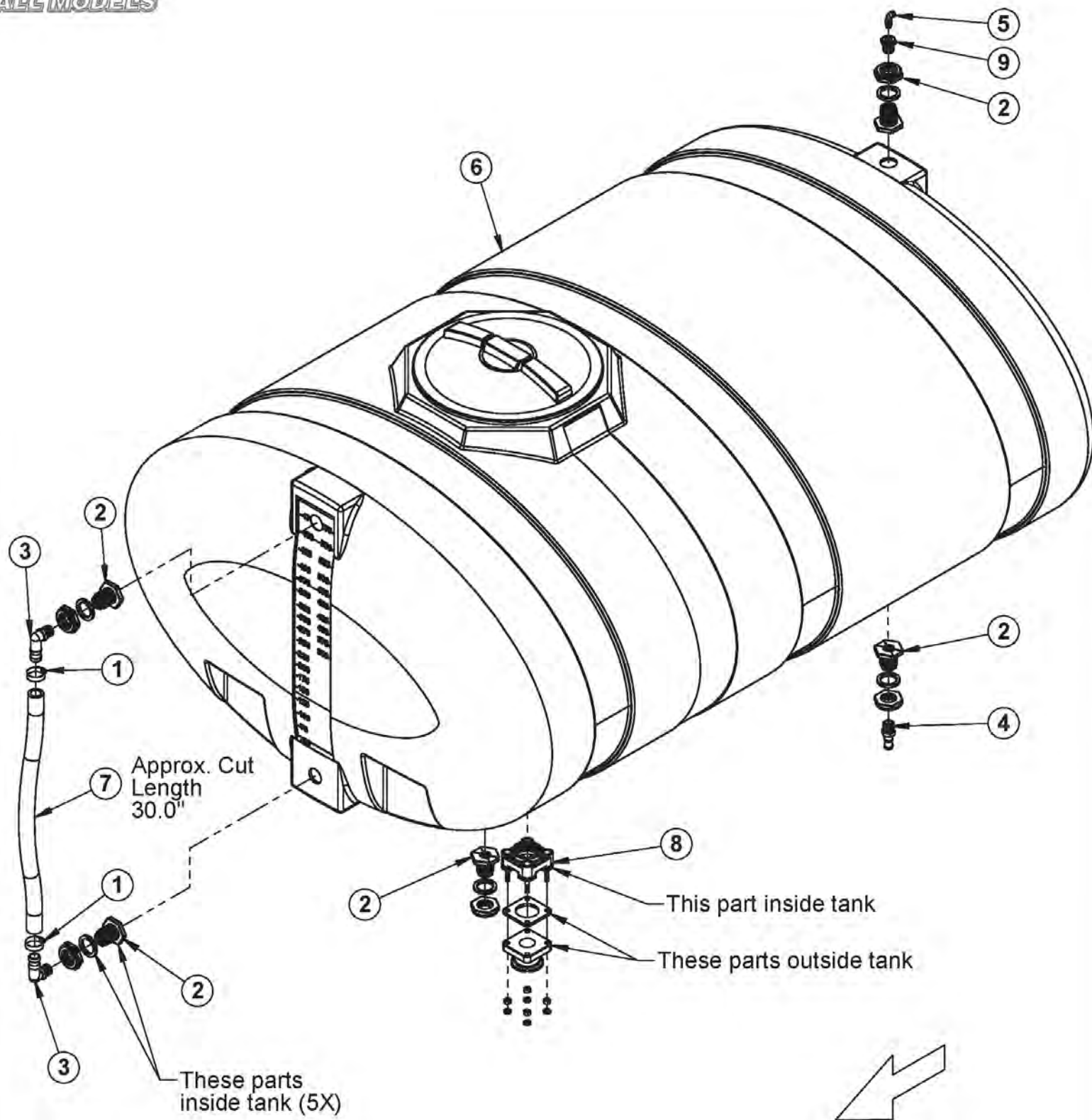
TA01517 Assy, 500 Gal Tank and Base

ITEM	PART NUMBER	DESCRIPTION	QTY.	TORQUE (ft-lbs)
1	TW001254	Wldmt, Tank Base 500 Gal Elliptical	1	
2	T0053517	Brkt, Tank Strap	6	
3	T0055788	Strap, Nylon Tank 4" (per ft)	24	
4	FW-SAE-0.375Y	Washer, Flat SAE 3/8 YZ	12	
5	HB-0.500-13X1.75Y8	Bolt, Hex Hd 1/2-13x1-3/4 YZ8	4	
6	FW-SAE-0.500Y	Washer, Flat SAE 1/2 YZ	4	
7	NLNUT-0.500-13Y8	Nylon Lock Nut, 1/2-13 YZ8	4	
8	CB-0.375-16X4.00C5	Bolt, Carriage 3/8-16x4 CZ5	12	
9	NLNUT-0.375-16Y8	Nylon Lock Nut, 3/8-16 YZ8	12	
10	TA01518	Assy, Fert Tank 500 Gal	1	
11	T0055434	Plate, Washer	6	

Note:

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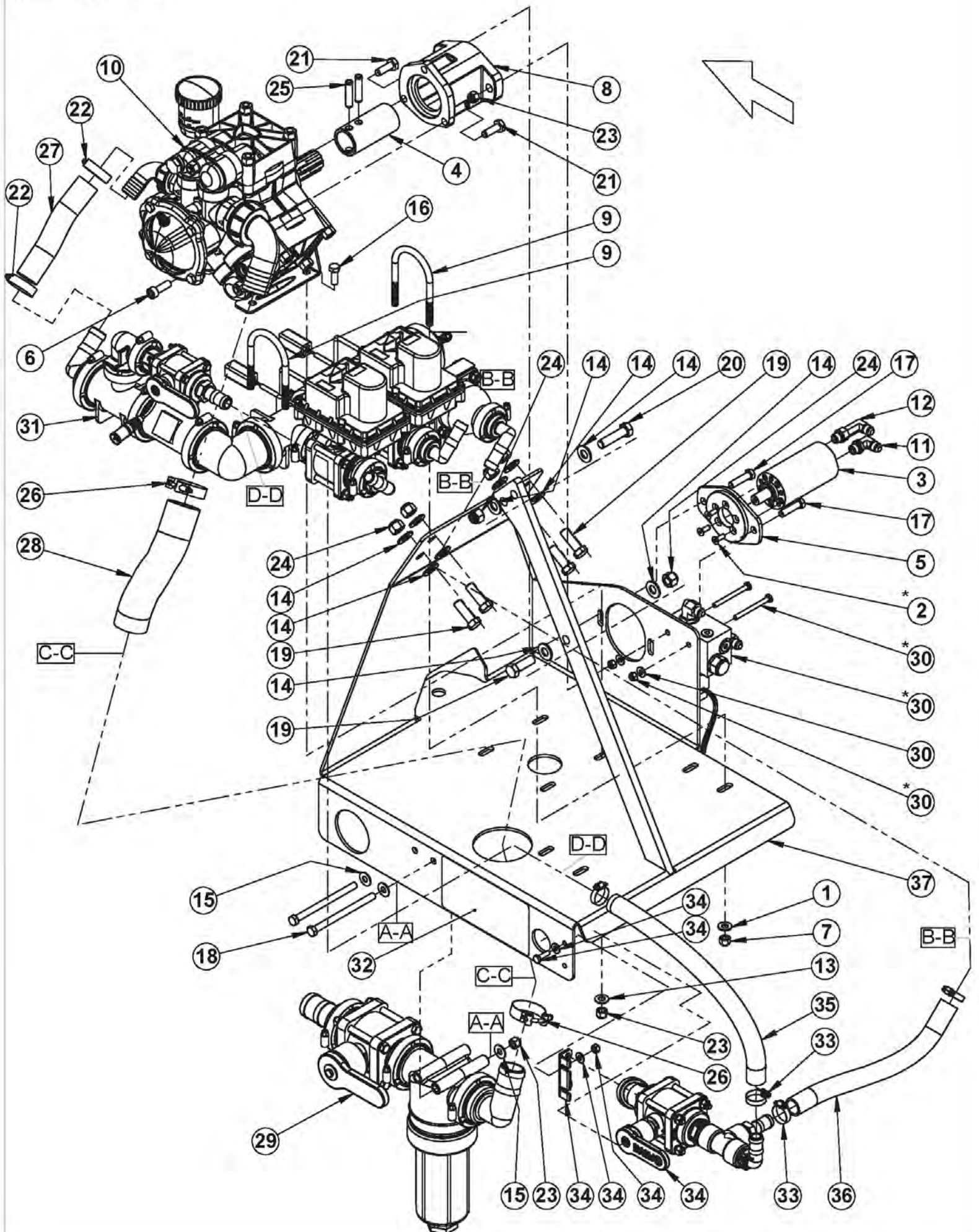


TA01518 Assy, Fert Tank 500 Gal

ITEM	PART NUMBER	DESCRIPTION	QTY.
1	HCLMP-SAE-16SS	Hose Clamp, SAE #16 SS	2
2	T0051176	Ftng, 3/4" Bulkhead Tank	5
3	T0051179	.75" MPT to 1.00" Hose Barb-90	2
4	T0051512	3/4" MPT x 3/4" HB	1
5	T0052453	Elbow 1/4" PTC to 1/4" MPT	1
6	T0055097	Tank, 500 Gal Elliptical	1
7	T0055102	Sight Gauge Hose	1
8	T0055111	Tank Flg, 2" Man Bolted-Btm Drn	1
9	T0055126	Fitting, Reducer Bushing 1/4 X 3/4 MPT	1

Note:

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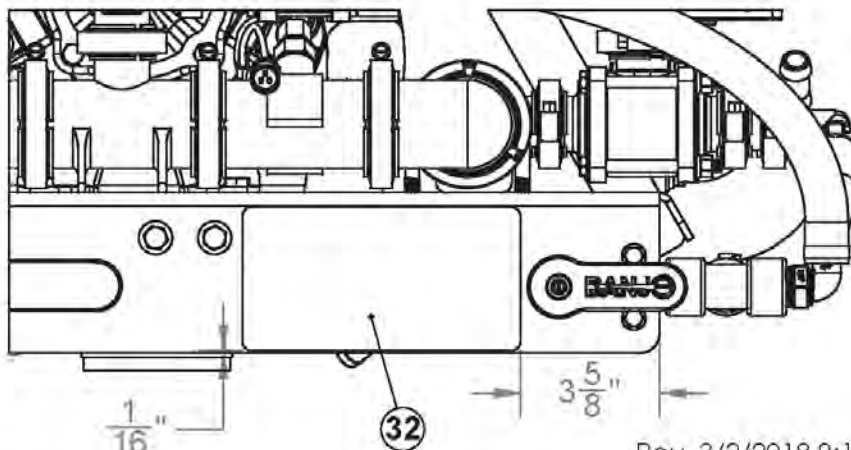


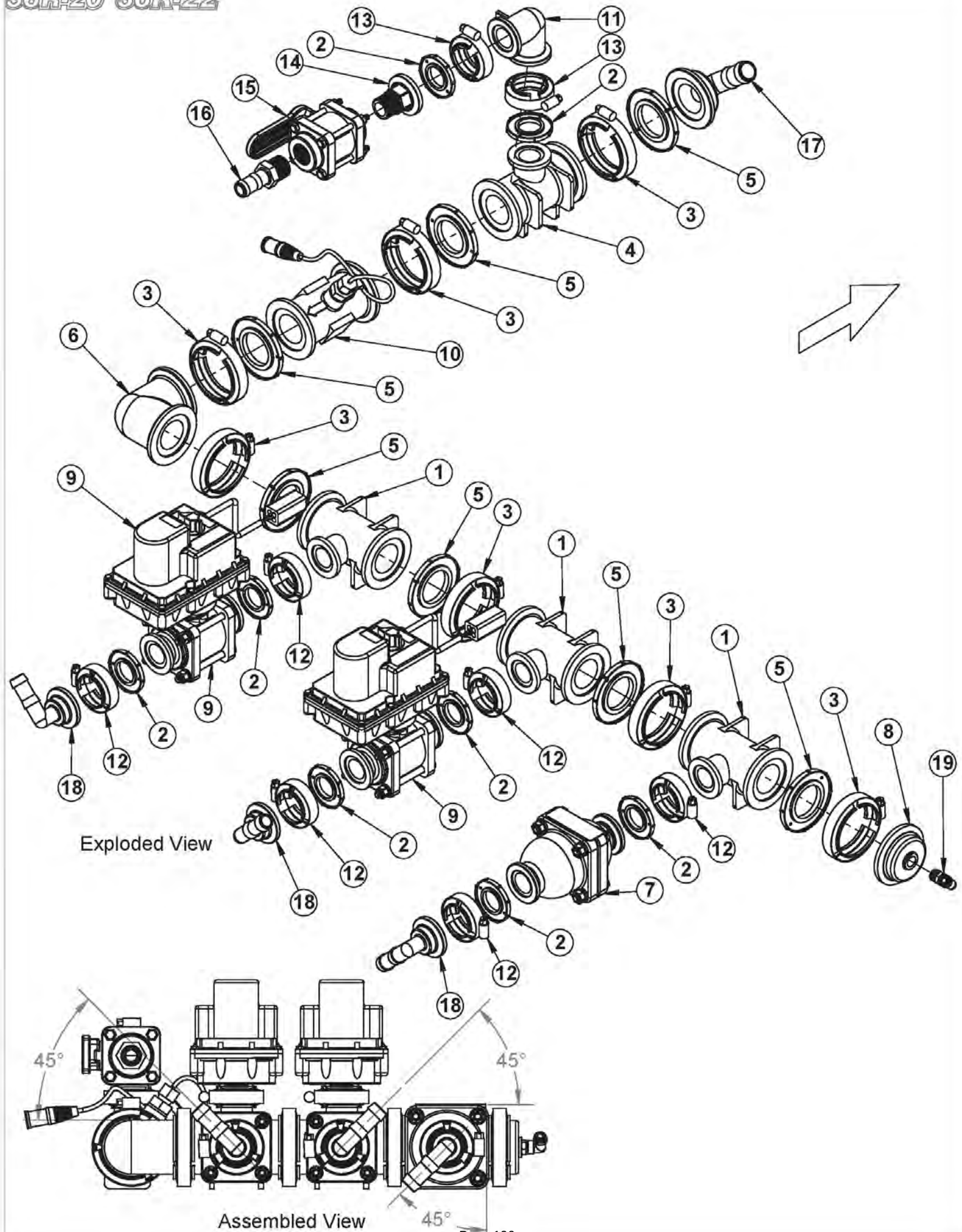
TA01025 Assy, Fertilizer Pump Mount

ITEM	PART NUMBER	DESCRIPTION	QTY.	TORQUE (ft-lbs)
1	87016	Washer	4	
2	87659	FHCSS-0.250-28x0.75-B	3	
3	284797A1	Motor, 19.8CM ³ Disp Fert Drive	1	
4	400299A2	Coupling, Pump Motor	1	
5	400300A1	Flange, Mounting YZ	1	
6	9832986	Screw, Hex Soc Hd, M10x30, 8.8	1	
7	86985855	Nut, Nylock 3/8-16 SS	4	
8	86990284	Flange, Motor Mounting	1	
9	87413269	UBolt-0.3750x3.00x3.63-RB-SS	2	
10	87504661	Pump, Liquid Fertilizer	1	
11	AD-06MJ-06MB-90	ADAPTER 06MJ-06MB 90	1	
12	AD-06MJ-06MB-90LL	ADAPTER 06MJ-06MB 90LL	1	
13	FW-SAE-0.375Y	Washer, Flat SAE 3/8" YZ	4	
14	FW-SAE-0.500Y	Washer, Flat SAE - 1/2-YZ	12	
15	FW-USS-0.313Y	Washer, Flat USS 5/16-YZ	4	
16	HB-0.375-16X1.00Y8	Bolt, Hex Hd 3/8-16x1-YZ8	4	
17	HB-0.375-16X1.50Y8	Bolt, Hex Hd 3/8-16x1-1/2-YZ8	2	
18	HB-0.375-16X5.00Y8	Bolt, Hex Hd-3/8-16x5-YZ8	2	
19	HB-0.500-13X1.50Y8	Bolt, Hex Hd 1/2-13x1-1/2 YZ8	5	
20	HB-0.500-13X2.00Y8	Bolt, Hex Hd 1/2-13x2 YZ8	1	
21	HB-M10-1.5x30-Y10.9	HBolt-M10-1.5x30-YZ10.9	2	
22	HCLMP-SAE-16SS	Clamp, Hose-SAE-#16-SS	2	
23	NLNUT-0.375-16Y8	Nut, Nylock 3/8-16 YZ8	8	
24	NLNUT-0.500-13Y8	Nut, Nylock 1/2-13 YZ8	6	
25	RPin-M10x45	Pin, Spring M10x45	2	
26	T0051640	T-Bolt Clamp 2"	2	
27	T0052449	Hose, AgSpray 300 Ø1X8	1	
28	T0052451	Hose, 1.50" x 9" Suction	1	
29	TA00832	Assy, Filter, Valve Sub	1	
30	TA00833	Assy, Control Valve	1	
31	TA01036	Assy, Fert Pump Valve	1	
32	T0053597	Decal, Warn-Chem Haz & Info	1	
33	HCLMP-SAE-12SS	Hose Clamp, SAE #12-SS	4	
34	TA01035	Assy, Secondary Tank Shutoff	1	
35	T0053600	Hose, AgSpray 200 Ø3/4x15-1/2	1	
36	T0053601	Hose, AgSpray 200 Ø3/4x12	1	
37	TW001393	Wdmt, Fertilizer Mount	1	

Note:

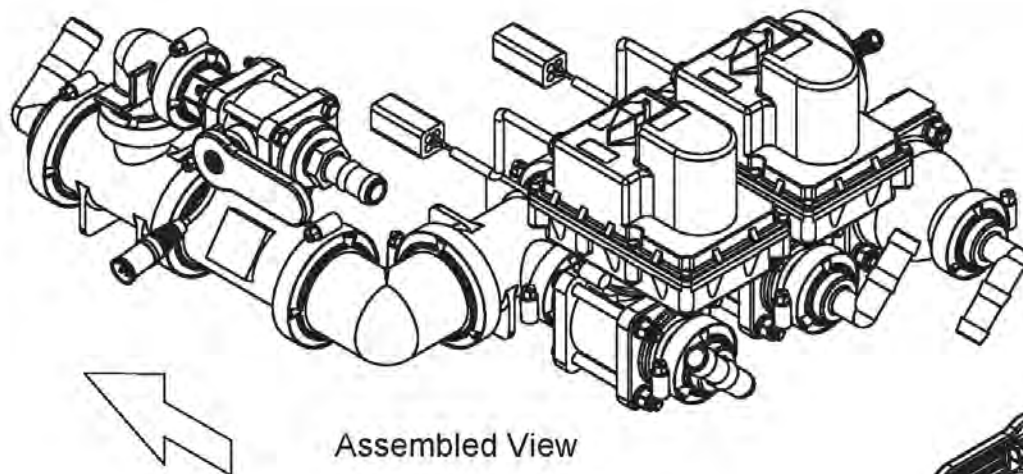
- Item # 27 is cut to length from P/N T0052304.
- Item # 28 is cut to length from P/N T0051676.
- Item # 35 is cut to length from P/N T0051675
- Item # 36 is cut to length from P/N T0051675
- * Items marked with an asterisk, are items that are included with that particular assembly.



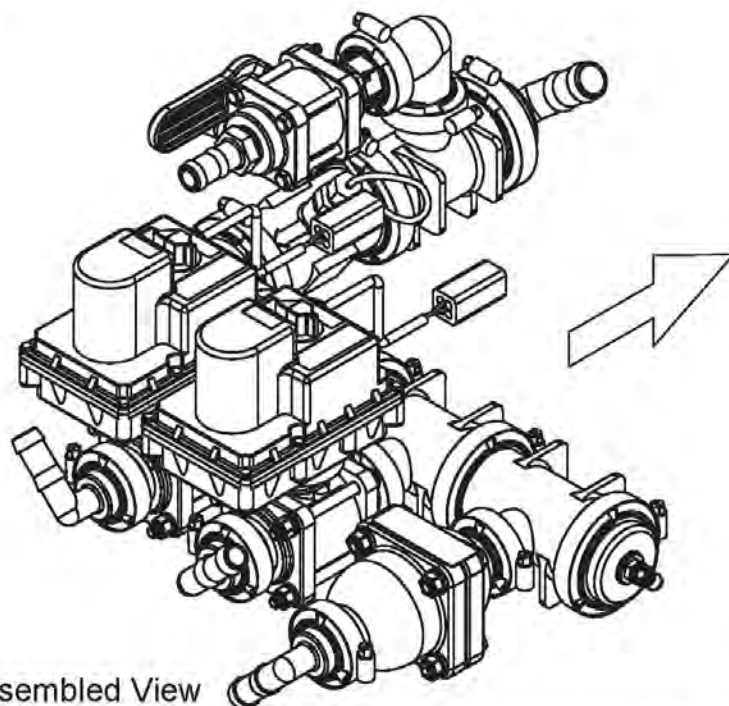


TA01036 Assy, Fert Pump Valve

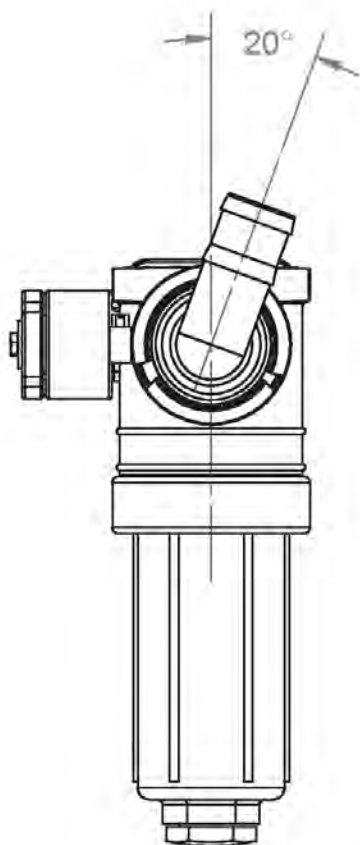
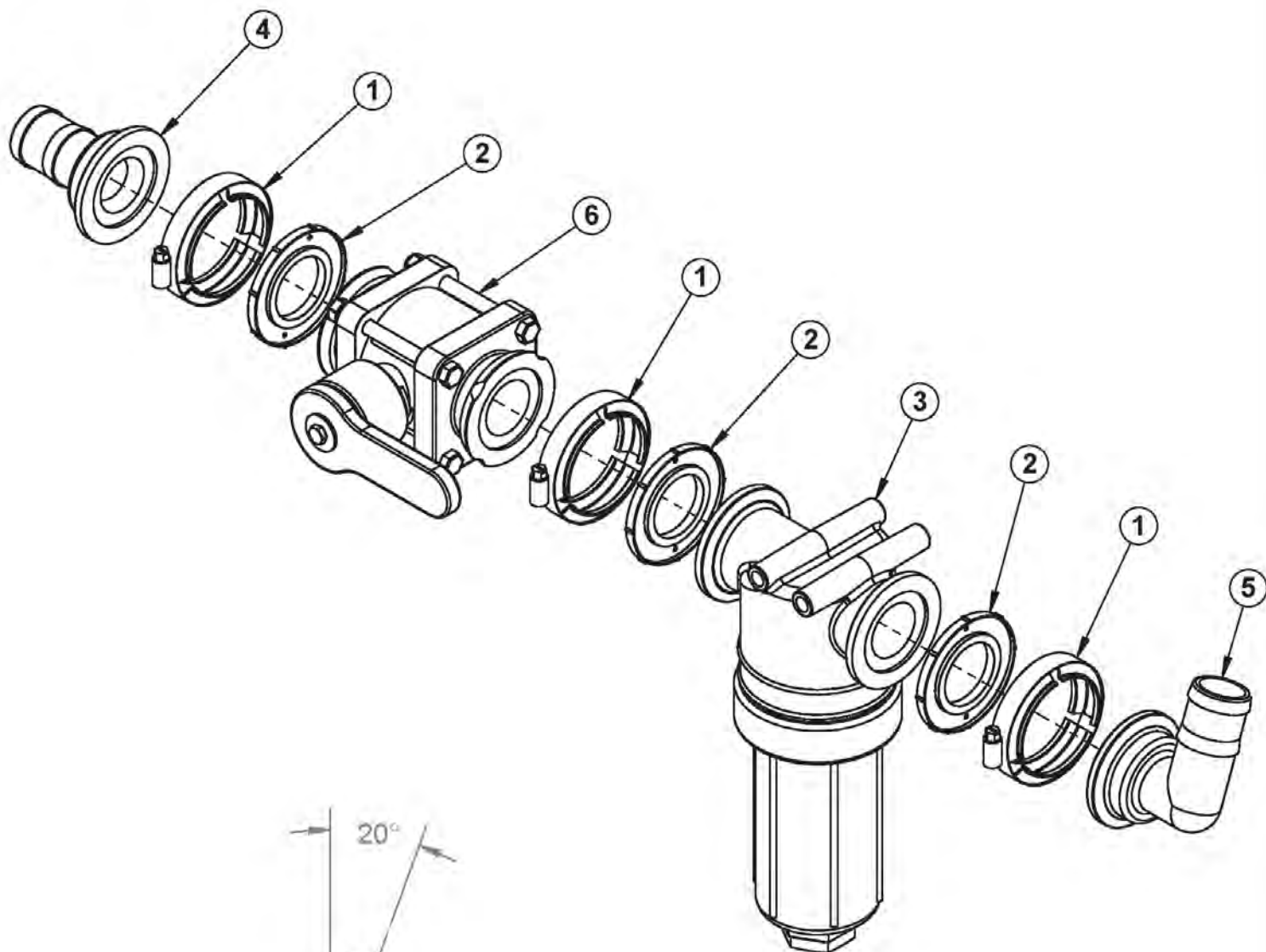
ITEM	PART NUMBER	DESCRIPTION	QTY	TORQUE (ft-lbs)
1	86984089	Tee 2" x 2" x 1"	3	
2	T0053645	Gasket, Univ Flanged 1.0" EPDM	8	
3	406040A1	Clamp 2" Flange	7	
4	T0051076	Tee 2" x 2" x 1"	1	
5	T0053630	Gasket, Univ Flanged 1.5" EPDM	7	
6	405782A1	Elbow 2" 90 Short	1	
7	87505937	Pressure Relief Valve - 100PSI	1	
8	87670356	Plug 2" w/ Gauge Port	1	
9	406039A1	Solenoid Valve - Liquid	2	
10	406037A2	Flowmeter,RFM15 Range .3-15GPM	1	
11	T0051506	Coupler Flange 90 Deg 1"	1	
12	406041A1	Clamp 1" Flange	6	
13	T0051636	Clamp 1" Flange	2	
14	T0051509	1" Flange x 3/4" MPT	1	
15	T0053531	Valve, Full Port .75X.75	1	
16	T0051512	3/4" MPT x 3/4" HB	1	
17	T0051563	2" Flange x 1" 90 HB	1	
18	405785A1	Elbow 90 1" Flange 3/4" HB	3	
19	T0052453	Elbow 1/4" PTC to 1/4" MPT	1	



Assembled View

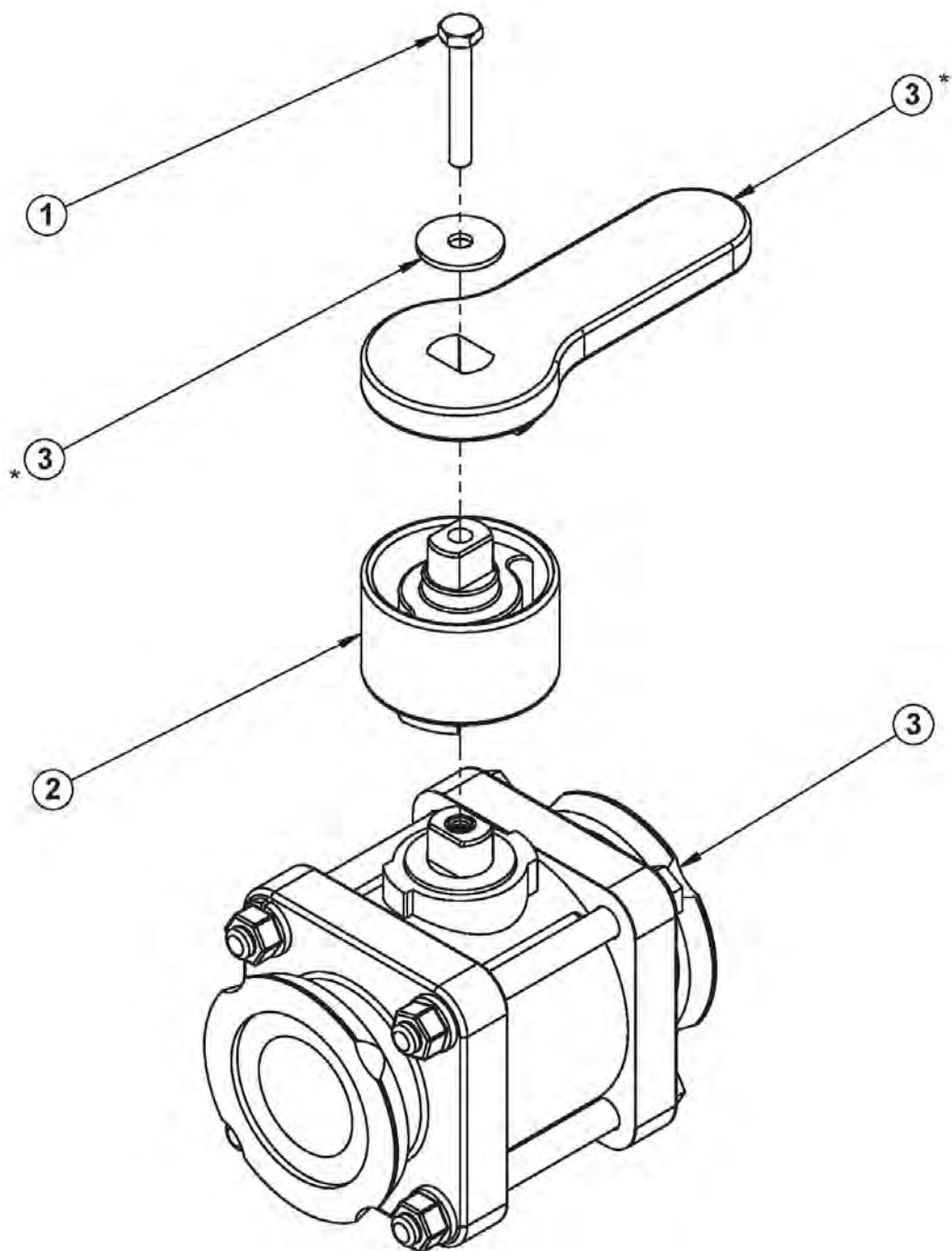


Assembled View



TA00832 Assy, Filter, Valve Sub

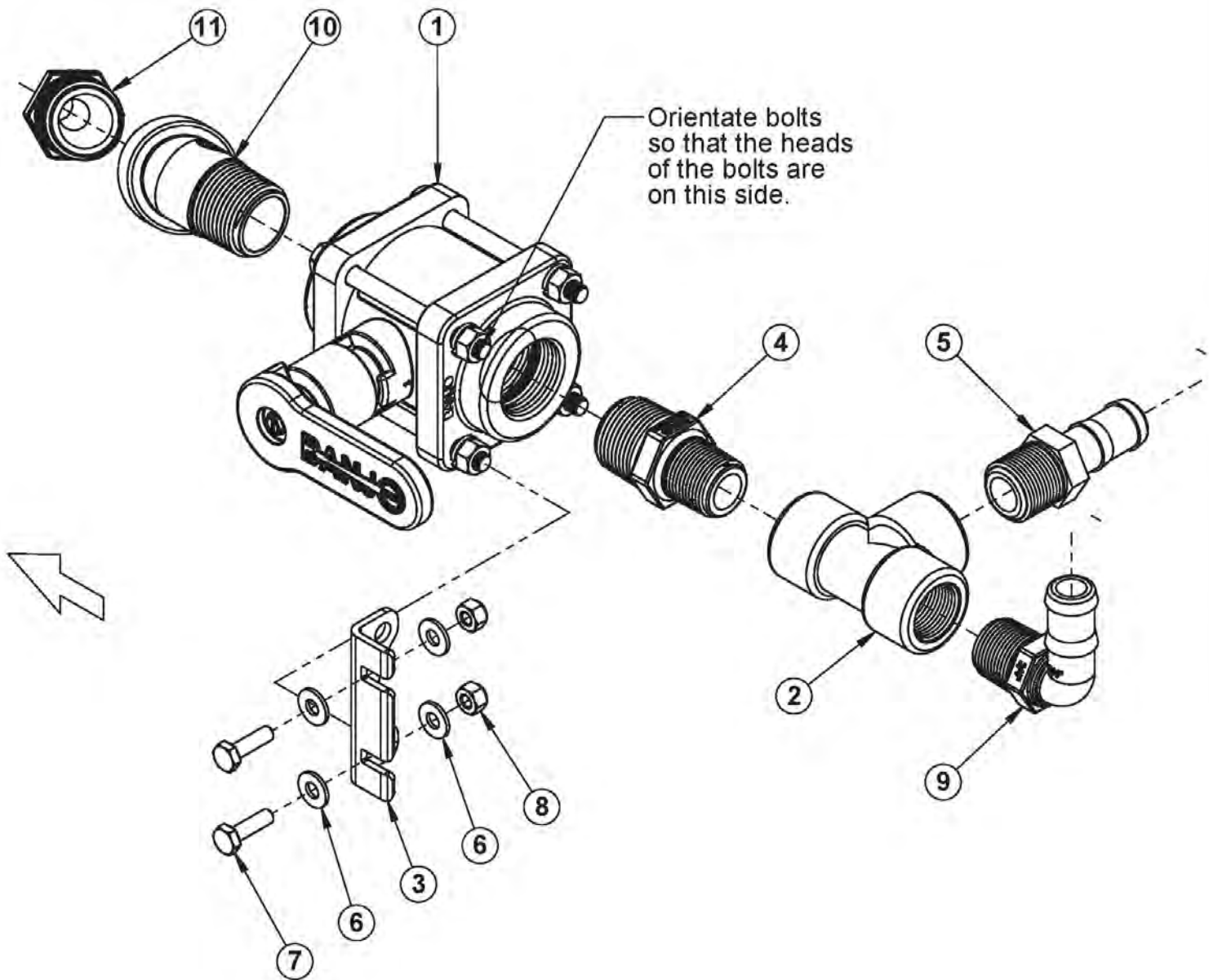
ITEM	PART NUMBER	DESCRIPTION	QTY.	TORQUE (ft-lbs)
1	T0051560	Clamp 2" Flange	3	
2	T0053630	Gasket, Univ Flanged 1.5" EPDM	3	
3	T0051597	Mnfld, 2" T Strainer-80 Mesh	1	
4	T0051598	Fitting, 2" Flange x 1.5" HB	1	
5	T0051619	2" Flange x 1.5" 90 deg HB	1	
6	TA00829	Assy, Valve With Riser	1	



TA00829 Assy, Valve With Riser

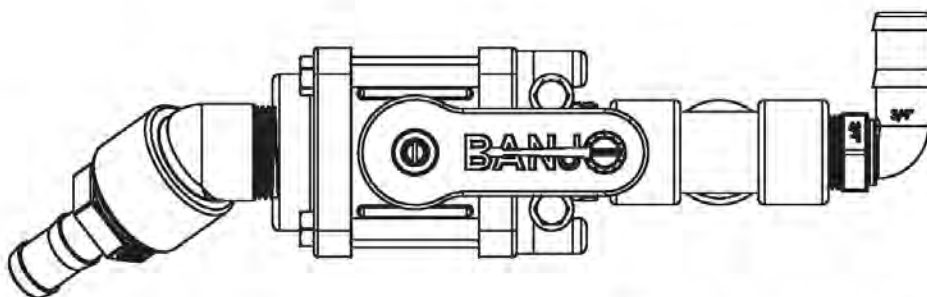
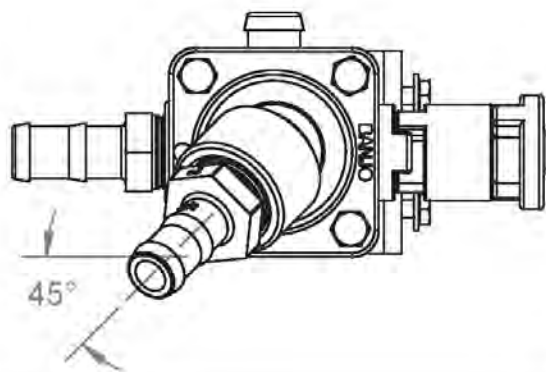
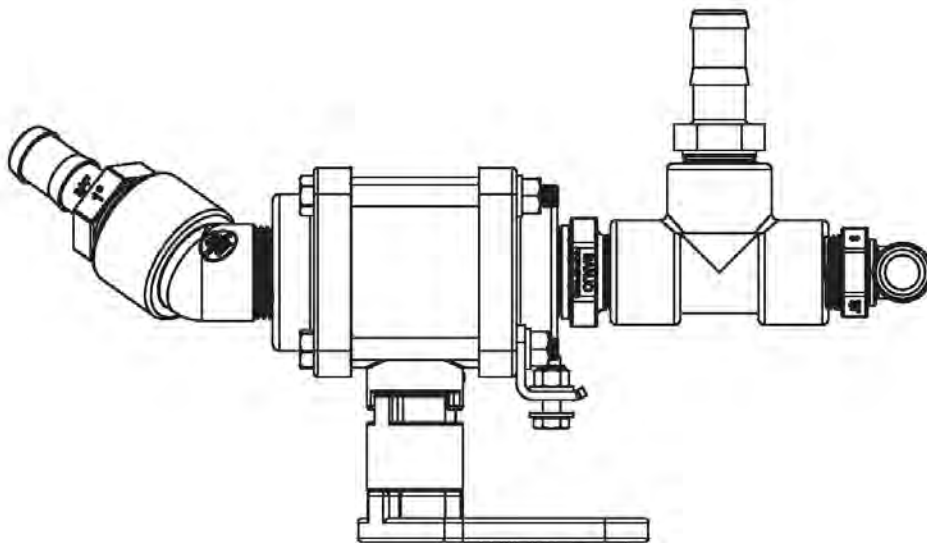
ITEM	PART NUMBER	DESCRIPTION	QTY	TORQUE (ft-lbs)
1	HB-0.250-20X1.75SS	Bolt, hex Hd 1/4-20x1-3/4-SS	1	
2	T0052410	Handle Riser	1	
3	T0051615	Valve, Ball 2" Manifold	1	

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



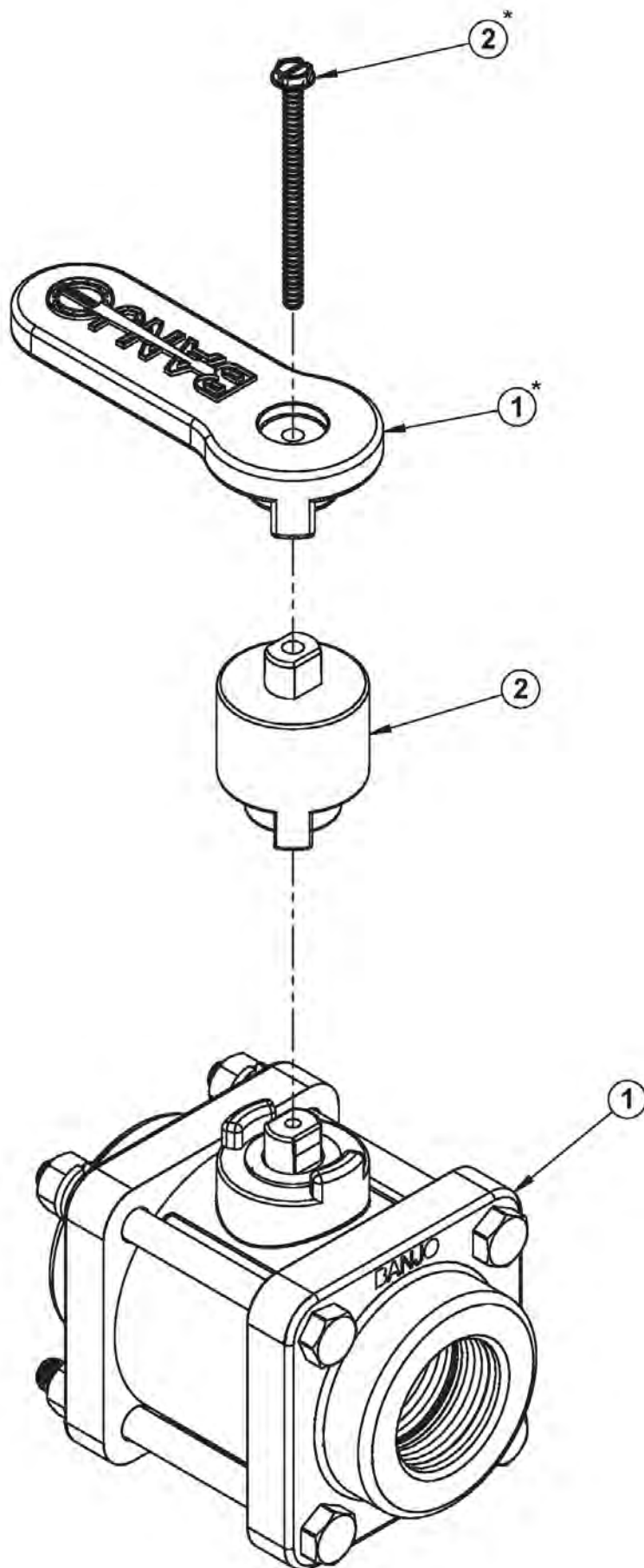
TA01035 Assy, Secondary Tank Shutoff

ITEM	PART NUMBER	DESCRIPTION	QTY.	TORQUE (ft-lbs)
1	TA01037	Assy, Valve w/ Offset Handle	1	
2	T0051558	Tee 3/4" Threaded	1	
3	T0053577	Brkt, Valve Mounting 90 Deg	1	
4	T0053592	Nipple, Reducing Coupler 1x.75	1	
5	T0051512	3/4" MPT x 3/4" HB	1	
6	FW-SAE-0.250Y	Washer, SAE Flat 1/4-YZ	4	
7	HB-0.250-20X0.88Y8	Bolt, Hex Hd 1/4-20x7/8 YZ8	2	
8	NLNUT-0.250-20Y8	Nut, Nylock 1/4-20-YZ8	2	
9	T0053593	Ftng, MPT.75x.75 Hbarb 90 Deg	1	
10	T0053595	Ftng, 45 Deg Street Elbow-1"	1	
11	T0053598	Ftng, 1.0 MPT x .75 Hose Barb	1	



Assembled Views

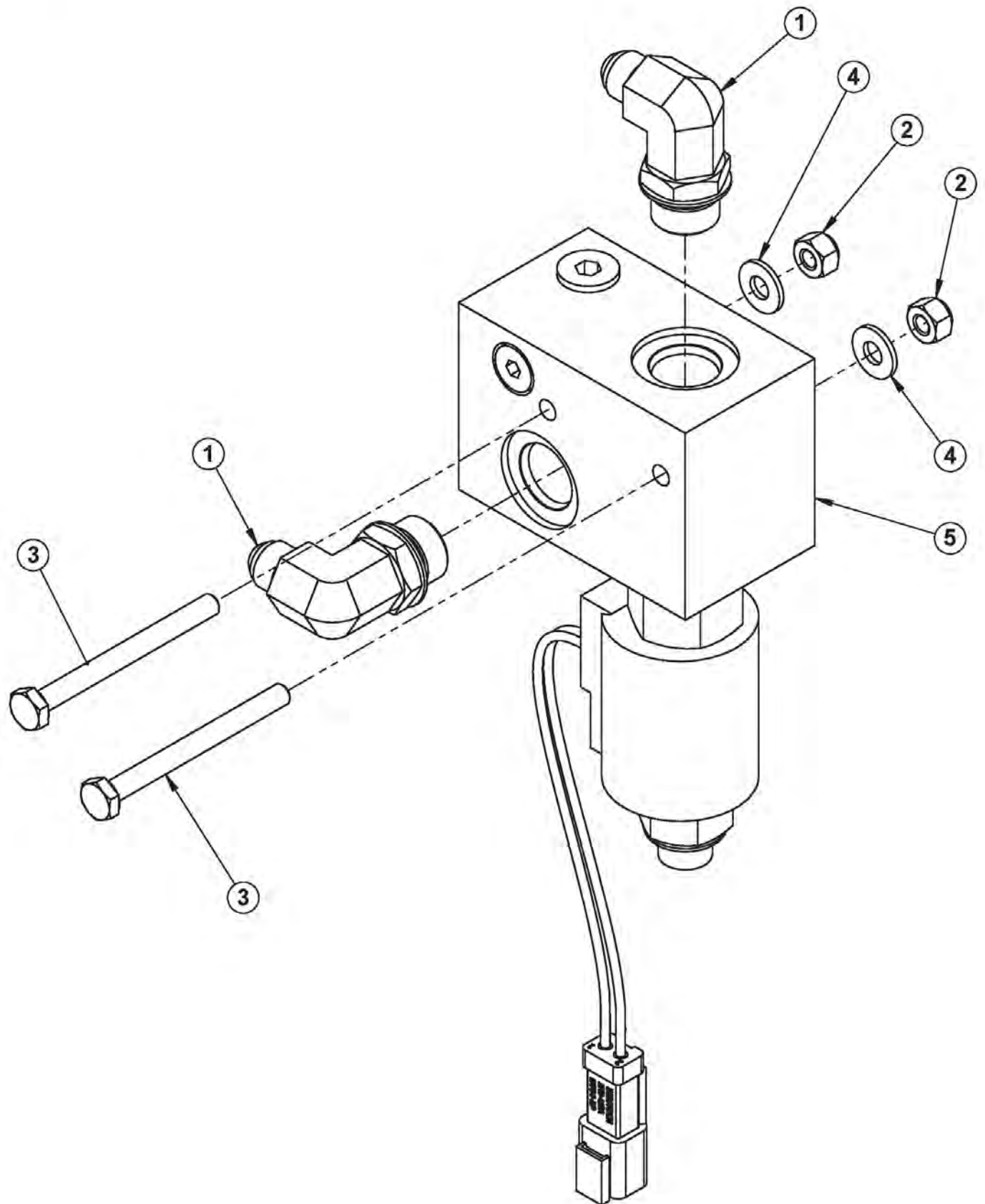
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TA01037 Assy, Valve w/ Offset Handle

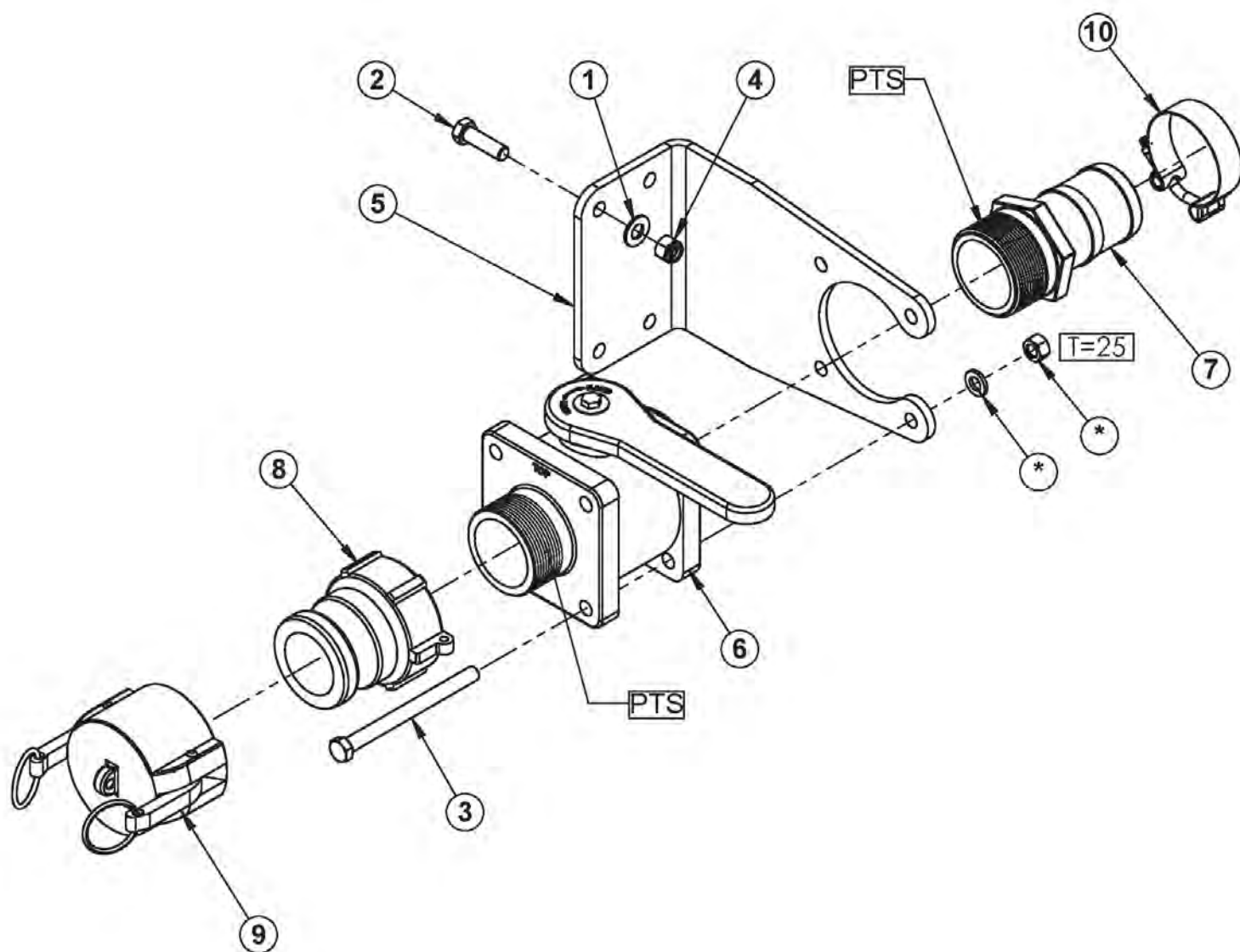
ITEM	PART NUMBER	Vendor	Vendor PN	DESCRIPTION	QTY.	TORQUE (ft-lbs)
1	T0053581	Banjo Corp	V100FP	Valve, Full Port 1 x 1	1	
2	T0053582	Banjo Corp	V10153138	Valve Handle Offset, 2 x 1.375	1	

* Items with an asterisk are supplied with the equivalent item balloon number.



TA00833 Assy, Control Valve

ITEM	PART NUMBER	DESCRIPTION	QTY	TORQUE (ft-lbs)
1	AD-06MJ-08MB-90	ADAPTER 06MJ-08MB 90	2	
2	NLNUT-0.250-20Y8	Nut, Nylock 1/4-20-YZ8	2	
3	HB-0.250-20X2.75Y8	Bolt, Hex Hd 1/4-20X2-3/4 YZ8	2	
4	FW-SAE-0.250Y	Washer, SAE Flat 1/4-YZ	2	
5	419865A1	Valve, Control	1	

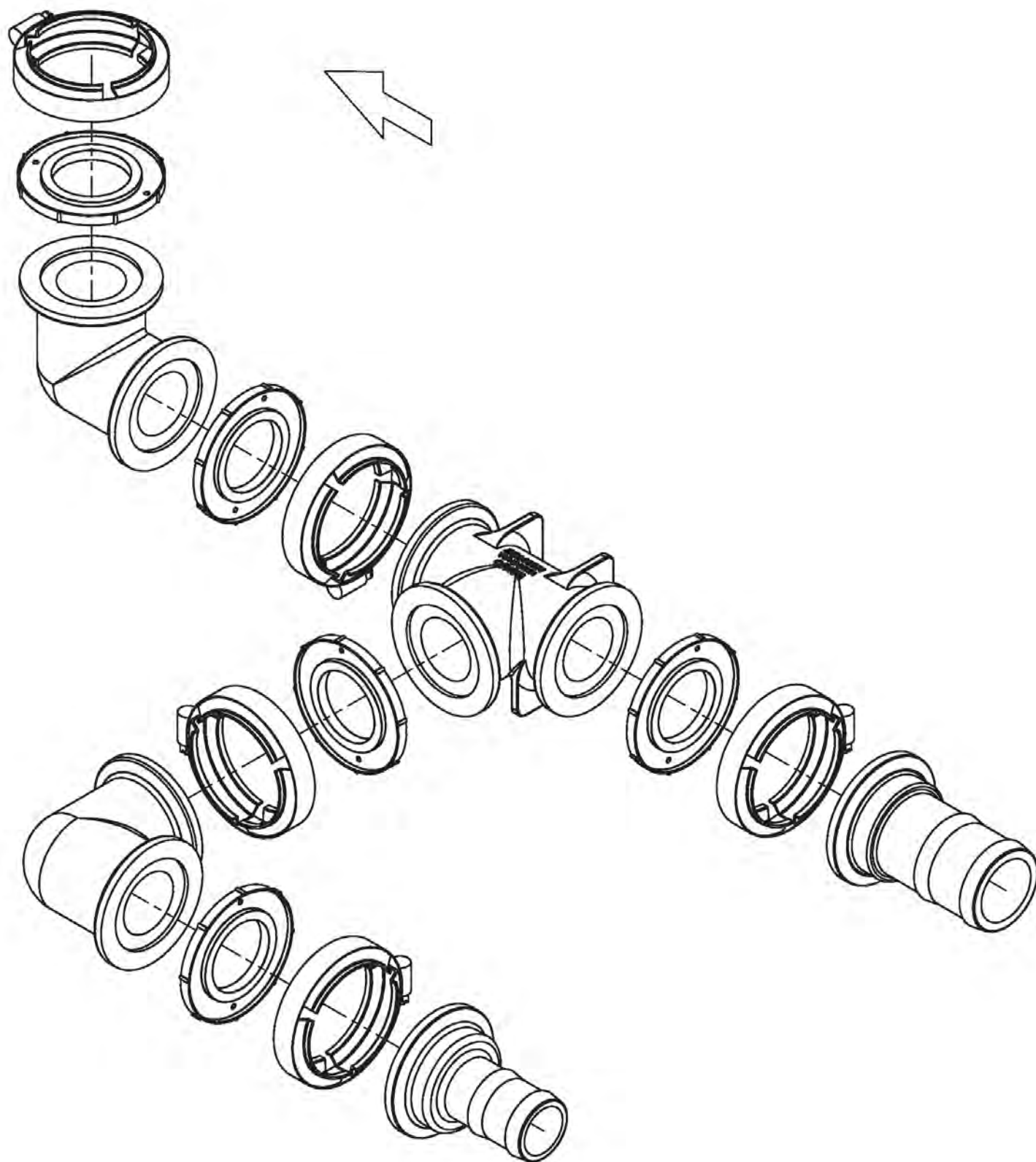


TA00693 Assy, Liquid Fert Mount

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.



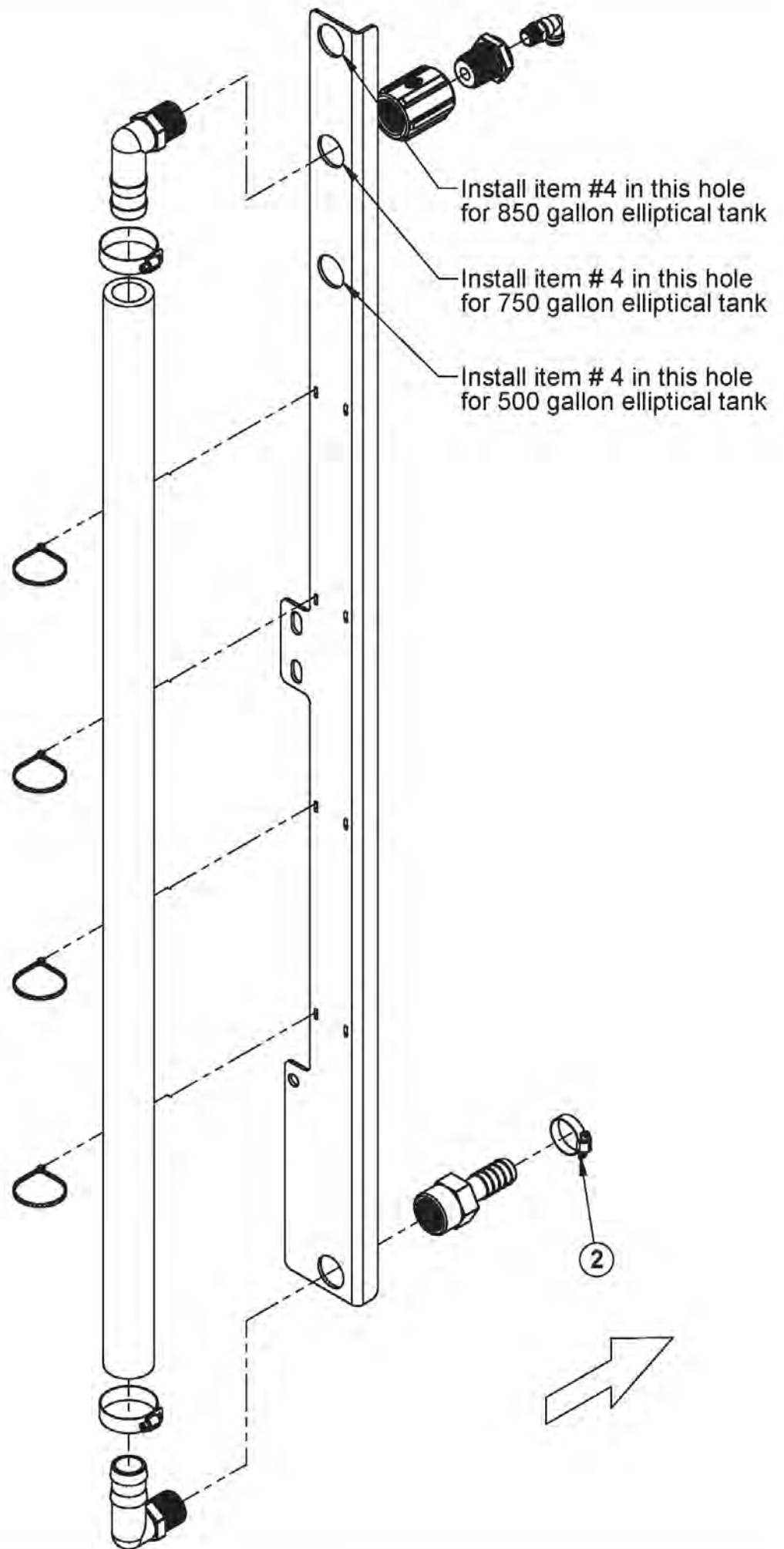
TA01539 Assy, Sump Fill 500 Elliptical

ITEM	PART NUMBER	DESCRIPTION	QTY.	TORQUE (ft-lbs)
1	T0051614	2" x 2" 90 deg Flange	2	
2	T0055110	Fitting, Manifold Tee, 2"	1	
3	T0053630	Gasket, Univ Flanged 1.5" EPDM	5	
4	T0051560	Clamp 2" Flange	5	
5	T0051598	Fitting, 2" Flange x 1.5" HB	1	
6	T0051612	2" Flange x 2" HB	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.

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.

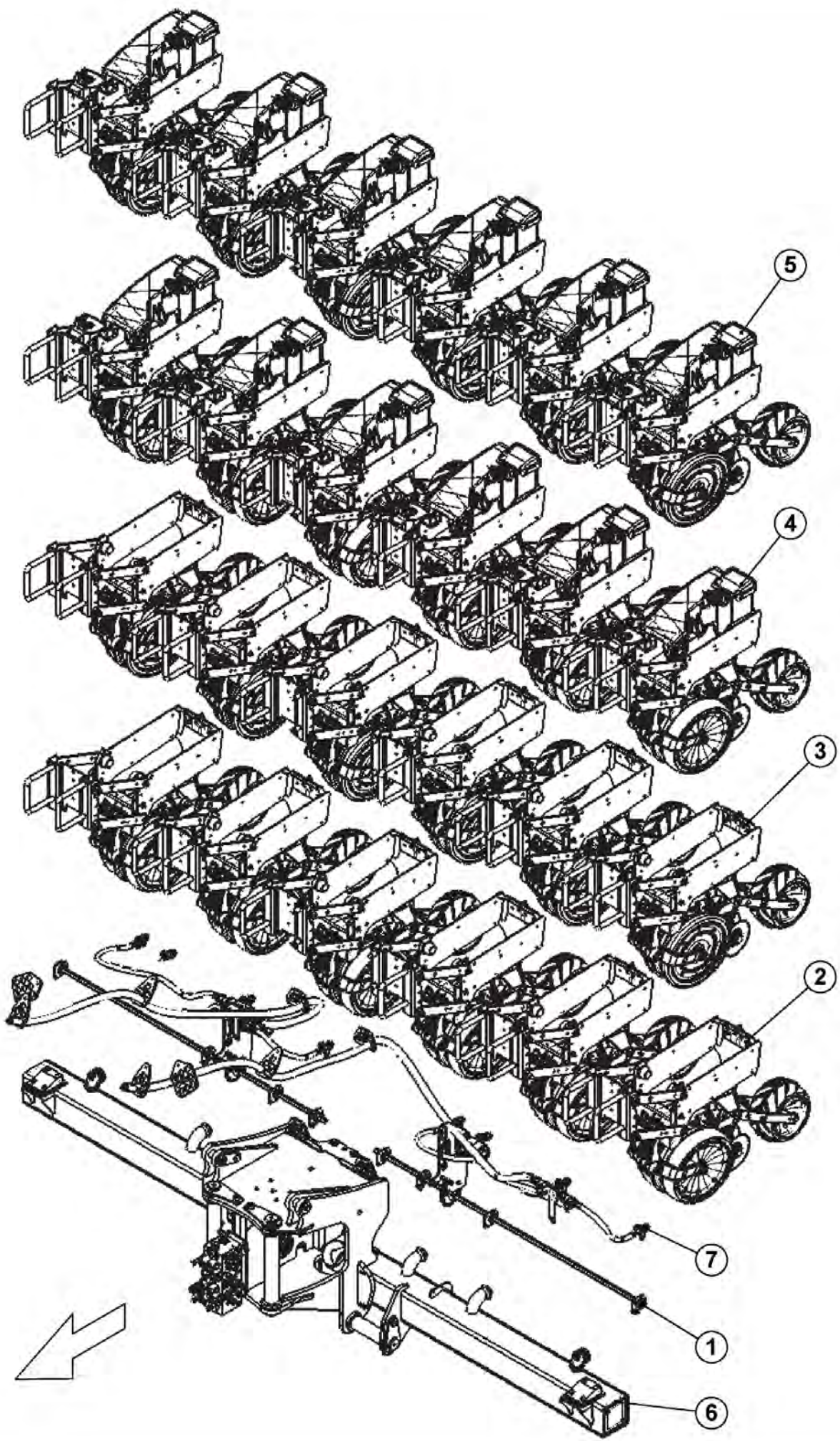
TA01541 Assy, Rear Liq Fert Sight Gauge (850 Gallon Elliptical Tank Option)

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.

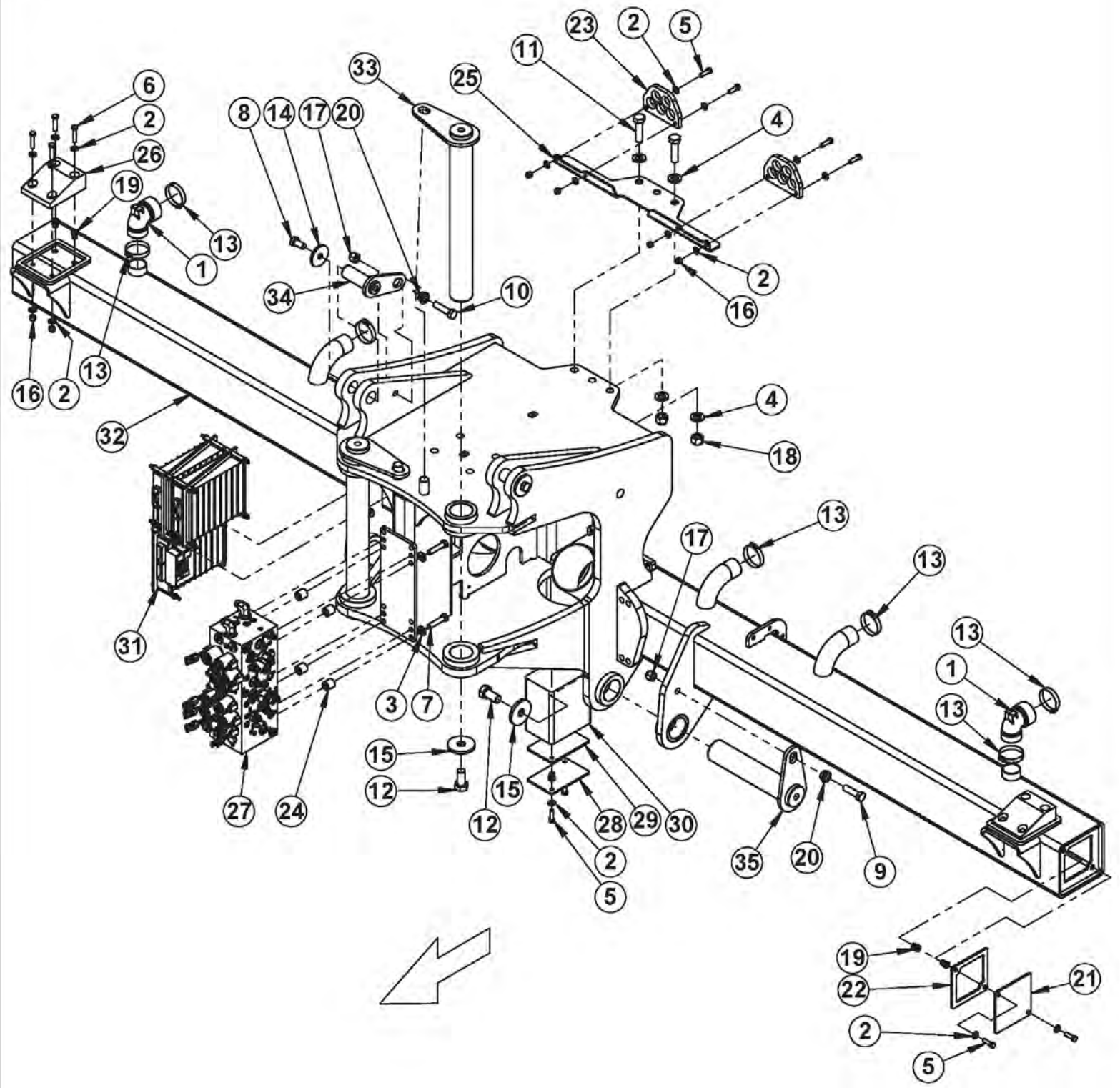


TA01149 24R30 Center Bar Assy

ITEM	PART NUMBER	DESCRIPTION	QTY.	TORQUE (ft-lbs)
1	TA01330	24R30 Center Hyd Seed Drive	1	
2	TA01507	24R30 Center Bar PR STD GW RUs	1	
3	TA01508	24R30 Center Bar PR NGW RUs	1	
4	TA01509	24R30 Center Bar ASM STD GW RUs	1	
5	TA01510	24R30 Center Bar ASM NGW RUs	1	
6	TA01512	24R30 Center Bar Base Assy	1	
7	TA01573	Assy, 24R30 Center Bar Fert Routing	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.

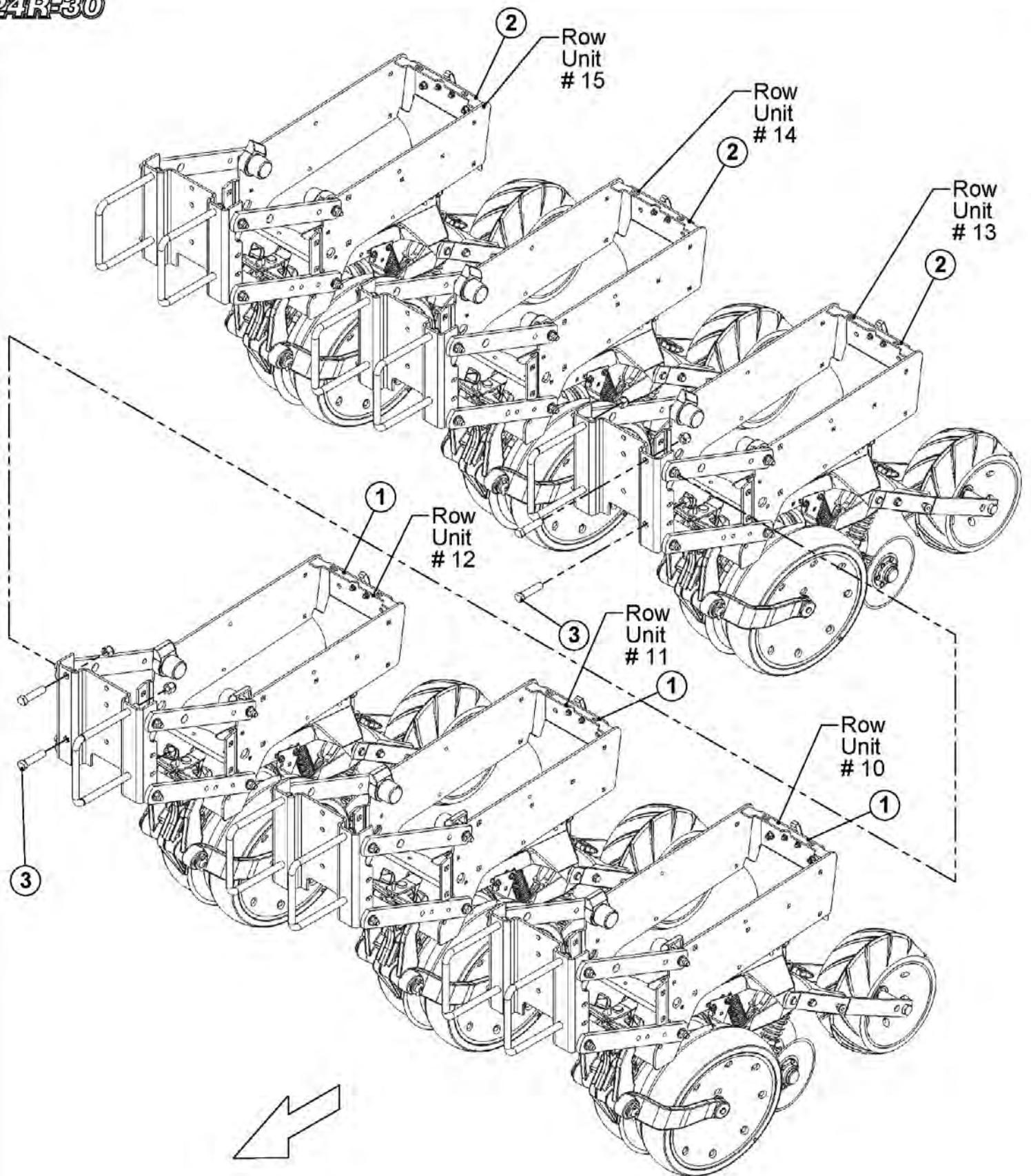


TA01512 24R30 Center Bar Base Assy

ITEM	PART NUMBER	DESCRIPTION	QTY.	TORQUE (ft-lbs)
1	84416530	Elbow, Vacuum	2	
2	FW-SAE-0.375Y	Washer, Flat SAE 3/8" YZ	26	
3	FW-SAE-0.500Y	Washer, Flat SAE - 1/2-YZ	4	
4	FW-SAE-0.750Y	Washer, Flat-SAE 3/4 YZ	4	
5	HB-0.375-16X1.25Y8	Bolt, Hex Hd 3/8-16x1-1/4 YZ8	10	
6	HB-0.375-16X1.75Y8	Bolt, Hex Hd-3/8-16x1-3/4-YZ8	8	
7	HB-0.500-13X2.25Y8	Bolt, Hex Hd 1/2-13x2-1/4 YZ8	4	
8	HB-0.625-11X1.25Y8	Bolt, Hex Head-5/8-11x1.25-YZ8	2	
9	HB-0.625-11X2.25Y8	Bolt, Hex Head-5/8-11x2.25-YZ8	2	
10	HB-0.625-11X2.50Y8	Bolt, Hex Head-5/8-11x2.5-YZ8	2	
11	HB-0.750-10X2.75Y8	Bolt, Hex Hd 3/4-10x2-3/4-YZ8	2	
12	HB-0.875-9X1.75Y8	Bolt, Hex Hd 7/8-9x1-3/4-YZ8	4	
13	HCLMP-SAE-32SS	HClamp-SAE-32-SS	8	
14	HDWSH-0.64X2.50Y	HD Washer 0.64 x 2.50	2	
15	HDWSH-0.89X3.00Y	HD Washer 0.89 x 3.00	4	
16	NLNUT-0.375-16Y8	Nut, Nylock 3/8-16 YZ8	8	
17	NLNUT-0.625-11Y8	Nut, Nylock-5/8-11-YZ8	4	
18	NLNUT-0.750-10Y8	Nut, Nylock 3/4-10-YZ8	2	
19	RN-0.375-16-.15-.31Y	Rivnut, 3/8-16 .150-.312 YZ	10	
20	T0050854	Anti Rotation Insert	4	
21	T0052124	Clean Out Cover	2	
22	T0052125	Seal, Clean Out Cover	2	
23	T0052450	Guide, Hose Seed Tube Cen Fr	2	
24	T0052525	Spacer, L&F Valve	4	
25	T0054208	Brkt, Seed Hose Mtg	1	
26	T0054271	Slider Block	2	
27	T0054378	Valve Assy, Lift & Fold	1	
28	T0054651	Clean Out Cover	1	
29	T0054652	Seal, Clean Out Cover	1	
30	T0054653	Foam Block	1	
31	TA01216	Assy, ECU	1	
32	TW000990	Wldmt, 30" Center Bar	1	
33	TW001008	Pin Weldment	2	
34	TW001009	Pin Weldment	2	
35	TW001012	Pin Weldment	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.

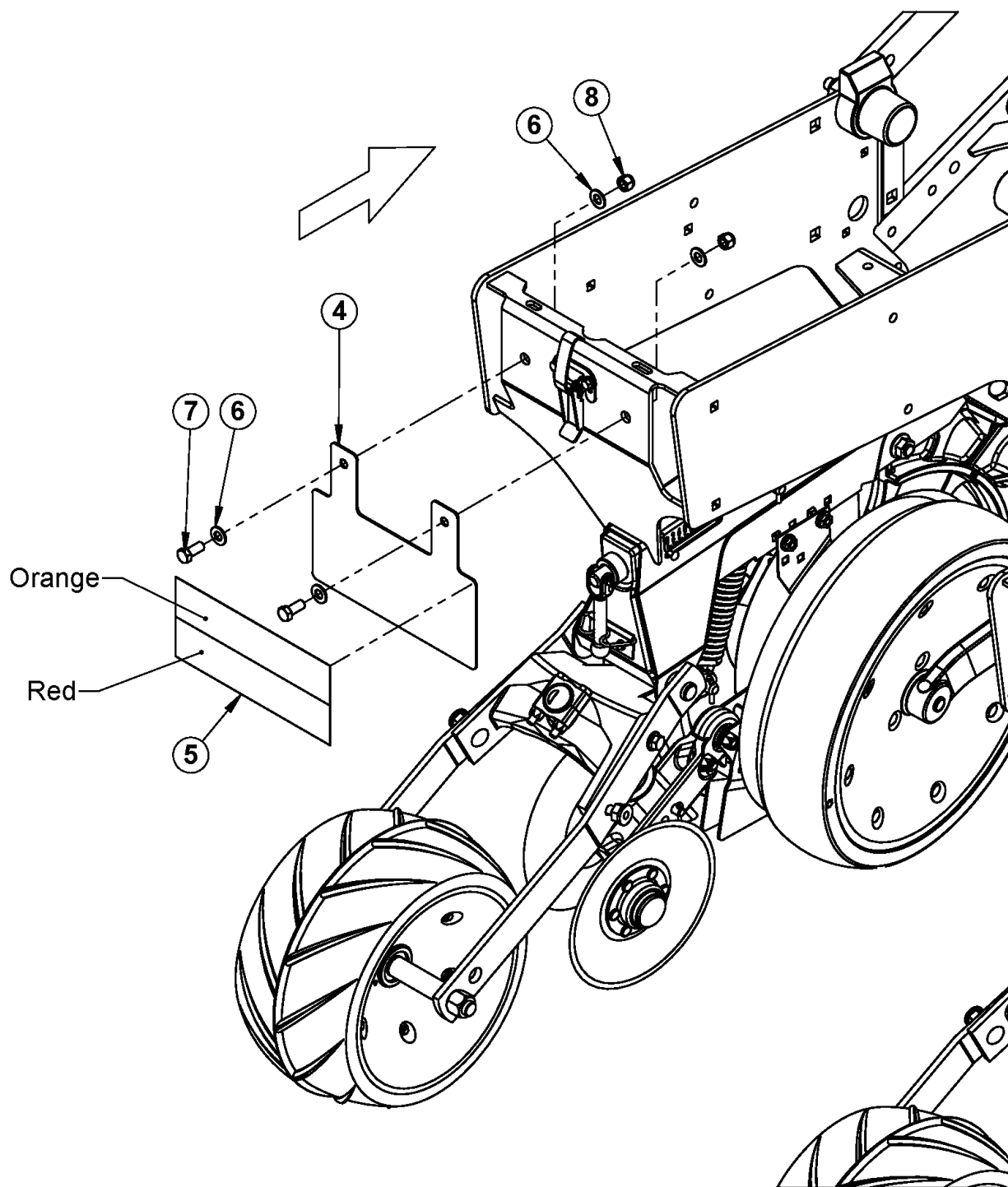


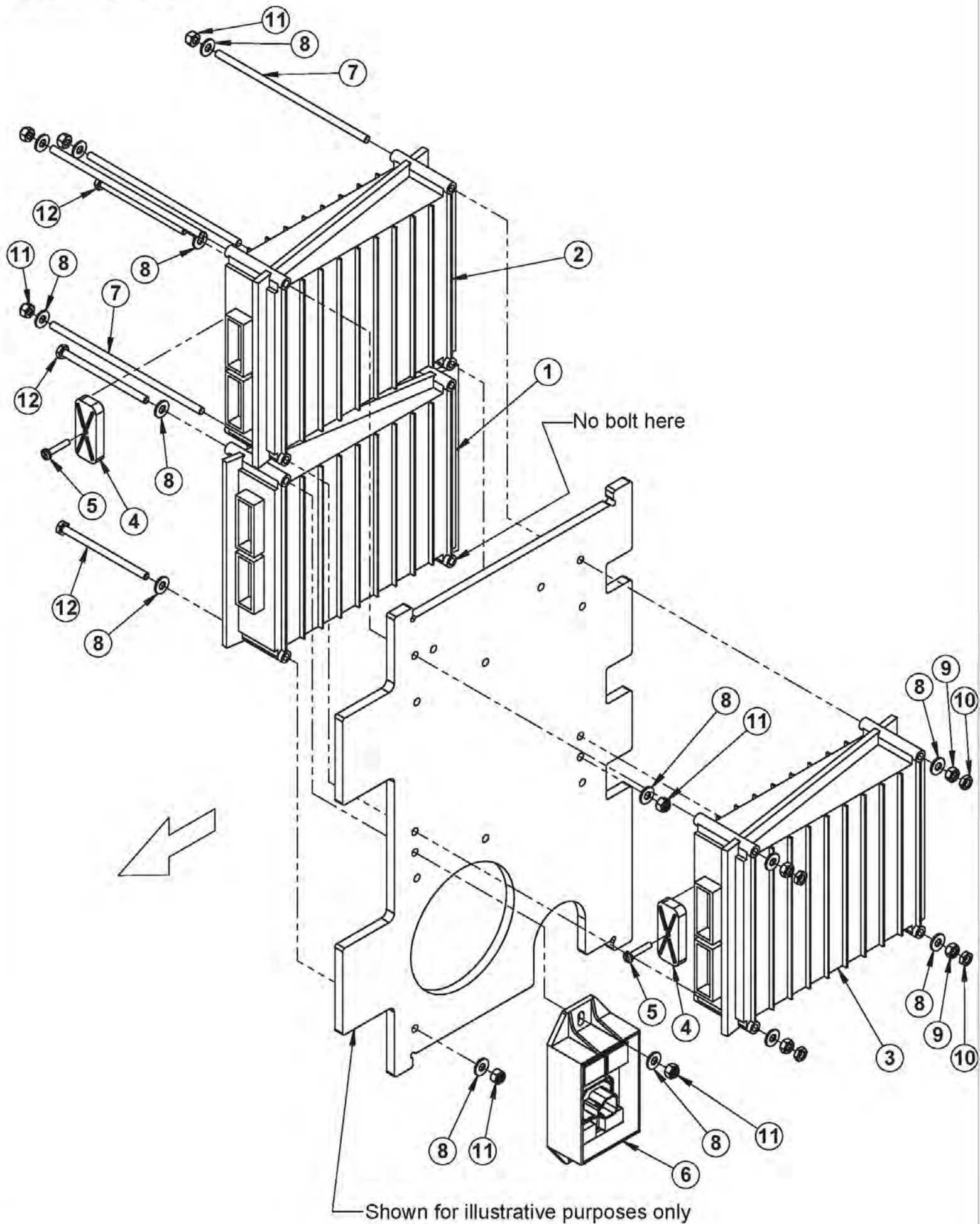
TA01507 24R30 Center Bar PR STD GW RUs

ITEM	PART NUMBER	DESCRIPTION	QTY	TORQUE (ft-lbs)
1	47876037	LH PR STD GW Row Unit	3	
2	47876038	RH PR STD GW Row Unit	3	
3	TB-0.625-11X2.75Y8	TBolt-5/8-11x2.75-YZ8	4	
4	T0051736	Brckt, Rear Row Unit Reflector	2	
5	T0051727	Decal, Refl Red,Orange-2x18	2	
6	FW-SAE-0.375Y	Washer, Flat SAE 3/8" YZ	8	
7	HB-0.375-16X0.88Y8	Bolt, Hex Hd 3/8-16x7/8-YZ8	4	
8	NLNUT-0.375-16Y8	Nut, Nylock 3/8-16 YZ8	4	

Note:

1. T=XXX = Torque, and is expressed in ft-lbs.
2. * Items marked with an asterisk are items that are included in that particular part or assembly.



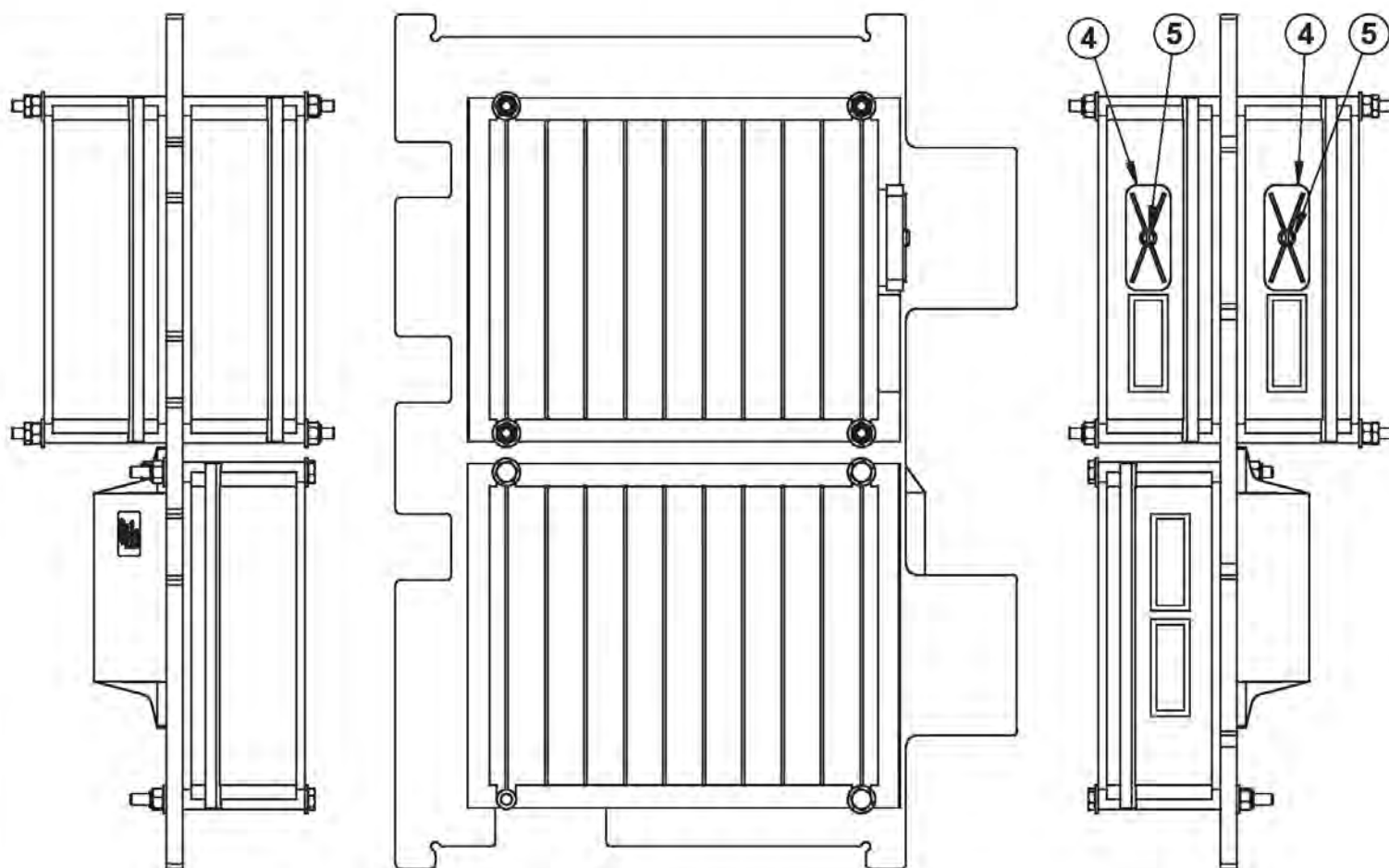


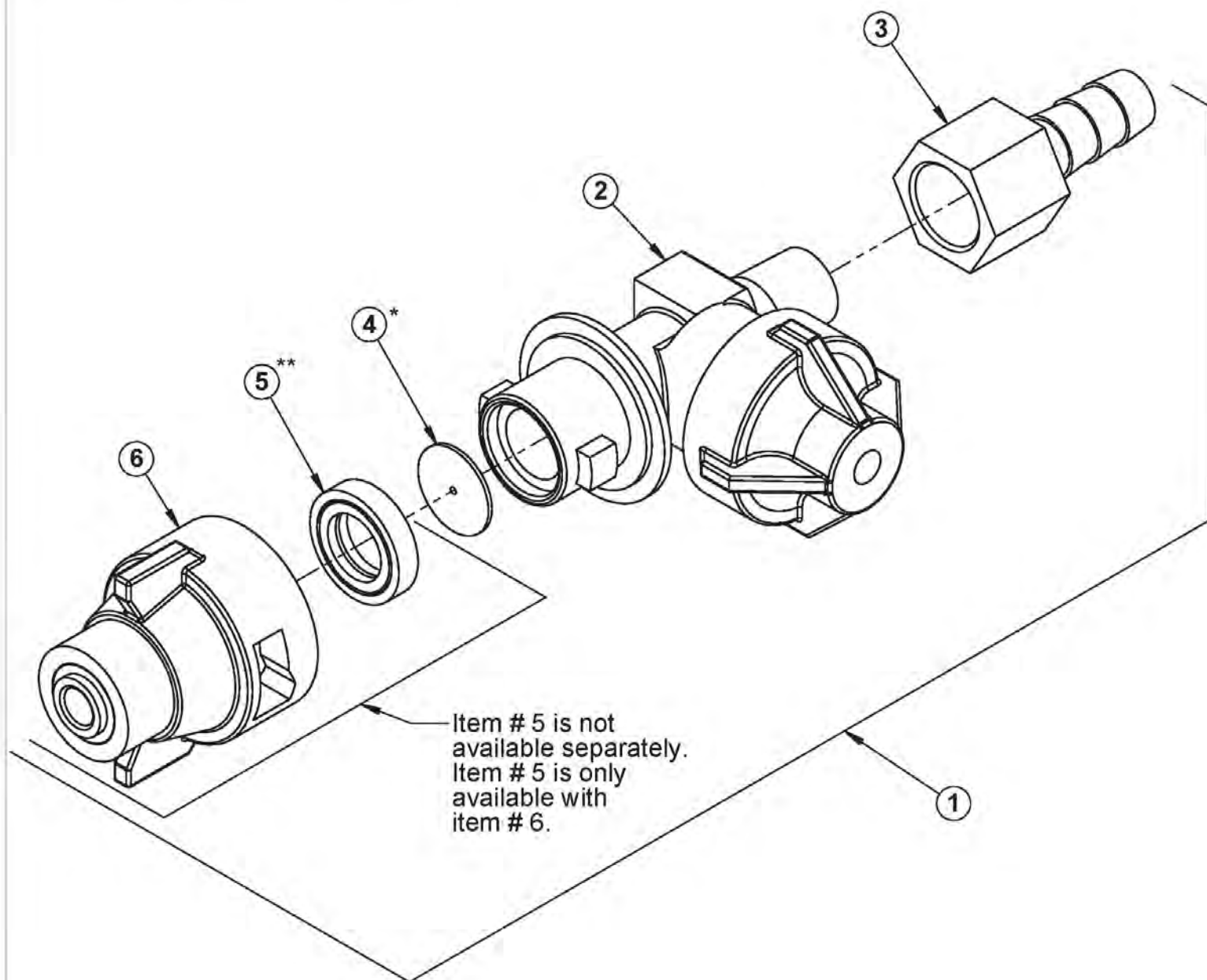
TA01216 Assy, ECU

ITEM	PART NUMBER	DESCRIPTION	QTY	TORQUE (ft-lbs)
1	84485907	MODULE, RATE, DUAL CAN, IB	1	
2	87588172	MODULE, FRM,IB	1	
3	87588172	MODULE, FRM,IB	1	
4	425269A1	Dust Cap 30-Pin	2	
5	470-11016	SL-PHMS #10-24x1.000-YZ	2	
6	86561136	Module, Impl Lighting Control	1	
7	T0054644	Rod, Thrd 1/4-20UNC X 7.25	4	
8	FW-SAE-0.250Y	Washer, SAE Flat 1/4-YZ	14	
9	HNUT-0.250-20Y8	Nut, Hex 1/4-20 YZ8	4	
10	JNUT-0.250-20Y8	Nut, Jam 1/4-20-YZ8	4	
11	NLNUT-0.250-20Y8	Nut, Nylock 1/4-20-YZ8	7	
12	HB-0.250-20X4.00Y8	Bolt, Hex Hd-1/4-20x4-YZ8	3	

Note:

1. Item's 7, 8, 9, & 10 Harnesses are not included in this isometric representation for the assembly.





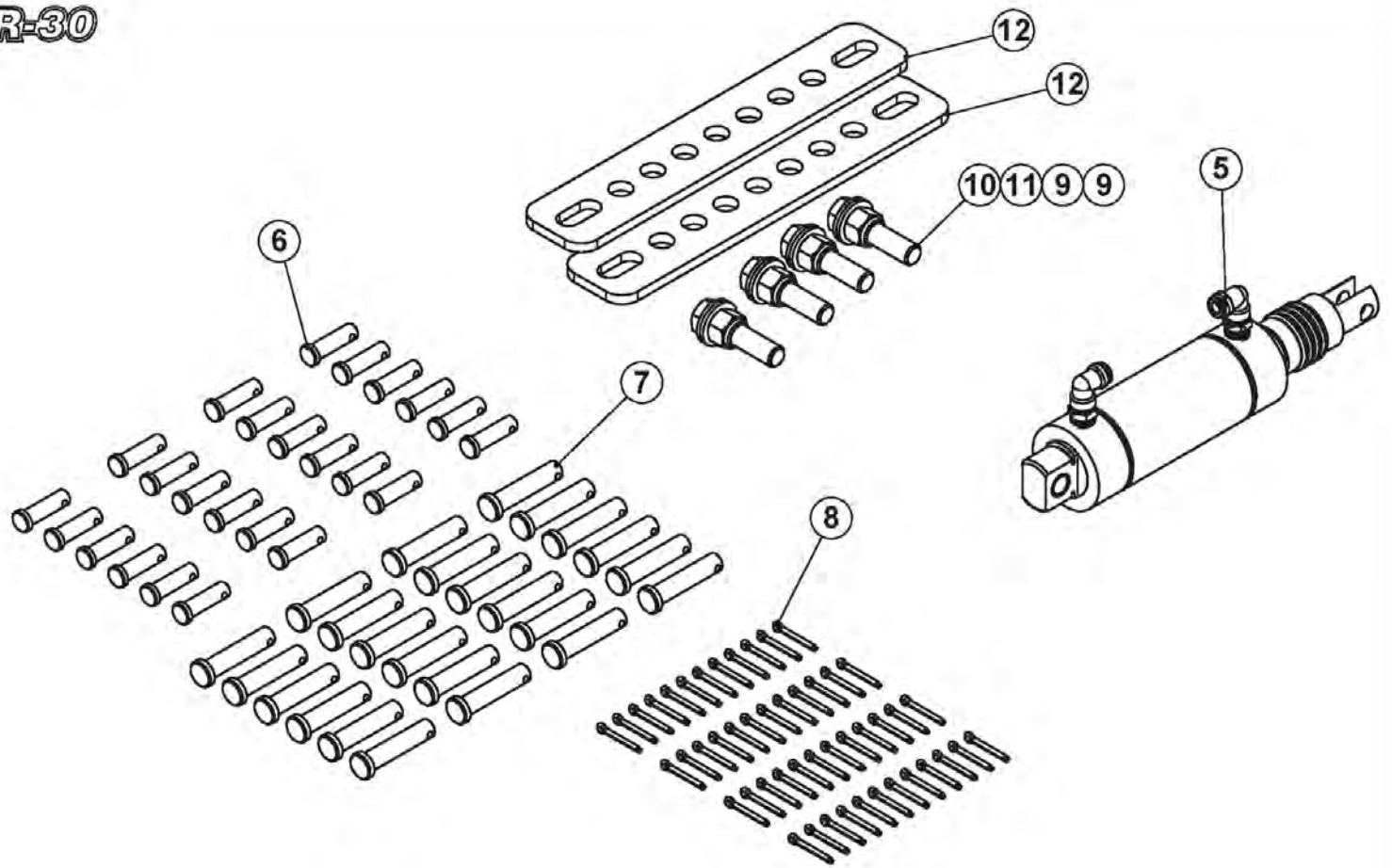
TA00674 Tee Jet Valve Assy

ITEM	PART NUMBER	DESCRIPTION	QTY	TORQUE (ft-lbs)
1	TA00674	Tee Jet Valve Assy	1	
2	T0051529	Tee Jet Check Valve Assy	1	
3	T0051544	Hose Barb 1/4" FPT x 3/8" HB	1	
4	T0051531	Orifice - .047	1	
5	T0051532	Orifice Seal	1	
6	T0051530	TeeJet 1/4 Inch Hose Adaptor	1	

* Note: Item # 3 is not installed so that the end user may pick the preferred size orifice.

See your Titan Machinery dealer.

** Item # 5 is included with item # 6.

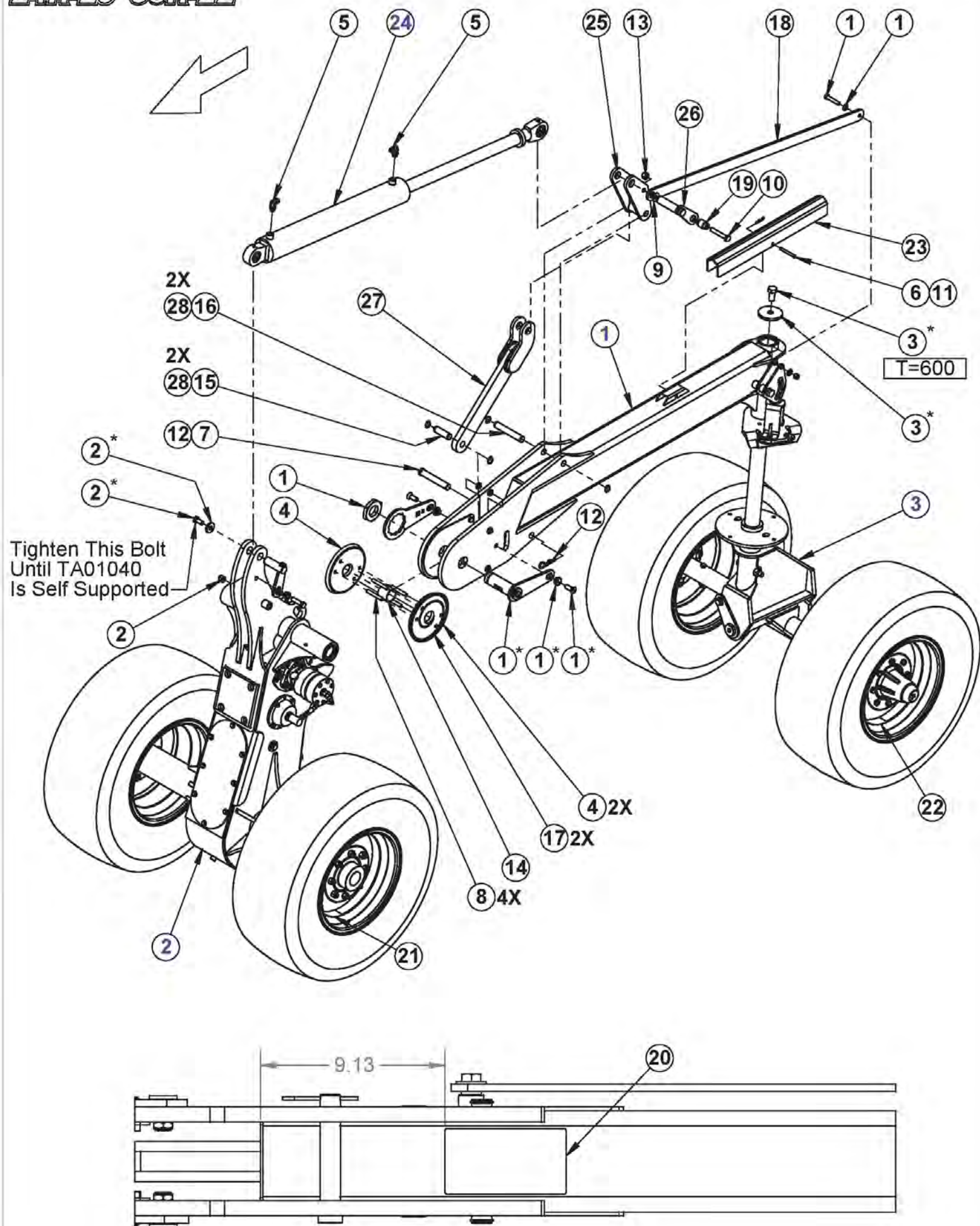


TA01788 Kit, 24-Row CleanSweep

ITEM	PART NUMBER	DESCRIPTION	QTY.	TORQUE (ft-lbs)
1	73368363	APEX Power Extension - 15'	1	
2	73368369	Kit, APEX CleanSweep Power Adapter	1	
3	73368387	Control Kit, Non-Airforce	1	
4	73368393	Tubing Kit, 24-Row	1	
5	73368395	CleanSweep Air Cylinder	24	
6	CLPIN-0.375X1.25C	Clevis Pin Ø3/8-1.25CZ	24	
7	CLPIN-0.438X2.00C	Clevis Pin, Ø7/16 X 2	24	
8	CTPIN-0.125X1.00	COTTER PIN, 1/8 X 1, SST	48	
9	FW-SAE-0.500Y	Washer, Flat SAE - 1/2-YZ	8	
10	HB-0.500-13X2.00Y8	Bolt, Hex Hd 1/2-13x2 YZ8	4	
11	NLNUT-0.500-13Y8	Nut, Nylock 1/2-13 YZ8	4	
12	T0054513	Plate, Compressor Mounting	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.

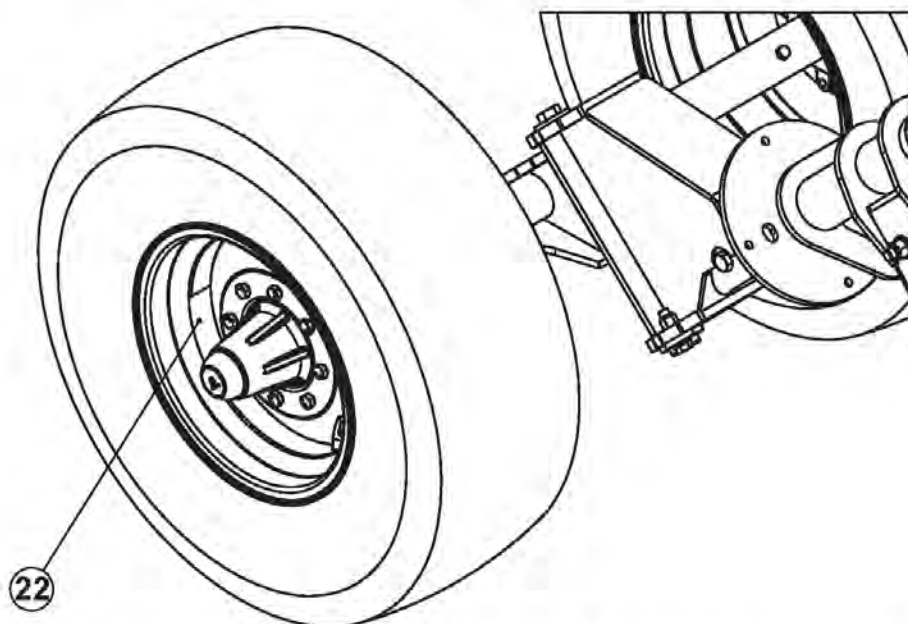


TA01376 Wing Wheel Assy

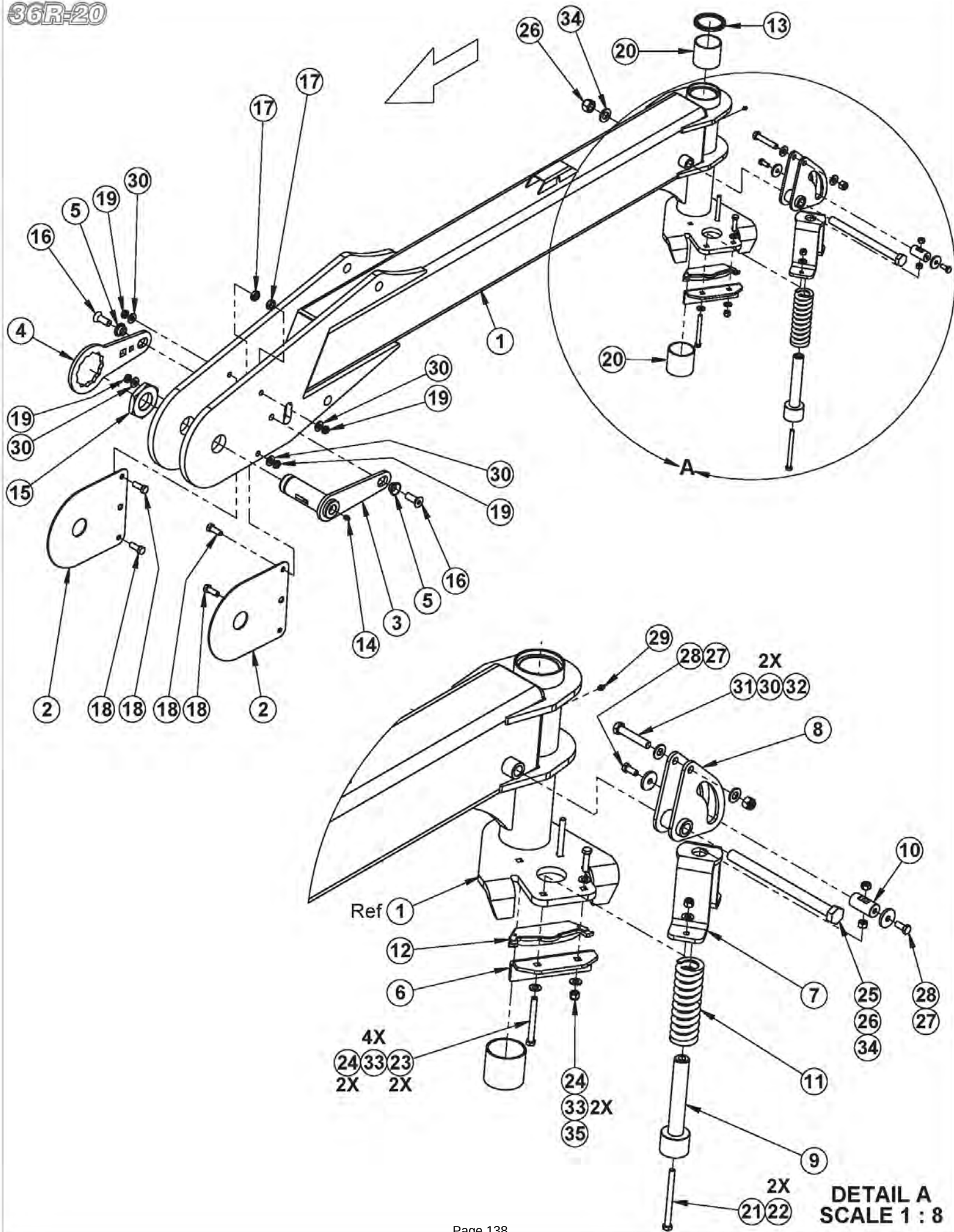
ITEM	PART NUMBER	DESCRIPTION	QTY.	TORQUE (ft-lbs)
1	TA01291	Rear Caster Arm Assy	1	
2	TA01374	Assy, Wing Wheel Drive	1	
3	TA01375	Rear Caster Wheel Assembly	1	600
4	433478A1	Seal, Rubber	2	
5	AD-08MJ-08MB-90	ADAPTER 08MJ-08MB 90	2	
6	CLPIN-0.375X3.25Y	Clevis Pin, Ø3/8" X 3-1/4 YZ	1	
7	CLPIN-1.000X6.00Y	Clevis Pin, Ø1" X 6" YZ	1	
8	DPIN-0.500X3.500C	Dowell Pin, Ø1/2"x3-1/2	4	
9	FW-USS-0.563Y	Washer, Flat USS 9/16"-YZ	1	
10	HB-0.625-11X3.50Y8	Bolt, Hex Hd-5/8-11x3-1/2-YZ8	1	
11	HPINCLIP-0.313 YZ	Hair Pin Clip-Ø5/16" YZ	1	
12	HPINCLIP-1.000Y	Hair Pin Clip-Ø1.0000" YZ	1	
13	NLNUT-0.625-11Y8	Nut, Nylock-5/8-11-YZ8	1	
14	PB-2.000X2.25X2.00	Polylube Bush, Ø2.00xØ2.25x2.00	1	
15	PIN-1.000X2.88Y	PIN-1.000X2.88Y	1	
16	PIN-1.000X5.75Y	Pin-1.0000x5.750-YZ	1	
17	T0051869	Plate, Grease Friction	2	
18	T0053694	Link, Brake Release	1	
19	T0053703	Standoff, Brake Link	1	
20	T0053939	Decal, Warn Crsh Wng Whl Set	1	
21	T0055226	Decal, 20 psi & 175 Lug Torque	2	
22	T0054284	Decal, 20 psi & 140 Lug Torque	2	
23	T0054600	Channel - Wing Cylinder Stop	1	
24	TA01182	Cylinder, Hyd 3.75X26.75 Reph	1	
25	TW000903	Wdmt, Link	1	
26	TW000905	Pin Weldment	1	
27	TW000919	Wdmt, Dogbone Link	1	
28	SRING-EXT-HD-1.00Y	SRING-EXT-HD-1.00Y	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.



Note: Install decal as shown on wheel rims facing outwards 4 places.

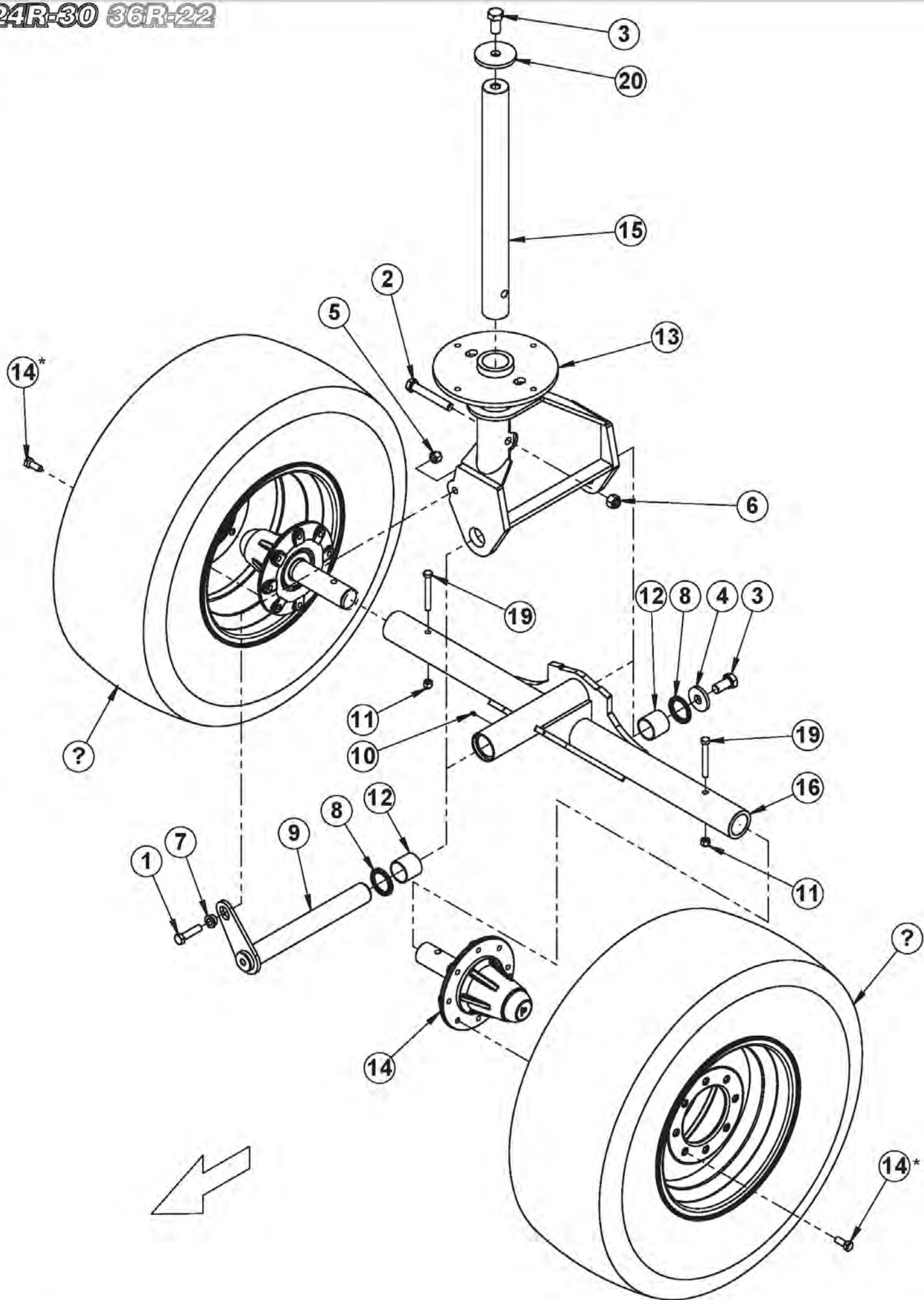


TA01291 Rear Caster Arm Assy

ITEM	PART NUMBER	DESCRIPTION	QTY	TORQUE (ft-lbs)
1	TW000978	Wldmt, Rear Wing Wheel Arm	1	
2	T0051868	Plate, Friction Wear	2	
3	TW001201	Pin Weldment	1	
4	T0054628	Plate, Locking 12Pt	1	
5	T0054627	Anti Rotation Insert	2	
6	T0053697	Bracket, Brake Pad Retainer	1	
7	T0053696	Bracket, Spring Retainer	1	
8	TW000986	Wldmt, Spring Release	1	
9	T0053701	Piston	1	
10	T0053700	Anchor	1	
11	T0053702	Spring, Compression	1	
12	T0053706	Brake Pad Piston Side	1	
13	T0051584	2.50 Grease Seal	1	
14	ZERK-0.125-27-NPT	Zerk,-1/8-27-NPT	1	
15	JNUT-2.0-12x.60Y5	JNut-2.0000-12 x .60-YZ8	1	
16	FHSCS-0.625-11X1.75Y8	FHSHCS 5/8-11x1-3/4-YZ	2	
17	NLJNUT-0.625-11Y8	Nut, Nylock Jam-5/8-11-YZ8	2	
18	HB-0.500-13X1.38Y8	Bolt, Hex Hd 1/2-13x1-3/8 YZ8	4	
19	NLJNUT-0.500-13Y8	Nut, Nylock Jam 1/2-13 YZ8	4	
20	PB-2.500X2.75X2.50	Bush, Polygon 2.500x2.75x2.50	2	
21	HBFT-0.375-16X4.50Y8	HBolt-0.3750-16x4.500-YZ8	1	
22	HNUT-0.375-16Y8	Nut, Hex 3/8-16 YZ8	2	
23	HBFT-0.375-16X3.50Y8	Bolt, Hex Hd 3/8-16x3-1/2FTYZ8	2	
24	NLNUT-0.375-16Y8	Nut, Nylock 3/8-16 YZ8	3	
25	HB-0.750-10X10.00Y8	Bolt, Hex Hd-3/4-10x10-YZ8	1	
26	NLNUT-0.750-10Y8	Nut, Nylock 3/4-10-YZ8	1	
27	HDWSH-0.375X1.375Y	HD Washer 0.375 x 1.375	2	
28	HB-0.375-16X0.88Y8	Bolt, Hex Hd 3/8-16x7/8-YZ8	2	
29	ZERK-0.250-28	Zerk, 1/4-28	1	
30	FW-SAE-0.500Y	Washer, Flat SAE - 1/2-YZ	6	
31	HB-0.500-13X2.75Y8	Bolt, Hex Hd 1/2-13x2-3/4 YZ8	1	
32	NLNUT-0.500-13Y8	Nut, Nylock 1/2-13 YZ8	1	
33	FW-SAE-0.375Y	Washer, Flat SAE 3/8" YZ	6	
34	FW-SAE-0.750Y	Washer, Flat-SAE 3/4 YZ	1	
35	HB-0.375-16X1.50Y8	Bolt, Hex Hd 3/8-16x1-1/2-YZ8	1	

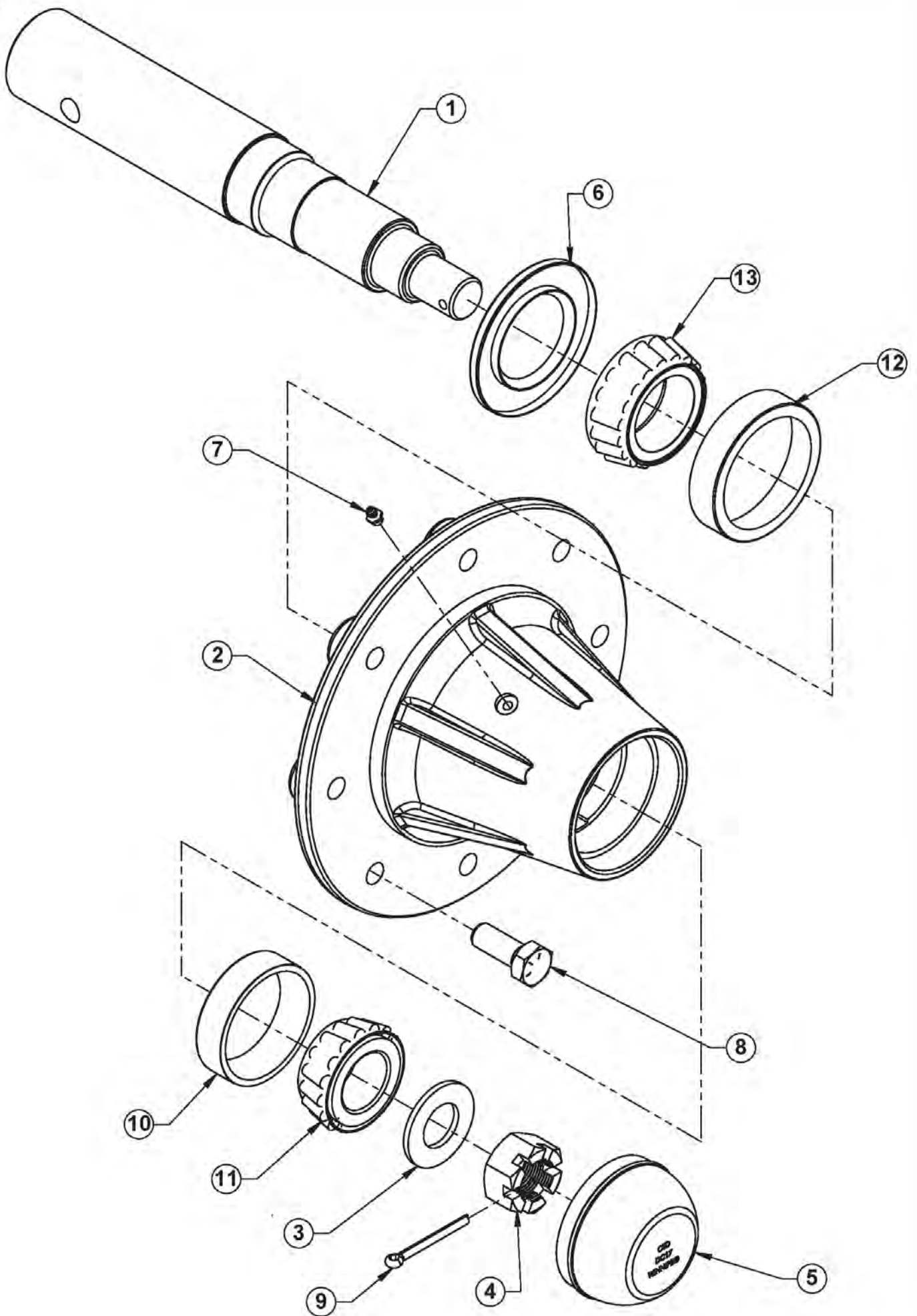
Note:

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.



TA01375 Rear Caster Wheel Assembly

ITEM	PART NUMBER	DESCRIPTION	QTY.	TORQUE (ft-lbs)
1	HB-0.625-11X2.50Y8	Bolt, Hex Head-5/8-11x2.5-YZ8	1	
2	HB-0.750-10X5.00Y8	Bolt, Hex Hd 3/4-10x5-YZ8	1	
3	HB-0.875-9X1.75Y8	Bolt, Hex Hd 7/8-9x1-3/4-YZ8	2	
4	HDWSH-0.89X2.50Y	HD Washer 0.89 x 2.50	1	
5	NLNUT-0.625-11Y8	Nut, Nylock-5/8-11-YZ8	1	
6	NLNUT-0.750-10Y8	Nut, Nylock 3/4-10-YZ8	1	
7	T0050854	Anti Rotation Insert	1	
8	T0051585	2.00 Grease Seal	2	
9	TW000794	Pin Weldment	1	
10	ZERK-0.250-28	Zerk, 1/4-28	1	
11	NLNUT-0.500-13Y8	Nut, Nylock 1/2-13 YZ8	2	
12	PB-2.000X2.25X2.00	Polylube Bush, Ø2.00xØ2.25x2.00	2	
13	TW000979	Wldmt, Rear Caster	1	
14	TA01205	Assy, 8 Bolt Hub & Spindle	2	
15	T0053628	Caster Shaft	1	
16	TW001228	Wldmt, Rear Caster Axle	1	
17	TA01372	Wheel Assy	1	
18	TA01371	Wheel Assy	1	
19	HB-0.500-13X4.00Y8	Bolt, Hex Hd 1/2-13x4 YZ8	2	
20	HDWSH-0.89X4.00Y	HD Washer .875 x 4.0	1	

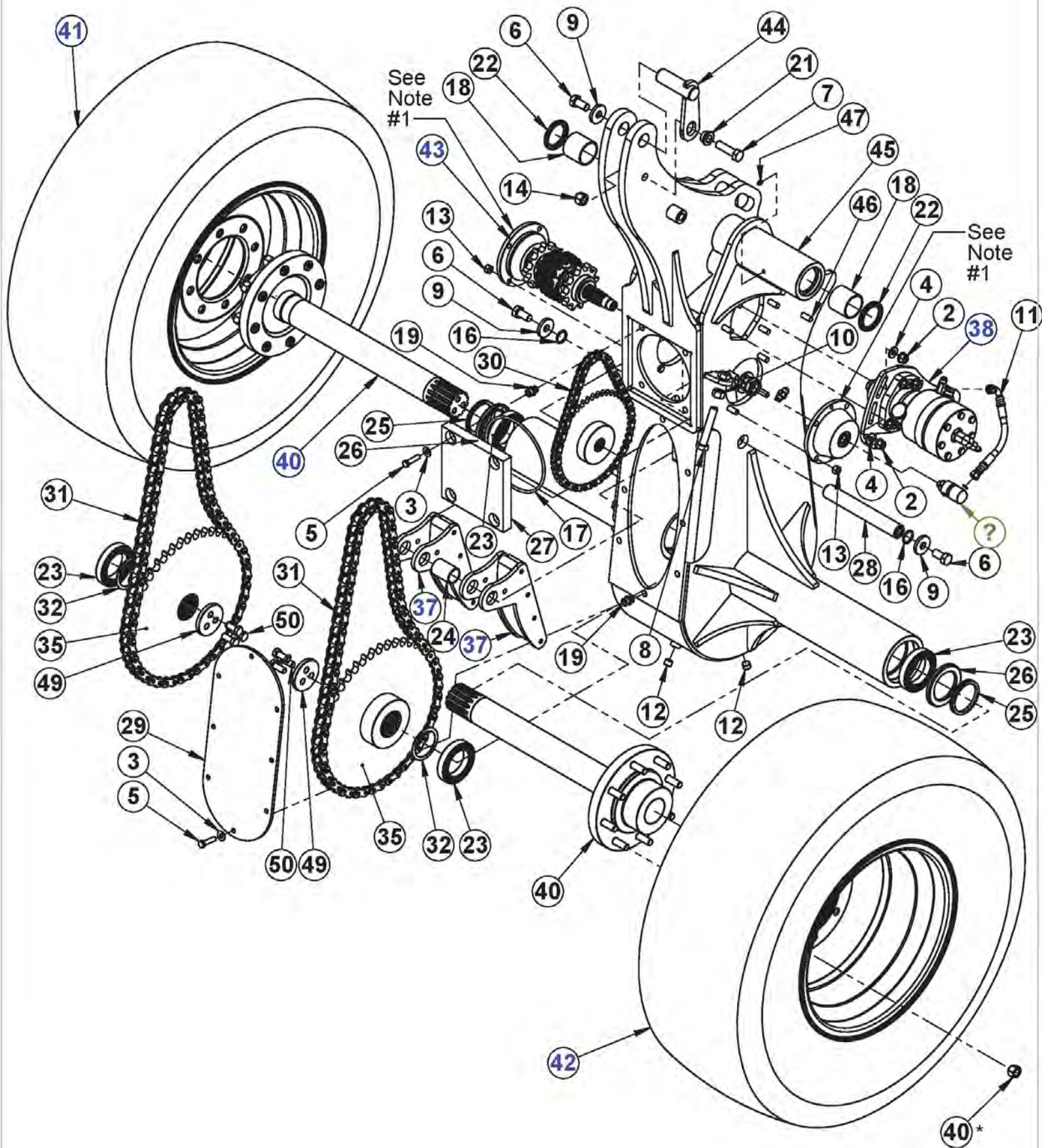


TA01205 Assy, 8 Bolt Hub & Spindle

ITEM	PART NUMBER	DESCRIPTION	QTY.	TORQUE (ft-lbs)
1	T0054387	Spindle, Rear Caster	1	
2	T0054388	Hub, 8 Bolt	1	
3	FW-2.000X1.06C	Washer, Flat 2 X 1-1/16-CZ	1	
4	SHN-1.000-14C5	Nut, Slotted Hex 1.00-14 CZ5	1	
5	T0054386	Cap, Ag Dust	1	
6	T0054389	Seal	1	
7	ZERK-0.250-28	Zerk, 1/4-28	1	
8	WB-0.563-20X1.25C5	Wheel Bolt, 9/16-18X1-1/4 C5	8	
9	CTPIN-0.188X2.00	COTTER PIN, 1/8 X 1, SST	1	
10	T0054393	Bearing Race, Outer	1	
11	T0054392	Bearing, Outer	1	
12	T0054391	Bearing Race, Inner	1	
13	T0054390	Bearing, Inner	1	

Notes:

1. ** Use Case IH AkcelA Multi-Purpose Grease 251H EP or equivalent. Use P/N 87298944 251H EP Multi-Purpose Grease 35 Lbs (15.9 L) or, 132096A1 251H EP Multi-Purpose Grease 14 OZ Tube.

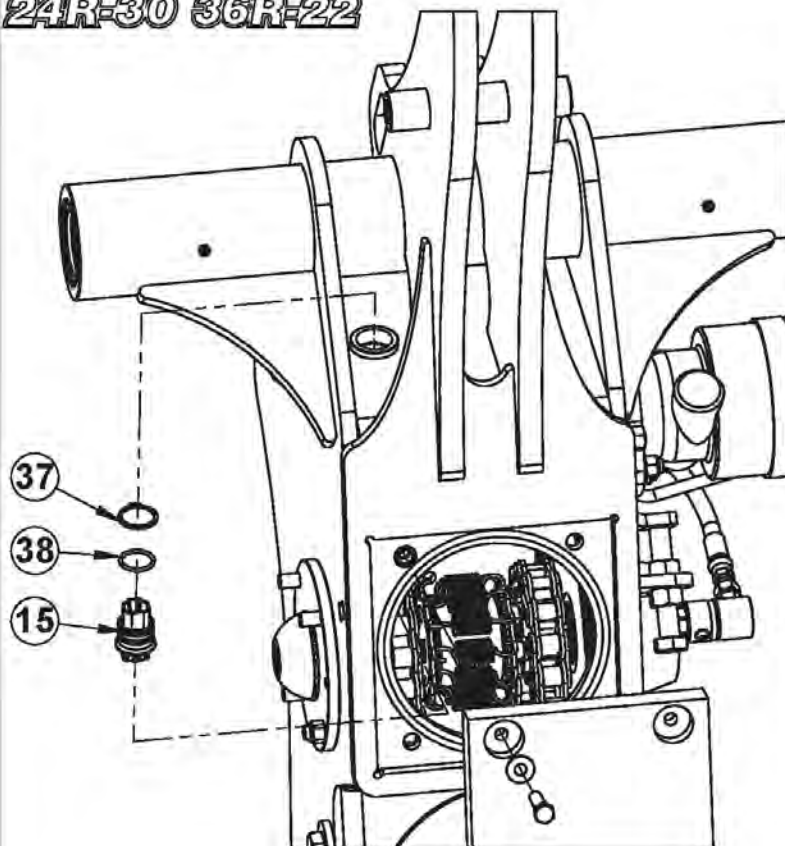


TA01374 Assy, Wing Wheel Drive

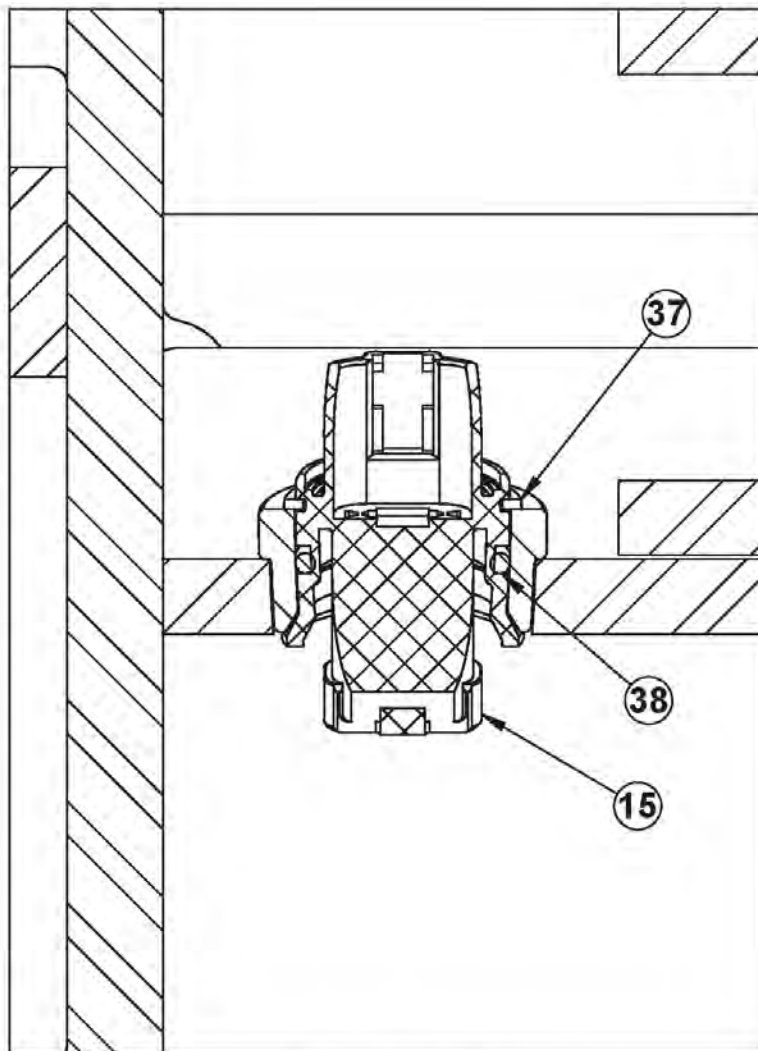
ITEM	PART NUMBER	DESCRIPTION	QTY	TORQUE (ft-lbs)
2	FLTLN-0.438-20C8	Nut, TL Hex Flange 7/16-20 CZ8	5	80
3	FW-USS-0.313Y	Washer, Flat USS 5/16-YZ	12	
4	FW-USS-0.375YTH	Washer, FI 3/8 USS Th-Hrd YZ	5	
6	HB-0.625-11X1.25Y8	Bolt, Hex Head-5/8-11x1.25-YZ8	3	
7	HB-0.625-11X2.25Y8	Bolt, Hex Head-5/8-11x2.25-YZ8	1	
9	HDWSH-0.64X1.75Y	HD Washer 0.64 x 1.75	3	
11	HS04-009-06FJ-06FJ90-A	Hose 0.25-009-06FJX-06FJX90-A (D6)	1	
12	HSPLUG-0.375-NPTFC	Plug, Hex Skt 3/8-18 NPTF CZ	2	
13	NLNUT-0.438-20Y8	NLNut-7/16-20-YZ8	8	
14	NLNUT-0.625-11Y8	Nut, Nylock-5/8-11-YZ8	1	
16	ORING-1.250X.125	O-Ring, Ø1-1/4OD X Ø1/8	2	
17	ORING-7.375X.188-N	O-Ring, Ø7.38ODxØ.188 Nitrile	1	
18	PB-2.000X2.25X2.00	Polylube Bush, Ø2.00xØ2.25x2.00	2	
19	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	
34	T0054317	Adapter, 06MB-06FB-90 Swivel	1	
35	T0055821	Sprocket, 45T #80 Machined	2	
36	TA00761	Wheel Assy (36R-20 Models)(Not Shown)	1	
37	TA01089	Tensioner, Wheel Drive	2	
38	TA01115	Motor Drive Assy	1	
39	TA01179	Wheel Assy (36R-20 Models)(Not Shown)	1	
40	TA01920	Assy, 22/30 Wing Wheel Hub	2	
41	TA01371	Wheel Assy	1	
42	TA01372	Wheel Assy	1	
43	TA01388	Assy, Diff Lock Shaft	1	
44	TW001106	Pin Weldment	1	
45	TW001227	Wldmt, 22/30 Front Wing Wheel	1	
46	WS-0.438-20X1.5C8	Stud, Wheel 7/16-20x1.5 CZ	13	
47	ZERK-0.250-28	Zerk, 1/4-28	2	
48	AD-06MJ-06MB	ADAPTER 06MJ-06MB	1	
49	T0055980	Washer, 3 Bolt Drive Axle	2	
50	HB-0.500-13X1.25Y8	Bolt, Hex Hd 1/2-13x1-1/4 YZ8	6	

Notes:

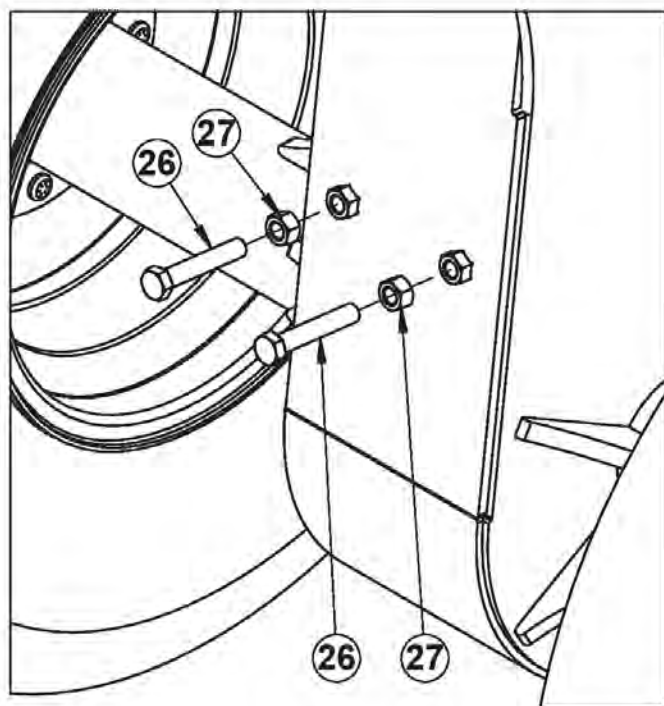
1. See exploded assembly TA01388 for assembly procedure.
2. TL = Apply Threadlocker Loctite 242 or Equivalent
3. T = Torque Expressed in ft-lbs (Use standard torque values from drawing T0000000 unless otherwise specified.
4. * Items marked with an asterisk are items that are included in that particular part or assembly.



1. Assemble item # 43 to item item # 17.
2. Then assemble to the bung hole from the inside.
3. Assemble item # 42 from the outside.

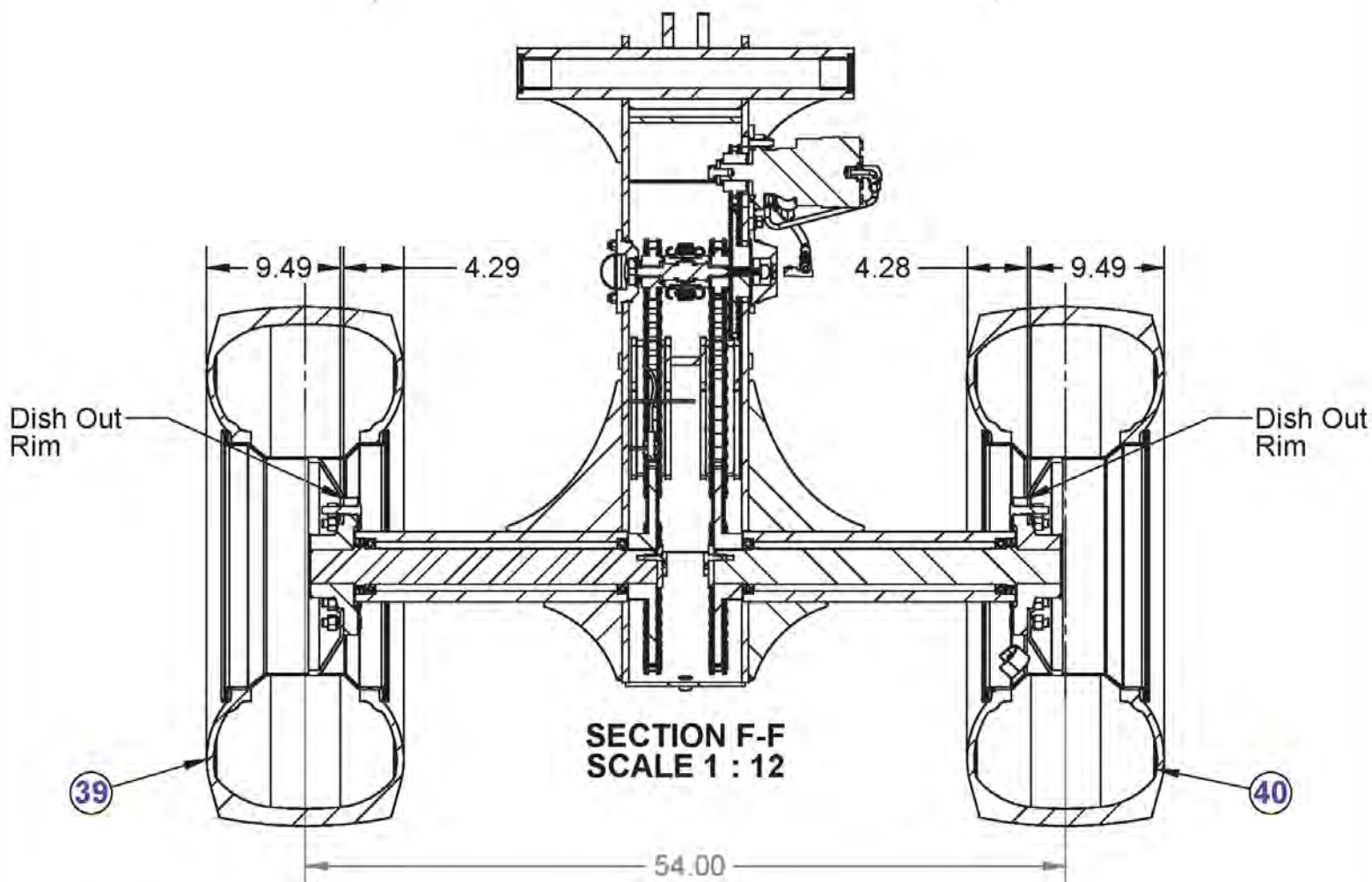
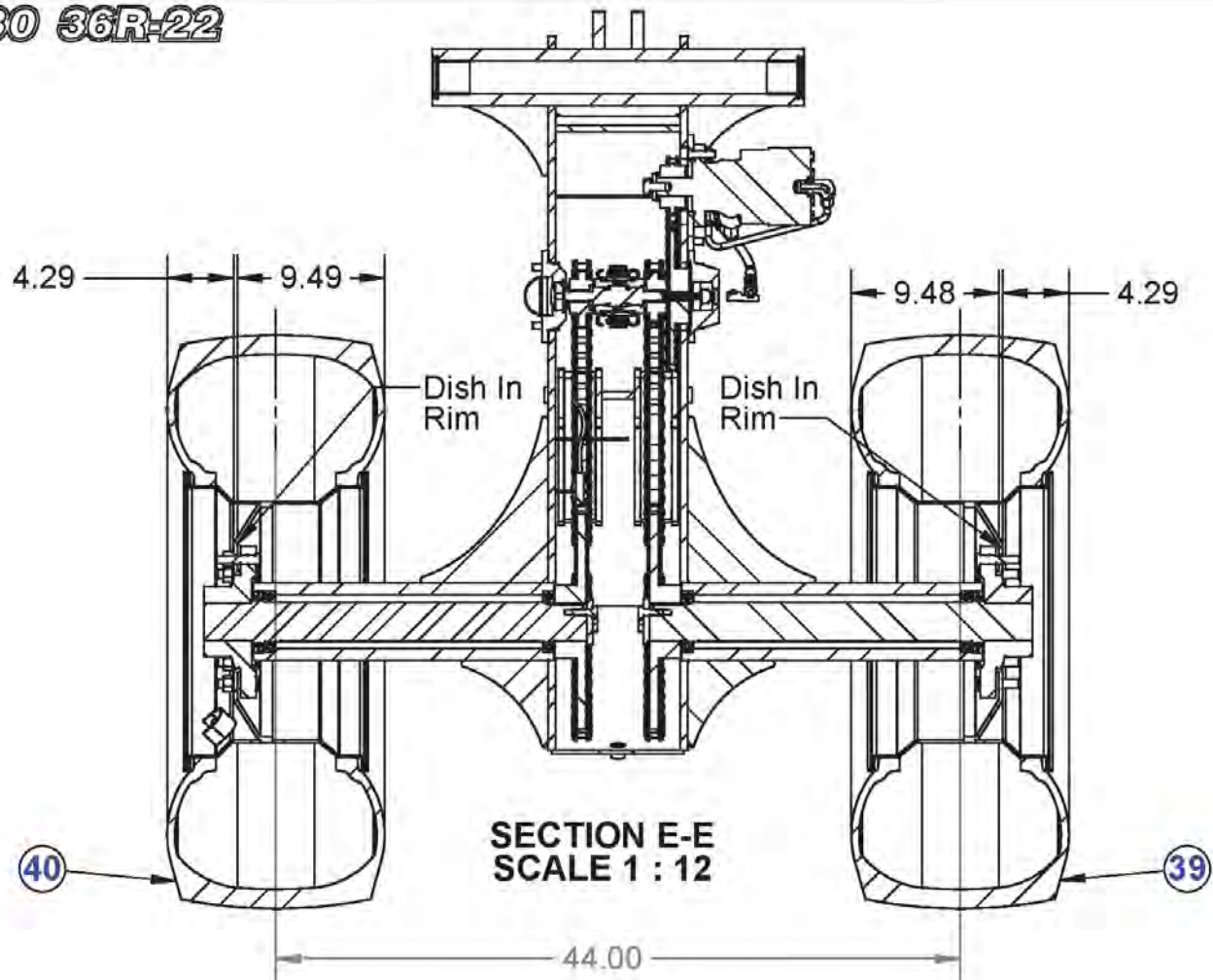


Assembled View



TA01374 Assy, Wing Wheel Drive

ITEM	PART NUMBER	DESCRIPTION	QTY	TORQUE (ft-lbs)
15	T0054293	Harness, Wheel Drive	1	
26	HBFT-0.625-11X3.50Y8	HBolt-0.6250-11x3.500-FT-YZ8	3	
27	HNUT-0.625-11Y8	Nut, Hex 5/8-11 YZ8	3	
37	SRING-EXT-1.13Y	Ring, Retaining Ext-1.125"	1	
38	ORING-1.130X.103	O-Ring, Ø1.130OD X Ø.103	1	
48	AD-06MJ-06MB	ADAPTER 06MJ-06MB	1	
49	T0055980	Washer, 3 Bolt Drive Axle	2	
50	HB-0.500-13X1.25Y8	Bolt, Hex Hd 1/2-13x1-1/4 YZ8	6	

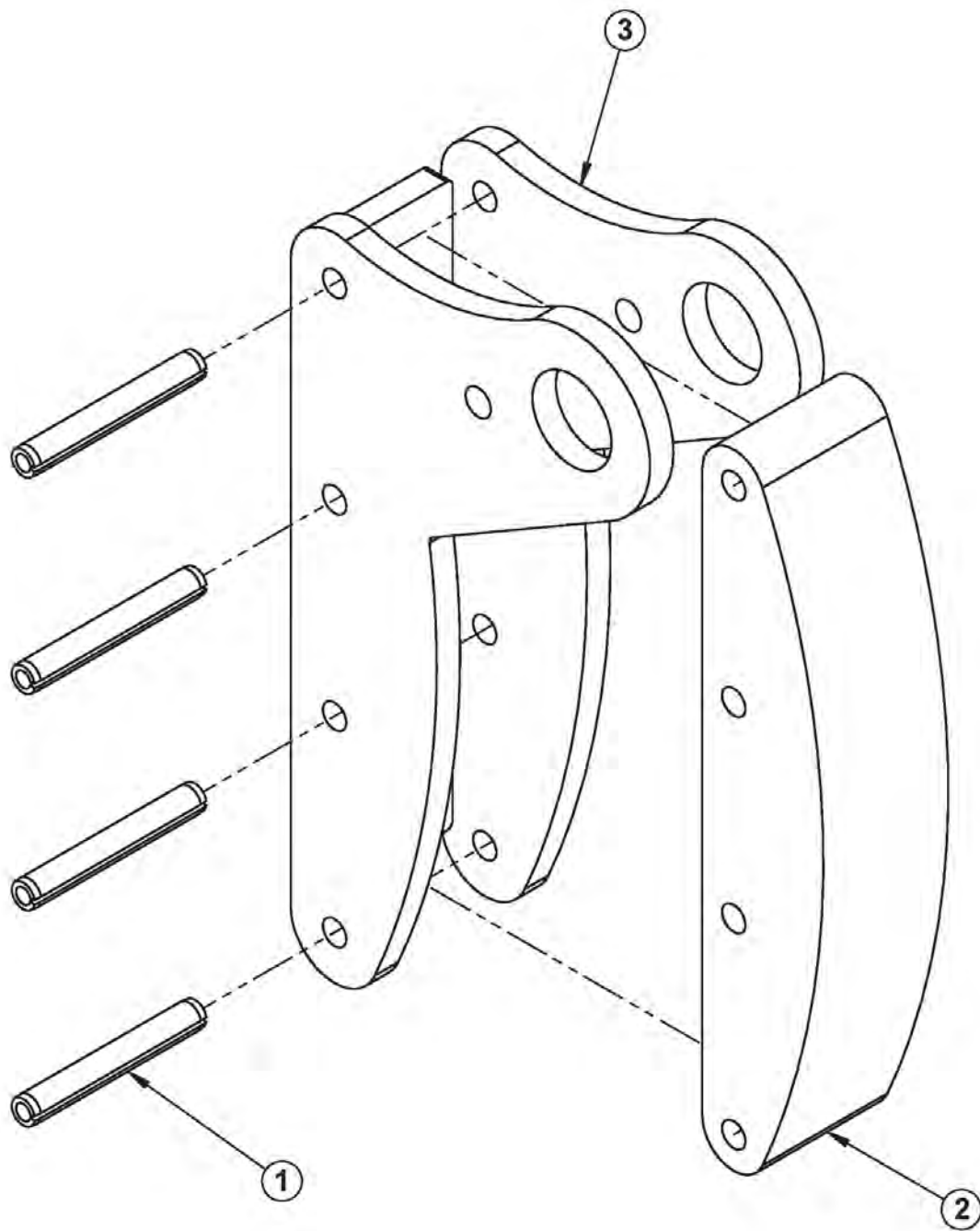


TA01374 Assy, Wing Wheel Drive (22" Row Spacing 36R-22)

ITEM	PART NUMBER	DESCRIPTION	QTY.	TORQUE (ft-lbs)
39	TA01371	Wheel Assy	1	
40	TA01372	Wheel Assy	1	
46	AD-06MJ-06MB	ADAPTER 06MJ-06MB	1	
47	T0055980	Washer, 3 Bolt Drive Axle	2	
48	HB-0.500-13X1.25Y8	Bolt, Hex Hd 1/2-13x1-1/4 YZ8	6	

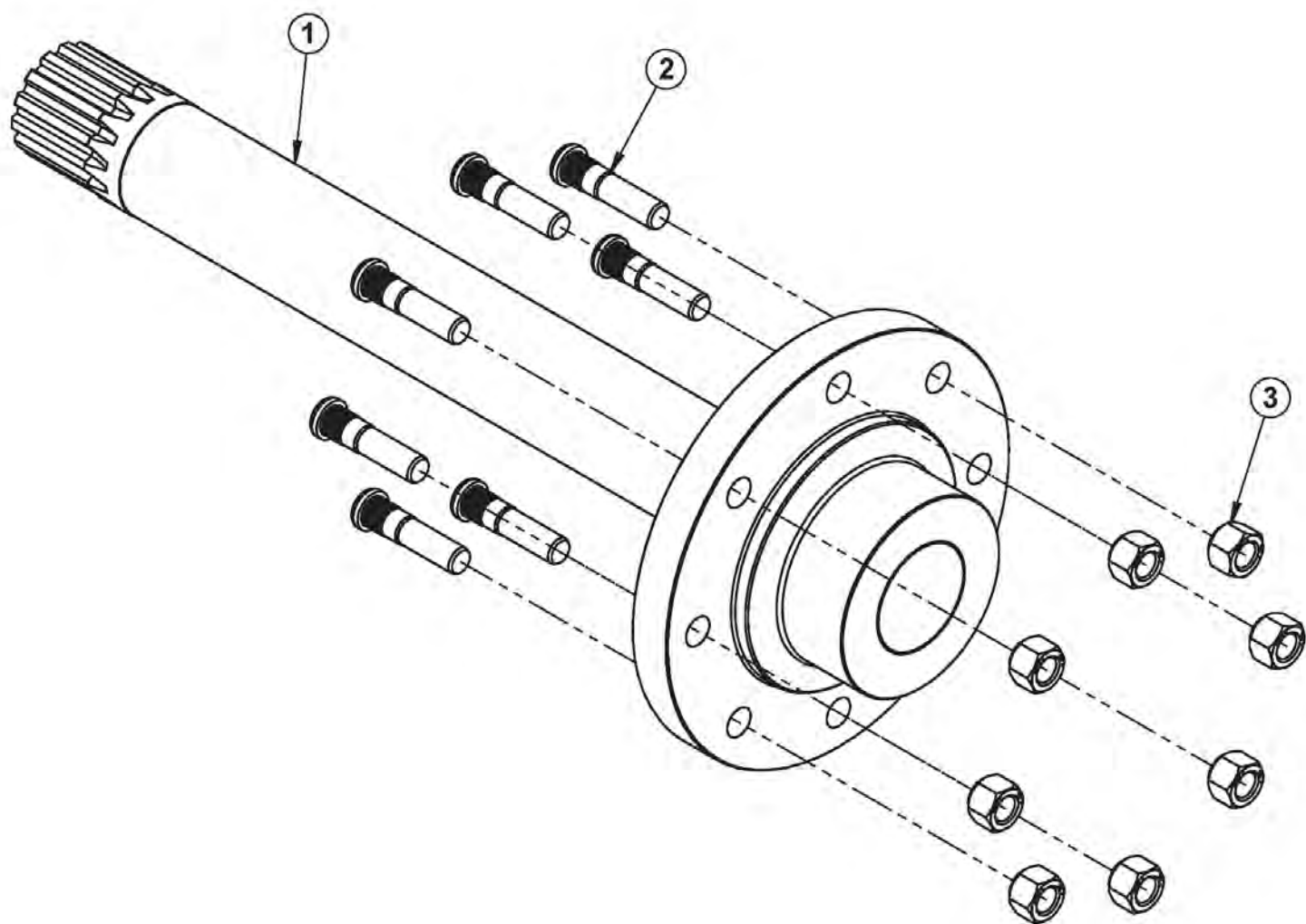
TA01374 Assy, Wing Wheel Drive (30" Row Spacing 24R-30)

ITEM	PART NUMBER	DESCRIPTION	QTY.	TORQUE (ft-lbs)
39	TA01371	Wheel Assy	1	
40	TA01372	Wheel Assy	1	
46	AD-06MJ-06MB	ADAPTER 06MJ-06MB	1	
47	T0055980	Washer, 3 Bolt Drive Axle	2	
48	HB-0.500-13X1.25Y8	Bolt, Hex Hd 1/2-13x1-1/4 YZ8	6	



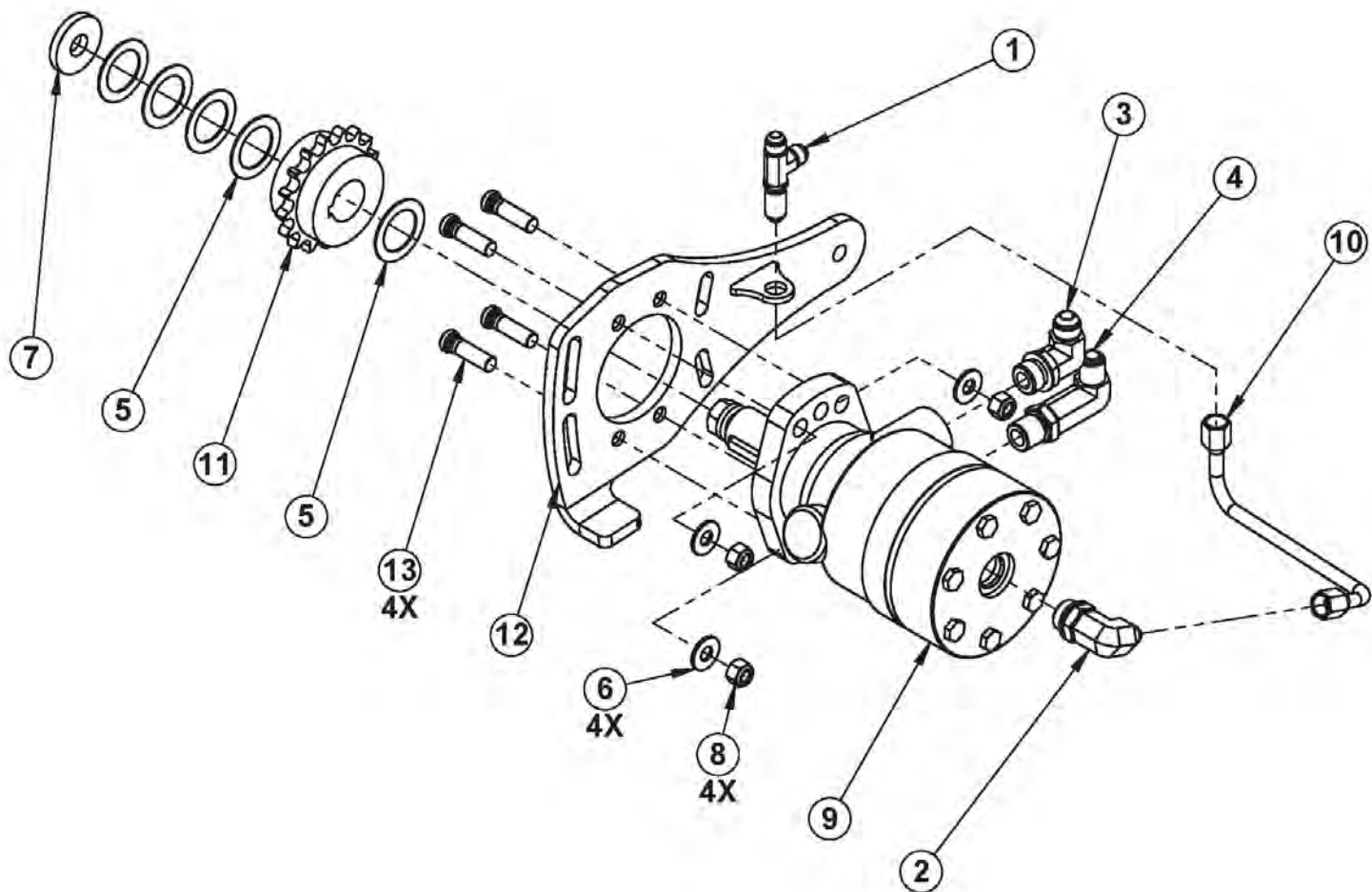
TA01089 Tensioner, Wheel Drive

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	



TA01370 Hub Assy

ITEM	PART NUMBER	DESCRIPTION	QTY.	TORQUE (ft-lbs)
1	TW001225	Axle, 22/30 Wing Wheel	1	
2	WS-0.625-18X2.50C8	Stud, Wheel 5/8-18 Gr8 CZ	8	
3	WHNUT-0.625-18C8	Nut, Wheel 5/8-18 Gr8 CZ	8	

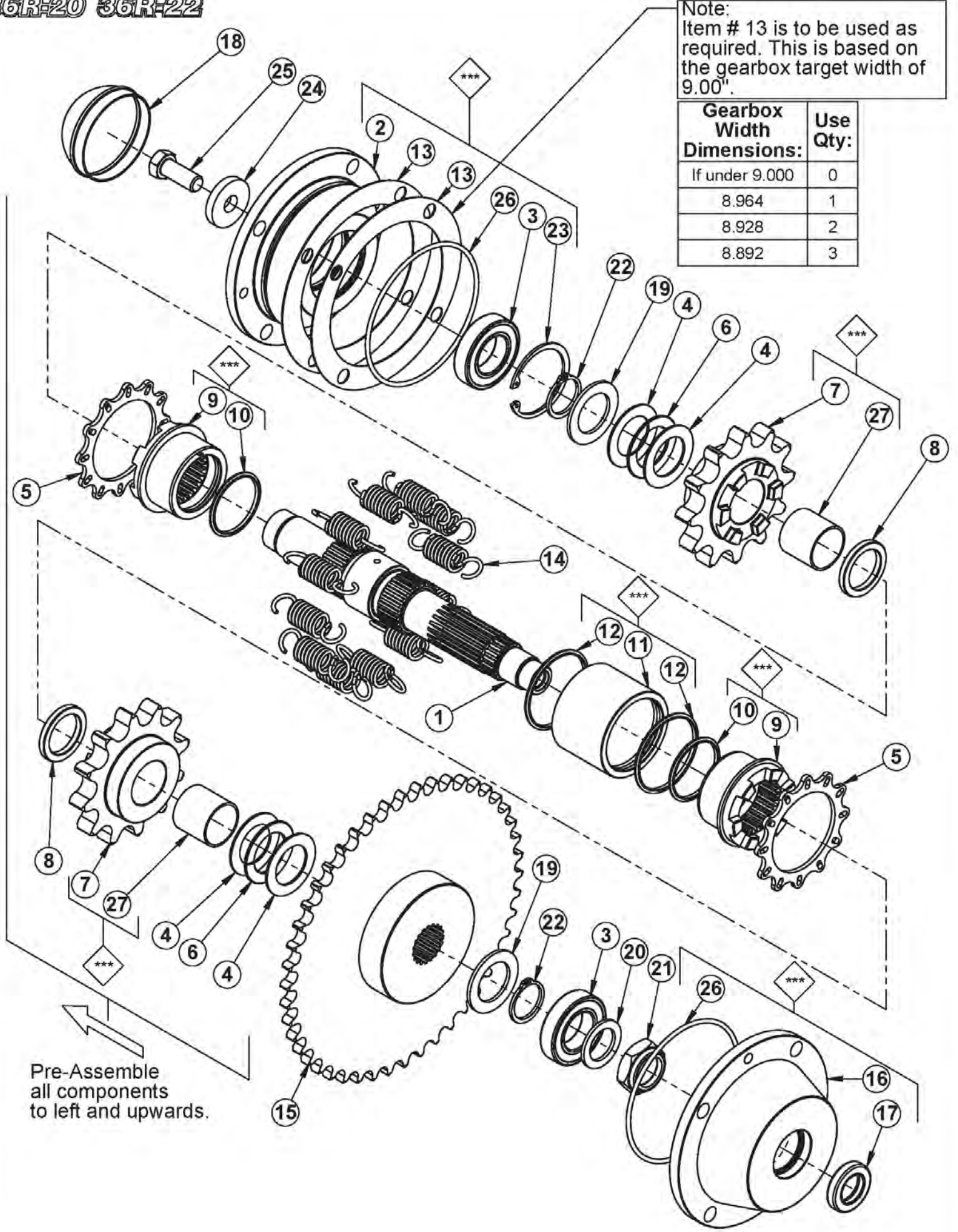


TA01115 Motor Drive Assy

ITEM	PART NUMBER	DESCRIPTION	QTY.	TORQUE (ft-lbs)
1	AD-06MJ-06MJ-06MJ-BHR	ADAPTER 06MJT BH RUN	1	
2	AD-06MJ-10MB-90	ADAPTER 06MJ-10MB 90	1	
3	AD-08MJ-10MB-90	ADAPTER 08MJ-10MB 90	1	
4	AD-08MJ-10MB-90LL	ADAPTER 08MJ-10MB 90LL	1	
5	FW-MB-1.250Y-18GA	Washer, Flat MB 1.250 18GA YZ	5	
6	FW-USS-0.375YTH	Washer, FI 3/8 USS Th-Hrd YZ	4	
7	HDWSH-0.64X1.75Y	HD Washer 0.64 x 1.75	1	
8	NLNUT-0.438-20Y8	NLNut-7/16-20-YZ8	4	
9	T0053927	Motor, Wheel Drive 260cc	1	
10	T0054357	Tube Assy, Wing Wheel	1	
11	T0055820	Sprocket, 17T #50 Machined	1	
12	TW001121	Wldmt, Motor Mount	1	
13	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

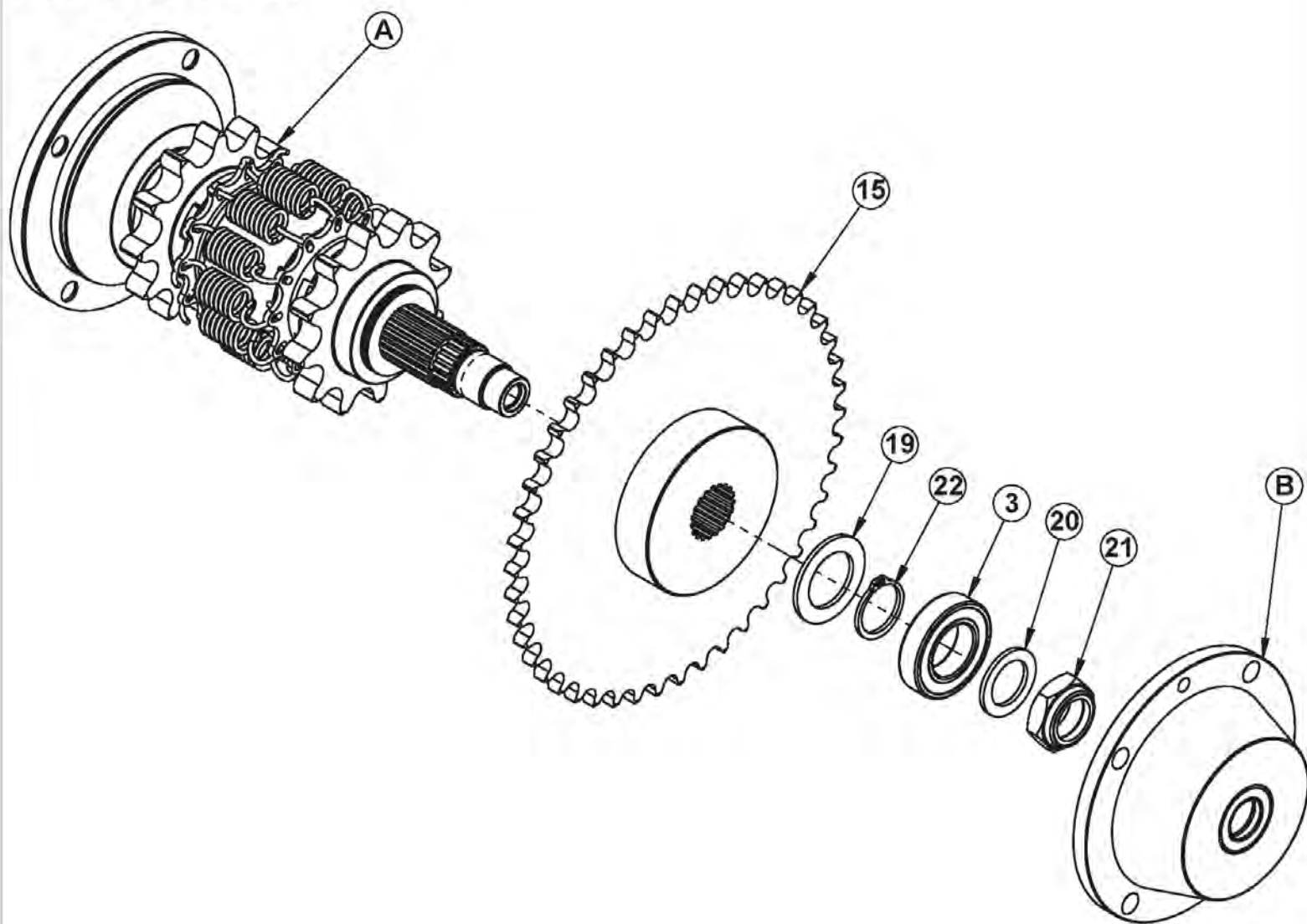


TA01388 Assy, Diff Lock Shaft (Sheet 1 of 2)

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

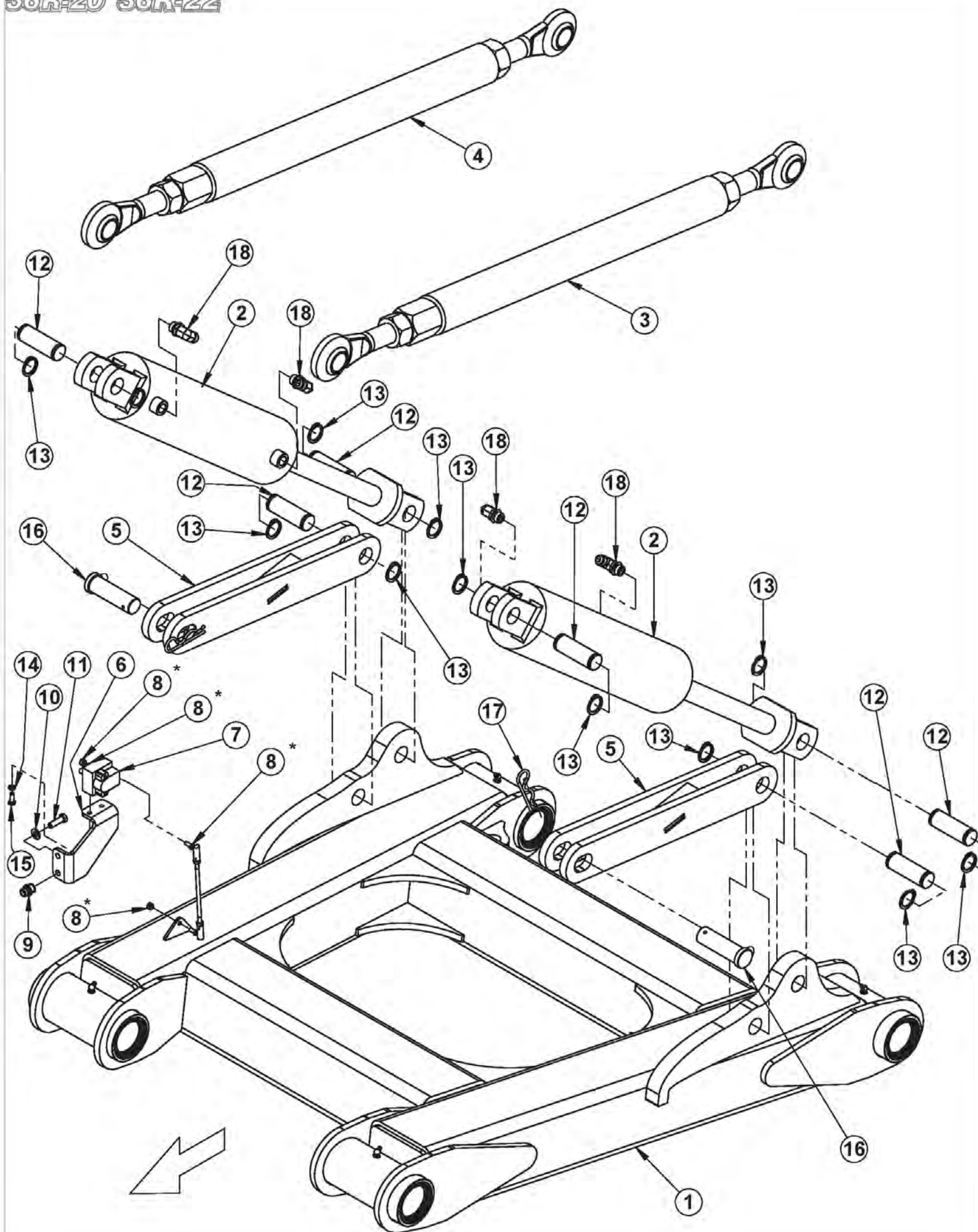
TA01388 Assy, Diff Lock Shaft (Sheet 2 of 2)

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

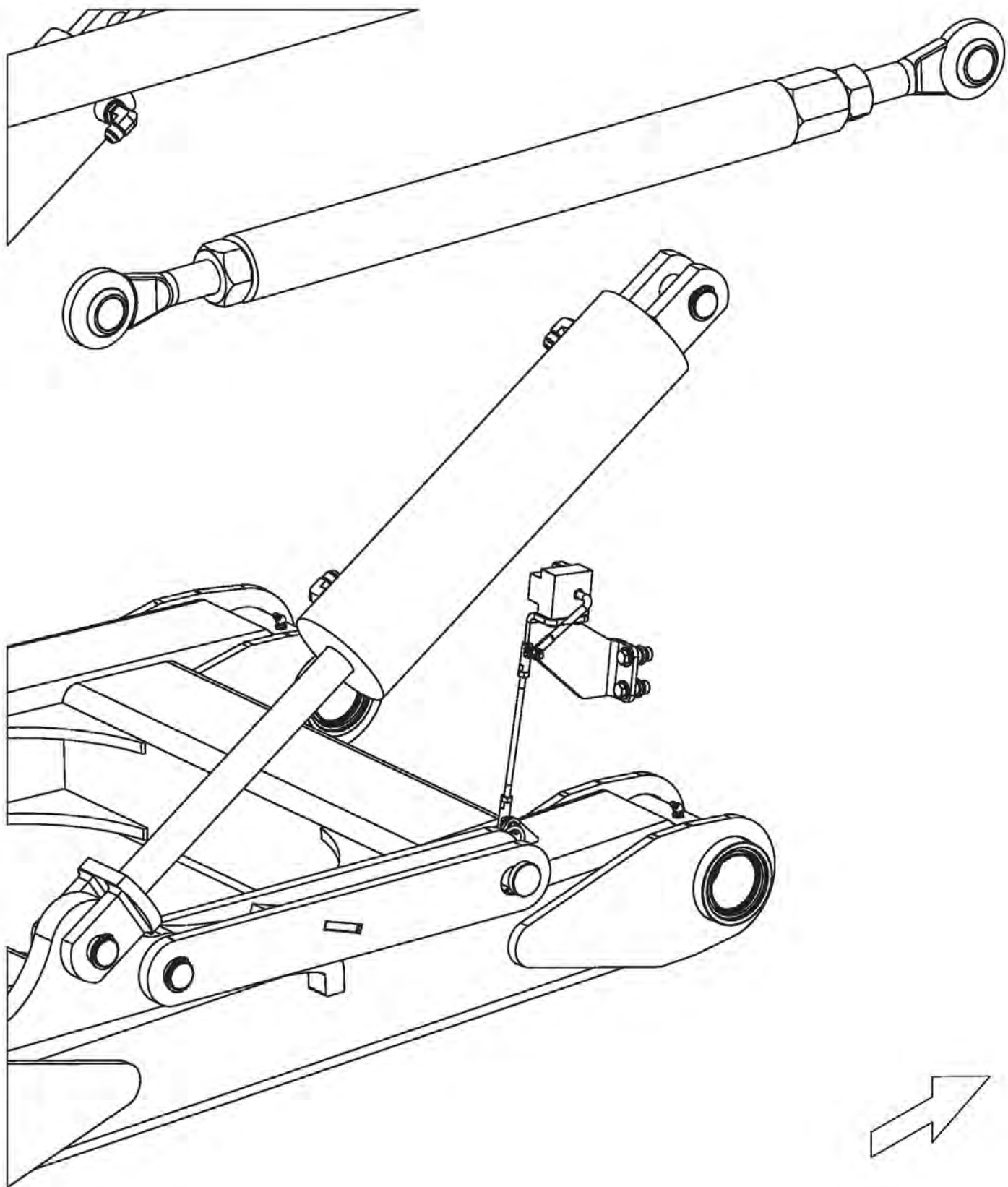


TA01206 Assy, Complete Lift

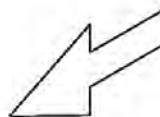
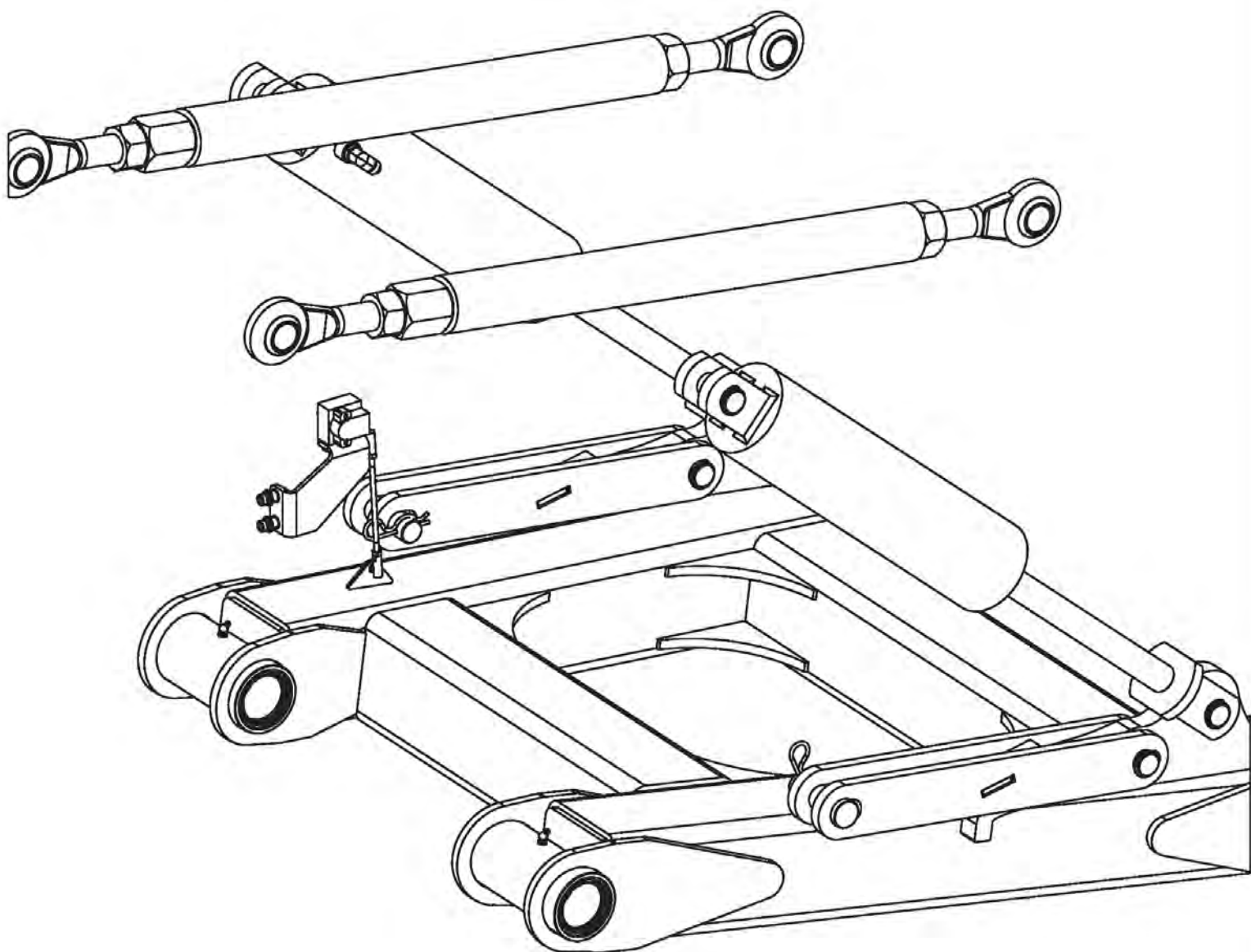
ITEM	PART NUMBER	DESCRIPTION	QTY.	TORQUE (ft-lbs)
1	TA01214	Assy, Main Lift	1	
2	TA01234	Cylinder, Hyd 4.5X14.00 Reph	2	
3	TA00613	Upper Link Assy	1	
4	TA00613	Upper Link Assy	1	
5	TW001171	Wldmt, Cylinder Stop Link	2	
6	T0053846	Bracket, Height Sensor	1	
7	404202A1	Sensor Rotary Position	1	
8	TA00630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

Note:

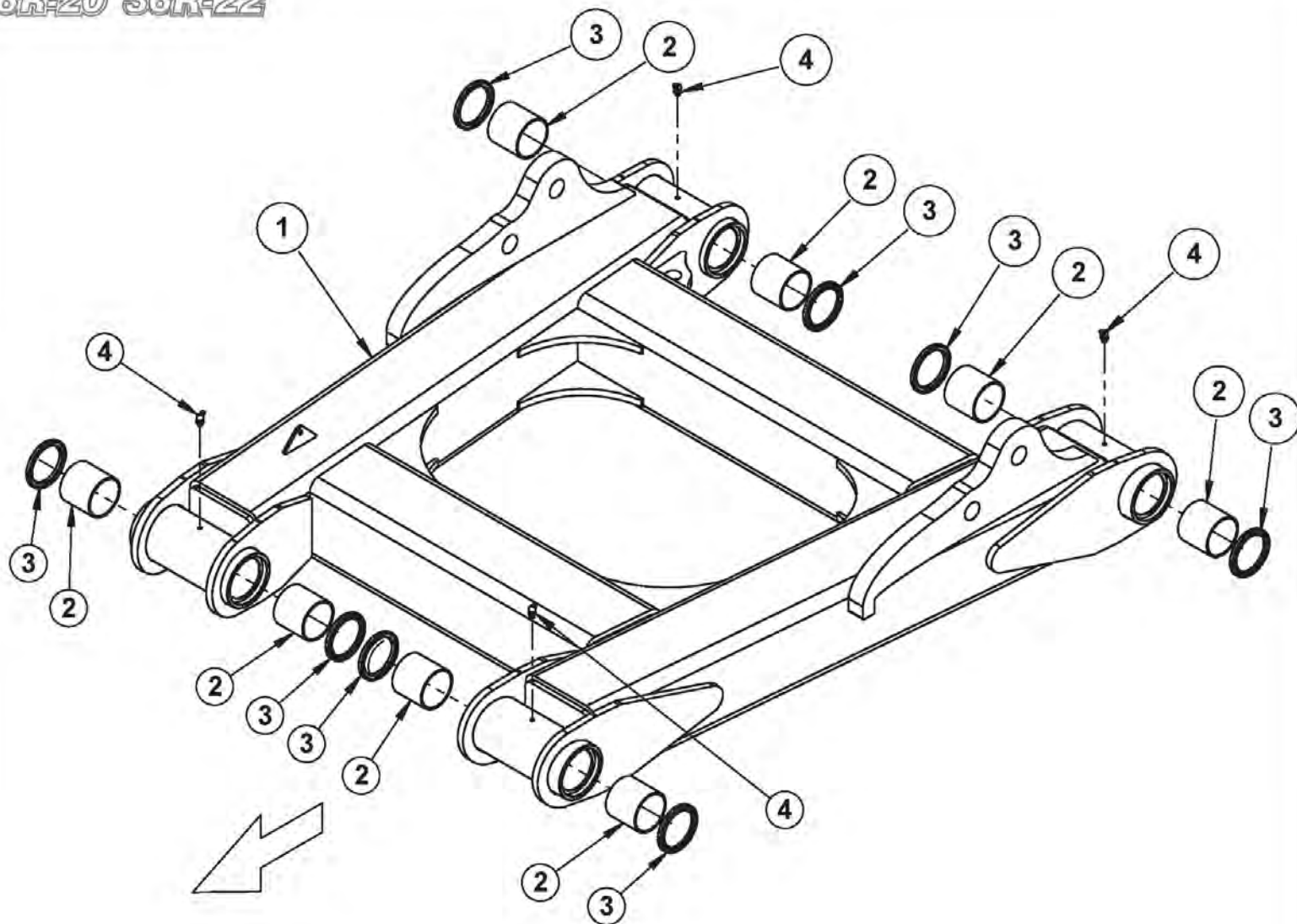
1. * Items marked with an asterisk are items that are included in that particular part or assembly.



Assembled View(Right Side of Machine)



Assembled View(Left Side of Machine)

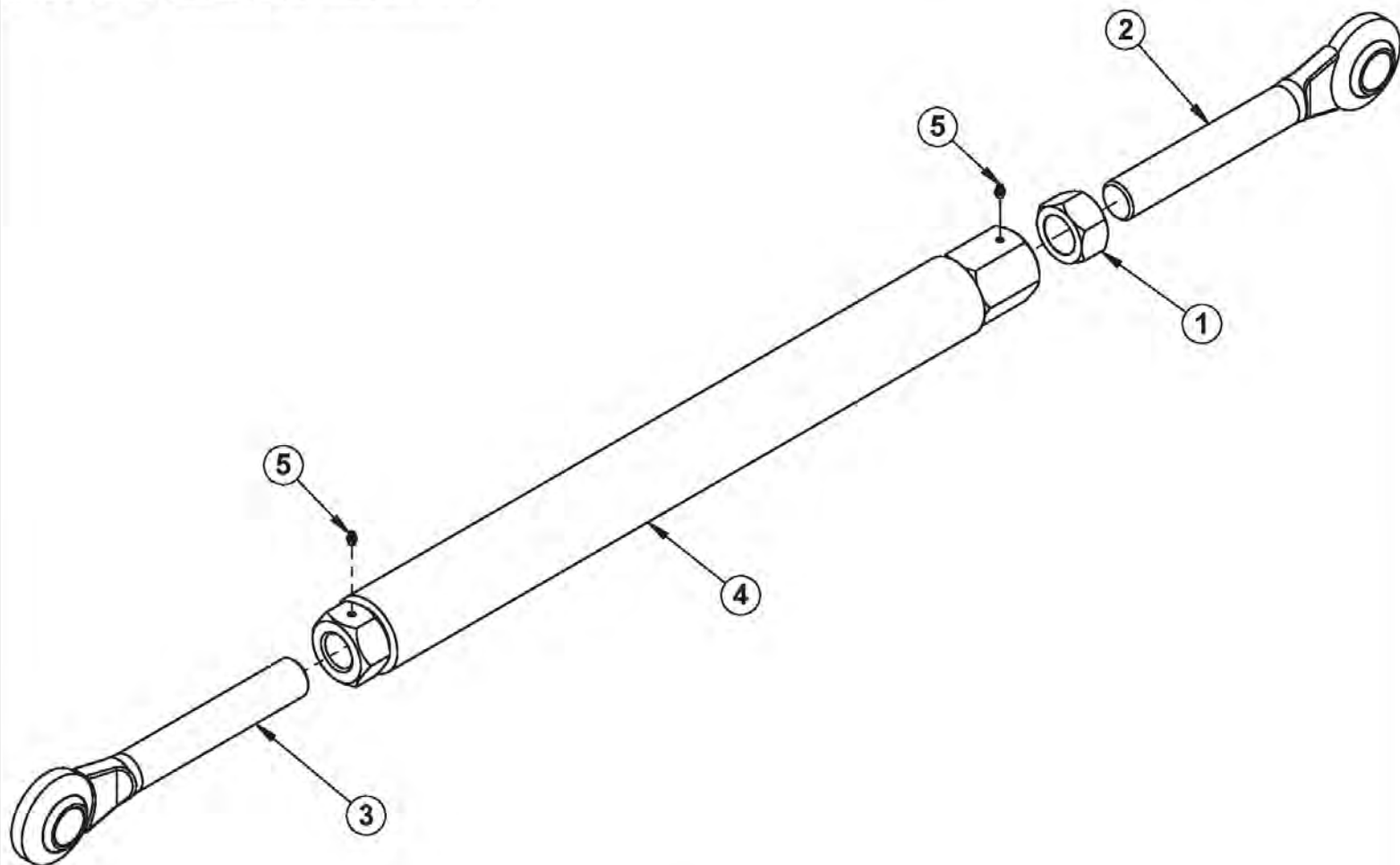


TA01214 Assy, Main Lift

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.

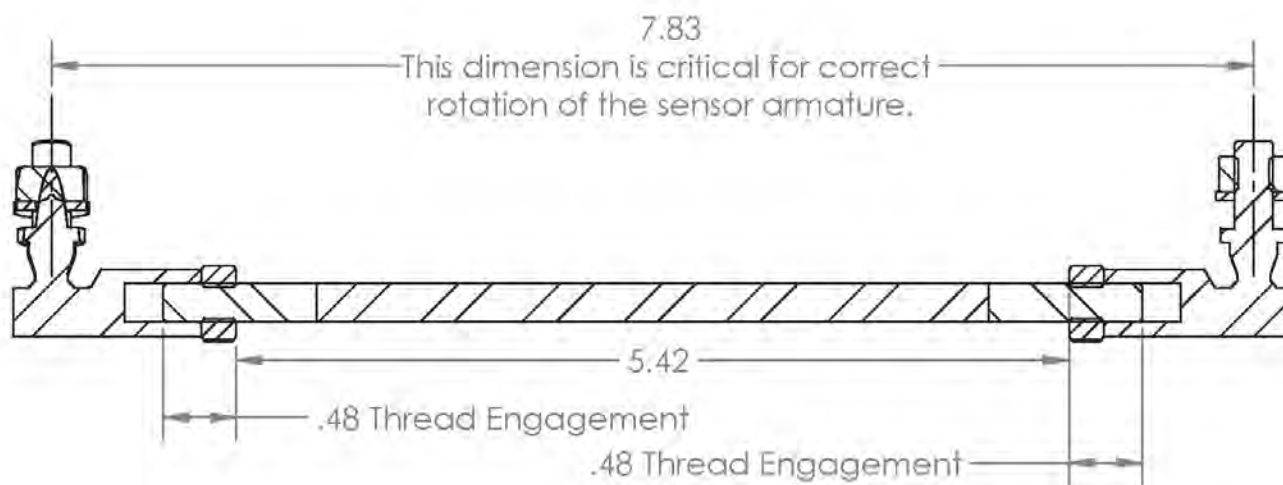
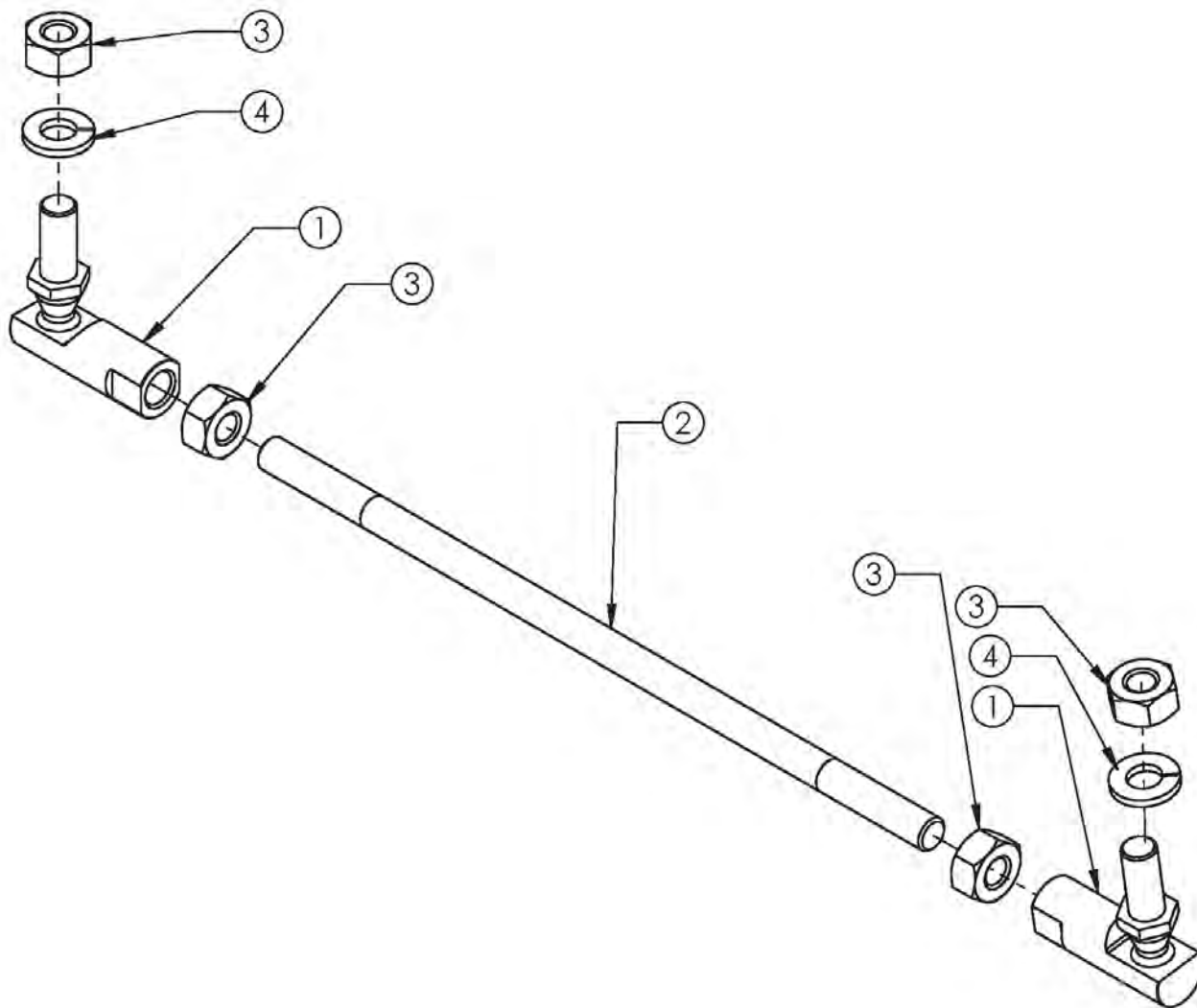


Thread lengths must be equal



TA00613 Upper Link Assy

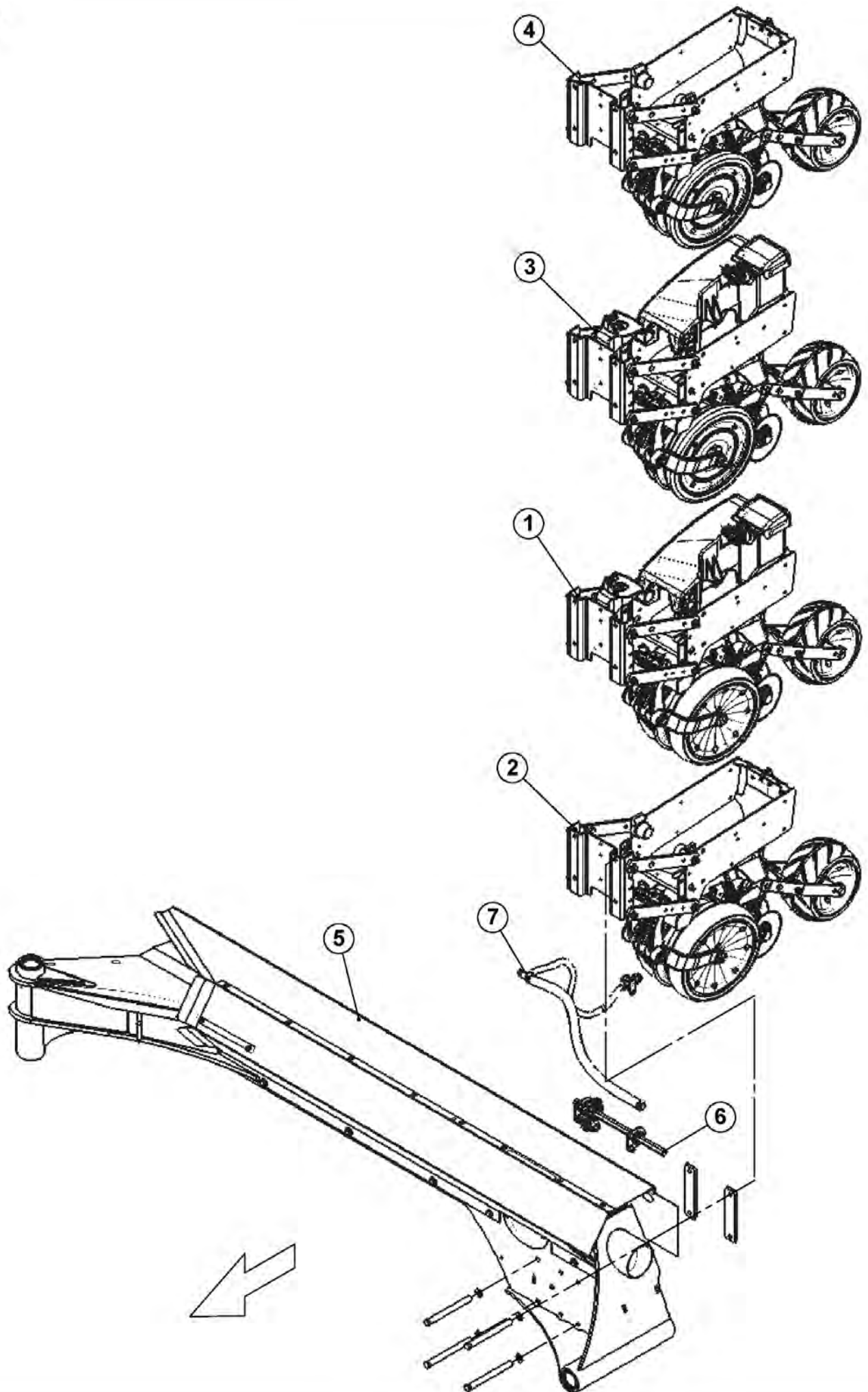
ITEM	PART NUMBER	DESCRIPTION	QTY	TORQUE (ft-lbs)
1	HNUT-1.500-6Y8	Nut, Hex 1-1/2-6 YZ8	1	
2	T0051213	RH End Link	1	
3	T0051214	LH End Link	1	
4	TW000618	Upper Link Weldment	1	
5	ZERK-0.250-28	Zerk, 1/4-28	2	



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	

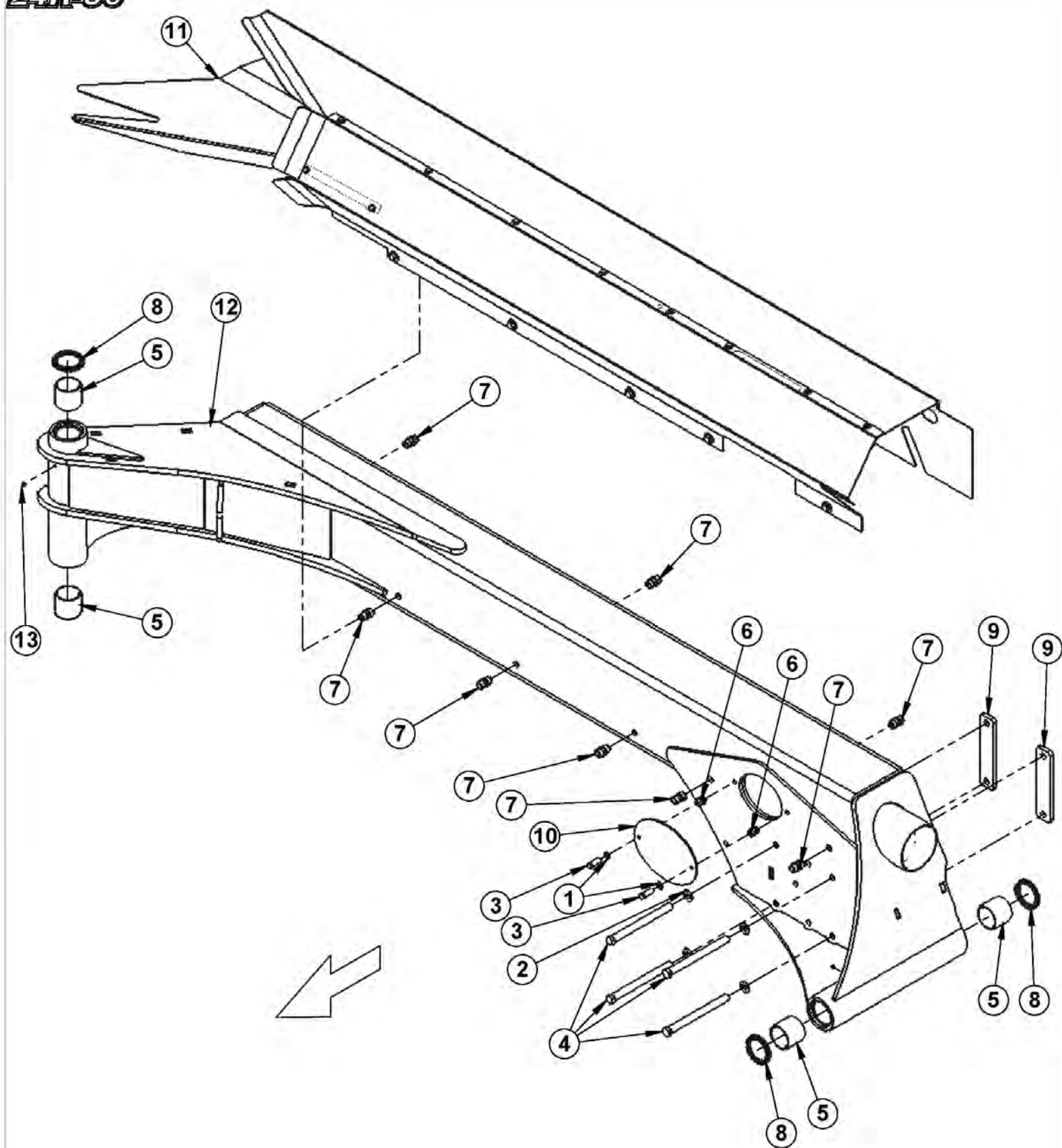


TA01267 Assy, 24R30 LH Stub Arm

ITEM	PART NUMBER	DESCRIPTION	QTY.	TORQUE (ft-lbs)
1	47525132	LH ASM STD GW Row Unit	1	
2	47876037	LH PR STD GW Row Unit	1	
3	48016428	LH ASM NGW Row Unit	1	
4	48016431	LH PR NGW Row Unit	1	
5	TA01528	Assy, 24R30 LH Stub Arm Base	1	
6	TA01532	Assy, 24R30 LH Stub Arm Seed Drive	1	
7	TA01571	Assy, 24R30 LH SA Fert Routing	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.

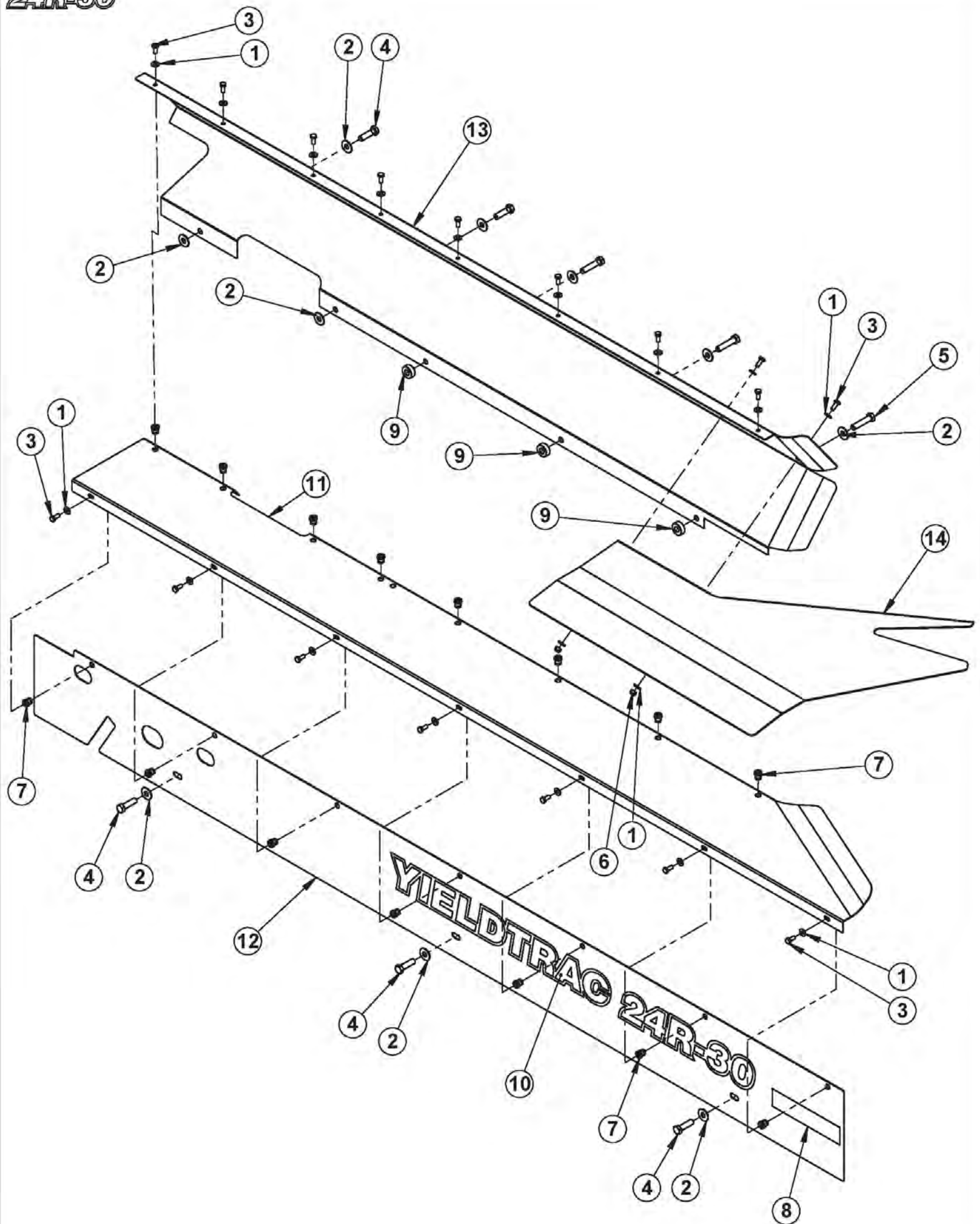


TA01528 Assy, 24R30 LH Stub Arm Base

ITEM	PART NUMBER	DESCRIPTION	QTY.	TORQUE (ft-lbs)
1	FW-SAE-0.375Y	Washer, Flat SAE 3/8" YZ	2	
2	FW-SAE-0.625Y	Washer, Flat-SAE-5/8	4	
3	HB-0.375-16X1.50Y8	Bolt, Hex Hd 3/8-16x1-1/2-YZ8	2	
4	HB-0.625-11X9.00Y8	Bolt, Hex Head-5/8-11x9.0-YZ8	4	
5	PB-2.500X2.75X2.50	Bush, Polygon 2.500x2.75x2.50	4	
6	RN-0.375-16-.31-.44-Y	Rivnut, 3/8-16 UNC .31-.44 GR	2	
7	RN-0.500-13-.35-.50Y	Rivnut, 1/2-13 .350-.500 GR	8	
8	T0051584	2.50 Grease Seal	3	
9	T0053471	Plate, Row Unit Spacer	2	
10	T0054514	Cover, Vacuum Inlet	1	
11	TA01530	Assy, 24R30 LH Stub Arm Shield	1	
12	TW001196	Wdmt, LH Stub Arm	1	
13	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.

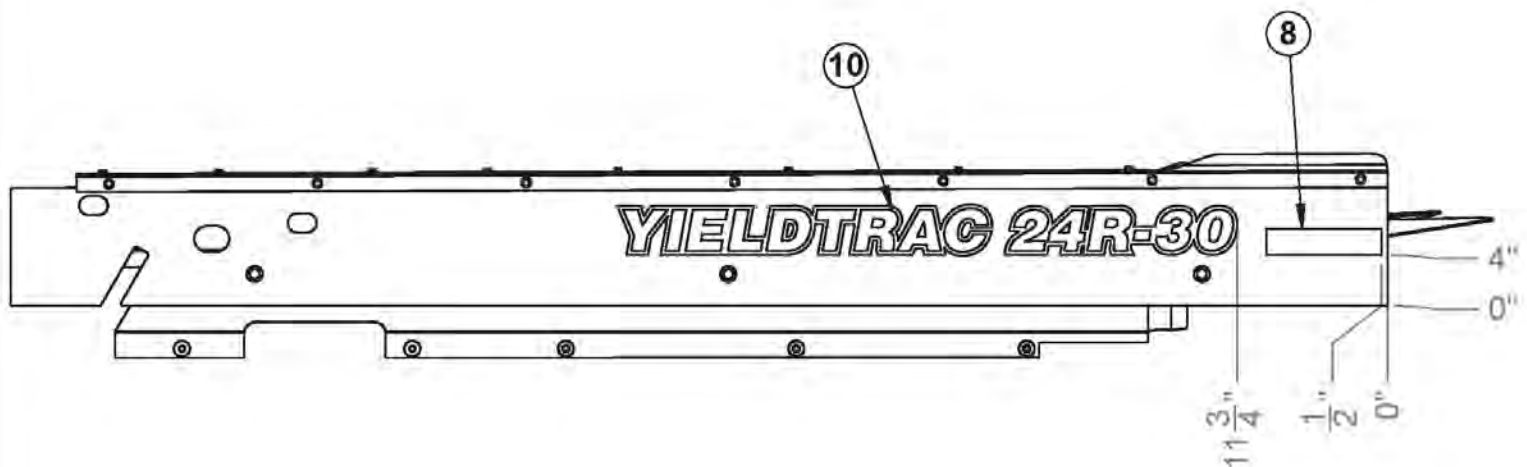


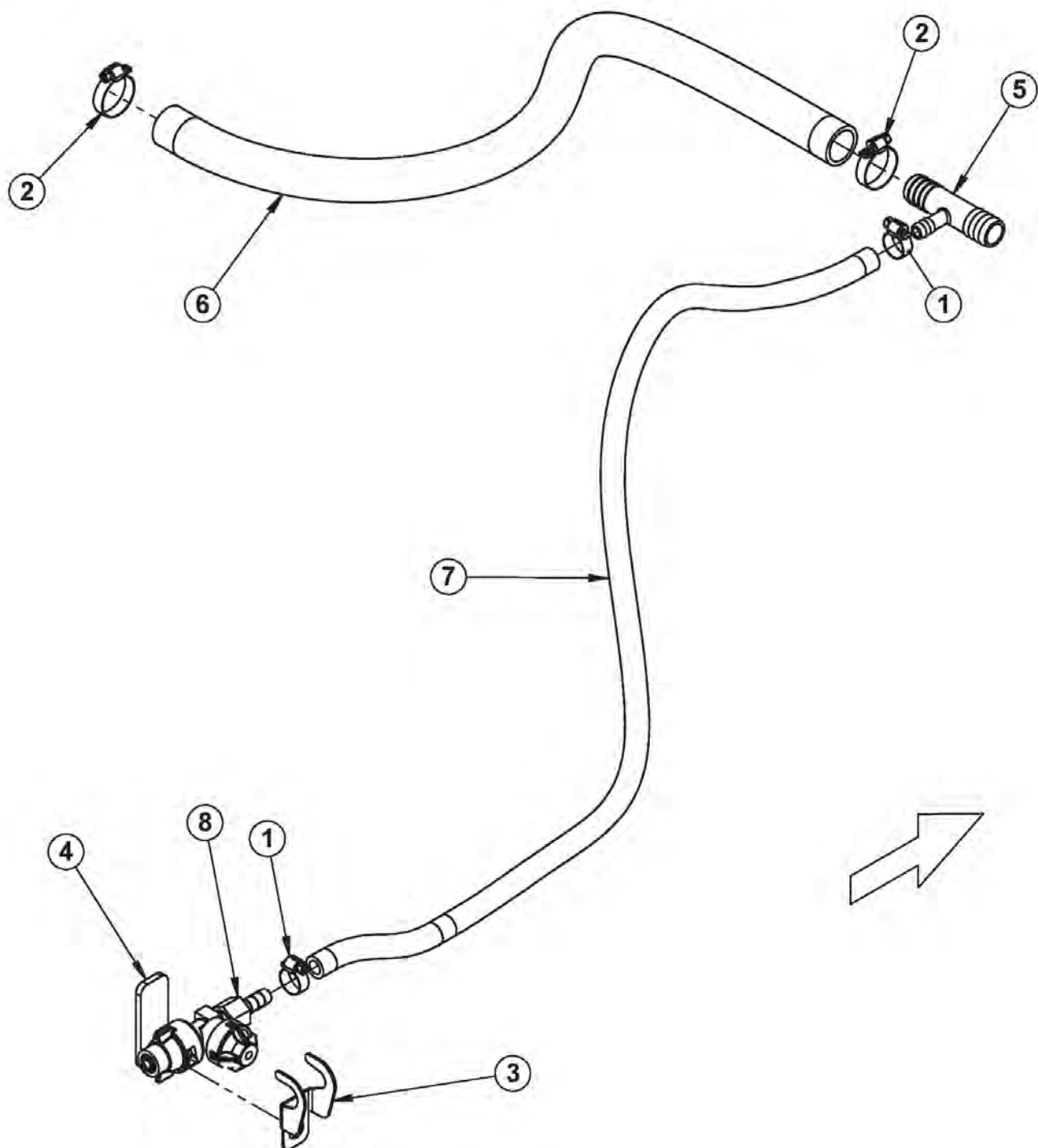
TA01530 Assy, 24R30 LH Stub Arm Shield

ITEM	PART NUMBER	DESCRIPTION	QTY	TORQUE (ft-lbs)
1	FW-USS-0.250Y	Washer, Flat USS 1/4" YZ	19	
2	FW-USS-0.438Y	Washer, Flat-USS 7/16-YZ	10	
3	HB-0.313-18X0.75Y8	Bolt, Hex Hd 5/16-18x3/4-YZ8	17	
4	HB-0.500-13X1.75Y8	Bolt, Hex Hd 1/2-13x1-3/4 YZ8	5	
5	HB-0.500-13X2.25Y8	Bolt, Hex Hd 1/2-13x2-1/4 YZ8	3	
6	NLNUT-0.313-18Y8	Nut, Nylock 5/16"-18-YZ8	2	
7	RN-0.313-18-.03-.15Y	Rivnut, 5/16-18 UNC .027-.150	15	
8	T0051729	Decal, Reflector, Yellow-2x9	1	
9	T0052276	Spacer	3	
10	T0052651	Decal, Yldtrac 24R-30-3.8x48.5	1	
11	T0054643	Cover, LH Stub Arm	1	
12	T0054822	Panel, Stub Arm Back 36R20	1	
13	T0054823	Shield, LH Stub Arm Front	1	
14	T0054825	Shelf, LH Seed Hose	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.



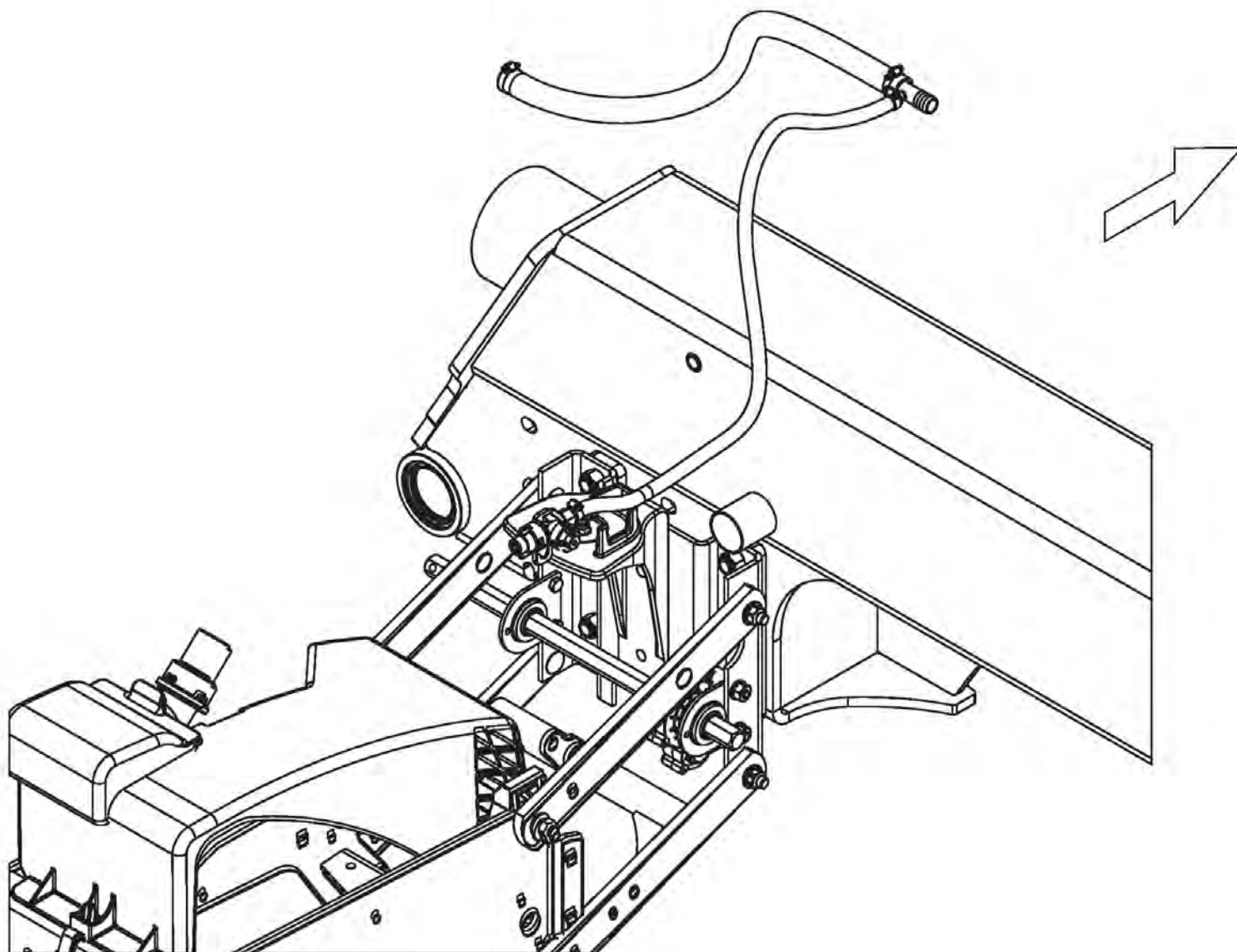


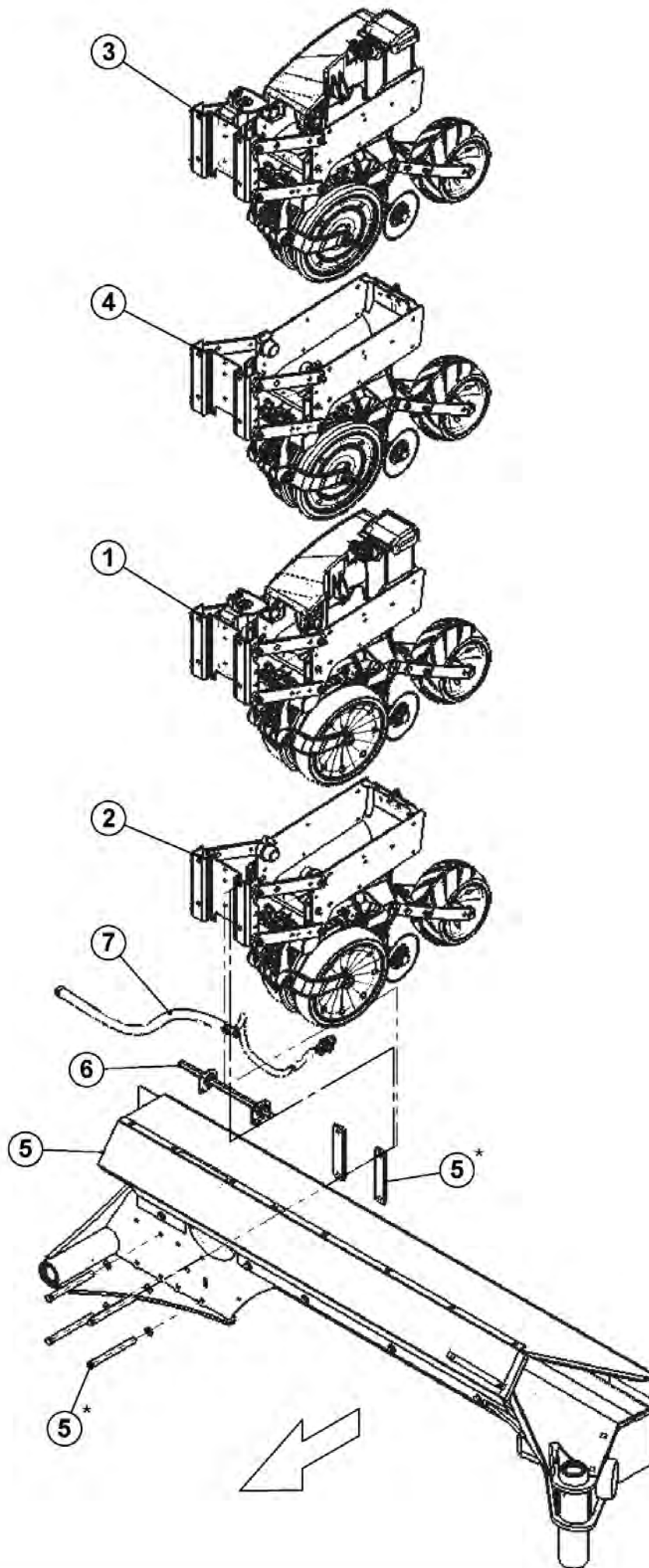
TA01571 Assy, 24R30 LH SA Fert Routing

ITEM	PART NUMBER	DESCRIPTION	QTY.	TORQUE (ft-lbs)
1	HCLMP-SAE-06SS	Hose Clamp, SAE #6-SS	2	
2	HCLMP-SAE-12SS	Hose Clamp, SAE #12-SS	2	
3	T0051533	Tee Jet Clip RH	1	
4	T0051652	Plate Check Valve Mount	1	
5	T0052308	Barbed Tee 3/4" x 3/4" x 3/8"	1	
6	T0054940	Hose, Ag Spray 200 Ø3/4X29	1	
7	T0054942	Hose, Ag Spray 200 Ø3/8x31	1	
8	TA00674	Tee Jet Valve Assy	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.



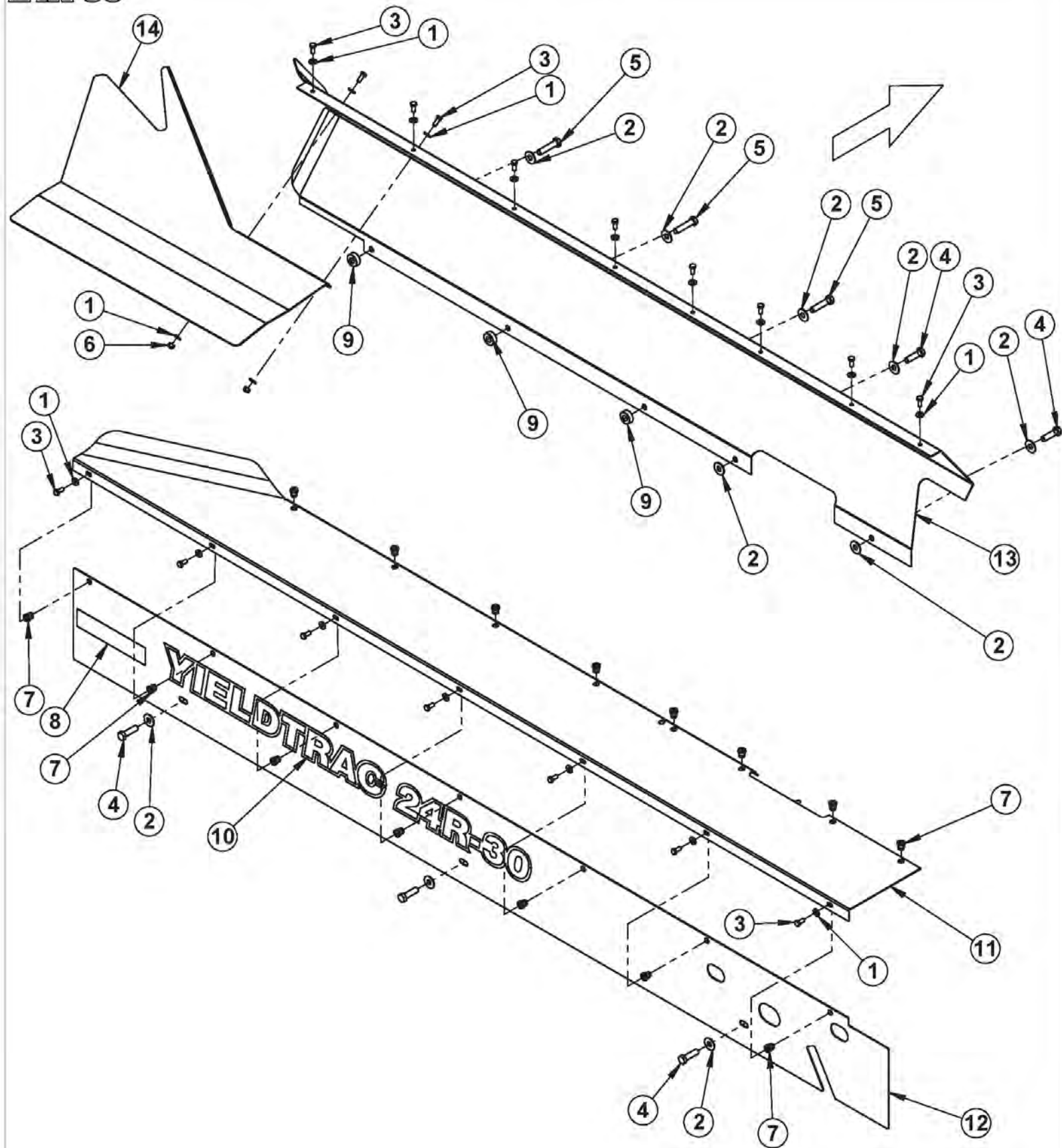


TA01268 Assy, 24R30 RH Stub Arm

ITEM	PART NUMBER	DESCRIPTION	QTY.	TORQUE (ft-lbs)
1	47525133	RH ASM STD GW Row Unit	1	
2	47876038	RH PR STD GW Row Unit	1	
3	48016430	RH ASM NGW Row Unit	1	
4	48016432	RH PR NGW Row Unit	1	
5	TA01529	Assy, 24R30 RH Stub Arm Base	1	
6	TA01533	Assy, 24R30 RH Stub Arm Seed Drive	1	
7	TA01572	Assy, 24R30 RH SA Fert Routing	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.

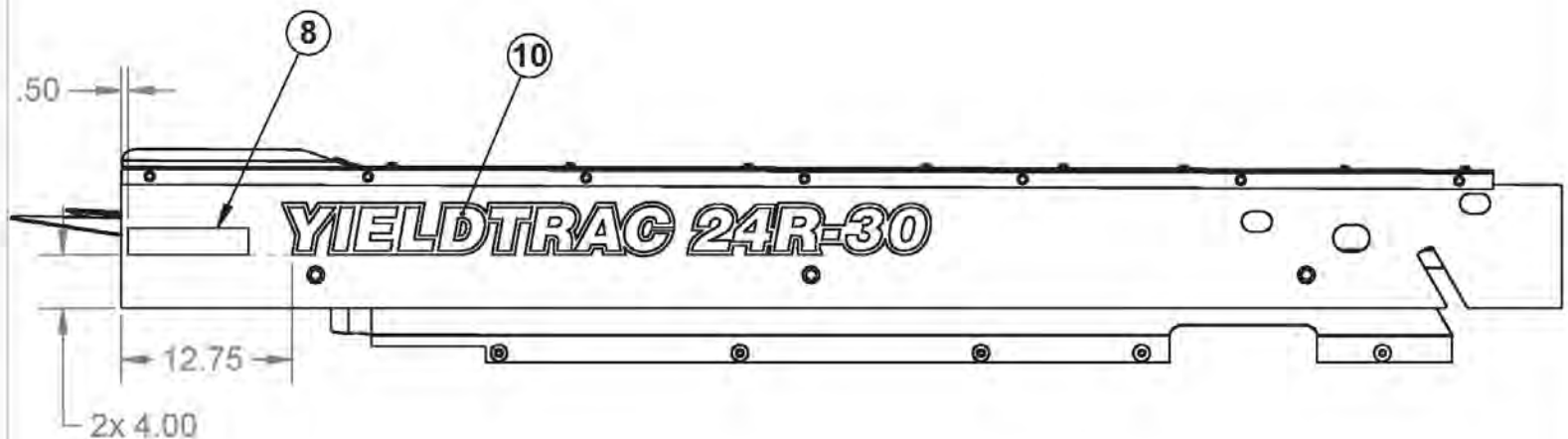


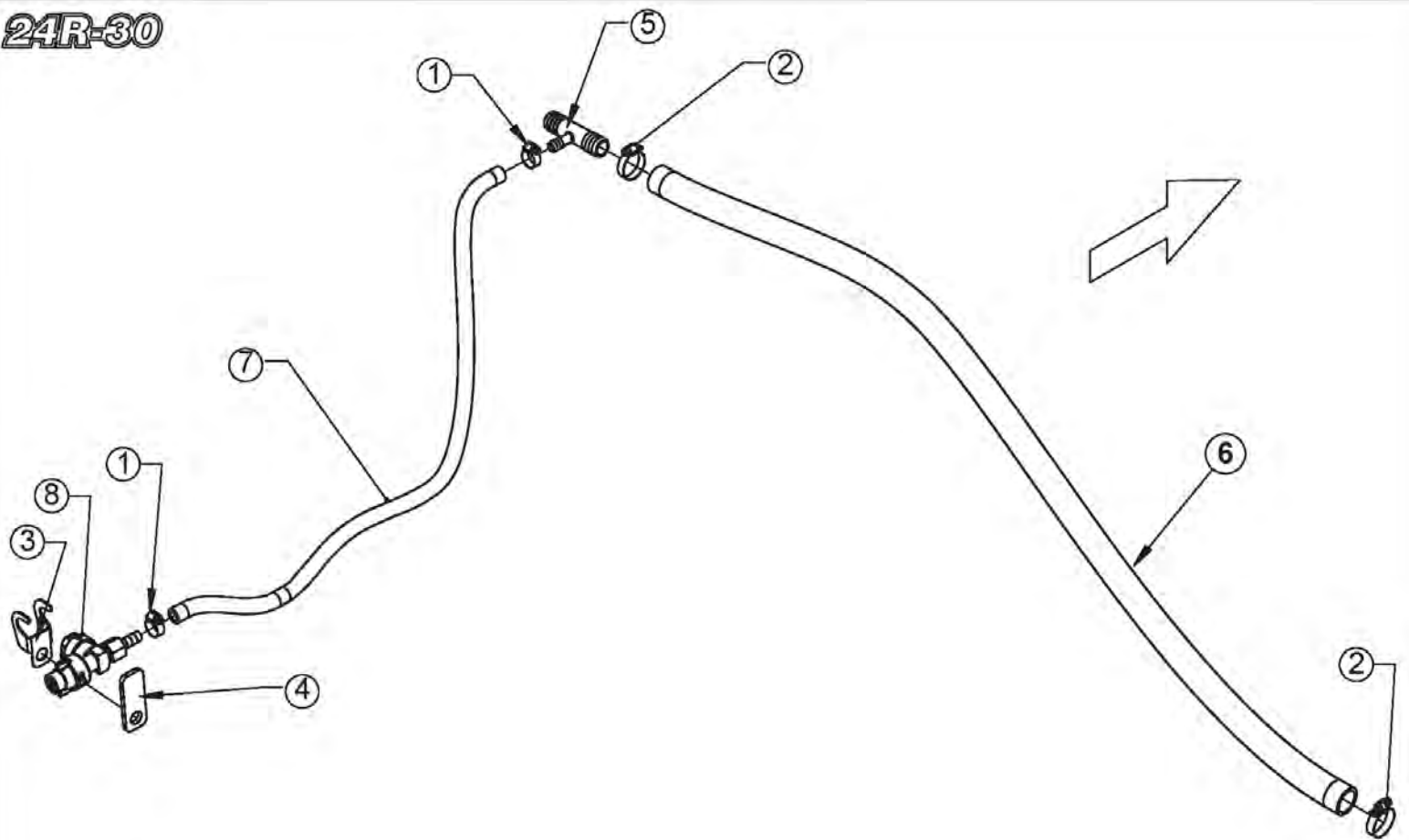
TA01531 Assy, 24R30 RH Stub Arm Shield

ITEM	PART NUMBER	DESCRIPTION	QTY.	TORQUE (ft-lbs)
1	FW-USS-0.250Y	Washer, Flat USS 1/4" YZ	19	
2	FW-USS-0.438Y	Washer, Flat-USS 7/16-YZ	10	
3	HB-0.313-18X0.75Y8	Bolt, Hex Hd 5/16-18x3/4-YZ8	17	
4	HB-0.500-13X1.75Y8	Bolt, Hex Hd 1/2-13x1-3/4 YZ8	5	
5	HB-0.500-13X2.25Y8	Bolt, Hex Hd 1/2-13x2-1/4 YZ8	3	
6	NLNUT-0.313-18Y8	Nut, Nylock 5/16"-18-YZ8	2	
7	RN-0.313-18-.03-.15Y	Rivnut, 5/16-18 UNC .027-.150	15	
8	T0051729	Decal, Reflector, Yellow-2x9	1	
9	T0052276	Spacer	3	
10	T0052651	Decal, Yldtrac 24R-30-3.8x48.5	1	
11	T0054635	Cover, RH Stub Arm	1	
12	T0054822	Panel, Stub Arm Back 36R20	1	
13	T0054824	Shield, RH Stub Arm Front	1	
14	T0054826	Shelf, RH Seed Hose	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.



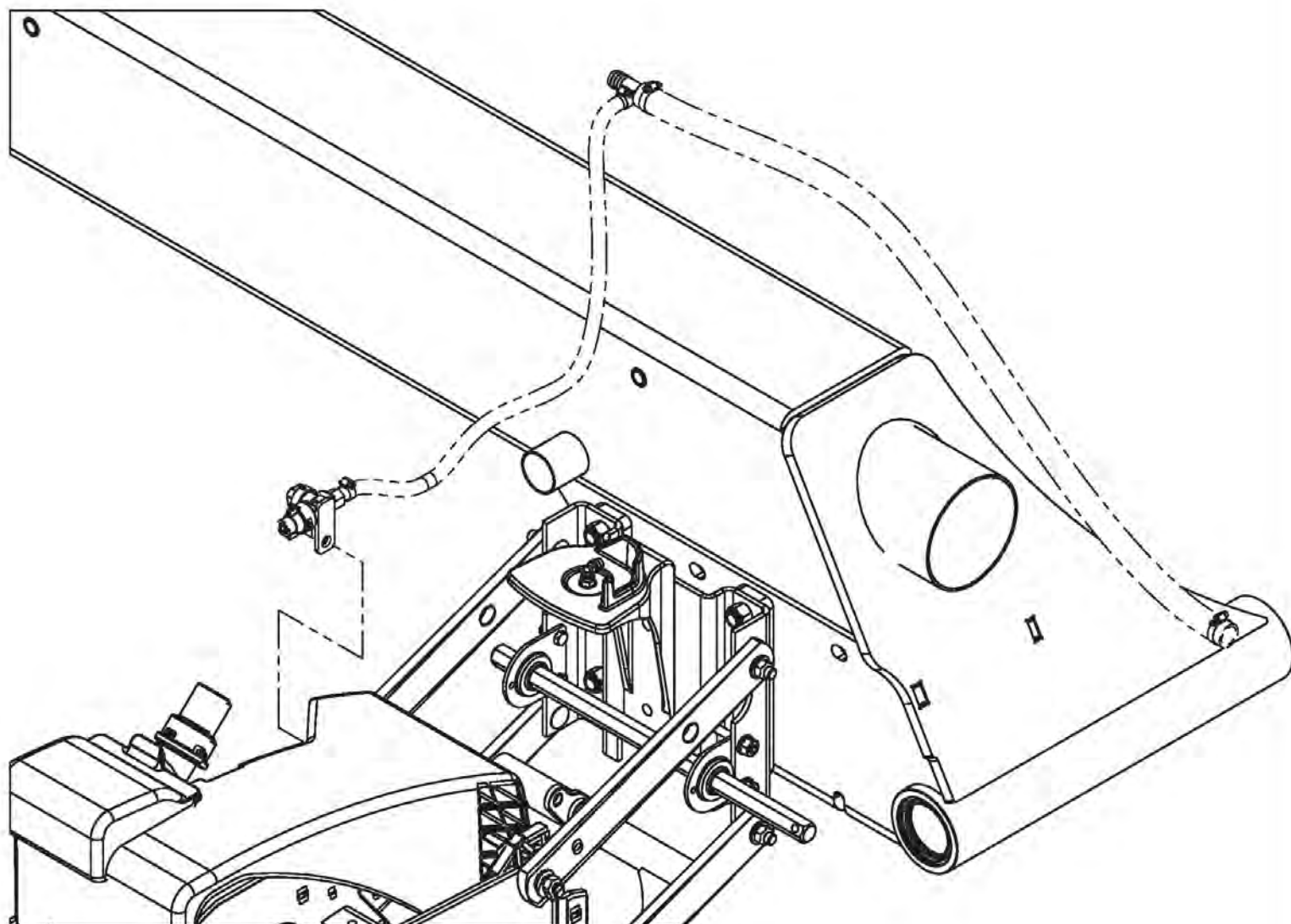


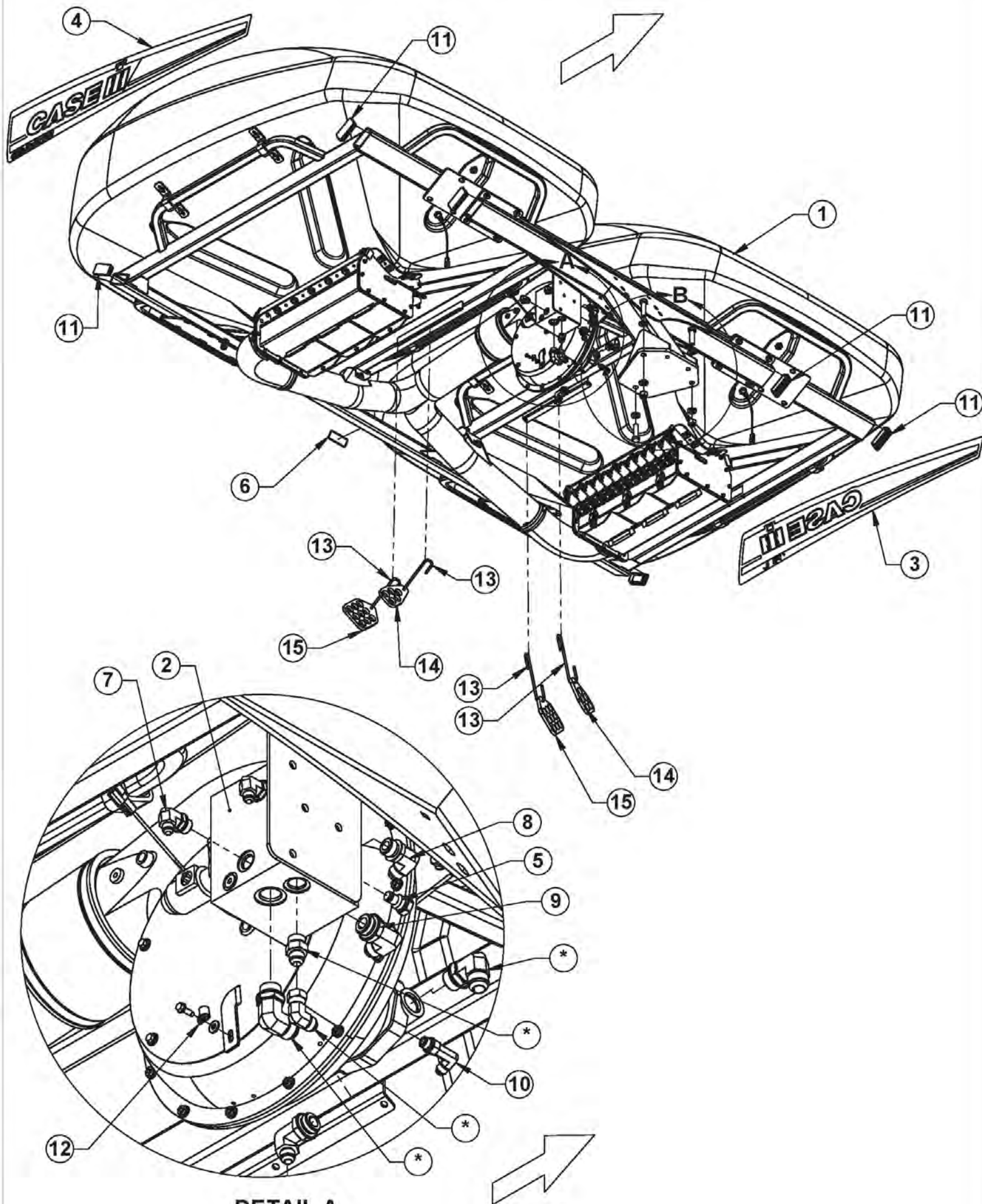
TA01572 Assy, 24R30 RH SA Fert Routing

ITEM	PART NUMBER	DESCRIPTION	QTY.	TORQUE (ft-lbs)
1	HCLMP-SAE-06SS	Hose Clamp, SAE #6-SS	2	
2	HCLMP-SAE-12SS	Hose Clamp, SAE #12-SS	2	
3	T0051651	TeeJet Clip LH	1	
4	T0051652	Plate Check Valve Mount	1	
5	T0052308	Barbed Tee 3/4" x 3/4" x 3/8"	1	
6	T0054944	Hose, AgSpray 200 Ø3/4x38-3/4	1	
7	T0054946	Hose, AgSpray 200 Ø3/8x28-1/2	1	
8	TA00674	Tee Jet Valve Assy	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.





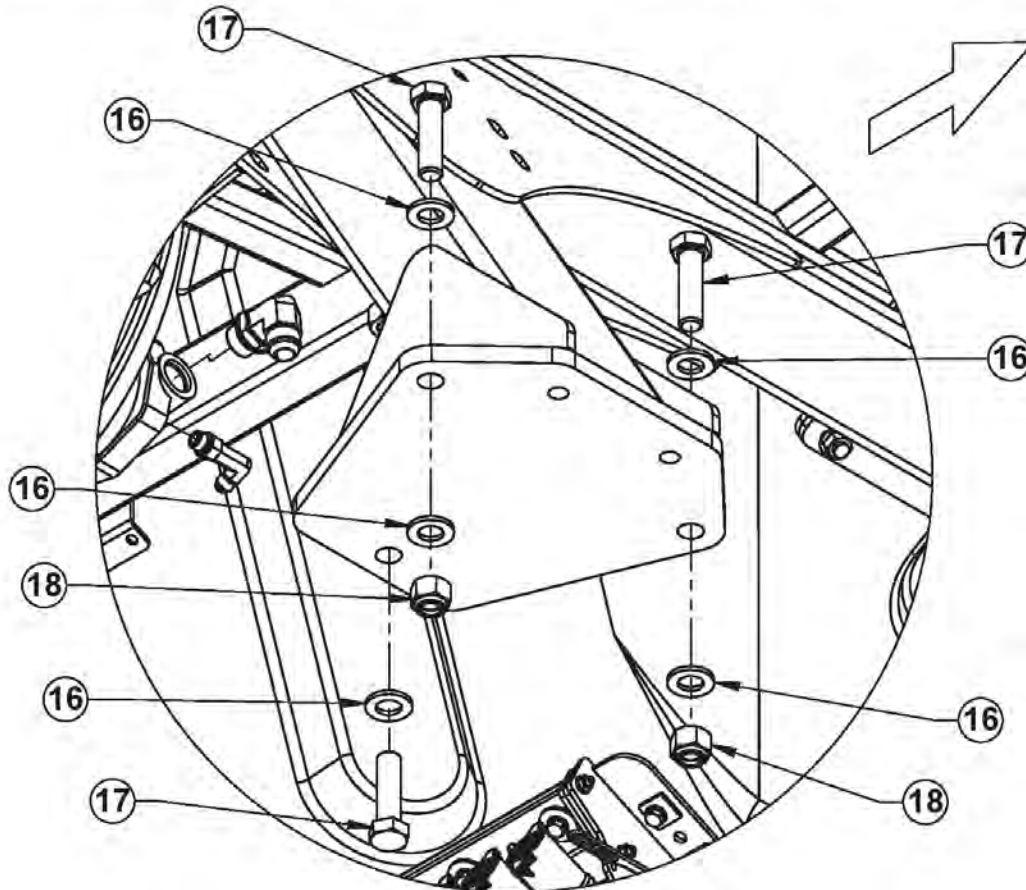
DETAIL A
SCALE 1 : 6

TA00989 Bulk Fill Assy

ITEM	PART NUMBER	DESCRIPTION	QTY.	TORQUE (ft-lbs)
1	47525131	Kit, Bulk Fill System	1	
2	84538083	VALVE, BULK FILL DD 13GPM	1	
3	T0052294	Decal, Bulk Fill LH	1	
4	T0052295	Decal, Bulk Fill RH	1	
5	T0051740	Cavity Plug, SAE #8 2-Way	1	
6	T0051653	Decal, No Step	1	
7	AD-06MJ-08MB-90	ADAPTER 06MJ-08MB 90	2	
8	AD-08MJ-10MB-90	ADAPTER 08MJ-10MB 90	1	
9	AD-10MJ-12MB-90	ADAPTER 10MJ-12MB 90	1	
10	AD-06MJ-06MB-90LL	ADAPTER 06MJ-06MB 90LL	1	
11	T0052517	Plug, Rect Tube 2x4x6-8Ga	6	
12	T0051717	P-Clamp, .3125 Ø.281 Hole	1	
13	T0052569	J-Hanger, Double	4	
14	T0052573	Seed Hose Hanger, Middle Fr	2	
15	T0052572	Seed Hose Hanger, Middle	2	
16	FW-SAE-0.750Y	Washer, Flat-SAE 3/4 YZ	6	
17	HB-0.750-10X2.75Y8	Bolt, Hex Hd 3/4-10x2-3/4-YZ8	3	
18	NLNUT-0.750-10Y8	Nut, Nylock 3/4-10-YZ8	3	

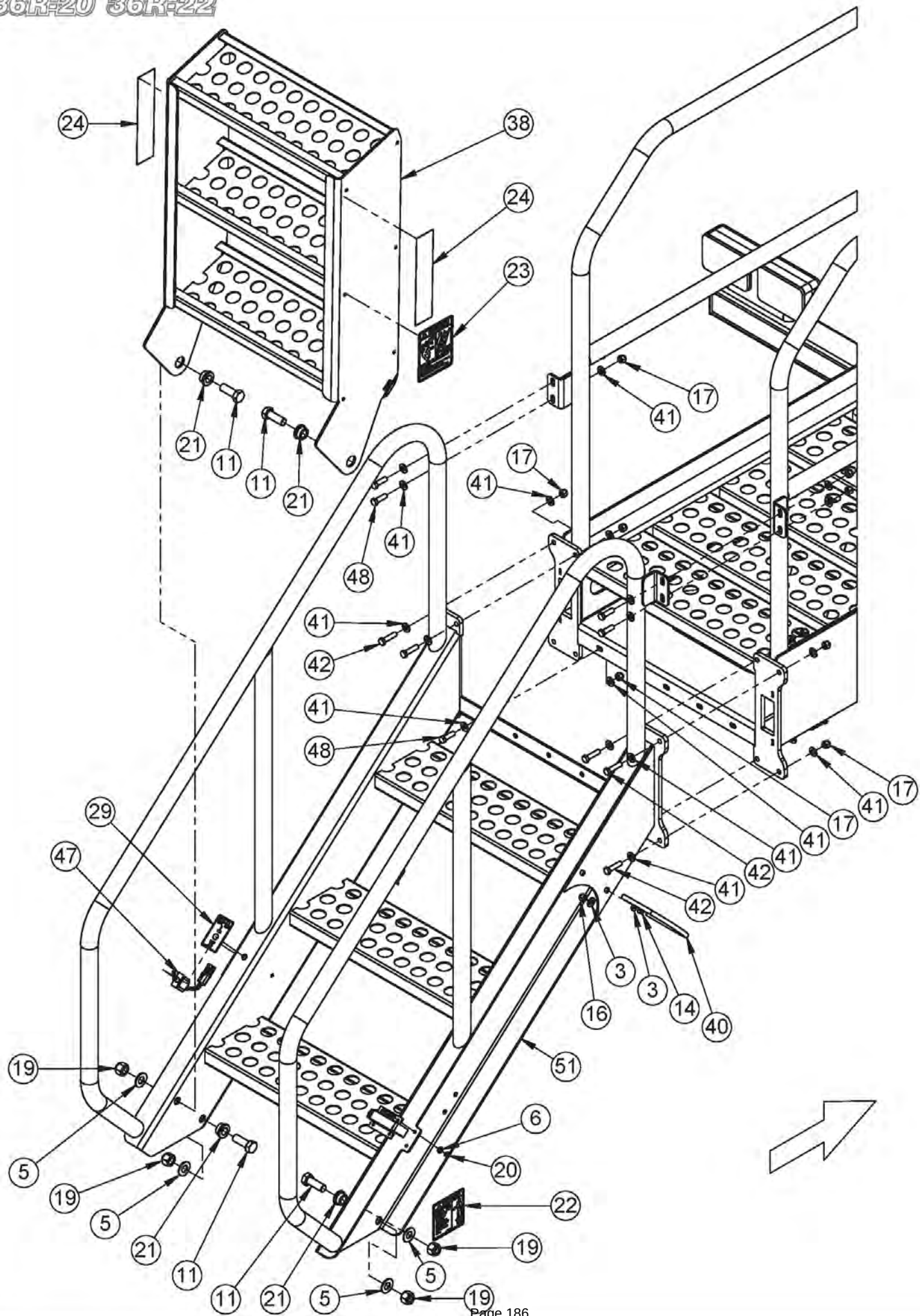
Note:

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



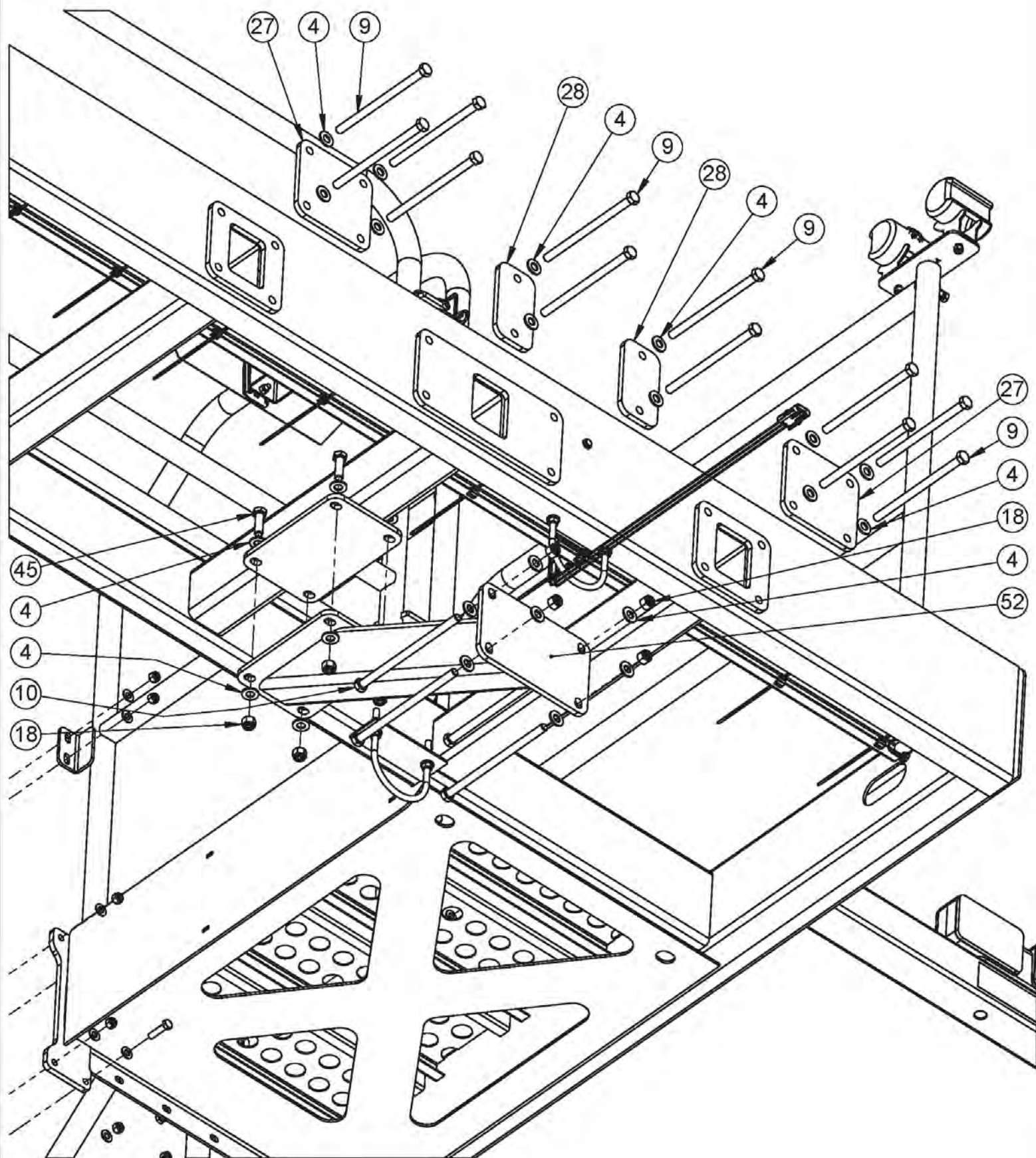
DETAIL B
SCALE 1 : 6

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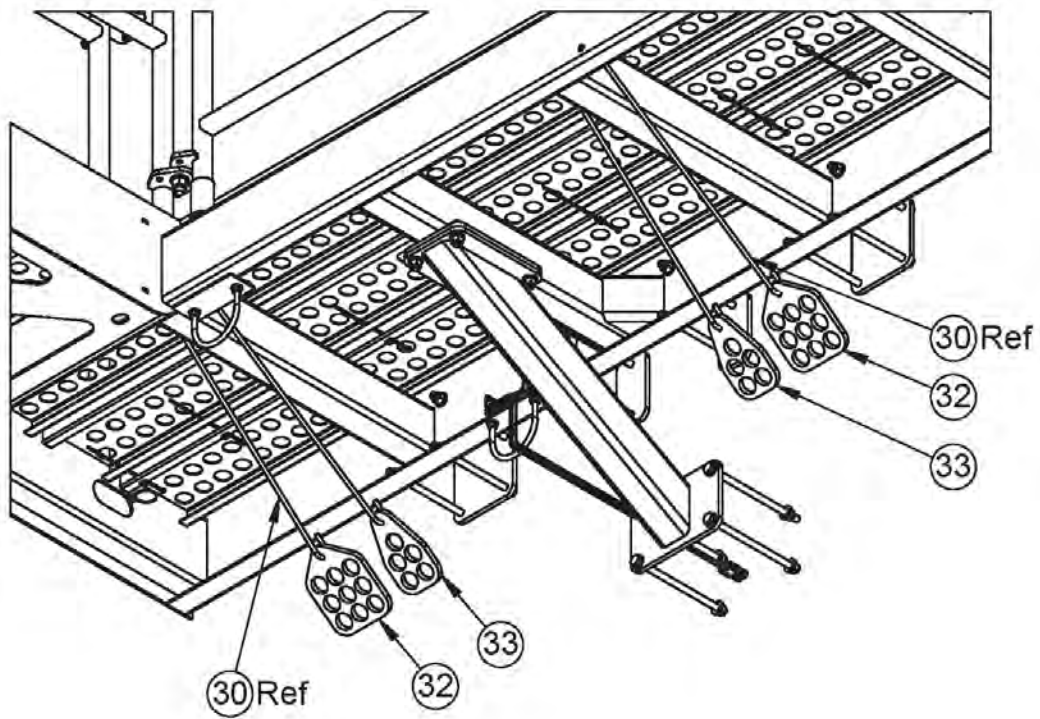


TA01246 Assy, Ladder Platform

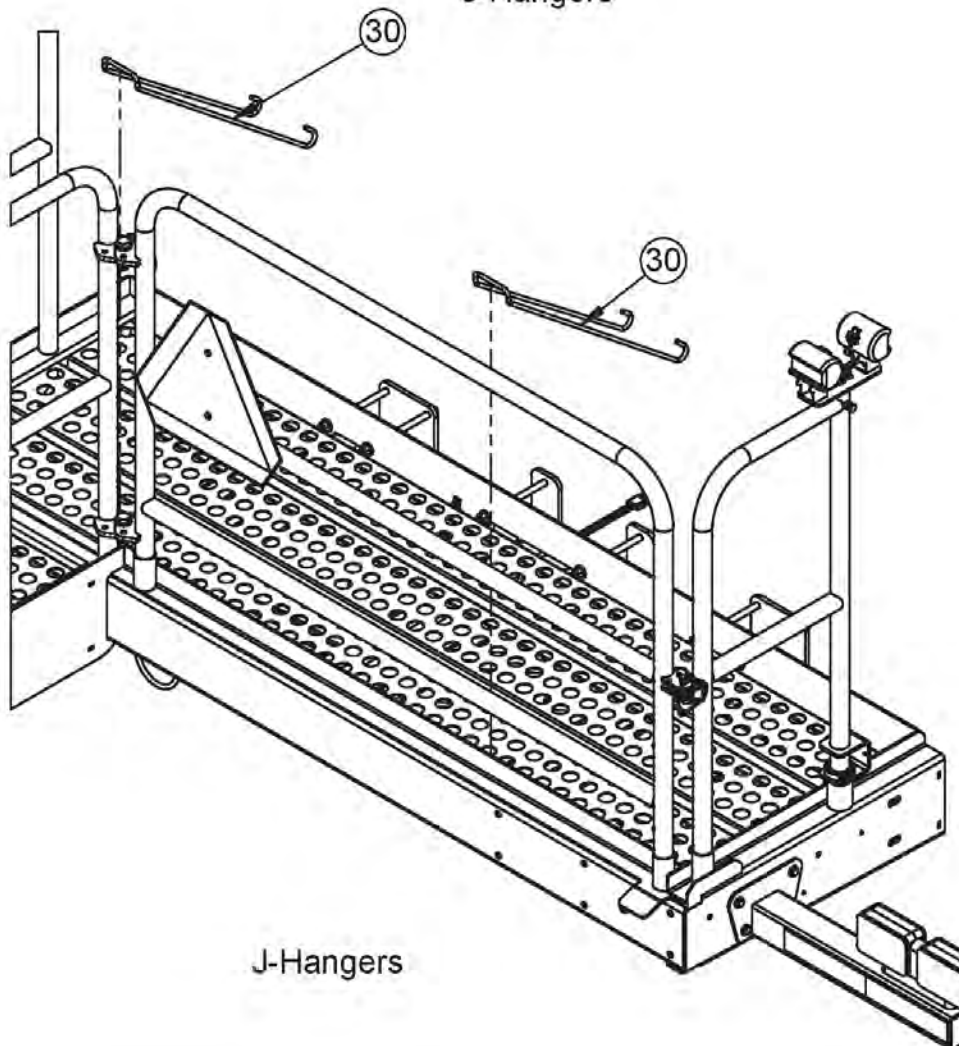
ITEM	PART NUMBER	DESCRIPTION	QTY	TORQUE (ft-lbs)
1	CBLTIEMT-256-276-HL	Assy, Cable Tie Mnt 031-276 PT	4	
2	FW-SAE-0.250Y	Washer, SAE Flat 1/4-YZ	5	
3	FW-SAE-0.375SS	Washer, Flat SAE 3/8" SS	12	
4	FW-SAE-0.500Y	Washer, Flat SAE - 1/2-YZ	40	
5	FW-SAE-0.625Y	Washer, Flat-SAE-5/8	8	
6	FW-SAE-#10C	Washer, Flat SAE #10 CZ	4	
7	HB-0.250-20X0.75Y8	Bolt, Hex Hd 1/4-20x3/4-YZ8	1	
8	HB-0.250-20X1.00Y8	Bolt, Hex Hd 1/4-20x1-YZ8	2	
9	HB-0.500-13X8.00Y8	Bolt, Hex Hd 1/2-13x8 YZ8	12	
10	HB-0.500-13X9.00Y8	Bolt, Hex Hd 1/2-13x9 YZ8	4	
11	HB-0.625-11X1.75Y8	Bolt, Hex Head-5/8-11x1.75-YZ8	4	
12	HB-0.625-11X2.25Y8	Bolt, Hex Head-5/8-11x2.25-YZ8	2	
13	HB-10-24X0.75C2	Bolt, Hex Hd 10-24x3/4 Cl Zc Gr2	4	
14	HNUT-0.375-16SS	Nut, Hex 3/8-16 SS	6	
15	NLNUT-0.250-20Y8	Nut, Nylock 1/4-20-YZ8	3	
16	NLNUT-0.375-16SS	Nut, Nylock -3/8"-16-SS	6	
17	NLNUT-0.375-16Y8	Nut, Nylock 3/8-16 YZ8	17	
18	NLNUT-0.500-13Y8	Nut, Nylock 1/2-13 YZ8	20	
19	NLNUT-0.625-11Y8	Nut, Nylock-5/8-11-YZ8	6	
20	NLNUT-10-24C	Nut, Nylock 10-24 CZ2	4	
21	T0050854	Anti Rotation Insert	6	
22	T0051589	Decal, Warning-Chemical Hazard	1	
23	T0051596	Decal, Warning - Ladder Lowering	1	
24	T0051729	Decal, Reflector, Yellow-2x9	2	
25	T0052167	Cap, Tube Ø1.50 Vinyl	3	
26	T0052227	Latch, Flush Fngr Pull Slim 25#	1	
27	T0052241	Plate, Ladder Attachment	2	
28	T0052242	Plate, Ladder Attach	2	
29	T0052291	Decal, Ladder Platform Lights	1	
30	T0052570	J Hanger, Double Straight	2	
31	T0052571	Seed Hose Hanger, Stub Arm	2	
32	T0052572	Seed Hose Hanger, Middle	2	
33	T0052573	Seed Hose Hanger, Middle Fr	2	
34	TA00678	Assy, SMV Sign	1	
35	TA00791	Assy, Lynch Pin & Lanyard	2	
36	TA00811	Assy, Tail Light-LH	1	
37	TW000753	Wdmt, Railing Rear Hinged	1	
38	TW000762	Wdmt, Folding Step Ladder	1	
39	TW000877	Wdmt, Railing Side-RH Rotating	1	
40	UB-0.38X4.0X5.5-RC5	Ubolt, 3/8x4x5-1/2 RC5	3	
41	FW-SAE-0.375Y	Washer, Flat SAE 3/8" YZ	34	
42	HB-0.375-16X1.50Y8	Bolt, Hex Hd 3/8-16x1-1/2-YZ8	8	
43	HB-0.375-16X0.75Y8	HBolt-0.3750-16x0.750-YZ8	2	
44	RN-0.375-16-.15-.31Y	Rivnut, 3/8-16 .150-.312 YZ	4	
45	HB-0.500-13X1.63Y8	Bolt, Hex Hd 1/2-13x1-5/8 YZ8	4	
46	EDGCLP-CBLTIE-.04-.18	Edge Clip, W/CblTie PT.04-.18	10	
47	T0053647	Switch, On/Off W Boot	1	
48	HB-0.375-16X1.25Y8	Bolt, Hex Hd 3/8-16x1-1/4 YZ8	9	
49	SFTCOLLAR-1.500BO	Collar, Shaft 1-1/2 Black Oxide	1	
50	TW000913	Wdmt, Ladder Platform	1	
51	TW000917	Wdmt, Platform Stairs	1	
52	TW000931	Wdmt, Platform Strut	1	
53	TA00996	Harness, Bulk Fill Lights	1	
54	TA00812	Assy, Tail Light-RH	1	
55	TA01247	Assy, Light Arm Extension	2	

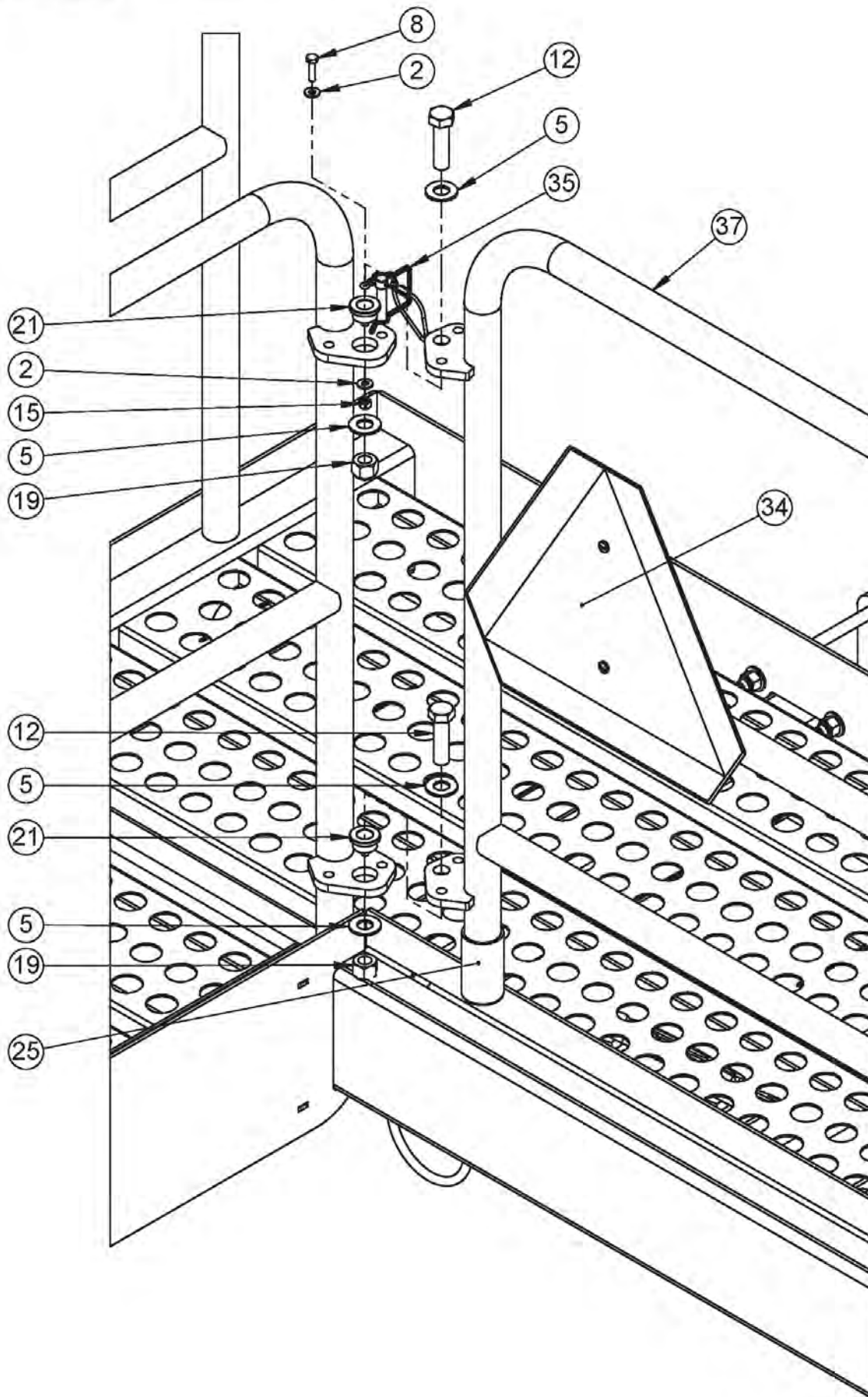


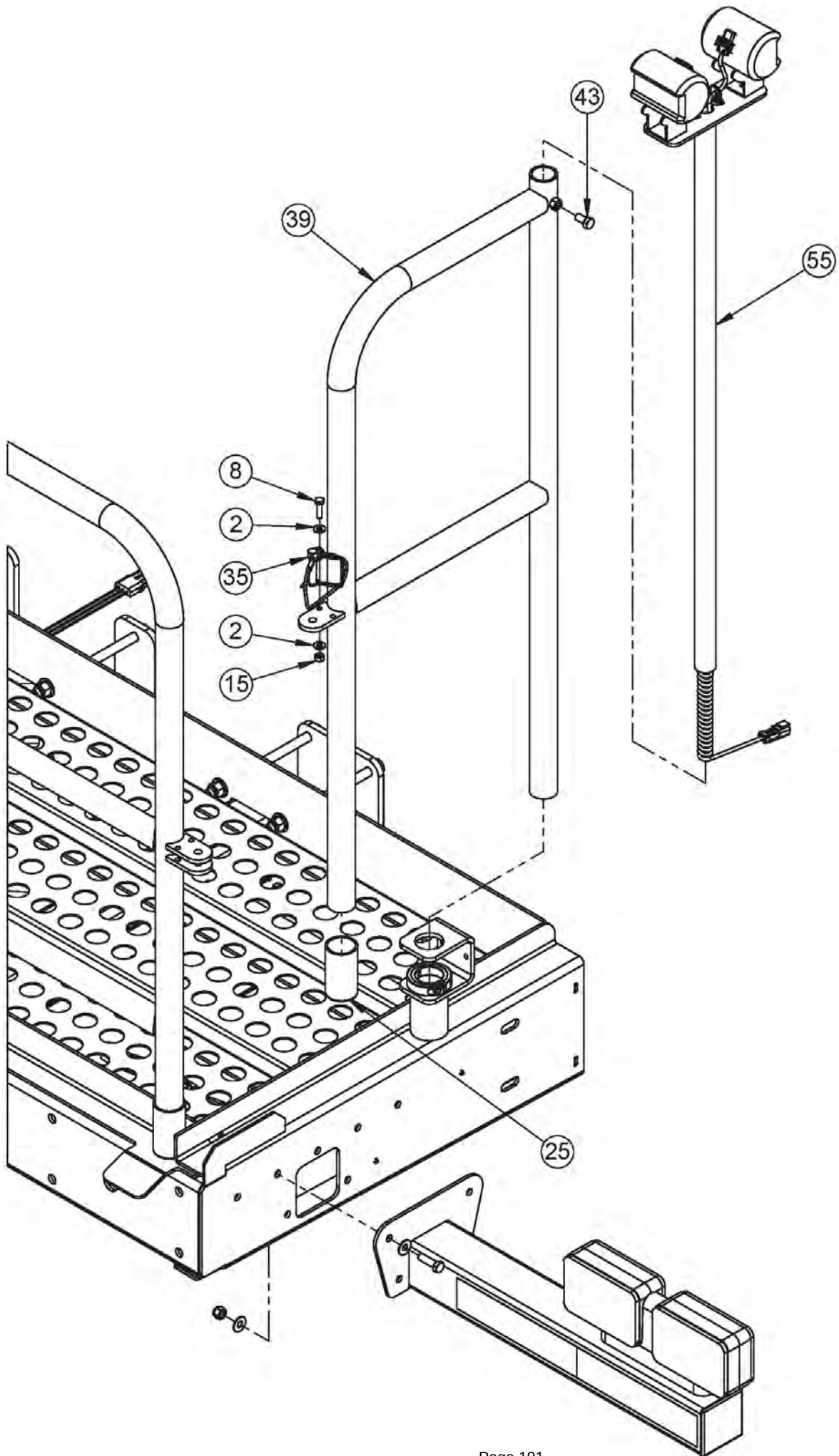
Platform Mounting

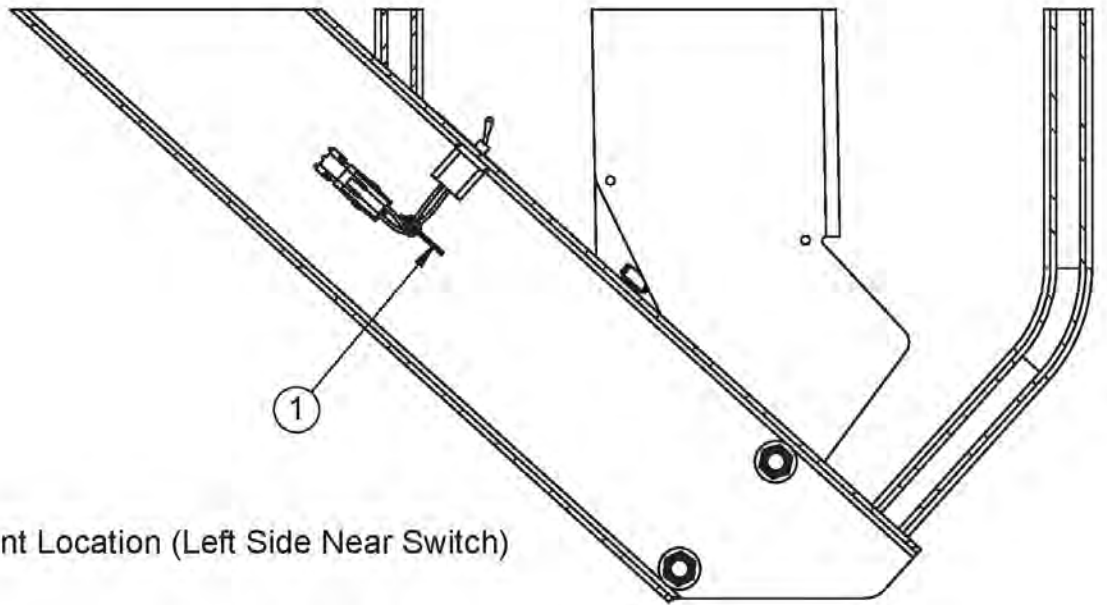


J-Hangers

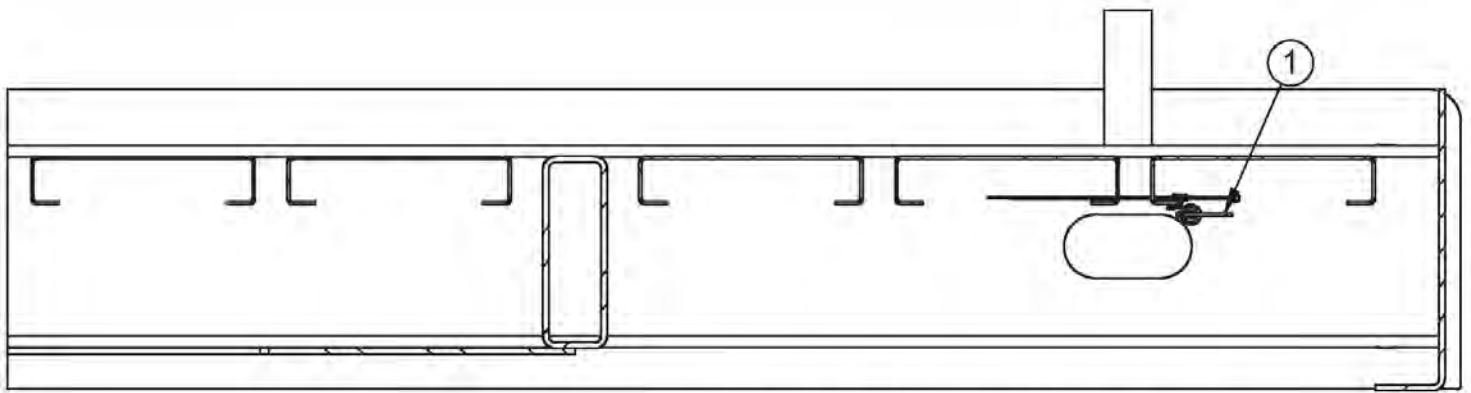




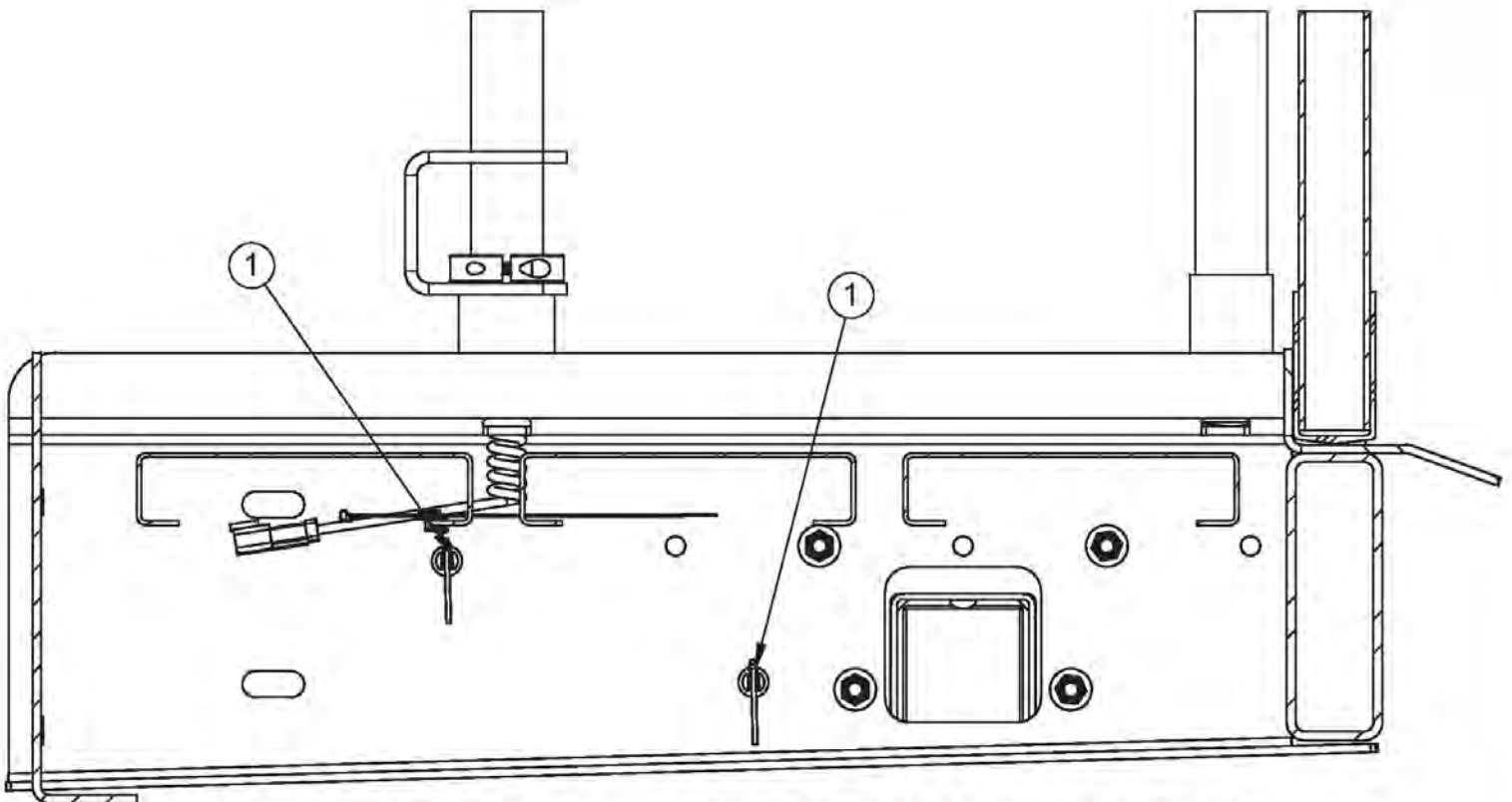




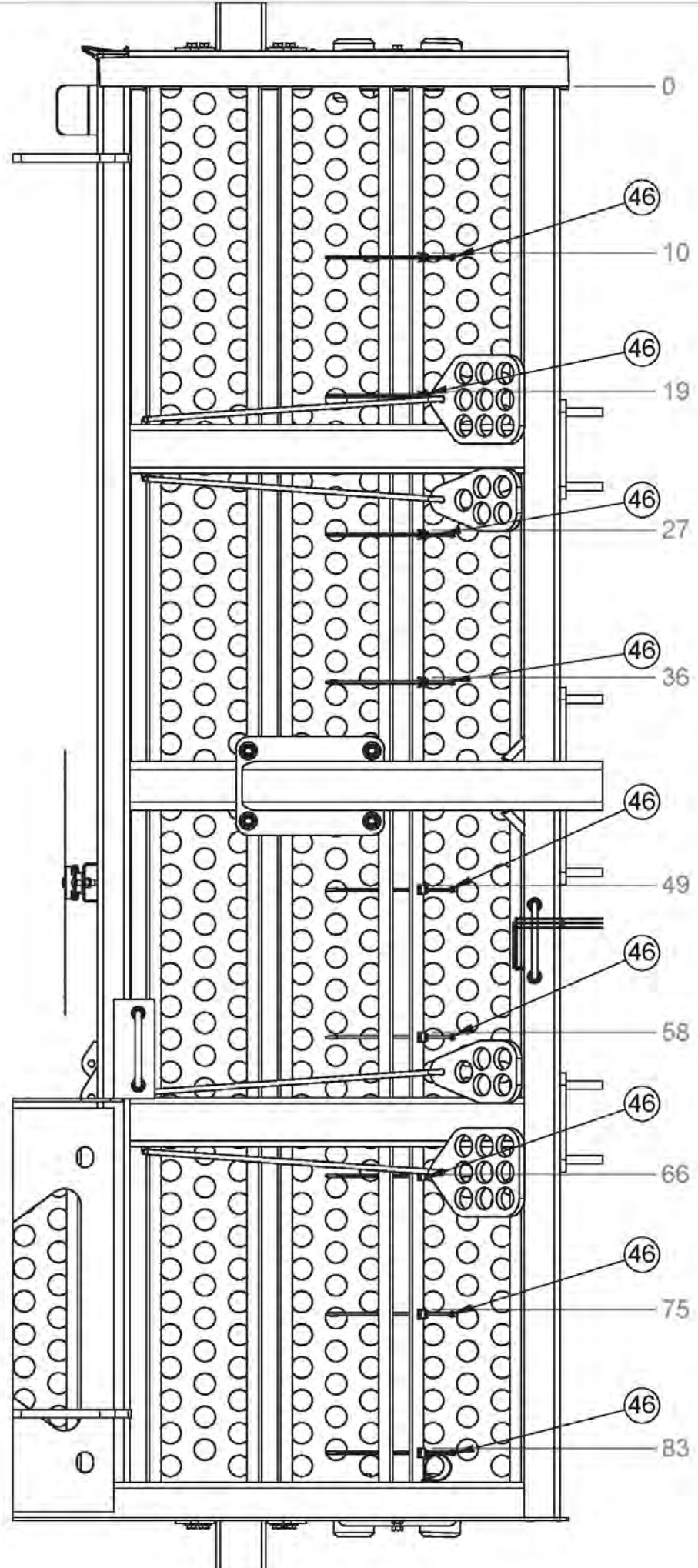
Cable Tie Mount Location (Left Side Near Switch)

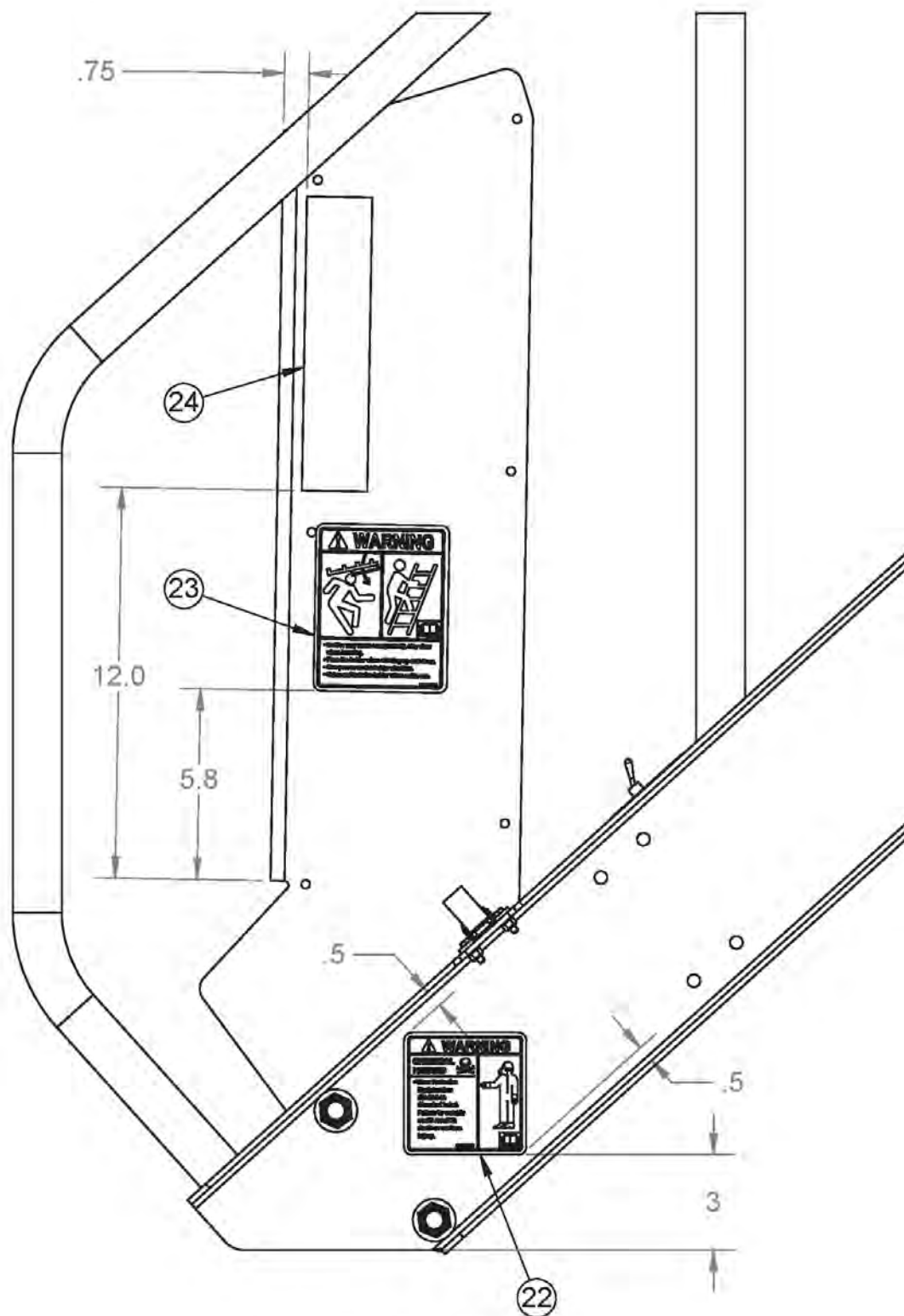


Cable Tie Mount Location (Left Side Looking Outwards)

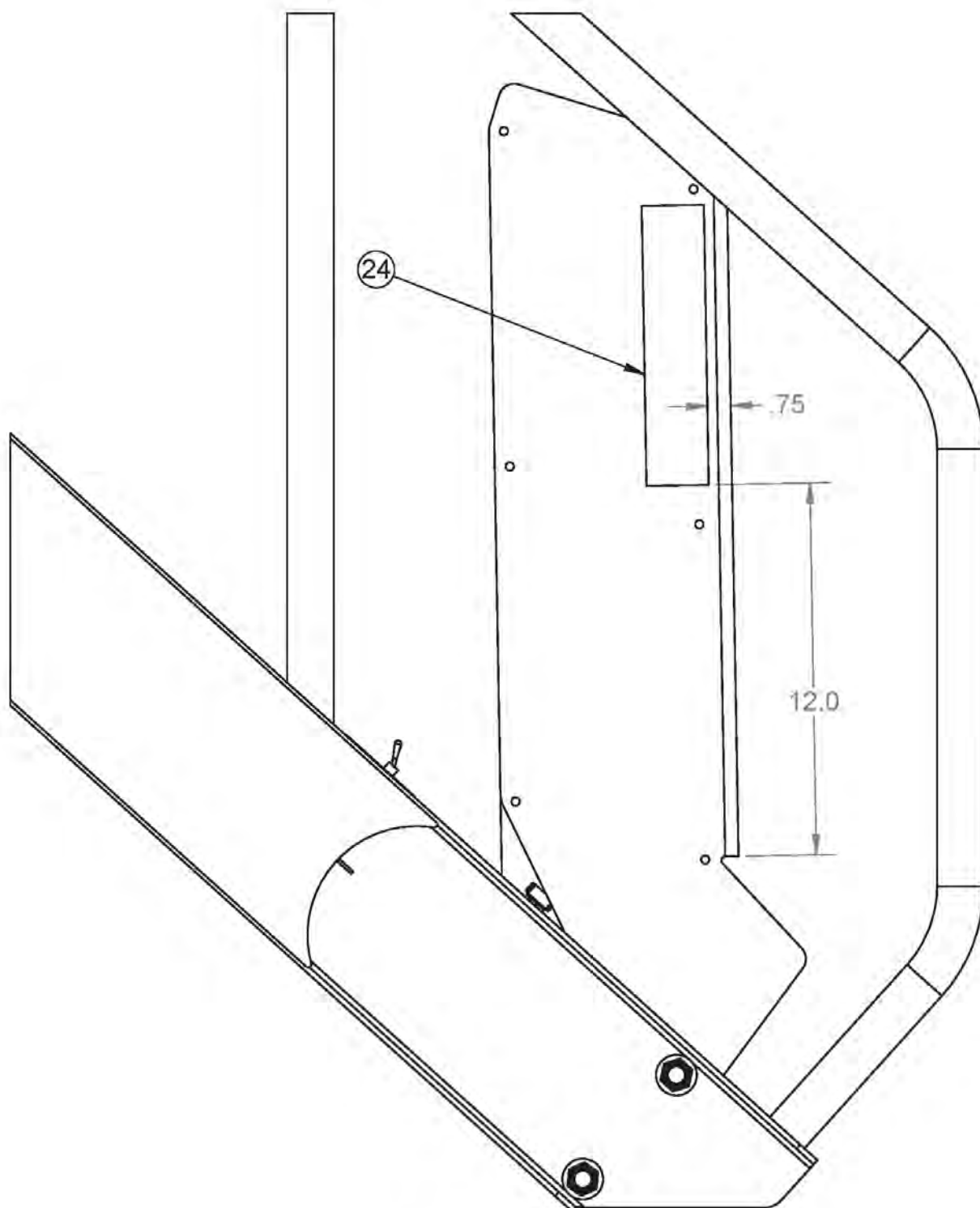


Cable Tie Mount Locations (Right Side, Looking Outward)

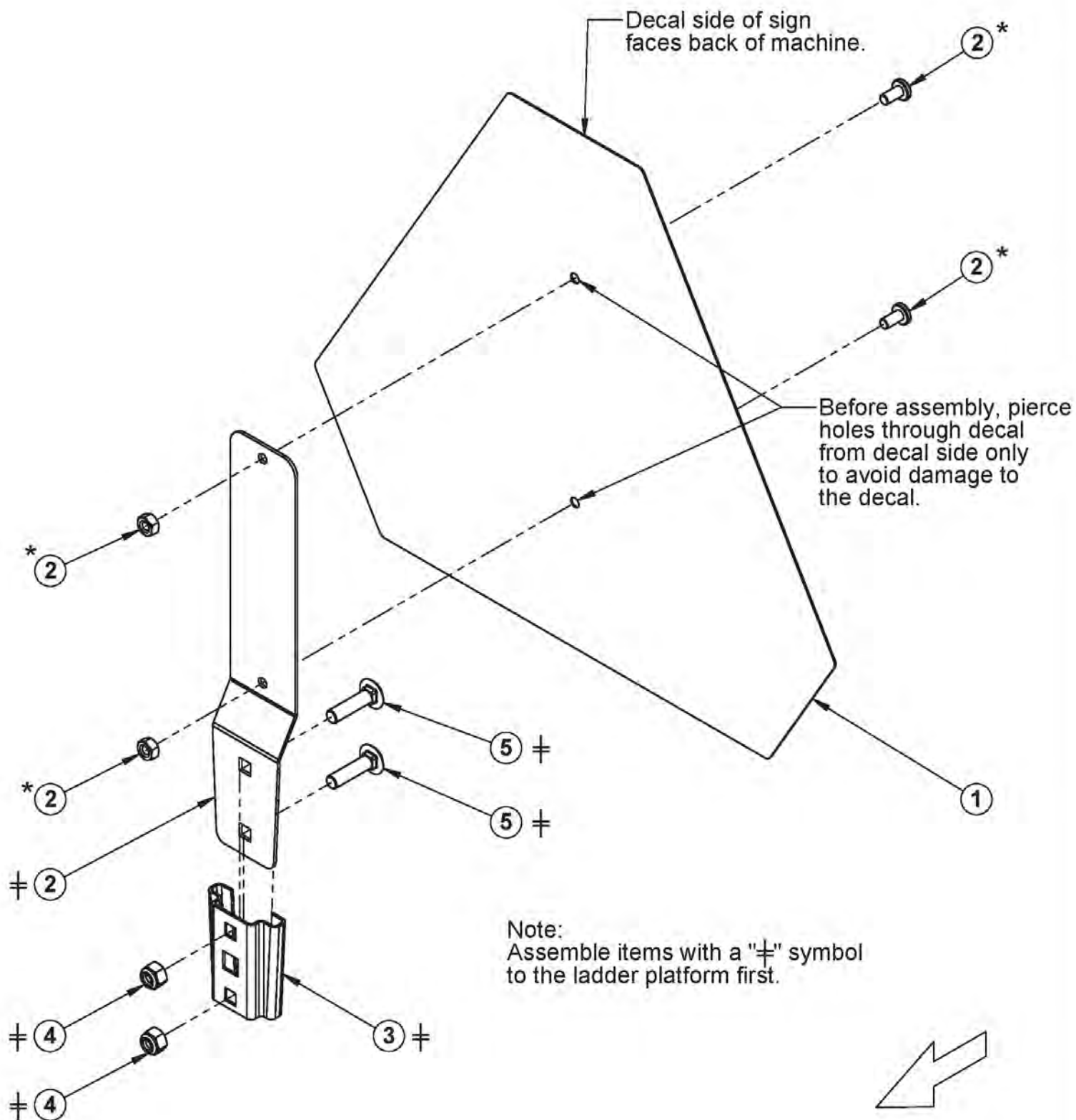




Right Hand Ladder View



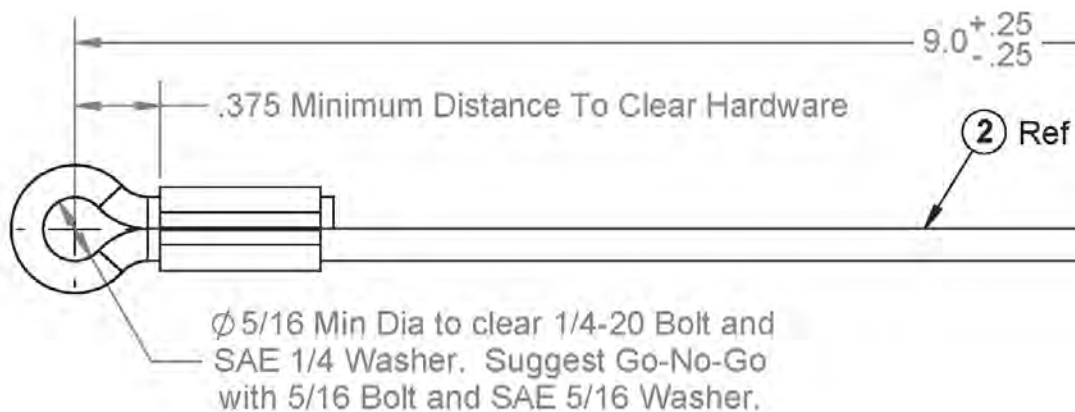
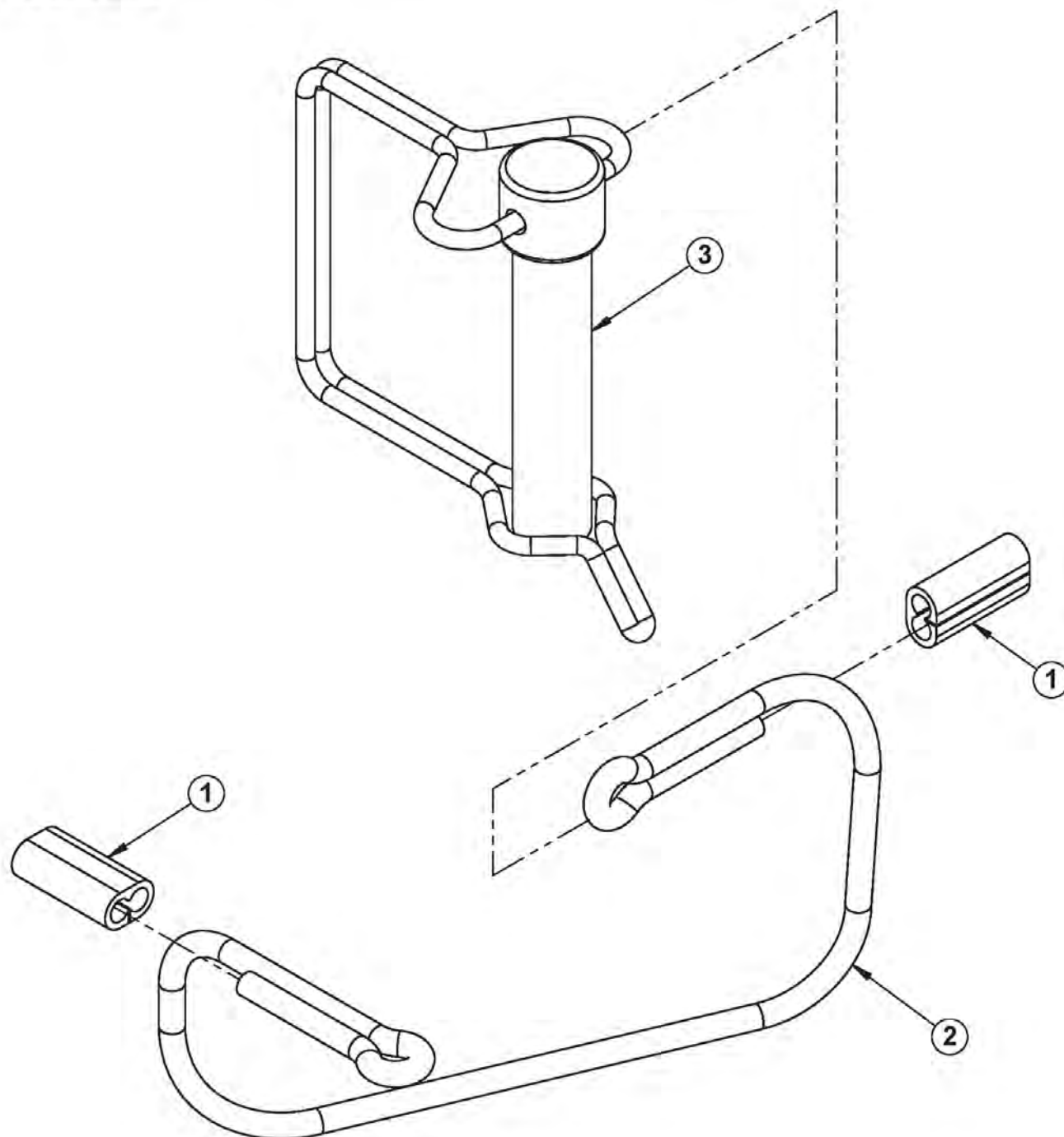
Left Hand Ladder View



TA00678 Assy, SMV Sign

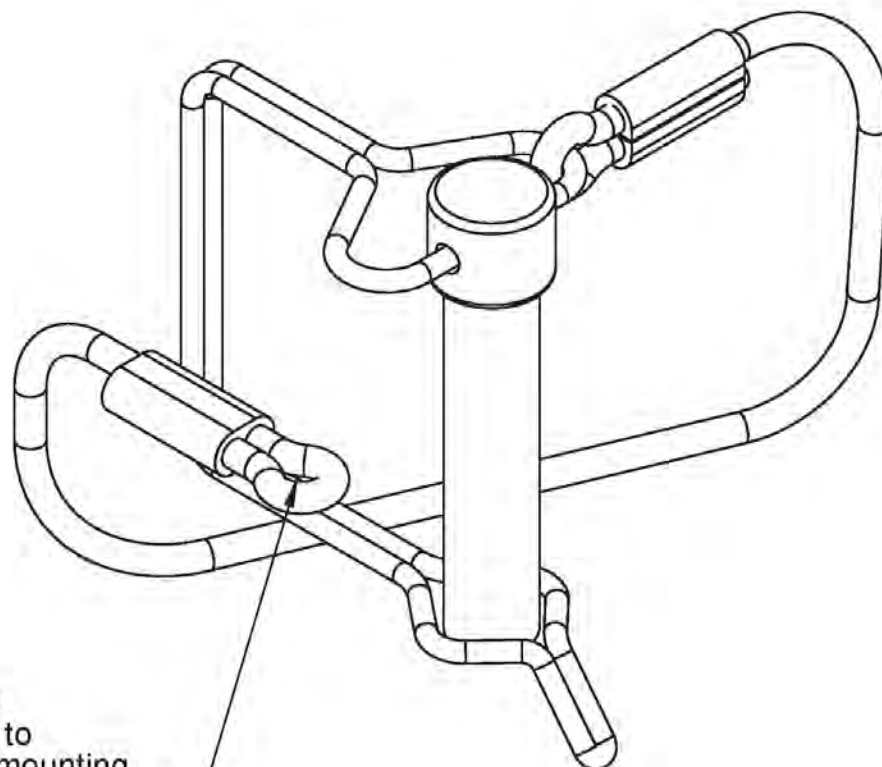
ITEM	PART NUMBER	DESCRIPTION	QTY	TORQUE (ft-lbs)
1	TA00670	Assy, SMV Plate w Decal	1	
2	TA00671	Assy, SMV Spade Mount	1	
3	T0051519	Receptacle, Female Spade SMV Sign	1	
4	NLNUT-0.313-18Y8	Nut, Nylock 5/16"-18-YZ8	2	
5	CB-0.313-18X1.25C5	RHSNBOLT 5/16-18x1.25-CZ5	2	

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

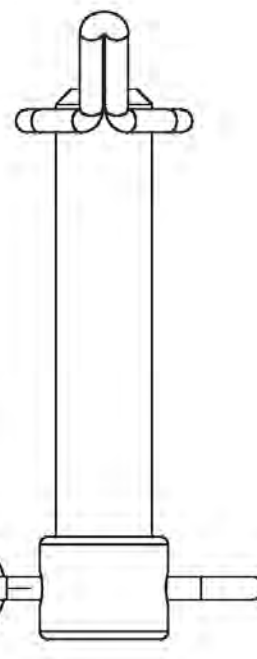


TA00791 Assy, Lynch Pin & Lanyard

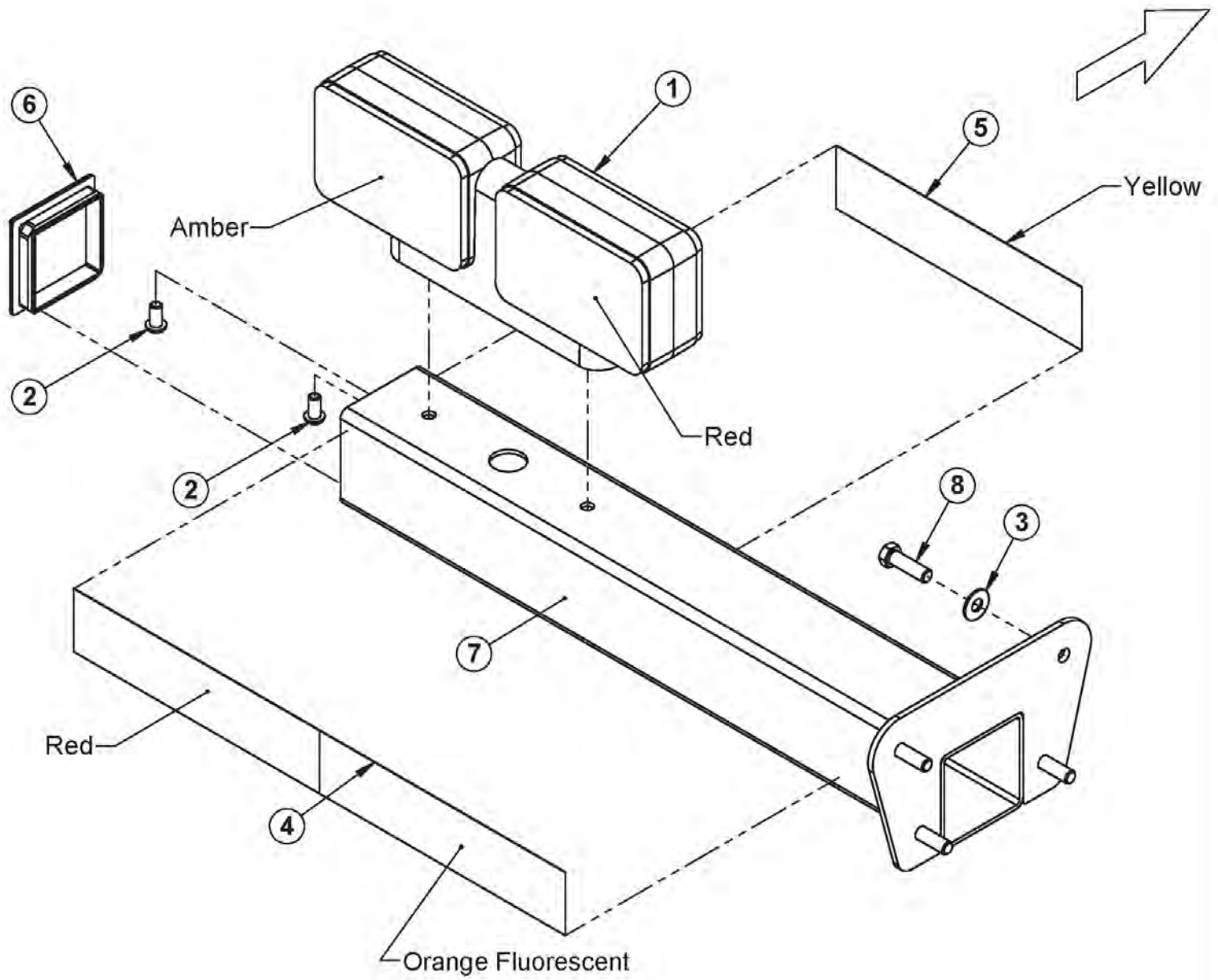
ITEM	PART NUMBER	DESCRIPTION	QTY	TORQUE (ft-lbs)
1	CBLCRMPBUSH-0.125	CableCrimpBushing-0.1250	2	
2	CBLLYD-0.125X12.00	Lanyard,Acrft Cbl NICtd 1/8x12	1	
3	SQSNPP-0.375X1.75Y	Pin, Lynch Square Ret Tab, Ø3/8x1.75	1	



This end
mounted to
handrail mounting
holes. See TA00780

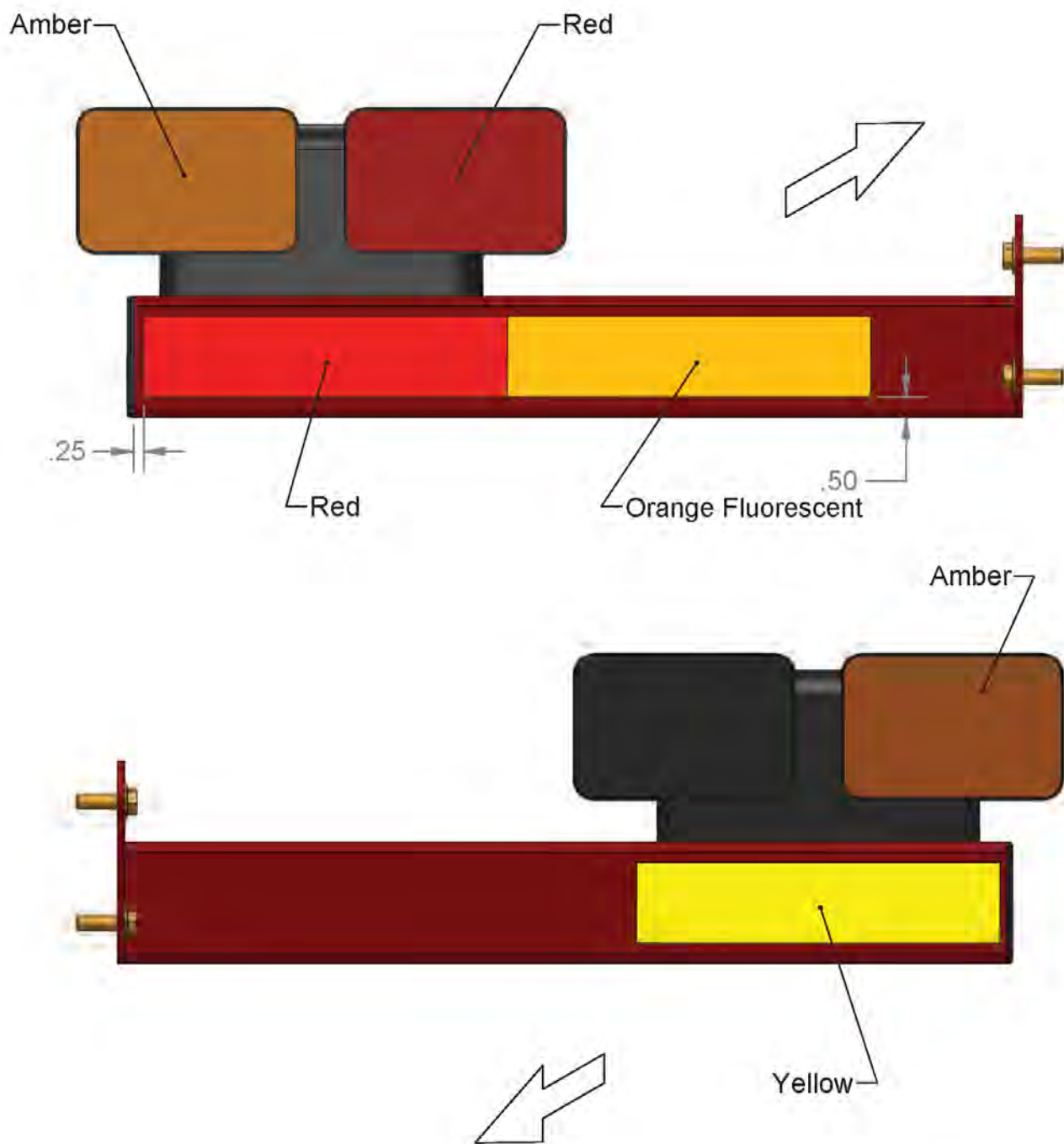


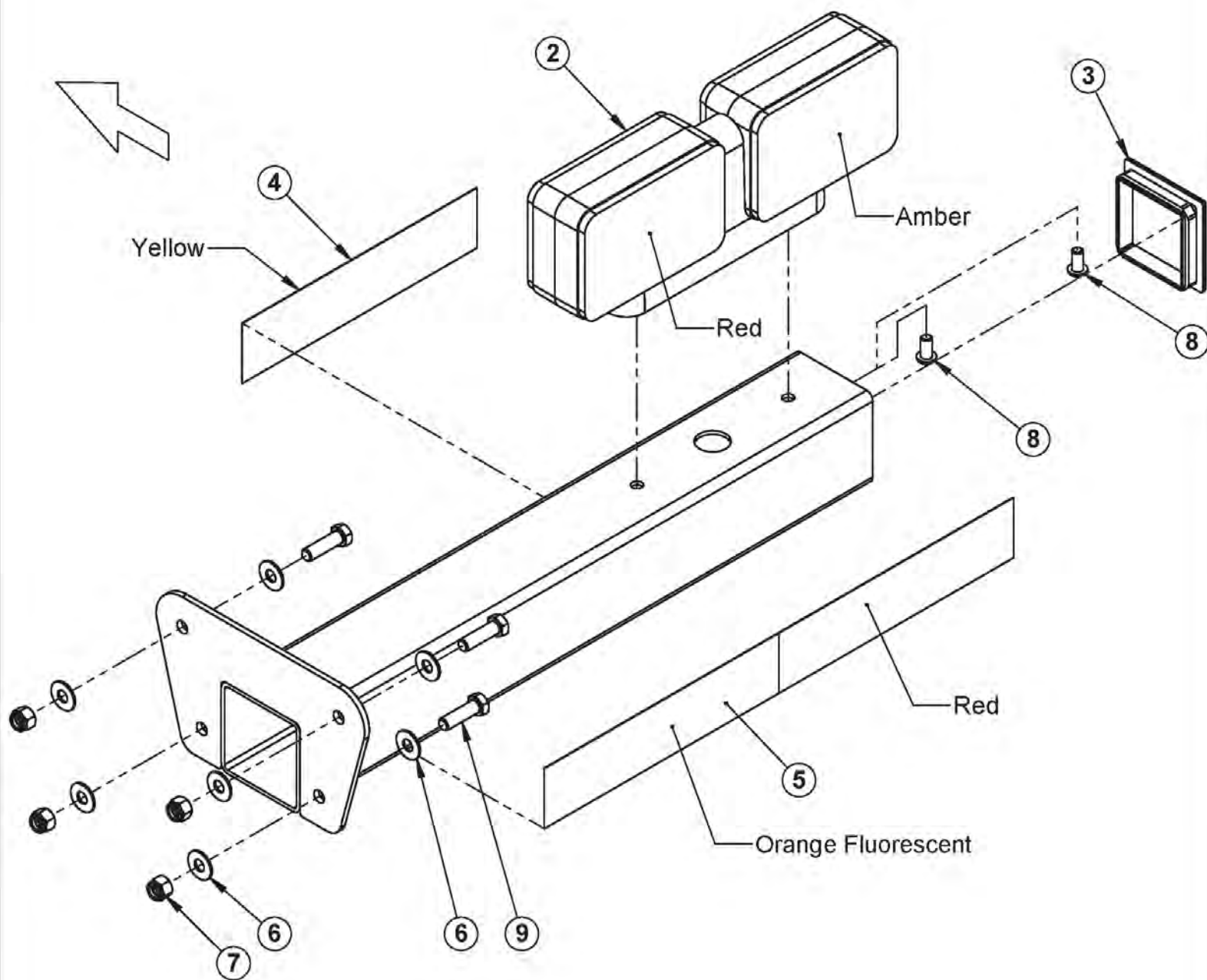
Cut To Length 12.0"



TA00811 Assy, Tail Light-LH

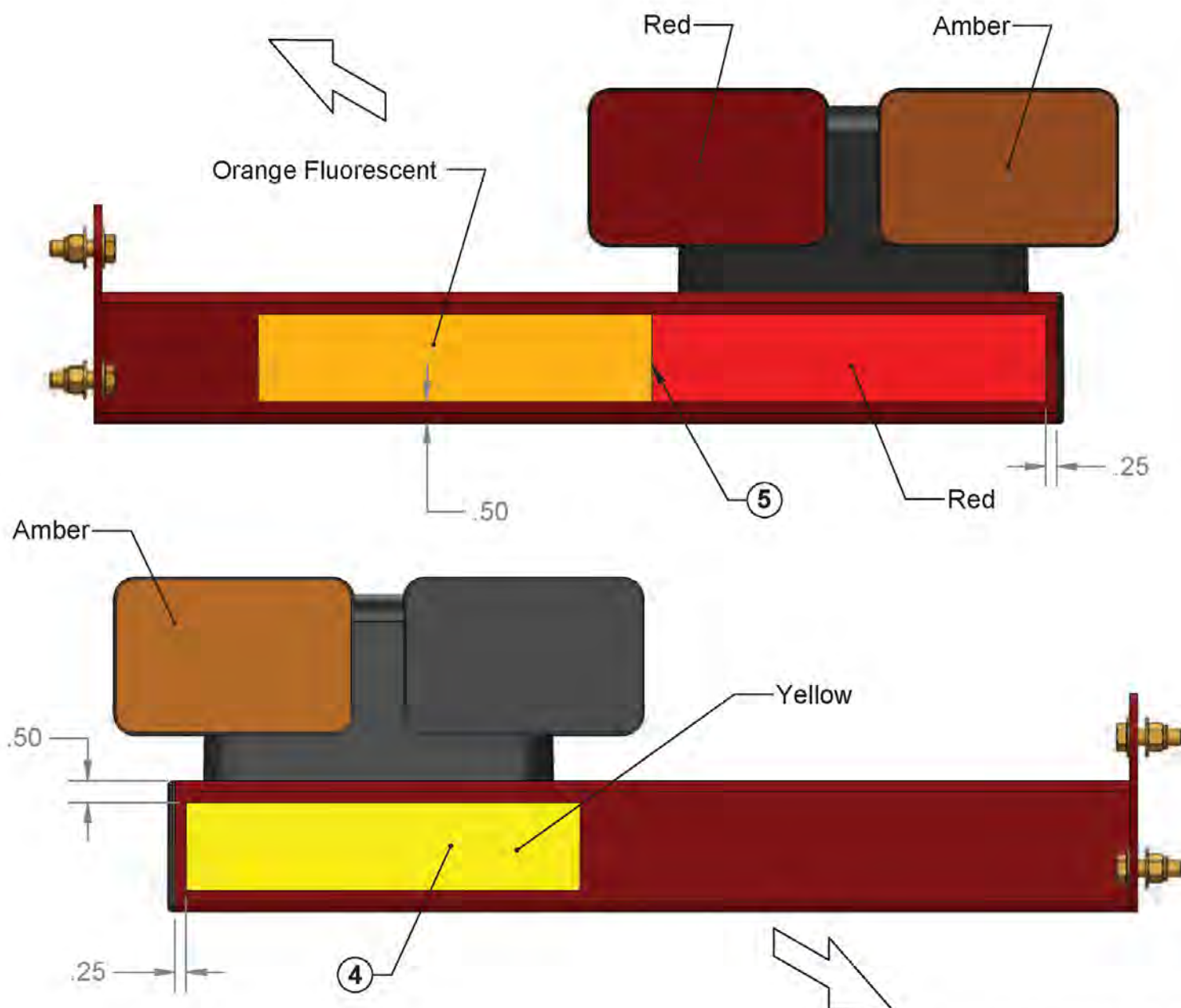
ITEM	PART NUMBER	DESCRIPTION	QTY.	TORQUE (ft-lbs)
1	86404264	Light Rear LH	1	
2	BHSCS-M8-1.25-16Y10.9	BtnSktCpScr M8-1.25x16 YZ10.9	2	
3	FW-USS-0.313Y	Washer, Flat USS 5/16-YZ	4	
4	T0051727	Decal, Refl Red,Orange-2x18	1	
5	T0051729	Decal, Reflector, Yellow-2x9	1	
6	T0052333	Plug, Square Tube - Finish	1	
7	TW000776	Wldmt, Tail Light Brkt	1	
8	HB-0.375-16X1.25Y8	Bolt, Hex Hd 3/8-16x1-1/4 YZ8	4	

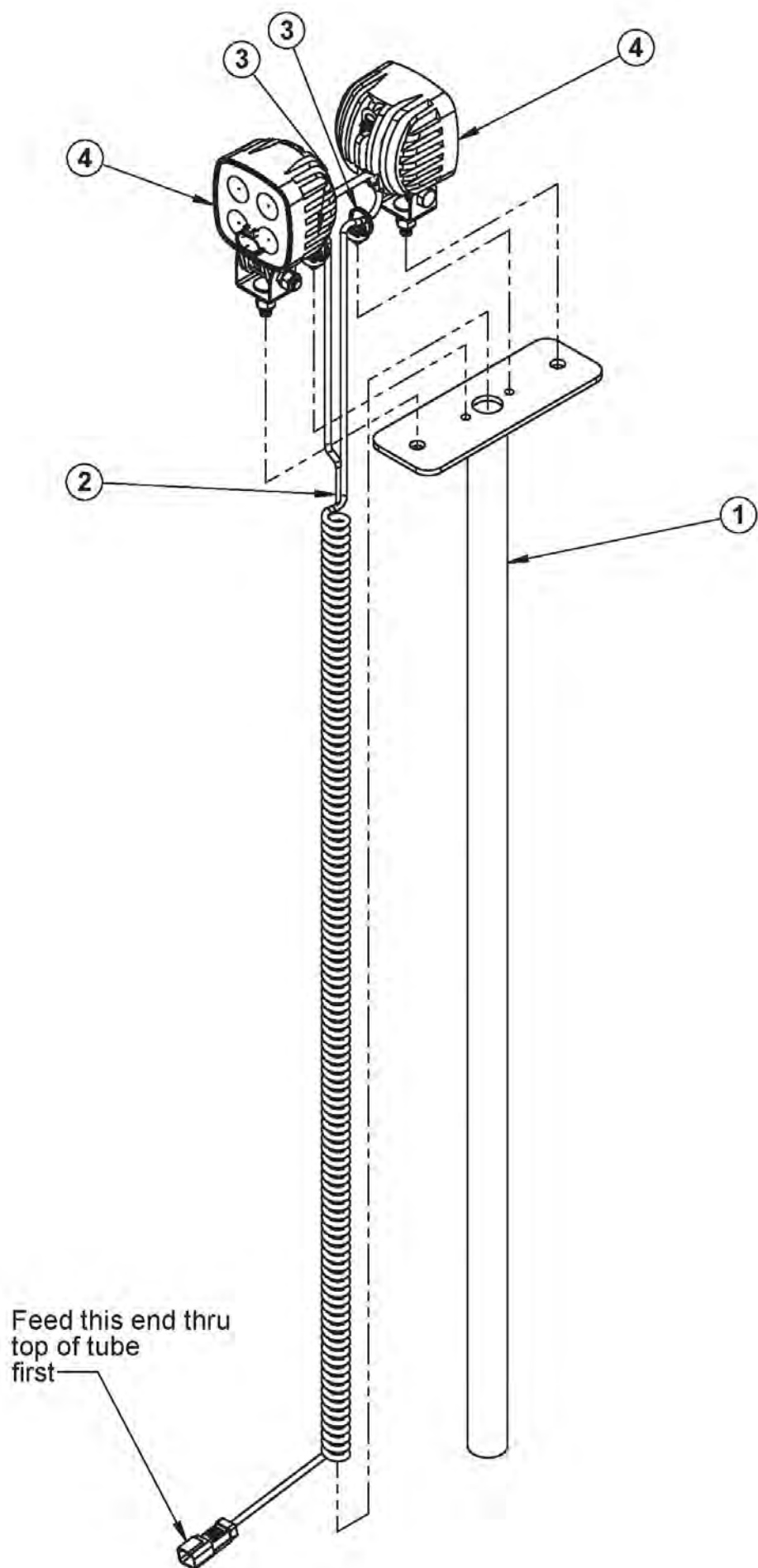




TA00812 Assy, Tail Light-RH

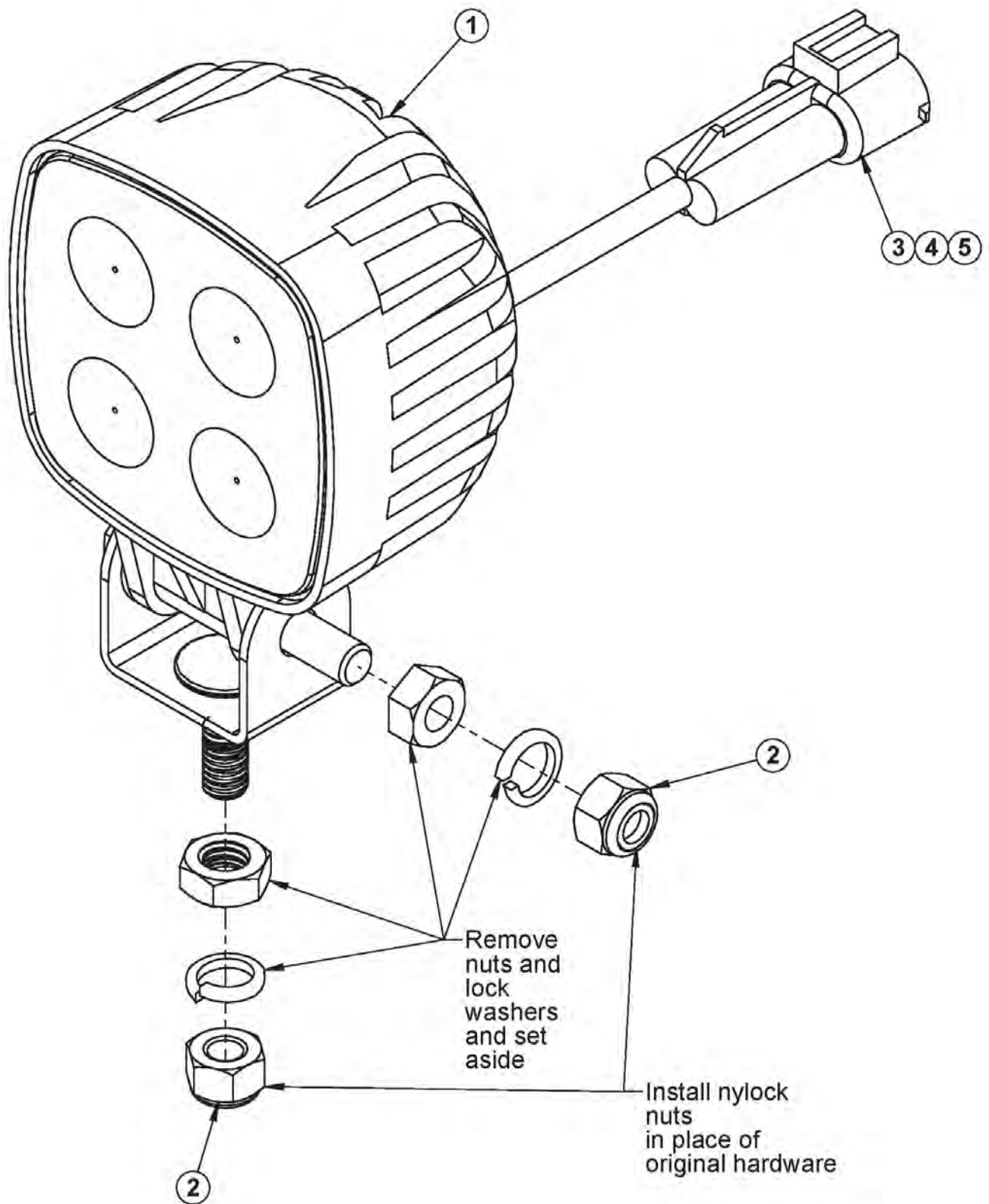
ITEM	PART NUMBER	DESCRIPTION	QTY.	TORQUE (ft-lbs)
1	TW000776	Wldmt, Tail Light Brkt	1	
2	86404265	Light Rear RH	1	
3	T0052333	Plug, Square Tube - Finish	1	
4	T0051729	Decal, Reflector, Yellow-2x9	1	
5	T0051727	Decal, Refl Red, Orange-2x18	1	
6	FW-USS-0.313Y	Washer, Flat USS 5/16-YZ	8	
7	NLNUT-0.375-16Y8	Nut, Nylock 3/8-16 YZ8	4	
8	BHSCS-M8-1.25-16Y10.9	BtnSktCpScr M8-1.25x16 YZ10.9	2	
9	HB-0.375-16X1.25Y8	Bolt, Hex Hd 3/8-16x1-1/4 YZ8	4	





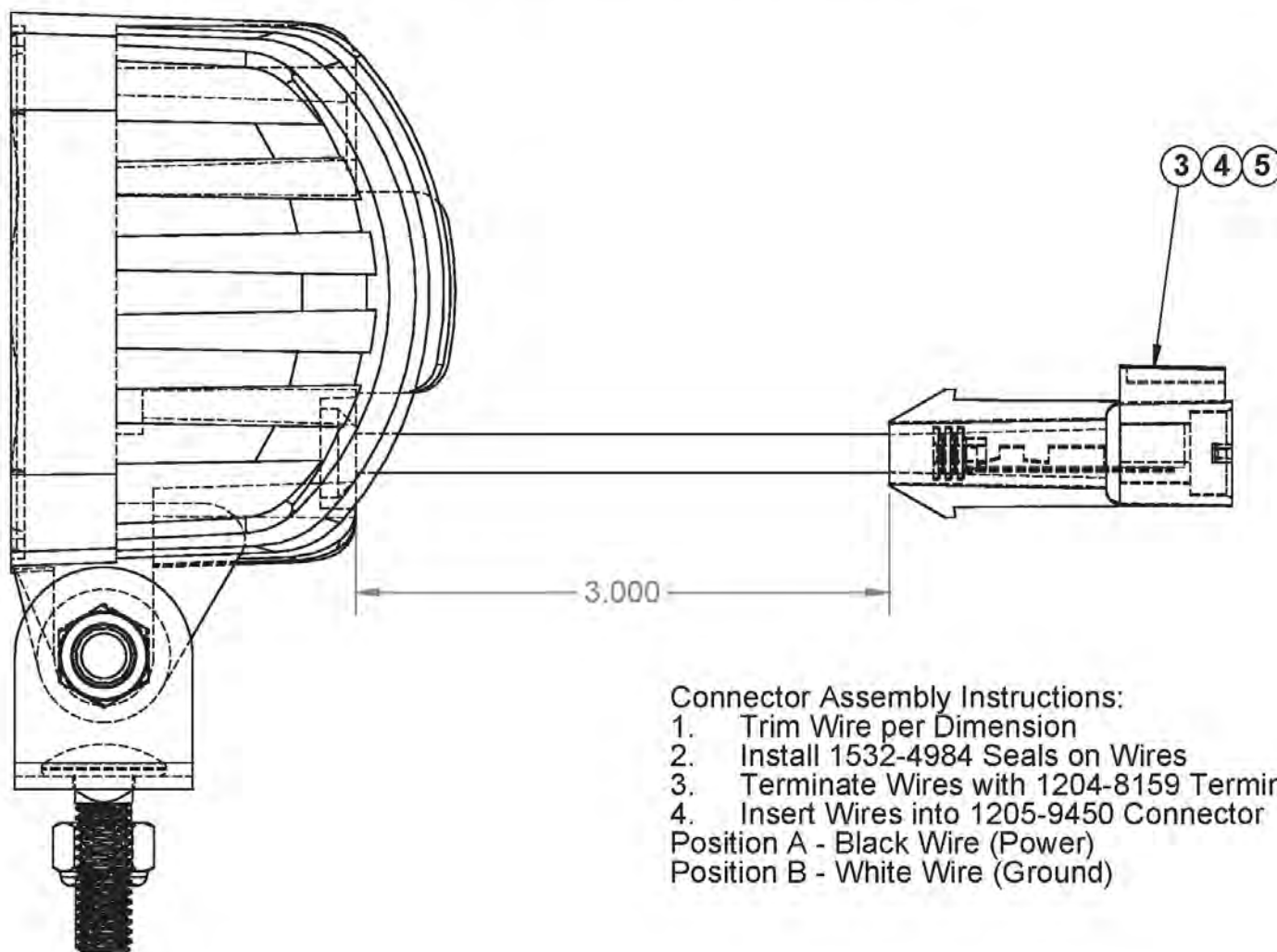
TA01247 Assy, Light Arm Extension

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	



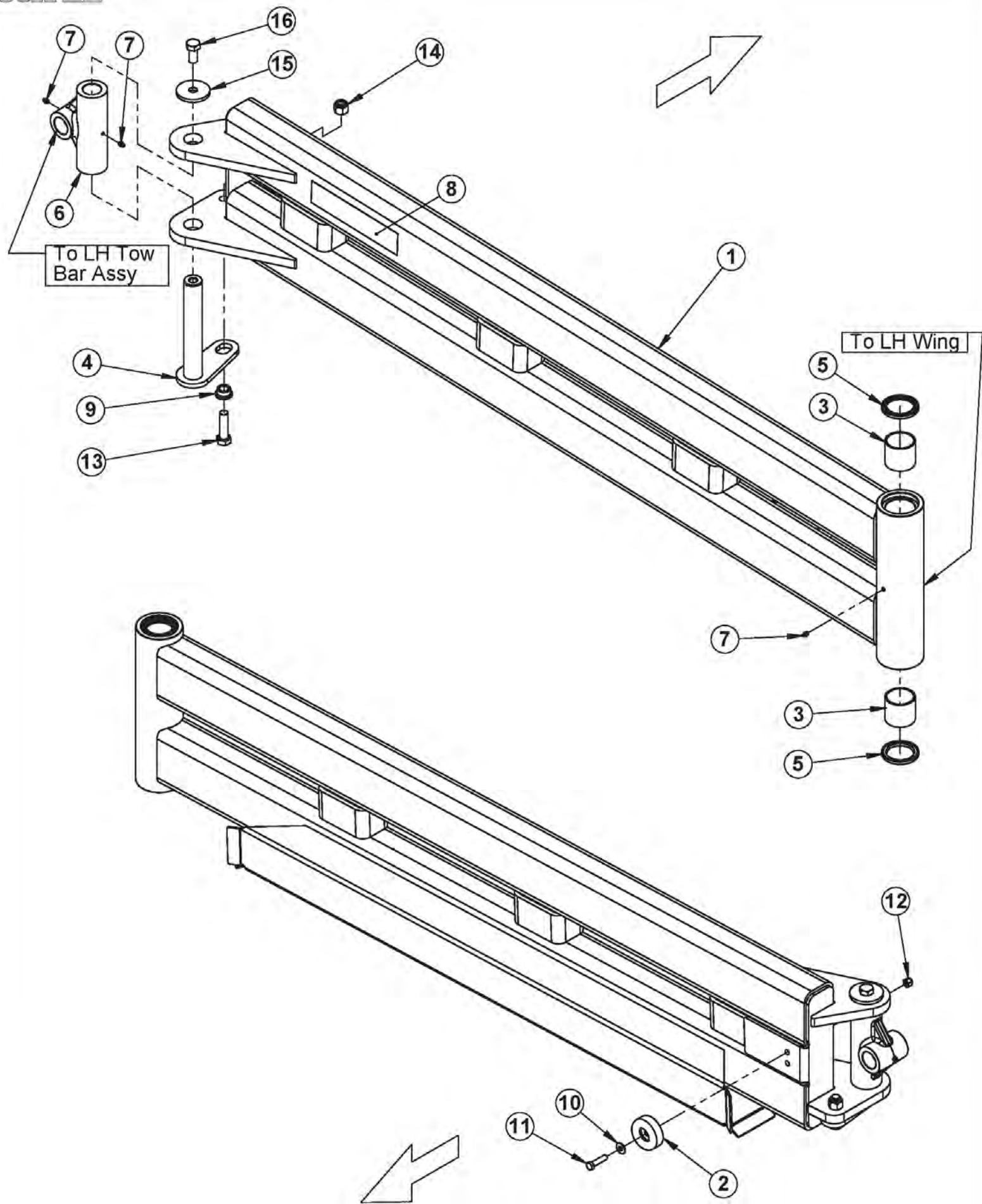
TA01737 Assy, Work Light

ITEM	PART NUMBER	DESCRIPTION	QTY.	TORQUE (ft-lbs)
1	T0055591	Lamp, Flood LED 18W	1	
2	NLNUT-0.313-18SS	Nut, Nylock 5/16"-18-SS	2	
3	12059450	Connector, 2-Way Metri-Pack 280	1	
4	15324984	Cable Seal, Metri-Pack 280 Series Tan	2	
5	12048159	Terminal, Metri-Pack 280 Series 16-18 Ga	2	



Connector Assembly Instructions:

1. Trim Wire per Dimension
 2. Install 1532-4984 Seals on Wires
 3. Terminate Wires with 1204-8159 Terminals
 4. Insert Wires into 1205-9450 Connector
- Position A - Black Wire (Power)
Position B - White Wire (Ground)

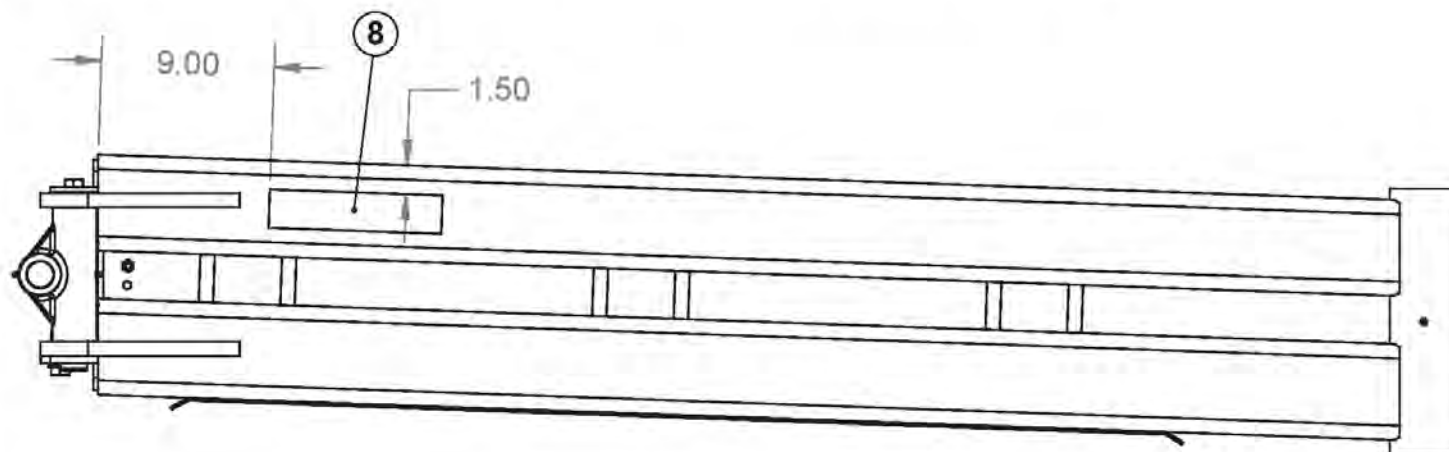


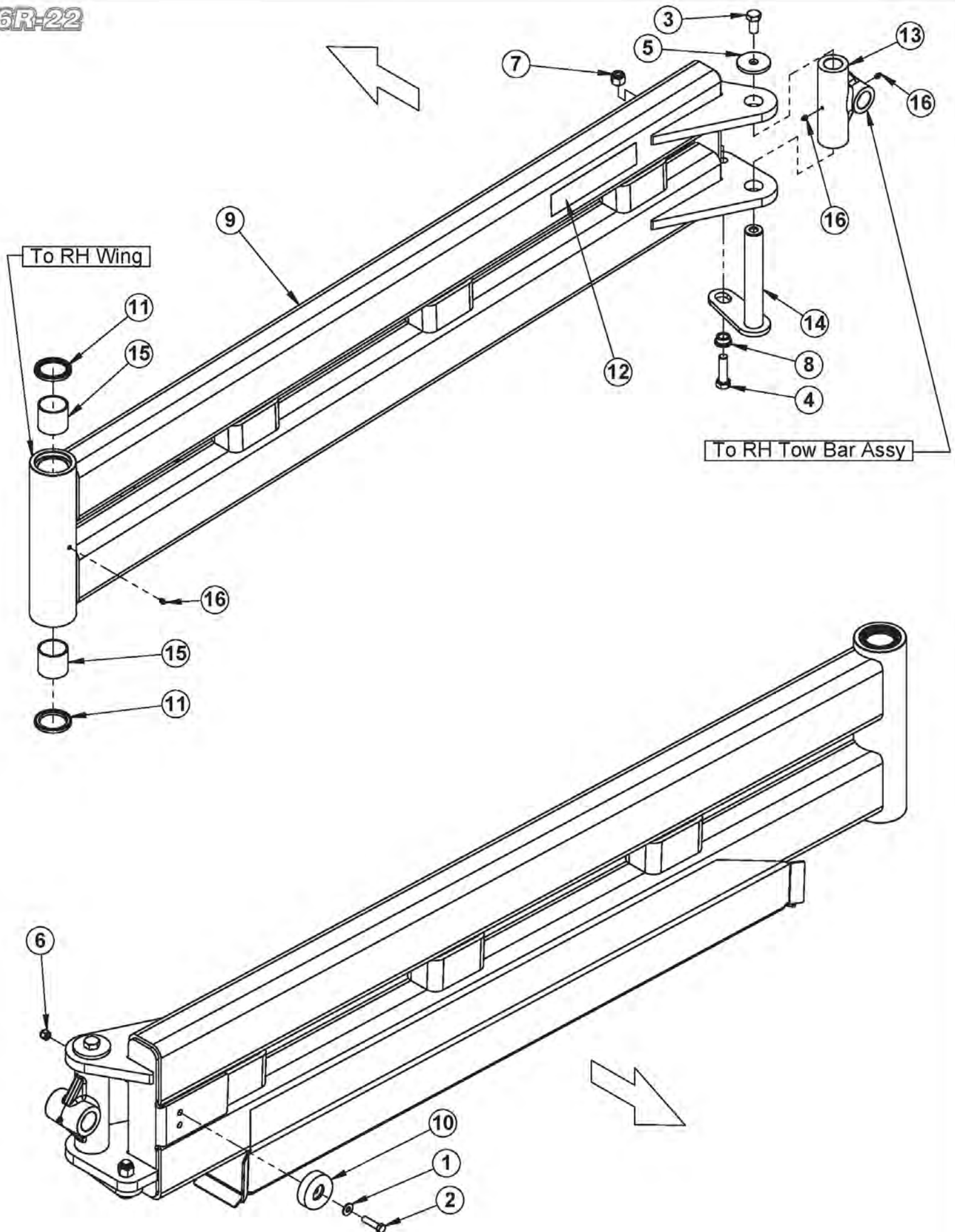
TA01360 Assy, Tow Bar Gate - LH

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.



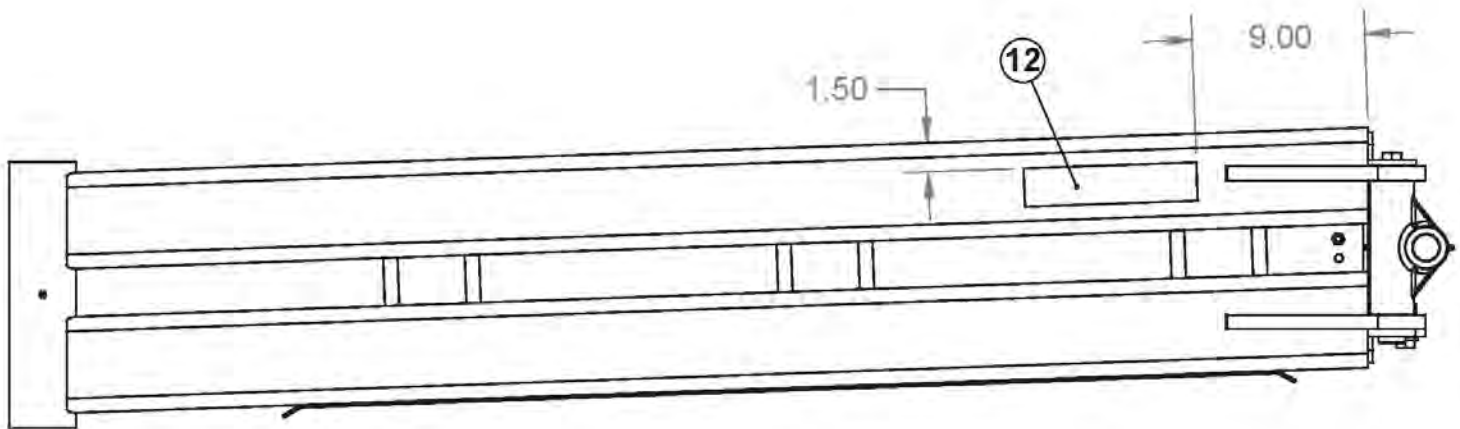


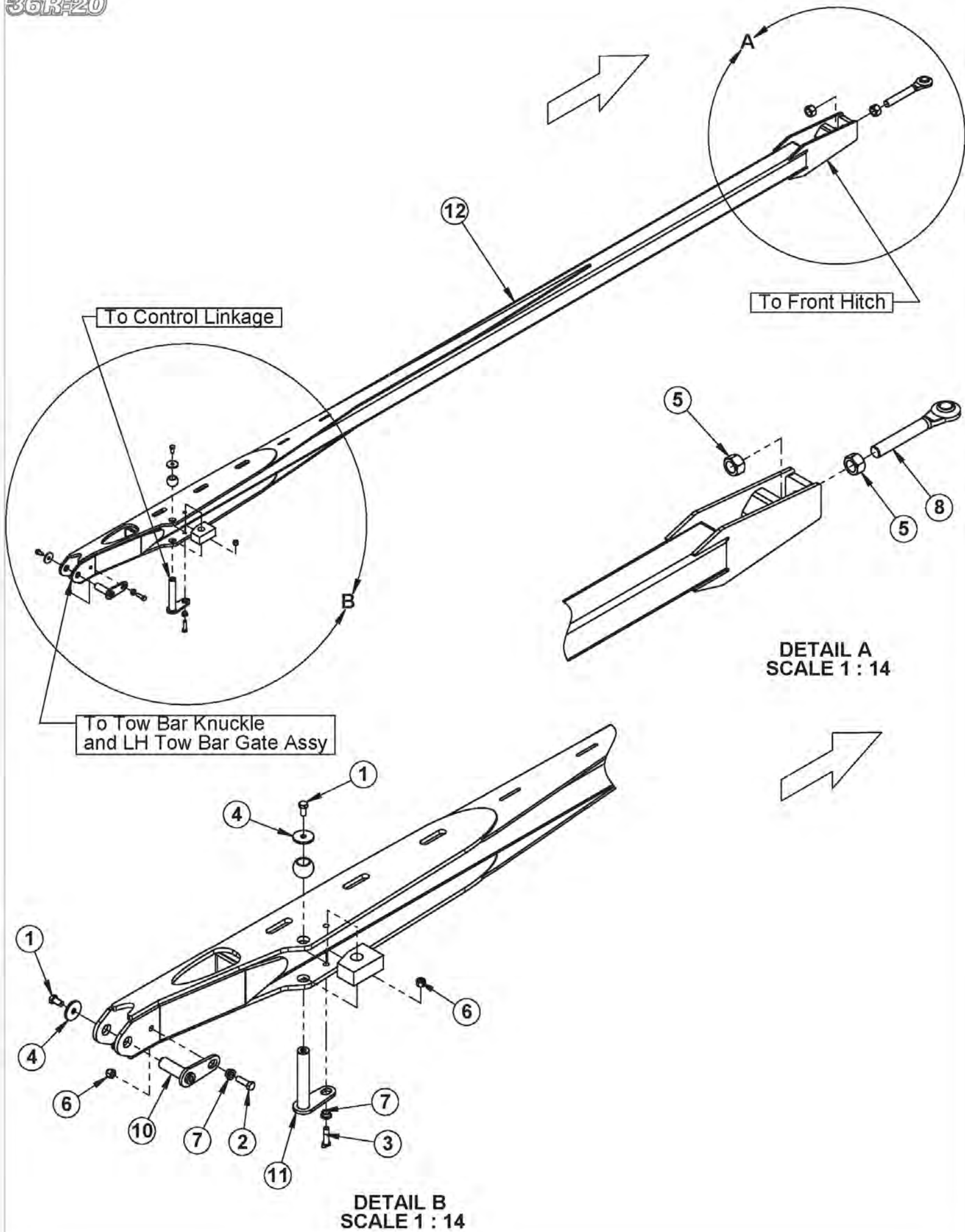
TA01361 Assy, Tow Bar Gate - RH

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	Wdmt, 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:

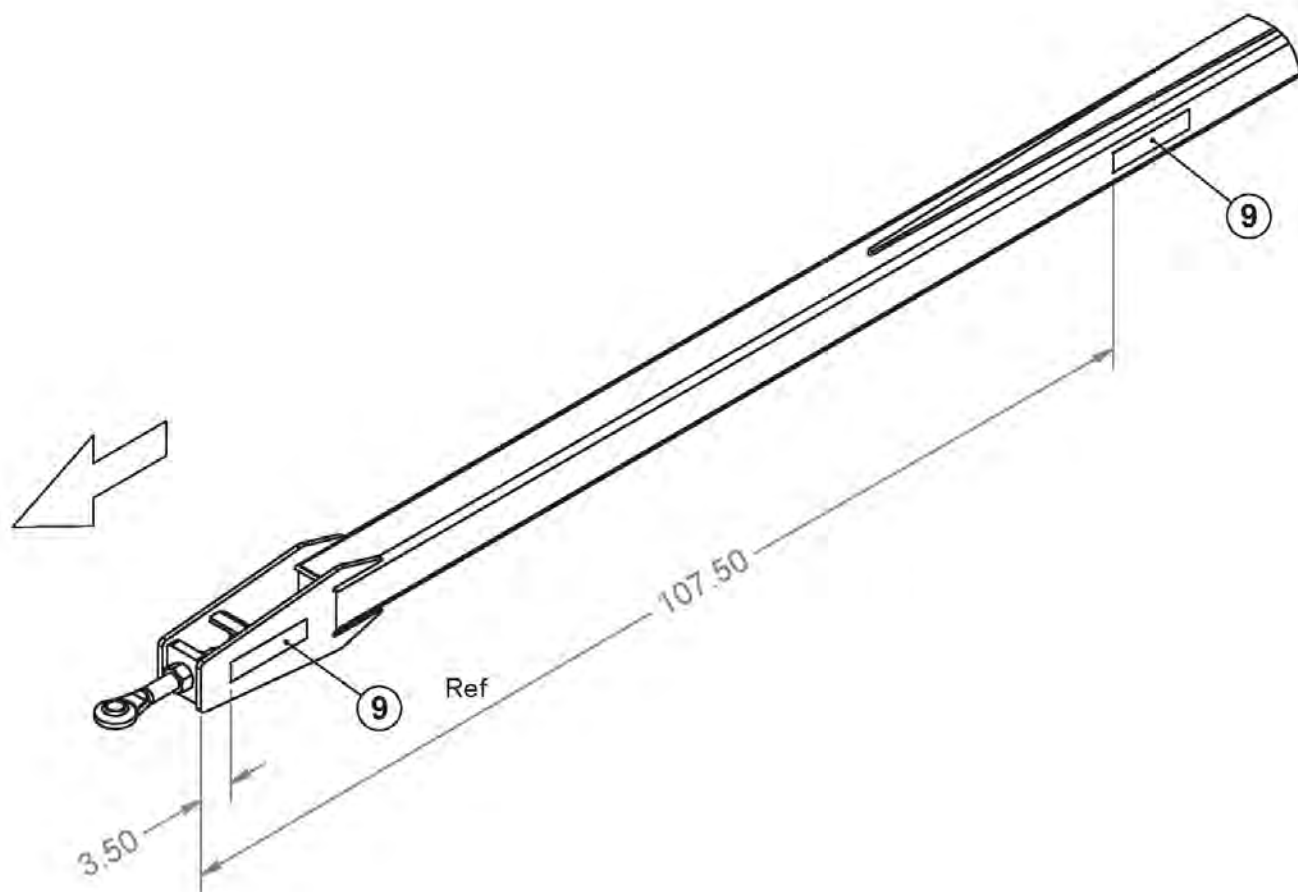
1. T=XXX = Torque Expressed in ft-lbs (Use standard torque values from drawing T0000000 unless otherwise specified.
2. * Items marked with an asterisk are items that are included in that particular part or assembly.

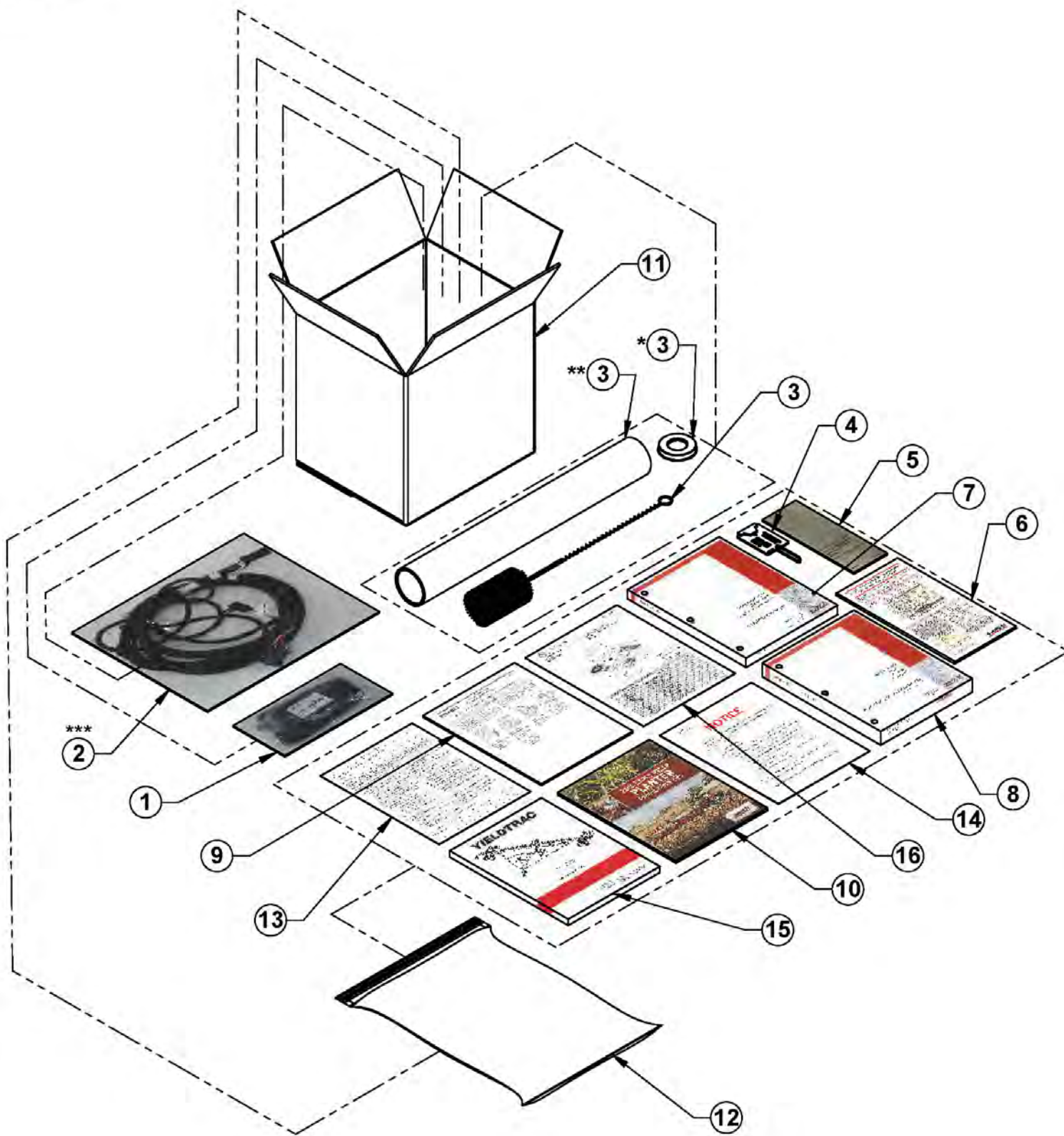




TA01354 Assy, Tow Bar

ITEM	PART NUMBER	DESCRIPTION	QTY	TORQUE (ft-lbs)
1	HB-0.625-11X1.25Y8	Bolt, Hex Head-5/8-11x1.25-YZ8	2	
2	HB-0.625-11X2.00Y8	Bolt, Hex Head-5/8-11x2-YZ8	1	
3	HB-0.625-11X2.25Y8	Bolt, Hex Head-5/8-11x2.25-YZ8	1	
4	HDWSH-0.64X2.50Y	HD Washer 0.64 x 2.50	2	
5	HNUT-1.500-6Y8	Nut, Hex 1-1/2-6 YZ8	2	
6	NLNUT-0.625-11Y8	Nut, Nylock-5/8-11-YZ8	2	
7	T0050854	Anti Rotation Insert	2	
8	T0051213	RH End Link	1	
9	T0051729	Decal, Reflector, Yellow-2x9	2	
10	TW000763	Pin Weldment	1	
11	TW000894	Pin Weldment	1	
12	TW001211	Wldmt, Tow Bar	1	
13	T0053376	Block, Tow Bar	1	





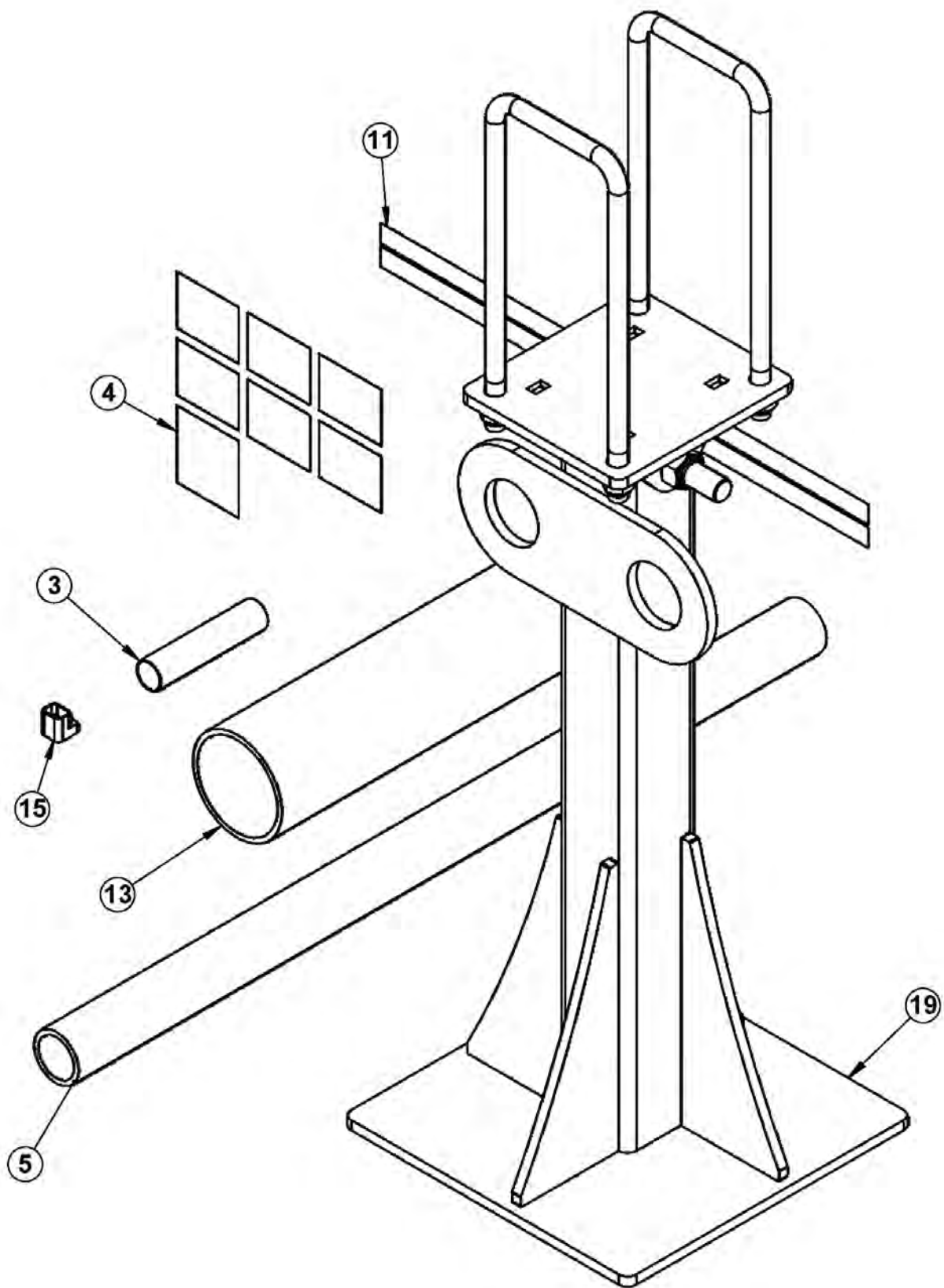
TA01577 Operator's Package 2017 24R30

ITEM	PART NUMBER	DESCRIPTION	QTY
1	T0054395	Harness, Product Calibration	1
2	47453857	Harness, Tractor Compressor <i>(If Equipped With PDP)</i>	1
3	346290A1	Brush, Seed Tube	1
4	1958225C4	Firming Point Gauge	1
5	47403737	AFS Planting Software QRC	1
6	47454041	Early Riser AFS QRC v28	1
7	47747526	1255 Operator's Manual	1
8	47799612	Planter Software Manual v30	1
9	L-1381	HyPro Pump Manual	1
10	PL-3101-15	Early Riser Productivity Tips	1
11	T0051794	Box, Cardboard 12X10X12	1
12	T0051793	Bag, Recloseable-13"x18" 6Mil	1
13	T0055155	Chcklst, PDI&Startup 2017	1
14	T0052697	Notice, Track Alignment	1
15	T0055178	Manual, Operator's 2017	1
16	T0055175	Chklst, Oper Pkg 24R30 2017	1

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

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

*** The tractor compressor harness is not included if the planter is Precision Ready.

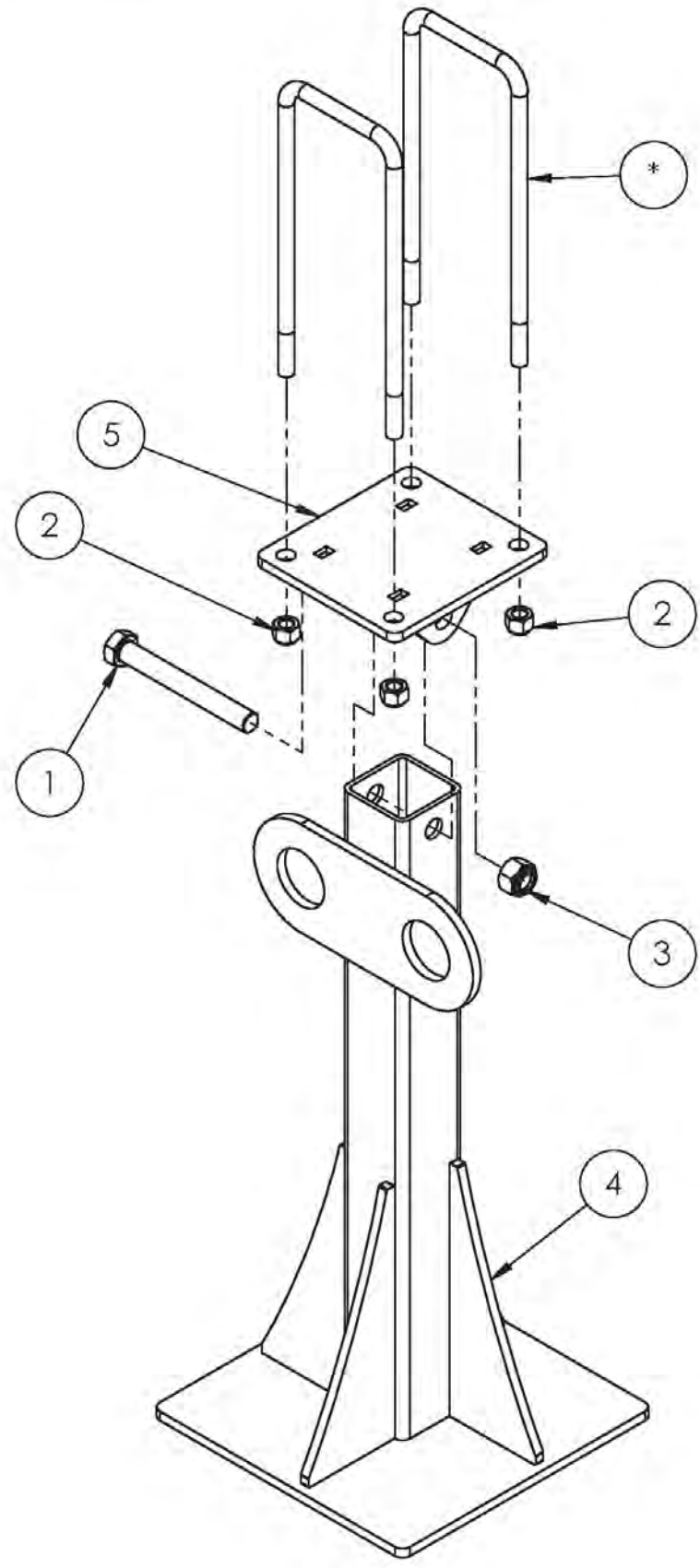


TA01584 Assy, Bulk Material 24R30

ITEM	PART NUMBER	DESCRIPTION	QTY.	TORQUE (ft-lbs)
1	73341728	Bulk Oil, UltrAction (per gal)	15	
2	T0051552	Sticker-Tite Rubber Gasket Cut Length 36.63"	35	
3	T0051572	Hose Sleeve - 1.25" ID x 6.00"	24	
4	T0051654	Decal Kit, Hose ID	1	
5	T0051670	Hose, Vacuum 2" (per ft)	75	
6	T0051672	Hose, 1.00" PVC (per ft)	600	
7	T0052462	Harness, Height Sensor Ext.	1	
8	T0052516	Gear Lube 80W90 (per gal)	1	
9	T0052527	Harness, Calibration Ext.	1	
10	T0052528	Spiral Poly Wrap 1.00 (per ft)	40	
11	T0052540	Decals, 24 Row Unit Numbers	1	
12	T0052629	Harness - Speed Sensor Extension 26'	2	
13	T0054572	Hose, Vacuum 5.5" (per ft)	10	
14	T0054833	Harness, Frame Control CNH	1	
15	T0055034	Plug, Terminator	1	
16	T0055167	Harness, ISO Hitch 588"	1	
17	TA00882	Hose Kit, Fertilizer Control	1	
18	TA01585	Hose Kit, TM24R30 Base	1	
19	TA01705	Assy, Shipping Stand	1	

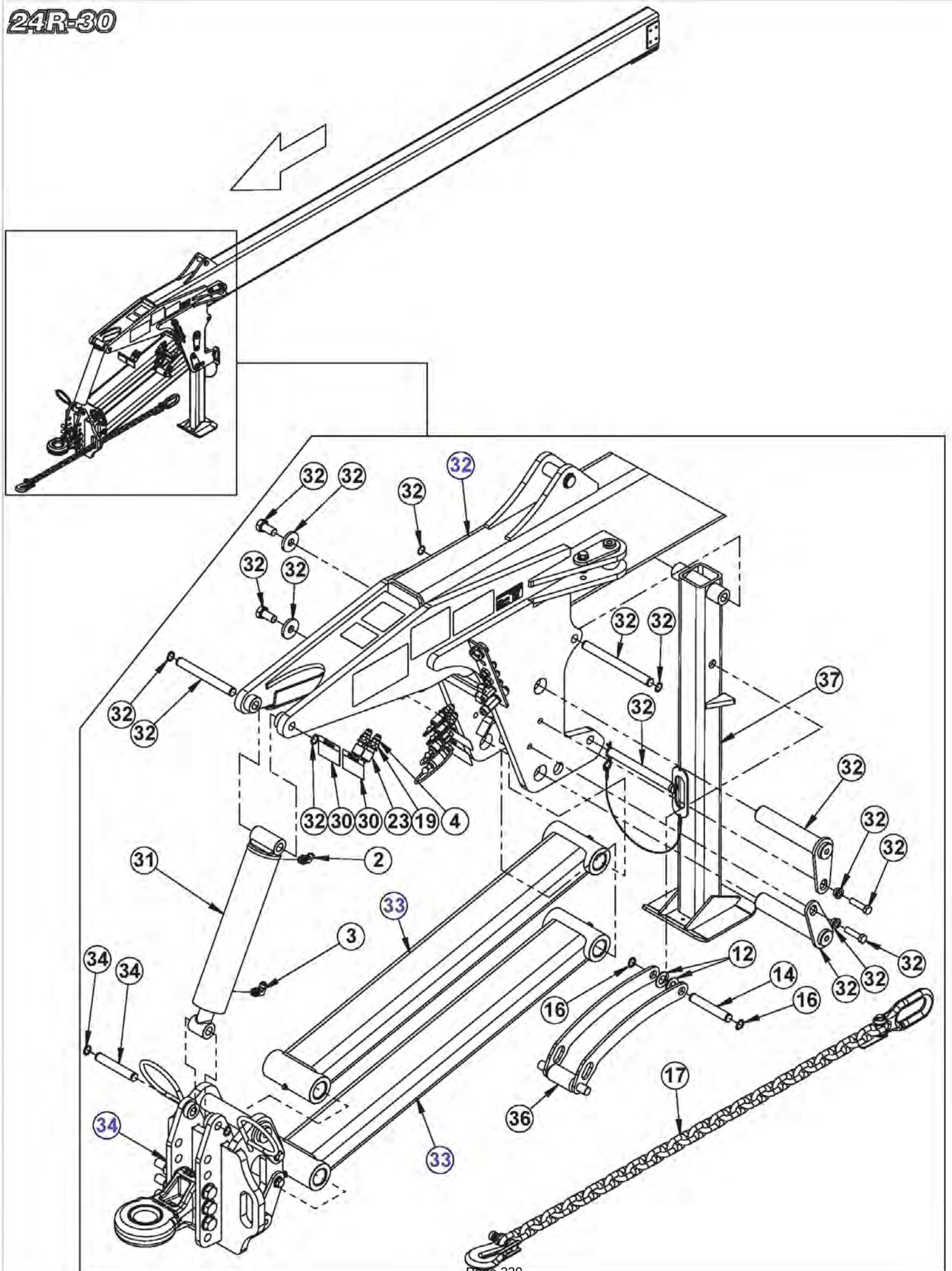
Note:

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.



TA01705 Assy, Shipping Stand

ITEM	PART NUMBER	DESCRIPTION	QTY.	TORQUE (ft-lbs)
1	HB-1.000-8X8.00Y8	Bolt, Hex Hd-1-8x8-YZ8	1	
2	NLNUT-0.750-10Y8	Nut, Nylock 3/4-10-YZ8	4	
3	NLNUT-1.000-8Y8	Nut, Nylock-1.0-8-YZ8	1	
4	TW000805	Wdmt, Stand	1	
5	TW000806	Wdmt, Pivot	1	

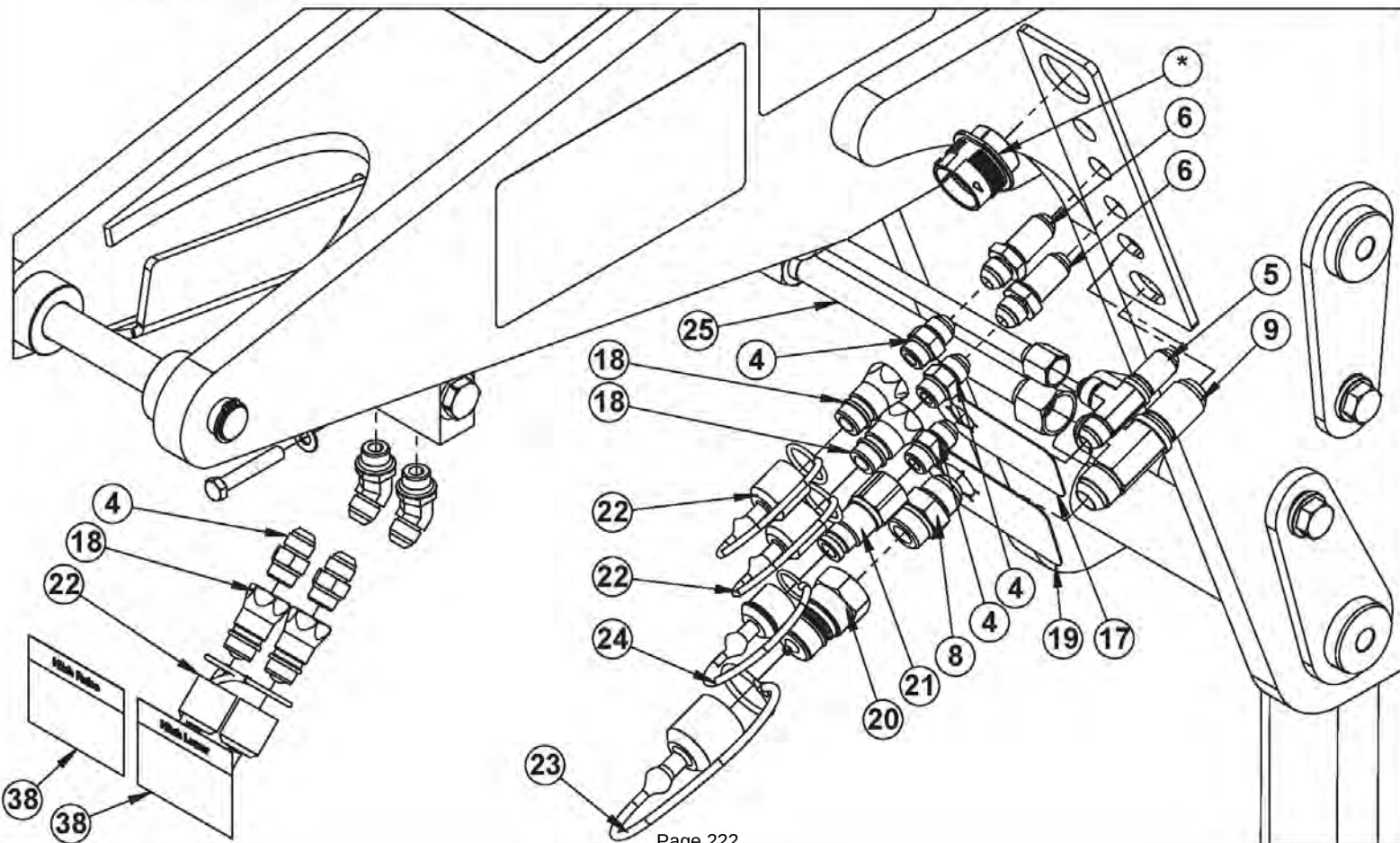
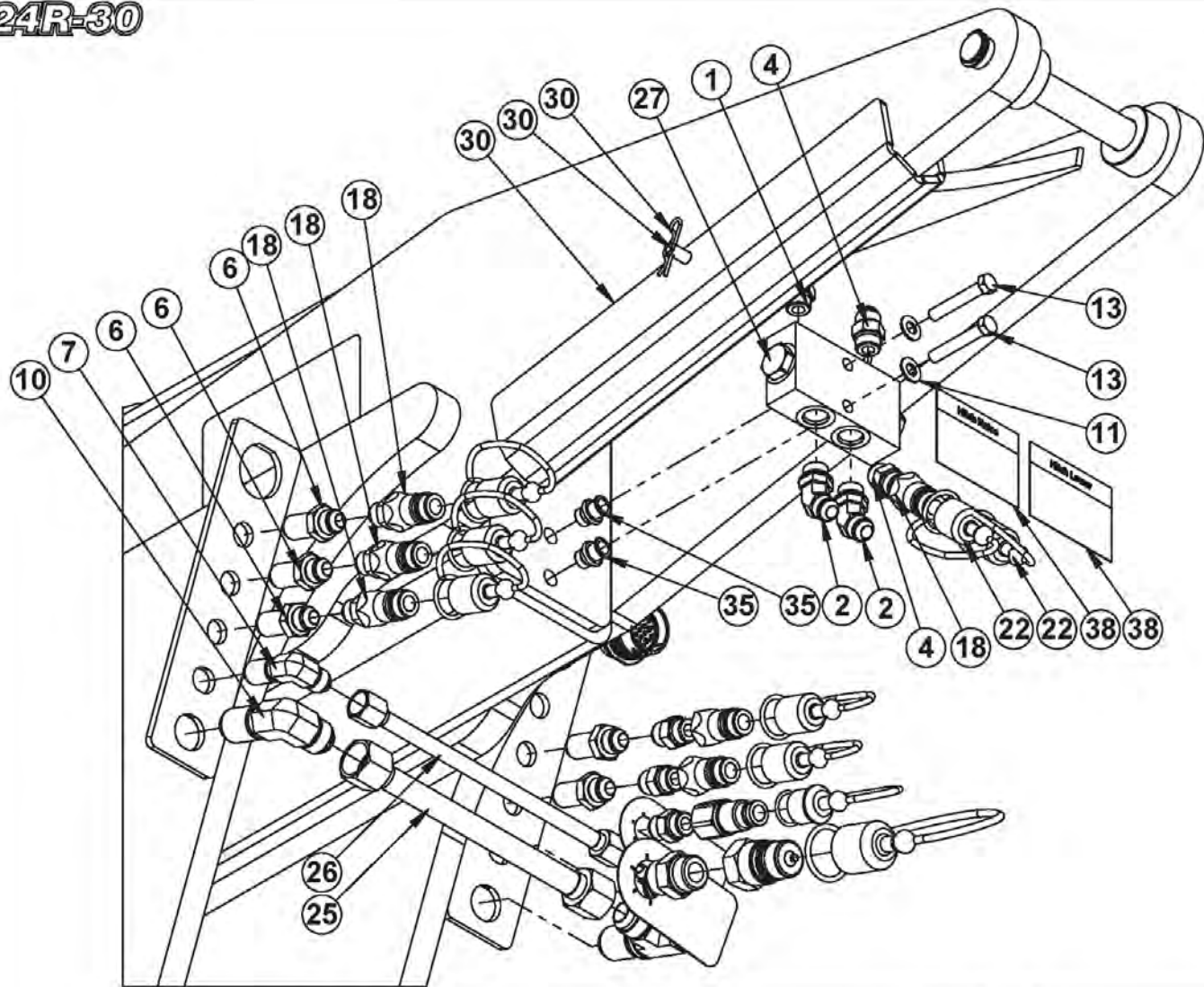


TA01502 Assy, Hyd Lift Front Hitch (Sheet 1 of 2)

ITEM	PART NUMBER	DESCRIPTION	QTY.	TORQUE (ft-lbs)
1	AD-08MJ-08MB-.063	ADAPTER 08MJ-08MB .063" Orifice	1	
2	AD-08MJ-08MB-45	ADAPTER 08MJ-08MB 45	3	
3	AD-08MJ-08MB-90	ADAPTER 08MJ-08MB 90	1	
4	AD-08MJ-08MB	ADAPTER 08MJ-08MB	9	
5	AD-08MJ-08MJ-08MJ-BHR	ADAPTER 08MJT BH RUN	1	
6	AD-08MJ-08MJ-BH	ADAPTER 08MJ-08MJ BH	5	
7	AD-08MJ-08MJ-BH90	ADAPTER 08MJ-08MJ BH 90	1	
8	AD-12MJ-12MB	ADAPTER 12MJ-12MB	1	
9	AD-12MJ-12MJ-12MJ-BHR	ADAPTER 12MJT BH RUN	1	
10	AD-12MJ-12MJ-BH90	ADAPTER 12MJ-12MJ BH 90	1	
11	FW-SAE-0.375Y	Washer, Flat SAE 3/8" YZ	2	
12	FW-SAE-1.000Y	Washer, Flat SAE-1.0-YZ	2	
13	HB-0.375-16X2.25Y8	Bolt, Hex Hd 3/8-16x2-1/4-YZ8	2	
14	PIN-1.000X5.75Y	Pin-1.0000x5.750-YZ	1	
15	RN-0.375-16-.31-.44-Y	Rivnut, 3/8-16 UNC .31-.44 GR	2	
16	SRING-EXT-HD-1.00Y	SRING-EXT-HD-1.00Y	2	
17	T0051511	Safety Chain-61,000 lbs. 80"	1	
18	T0051595	Decal, Notice-Fan Motor Case	1	
19	T0051660	Tip, 1/2" Pioneer	7	
20	T0051678	Decal, Notice-Motor Return	1	
21	T0052376	Tip, Motor Return w/Relief	1	
22	T0052377	Tip, Case Drain w/Relief	1	
23	T0052386	Dust Plug, Pioneer Black	7	
24	T0052387	Dust Cap, Motor Return Black	1	
25	T0052388	Dust Cap, Case Drain Black	1	
26	T0055084	Tube Assy, Crossover	1	
27	T0055085	Tube Assy, Crossover	1	
28	T0055125	Valve, Double Blocking	1	
29	T0055168	Harness, ISO Hitch Ext 120"	1	
30	T0055812	Decal, Hose ID Hyd Hitch	1	
31	TA01496	Cylinder, Hyd 3.50X16.00	1	
32	TA01506	Assy, Front Hitch	1	
33	TA01513	Assy, Pivot Tube	2	
34	TA01792	Assy, Hitch	1	
35	TA01843	Hose Kit, Hyd Hitch	1	
36	TW001249	Wldmt, Jack Pivot Support	1	
37	TW001250	Wldmt, Jack	1	

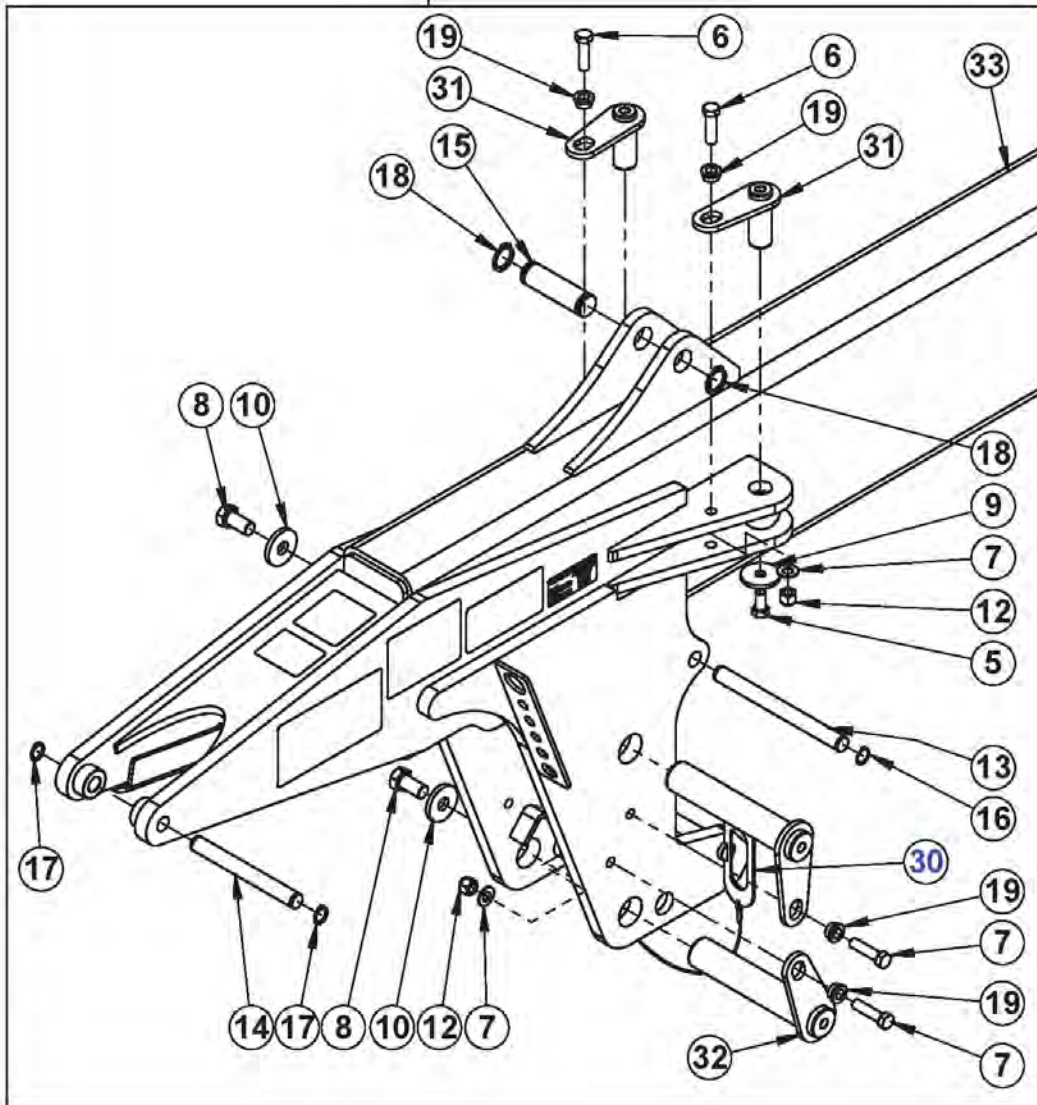
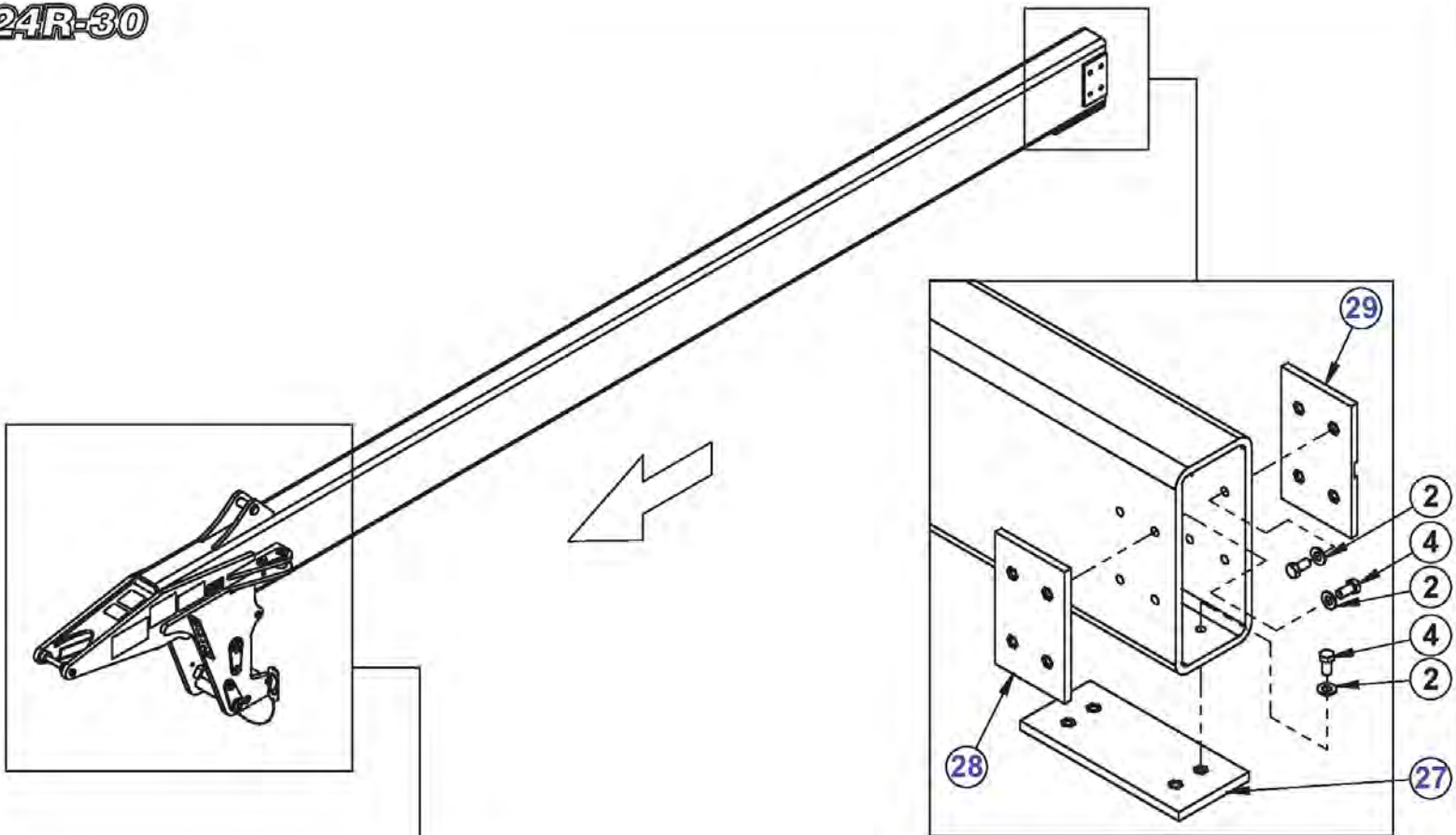
Note:

1. [T=XXX] = Torque Expressed in ft-lbs (Use standard torque values from drawing T0000000 unless otherwise specified.
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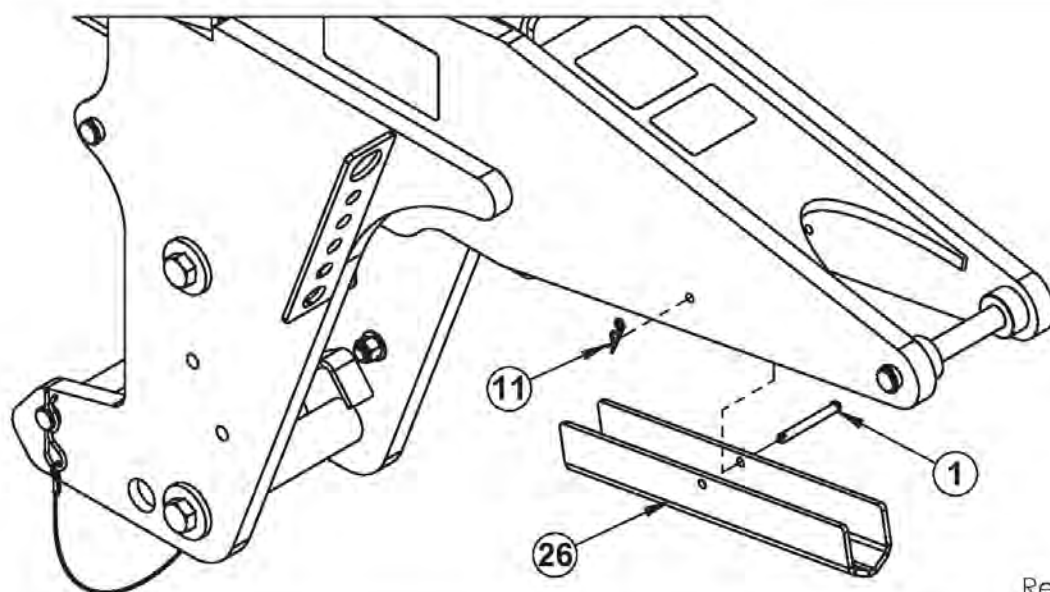
TA01502 Assy, Hyd Lift Front Hitch (Sheet 2 of 2)

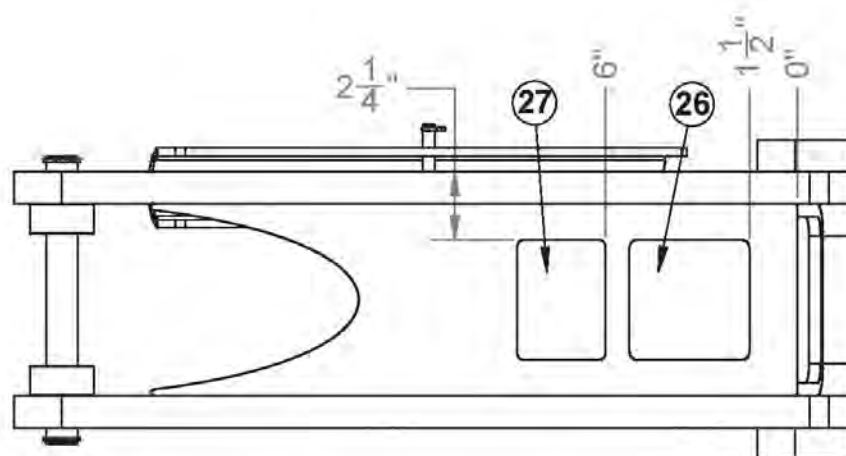
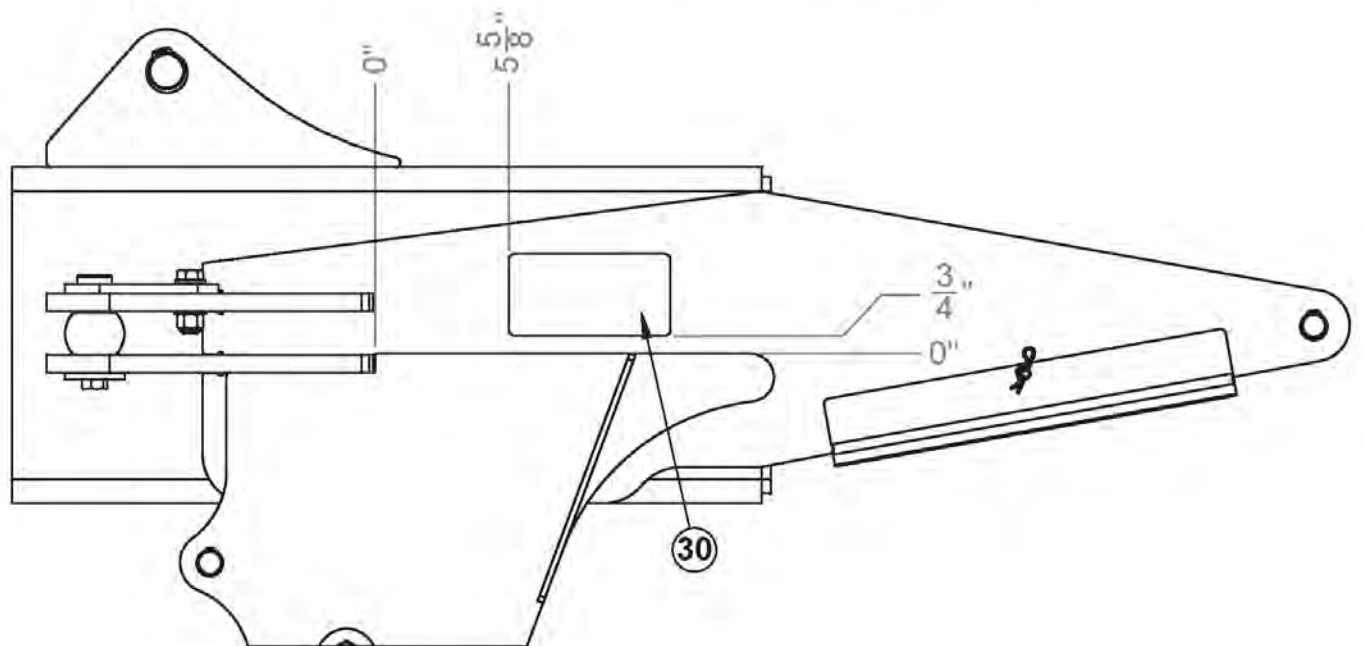
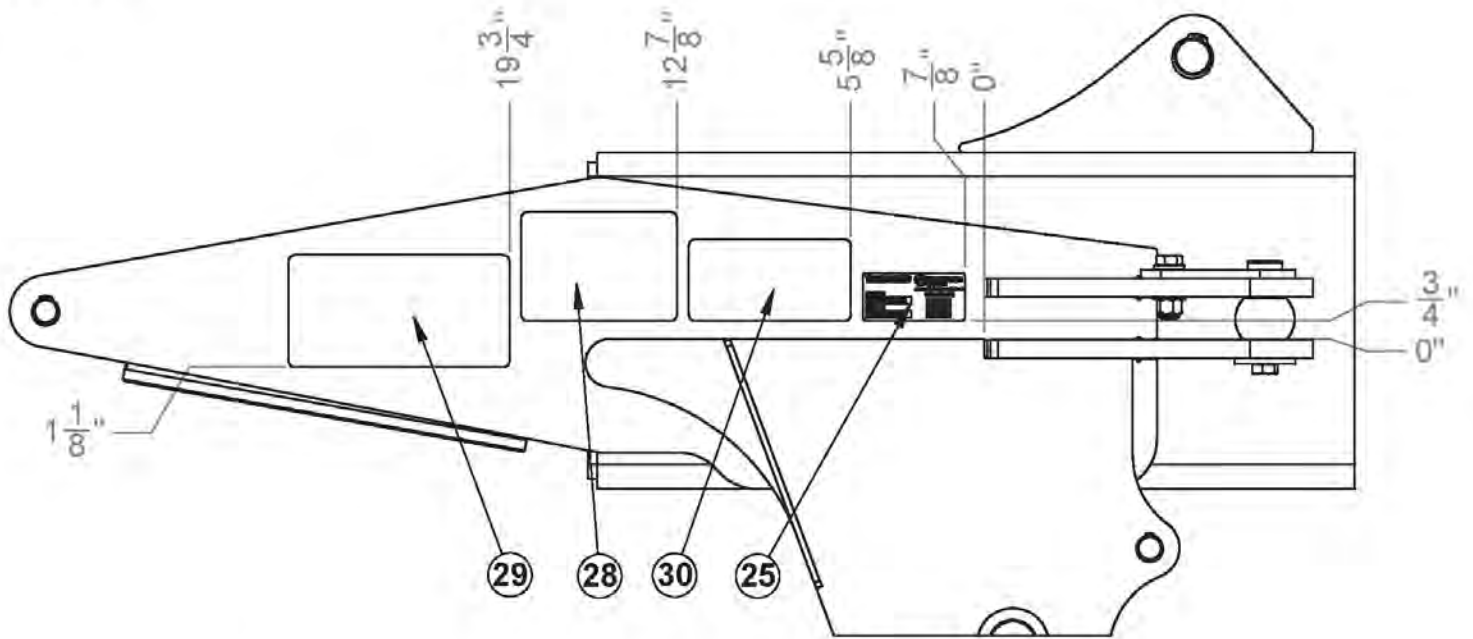
ITEM	PART NUMBER	DESCRIPTION	QTY.	TORQUE (ft-lbs)
1	AD-08MJ-08MB-.063	ADAPTER 08MJ-08MB .063" Orifice	1	
2	AD-08MJ-08MB-45	ADAPTER 08MJ-08MB 45	3	
4	AD-08MJ-08MB	ADAPTER 08MJ-08MB	9	
5	AD-08MJ-08MJ-08MJ-BHR	ADAPTER 08MJT BH RUN	1	
6	AD-08MJ-08MJ-BH	ADAPTER 08MJ-08MJ BH	5	
7	AD-08MJ-08MJ-BH90	ADAPTER 08MJ-08MJ BH 90	1	
8	AD-12MJ-12MB	ADAPTER 12MJ-12MB	1	
9	AD-12MJ-12MJ-12MJ-BHR	ADAPTER 12MJT BH RUN	1	
10	AD-12MJ-12MJ-BH90	ADAPTER 12MJ-12MJ BH 90	1	
11	FW-SAE-0.375Y	Washer, Flat SAE 3/8" YZ	2	
13	HB-0.375-16X2.25Y8	Bolt, Hex Hd 3/8-16x2-1/4-YZ8	2	
17	T0051595	Decal, Notice-Fan Motor Case	1	
18	T0051660	Tip, 1/2" Pioneer	7	
19	T0051678	Decal, Notice-Motor Return	1	
20	T0052376	Tip, Motor Return w/Relief	1	
21	T0052377	Tip, Case Drain w/Relief	1	
22	T0052386	Dust Plug, Pioneer Black	7	
23	T0052387	Dust Cap, Motor Return Black	1	
24	T0052388	Dust Cap, Case Drain Black	1	
25	T0055084	Tube Assy, Crossover	1	
26	T0055085	Tube Assy, Crossover	1	
27	T0055125	Valve, Double Blocking	1	
30	TA01506	Assy, Front Hitch	1	
35	RN-0.375-16-.31-.44-Y	Rivnut, 3/8-16 UNC .31-.44 GR	2	
38	T0055812	Decal, Hose ID Hyd Hitch	1	



TA01506 Assy, Front Hitch

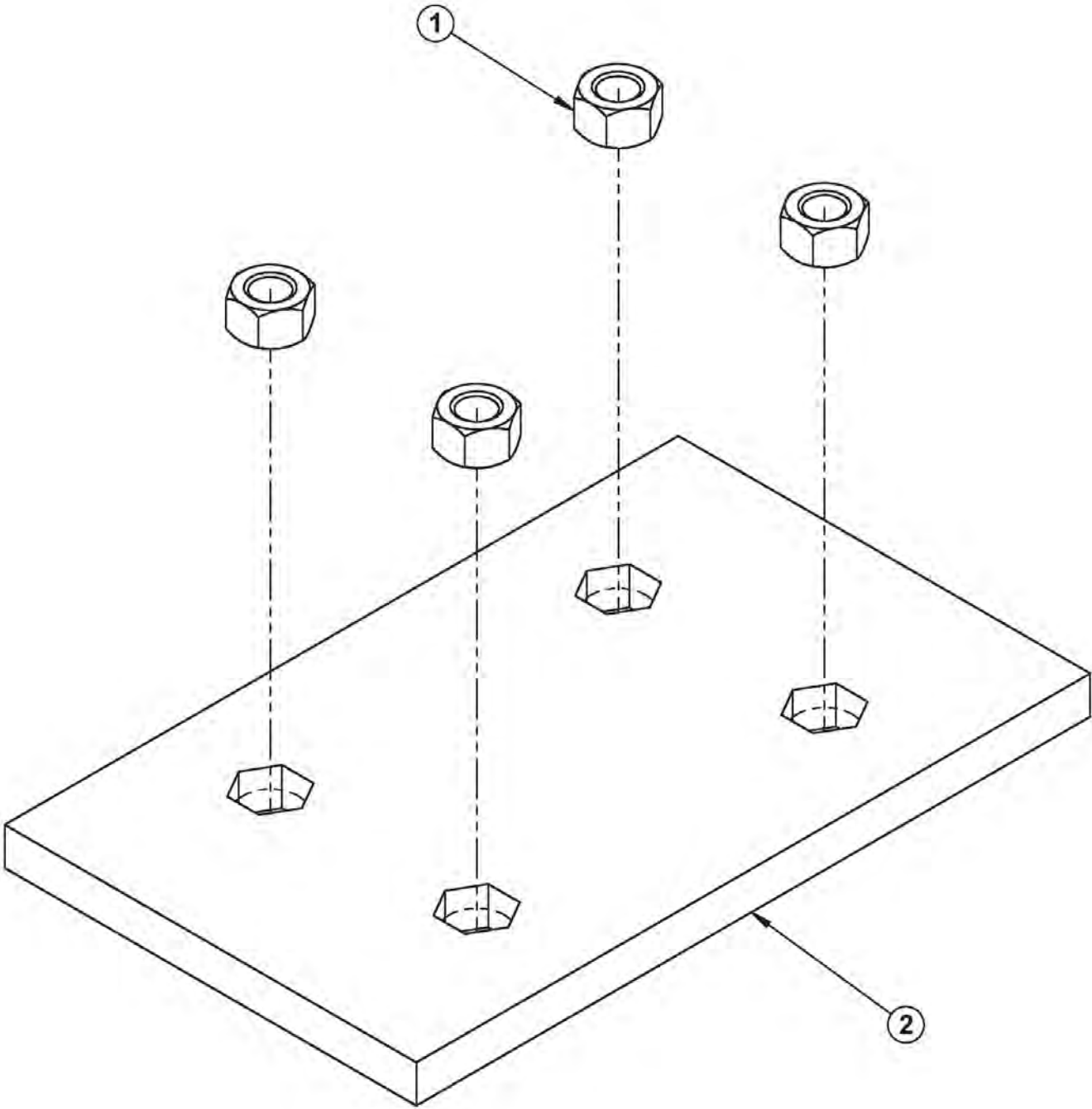
ITEM	PART NUMBER	DESCRIPTION	QTY	TORQUE (ft-lbs)
1	CLPIN-0.375X3.25Y	Clevis Pin, Ø3/8" X 3-1/4 YZ	1	
2	FW-SAE-0.500Y	Washer, Flat SAE - 1/2-YZ	12	
7	FW-SAE-0.625Y	Washer, Flat-SAE-5/8	4	
4	HB-0.500-13X1.00Y8	Bolt, Hex Hd 1/2-13x1 YZ8	12	
5	HB-0.625-11X1.25Y8	Bolt, Hex Head-5/8-11x1.25-YZ8	2	
6	HB-0.625-11X2.25Y8	Bolt, Hex Head-5/8-11x2.25-YZ8	2	
7	HB-0.625-11X2.50Y8	Bolt, Hex Head-5/8-11x2.5-YZ8	2	
8	HB-0.875-9X1.75Y8	Bolt, Hex Hd 7/8-9x1-3/4-YZ8	2	
9	HDWSH-0.64X2.50Y	HD Washer 0.64 x 2.50	2	
10	HDWSH-0.89X2.50Y	HD Washer 0.89 x 2.50	2	
11	HPINCLIP-0.313 YZ	Hair Pin Clip-Ø5/16" YZ	1	
12	NLNUT-0.625-11Y8	Nut, Nylock-5/8-11-YZ8	4	
13	PIN-1.000X10.63Y	Pin-1.0000x10.625-YZ	1	
14	PIN-1.000X8.625Y	Pin-1.0000x8.6250-YZ	1	
15	PIN-1.50X4.50Y	Pin-1.50x4.50-YZ	1	
16	SRING-EXT-1.00	Ring, Retaining Ext Shaft-1.0"	2	
17	SRING-EXT-HD-1.00Y	SRING-EXT-HD-1.00Y	2	
18	SRING-EXT-HD-1.50Y	SRING-EXT-HD-1.50Y	2	
19	T0050854	Anti Rotation Insert	4	
20	T0051573	Decal, Warning-Machine Safety	1	
21	T0051575	Decal, Warning-Tipping Hazard	2	
22	T0051669	Decal, Warning-Hyd Fluid	1	
23	T0051702	Decal, Important-Case Drain	1	
24	T0053462	Decal, Warning-Machine Transp	1	
25	T0055737	Decal, S/N Yieldtrac (Generic)	1	
26	T0055769	Channel, Transport Lock	1	
27	TA00800	Slider Assembly	1	
28	TA00801	Assy, Slider	1	
29	TA00843	Assy, Slider	1	
30	TA01514	Assy, Hitch Pin With Lanyard	1	
31	TW000630	Pin Weldment	2	
32	TW000950	Pin Weldment	2	
33	TW001248	Wldmt, Front Hitch	1	





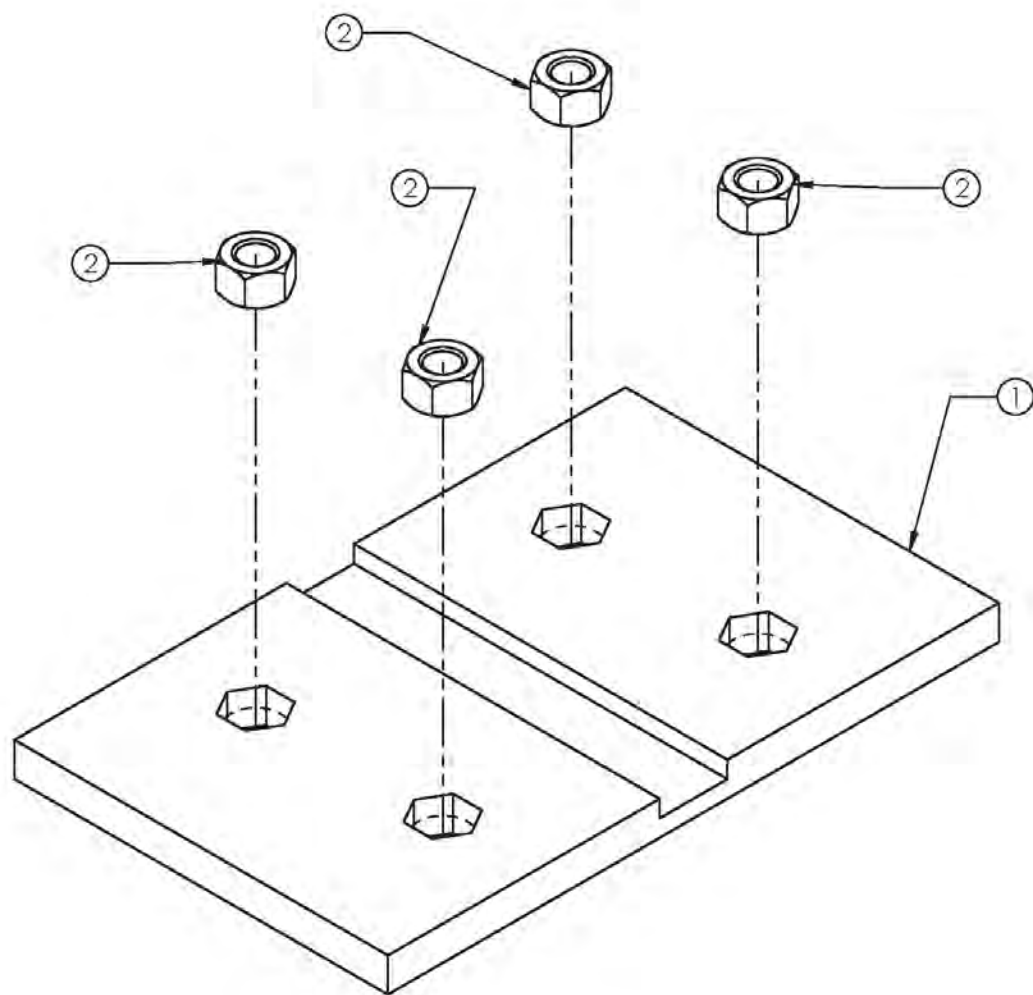
TA01506 Assy, Front Hitch

ITEM	PART NUMBER	DESCRIPTION	QTY.	TORQUE (ft-lbs)
25	T0055737	Decal, S/N Yieldtrac (Generic)	1	
26	T0051669	Decal, Warning-Hyd Fluid	1	
27	T0051702	Decal, Important-Case Drain	1	
28	T0051573	Decal, Warning-Machine Safety	1	
29	T0053462	Decal, Warning-Machine Transp	1	
30	T0051575	Decal, Warning-Tipping Hazard	2	
31	T0055769	Channel, Transport Lock	1	
32	CLPIN-0.375X3.25Y	Clevis Pin, Ø3/8" X 3-1/4 YZ	1	
33	HPINCLIP-0.313 YZ	Hair Pin Clip-Ø5/16" YZ	1	



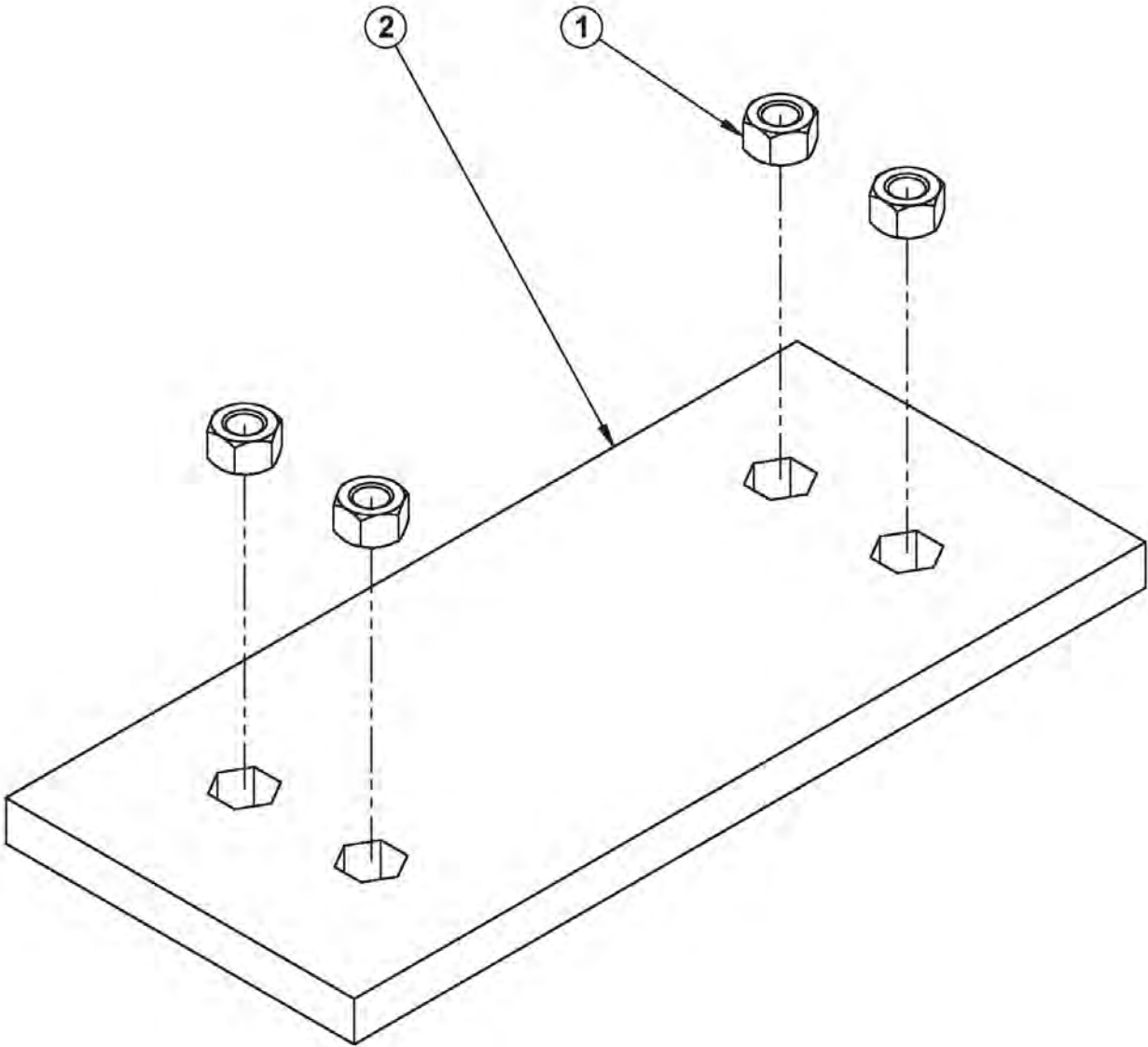
TA00801 Assy, Slider

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	



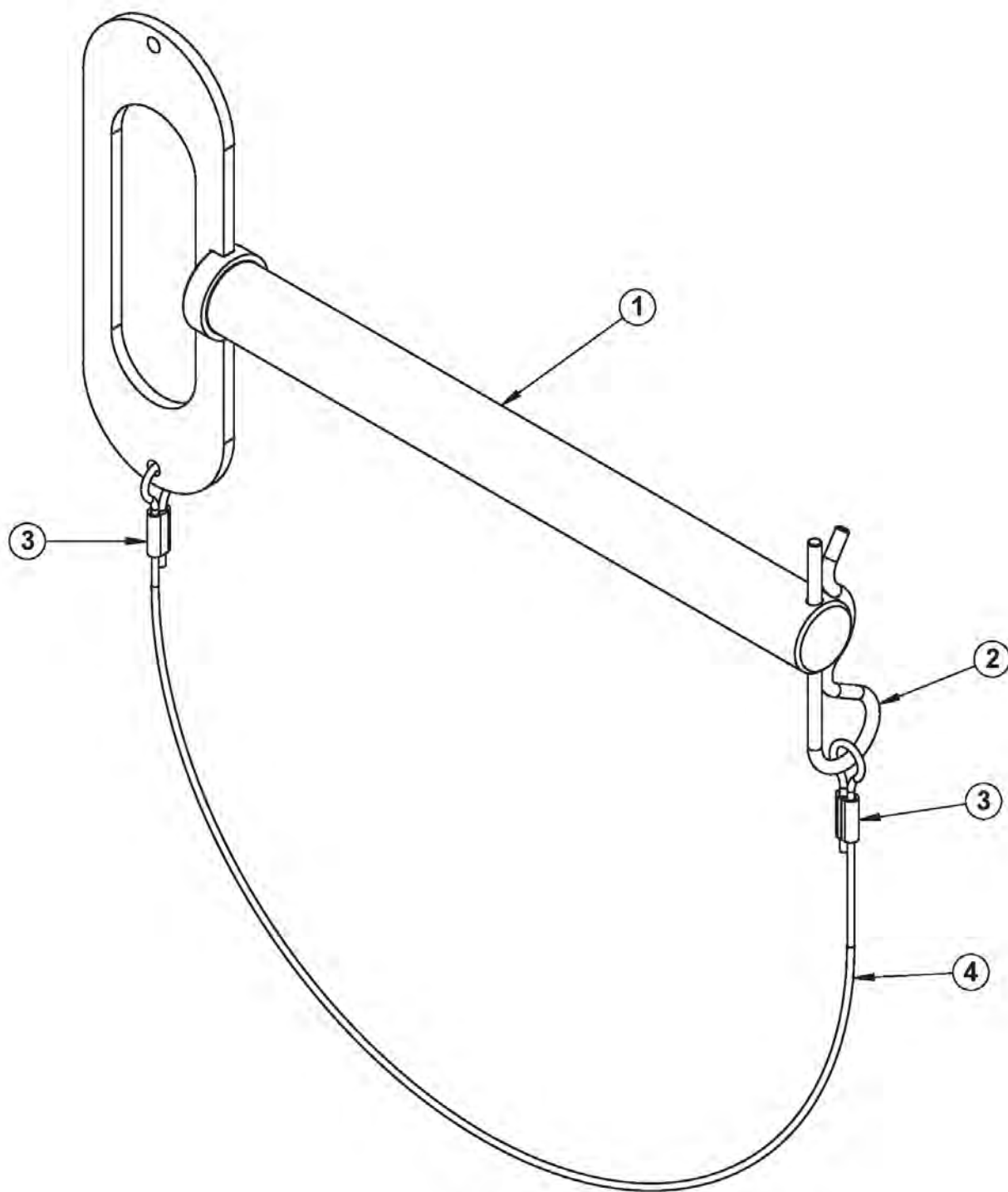
TA00843 Assy, Slider

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	



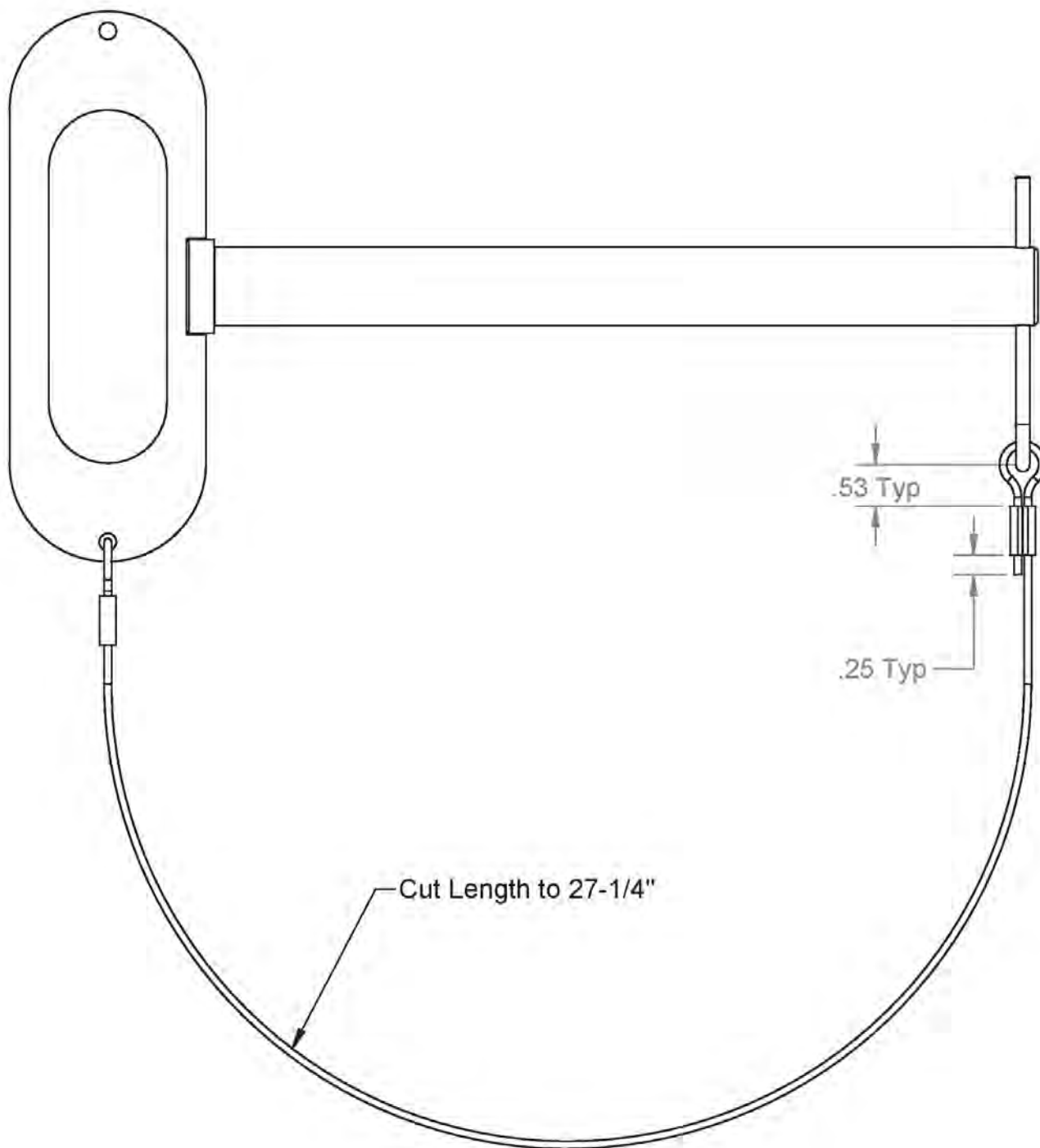
TA00800 Slider Assembly

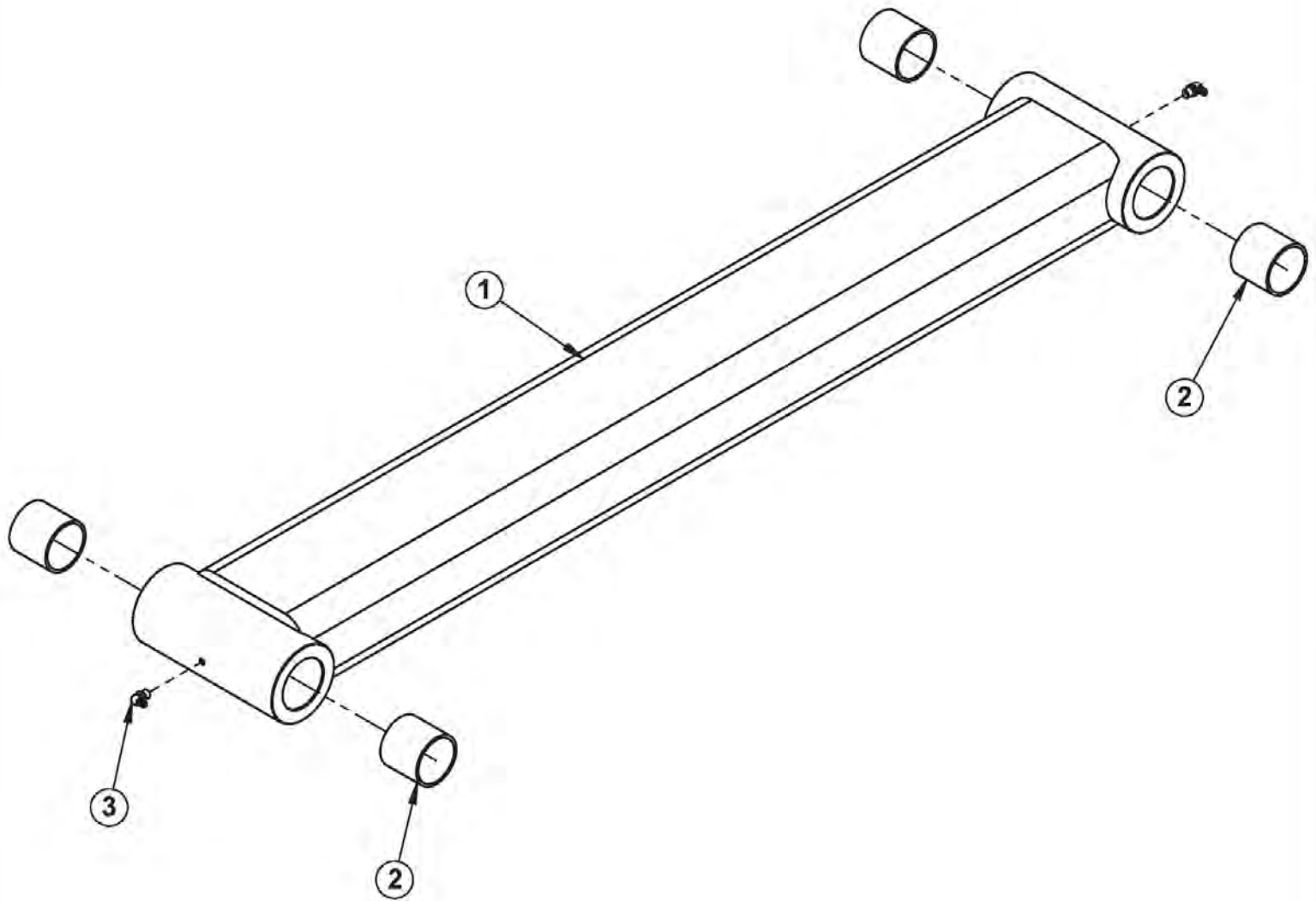
ITEM	PART NUMBER	DESCRIPTION	QTY.	TORQUE (ft-lbs)
1	HNUT-0.500-13Y8	Nut, Hex 1/2-13 YZ8	4	
2	T0052284	Pad, Slider	1	



TA01514 Assy, Hitch Pin With Lanyard

ITEM	PART NUMBER	DESCRIPTION	QTY	TORQUE (ft-lbs)
1	TW001253	Wldmt, Hitch Pin w Handle	1	
2	HPINCLIP-1.000Y	Hair Pin Clip-Ø1.0000" YZ	1	
3	CBLCRMPBUSH-0.125	CableCrimpBushing-0.1250	2	
4	CBLLYD-0.125X27.25	Lanyard,Acrft Cbl NICtd 1/8x27-1/4	1	



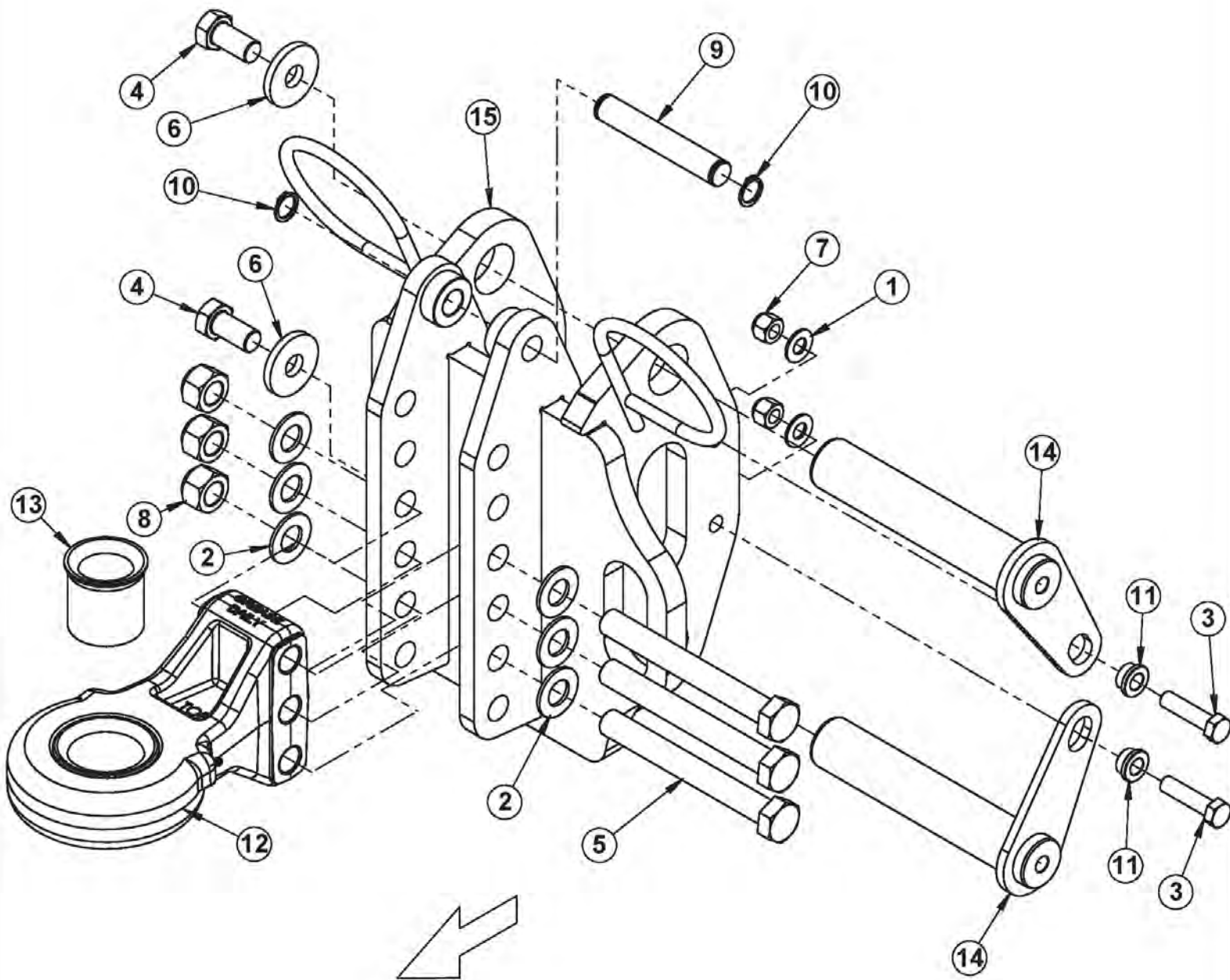


TA01513 Assy, Pivot Tube

ITEM	PART NUMBER	DESCRIPTION	QTY	TORQUE (ft-lbs)
1	TW001246	Wdmt, 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.

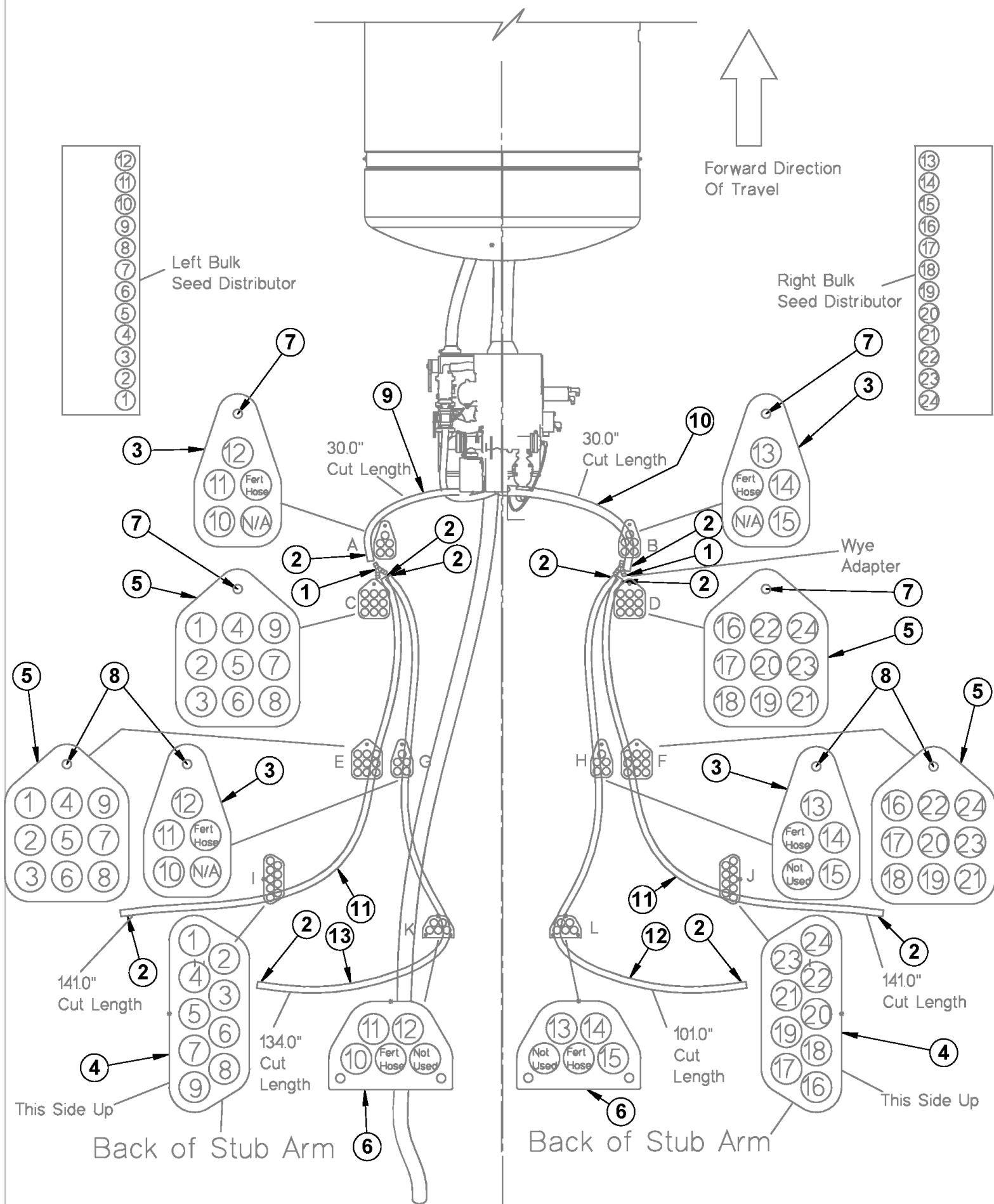


TA01792 Assy, Hitch

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	T0053463	CAT 5 Ball Hitch Assy	1	
13	T0053965	Bushing, Cat 5 2.00" Pin	1	
14	TW000950	Pin Weldment	2	
15	TW001252	Wdmt, 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.

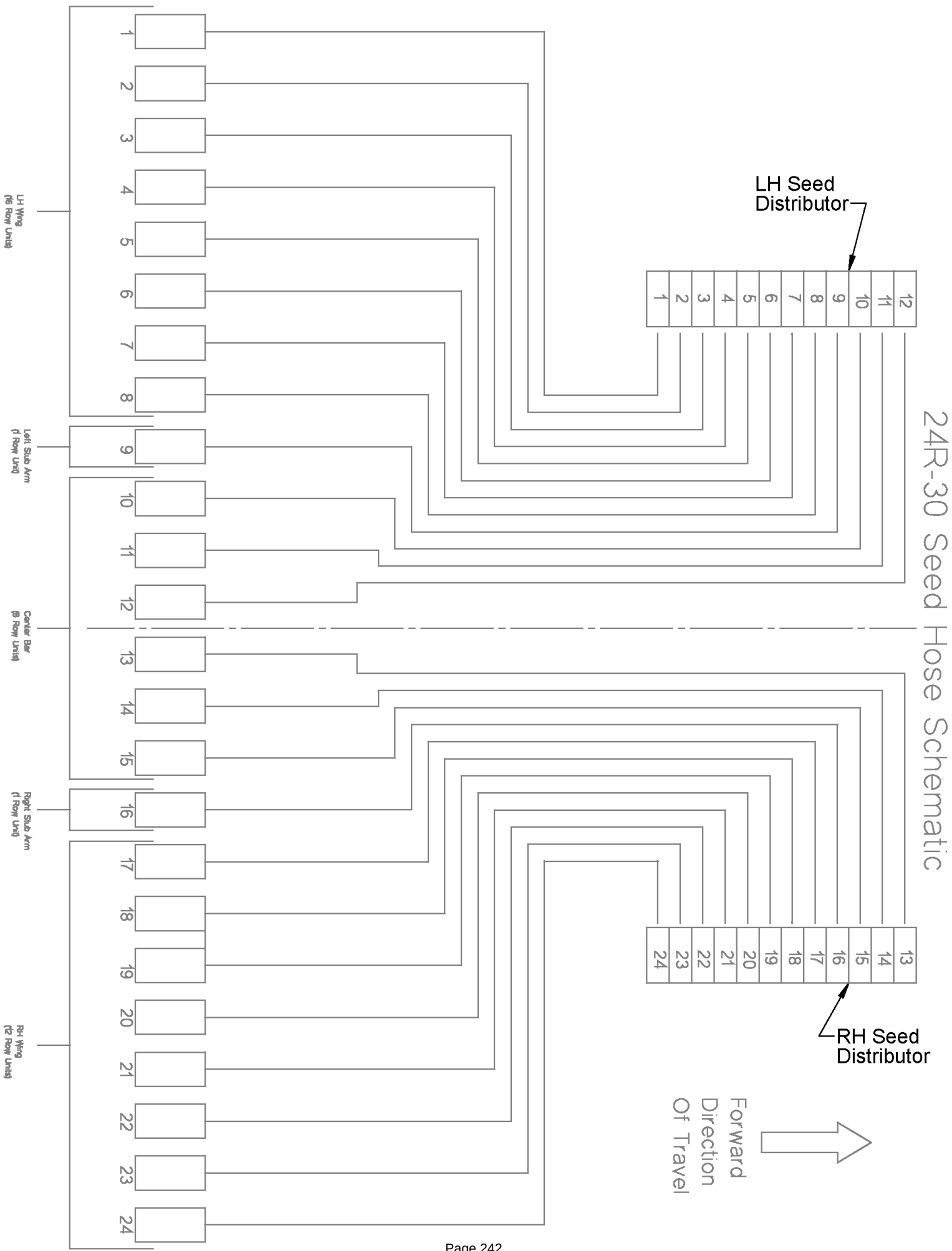


T0055479 Seed Hose Schematic Thru Hangers 24R30

Row Unit #	PART NUMBER	Lengths	QTY.
1	T0052445	3/4" Hose Barb Wye	1
2	HClamp-SAE-12-SS	Hose Clamp, SAE #12-SS	12
3	T0052573	Seed Hose Hanger, Middle Fr	4
4	T0052571	Seed Hose Hanger, Stub Arm	2
5	T0052572	Seed Hose Hanger, Middle	4
6	T0052450	Guide, Hose Seed Tube Cen Fr	2
7	T0052569	J-Hanger, Double	4
8	T0052570	J Hanger, Double Straight	2
9	T0052781	Hose, AgSpray 200 Ø3/4x30	1
10	T0052780	Hose, AgSpray 200 Ø3/4x30	1
11	T0052782	Hose, AgSpray 200 Ø3/4x141	2
12	T0052783	Hose, AgSpray 200 Ø3/4x101	1
13	T0052784	Hose, AgSpray 200 Ø3/4x134	1

Note:

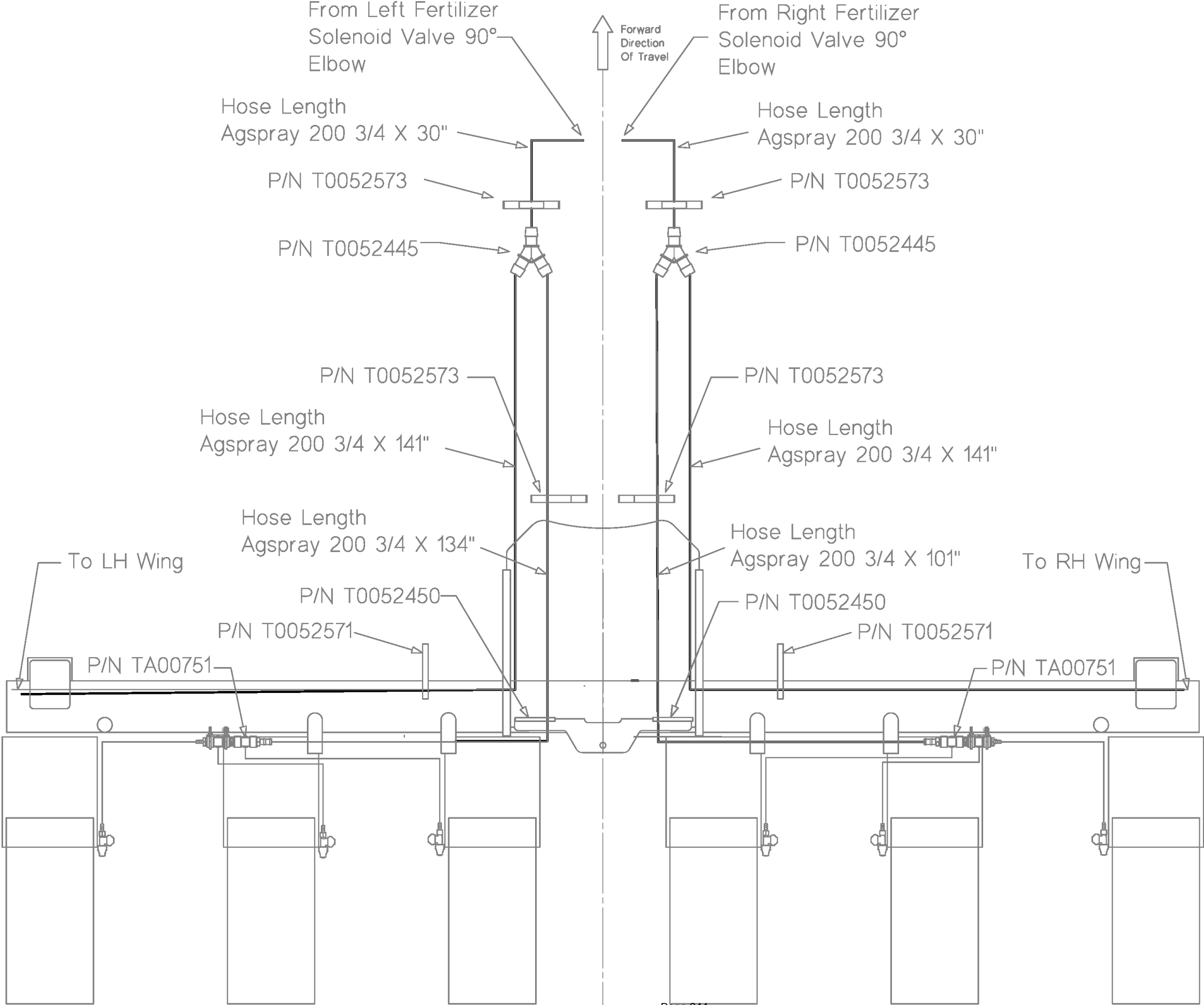
1. **T=XXX** = Torque Expressed in ft-lbs (Use standard torque values from drawing T0000000 unless otherwise specified.
2. * Items marked with an asterisk are items that are included in that particular part or assembly.



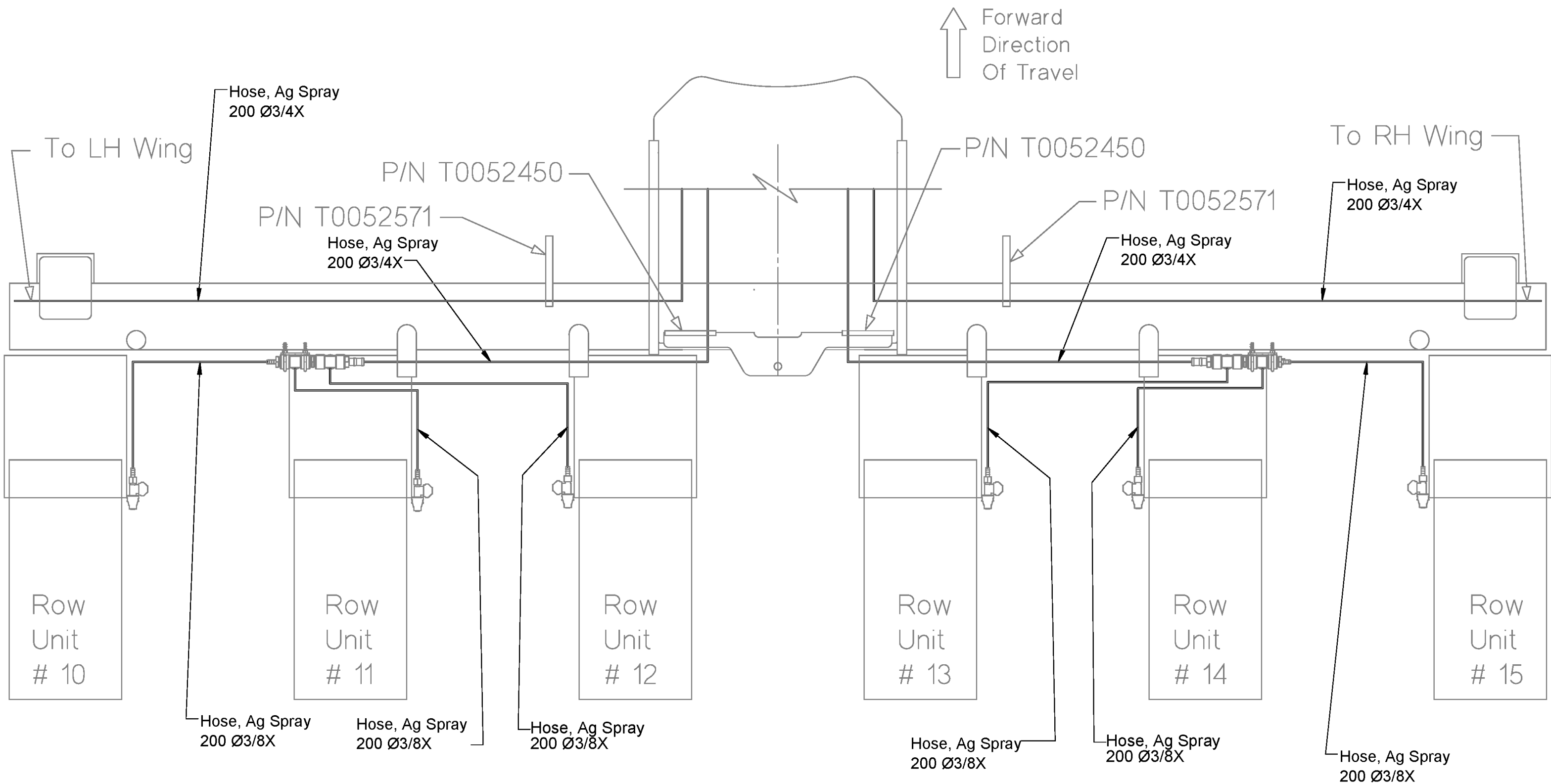
1. Items 1-24 use bulk part number T0051672 Hose-1.00" PVC (100' Roll), or CNH P/N 87483976

Row	1" Hose	1" Hose
1	434	36' 2"
2	412	34' 4"
3	381	31' 9"
4	352	29' 4"
5	320	26' 8"
6	296	24' 8"
7	269	22' 5"
8	240	20' 0"
9	211	17' 7"
10	207	17' 3"
11	184	15' 4"
12	157	13' 1"
13	158	13' 2"
14	183	15' 3"
15	210	17' 6"
16	211	17' 7"
17	239	19' 11"
18	268	22' 4"
19	295	24' 7"
20	327	27' 3"
21	352	29' 4"
22	381	31' 9"
23	420	35' 0"
24	440	36' 8"
Total	6947	578' 11"

24R-30 Fertilizer Schematic



24R-30 Fertilizer Schematic (Center Bar)



T0055475 Schematic,Fertilizer Routing LH Wing 24R30

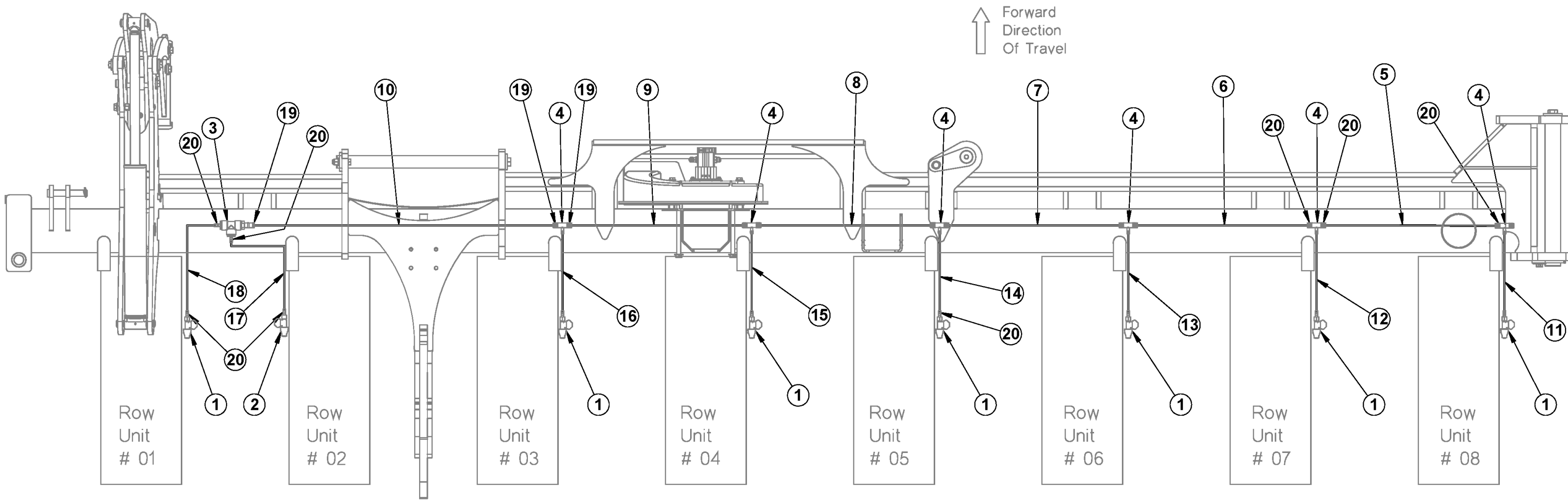
ITEM	PART NUMBER	DESCRIPTION	QTY.	TORQUE (ft-lbs)
1	TA01633	Assy, RH Fert Check Valve	7	
2	TA01634	Assy, LH Fert Check Valve	1	
3	TA01051	Assy, Mnfld End	1	
4	T0052308	Barbed Tee 3/4" x 3/4" x 3/8"	6	
5		Hose, Ag Spray 200 Ø3/4X	1	
6		Hose, Ag Spray 200 Ø3/4X	1	
7		Hose, Ag Spray 200 Ø3/4X	1	
9		Hose, Ag Spray 200 Ø3/4X	1	
10		Hose, Ag Spray 200 Ø3/4X	1	

T0055475 Schematic,Fertilizer Routing LH Wing 24R30

ITEM	PART NUMBER	DESCRIPTION	QTY.	TORQUE (ft-lbs)
11		Hose, Ag Spray 200 Ø3/8X	1	
12		Hose, Ag Spray 200 Ø3/8X	1	
13		Hose, Ag Spray 200 Ø3/8X	1	
14		Hose, Ag Spray 200 Ø3/8X	1	
15		Hose, Ag Spray 200 Ø3/8X	1	
16		Hose, Ag Spray 200 Ø3/8X	1	
17		Hose, Ag Spray 200 Ø3/8X	1	
18		Hose, Ag Spray 200 Ø3/8X	1	
19	HCLMP-SAE-06SS	Hose Clamp, SAE #6-SS	16	
20	HCLMP-SAE-12SS	Hose Clamp, SAE #12-SS	12	

- Notes:
- 1. Items 5-10 use bulk part number T0051675 Hose-Ø3/4" Ag Spray 200 (100' Roll)
 - 2. Items 11-18 use bulk part number T0051674 Hose-Ø3/8" Ag Spray 200 (100' Roll)

24R-30 Fertilizer Schematic (LH Wing)



T0055476 Schematic,Fertilizer Routing RH Wing 24R30

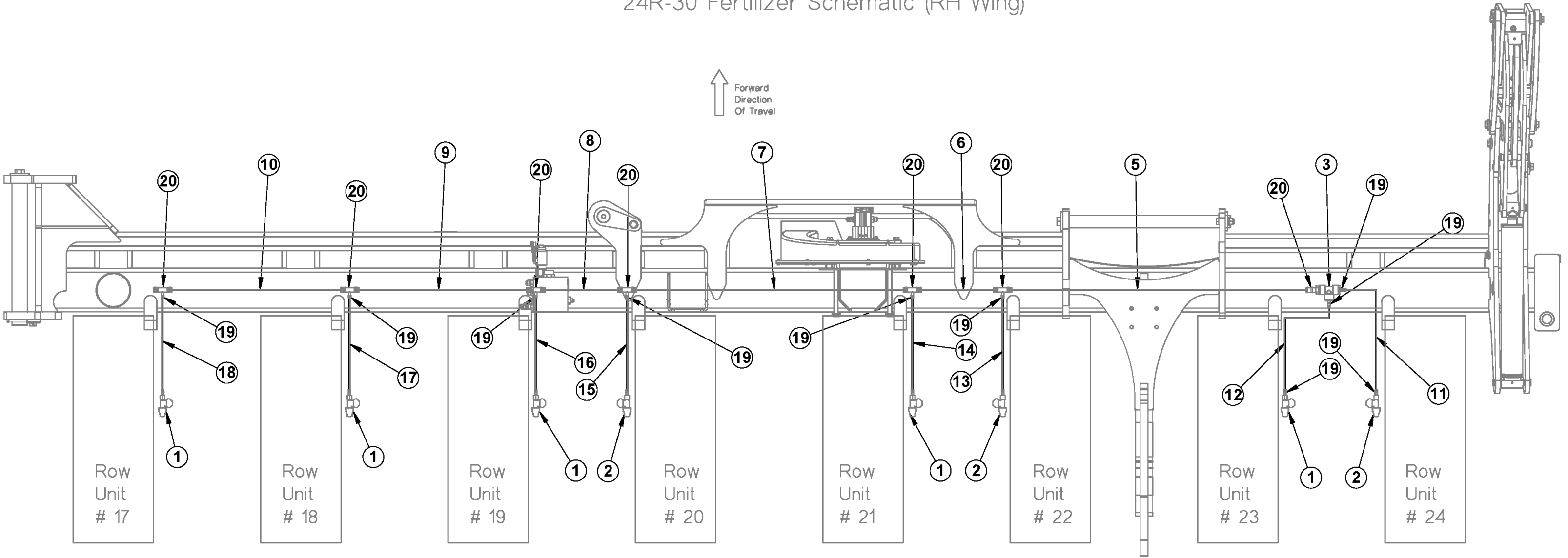
ITEM	PART NUMBER	DESCRIPTION	QTY.	TORQUE (ft-lbs)
1	TA01633	Assy, RH Fert Check Valve	5	
2	TA01634	Assy, LH Fert Check Valve	3	
3	TA01051	Assy, Mnfld End	1	
4	T0052308	Barbed Tee 3/4" x 3/4" x 3/8"	6	
5		Hose, Ag Spray 200 Ø3/4X	1	
6		Hose, Ag Spray 200 Ø3/4X	1	
7		Hose, Ag Spray 200 Ø3/4X	1	
8		Hose, Ag Spray 200 Ø3/4X	1	
9		Hose, Ag Spray 200 Ø3/4X	1	
10		Hose, Ag Spray 200 Ø3/4X	1	

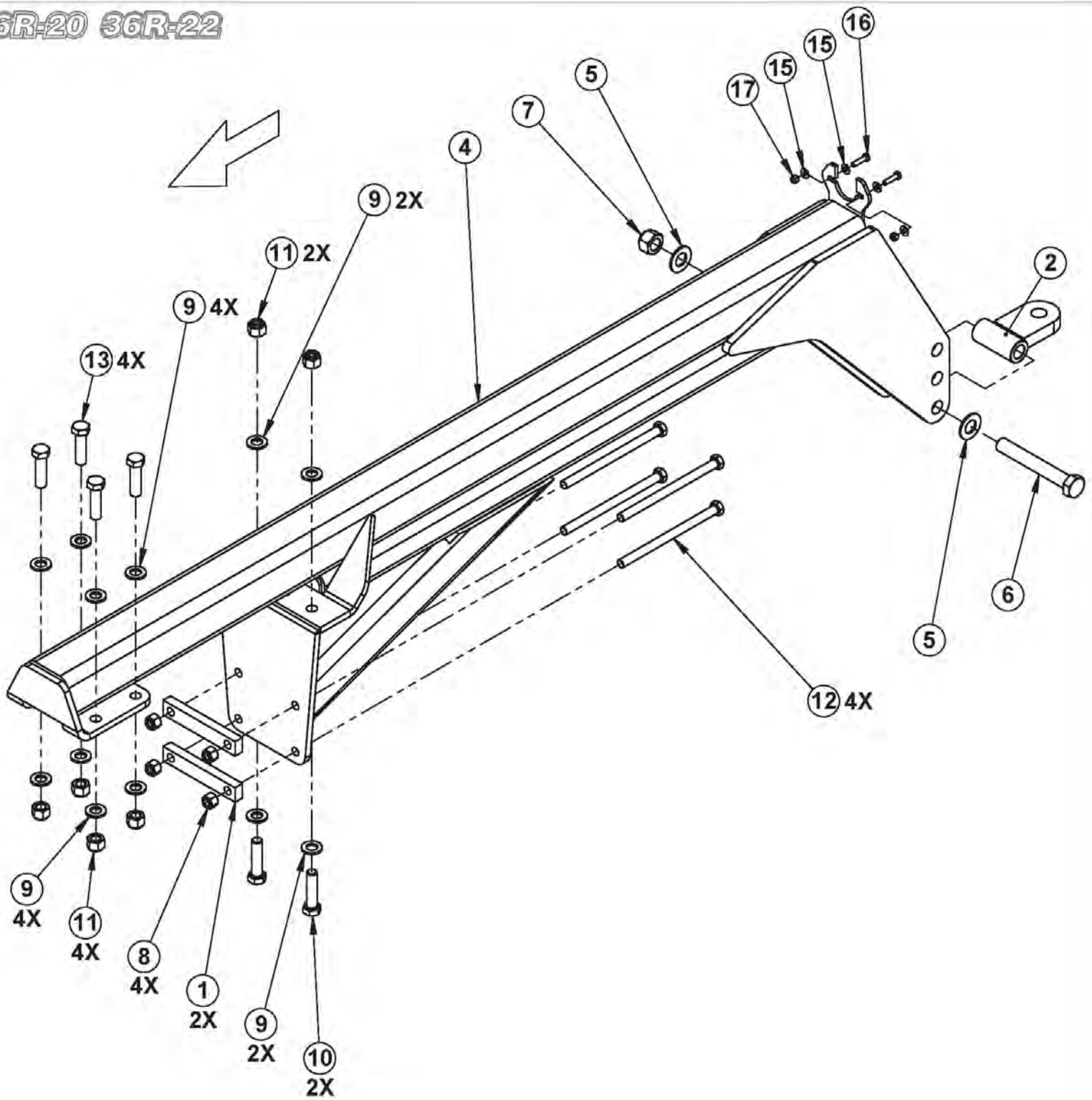
T0055476 Schematic,Fertilizer Routing RH Wing 24R30

ITEM	PART NUMBER	DESCRIPTION	QTY.	TORQUE (ft-lbs)
11		Hose, Ag Spray 200 Ø3/8X	1	
12		Hose, Ag Spray 200 Ø3/8X	1	
13		Hose, Ag Spray 200 Ø3/8X	1	
14		Hose, Ag Spray 200 Ø3/8X	1	
15		Hose, Ag Spray 200 Ø3/8X	1	
16		Hose, Ag Spray 200 Ø3/8X	1	
17		Hose, Ag Spray 200 Ø3/8X	1	
18		Hose, Ag Spray 200 Ø3/8X	1	
19	HCLMP-SAE-06SS	Hose Clamp, SAE #6-SS	16	
20	HCLMP-SAE-12SS	Hose Clamp, SAE #12-SS	12	

- Notes:
- 1. Items 5-10 use bulk part number T0051675 Hose-Ø3/4" Ag Spray 200 (100' Roll)
 - 2. Items 11-18 use bulk part number T0051674 Hose-Ø3/8" Ag Spray 200 (100' Roll)

24R-30 Fertilizer Schematic (RH Wing)





TA01130 Option, Rear Hitch Assy

ITEM	PART NUMBER	DESCRIPTION	QTY	TORQUE (ft-lbs)
1	T0054179	Tap Bar	2	
2	TW000772	Hitch Bar Weldment	1	
3	87677108	Harness, Rear Hitch	1	
4	TW001081	Wldmt, Rear Hitch	1	
5	FW-SAE-1.000Y	Washer, Flat SAE-1.0-YZ	2	
6	HB-1.000-8X7.00Y8	Bolt, Hex Hd-1-8x7-YZ8	1	
7	NLNUT-1.000-8Y8	Nut, Nylock-1.0-8-YZ8	1	
8	NLNUT-0.625-11Y8	Nut, Nylock-5/8-11-YZ8	4	
9	FW-SAE-0.750Y	Washer, Flat-SAE 3/4 YZ	12	
10	HB-0.750-10X3.00Y8	Bolt, Hex Hd-3/4-10x3-YZ8	2	
11	NLNUT-0.750-10Y8	Nut, Nylock 3/4-10-YZ8	6	
12	HB-0.625-11X9.50Y8	Bolt, Hex Head-5/8-11x9.50-YZ8	4	
13	HB-0.750-10X2.75Y8	Bolt, Hex Hd 3/4-10x2-3/4-YZ8	4	
14	FW-SAE-0.625Y	Washer, Flat-SAE-5/8	4	
15	FW-USS-0.250Y	Washer, Flat USS 1/4" YZ	4	
16	HB-0.313-18X1.25Y8	Bolt, Hex Hd 5/16-18x1-1/4 YZ8	2	
17	NLNUT-0.313-18Y8	Nut, Nylock 5/16"-18-YZ8	2	

Torque – Hydraulic tubes and fittings

Standard torque data for hydraulic tubes and fittings

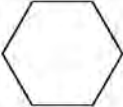
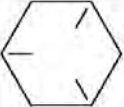
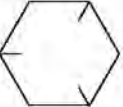
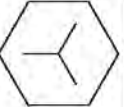
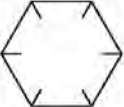
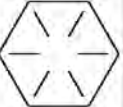
Tube Nuts for 37° Flared Fittings								O-Ring Boss Plugs, Adjustable Fitting Lock Nuts, Swivel JIC - 37 ° Seats			
Size	Tubing OD		Thread Size	ft-lbs		Nm		ft-lbs		Nm	
	Inches	mm		Min	Max	Min	Max	Min	Max	Min	Max
4	1/4	6.4	7/16-20	9	12	12	16	6	10	8	14
5	5/16	7.9	1/2-20	12	15	16	20	10	15	14	20
6	3/8	9.5	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	8	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	63.5
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	17.088	-	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	-	0.7097	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

