

Stainless Tender Stainless Steel Fertilizer & Seed Tender Parts Catalog

Model: ST933



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.

Norwood Sales Inc. makes no representation or warranty, expressed, implied, or statutory with respect to, and assumes no responsibility for the accuracy, completeness, sufficiency, or usefulness of the information contained herein. No warranties of merchantability or fitness for purpose shall apply.

Trademark Information

Shur-Co®, is a registered trademark of Shur-Co Corporate and is so acknowledged. Cush is a registered trademark of Cush Corp., and is so acknowledged. KIC is a registered trademark of KIC LLC., and is so acknowledged. Kohler is a registered trademark of Kohler Co., and is so acknowledged. AXN is a registered trademark of AXN Heavy Duty, and is so acknowledged. JOST is a registered trademark of Jost International, and is so acknowledged. KAR-TECH is a registered trademark of Kar-Tech, Inc., and is so acknowledged. Vibco is a registered trademark of Vibco Vibrators, and is so acknowledged. Sealco is a registered trademark of Sealco Commercial Vehicle Products, and is so acknowledged.









Any trademarks not directly mentioned are also acknowledged.

Read and Understand



Read and follow all instructions and safety precautions in this manual and all other manuals for products associated with this machine 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 dealer if any of your manuals are missing or illegible or you have questions.

Preface:

This Parts Catalog is intended for use with the following, Uni-Body Stainless Tenders (ST933)

Revision History

Issue 40-5-00030

Date

December 1st 2021

Reasons for Change Initial 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.

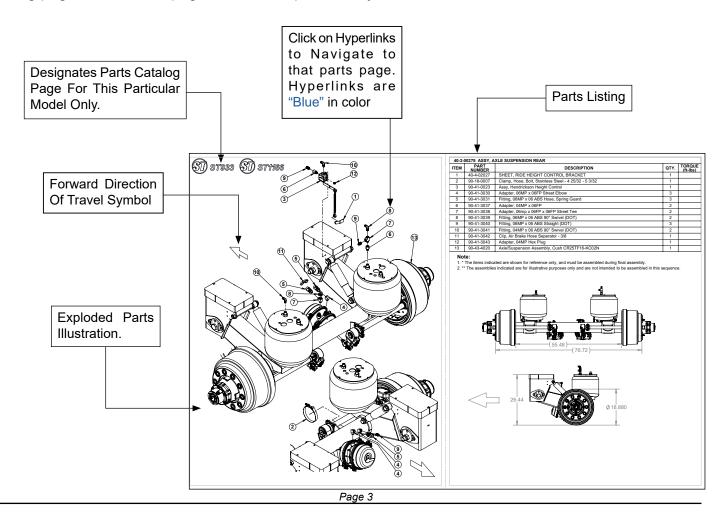
Option 2:

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, 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:

ST933

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



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 dealer. Your nearest authorized Norwood 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 replacement parts should be used to service or repair the machine. Norwood replacement parts are available from your Norwood 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:

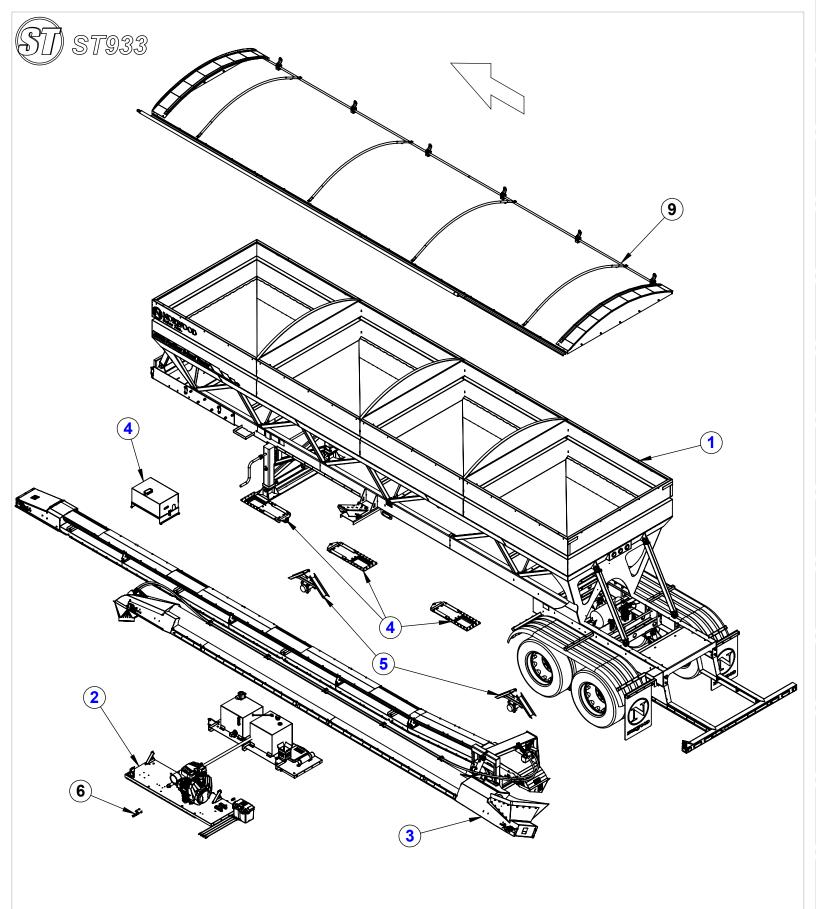
- 1. The PART NUMBER of the part.
- 3. The PART DESCRIPTION.
- 4. The QUANTITY needed.

ST933 Fertilizer & Seed Tender

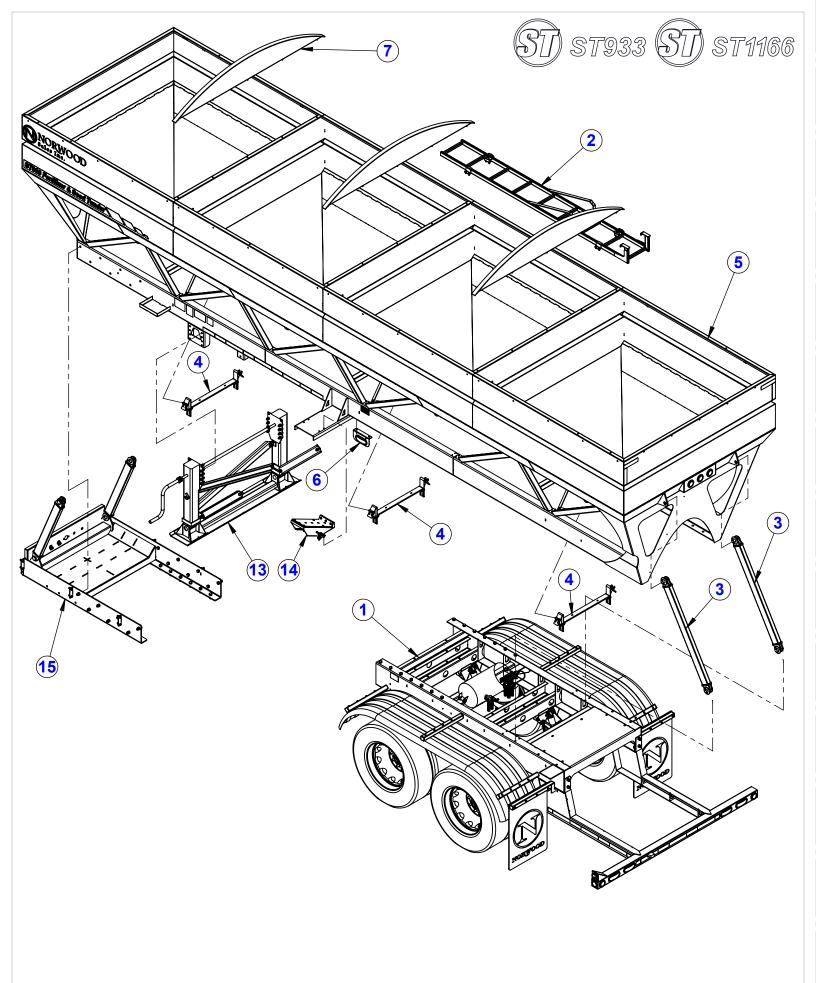
Stainless Tender Parts Catalog

For Models:

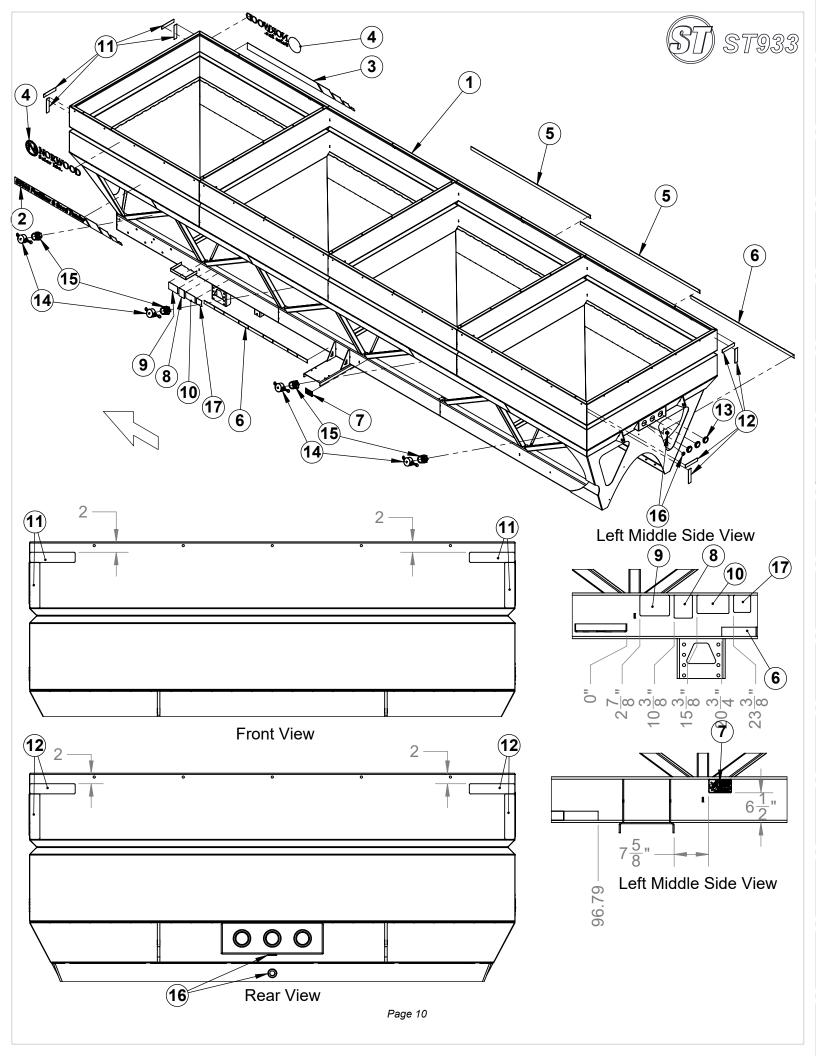
• Uni-Body Stainless Tenders (ST933)



40-1-0	00119 ASSEMBLY,	ST933 - 32FT SELF ASSEMBLY, ST933 - 32FT FMD, 18" CONVEYOR - 2 VIBCOS	
ITEM	PART NUMBER	DESCRIPTION	QTY.
1	40-2-00239	ASSEMBLY, ST933 BASE TRAILER - NO SPLITS	1
2	40-2-00240	ASSEMBLY, SELF CONTAINED POWER PACK	1
3	40-2-00242	ASSEMBLY, ST933 CONVEYOR SYSTEM	1
4	40-2-00243	ASSEMBLY, ST933 WIRELESS CONTROL PACKAGE - NO SPLITS	1
5	40-2-00249	ASSEMBLY, ST VIBCO - 933 DOUBLE	1
6	40-2-00303	ASSY, ST THROTTLE ACTUATOR AND MOUNTING KIT	1
7	90-37-0050	Hose Kit, ST933 Self Contained - Remote Hydraulic Gate, 18" Conveyor	1
8	90-37-0061	Hose Kit, ST Suction Hose	1
9	90-53-0020	Agri-Cover, Autoloc Stainless - 8' x 381.15" - Electric 933	1

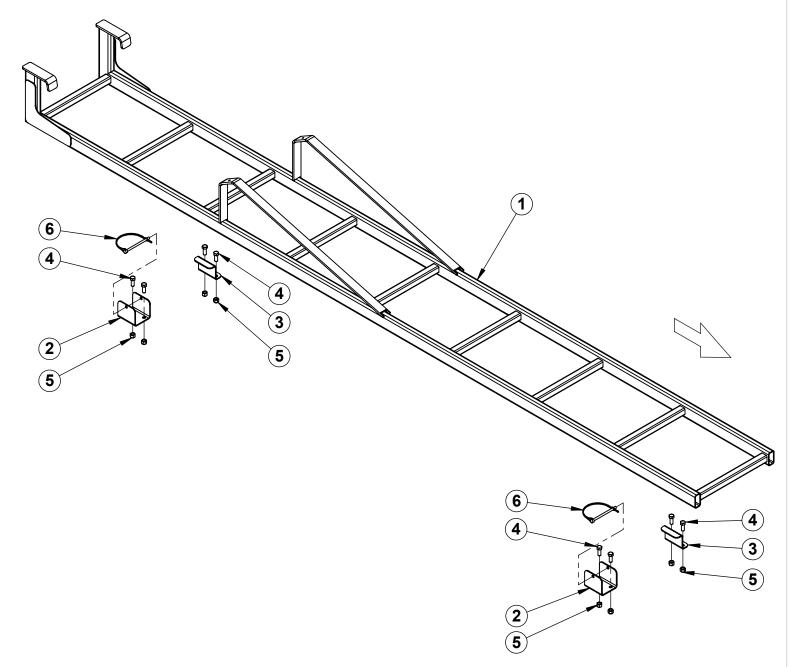


40-2-00239 ASSEMBLY, ST933 BASE TRAILER - NO SPLITS				
ITEM	PART NUMBER	DESCRIPTION	QTY.	TORQU E (ft-lbs)
1	40-2-00294	ASSY, TRAILER AXLE - ST TANDM (RIDEWELL)	1	,
2	40-2-00361	Assy, ST Ladder 933/1166	1	
3	40-2-00362	Assy, ST Axle Strut	2	
4	40-2-00363	Assy, ST Cross Brace	3	
5	40-2-00364	Assy, ST 32' 933-Integrated Frame w/ 34' Bridge	1	
6	40-2-00365	Assy, Side Marker - Amber	2	
7	40-2-00366	Assy, Bolt-On Hopper Extension	1	
8	90-41-4007	Tubing, Air Line Red DOT - 1/2" (1610008)	1	
9	90-41-4008	Tubing, Air Line Blue DOT - 1/2" (1610008)	1	
10	90-41-4011	Hose, Air Brake DOT - 3/8" ID (1014307)	1	
11	90-41-4012	Tubing, Air Line Green DOT - 3/8" (1610006)	1	
12	90-46-1050	Wire Kit, ST933 Trailer	1	
13	40-2-00245	ASSEMBLY, ST TENDER JACKS	1	
14	20-2-00143	ASSEMBLY, 18IN SWING REST - SS	1	
15	40-2-00246	ASSEMBLY, ST KINGPIN - 933 & 1166	1	



TEM	ı ⊏IVI	PART	7 32' 933-Integrated Frame w/ 34' Bridge		QTY.	TORQUE
2 90-44-0280 Decal, ST933 RH 1 4 90-44-0281 Decal, Norwood ST 2 5 90-44-0282 Decal, Conspicuity Tape Red/White Roll -2" X 150" 2 6 90-44-0282 Decal, Conspicuity Tape Red/White Roll -2" X 150" 2 7 90-44-0283 Decal, Conspicuity Tape Red/White Roll -2" X 150" 2 8 90-44-0283 Decal, Conspicuity Tape Red/White Roll -2" X 150" 2 9 90-44-0284 Decal, Warning - Ladder Safety 2 9 90-44-0285 Decal, Warning - Machine Safety 2 10 90-44-0286 Decal, Warning - Machine Safety 1 11 90-44-0410 Decal, Yellow Retroreflective 4 12 90-44-0410 Decal, Red Retroreflective 4 13 90-46-0014 Clearance Light, 2.5in Round Red 3 14 90-52-0041 Fitting, Manifold 3" BSP 4 16 90-99-0039 Cap, 3" Poly Cam Lever 4 16 90-99-0039 GROMMET, "I ID X 1.38" HOLE DIA .25" PANEL 2 17 T0051669 Decal, Warning-Hyd Fluid 1 NORWOOD 4 2 5" ST933 Fartifizer & Seed Tender					+	(ft-lbs)
3 90-44-0281 Decal, ST933 RH 1 1 1 1 1 1 1 1 1	<u> </u>			KATED FRAME - 34FT BRIDGE	-	
4 90-44-0281 Decal, Norwood ST 2 90-44-0282 Decal, Conspicuity Tape Red/White Roll -2" X 150" 2 2 2 2 2 2 2 2 2					<u> </u>	
State						
6 90-44-0282 Decal, Conspicuity Tape Red/White Roll -2" X 150" 7 90-44-0283 Decal, Crush Hazard Do Not Enter 8 90-44-0284 Decal, Warning - Ladder Safety 9 90-44-0285 Decal, Warning - Machine Safety 10 90-44-0286 Decal, Danger - Electrocution Hazard 11 90-44-0410 Decal, Yellow Retroreflective 12 90-44-0411 Decal, Red Retroreflective 13 90-46-0014 Clearance Light, 2.5 in Round Red 15 90-52-0039 Cap, 3" Poly Cam Lever 16 90-99-0039 GROMMET, 1" ID X 1.38" HOLE DIA .25" PANEL 17 T0051669 Decal, Warning-Hyd Fluid 1 NORWOOD 4 2 5" ST933 Fortilizar & Soud Tander 1 3" 1			•	JI 2" Y 150'		
7 90-44-0283 Decal, Crush Hazard Do Not Enter 1 1 8 90-44-0284 Decal, Warning - Ladder Safety 2 2 9 90-44-0285 Decal, Warning - Machine Safety 1 1 1 1 1 1 1 1 1						
8 90-44-0284 Decal, Warning - Ladder Safety 9 90-44-0285 Decal, Warning - Machine Safety 10 90-44-0286 Decal, Danger - Electrocution Hazard 11 90-44-0410 Decal, Yellow Retroreflective 12 90-44-0411 Decal, Red Retroreflective 13 90-46-0014 Clearance Light, 2.5 in Round Red 14 90-52-0039 Cap, 3" Poly Cam Lever 15 90-52-0039 Cap, 3" Poly Cam Lever 16 90-99-0039 GROMMET, 1" ID X 1.38" HOLE DIA .25" PANEL 17 T0051669 Decal, Warning-Hyd Fluid 1 1 ST9333 Fartilizar & Saed Transfer ST9333 Fartilizar & Saed Transfer				MI-2 ∧ 130		
9 90-44-0285 Decal, Warning - Machine Safety 10 90-44-0286 Decal, Danger - Electrocution Hazard 11 90-44-0410 Decal, Yellow Retroreflective 4 4 12 90-44-0411 Decal, Red Retroreflective 4 4 13 90-46-0014 Clearance Light, 2.5in Round Red 3 14 90-52-0039 Cap, 3" Poly Cam Lever 4 5 90-52-0041 Fitting, Manifold 3" BSP 4 6 90-99-0039 GROMMET, 1" ID X 1.38" HOLE DIA .25" PANEL 2 17 T0051669 Decal, Warning-Hyd Fluid NORWOOD 4 2 5" ST933 Fertilizer & Seed Tonder ST933 Fertilizer & Seed Tonder	•					
10 90-44-0286 Decal, Danger - Electrocution Hazard 1 1 1 1 1 90-44-0410 Decal, Yellow Retroreflective 4 1 2 90-44-0411 Decal, Red Retroreflective 4 1 3 90-46-0014 Clearance Light, 2.5 in Round Red 3 3 1 4 90-52-0039 Cap, 3" Poly Cam Lever 4 15 90-52-0041 Fitting, Manifold 3" BSP 4 16 90-99-0039 GROMMET, 1" ID X 1.38" HOLE DIA .25" PANEL 2 17 T0051669 Decal, Warning-Hyd Fluid 1 1 1 1 1 1 1 1 1					-	
11 90-44-0410 Decal, Yellow Retroreflective 4 12 90-44-0411 Decal, Red Retroreflective 4 4 13 90-45-0014 Clearance Light, 2.5in Round Red 3 3 14 90-52-0039 Cap, 3" Poly Cam Lever 4 15 90-52-0041 Fitting, Manifold 3" BSP 4 16 90-99-0039 GROMMET, 1" ID X 1.38" HOLE DIA .25" PANEL 2 17 T0051669 Decal, Warning-Hyd Fluid 1 1 1 1 1 1 1 1 3 1 3 1 1			-			
12 90-44-0411 Decal, Red Retroreflective 4 13 90-46-0014 Clearance Light, 2.5in Round Red 3 3 14 90-52-0039 Cap, 3" Poly Cam Lever 4 15 90-52-0041 Fitting, Manifold 3" BSP 4 16 90-99-0039 GROMMET, 1" ID X 1.38" HOLE DIA .25" PANEL 2 17 T0051669 Decal, Warning-Hyd Fluid 1 1 1 1 1 1 1 1 1					_	
13 90-46-0014 Clearance Light, 2.5in Round Red 14 90-52-0039 Cap, 3" Poly Cam Lever 15 90-52-0041 Fitting, Manifold 3" BSP 16 90-99-0039 GROMMET, 1" ID X 1.38" HOLE DIA .25" PANEL 17 T0051669 Decal, Warning-Hyd Fluid 1 NORWO Sales Inc. 18 1 3 8 1 1 3 8 1 1 8 1 3 8 1 1 1 1 3 8 1 1 1 1					-	
14 90-52-0039 Cap, 3" Poly Cam Lever 15 90-52-0041 Fitting, Manifold 3" BSP 16 90-99-0039 GROMMET, 1" ID X 1.38" HOLE DIA .25" PANEL 17 T0051669 Decal, Warning-Hyd Fluid NORWOOD 4 2 5" Sales Inc. 5" 3 4 NORWOOD 5 Sales Inc. 5" 3 4 Sales Inc.			,			
15 90-52-0041 Fitting, Manifold 3" BSP 16 90-99-0039 GROMMET, 1" ID X 1.38" HOLE DIA .25" PANEL 17 T0051669 Decal, Warning-Hyd Fluid 1 NORWOOD 4 2 5" Sales Inc. 1 3 4 NORWOOD 5 Sales Inc. 5" 3 4 NORWOOD 5 Sales Inc. 5" 3 4 NORWOOD 5 Sales Inc.			_			
16 90-99-0039 GROMMET, 1" ID X 1.38" HOLE DIA .25" PANEL 17 T0051669 Decal, Warning-Hyd Fluid 1 NORWOOD 4 2 5" Sales Inc. 5" 3 4 NORWO Sales Inc. 5" 3 8" \$T933 Fortilizer & Soud Tomder					-	-
TOUS 1669 Decal, Warning-Hyd Fluid NORWOOD 4 2 5" Sales Inc. 1 3 4 NORWO Sales Inc. 1 3 8 1 1 3 8 1 1 1 1 1 1 1 1 1 1 1 1 1			<u> </u>			
NORWOOD 4 2 5" Sales Inc. 5" 3 4 NORWOOD Sales Inc. 13" ST933 Fortilizer & Seed Tender ST933 Fortilizer & Seed Tender				25" PANEL	+	
NORWOOD 4 2 5" Sales Inc. 1\frac{1}{8}" 1\frac{3}{8}" ST933 Fortilizer & Seed To	1/	10051669	Decal, Warning-Hyd Fluid		1	<u>L</u>
· (<u>\$T\$</u>	033 Fe <i>rtilizer</i>	& Seed Tender	ociolizer &	Seed 1	Tender
Left Front View Right Front View						

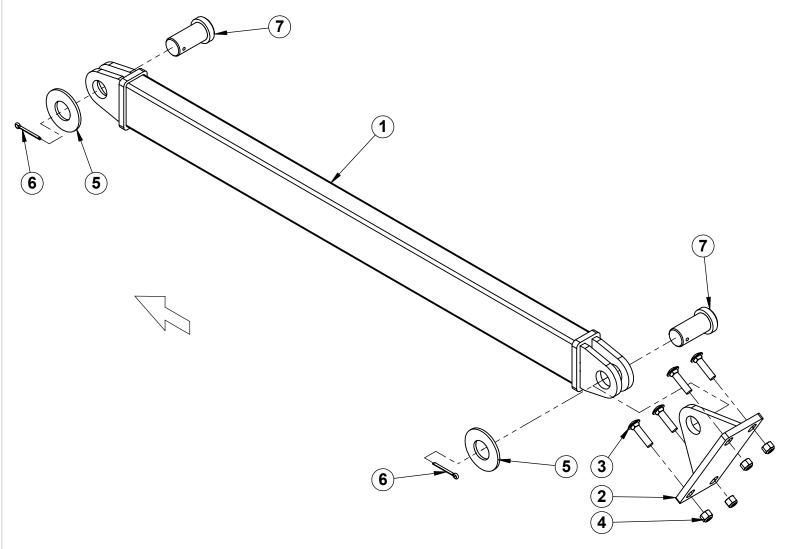




40-2-	40-2-00361 Assy, ST Ladder 933/1166					
ITEM	PART NUMBER	DESCRIPTION	QTY.	TORQUE (ft-lbs)		
1	40-3-00491	WELDMENT, ST 32FT 922 SIDE LADDER	1			
2	40-4-01992	BRACKET, LADDER FRONT - STAINLESS	2			
3	40-4-01993	BRACKET, LADDER BACK - STAINLESS	2			
4	90-10-0769-SS	Bolt, Hex 3/8-16 x 1 18-8 (S/S)	8			
5	90-13-2577-SS	Nut, Nylock 3/8-16 18-8 (S/S)	8			
6	90-16-4002	Pin, Snapper 1/4 x 3-1/2 (Usable Length)	2			

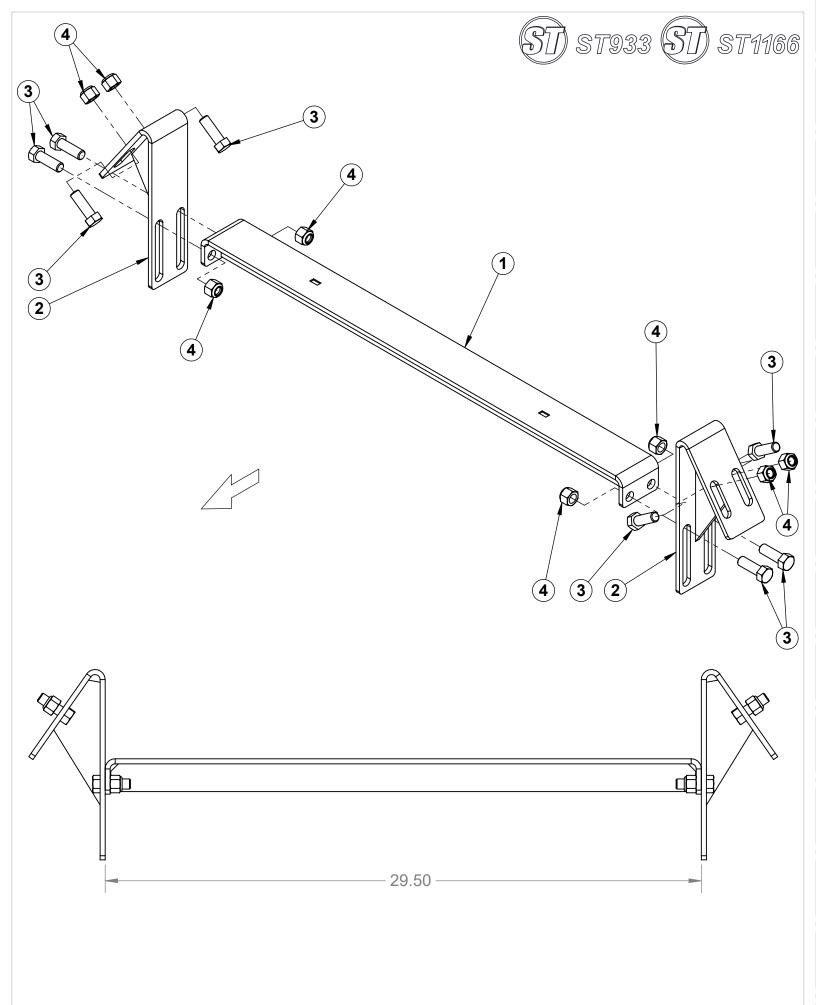
- 1. * The items indicated are shown for reference only, and must be assembled during final assembly.
- 2. ** The assemblies indicated are for illustrative purposes only and are not intended to be assembled in this sequence.





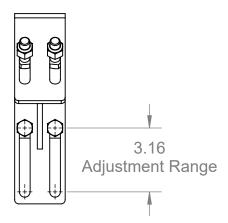
40-2-00362 Assy, ST Axle Strut						
ITEM	PART NUMBER	DESCRIPTION	QTY.	TORQUE (ft-lbs)		
1	40-3-00515	WELDMENT, ST AXLE STRUT	1			
2	40-3-00534	WELDMENT, STRUT TANG - AXLE	1			
3	90-10-7252	Bolt, Carriage 1/2-13 x 2 Gr5 ZP - Magni 565	4			
4	90-13-2596	Nut, Nylock 1/2-13 Gr8 Magni 565	4			
5	90-14-0085	Washer, Flat 1 1/2 ZP	2			
6	90-16-0245	Pin, Cotter 3/16 x 2 ZP	2			
7	90-16-3504	Pin, Clevis 1 1/2 x 3 ZP	2			

- 1. * The items indicated are shown for reference only, and must be assembled during final assembly.
- 2. ** The assemblies indicated are for illustrative purposes only and are not intended to be assembled in this sequence.

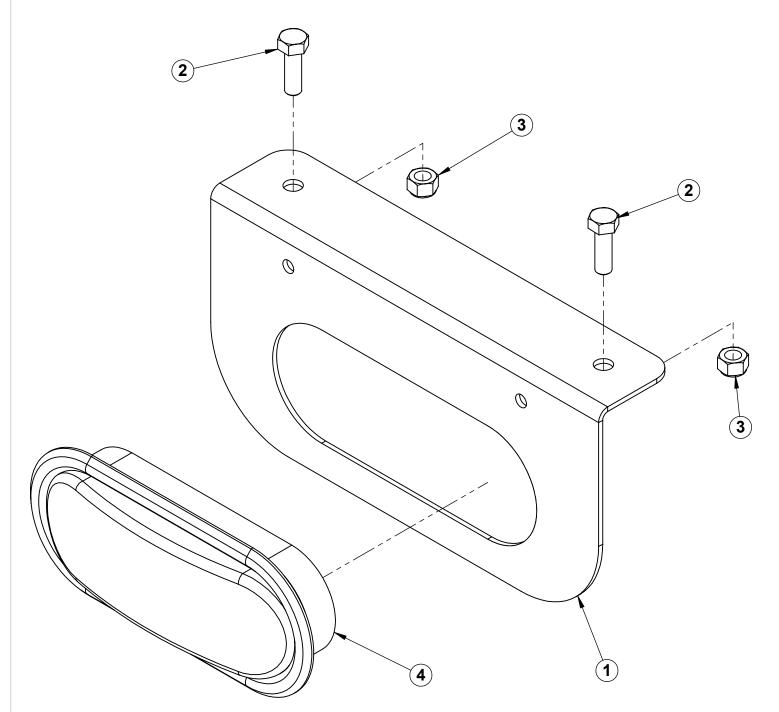


40-2-0	40-2-00363 Assy, ST Cross Brace				
ITEM	PART NUMBER	DESCRIPTION	QTY.	TORQUE (ft-lbs)	
1	40-3-00548	WELDMENT, ST CROSS BRACE - VERTICAL MOUNT	1		
2	40-3-00549	WELDMENT, ST CROSS BRACE VERTICAL - END MOUNT	2		
3	90-10-1605-SS	Bolt, Hex 1/2-13 x 1 1/2 SS	8		
4	90-13-2593-SS	Nut, Nylock 1/2-13 18-8 (S/S)	8		

- 1. * The items indicated are shown for reference only, and must be assembled during final assembly.
- 2. ** The assemblies indicated are for illustrative purposes only and are not intended to be assembled in this sequence.

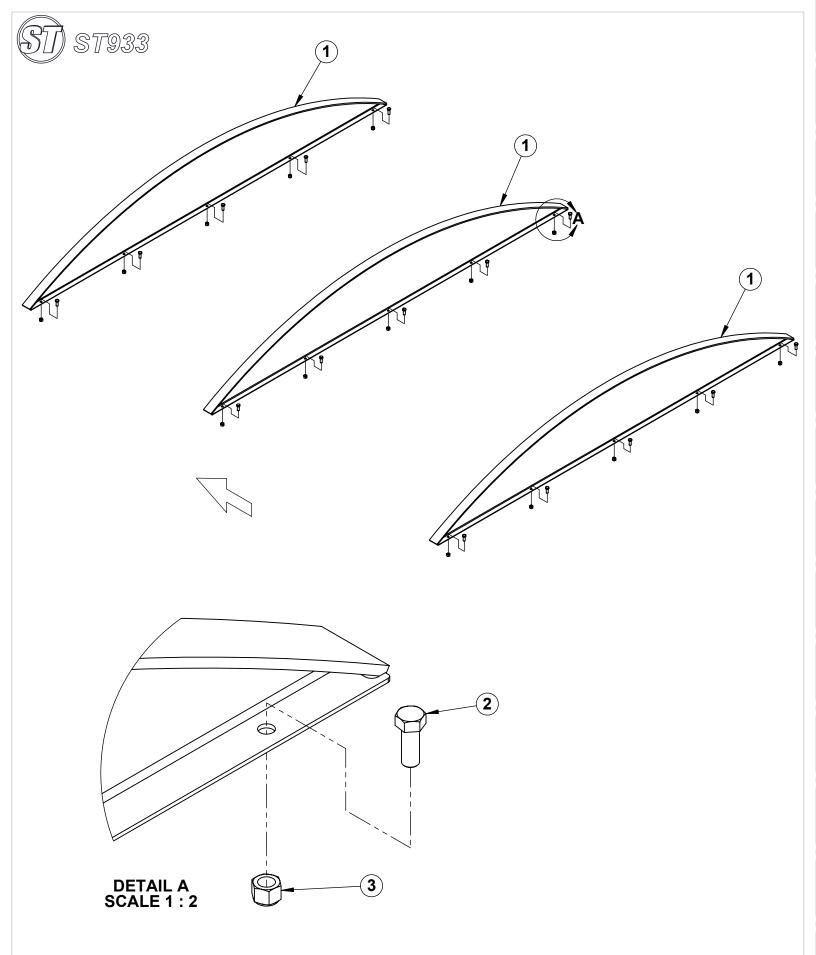






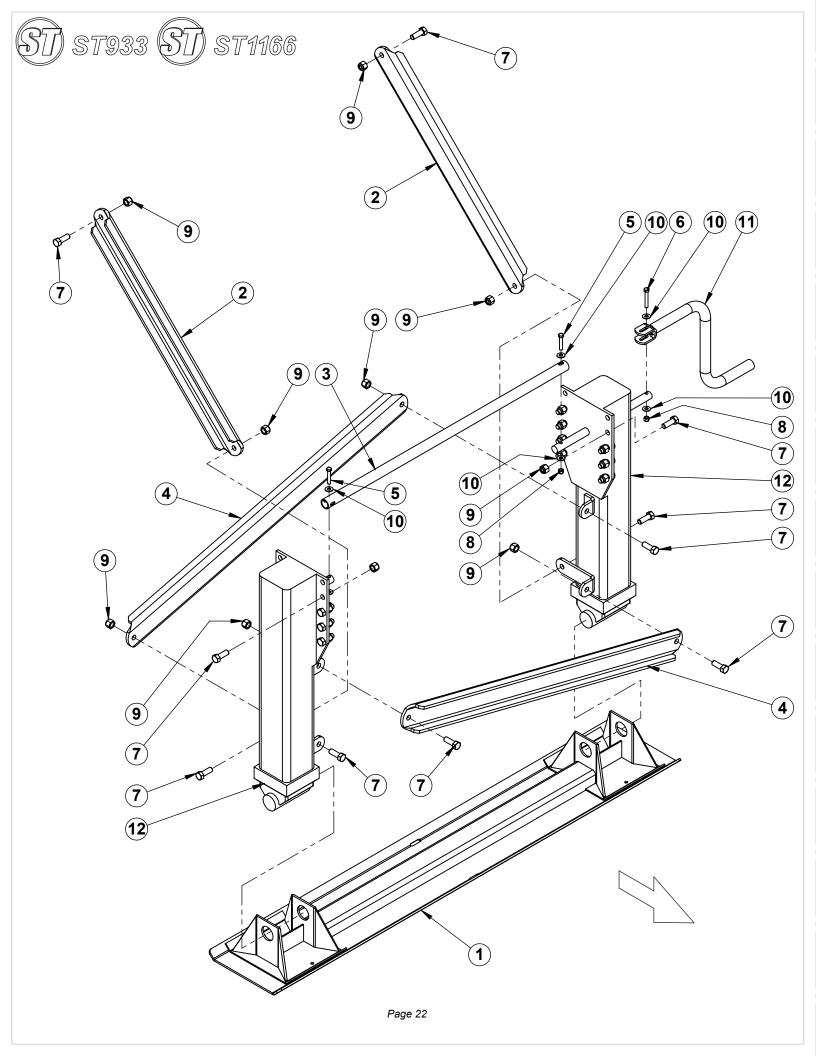
40-2-	40-2-00365 Assy, Side Marker - Amber				
ITEM	PART NUMBER	DESCRIPTION	QTY.	TORQUE (ft-lbs)	
1	40-4-01808	SHEET, ST INTERMEDIATE SIDE MARKER BRACKET	1		
2	90-10-0405-SS	Bolt, Hex 5/16-18 x 1 SS	2		
3	90-13-2569-SS	Nut, Nylock 5/16-18 18-8 (S/S)	2		
4	90-46-0015	Turn Signal, Oval, Amber	1		

- 1. * The items indicated are shown for reference only, and must be assembled during final assembly.
- 2. ** The assemblies indicated are for illustrative purposes only and are not intended to be assembled in this sequence.



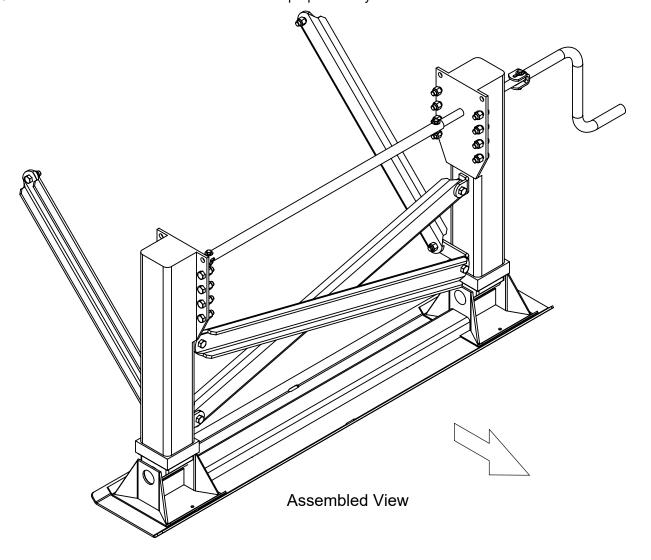
40-2-0	40-2-00366 Assy, Bolt-On Hopper Extension				
ITEM	PART NUMBER	DESCRIPTION	QTY.	TORQUE (ft-lbs)	
1	40-3-00331	WELDMENT, HOPPER EXTENSION - BOLT ON	3		
2	90-10-0769-SS	Bolt, Hex 3/8-16 x 1 18-8 (S/S)	15		
3	90-13-2578	Nut, Nylock 3/8-16 SS	15		

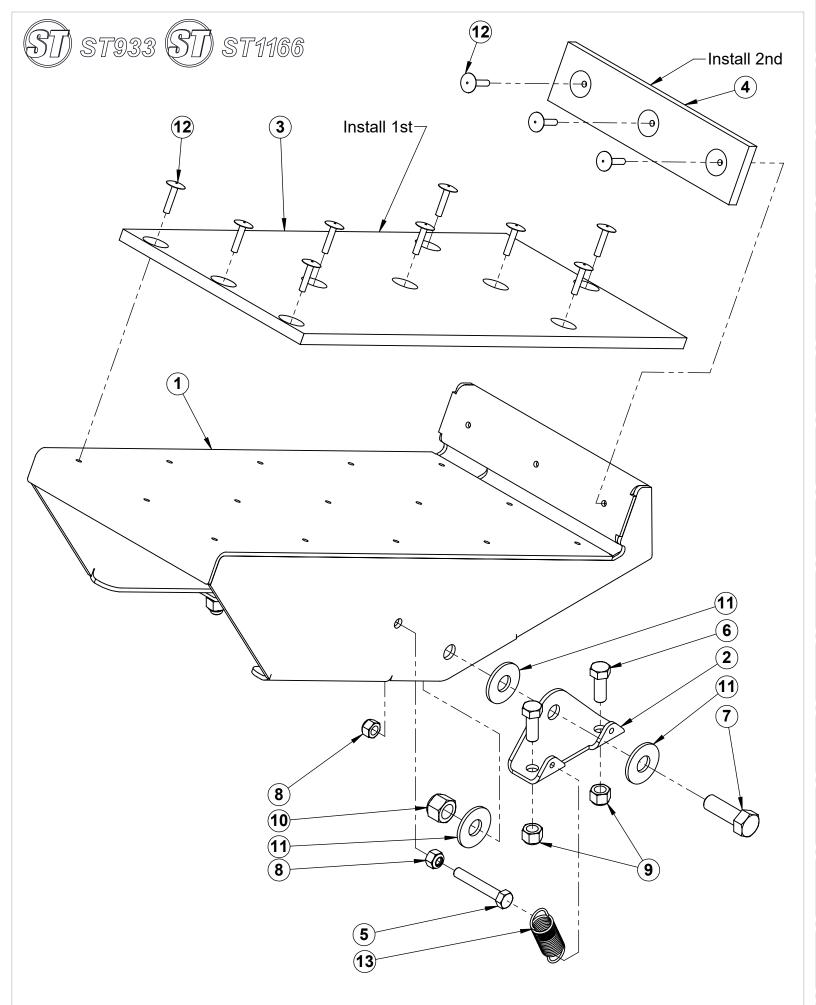
- 1. * The items indicated are shown for reference only, and must be assembled during final assembly.
- 2. ** The assemblies indicated are for illustrative purposes only and are not intended to be assembled in this sequence.



40-2-00245 ASSEMBLY, ST TENDER JACKS					
ITEM	PART NUMBER	DESCRIPTION	QTY.	TORQUE (ft-lbs)	
1	40-3-00641	WELDMENT, JACK FOOT - EXTENDED	1		
2	40-4-01826	PLATE, LANDING GEAR GUSSET - ST INTERGRATED	2		
3	40-4-01920	TUBE, ST INTERGRATED JACK SHAFT	1		
4	40-4-01942	PLATE, LANDING GEAR CROSS BRACE - ST INTERGRATED	2		
5	90-10-0823-SS	Bolt, Hex 3/8-16 x 2 18-8 (S/S) (Full)	2		
6	90-10-0841-SS	Bolt, Hex 3/8-16 x 2 1/2 Gr5 ZP	1		
7	90-10-2269	Bolt, Hex 5/8-11 x 1 3/4 Gr5 ZP	24		
8	90-13-2577-SS	Nut, Nylock 3/8-16 18-8 (S/S)	3		
9	90-13-2609	Nut, Nylock 5/8-11 Gr5 ZP	24		
10	90-14-0041-SS	Washer, Flat 3/8 18-8 (S/S)	6		
11	90-42-2015	Jack, Jost Handle - C10592.2	1		
12	90-42-2024	Jack, Jost Assembly Kit - A400T19S	1		

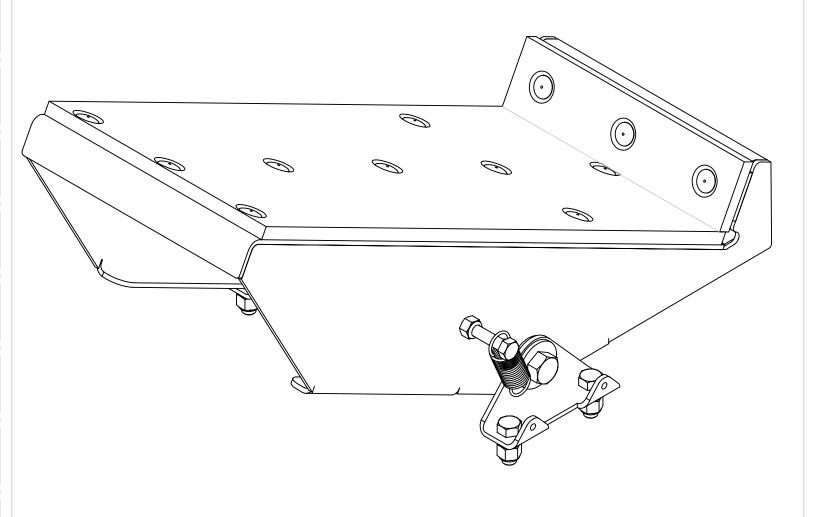
- 1. T=XXX = Torque Expressed in ft-lbs (Use standard torque values from drawing 90-10-0000 unless otherwise specified.
- 2. * The items indicated are shown for reference only, and must be assembled during final assembly.
- 3. ** The assemblies indicated are for illustrative purposes only and are not intended to be assembled in this sequence.

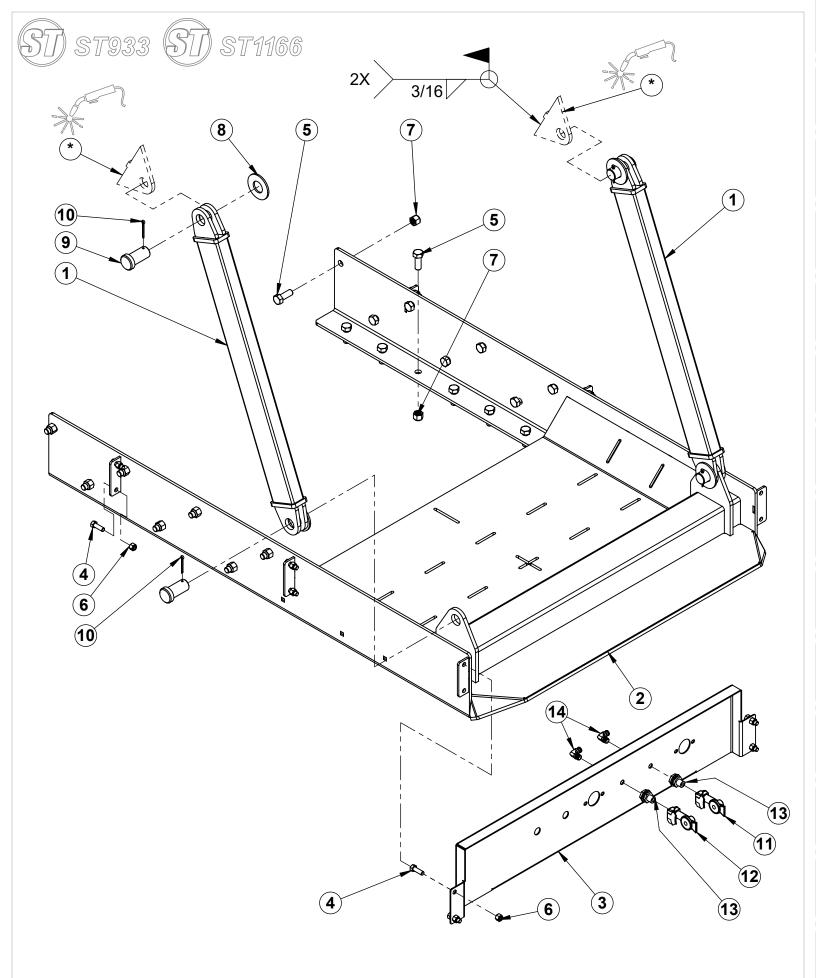




Page 24

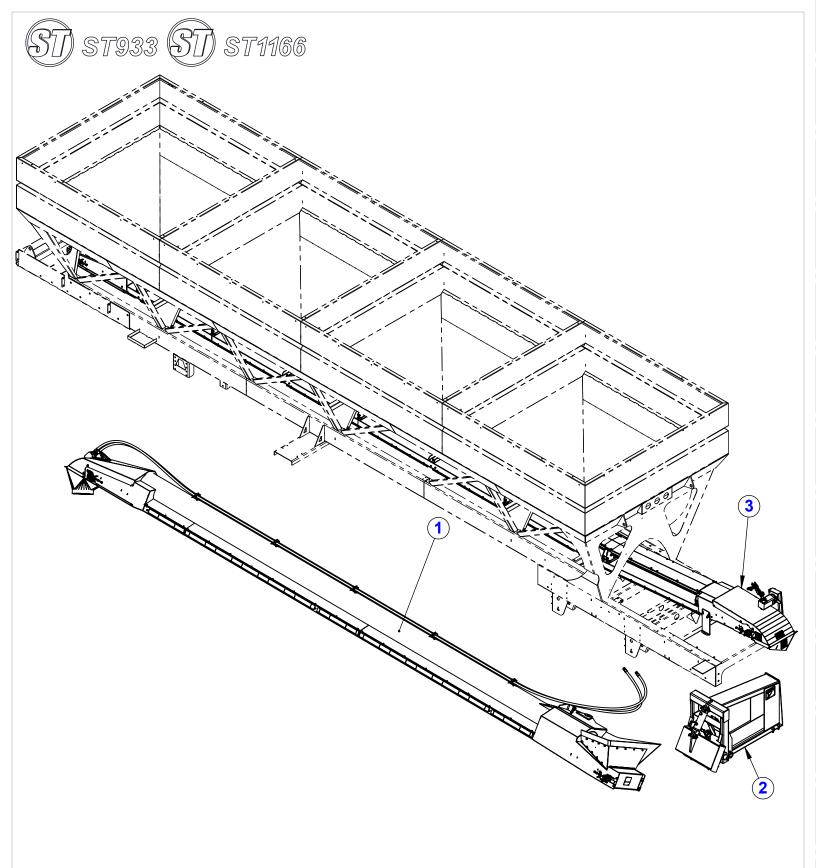
20-2-00143 ASSEMBLY, 18IN SWING REST - SS				
ITEM	PART NUMBER	DESCRIPTION	QTY.	TORQUE (ft-lbs)
1	20-3-00322	WELDMENT, 18IN SWING REST - SS	1	
2	20-4-01439	BRACKET, REST PIVOT - SS	2	
3	40-4-02336	PLASTIC, 18IN SWING REST - HORIZONTAL	1	
4	40-4-02337	PLASTIC, 18IN SWING REST - VERTICAL	1	
5	90-10-0453-SS	Bolt, Hex 5/16-18 x 2 Gr5 ZP	2	
6	90-10-0769-SS	Bolt, Hex 3/8-16 x 1 18-8 (S/S)	4	
7	90-10-1605-SS	Bolt, Hex 1/2-13 x 1 1/2 SS	2	
8	90-13-2569-SS	Nut, Nylock 5/16-18 18-8 (S/S)	4	
9	90-13-2577-SS	Nut, Nylock 3/8-16 18-8 (S/S)	4	
10	90-13-2593-SS	Nut, Nylock 1/2-13 18-8 (S/S)	2	
11	90-14-0049-SS	Washer, Flat 1/2 SS	6	
12	90-15-0006	Rivet, Blind 3/16" Stud x 0.93 Long - Alum	12	
13	90-21-0007	Spring, Extension - 0.75 x 2.25 x 0.069 MW ZP	2	



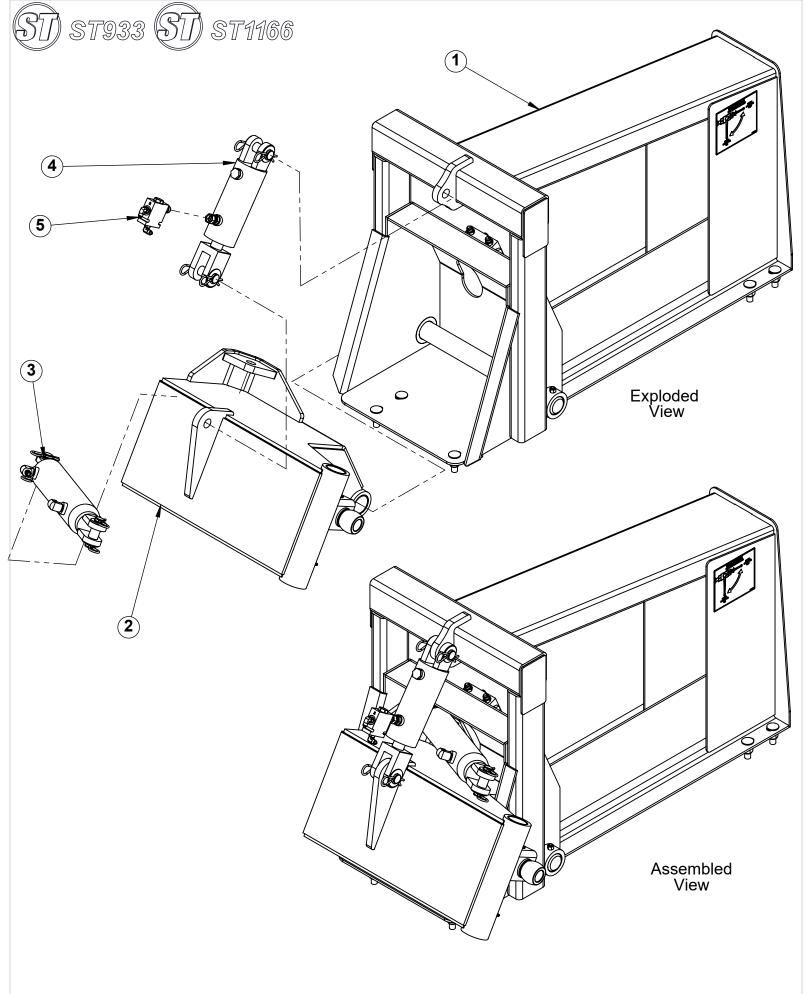


40-2-00246 ASSEMBLY, ST KINGPIN - 933 & 1166						
ITEM	PART NUMBER	DESCRIPTION	QTY.	TORQUE (ft-lbs)		
1	40-3-00514	WELDMENT, ST KINGPIN STRUT	2			
2	40-3-00608	WELDMENT, ST KING PIN SUB FRAME - SINGLE PIECE	1			
3	40-4-01951	SHEET, INPUT CONTROL BOARD	1			
4	90-10-1605-SS	Bolt, Hex 1/2-13 x 1 1/2 SS	12			
5	90-10-2802	Bolt, Hex 3/4-10 x 2 Gr8 - Magni 565	26			
6	90-13-2593-SS	Nut, Nylock 1/2-13 18-8 (S/S)	12			
7	90-13-2620	Nut, Nylock 3/4-10 Gr8 Magni 565	26			
8	90-14-0085	Washer, Flat 1 1/2 ZP	4			
9	90-16-3504	Pin, Clevis 1 1/2 x 3 ZP	4			
10	90-16-0245	Pin, Cotter 3/16 x 2 ZP	4			
+ 11	90-41-3021	Fitting, Gladhand, 1/2" (Emergency)	1			
+ 12	90-41-3022	Fitting, Gladhand, 3/8" (Service)	1			
+ 13	90-41-3023	Adapter, Bulkhead, 1/2MP x 3/8FP	2			
+ 14	90-41-3034	Fitting, 06MP x 08 ABS Tube Elbow	2			

- 1. T=XXX = Torque Expressed in ft-lbs (Use standard torque values from drawing 90-10-0000 unless otherwise specified.
- = Weld at the time of assembly, assemble lower Kingpin Strut to sub-frame, then assemble Clevis Pin, and washer to the 2 plates P/N 40-4-01951, Weld per welding standard. Items with a (*) are shown for reference, these are included in the bill of material for the main tank weldment.
 - 3. The items indicated with a (+) are included in the 90-99-0093, and 90-99-0094 fitting kits, do not include in manufacturing bill of material at this level.

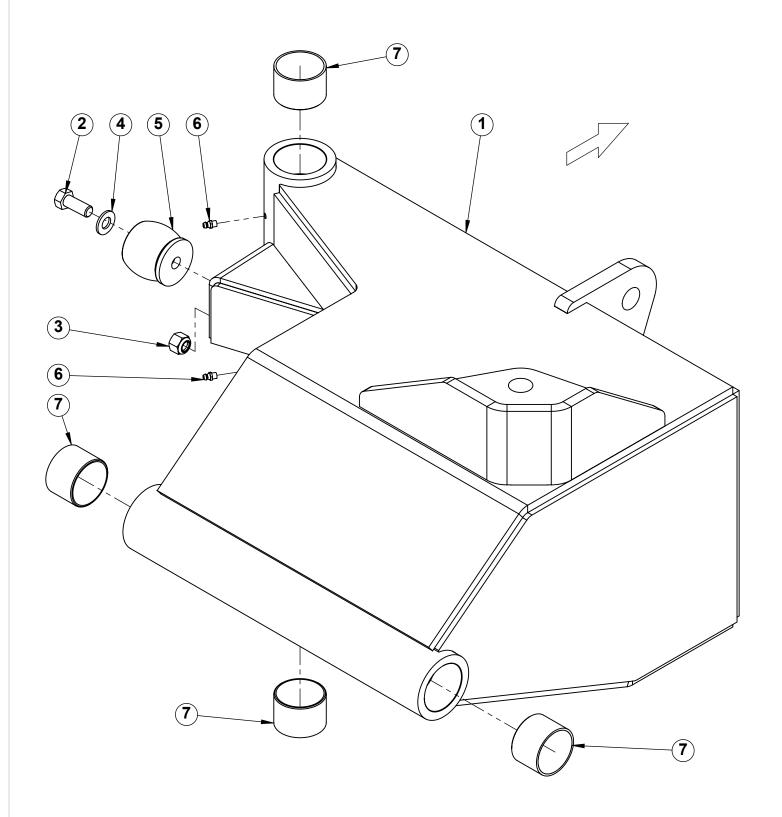


40-2-	40-2-00242 ASSEMBLY, ST933 CONVEYOR SYSTEM					
ITEM	PART NUMBER	DESCRIPTION	QTY.	TORQUE (ft-lbs)		
1	40-2-00355	Assy, Swing Conveyor 18" X 30'	1			
2	40-2-00247	ASSEMBLY, ST SWING PIVOT KNUCKLE	1			
3	20-2-00112	ASSEMBLY, ST 933 UNDERBIN CONVEYOR - 34FT BRIDGE	1			



40-2-00247 ASSEMBLY, ST SWING PIVOT KNUCKLE								
ITEM	PART NUMBER	DESCRIPTION	QTY.	TORQUE (ft-lbs)				
1	40-2-00287	ASSY, SWING BASE 12IN-5 DEG BEND	1					
2	40-2-00288	ASSY, SWING PIVOT 12IN	1					
3	40-2-00289	ASSY, SWING IN/OUT CYLINDER	1					
4	40-2-00290	ASSY, LIFT/LOWER CYLINDER	1					
5	40-2-00291	ASSY, LIFT/LOWER CHECK VALVE	1					

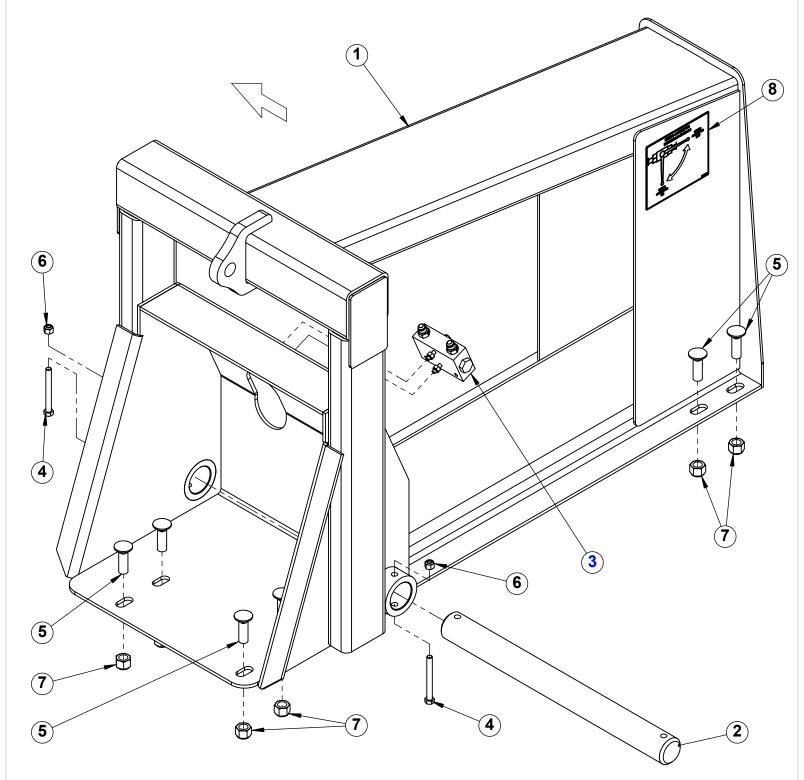




40-2-00288 ASSY, SWING PIVOT 12IN							
ITEM	PART NUMBER	DESCRIPTION	QTY.	TORQUE (ft-lbs)			
1	20-3-00106-E	WELDMENT, 12IN SWING PIVOT	1	, ,			
2	90-10-1597-SS	Bolt, Hex 1/2-13 x 1-1/4 18-8 (S/S)	1				
3	90-13-2593-SS	Nut, Nylock 1/2-13 18-8 (S/S)	1				
4	90-14-0051-SS	Washer, Flat 1/2 SAE SS	1				
5	90-21-0006	Spring, HD Plastic Bumper GBA-11	1				
6	90-23-0002	Grease Fitting, Straight, 1/4-28	2				
7	90-24-4007	Bushing, Plastic - 2.00ID x 2.188 OD x 1.50 long	4				

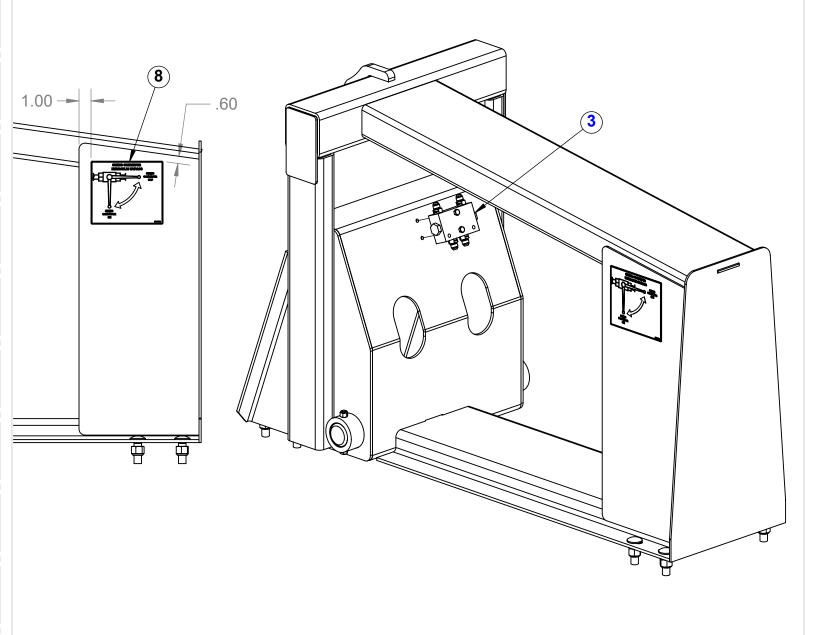
- 1. * The items indicated are shown for reference only, and must be assembled during final assembly.
- 2. ** The assemblies indicated are for illustrative purposes only and are not intended to be assembled in this sequence.



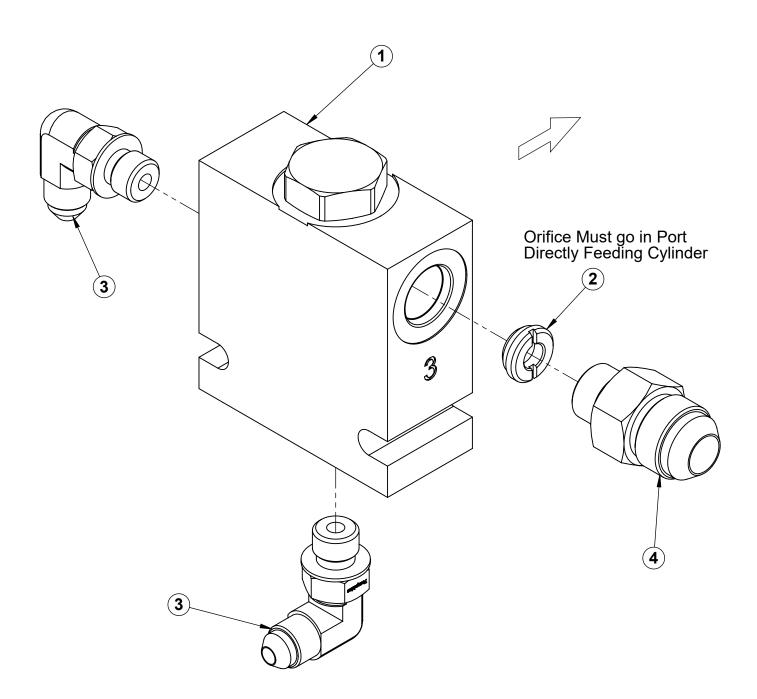


40-2-00287 ASSY, SWING BASE 12IN-5 DEG BEND							
ITEM	PART NUMBER	DESCRIPTION	QTY.	TORQUE (ft-lbs)			
1	20-3-00246-E	WELDMENT, 12IN SWING BASE - 5 DEG BEND	1				
2	20-4-00202	SHAFT, CONVEYOR LIFT	1				
3	40-2-00292	Assy, Locking 06	1				
4	90-10-0877-SS	HEX BOLT, 3/8 X 3.5 GR5-CT-ZP	2				
5	90-10-7324	Bolt, Carriage 5/8-11 x 2 Gr5 ZP - Magni 565	8				
6	90-13-2577-SS	Nut, Nylock 3/8-16 18-8 (S/S)	2				
7	90-13-2611	LOCK NUT, NYLON 5/8" GR5-CT-ZP	8				
8	90-44-0293	Decal, Swing Conveyor Power Bypass	1				

- 1. * The items indicated are shown for reference only, and must be assembled during final assembly.
- 2. ** The assemblies indicated are for illustrative purposes only and are not intended to be assembled in this sequence.



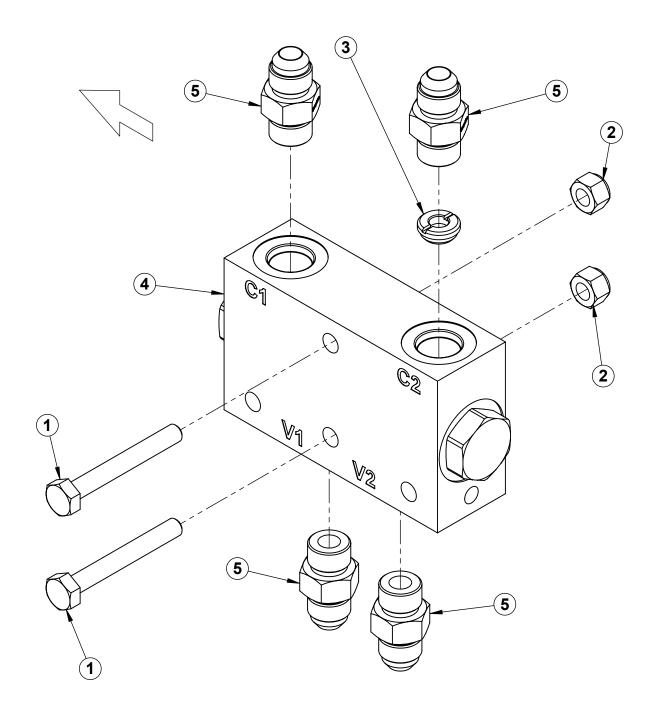




40-2-	40-2-00291 ASSY, LIFT/LOWER CHECK VALVE				
ITEM	PART NUMBER	DESCRIPTION	QTY.		
1	90-36-0004	Check Valve, Pilot Operated	1		
2	90-36-0017	Orifice Disc, 06 MO Port 0.022 Hole (16166-217)	1		
3	90-38-0114	Adapter, 90° Elbow, 06 MJ x 06 MO	2		
4	90-38-0242	Adapter, Straight, 06 MO x 08 MJ	1		

- 1. * The items indicated are shown for reference only, and must be assembled during final assembly.
- 2. ** The assemblies indicated are for illustrative purposes only and are not intended to be assembled in this sequence.

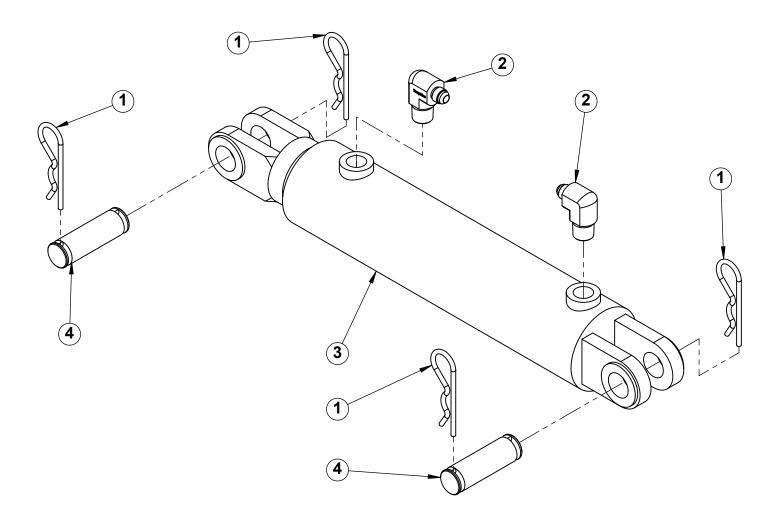




40-2-0	40-2-00292 Assy, Double Pilot Check #6				
ITEM	PART NUMBER	DESCRIPTION	QTY.	TORQUE (ft-lbs)	
1	90-10-0077	Bolt, Hex 1/4-20 x 2 Gr5 ZP	2		
2	90-13-2561	Nut, Nylock 1/4-20 Gr5 ZP	2		
3	90-36-0017	Orifice Disc, 06 MO Port 0.022 Hole (16166-217)	1		
4	90-36-0039	Valve, Double Pilot Check #6	1		
5	90-38-0259	Adapter, Straight, 06 MO x 06 MJ	4		

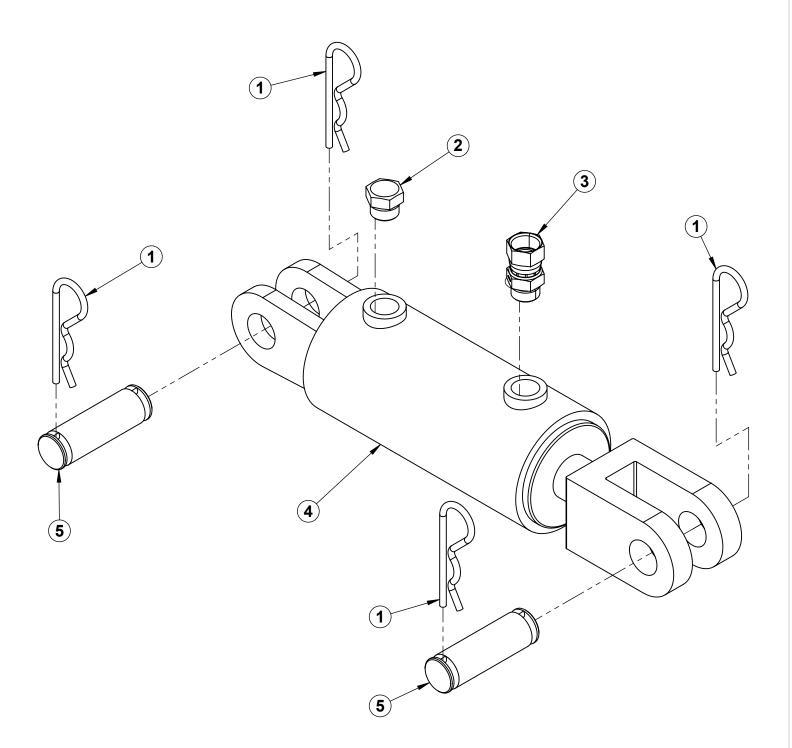
- 1. * The items indicated are shown for reference only, and must be assembled during final assembly.
- 2. ** The assemblies indicated are for illustrative purposes only and are not intended to be assembled in this sequence.





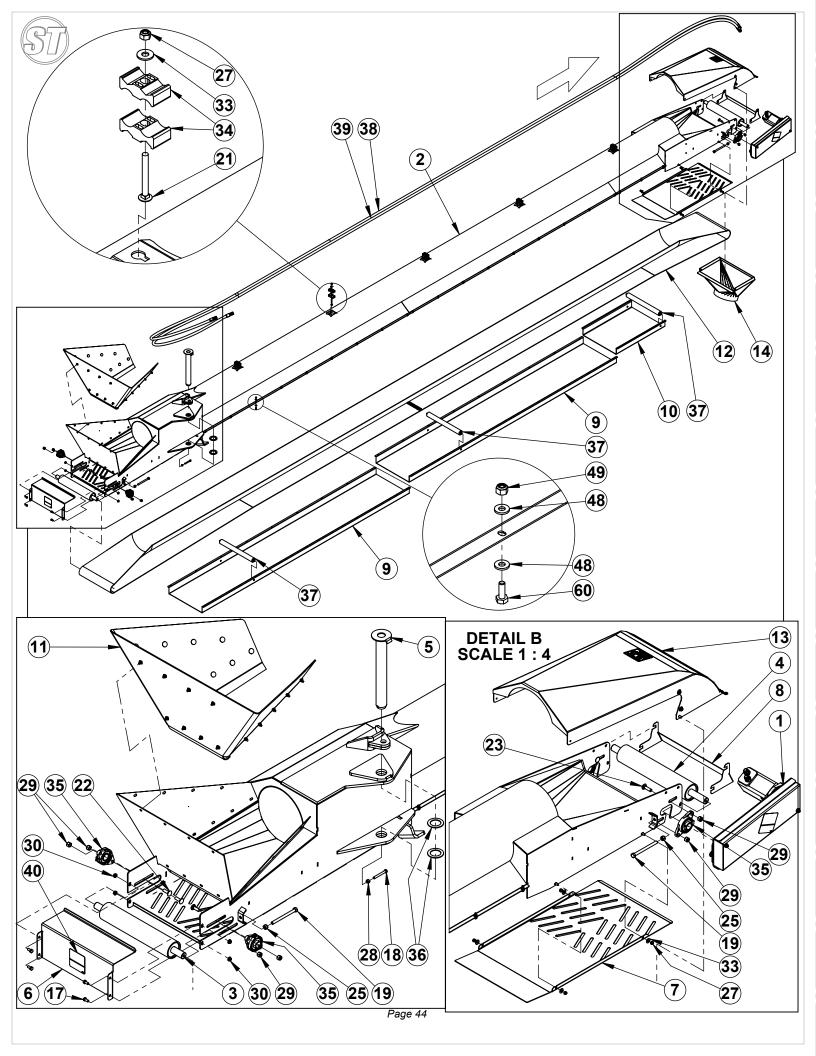
40-2-	40-2-00289 ASSY, SWING IN/OUT CYLINDER					
ITEM	PART NUMBER	DESCRIPTION	QTY.	TORQUE (ft-lbs)		
1	90-16-1070	Pin, Hair 11/64 x 3 1/2 ZP (3/4 - 1 1/16 Pin Dia)	4			
2	90-38-0095	Adapter, 90° Elbow, 08 MP x 06 MJ	2			
3	90-39-0004	Cylinder, 3" Bore x 10" Stroke x 1" Clevis (20.25" Closed)	1			
4	90-39-2003	HYDRAULIC CYLINDER PIN, 1" X 3" LONG	2			

- 1. * The items indicated are shown for reference only, and must be assembled during final assembly.
- 2. ** The assemblies indicated are for illustrative purposes only and are not intended to be assembled in this sequence.



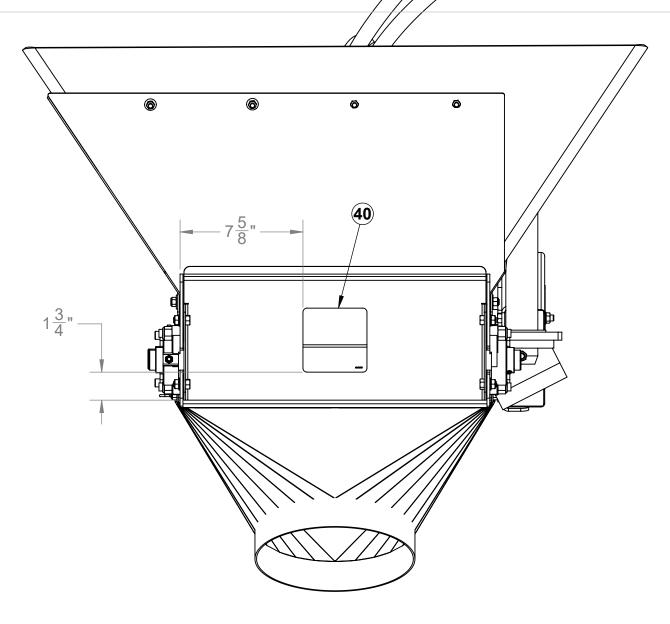
40-2-	40-2-00290 ASSY, LIFT/LOWER CYLINDER				
ITEM	PART NUMBER	DESCRIPTION	QTY.		
1	90-16-1070	Pin, Hair 11/64 x 3 1/2 ZP (3/4 - 1 1/16 Pin Dia)	4		
2	90-38-0269	Adapter, Breather 08MO	1		
3	90-38-0316	Adapter, Straight, 08 MO x 08 FJX	1		
4	90-39-0082	Cylinder, 3" Bore x 4" Stroke (Black)	1		
5	90-39-2003	HYDRAULIC CYLINDER PIN, 1" X 3" LONG	2		

- 1. * The items indicated are shown for reference only, and must be assembled during final assembly.
- 2. ** The assemblies indicated are for illustrative purposes only and are not intended to be assembled in this sequence.



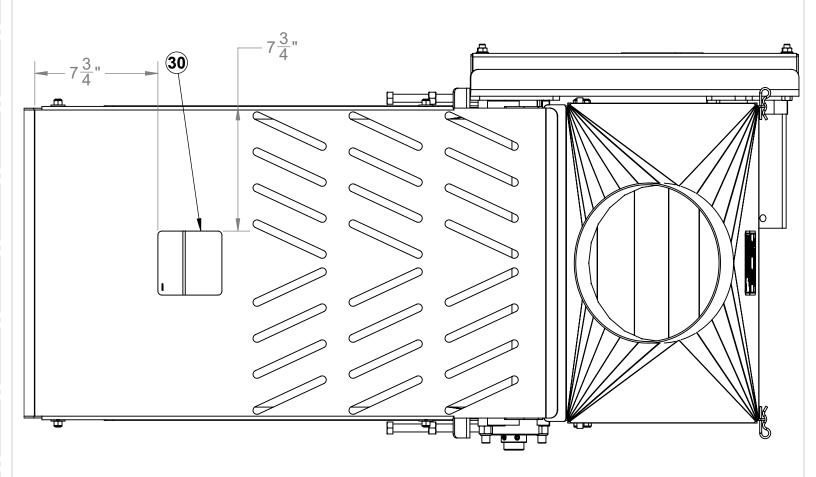
40-2-00355 Assy, Swing Conveyor 18" X 30'				
ITEM	PART NUMBER	DESCRIPTION	QTY.	TORQUE (ft-lbs)
1	20-2-00168-SS	Assy, ST Swing Conveyor HYD Drive	1	()
2	20-3-00098-SS	WELDMENT, 12 X 30 SWING CONVEYOR	1	
3	20-3-00099-SS	WELDMENT, 18IN TAIL PULLEY	1	
4	20-3-00100-SS	WELDMENT, 18IN DRIVE PULLEY	1	
5	20-3-00104	WELDMENT, 12IN SWING PIN	1	
6	20-4-00475-SS	PLATE, 18IN TAIL END COVER	1	
7	20-4-00478-SS	SHEET, 18IN HEAD BOTTOM	1	
8	20-4-00487-SS	SHEET, 18IN DEFLECTOR	1	
9	20-4-00489-SS	DRIP PAN, 18 X 119 SWING	2	
10	20-4-00490-SS	DRIP PAN, 18 X 31 SWING REST	1	
11	40-2-00356	Assy, Swing Conveyor Rubber Intake Hopper	1	
12	40-2-00357	Assy, Belt Swing Conveyor 18"x59'-6"	1	
13	40-2-00359	Assy, Swing Conveyor 18" Discharge Hood	1	
14	40-2-00360	Assy, Discharge Spout - Removable	1	
15	90-10-0013-SS	Bolt, Hex 1/4-20 x 3/4 18-8 (S/S)	36	
16	90-10-0025-SS	Bolt, Hex 1/4-20 x 1 18-8 (S/S)	6	
17	90-10-0761-SS	Bolt, Hex 3/8-16 x 3/4 18-8 (S/S)	4	
18	90-10-0861-SS	Bolt, Hex 3/8-16 x 3 SS	1	
19	90-10-1755-SS	Bolt, Hex 1/2-13 x 6 SS (Full)	4	
20	90-10-7071-SS	Bolt, Carriage 5/16-18 x 3/4 18-8 (S/S)	4	
21	90-10-7091 SS	Bolt, Carriage 5/16-18 x 2 3/4 SS	5	
22	90-10-7247-SS	Bolt, Carriage 1/2-13 x 1 1/2 18-8 (S/S)	4	
23	90-10-7249-SS	Bolt, Carriage 1/2-13 x 1 3/4 18-8 (S/S)	4	
24	90-13-0066-SS	Nut, Hex 1/4-20 18-8 (S/S)	4	
25	90-13-0146-SS	HEX NUT, 1/2" GR5-CT-ZP	4	
26	90-13-2561-SS	Nut, Nylock 1/4-20 18-8 (S/S)	42	
27	90-13-2569-SS	Nut, Nylock 5/16-18 18-8 (S/S)	9	
28	90-13-2577-SS	Nut, Nylock 3/8-16 18-8 (S/S)	1	
29	90-13-2593-SS	Nut, Nylock 1/2-13 18-8 (S/S)	8	
30	90-13-3043-SS	Nut, Flanged 3/8-16 18-8 (S/S) (Serrated)	4	
31	90-14-0033-SS	Washer, Flat 1/4 18-8 (S/S)	4	
32	90-14-0035-SS	Washer, Flat 1/4 ZP (SAE) (S/S)	84	
33	90-14-0037-SS	FLAT WASHER, 5/16 ZP	9	
34	90-18-0002	Clamp, Hose, Plastic Twin	10	
35	90-24-0032	Bearing, 1.25", 2-Bolt Flange Stainless Steel	4	
36	90-24-4002	Bushing, Bronze - 2.00ID x 3.00OD x 0.125 Thick	2	
37	90-30-2009	Roller, 1.9" OD x 18.875" BF x 7/16" Hex Stainless Steel	3	
38	90-37-1705	Hose, 10 x 384" OAL, 10FJX x 10FJX	1	
39	90-37-1706	Hose, 10 x 384" OAL, 10FJX x 10FJX	1	
40	90-44-0167	DECAL, ROTATING PARTS HAZARD DECAL	2	
41	90-44-0282	Decal, Conspicuity Tape Red/White Roll (per FT)	14.666	
42	90-44-0282	Decal, Conspicuity Tape Red/White Roll (per FT)	2	
43	90-44-0282	Decal, Conspicuity Tape Red/White Roll (per FT)	4.666	



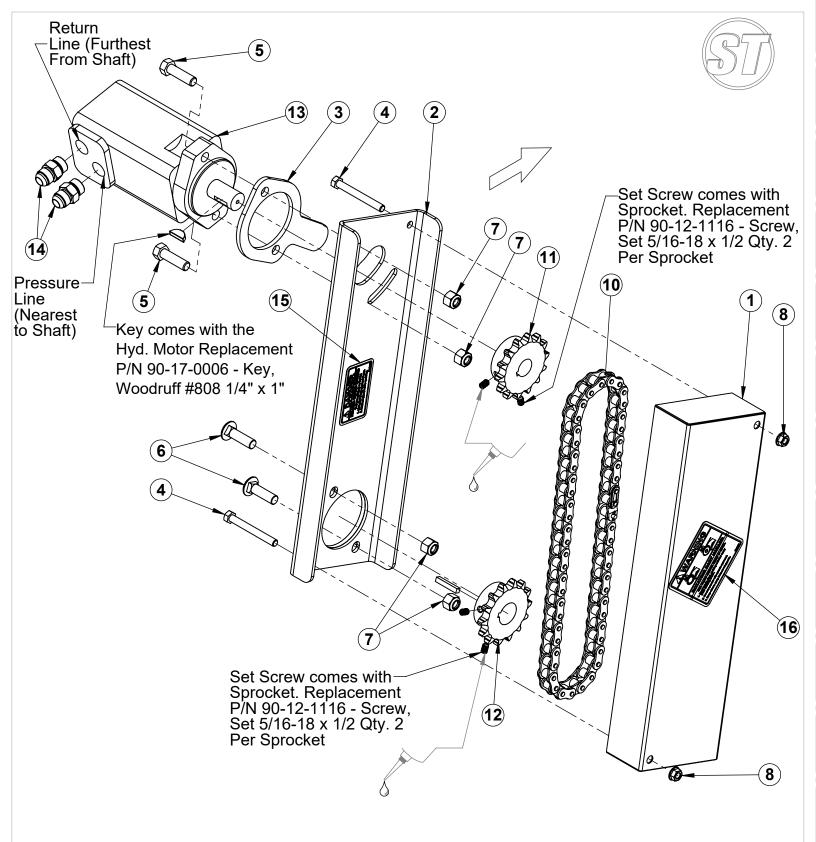


End of Intake End

40-2-0	00355 Assy, Sv	ving Conveyor 18" X 30'	
ITEM	PART NUMBER	DESCRIPTION	QTY.
30	90-44-0167	DECAL, ROTATING PARTS HAZARD DECAL	2
31	90-44-0282	Decal, Conspicuity Tape Red/White Roll (per FT)	14.666
32	90-44-0282	Decal, Conspicuity Tape Red/White Roll (per FT)	2
33	90-44-0282	Decal, Conspicuity Tape Red/White Roll (per FT)	4.666

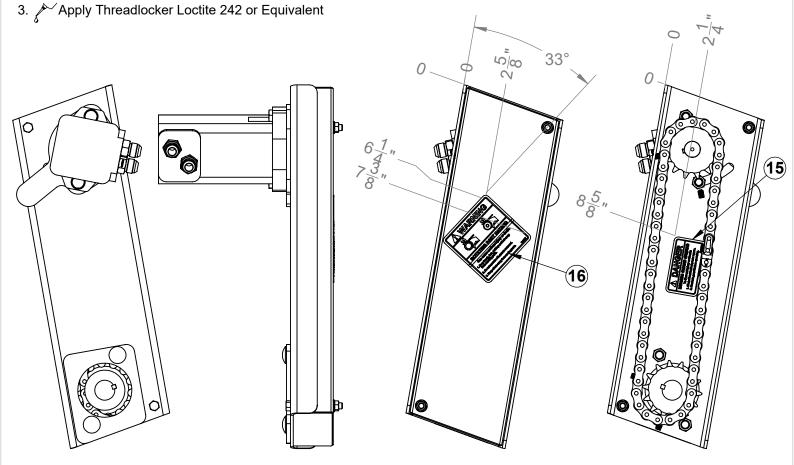


Bottom Of Discharge End

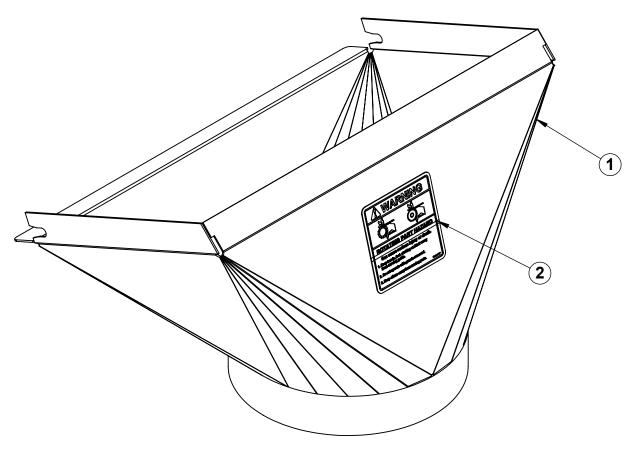


20-2-	20-2-00168-SS Assy, ST Swing Conveyor HYD Drive					
ITEM	PART NUMBER	DESCRIPTION	QTY.	TORQUE (ft-lbs)		
1	20-3-00323	WELDMENT, 18IN DRIVE GUARD - SS	1			
2	20-3-00324	WELDMENT, 18IN DRIVE MOUNT - SS	1			
3	20-4-01452	BRACKET, 18IN CONVEYOR DRIVE TENSIONER - SS	1			
4	90-10-0873	Bolt, Hex 3/8-16 x 3 1/4 Gr5 ZP	2			
5	90-10-1613-SS	Bolt, Hex 1/2-13 x 1 3/4 SS	2			
6	90-10-7249	Bolt, Carriage 1/2-13 x 1 3/4 Gr5 ZP	2			
7	90-13-2593	Nut, Nylock 1/2-13 Gr5 ZP	4			
8	90-13-3043	Nut, Flanged 3/8-16 Gr5 ZP (Serrated)	2			
9	90-17-0006	Key, Woodruff #808 1/4 x 1	1			
10	90-27-0016	Chain #60x54 Pitches w Conn Lnk w/1/2 link (55.5 Links Total)	1			
11	90-29-0015	Sprocket, 60B14 x 1.00" Bore	1			
12	90-29-0016	Sprocket, 60B14 x 1.25" Bore	1			
13	90-35-0007	Motor, Hyd 2000-Series (104-1002-006)	1			
14	90-38-0029	Adapter, Straight, 10 MO x 10 MJ	2			
15	90-44-0021	Decal, Danger Missing Guard (2 x 3.5)	1			
16	90-44-0167	DECAL, ROTATING PARTS HAZARD DECAL	1			
17	90-17-0012	Key, Square 1/4 x 2	1			

- 1. * The items indicated are shown for reference only, and must be assembled during final assembly.
- 2. ** The assemblies indicated are for illustrative purposes only and are not intended to be assembled in this sequence.

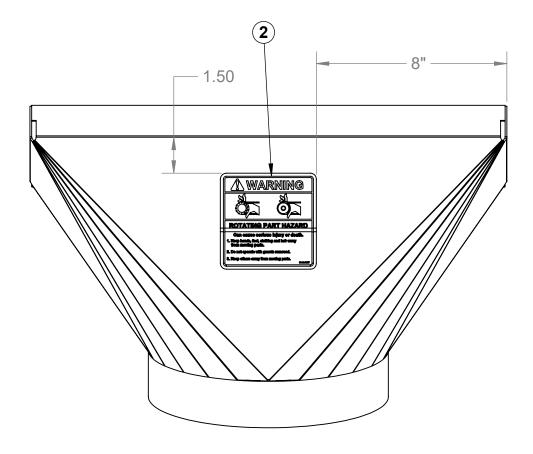


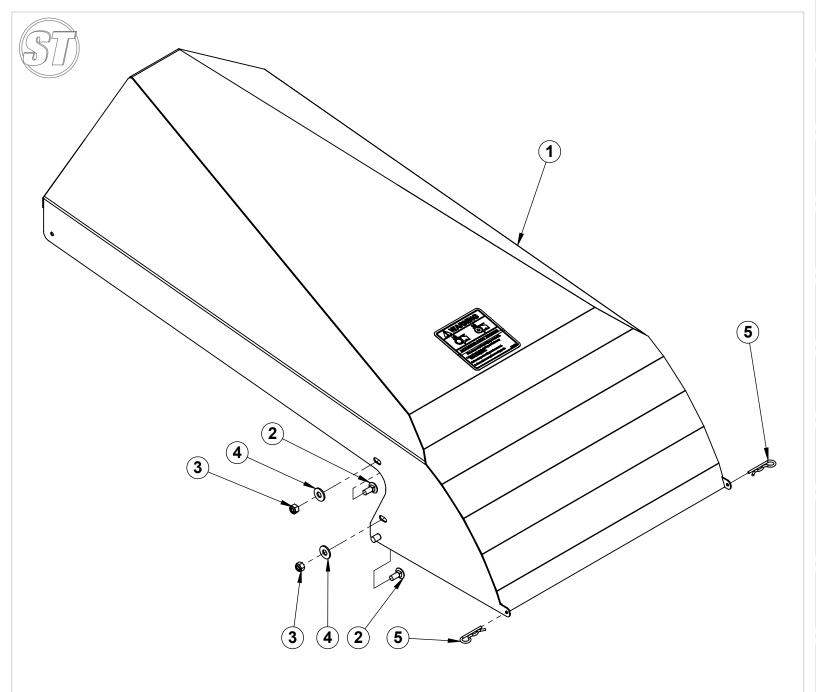




40-2-	40-2-00360 Assy, Discharge Spout - Removable					
ITEM	PART NUMBER	DESCRIPTION	QTY.	TORQUE (ft-lbs)		
1	20-3-00105-SS	WELDMENT, SPOUT TRANS 18-10	1			
2	90-44-0167	DECAL, ROTATING PARTS HAZARD DECAL	1			

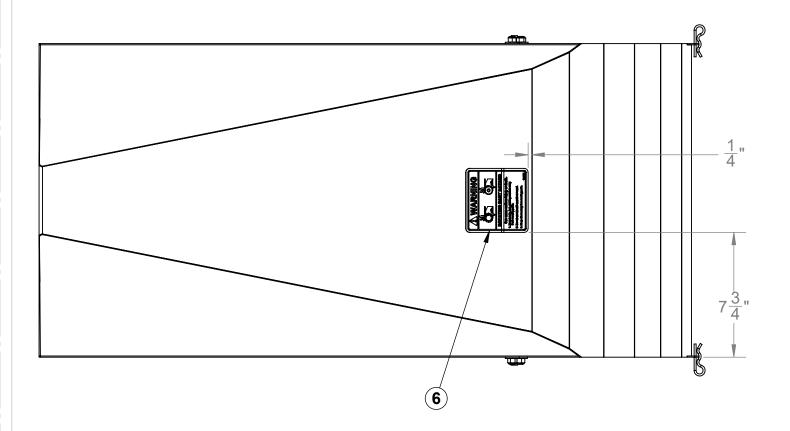
- 1. * The items indicated are shown for reference only, and must be assembled during final assembly.
- 2. ** The assemblies indicated are for illustrative purposes only and are not intended to be assembled in this sequence.



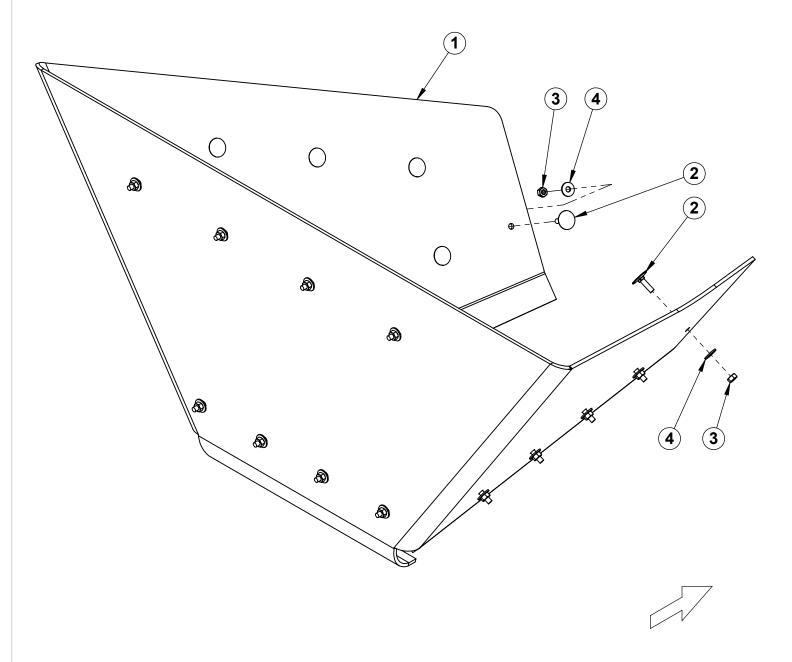


40-2-	40-2-00359 Assy, Swing Conveyor 18" Discharge Hood				
ITEM	PART NUMBER	DESCRIPTION	QTY.	TORQUE (ft-lbs)	
1	20-3-00101-SS	WELDMENT, 18IN DISCHARGE HOOD	1		
2	90-10-7071	Bolt, Carriage 5/16-18 x 3/4 Gr5 ZP	4		
3	90-13-2569	Nut, Nylock 5/16-18 Gr5 ZP	4		
4	90-14-0037	Washer, Flat 5/16 ZP (USS)	4		
5	90-16-1055	Pin, Hair 1/8 x 2 ZP (1/2 - 3/4 Pin Dia)	2		
6	90-44-0167	DECAL, ROTATING PARTS HAZARD DECAL	1		

- 1. * The items indicated are shown for reference only, and must be assembled during final assembly.
- 2. ** The assemblies indicated are for illustrative purposes only and are not intended to be assembled in this sequence.

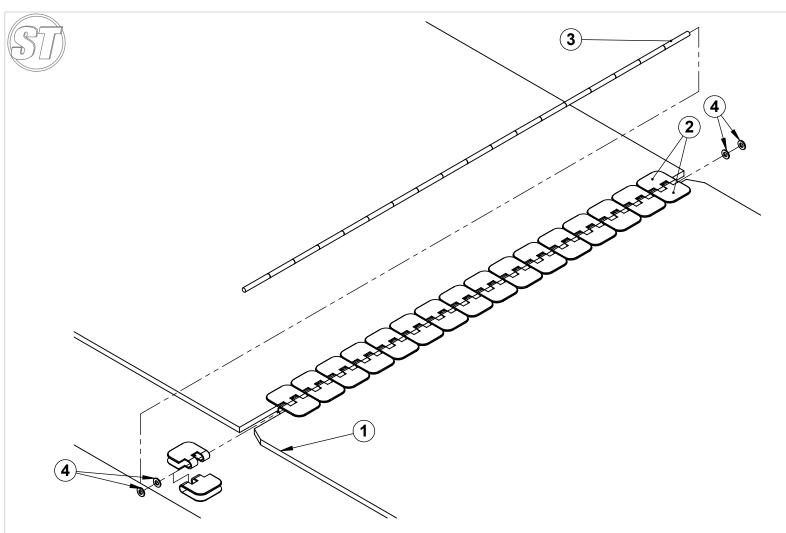




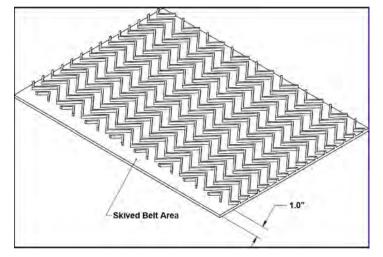


40-2-0	40-2-00356 Assy, Swing Conveyor Rubber Intake Hopper				
ITEM	PART NUMBER	DESCRIPTION	QTY.	TORQUE (ft-lbs)	
1	20-4-01179	HOPPER, DISCHARGE CONVEYOR 12IN - OVERSIZED	1		
2	90-10-9502	Bolt, Elevator 1/4 x 1 Gr5 ZP (Full Thread)	22		
3	90-13-0066	HEX NUT, 1/4" GR5-CT-ZP	22		
4	90-14-0033	Washer, Flat 1/4 ZP USS	22		

- 1. * The items indicated are shown for reference only, and must be assembled during final assembly.
- 2. ** The assemblies indicated are for illustrative purposes only and are not intended to be assembled in this sequence.



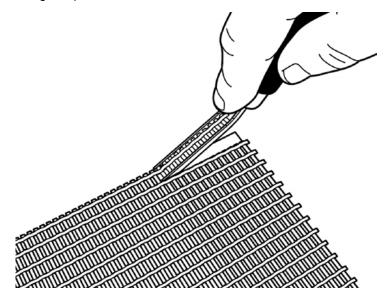
1. Using a square and sharp knife, cut the lacing off right behind the lacing clips. The cut belt MUST have a square end.



IMPORTANT

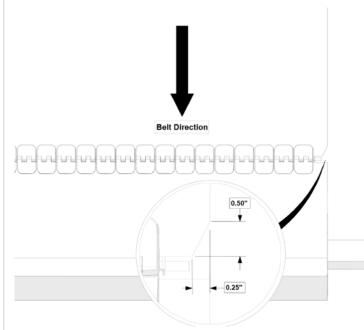
If the belt is not cut off truly square, improper belt tracking will occur and serious belt damage can result. Always use a large T-square or equivalent method to make sure that belt ends are cut square at the lacing ends.

2. If you are installing a crescent top belt be sure to remove approximately 1.0" of the raised belt crescents on both ends of the belt. This ensures that the lacing is centered and fully seated on the belt. Belts can be skived with a Flexco® brand Rough Top Belt Skiver.

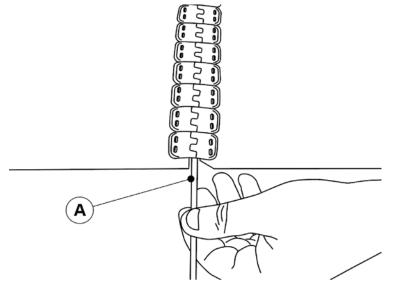


40-2-0	00357 Assy, Belt S	wing Conveyor 18"x59'-6"	
ITEM	PART NUMBER	DESCRIPTION	QTY.
1	90-48-0006	Belting, 18" Wide 150 PIW Chevron Top (Per Foot)	59.5
2	90-48-0018	Belt Lacing, Stainless Steel	34
3	90-48-0019	Cable, 9/64" Nylon Covered Stainless Steel	18
4	90-48-0020	Washer, Belt lacing Retainer Stainless Steel	4

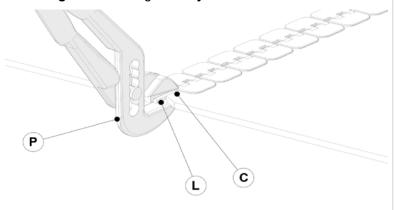
- 3. Use a lacing tool to install new lacing clips. Center the lacing on the belt and install the lacing as per instructions that came with the lacing. The instructions will vary from manufacturer to manufacturer.
- 4. Notch the conveyor belt as necessary in order to keep belt from catching the conveyor framework. Notch only the trailing end of the conveyor belt.



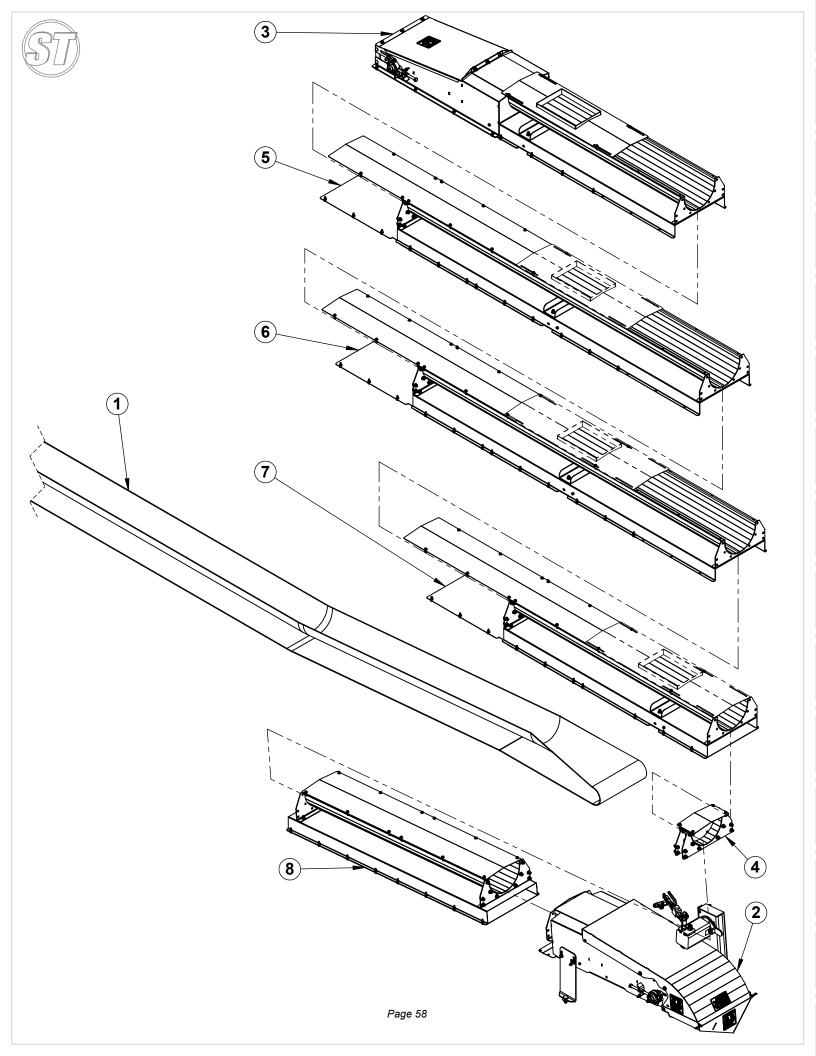
- 5. Reattach the conveyor belt ends together. If required, use a ratchet strap clamped to both ends of the belt to cinch the belting ends together.
- 6. Install the lacing pin and bend the ends of the lacing pin away from belt travel direction.



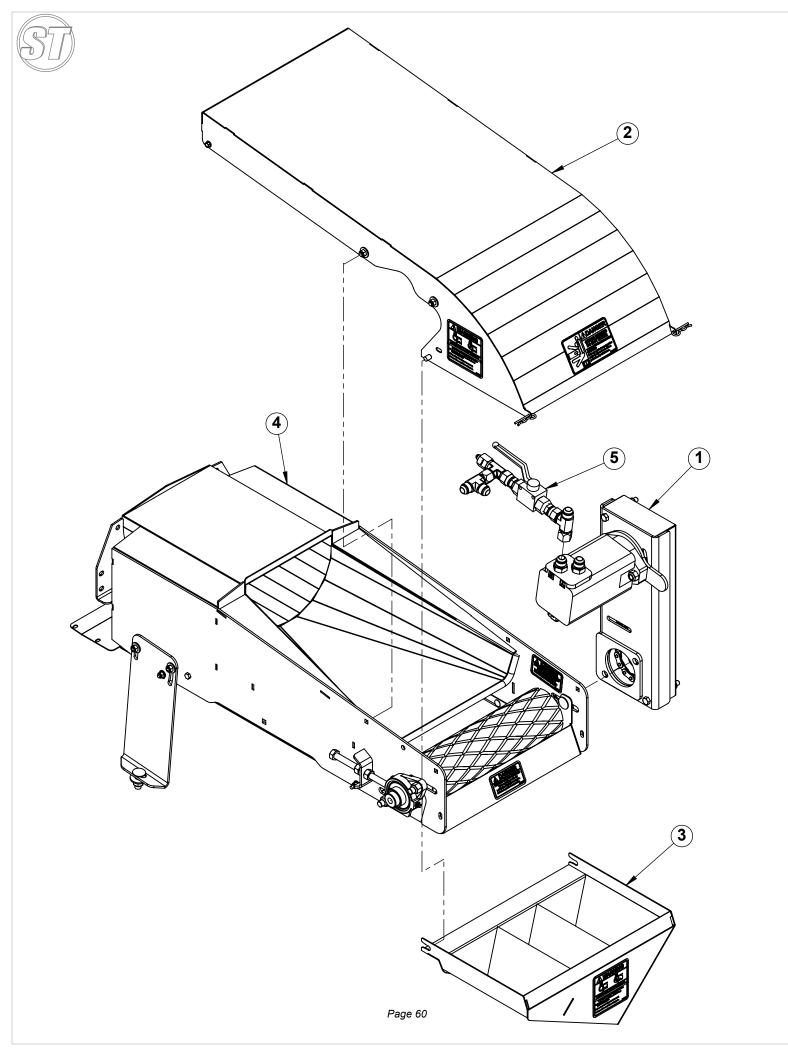
7. Crimp the "Retainer clips" C onto each end of the "Lacing Pin" L using an "Adjustable Pliers" P.



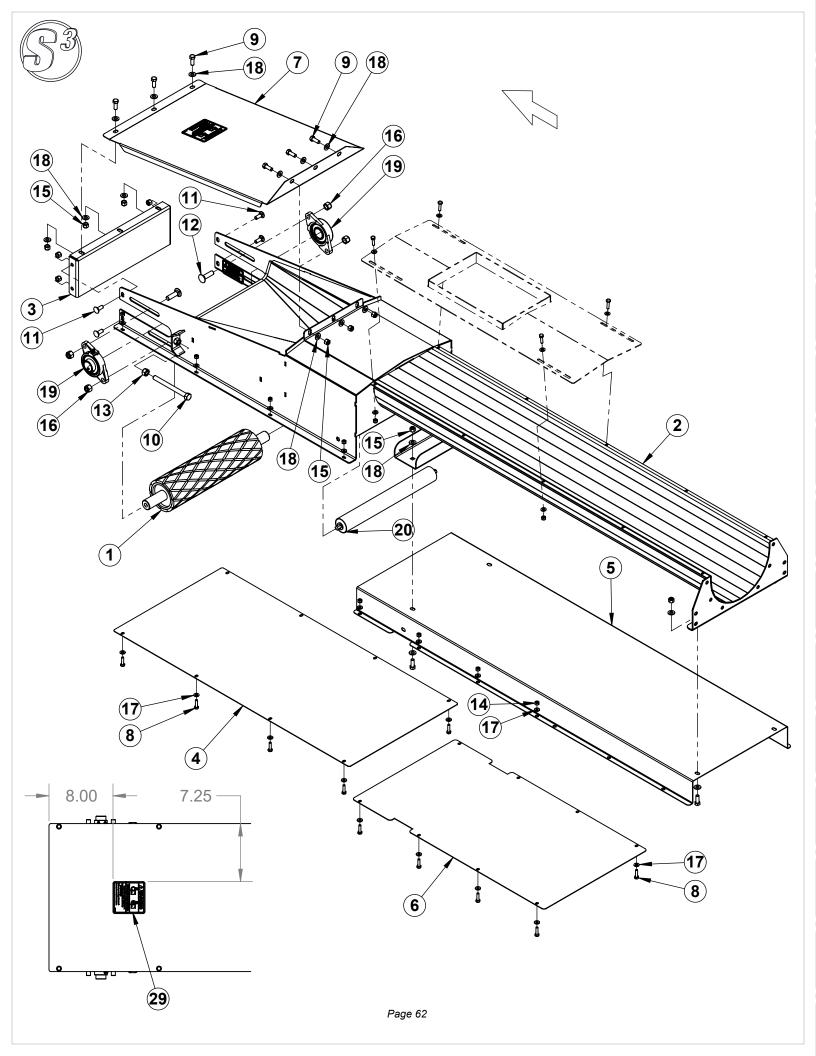
- 9. Remove the ratchet strap and set the correct tension for the conveyor belt. (See"Conveyor Belt Tension" In the Operator's Manual)
- 10. Check and set the belt alignment. (See"Conveyor Belt Alignment" In the Operator's Manual)
- 11. Engage the conveyor belt. Allow the conveyor to run for 30 seconds, then shut down the conveyor and inspect the lacing.



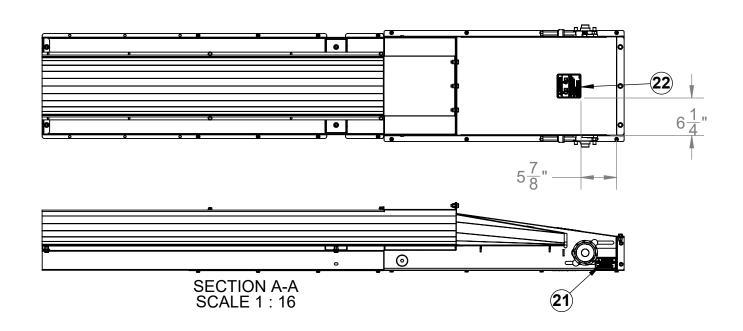
20-2-	20-2-00112 ASSEMBLY, ST 933 UNDERBIN CONVEYOR - 34FT BRIDGE				
ITEM	PART NUMBER	DESCRIPTION	QTY.		
1	20-2-00149	ASSEMBLY, BELT FOR 15 X 933 UNDERBIN - STAINLESS	1		
2	20-2-00151	ASSEMBLY, ST UNDERBIN CONVEYOR - HEAD	1		
3	20-2-00160	ASSY, UT INTAKE SECTION	1		
4	20-2-00163	Assy, Bend Transition 5 DEG	1		
5	20-2-00164	Assy, ST Underbin Conv Mid-Section A	1		
6	20-2-00165	Assy, ST Underbin Conv Mid-Section B	1		
7	20-2-00166	Assy, ST Underbin Conv Mid-Section C	1		
8	20-2-00167	Assy, ST Underbin Conv Mid-Section D	1		



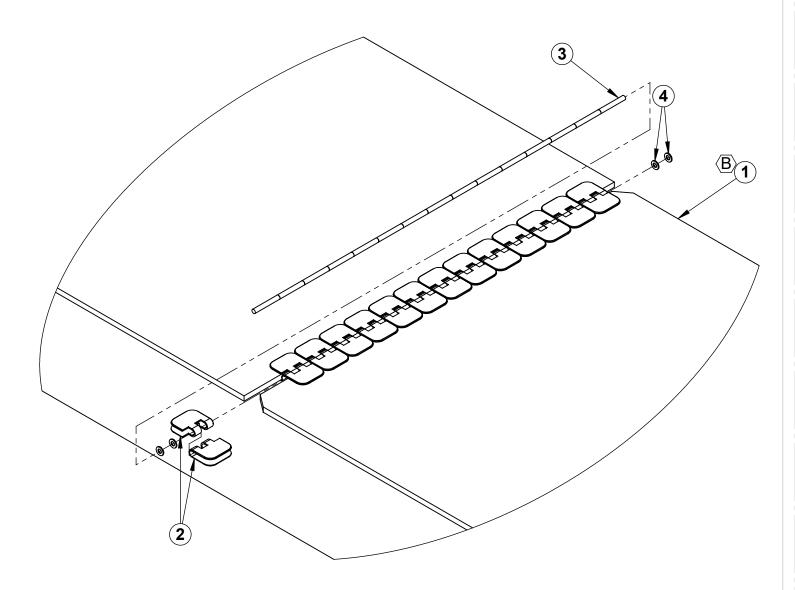
20-2-00151 ASSEMBLY, ST UNDERBIN CONVEYOR - HEAD					
ITEM	PART NUMBER	DESCRIPTION	QTY.	TORQUE (ft-lbs)	
1	20-2-00152	ASSY, S3 UNDERBIN CONVEYOR HYD DRIVE	1		
2	20-2-00153	ASSY, UT DISCHARGE - REMOVABLE	1		
3	20-2-00154	ASSY, UT DISCHARGE SPOUT - REMOVABLE	1		
4	20-2-00155	ASSY, UT DISCHARGE	1		
5	40-2-00236	ASSEMBLY, UB MOTOR ADAPTERS	1		



20-2-00160 ASSY, UT INTAKE SECTION			
ITEM	PART NUMBER	DESCRIPTION	QTY.
1	20-3-00024-SS	WELDMENT, PULLEY 3.50X15 - 1.25X20 SHAFT (S/S)	1
2	20-3-00059-SS	WELDMENT, U-TROUGH TAIL W/BOT COVER (S/S)	1
3	20-4-00296-SS	PLATE, TAIL END CAP	1
4	20-4-00297-SS	SHEET, TAIL BOTTOM	1
5	20-4-00937	SHEET, U-TROUGH RETURN TAIL (S/S)	1
6	20-4-00940	SHEET, U-TROUGH TAIL BOTTOM COVER (S/S)	1
7	20-4-00942	SHEET, CONVEYOR TAIL COVER (S/S)	1
8	90-10-0025-SS	Bolt, Hex 1/4-20 x 1 18-8 (S/S)	20
9	90-10-0769-SS	Bolt, Hex 3/8-16 x 1 18-8 (S/S)	10
10	90-10-1743	Bolt, Hex 1/2-13 x 5 1/2 Gr5 ZP (Full)	2
11	90-10-7139-SS	Bolt, Carriage 3/8-16 x 1 18-8 (S/S)	4
12	90-10-7249-SS	Bolt, Carriage 1/2-13 x 1 3/4 18-8 (S/S)	4
13	90-13-0146	Nut, Hex 1/2-13 Gr5 ZP	2
14	90-13-2561-SS	Nut, Nylock 1/4-20 18-8 (S/S)	20
15	90-13-2577-SS	Nut, Nylock 3/8-16 18-8 (S/S)	14
16	90-13-2593-SS	Nut, Nylock 1/2-13 18-8 (S/S)	4
17	90-14-0035-SS	Washer, Flat 1/4 ZP (SAE) (S/S)	40
18	90-14-0043-SS	Washer, Flat 3/8 (SAE) (S/S)	20
19	90-24-0032	Bearing, 1.25", 2-Bolt Flange Stainless Steel	2
20	90-30-2008	Roller, 1.9" OD x 15.875" BF x 7/16" Hex Stainless Steel	1
21	90-44-0021	Decal, Danger Missing Guard (2 x 3.5)	2
22	90-44-0167	DECAL, ROTATING PARTS HAZARD DECAL	2





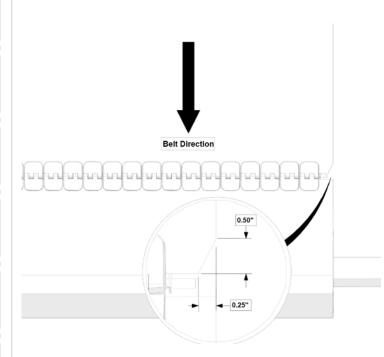


IMPORTANT

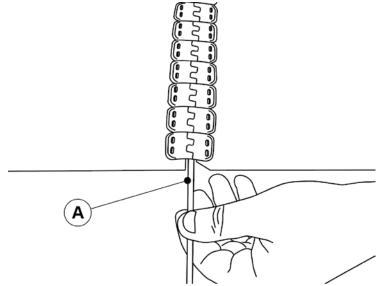
If the belt is not cut off truly square, improper belt tracking will occur and serious belt damage can result. Always use a large T-square or equivalent method to make sure that belt ends are cut square at the lacing ends.

	20-2-00149 ASSEMBLY, SMOOTH TOP BELT 15" X 76' - 0"				
	ITEM	PART NUMBER	DESCRIPTION	QTY.	
\rangle [1	90-48-0004	Belting, 15" Wide 150 PIW Smooth Top (Per Foot)	76	
	2	90-48-0018	Belt Lacing, Stainless Steel	28	
	3	90-48-0019	Cable, 9/64" Nylon Covered Stainless Steel	15	
	4	90-48-0020	Washer, Belt lacing Retainer Stainless Steel	4	

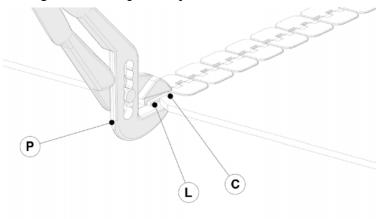
- 1. Use a lacing tool to install new lacing clips. Center the lacing on the belt and install the lacing as per instructions that came with the lacing. The instructions will vary from manufacturer to manufacturer.
- 2. Notch the conveyor belt as necessary in order to keep belt from catching the conveyor framework. Notch only the trailing end of the conveyor belt.



- 3. Reattach the conveyor belt ends together. If required, use a ratchet strap clamped to both ends of the belt to cinch the belting ends together.
- 4. Install the lacing pin and bend the ends of the lacing pin away from belt travel direction.

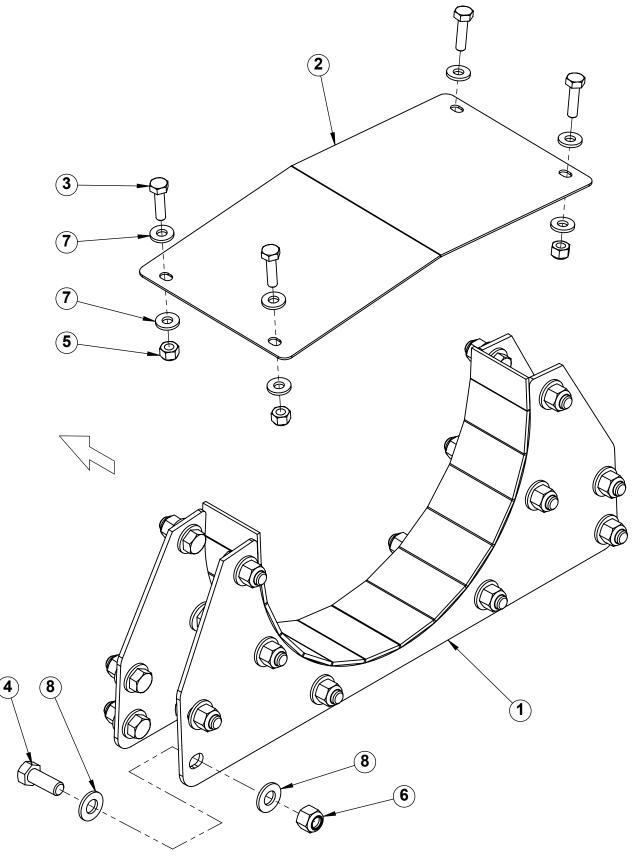


5. Crimp the "Retainer clips" C onto each end of the "Lacing Pin" L using an "Adjustable Pliers" P.



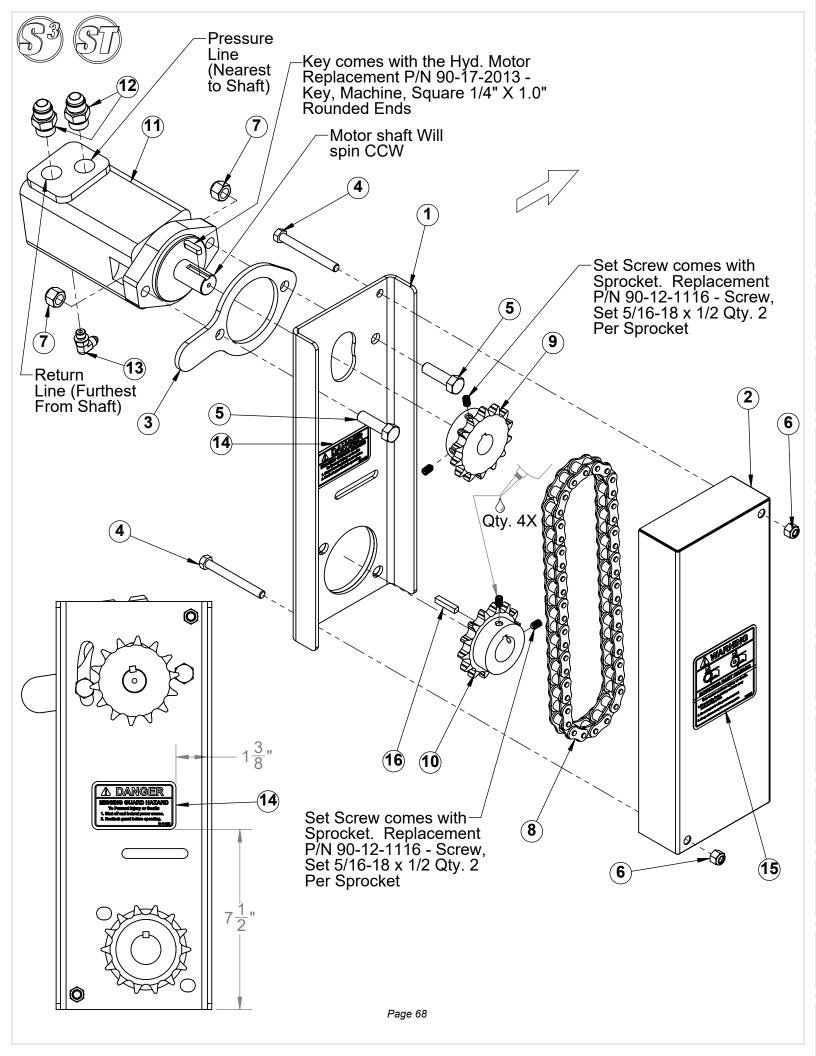
- 6. Remove the ratchet strap and set the correct tension for the conveyor belt. (See"Conveyor Belt Tension" In the Operator's Manual)
- 7. Check and set the belt alignment. (See"Conveyor Belt Alignment" In the Operator's Manual)
- 8. Engage the conveyor belt. Allow the conveyor to run for 30 seconds, then shut down the conveyor and inspect the lacing.





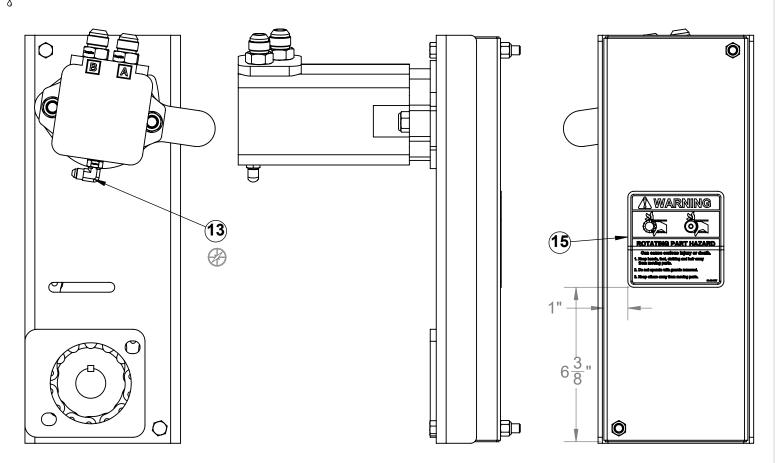
20-2-00163 Assy, Bend Transition 5 DEG				
ITEM	PART NUMBER	DESCRIPTION	QTY.	TORQUE (ft-lbs)
1	20-3-00244	WELDMENT, 5 DEG BEND TRANSITION	1	
2	20-4-01149	SHEET, TRANSITION CAP	1	
3	90-10-0025-SS	Bolt, Hex 1/4-20 x 1 18-8 (S/S)	4	
4	90-10-0769-SS	Bolt, Hex 3/8-16 x 1 18-8 (S/S)	20	
5	90-13-2561-SS	Nut, Nylock 1/4-20 18-8 (S/S)	4	
6	90-13-2577-SS	Nut, Nylock 3/8-16 18-8 (S/S)	20	
7	90-14-0035-SS	Washer, Flat 1/4 ZP (SAE) (S/S)	8	
8	90-14-0043-SS	Washer, Flat 3/8 (SAE) (S/S)	40	

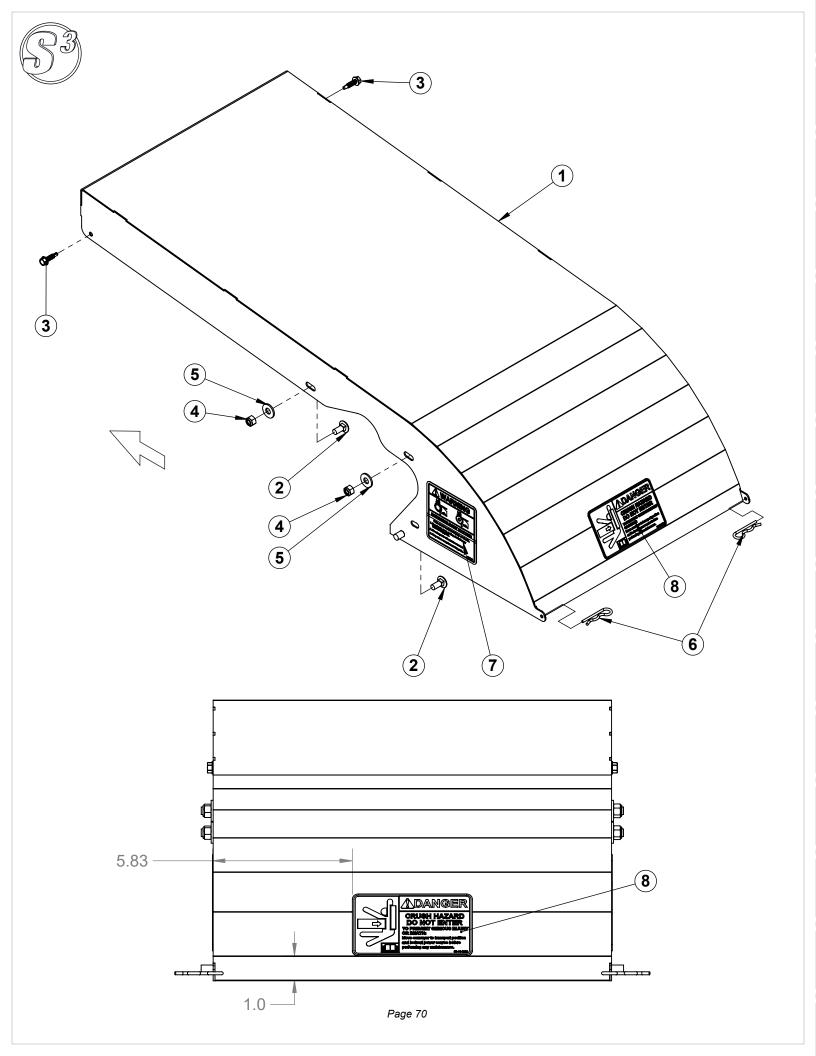
- * The items indicated are shown for reference only, and must be assembled during final assembly.
 ** The assemblies indicated are for illustrative purposes only and are not intended to be assembled in this sequence.



20-2-00152 ASSY, S3 UNDERBIN CONVEYOR HYD DRIVE					
ITEM	PART NUMBER	DESCRIPTION	QTY.	TORQUE (ft-lbs)	
1	20-3-00325	WELDMENT, CONVEYOR DRIVE MOUNT	1	, ,	
2	20-3-00326	WELDMENT, DRIVE GUARD - SS	1		
3	20-4-01453	BRACKET, CONVEYOR DRIVE TENSIONER - SS	1		
4	90-10-0877-SS	HEX BOLT, 3/8 X 3.5 GR5-CT-ZP	2		
5	90-10-1613-SS	Bolt, Hex 1/2-13 x 1 3/4 SS	2		
6	90-13-2577-SS	Nut, Nylock 3/8-16 18-8 (S/S)	2		
7	90-13-2593-SS	Nut, Nylock 1/2-13 18-8 (S/S)	2		
8	90-27-0004	Chain, #60 x 44 Pitches w/ Conn Link	1		
9	90-29-0015	Sprocket, 60B14 x 1.00" Bore	1		
10	90-29-0016	Sprocket, 60B14 x 1.25" Bore	1		
11	90-35-0005	Motor, Hyd 2000-Series (104-1003-006)	1		
12	90-38-0029	Adapter, Straight, 10 MO x 10 MJ	2		
13	90-38-0034	Adapter, 90° Elbow, 04 MJ x 04 MO	1		
14	90-44-0021	Decal, Danger Missing Guard (2 x 3.5)	1		
15	90-44-0167	DECAL, ROTATING PARTS HAZARD DECAL	1		
16	90-17-0012	Key, Square 1/4" x 1 1/4"	1		

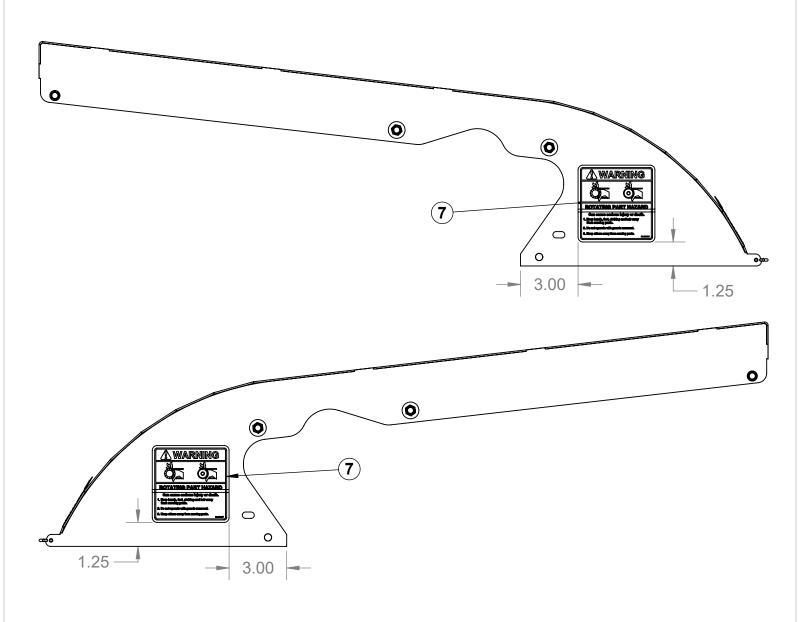
- 1. * The items indicated are shown for reference only, and must be assembled during final assembly.
- 2. Orientate part as shown.
- 3. Apply Threadlocker Loctite 242 or Equivalent



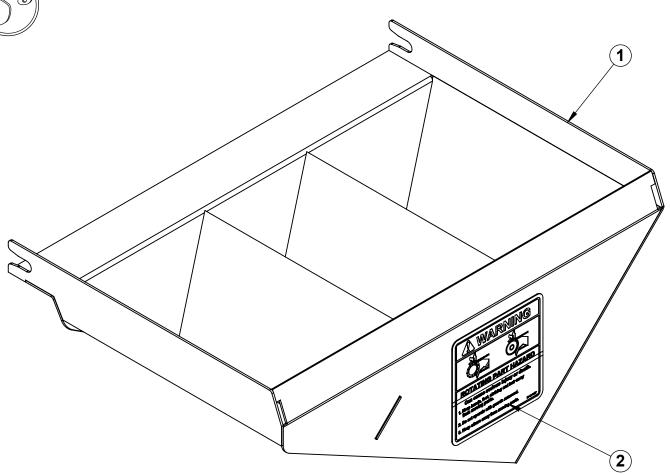


20-2-00153 ASSY, UT DISCHARGE - REMOVABLE				
ITEM	PART NUMBER	DESCRIPTION	QTY.	TORQUE (ft-lbs)
1	20-3-00092-SS	WELDMENT, UT DISCHARGE - REMOVABLE	1	
2	90-10-7071-SS	Bolt, Carriage 5/16-18 x 3/4 18-8 (S/S)	4	
3	90-12-5366	Screw, Self Drilling, Hex Head 1/4-14 x 1	2	
4	90-13-2569-SS	Nut, Nylock 5/16-18 18-8 (S/S)	4	
5	90-14-0037-SS	FLAT WASHER, 5/16 ZP	4	
6	90-16-1049	Pin, Hair 1/8 x 2 3/8 ZP (1/2 - 5/8 Pin Dia)	2	
7	90-44-0167	DECAL, ROTATING PARTS HAZARD DECAL	2	
8	90-44-0283	Decal, Crush Hazard Do Not Enter	1	

- 1. * The items indicated are shown for reference only, and must be assembled during final assembly.
- 2. ** The assemblies indicated are for illustrative purposes only and are not intended to be assembled in this sequence.



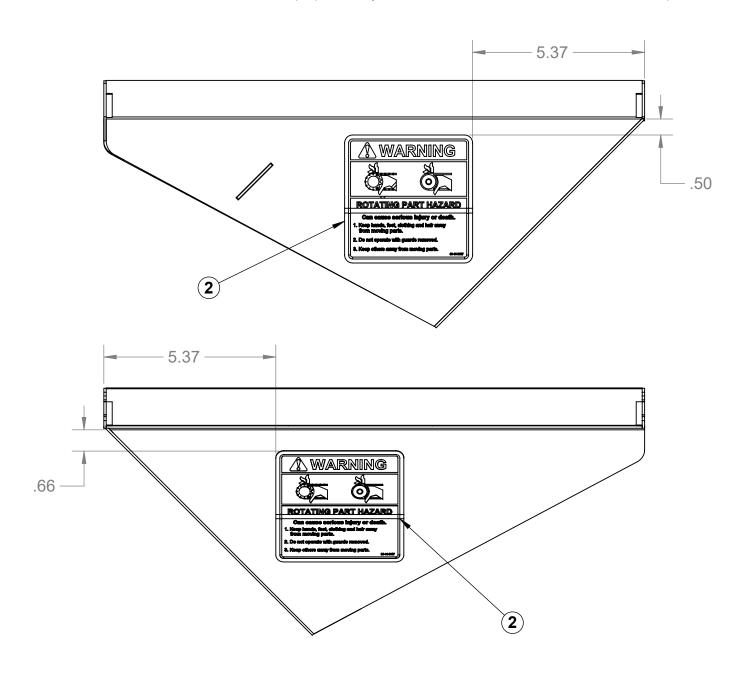


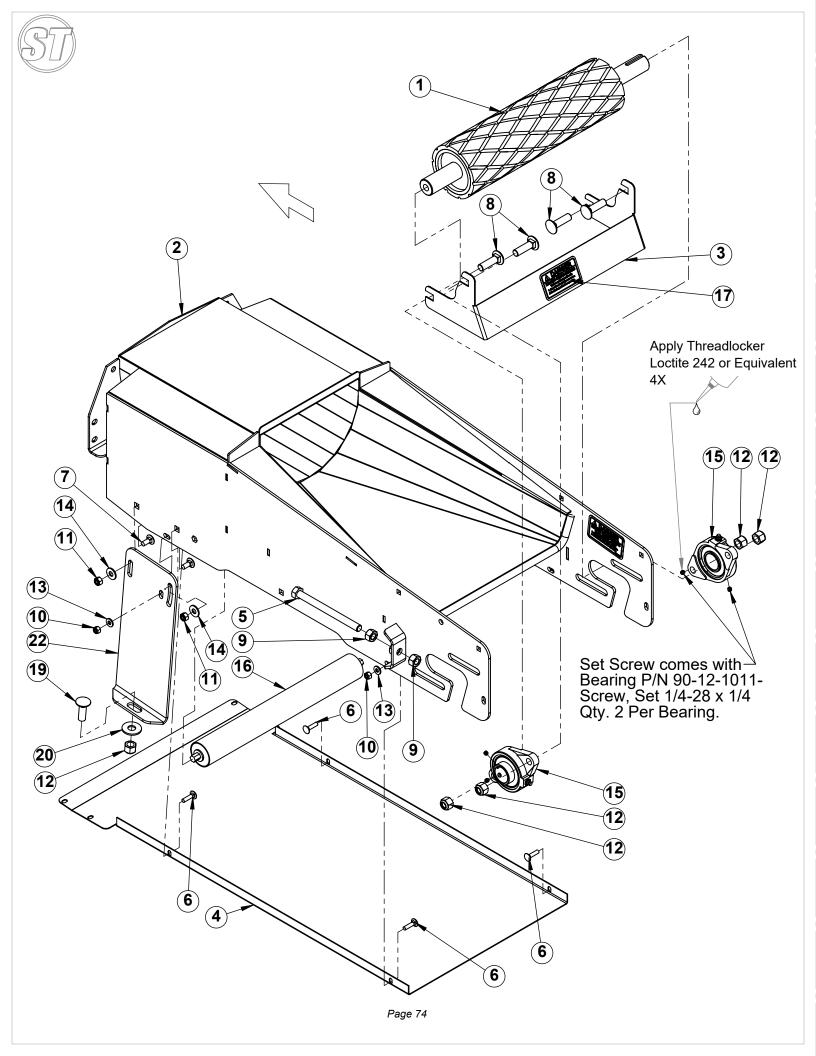




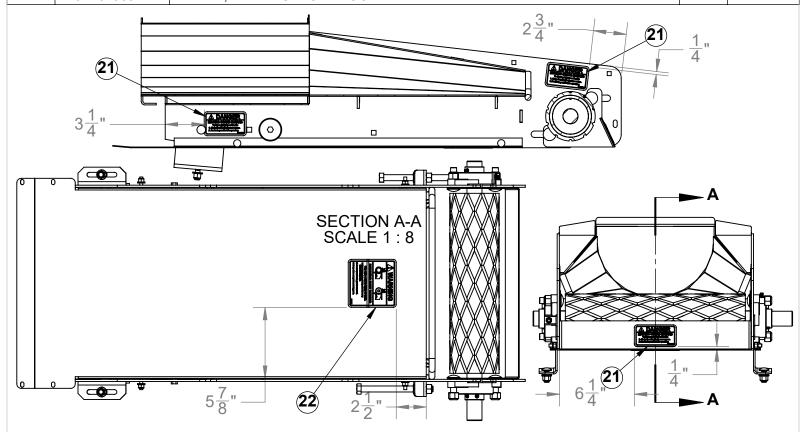
20-2-	00154 ASSY, UT D	DISCHARGE SPOUT - REMOVABLE		
ITEM	PART NUMBER	DESCRIPTION	QTY.	TORQUE (ft-lbs)
1	20-3-00091-SS	WELDMENT, UT DISCHARGE SPOUT - REMOVABLE	1	
2	90-44-0167	DECAL, ROTATING PARTS HAZARD DECAL	2	

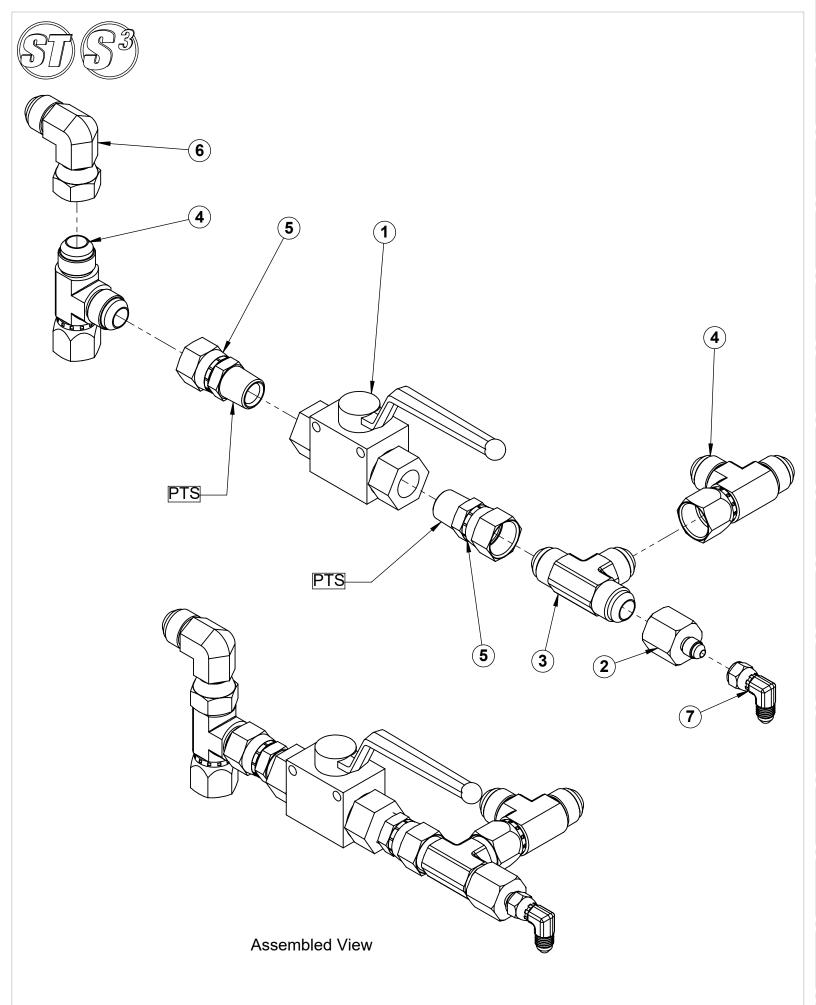
- 1. * The items indicated are shown for reference only, and must be assembled during final assembly.
- 2. ** The assemblies indicated are for illustrative purposes only and are not intended to be assembled in this sequence.





20-2-	00155 ASSY, UT D	DISCHARGE		
ITEM	PART NUMBER	DESCRIPTION	QTY.	TORQUE (ft-lbs)
1	20-3-00026-SS	WELDMENT, PULLEY 3.50X15 DRIVE (S/S)	1	, ,
2	20-3-00060-SS	WELDMENT, U-TROUGH HEAD W/BOT COVER (S/S)	1	
3	20-4-00242-SS	BRACKET, DEFLECTOR PLATE	1	
4	20-4-01109	SHEET, UT HEAD BOTTOM COVER - 5 DEG BEND	1	
5	90-10-1758	HEX BOLT, 1/2 X 6.0 FULLTHRD GR5-CT-ZP	2	
6	90-10-7009-SS	Bolt, Carriage 1/4-20 x 1 18-8 (S/S)	4	
7	90-10-7071-SS	Bolt, Carriage 5/16-18 x 3/4 18-8 (S/S)	4	
8	90-10-7249-SS	Bolt, Carriage 1/2-13 x 1 3/4 18-8 (S/S)	4	
9	90-13-0146-SS	HEX NUT, 1/2" GR5-CT-ZP	4	
10	90-13-2561-SS	Nut, Nylock 1/4-20 18-8 (S/S)	4	
11	90-13-2569-SS	Nut, Nylock 5/16-18 18-8 (S/S)	4	
12	90-13-2593-SS	Nut, Nylock 1/2-13 18-8 (S/S)	6	
13	90-14-0035-SS	Washer, Flat 1/4 ZP (SAE) (S/S)	4	
14	90-14-0037-SS	FLAT WASHER, 5/16 ZP	4	
15	90-24-0032	Bearing, 1.25", 2-Bolt Flange Stainless Steel	2	
16	90-30-2008	Roller, 1.9" OD x 15.875" BF x 7/16" Hex Stainless Steel	1	
17	90-44-0021	Decal, Danger Missing Guard (2 x 3.5)	5	
18	90-44-0167	DECAL, ROTATING PARTS HAZARD DECAL	1	
19	90-10-7247-SS	Bolt, Carriage 1/2-13 x 1 1/2 18-8 (S/S)	2	
20	90-14-0049-SS	Washer, Flat 1/2 SS	2	
21	40-4-01958	PLATE, HEAD SUPPORT FOOT - PASSENGER	1	
22	40-4-01959	PLATE, HEAD SUPPORT FOOT - DRIVER	1	

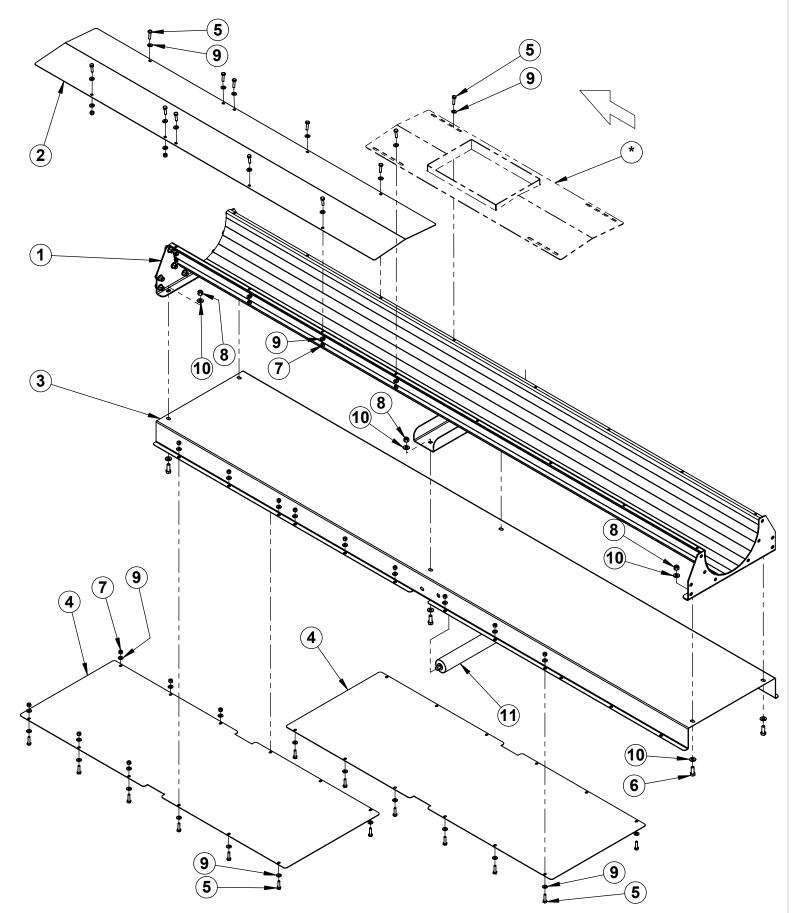




40-2-0	40-2-00236 ASSEMBLY, UB MOTOR ADAPTERS					
ITEM	PART NUMBER	DESCRIPTION	QTY.	TORQUE (ft-lbs)		
1	90-36-0041	Valve, Ball, 08 FP x 08FP High Pressure	1			
2	90-38-0035	Adapter, Straight, 10 FJ x 04 MJ	1			
3	90-38-0045	Adapter, Tee, 10 MJ x 10 MJ x 10 MJ	1			
4	90-38-0060	Adapter, Tee, 10 FJX x 10 MJ x 10 MJ	2			
5	90-38-0248	Adapter, Straight, 08 MP x 10 FPX	2			
6	AD-10MJ-10FJX-90	Adapter, 10MJ-10FJX 90	1			
7	90-38-0385	Adapter, 90° Elbow, 04 MJ x 04 FJX	1			

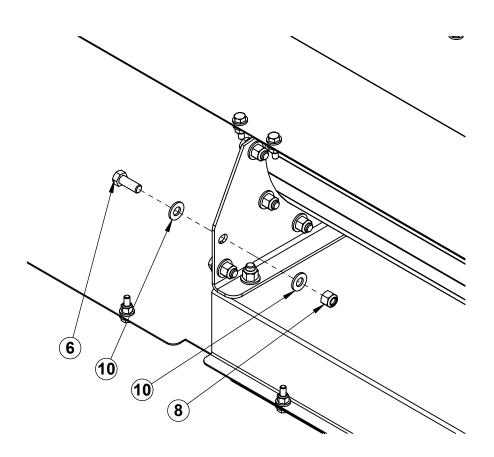
Note:
1. PTS= Apply Pipe Thread Sealant, use Rectorseal # 21 or equivalent.

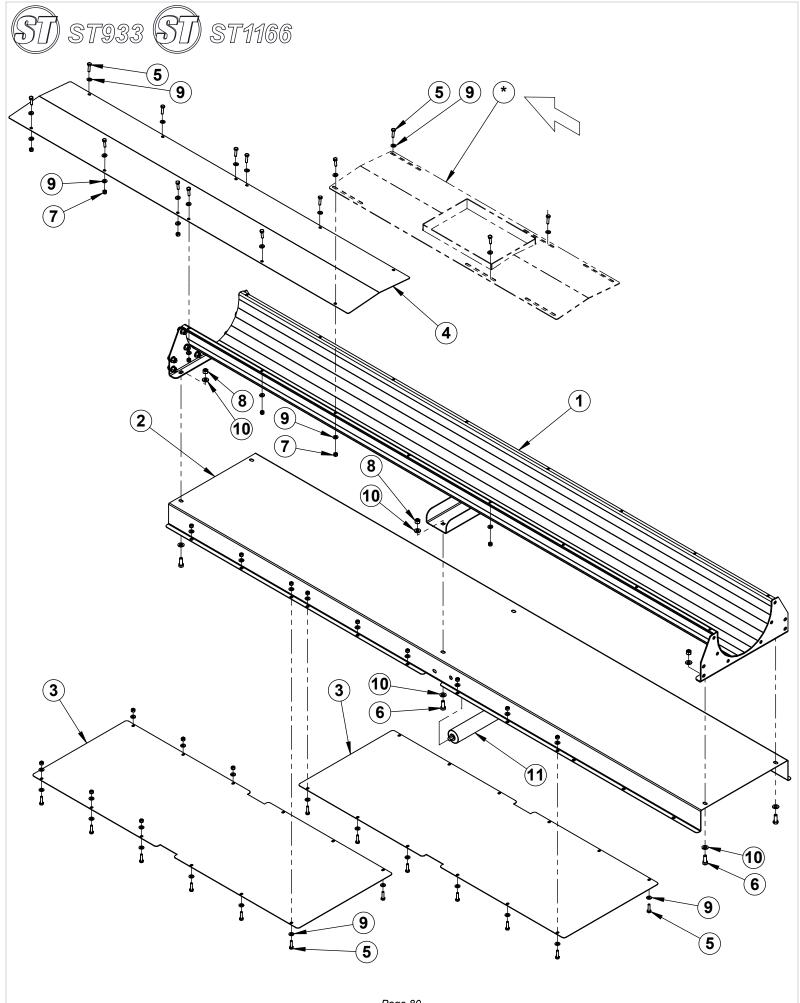
ST) ST933 ST) ST1166



20-2-	00164 Assy, ST Ur	nderbin Conv Mid-Section A		
ITEM	PART NUMBER	DESCRIPTION	QTY.	TORQUE (ft-lbs)
1	20-3-00198	WELDMENT, U-TROUGH 10 X 98 W/BOT COVER (S/S)	1	
2	20-4-00424	SHEET, 10 X 62.63 UT COVER	1	
3	20-4-00936	SHEET, U-TROUGH RETURN (S/S)	1	
4	20-4-00939	SHEET, U-TROUGH LEG BOTTOM COVER (S/S)	2	
5	90-10-0025-SS	Bolt, Hex 1/4-20 x 1 18-8 (S/S)	36	
6	90-10-0769-SS	Bolt, Hex 3/8-16 x 1 18-8 (S/S)	16	
7	90-13-2561-SS	Nut, Nylock 1/4-20 18-8 (S/S)	36	
8	90-13-2577-SS	Nut, Nylock 3/8-16 18-8 (S/S)	16	
9	90-14-0035-SS	Washer, Flat 1/4 ZP (SAE) (S/S)	72	
10	90-14-0043-SS	Washer, Flat 3/8 (SAE) (S/S)	32	
11	90-30-2008	Roller, 1.9" OD x 15.875" BF x 7/16" Hex Stainless Steel	1	

- 1. * The items indicated are shown for reference only, and must be assembled during final assembly.
- 2. ** The assemblies indicated are for illustrative purposes only and are not intended to be assembled in this sequence.

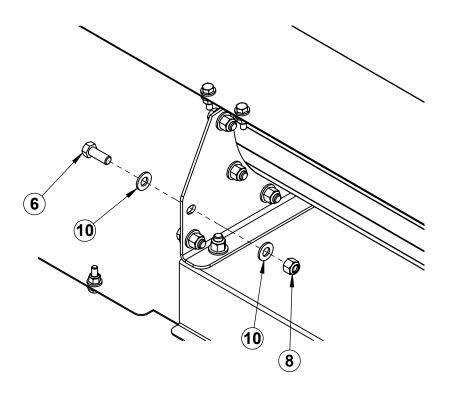


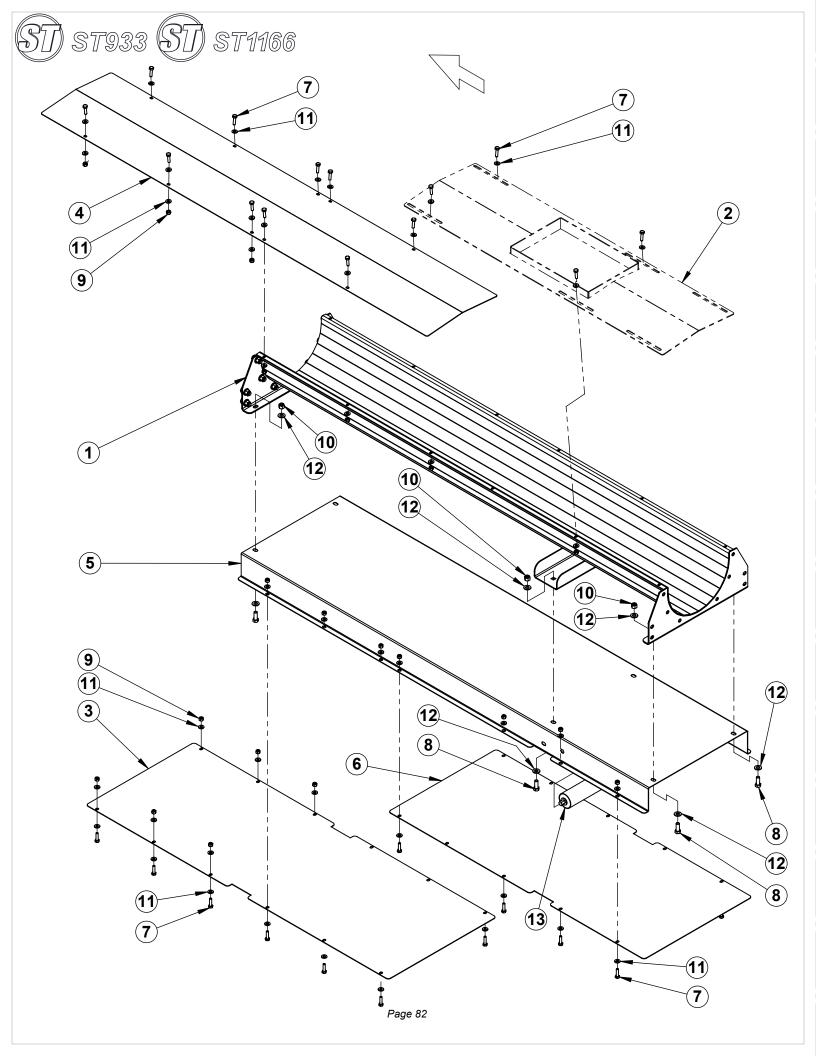


Page 80

20-2-0	20-2-00165 Assy, ST Underbin Conv Mid-Section B				
ITEM	PART NUMBER	DESCRIPTION	QTY.	TORQUE (ft-lbs)	
1	20-3-00198	WELDMENT, U-TROUGH 10 X 98 W/BOT COVER (S/S)	1	,	
2	20-4-00936	SHEET, U-TROUGH RETURN (S/S)	1		
3	20-4-00939	SHEET, U-TROUGH LEG BOTTOM COVER (S/S)	2		
4	20-4-01111	SHEET, 10 X 62.63 UT COVER - 1.56 OFFSET	1		
5	90-10-0025-SS	Bolt, Hex 1/4-20 x 1 18-8 (S/S)	38		
6	90-10-0769-SS	Bolt, Hex 3/8-16 x 1 18-8 (S/S)	16		
7	90-13-2561-SS	Nut, Nylock 1/4-20 18-8 (S/S)	38		
8	90-13-2577-SS	Nut, Nylock 3/8-16 18-8 (S/S)	16		
9	90-14-0035-SS	Washer, Flat 1/4 ZP (SAE) (S/S)	76		
10	90-14-0043-SS	Washer, Flat 3/8 (SAE) (S/S)	32		
11	90-30-2008	Roller, 1.9" OD x 15.875" BF x 7/16" Hex Stainless Steel	1		

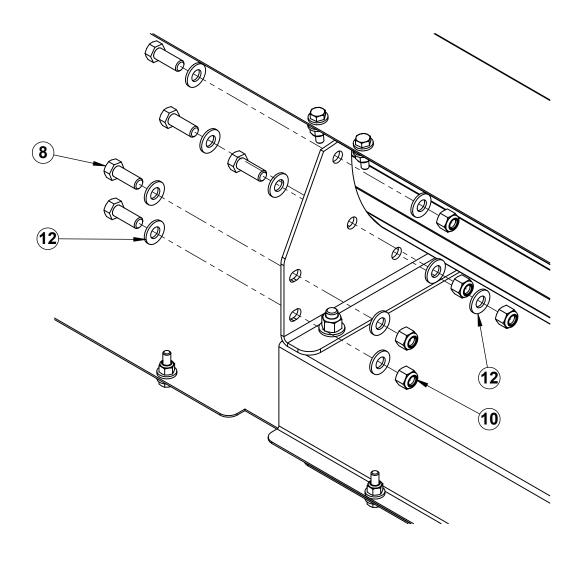
- 1. * The items indicated are shown for reference only, and must be assembled during final assembly.
- 2. ** The assemblies indicated are for illustrative purposes only and are not intended to be assembled in this sequence.

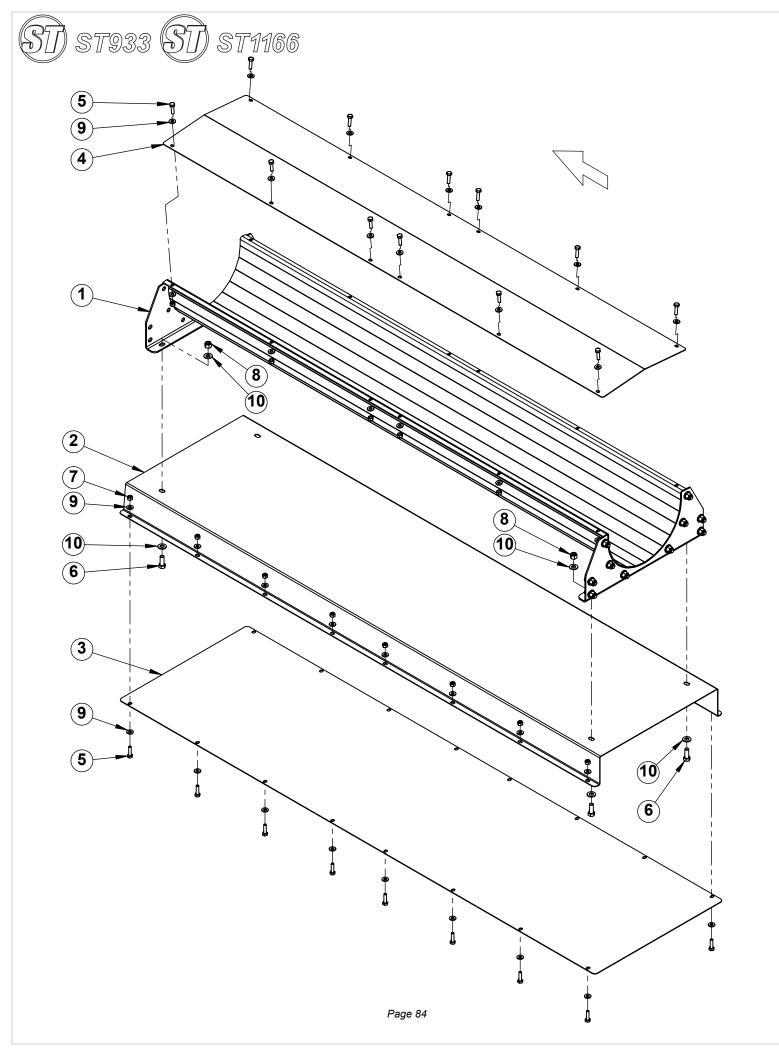




20-2-00166 Assy, ST Underbin Conv Mid-Section C					
ITEM	PART NUMBER	DESCRIPTION	QTY.	TORQUE (ft-lbs)	
1	20-3-00268	WELDMENT, U-TROUGH 10 X 66 INTERMEDIATE W/ BOTTOM COVERS	1		
2	20-3-00298	WELDMENT, INLET COVER - ST 933	1		
3	20-4-00939	SHEET, U-TROUGH LEG BOTTOM COVER (S/S)	1		
4	20-4-01110	SHEET, 10 X 62.63 UT COVER - 4.56 OFFSET	1		
5	20-4-01187	SHEET, U-TROUGH RETURN - MID 66	1		
6	20-4-01189	SHEET, U-TROUGH CUSTOM BOTTOM COVER - 41.44	1		
7	90-10-0025-SS	Bolt, Hex 1/4-20 x 1 18-8 (S/S)	34		
8	90-10-0769-SS	Bolt, Hex 3/8-16 x 1 18-8 (S/S)	16		
9	90-13-2561-SS	Nut, Nylock 1/4-20 18-8 (S/S)	34		
10	90-13-2577-SS	Nut, Nylock 3/8-16 18-8 (S/S)	16		
11	90-14-0035-SS	Washer, Flat 1/4 ZP (SAE) (S/S)	67		
12	90-14-0043-SS	Washer, Flat 3/8 (SAE) (S/S)	32		
13	90-30-2008	Roller, 1.9" OD x 15.875" BF x 7/16" Hex Stainless Steel	1		

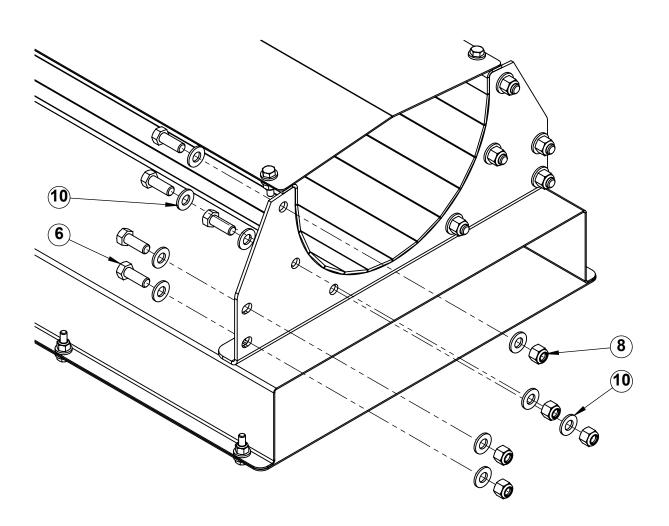
- 1. * The items indicated are shown for reference only, and must be assembled during final assembly.
- 2. ** The assemblies indicated are for illustrative purposes only and are not intended to be assembled in this sequence.

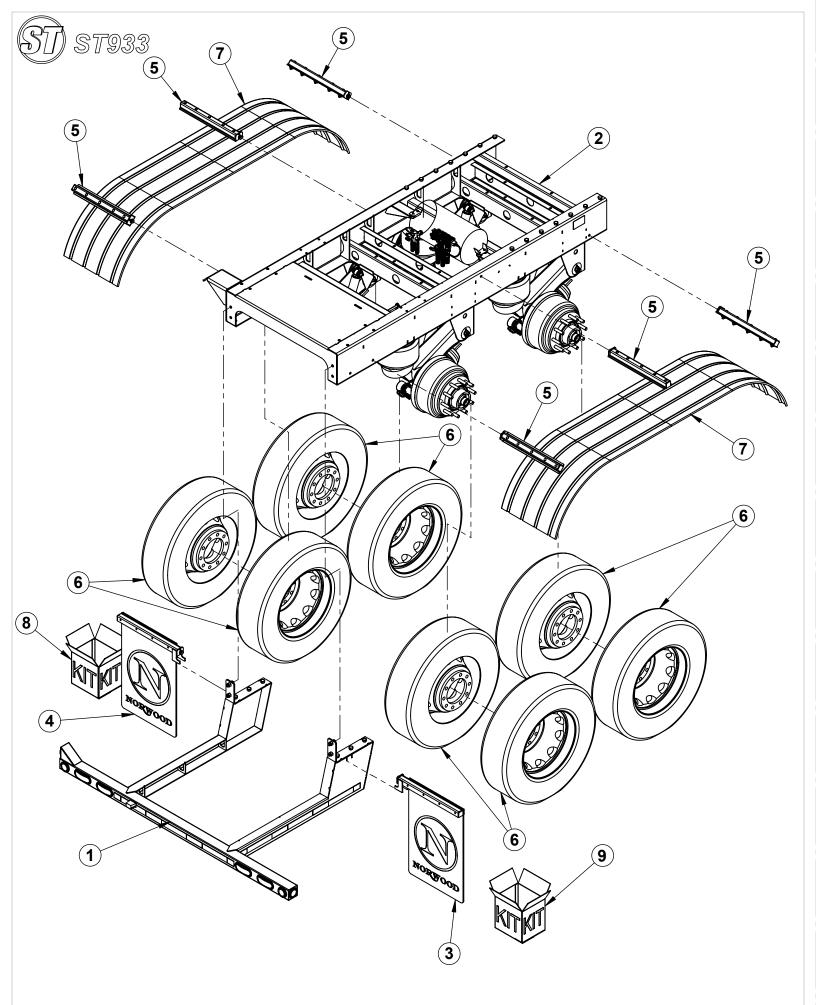




20-2-0	20-2-00167 Assy, ST Underbin Conv Mid-Section D				
ITEM	PART NUMBER	DESCRIPTION	QTY.	TORQUE (ft-lbs)	
1	20-3-00269	WELDMENT, U-TROUGH 10 X 60 INTERMEDIATE	1		
2	20-4-01183	SHEET, BOTTOM RETURN - 5 DEG HEAD	1		
3	20-4-01190	SHEET, BOTTOM COVER - HEAD	1		
4	20-4-01191	SHEET, UT COVER 60	1		
5	90-10-0025-SS	Bolt, Hex 1/4-20 x 1 18-8 (S/S)	28		
6	90-10-0769-SS	Bolt, Hex 3/8-16 x 1 18-8 (S/S)	14		
7	90-13-2561-SS	Nut, Nylock 1/4-20 18-8 (S/S)	28		
8	90-13-2577-SS	Nut, Nylock 3/8-16 18-8 (S/S)	14		
9	90-14-0035-SS	Washer, Flat 1/4 ZP (SAE) (S/S)	56		
10	90-14-0043-SS	Washer, Flat 3/8 (SAE) (S/S)	28		

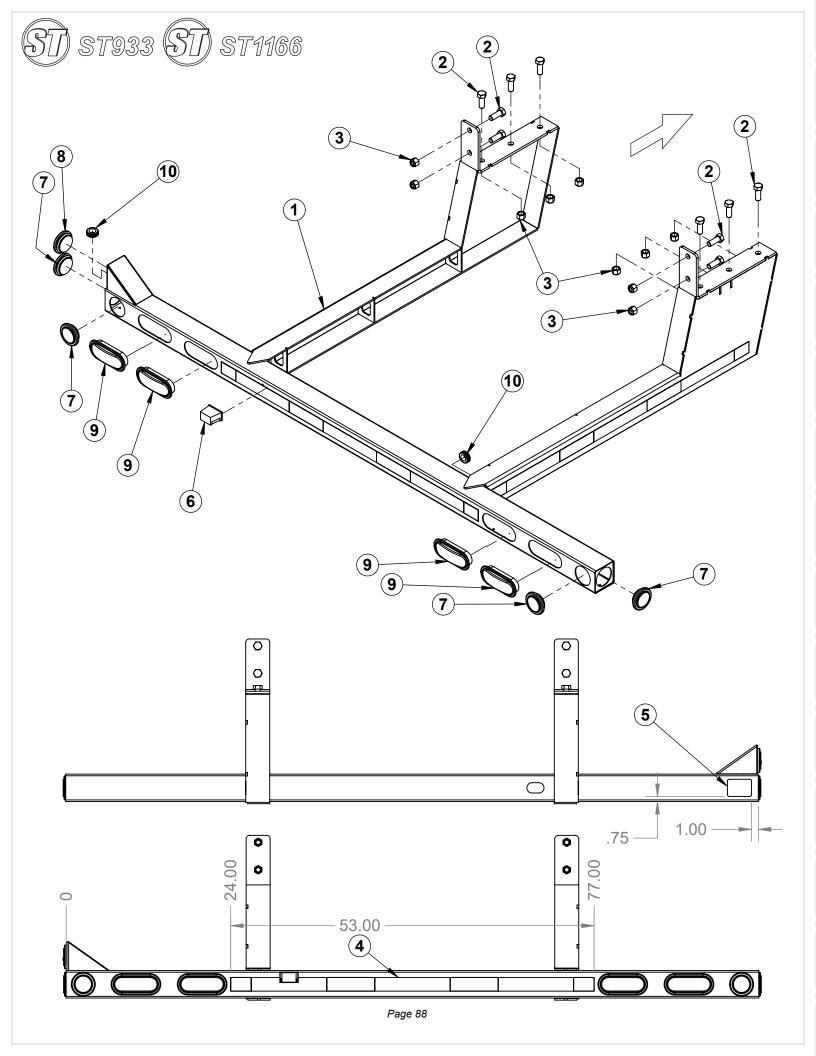
- 1. * The items indicated are shown for reference only, and must be assembled during final assembly.
- 2. ** The assemblies indicated are for illustrative purposes only and are not intended to be assembled in this sequence.





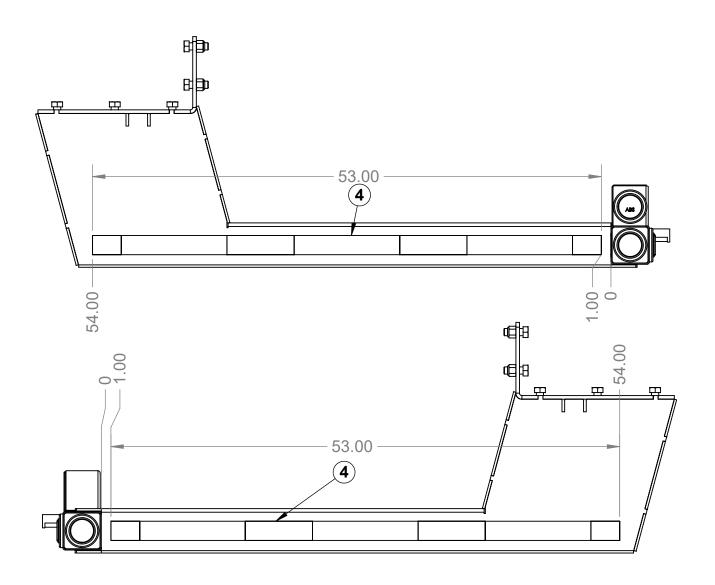
Page 86

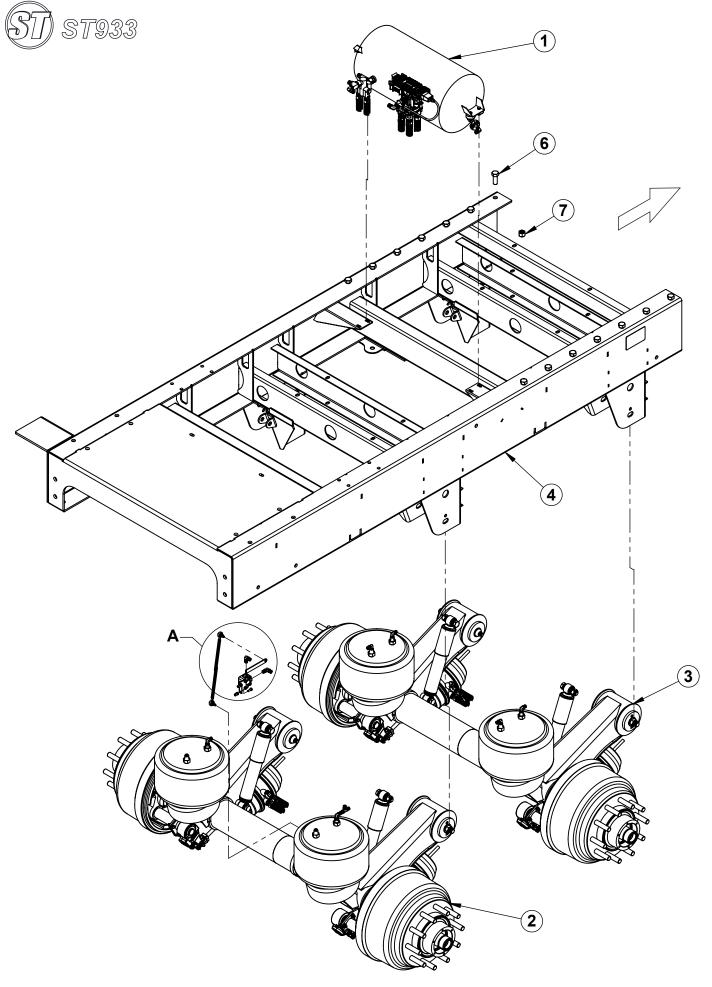
40-2-	00294 ASSY, TRAII	LER AXLE - ST TANDM (RIDEWELL)	
ITEM	PART NUMBER	DESCRIPTION	QTY.
1	40-2-00275	ASSY, ST FORMED BUMPER	1
2	40-2-00296	ASSY, ST FRAME W/ SUSPENSION (Ridewell)	1
3	40-2-00328	ASSY, MUD FLAP SUP RH	1
4	40-2-00329	ASSY, MUD FLAP SUP LH	1
5	40-2-00330	ASSY, FENDER SUP	6
6	90-43-0029	Wheel & Tire Assy, 11R22.5 - Alum Rim, Arisun Rubber	8
7	90-99-0042	FENDER, TANDEM FLEET ENGINEERS - 034-01366	2
8	90-99-0093	KIT, SEED TENDER AXLE CONTROL VALVES	1
9	90-99-0094	KIT, ST933 AXLE FITTINGS	1



40-2-	40-2-00275 ASSY, ST FORMED BUMPER					
ITEM	PART NUMBER	DESCRIPTION	QTY.	TORQUE (ft-lbs)		
1	40-3-00571	WELDMENT, ST FORMED BUMPER	1			
2	90-10-2801	Bolt, Hex 3/4-10 x 2 Gr8 ZP	10			
3	90-13-2619	Nut, Nylock 3/4-10 Gr8 ZP	10			
4	90-44-0282	Decal, Conspicuity Tape Red/White Roll (per FT)	13.25			
5	90-44-0287	Decal, Notice ABS	1			
6	90-46-0013	White Lamp, License Plate/Utility	1			
7	90-46-0014	Clearance Light, 2.5in Round Red	4			
8	90-46-0025	Light, Amber ABS Indicator, 2.50in Round	1			
9	90-46-0026	Light, Brake/Turn Combo Oval (PM 421KR)	4			
10	90-99-0039	GROMMET, 1" ID X 1.38" HOLE DIA .25" PANEL	2			

- 1. * The items indicated are shown for reference only, and must be assembled during final assembly.
- 2. ** The assemblies indicated are for illustrative purposes only and are not intended to be assembled in this sequence.

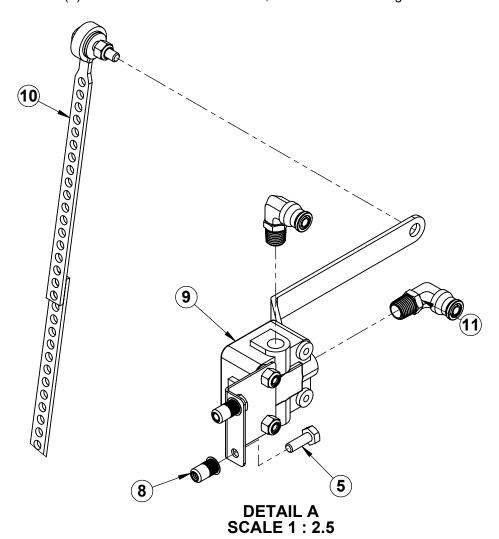


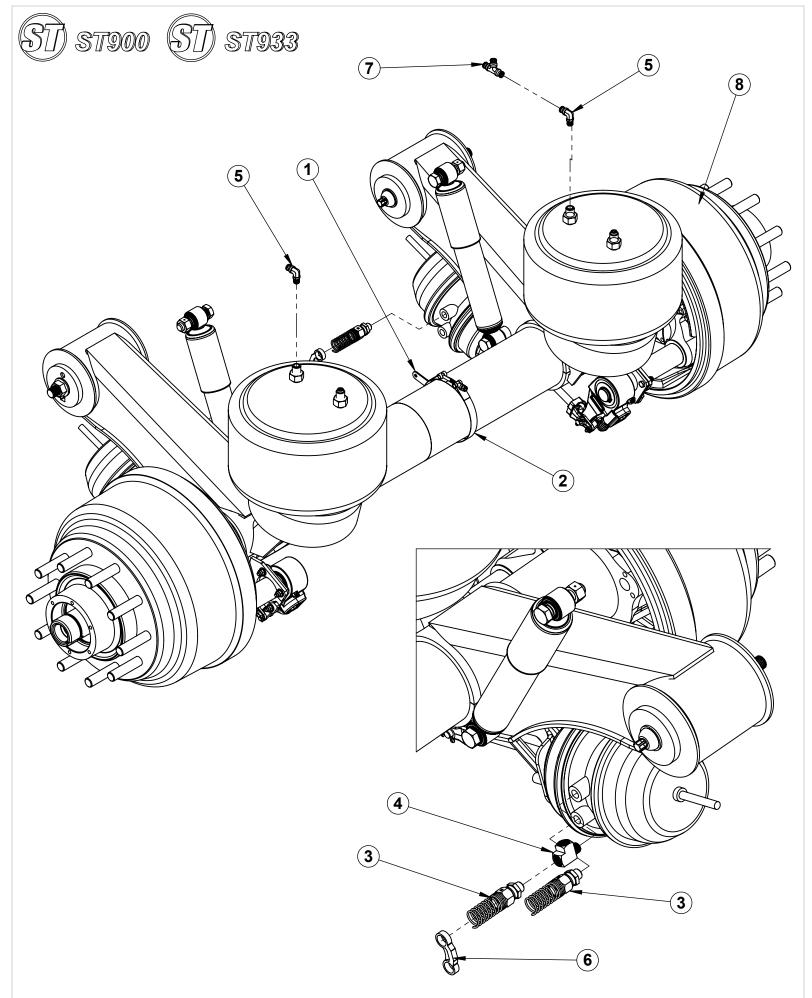


Page 90

40-2-0	40-2-00296 ASSY, ST FRAME W/ SUSPENSION (Ridewell)			
ITEM	PART NUMBER	DESCRIPTION	QTY.	
1	40-2-00276	ASSY, ST RESERVOIR	1	
2	40-2-00295	Assy, Axle and Suspension Rear (w/ABS) (RideWell)	1	
3	40-2-00297	Assy, Axle and Suspension Front (w/o ABS)	1	
4	40-3-00677	WELDMENT, ST FORMED FRAME (RIDEWELL)	1	
5	90-10-0013-SS	Bolt, Hex 1/4-20 x 3/4 18-8 (S/S)	2	
6	90-10-2802	Bolt, Hex 3/4-10 x 2 Gr8 - Magni 565	14	
7	90-13-2620	Nut, Nylock 3/4-10 Gr8 Magni 565	14	
8	90-13-9050	Nut, Rivet 1/4-20 .165"260" YZP	2	
+ 9	90-41-0023	Assy, Hendrickson Height Control	1	
+ 10	90-41-0029	Assy, Hendrickson Height Control Strap - S-14187	1	
+ 11	90-41-3041	Fitting, 04MP x 06 ABS 90° Swivel (DOT)	2	

- 1. * The items indicated are shown for reference only, and must be assembled during final assembly.
- 2. ** The assemblies indicated are for illustrative purposes only and are not intended to be assembled in this sequence.
- 3. *** The items indicated with a (+) are included in the 90-99-0093, and 90-99-0094 fitting kits.

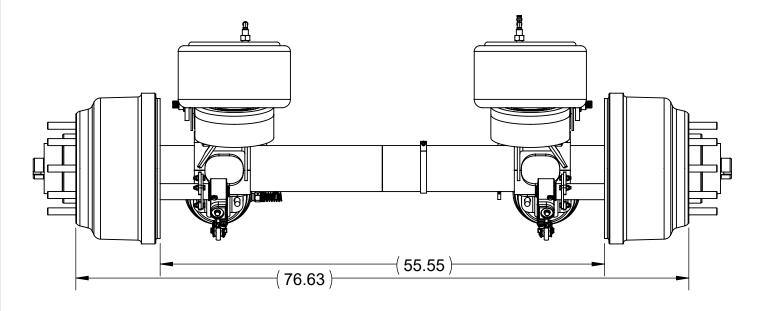


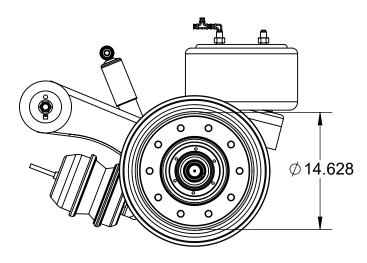


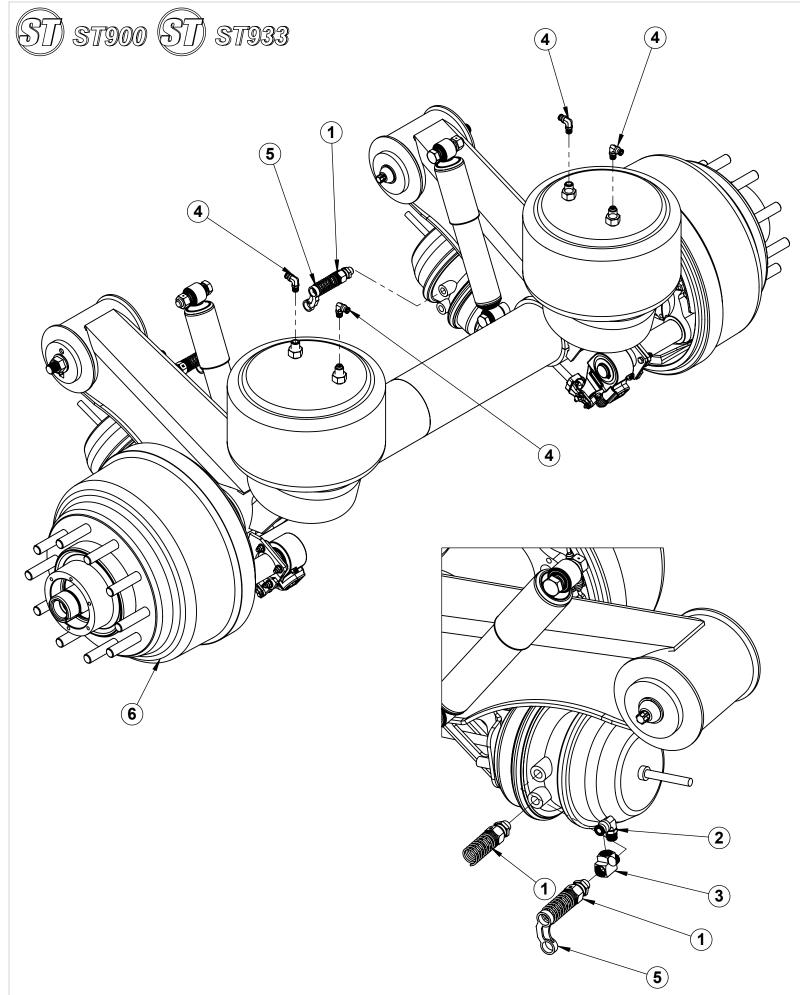
Page 92

40-2-0	40-2-00295 Assy, Axle and Suspension Rear (w/ABS) (RideWell)		
ITEM	PART NUMBER	DESCRIPTION	QTY.
1	40-4-02027	SHEET, RIDE HEIGHT CONTROL BRACKET	1
2	90-18-0035	Tight-Seal Bolt Clamp, HCTB-P333-575-750 G.L.Huyett	1
+ 3	90-41-3031	Fitting, 06MP x 06 ABS Hose, Spring Guard	3
+ 4	90-41-3038	Adapter, 06mp x 06FP x 06FP Street Tee	1
+ 5	90-41-3041	Fitting, 04MP x 06 ABS 90° Swivel (DOT)	2
+ 6	90-41-3042	Clip, Air Brake Hose Seperator - 3/8	2
+ 7	90-41-3048	Fitting, 06 ABS x 06 ABS Tee	1
8	90-43-4029	Assy, Axle and Suspension Rear (w/ABS) (RideWell)	1

- 1. * The items indicated are shown for reference only, and must be assembled during final assembly.
- 2. ** The assemblies indicated are for illustrative purposes only and are not intended to be assembled in this sequence.
- 3. *** The items indicated with a (+) are included in the 90-99-0093, and 90-99-0094 fitting kits.



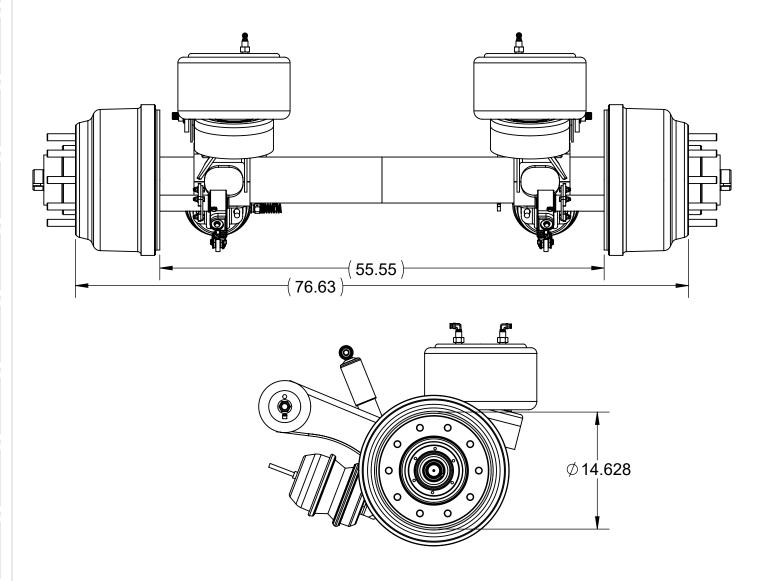


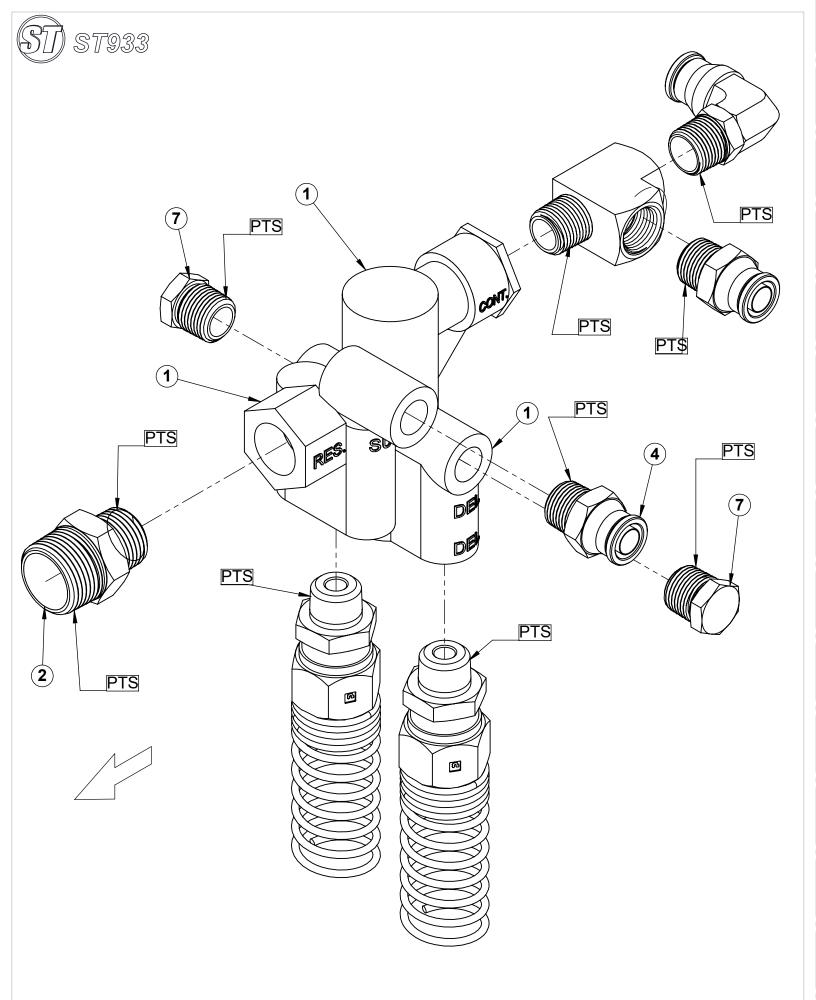


Page 94

40-2-	40-2-00297 Assy, Axle and Suspension Front (w/o ABS)		
ITEM	PART NUMBER	DESCRIPTION	QTY.
+ 1	90-41-3031	Fitting, 06MP x 06 ABS Hose, Spring Guard	3
+ 2	90-41-3034	Fitting, 06MP x 08 ABS Tube Elbow	1
+ 3	90-41-3038	Adapter, 06mp x 06FP x 06FP Street Tee	1
+ 4	90-41-3041	Fitting, 04MP x 06 ABS 90° Swivel (DOT)	4
+ 5	90-41-3042	Clip, Air Brake Hose Seperator - 3/8	2
6	90-43-4030	Axle/Suspension Assembly, Ridewell 266 w/out ABS Sensor	1

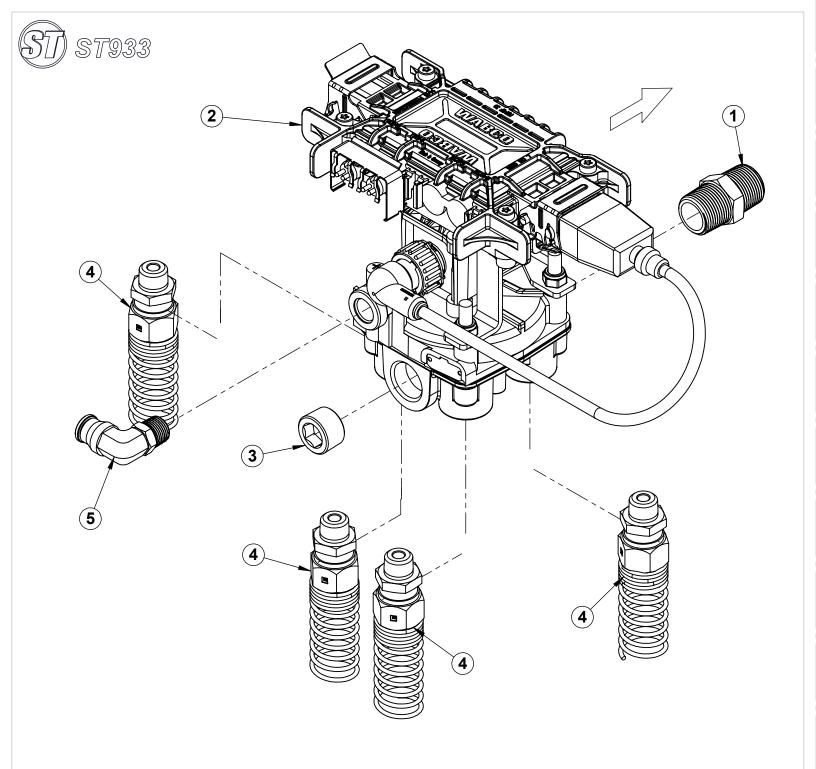
- 1. * The items indicated are shown for reference only, and must be assembled during final assembly.
- 2. ** The assemblies indicated are for illustrative purposes only and are not intended to be assembled in this sequence.
- 3. *** The items indicated with a (+) are included in the 90-99-0093, and 90-99-0094 fitting kits.





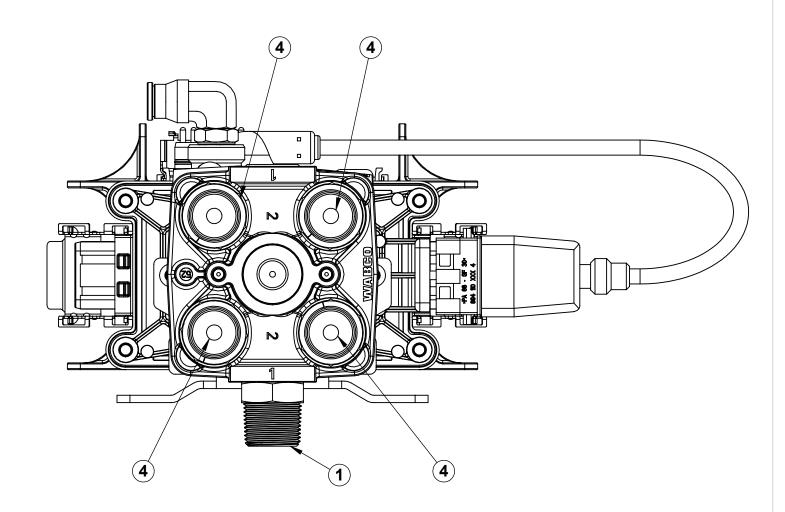
40-2-00281 ASSY, VALVE, ABS SPRING BRAKE CONTROL				
ITEM	PART NUMBER	DESCRIPTION	TORQUE (ft-lbs)	QTY.
+ 1	90-41-0015	Valve, ABS Spring Brake Control	, ,	1
+ 2	90-41-3026	Adapter, 12MP x 08MP Hex Reducer (DOT)		1
+ 3	90-41-3031	Fitting, 06MP x 06 ABS Hose, Spring Guard		2
+ 4	90-41-3032	Fitting, 06MP x 08 ABS Tube Straight, Push Connect		2
+ 5	90-41-3034	Fitting, 06MP x 08 ABS Tube Elbow		1
+ 6	90-41-3038	Adapter, 06mp x 06FP x 06FP Street Tee		1
+ 7	90-41-3071	Plug, External Hex 3/8 NPT Male - Brass		2

- 1. * The items indicated are shown for reference only, and must be assembled during final assembly.
- 2. ** The assemblies indicated are for illustrative purposes only and are not intended to be assembled in this sequence.
- 3. PTS= Apply Pipe Thread Sealant, use Rectorseal # 21 or equivalent.
- 4. The items indicated with a (+) are included in the 90-99-0093, and 90-99-0094 fitting kits.

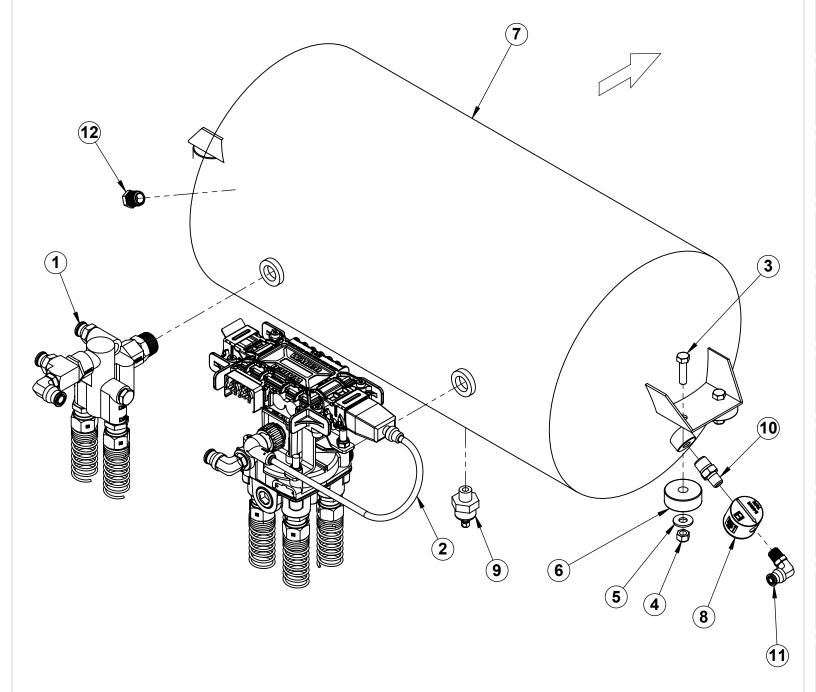


40-2-00282 ASSY, VALVE ABS CONTROL				
ITEM	PART NUMBER	DESCRIPTION	TORQUE (ft-lbs)	QTY.
+ 1	90-38-0184	Adapter, Hex Nipple, 12 MP x 12 MP (DOT)		1
+ 2	90-41-0014	Valve, ABS Control WABCO 2S1M		1
+ 3	90-41-3027	Adapter, 12MP Hex Plug		1
+ 4	90-41-3031	Fitting, 06MP x 06 ABS Hose, Spring Guard		4
+ 5	90-41-3034	Fitting, 06MP x 08 ABS Tube Elbow		1

- 1. * The items indicated are shown for reference only, and must be assembled during final assembly.
- 2. ** The assemblies indicated are for illustrative purposes only and are not intended to be assembled in this sequence.
- 3. *** The items indicated with a (+) are included in the 90-99-0093, and 90-99-0094 fitting kits.



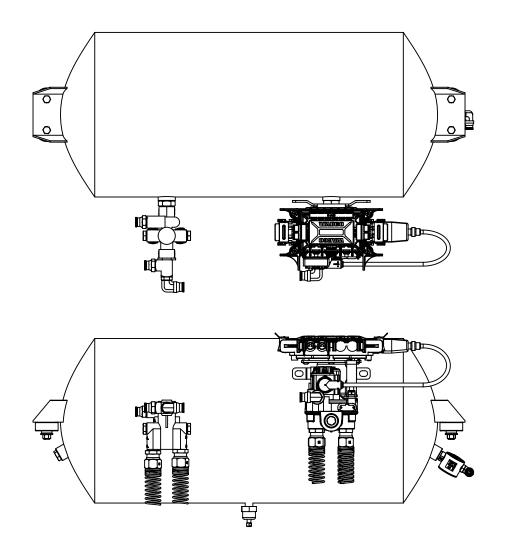




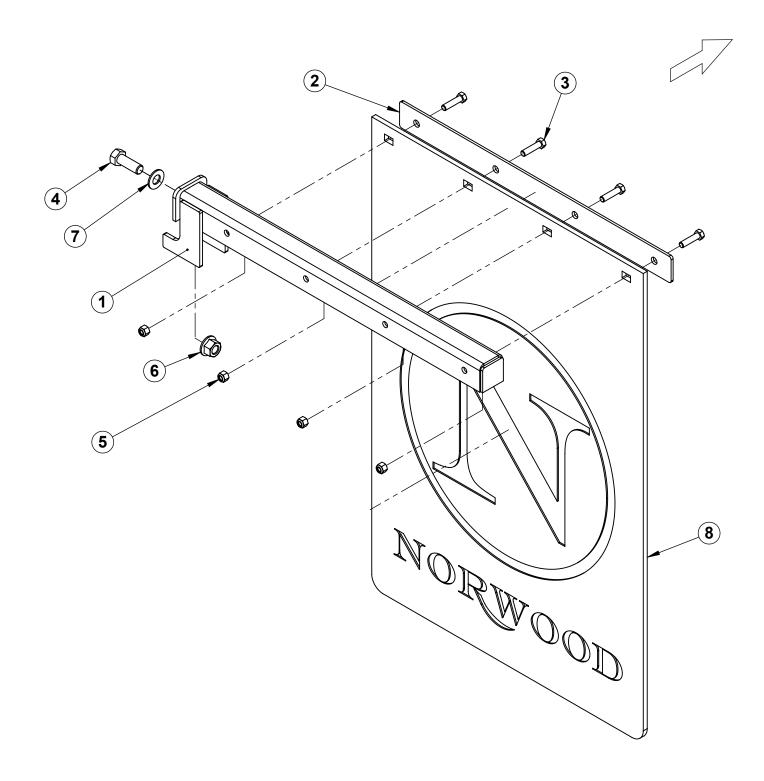
40-2-00276 ASSY, ST RESERVOIR				
ITEM	PART NUMBER	DESCRIPTION	QTY.	TORQUE (ft-lbs)
1	40-2-00281	ASSY, VALVE, ABS SPRING BRAKE CONTROL	1	
2	40-2-00282	ASSY, VALVE ABS CONTROL	1	
3	90-10-0421-SS	Bolt, Hex 5/16-18 x 1 1/4 SS	4	
4	90-13-2569-SS	Nut, Nylock 5/16-18 18-8 (S/S)	4	
5	90-14-0037-SS	FLAT WASHER, 5/16 ZP	4	
6	90-21-0033	Spring, Engine Vibration Dampner - 140lb Cap 3/8in Bolt	4	
7	90-41-0016	Reservoir, Trailer Air Brakes, 2850 cu. in.	1	
+ 8	90-41-0018	Valve, Pressure Protection VS-38941 Hendrickson	1	
+ 9	90-41-3024	Fitting, Air Reservoir Drain	1	
+ 10	90-41-3029	Adapter, 06MP x 04MP Reducer	1	
+11	90-41-3041	Fitting, 04MP x 06 ABS 90° Swivel (DOT)	1	
+ 12	90-41-3071	Plug, External Hex 3/8 NPT Male - Brass	1	

NOTE:

1. * The items indicated with a (+) are included in the 90-99-0093, and 90-99-0094 fitting kits.



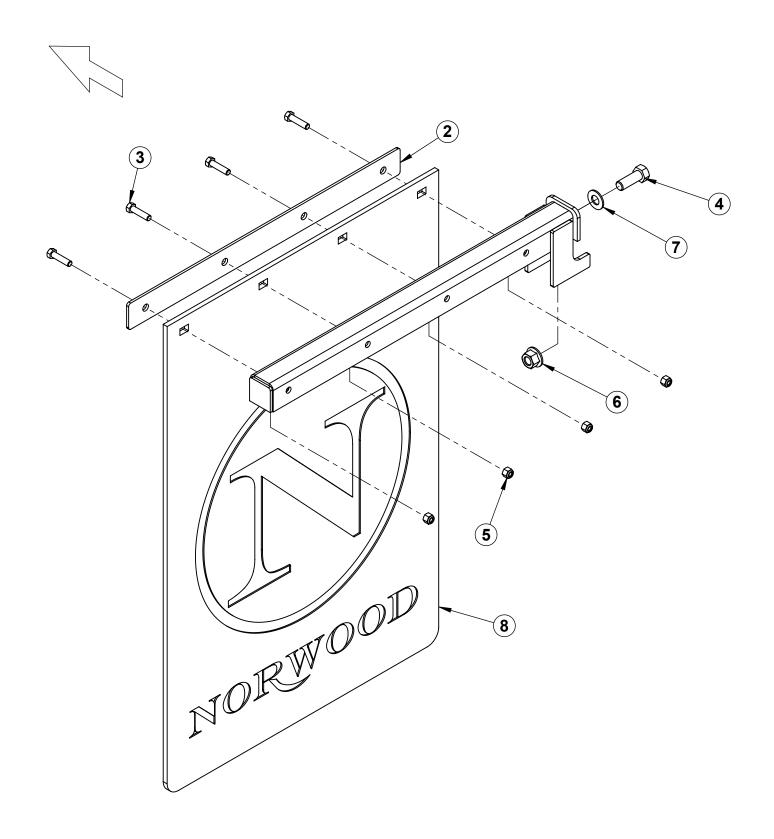




40-2-00328 ASSY, MUD FLAP SUP RH			
ITEM	PART NUMBER	DESCRIPTION	QTY.
1	40-3-00733	WELD, MUDFLAP SUPP	1
2	40-4-01937	SHEET, MUD FLAP RETAINER	1
3	90-10-0793-SS	Bolt, Hex 3/8-16 x 1-1/2 18-8 (S/S)	4
4	90-10-2269	Bolt, Hex 5/8-11 x 1 3/4 Gr5 ZP	1
5	90-13-2577-SS	Nut, Nylock 3/8-16 18-8 (S/S)	4
6	90-13-9035	Nut, Flanged Toplock 5/8-11 GrF ZP	1
7	90-14-0056	Washer, Flat 5/8 ZP (SAE)	1
8	90-99-0037	MUD FLAP, 24 X 36	1

- 1. * The items indicated are shown for reference only, and must be assembled during final assembly.
- 2. ** The assemblies indicated are for illustrative purposes only and are not intended to be assembled in this sequence.

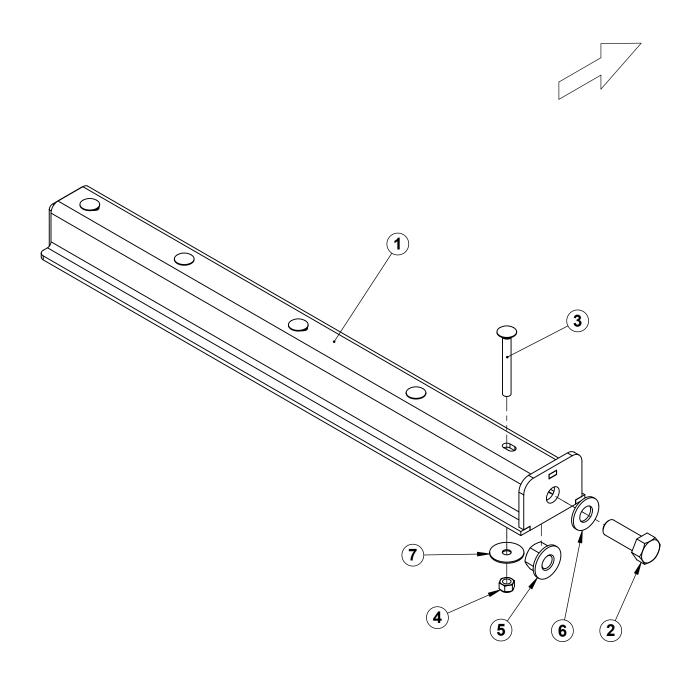




40-2-00329 ASSY, MUD FLAP SUP LH			
ITEM	PART NUMBER	DESCRIPTION	QTY.
1	40-3-00733	WELD, MUDFLAP SUPP	1
2	40-4-01937	SHEET, MUD FLAP RETAINER	1
3	90-10-0793-SS	Bolt, Hex 3/8-16 x 1-1/2 18-8 (S/S)	4
4	90-10-2269	Bolt, Hex 5/8-11 x 1 3/4 Gr5 ZP	1
5	90-13-2577-SS	Nut, Nylock 3/8-16 18-8 (S/S)	4
6	90-13-9035	Nut, Flanged Toplock 5/8-11 GrF ZP	1
7	90-14-0056	Washer, Flat 5/8 ZP (SAE)	1
8	90-99-0037	MUD FLAP, 24 X 36	1

- 1. * The items indicated are shown for reference only, and must be assembled during final assembly.
- 2. ** The assemblies indicated are for illustrative purposes only and are not intended to be assembled in this sequence.



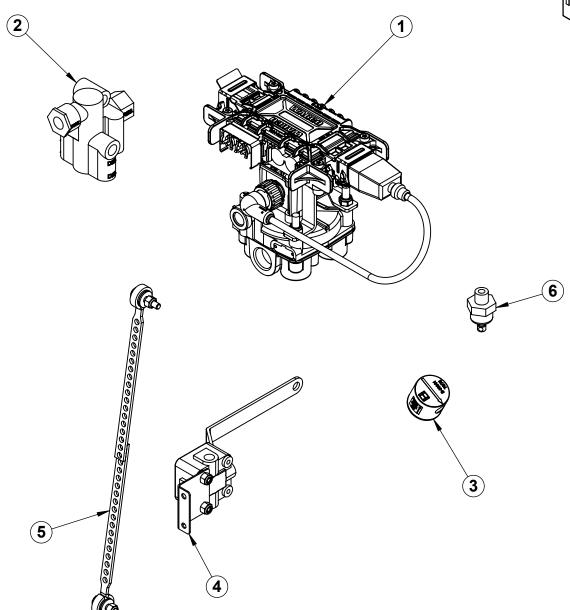


40-2-00330 ASSY, FENDER SUP			
ITEM	PART NUMBER	DESCRIPTION	QTY.
1	40-3-00732	WELD, REAR FENDER SUPP	1
2	90-10-2269	Bolt, Hex 5/8-11 x 1 3/4 Gr5 ZP	1
3	90-10-7091 SS	Bolt, Carriage 5/16-18 x 2 3/4 SS	5
4	90-13-2569-SS	Nut, Nylock 5/16-18 18-8 (S/S)	5
5	90-13-9035	Nut, Flanged Toplock 5/8-11 GrF ZP	1
6	90-14-0056	Washer, Flat 5/8 ZP (SAE)	1
7	90-14-1072-SS	Washer, Fender 5/16 x 1 1/4 SS	5

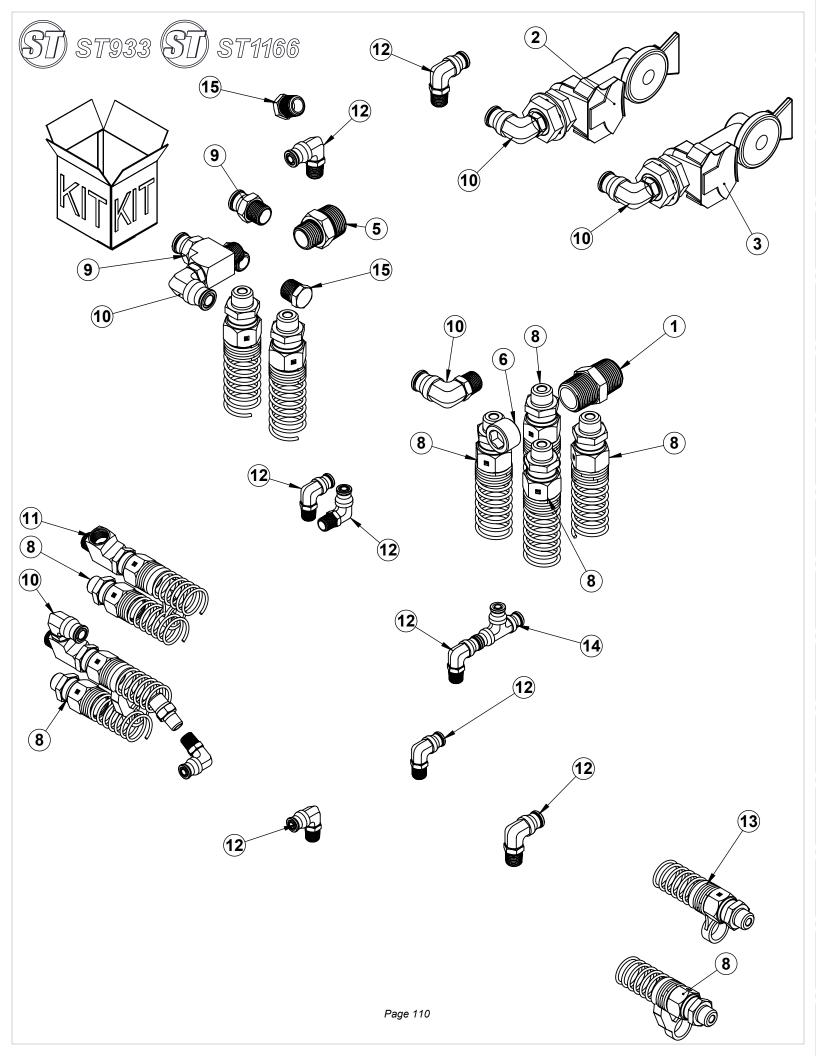
- 1. * The items indicated are shown for reference only, and must be assembled during final assembly.
- 2. ** The assemblies indicated are for illustrative purposes only and are not intended to be assembled in this sequence.



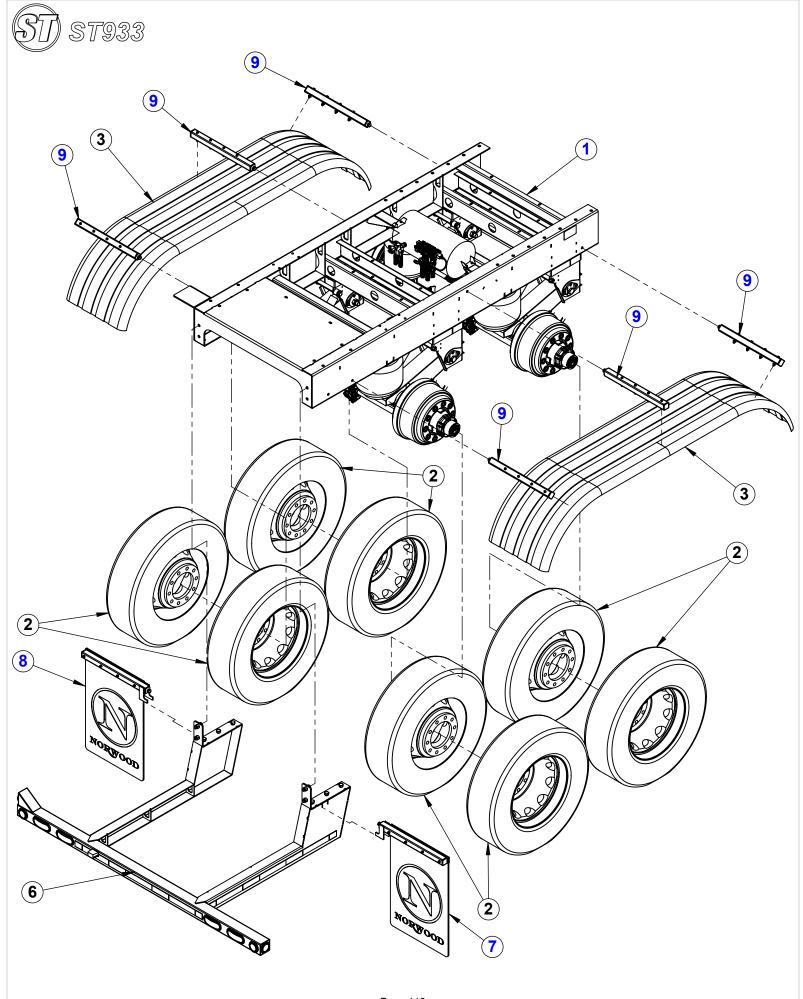




90-99	90-99-0093 KIT, SEED TENDER AXLE CONTROL VALVES		
ITEM	PART NUMBER	DESCRIPTION	QTY.
1	90-41-0014	Valve, ABS Control WABCO 2S1M	1
2	90-41-0015	Valve, ABS Spring Brake Control	1
3	90-41-0018	Valve, Pressure Protection VS-38941 Hendrickson	1
4	90-41-0023	Assy, Hendrickson Height Control	1
5	90-41-0029	Assy, Hendrickson Height Control Strap - S-14187	1
6	90-41-3024	Fitting, Air Reservoir Drain	1

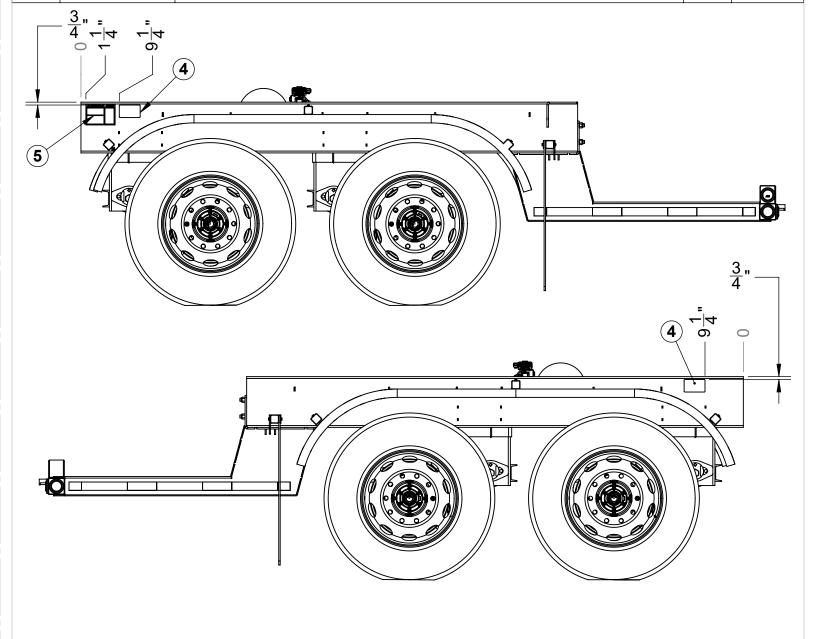


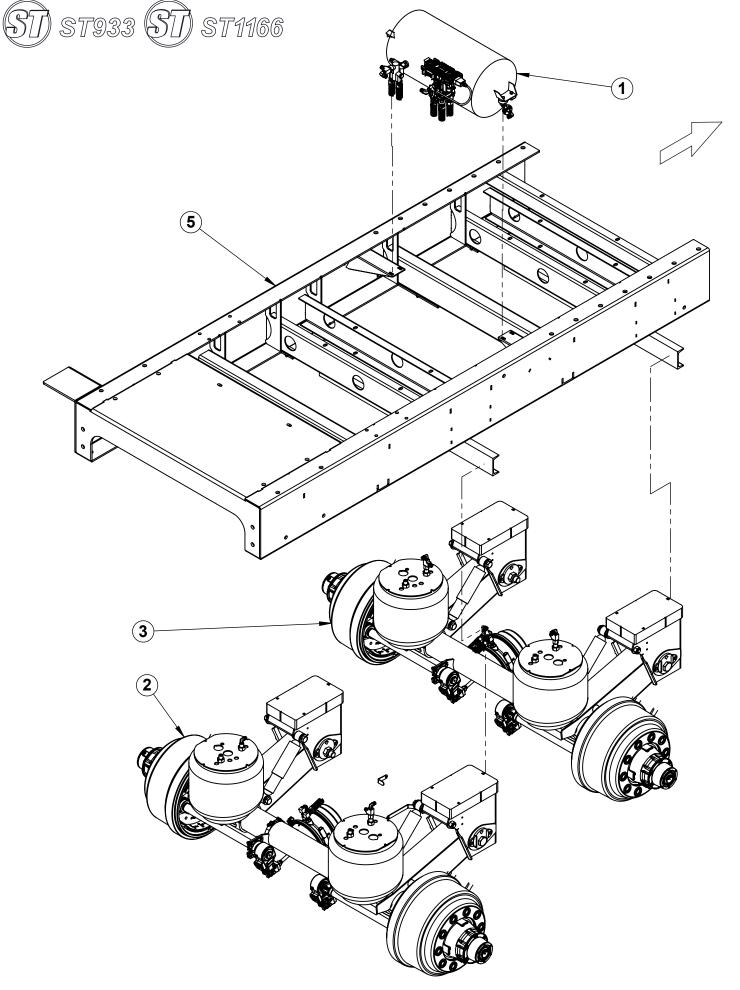
90-99	90-99-0094 KIT, ST933 AXLE FITTINGS				
ITEM	PART NUMBER	DESCRIPTION	QTY.	TORQUE (ft-lbs)	
1	90-38-0184	Adapter, Hex Nipple, 12 MP x 12 MP (DOT)	1	, ,	
2	90-41-3021	Fitting, Gladhand, 1/2" (Emergency)	1		
3	90-41-3022	Fitting, Gladhand, 3/8" (Service)	1		
4	90-41-3023	Adapter, Bulkhead, 1/2MP x 3/8FP	2		
5	90-41-3026	Adapter, 12MP x 08MP Hex Reducer (DOT)	1		
6	90-41-3027	Adapter, 12MP Hex Plug	1		
7	90-41-3029	Adapter, 06MP x 04MP Reducer	1		
8	90-41-3031	Fitting, 06MP x 06 ABS Hose, Spring Guard	9		
9	90-41-3032	Fitting, 06MP x 08 ABS Tube Straight, Push Connect	2		
10	90-41-3034	Fitting, 06MP x 08 ABS Tube Elbow	4		
11	90-41-3038	Adapter, 06mp x 06FP x 06FP Street Tee	2		
12	90-41-3041	Fitting, 04MP x 06 ABS 90° Swivel (DOT)	5		
13	90-41-3042	Clip, Air Brake Hose Seperator - 3/8	2		
14	90-41-3048	Fitting, 06 ABS x 06 ABS x 06 ABS Tee	1		
15	90-41-3071	Plug, External Hex 3/8 NPT Male - Brass	3		



Page 112

40-2-	40-2-00211 ASSEMBLY, TRAILER AXLE - ST TANDEM FORMED FRAME-CUSH				
ITEM	PART NUMBER	DESCRIPTION	QTY.	TORQUE (ft-lbs)	
1	40-2-00277	ASSY, ST FRAME TANDEM	1		
2	90-43-0029	Wheel & Tire Assy, 11R22.5 - Alum Rim, Arisun Rubber	8		
3	90-99-0042	FENDER, TANDUM FLEET ENGINEERS - 034-01366	2		
4	90-44-0290	Decal, Wheel End Torque	2		
5	90-44-0288	Decal, Warning - Cush	1		
6	40-2-00275	ASSY, ST FORMED BUMPER	1		
7	40-2-00272	ASSY, MUD FLAP SUPPORT - RIGHT	1		
8	40-2-00273	ASSY, MUD FLAP SUPPORT - LEFT	1		
9	40-2-00274	ASSY, ST FENDER SUPPORT- FORMED FRAME	6		

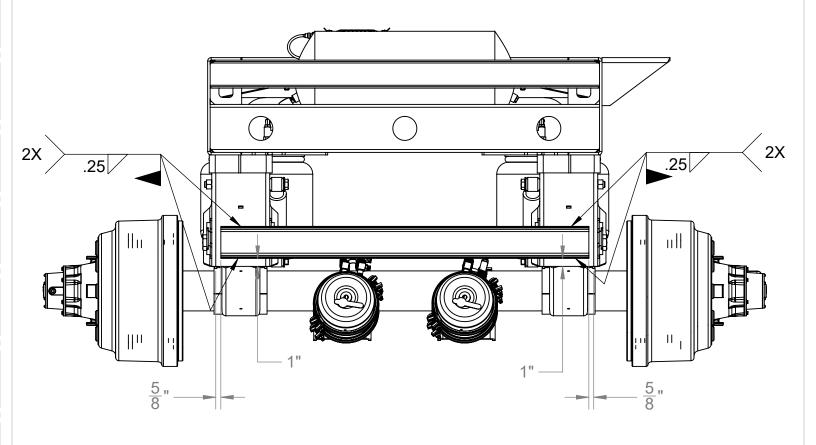




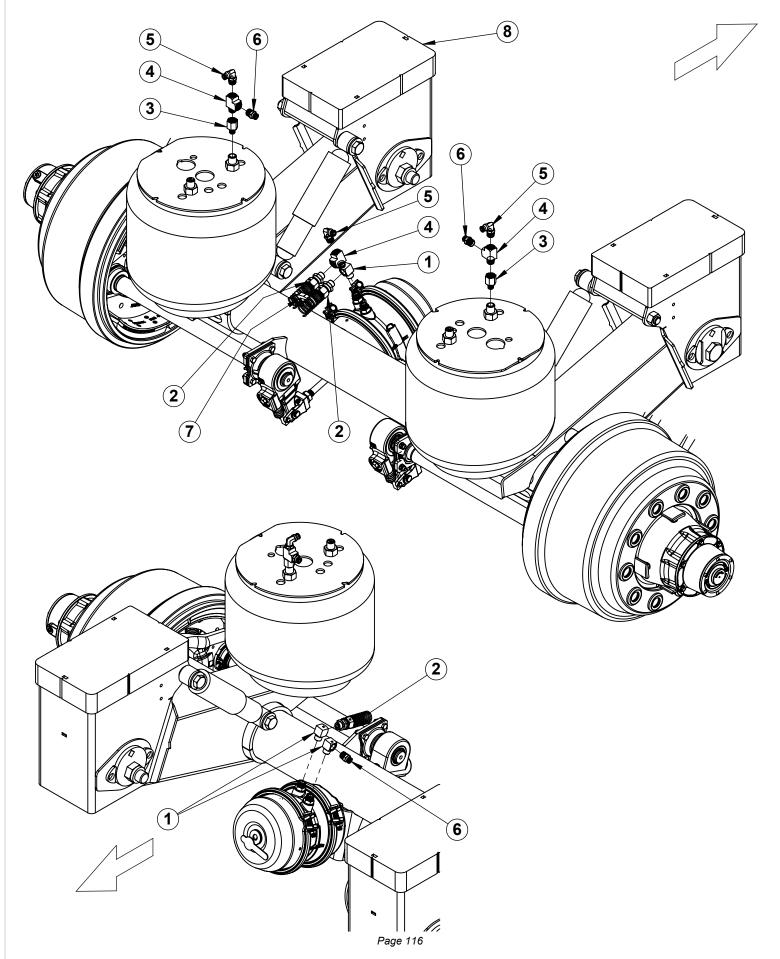
Page 114

40-2-	40-2-00277 ASSY, ST FRAME TANDEM-CUSH				
ITEM	PART NUMBER	DESCRIPTION	QTY.	TORQUE (ft-lbs)	
1	40-2-00276	ASSY, ST RESERVOIR	1		
2	40-2-00278	ASSY, AXLE SUSPENSION REAR	1		
3	40-2-00279	ASSY, AXLE SUSPENSION FRONT	1		
4	40-2-00280	ASSY, PNEUMATIC HOSE ROUTING	1		
5	40-3-00572	WELDMENT, ST FORMED FRAME - TANDEM 933	1		

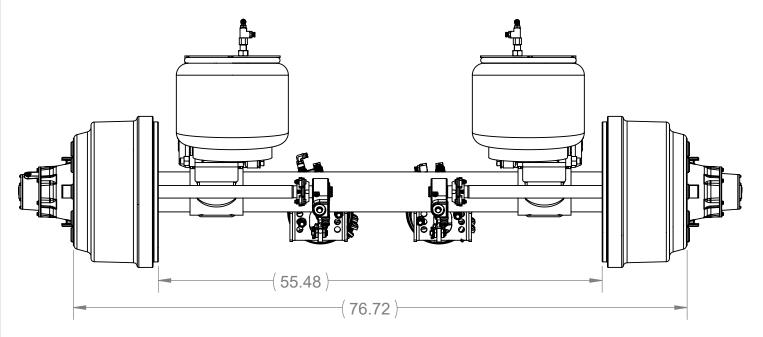
- 1. * The items indicated are shown for reference only, and must be assembled during final assembly.
- 2. ** The assemblies indicated are for illustrative purposes only and are not intended to be assembled in this sequence.

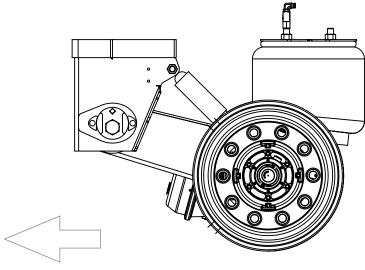


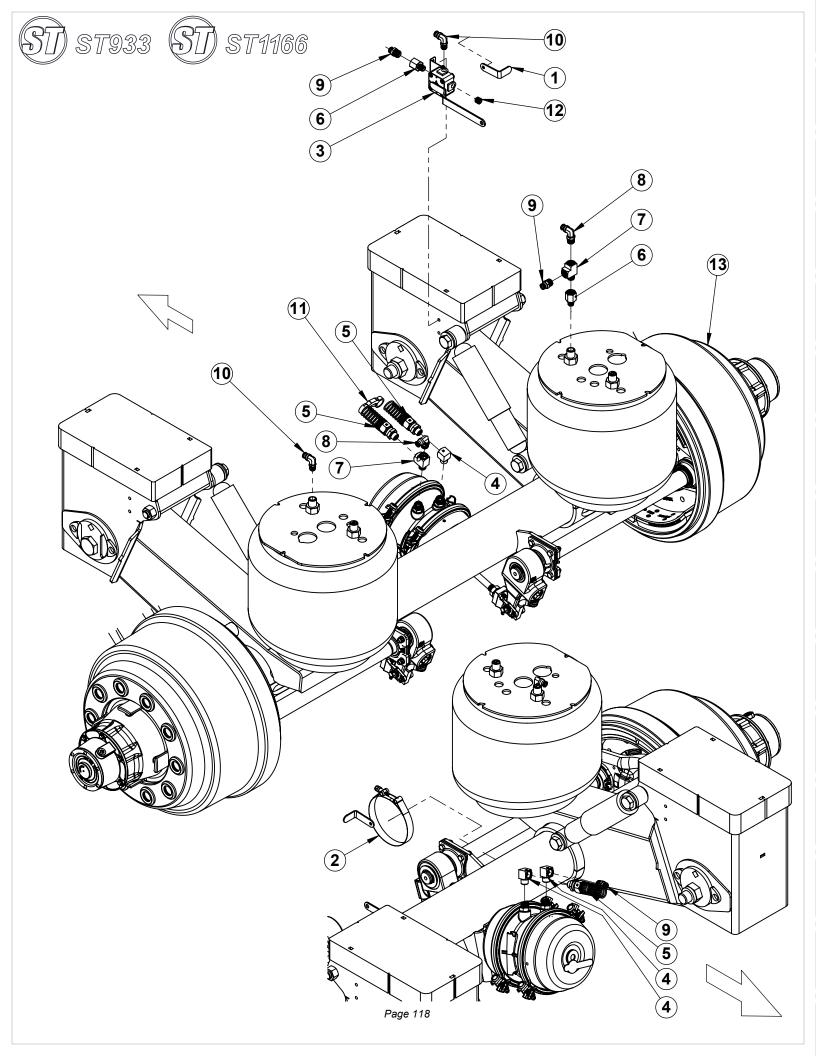




40-2-0	40-2-00279 ASSY, AXLE SUSPENSION FRONT-CUSH				
ITEM	PART NUMBER	DESCRIPTION	QTY.	TORQUE (ft-lbs)	
1	90-41-3030	Adapter, 06MP x 06FP Street Elbow	3		
2	90-41-3031	Fitting, 06MP x 06 ABS Hose, Spring Guard	3		
3	90-41-3037	Adapter, 04MP x 06FP	2		
4	90-41-3038	Adapter, 06mp x 06FP x 06FP Street Tee	3		
5	90-41-3039	Fitting, 06MP x 06 ABS 90° Swivel (DOT)	3		
6	90-41-3040	Fitting, 06MP x 06 ABS Straight (DOT)	3		
7	90-41-3042	Clip, Air Brake Hose Seperator - 3/8	1		
8	90-43-4019	Axle/Suspension Assembly, Cush CR25TF16-KC02A	1		

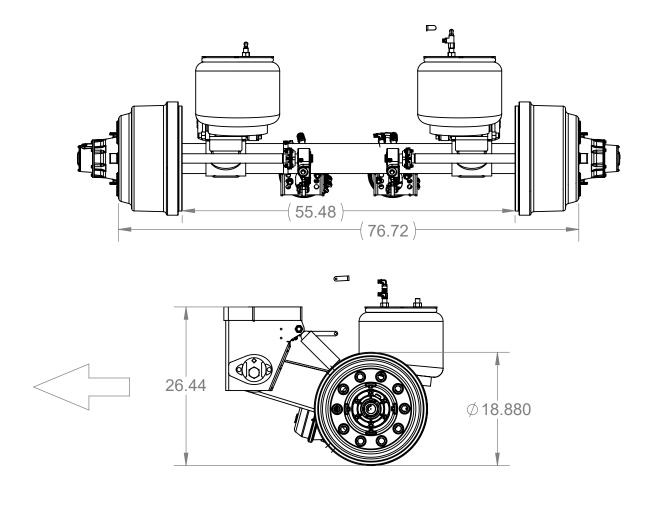




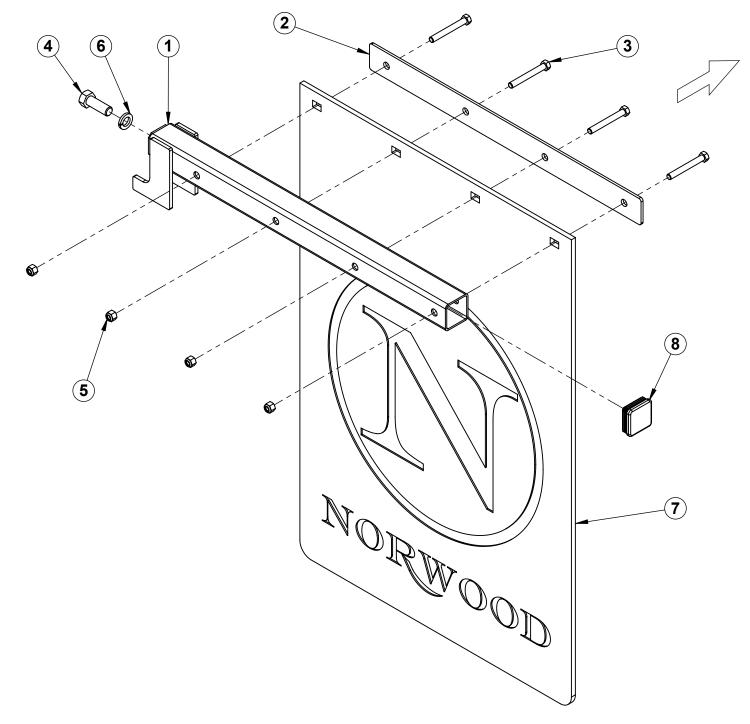


40-2-00278 ASSY, AXLE SUSPENSION REAR-CUSH						
ITEM	PART NUMBER	DESCRIPTION	QTY.	TORQUE (ft-lbs)		
1	40-4-02027	SHEET, RIDE HEIGHT CONTROL BRACKET	1			
2	90-18-0007	Clamp, Hose, Bolt, Stainless Steel - 4 25/32 - 5 3/32	1			
3	90-41-0023	Assy, Hendrickson Height Control	1			
4	90-41-3030	Adapter, 06MP x 06FP Street Elbow	3			
5	90-41-3031	Fitting, 06MP x 06 ABS Hose, Spring Guard	3			
6	90-41-3037	Adapter, 04MP x 06FP	2			
7	90-41-3038	Adapter, 06mp x 06FP x 06FP Street Tee	2			
8	90-41-3039	Fitting, 06MP x 06 ABS 90° Swivel (DOT)	2			
9	90-41-3040	Fitting, 06MP x 06 ABS Straight (DOT)	3			
10	90-41-3041	Fitting, 04MP x 06 ABS 90° Swivel (DOT)	2			
11	90-41-3042	Clip, Air Brake Hose Seperator - 3/8	1			
12	90-41-3043	Adapter, 04MP Hex Plug	1			
13	90-43-4020	Axle/Suspension Assembly, Cush CR25TF16-KC02N	1			

- 1. * The items indicated are shown for reference only, and must be assembled during final assembly.
- 2. ** The assemblies indicated are for illustrative purposes only and are not intended to be assembled in this sequence.



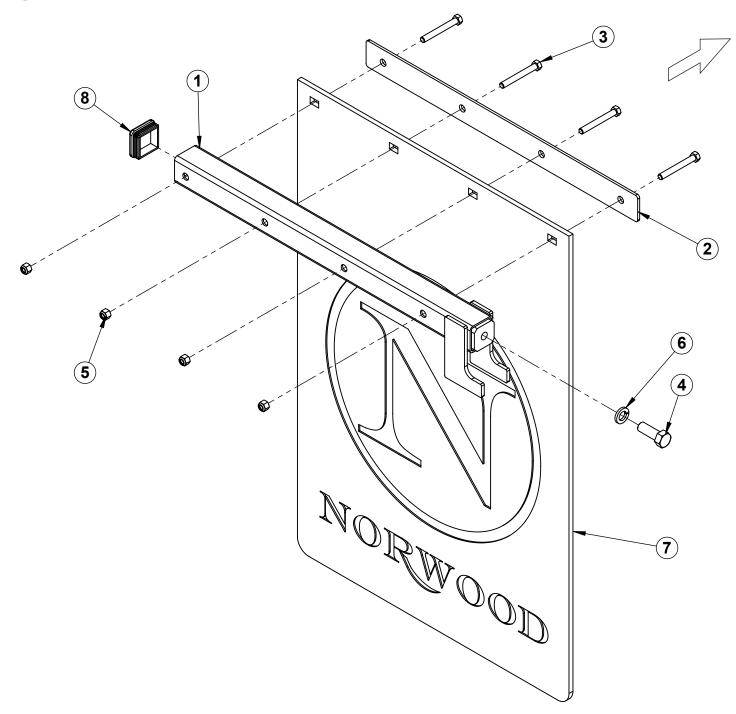




40-2-	40-2-00272 ASSY, MUD FLAP SUPPORT - RIGHT				
ITEM	PART NUMBER	DESCRIPTION	QTY.	TORQUE (ft-lbs)	
1	40-3-00568	WELDMENT, ST MUD FLAP SUPPORT	1		
2	40-4-01937	SHEET, MUD FLAP RETAINER	1		
3	90-10-0861-SS	HEX BOLT, 3/8 X 3 GR5-CT-ZP	4		
4	90-10-2269	Bolt, Hex 5/8-11 x 1 3/4 Gr5 ZP	1		
5	90-13-2577-SS	Nut, Nylock 3/8-16 18-8 (S/S)	4		
6	90-14-2057	Washer, Split Lock 5/8 ZP	1		
7	90-99-0037	MUD FLAP, 24 X 36	1		
8	90-99-0038	CAP PLASTIC BLACK, 2 SQ. TUBE x .1726 WALL	1		

- 1. * The items indicated are shown for reference only, and must be assembled during final assembly.
- 2. ** The assemblies indicated are for illustrative purposes only and are not intended to be assembled in this sequence.

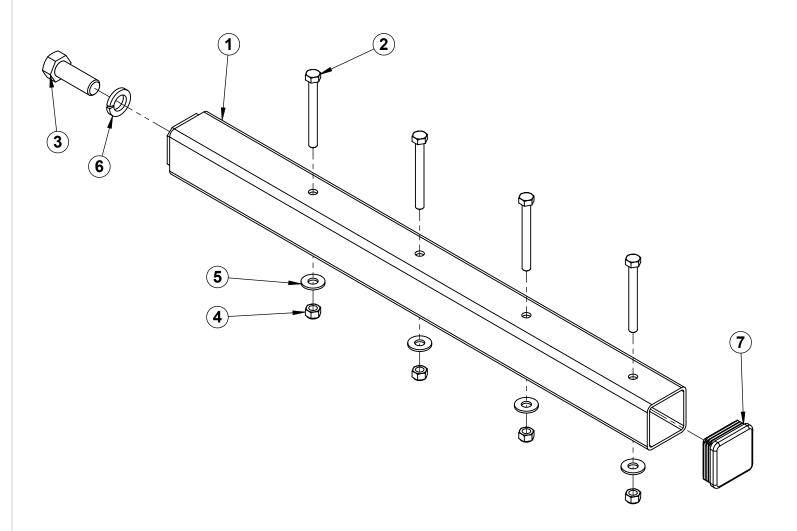




40-2-00273 ASSY, MUD FLAP SUPPORT - LEFT				
ITEM	PART NUMBER	DESCRIPTION	QTY.	TORQUE (ft-lbs)
1	40-3-00568	WELDMENT, ST MUD FLAP SUPPORT	1	
2	40-4-01937	SHEET, MUD FLAP RETAINER	1	
3	90-10-0861-SS	HEX BOLT, 3/8 X 3 GR5-CT-ZP	4	
4	90-10-2269	Bolt, Hex 5/8-11 x 1 3/4 Gr5 ZP	1	
5	90-13-2577-SS	Nut, Nylock 3/8-16 18-8 (S/S)	4	
6	90-14-2057	Washer, Split Lock 5/8 ZP	1	
7	90-99-0037	MUD FLAP, 24 X 36	1	
8	90-99-0038	CAP PLASTIC BLACK, 2 SQ. TUBE x .1726 WALL	1	

- 1. * The items indicated are shown for reference only, and must be assembled during final assembly.
- 2. ** The assemblies indicated are for illustrative purposes only and are not intended to be assembled in this sequence.





40-2-	40-2-00274 ASSY, ST FENDER SUPPORT- FORMED FRAME				
ITEM	PART NUMBER	DESCRIPTION	QTY.	TORQUE (ft-lbs)	
1	40-3-00567	WELDMENT, ST FENDER SUPPORT - FORMED FRAME	1		
2	90-10-0493-SS	BOLT, HEX 5/16-18 X 2-1/2 GR5 ZP	4		
3	90-10-2269	Bolt, Hex 5/8-11 x 1 3/4 Gr5 ZP	1		
4	90-13-2569-SS	Nut, Nylock 5/16-18 18-8 (S/S)	4		
5	90-14-0037-SS	FLAT WASHER, 5/16 ZP	4		
6	90-14-2057	Washer, Split Lock 5/8 ZP	1		
7	90-99-0038	CAP PLASTIC BLACK, 2 SQ. TUBE x .1726 WALL	1		

- 1. * The items indicated are shown for reference only, and must be assembled during final assembly.
- 2. ** The assemblies indicated are for illustrative purposes only and are not intended to be assembled in this sequence.

ST933 Fertilizer & Seed Tender

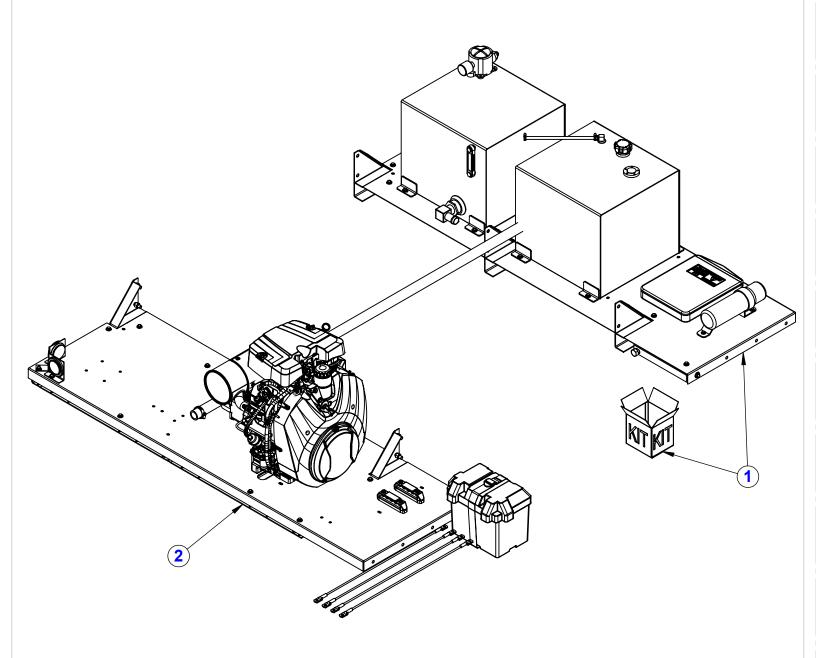
Stainless Tender Parts Catalog Options

For Models:

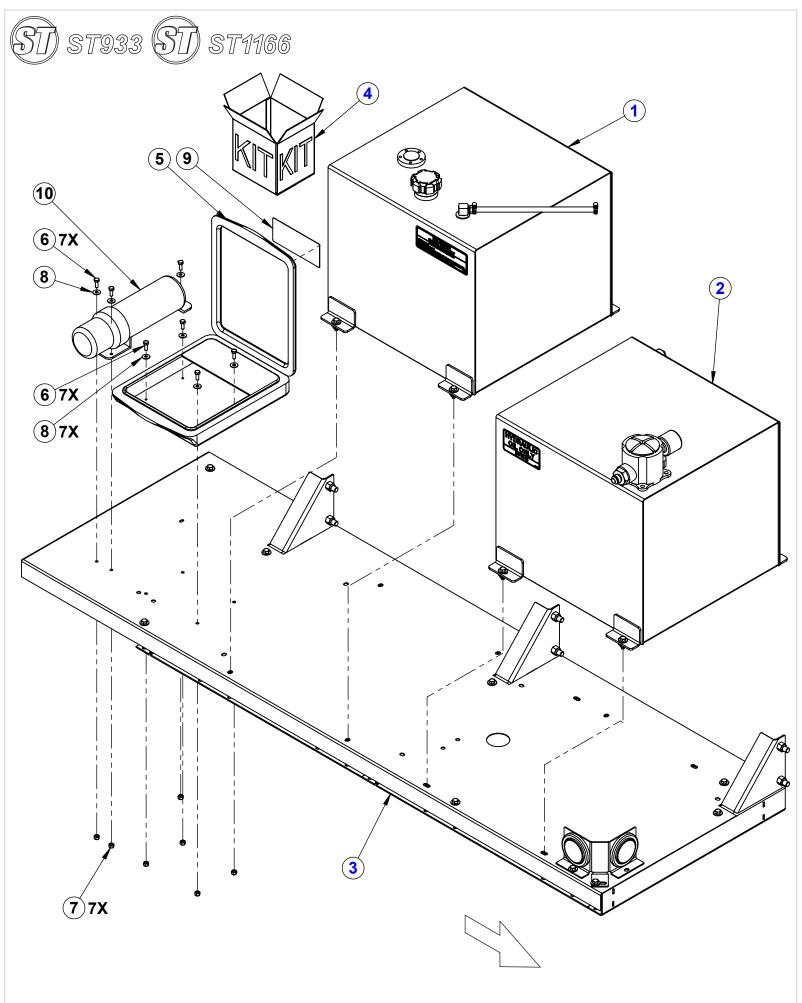
• Uni-Body Stainless Tenders (ST933)

Page 127
rayorzi



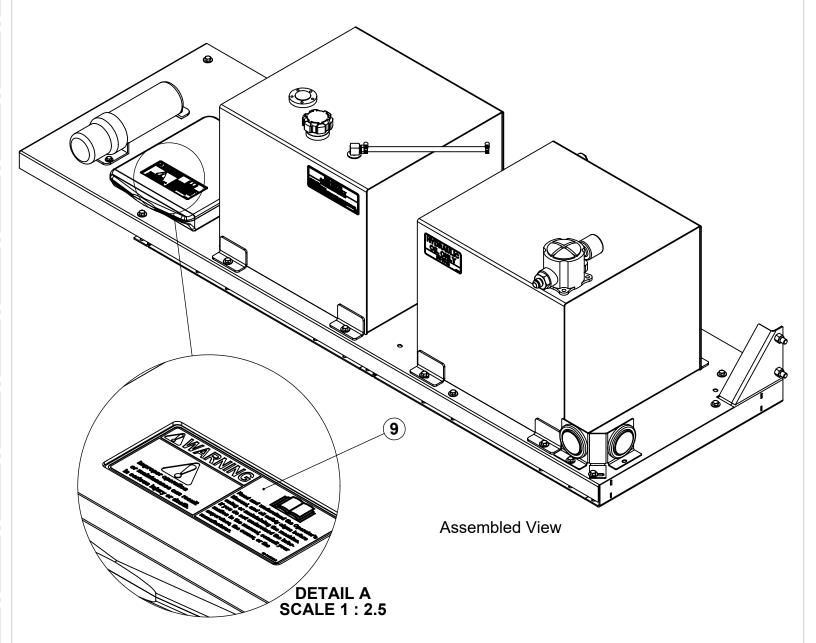


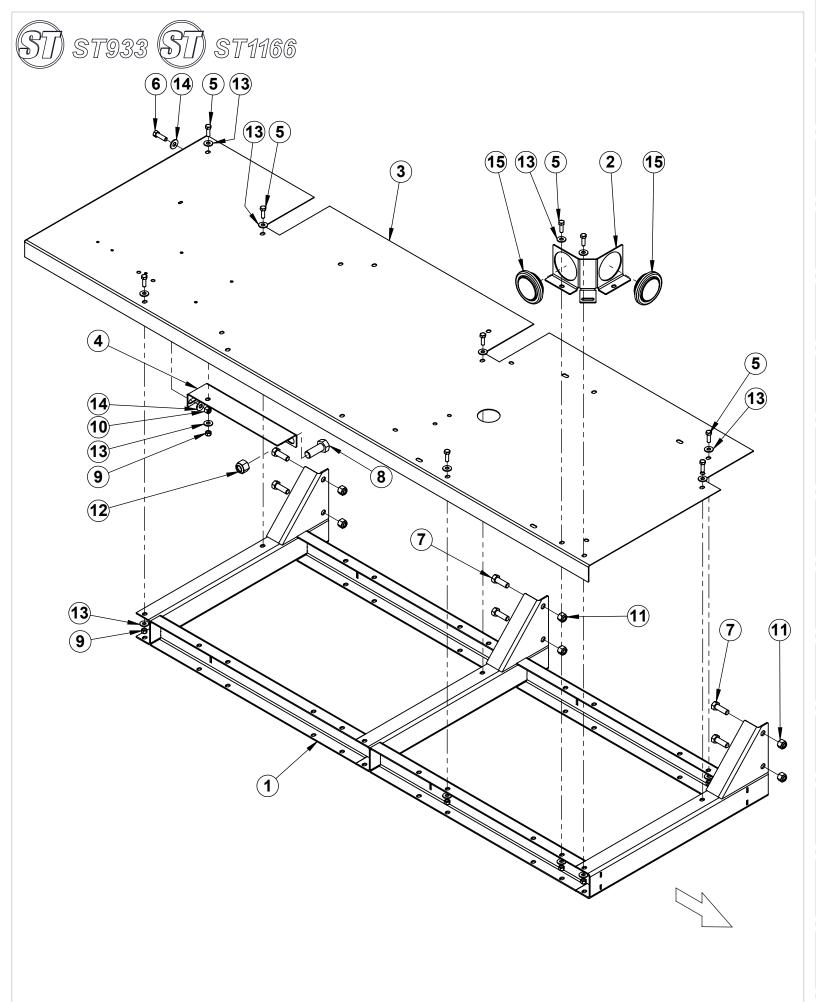
40-2-	40-2-00240 ASSEMBLY, SELF CONTAINED POWER PACK				
ITEM	PART NUMBER	DESCRIPTION	QTY.	TORQUE (ft-lbs)	
1	40-2-00202	ASSEMBLY, FENDER PASSENGER	1		
2	40-2-00207	ASSEMBLY, FENDER DRIVER - BASE ST	1		



Page 130

40-2-0	40-2-00202 ASSEMBLY, FENDER PASSENGER		
ITEM	PART NUMBER	DESCRIPTION	QTY.
1	40-2-00197	ASSEMBLY, 25 GALLON FUEL TANK	1
2	40-2-00369	Assy, Hyd Tank-25 Gal SS	1
3	40-2-00370	Assy, ST Fender Support - Passenger	1
4	40-5-00010	Kit, Owners ST933 & ST1166	1
5	614-3-0165	FLAT MANUAL HOLDER	1
6	90-10-0013-SS	Bolt, Hex 1/4-20 x 3/4 18-8 (S/S)	7
7	90-13-2561-SS	Nut, Nylock 1/4-20 18-8 (S/S)	7
8	90-14-0033-SS	Washer, Flat 1/4 18-8 (S/S)	7
9	90-44-0295	Decal, Warning - Read and Understand - Manual Holder	1
10	90-99-0008	MANUAL STORAGE TUBE	1





40-2-00370 Assy, ST Fender Support - Passenger				
ITEM	PART NUMBER	DESCRIPTION	QTY.	TORQUE (ft-lbs)
1	40-3-00519	WELDMENT, ST FENDER SUPPORT FRAME - PASSENGER	1	, ,
2	40-4-01964	SHEET, FRONT CLEARENCE LIGHT BRACKET	1	
3	40-4-01991	SHEET, FENDER PASSENGER - ST STANDARD	1	
4	40-4-01997	SHEET, PASSENGER FENDER SUPPORT	1	
5	90-10-0405-SS	Bolt, Hex 5/16-18 x 1 SS	9	
6	90-10-0781-SS	Bolt, Hex 3/8-16 x 1-1/4 18-8 (S/S)	1	
7	90-10-1605-SS	Bolt, Hex 1/2-13 x 1 1/2 SS	6	
8	90-10-2801	Bolt, Hex 3/4-10 x 2 Gr8 ZP	1	
9	90-13-2569-SS	Nut, Nylock 5/16-18 18-8 (S/S)	9	
10	90-13-2577-SS	Nut, Nylock 3/8-16 18-8 (S/S)	1	
11	90-13-2593-SS	Nut, Nylock 1/2-13 18-8 (S/S)	6	
12	90-13-2617	Nut, Nylock 3/4-10 Gr5 ZP	1	
13	90-14-0037-SS	FLAT WASHER, 5/16 ZP	18	

2

15 Note:

14

90-14-0041-SS

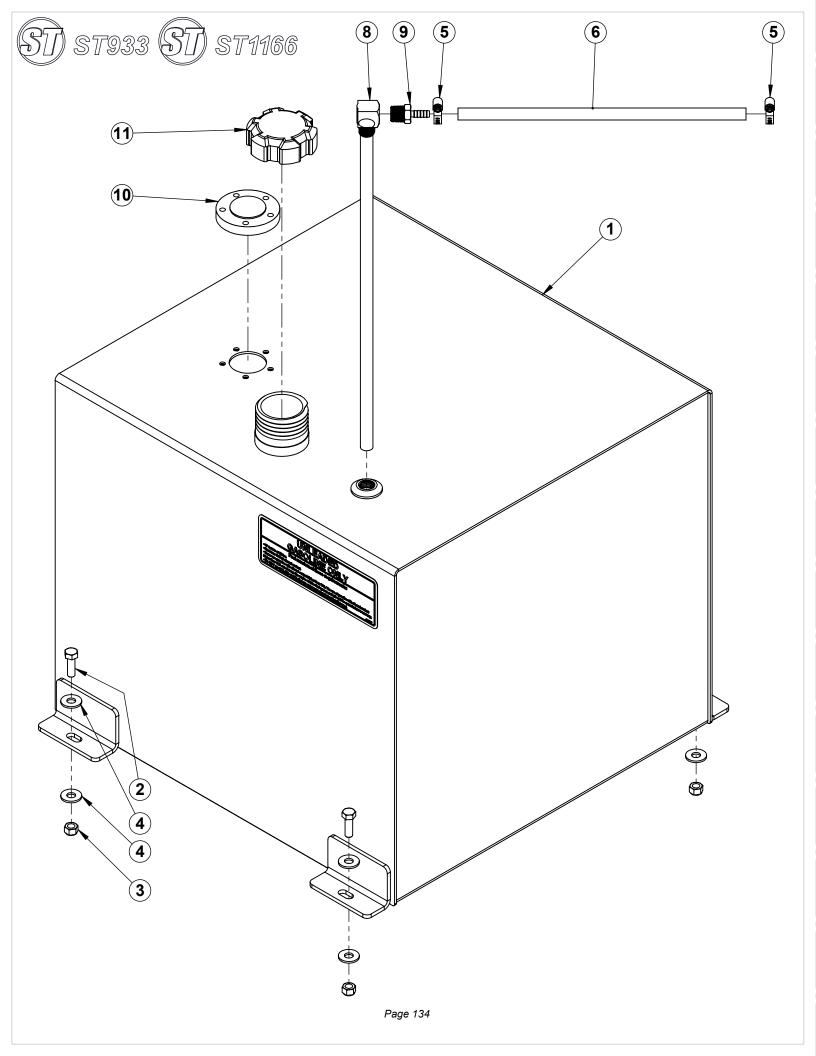
90-46-0016

1. * The items indicated are shown for reference only, and must be assembled during final assembly.

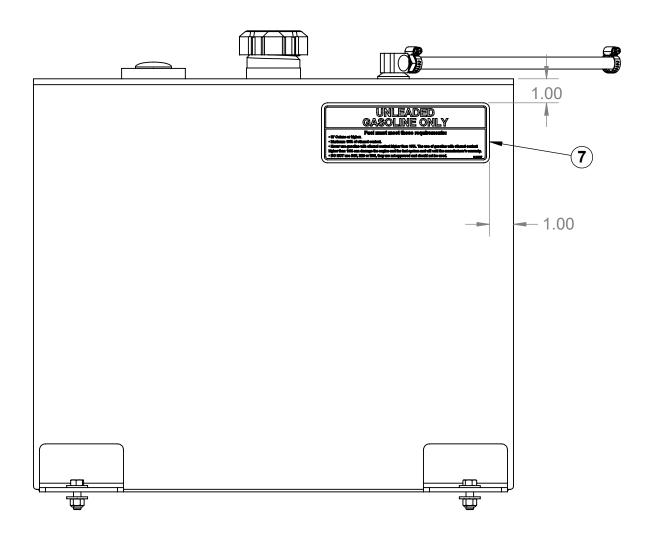
Clearance Light, 2.5IN Round, Amber

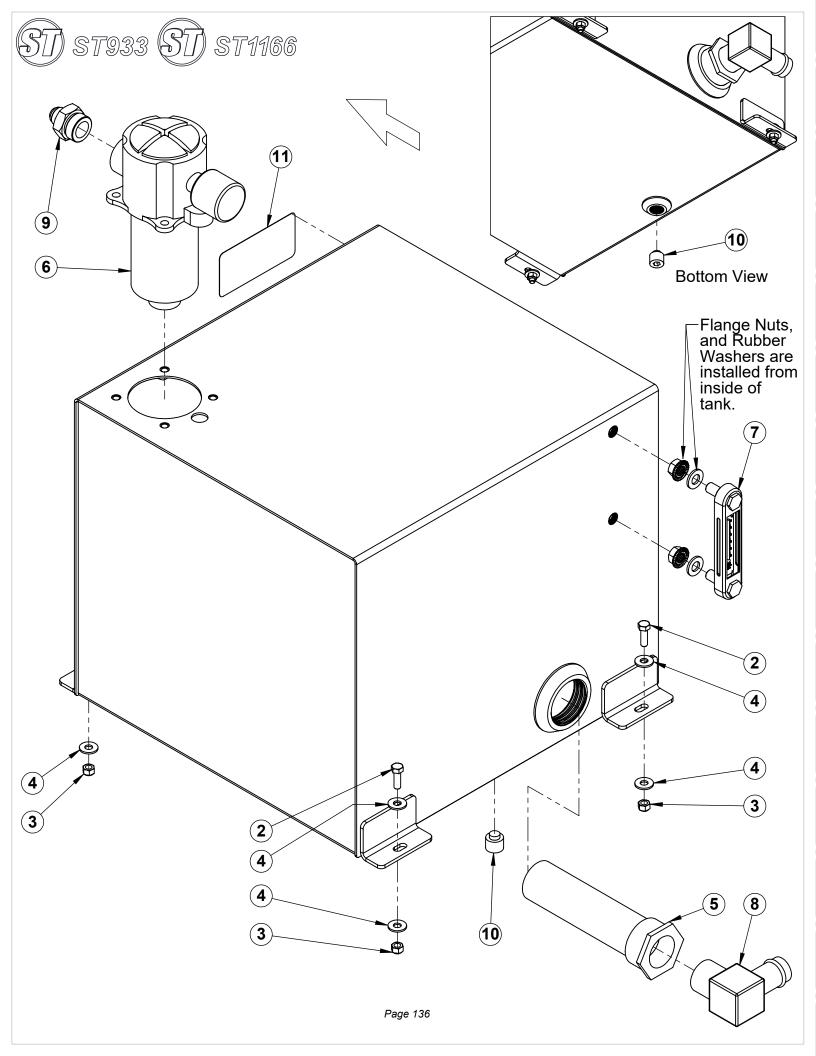
Washer, Flat 3/8 18-8 (S/S)

2. ** The assemblies indicated are for illustrative purposes only and are not intended to be assembled in this sequence.



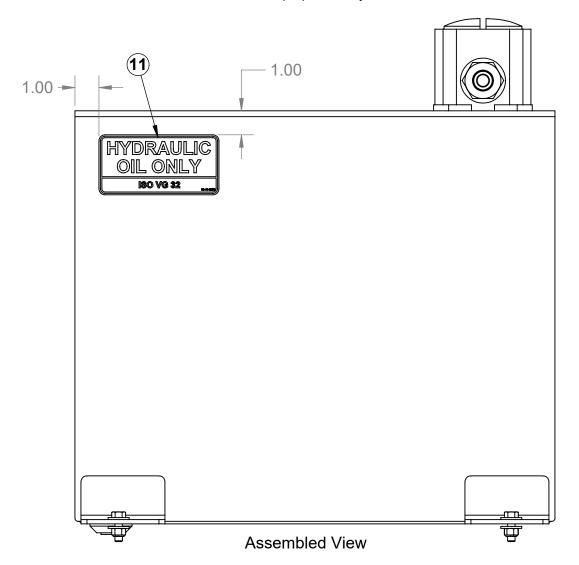
40-2-00197 ASSEMBLY, 25 GALLON FUEL TANK				
ITEM	PART NUMBER	DESCRIPTION	QTY.	TORQUE (ft-lbs)
1	40-3-00536	WELDMENT, 25 GALLON FUEL TANK - STAINLESS	1	
2	90-10-0405-SS	Bolt, Hex 5/16-18 x 1 SS	4	
3	90-13-2569-SS	Nut, Nylock 5/16-18 18-8 (S/S)	4	
4	90-14-0037-SS	FLAT WASHER, 5/16 ZP	8	
5	90-37-2016	Hose Clamp, .4478 ID Range .31 Width	2	
6	90-37-3005	Hose, 1/4" Fuel Line - SAE 30R7	1	
7	90-44-0267	Decal, Unleaded Gasoline Only (87 Oct)	1	
8	90-52-0048	Fitting, Pickup Tube - Moeller 033500-24	1	
9	90-52-0049	Fitting, Hose Barb - Moeller 033806-10	1	
10	90-52-0050	Sending Unit, Moeller 035756-10	1	
11	90-52-0051	Fuel Cap, 2 1/4 Buttress Thread 5 TPI	1	

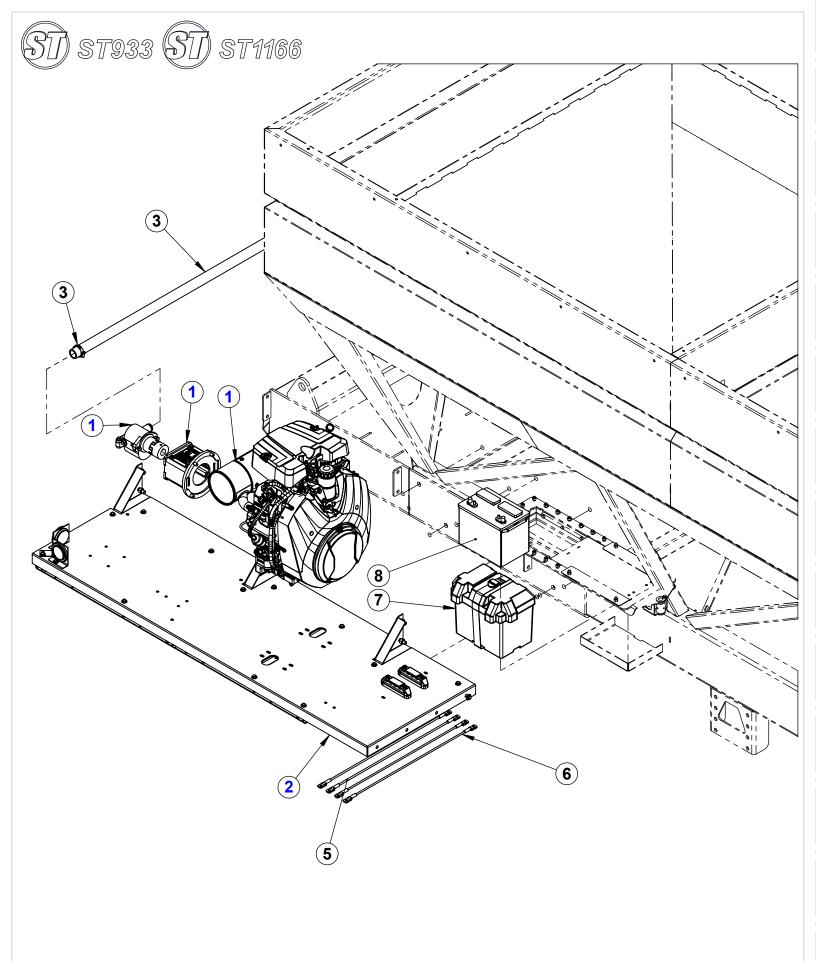




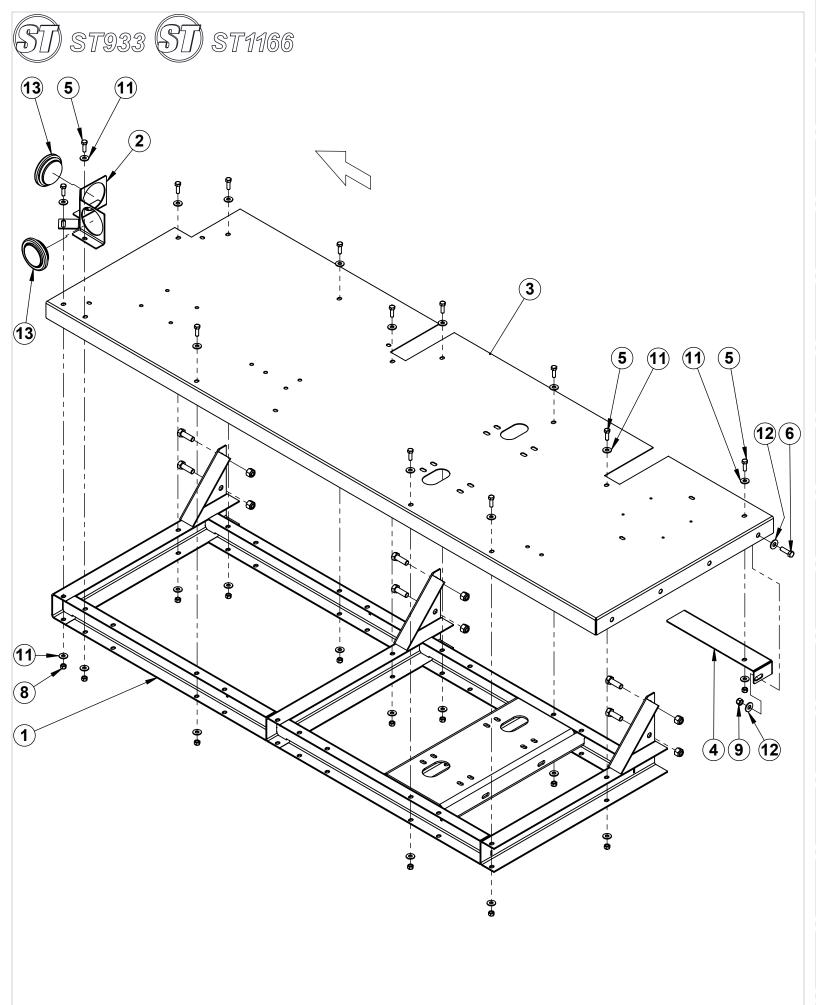
40-2-00369 Assy, Hyd Tank-25 Gal SS				
ITEM	PART NUMBER	DESCRIPTION	QTY.	TORQUE (ft-lbs)
1	40-3-00537	WELDMENT, 25 GALLON HYD TANK - STAINLESS	1	
2	90-10-0405-SS	Bolt, Hex 5/16-18 x 1 SS	4	
3	90-13-2569-SS	Nut, Nylock 5/16-18 18-8 (S/S)	4	
4	90-14-0037-SS	FLAT WASHER, 5/16 ZP	8	
5	90-36-2002	Strainer, 2NPT x 1-1/4 NPT 100 Mesh	1	
6	90-36-2003	Filter, Tank Top (S-25-100-RV3)	1	
7	90-36-2009	Guage, Sight, 5" w/ Temp	1	
8	90-38-0004	Fitting, 90° Elbow, 20 MP x 20 Beaded Hose	1	
9	90-38-0033	Adapter, Straight, 10 MJ x 16 MO	1	
10	90-38-0063	Adapter, Plug, 1/2 NPT (Magnetic)	1	
11	90-44-0268	Decal, Hydraulic Oil Only (AW32)	1	

- 1. * The items indicated are shown for reference only, and must be assembled during final assembly.
- 2. ** The assemblies indicated are for illustrative purposes only and are not intended to be assembled in this sequence.



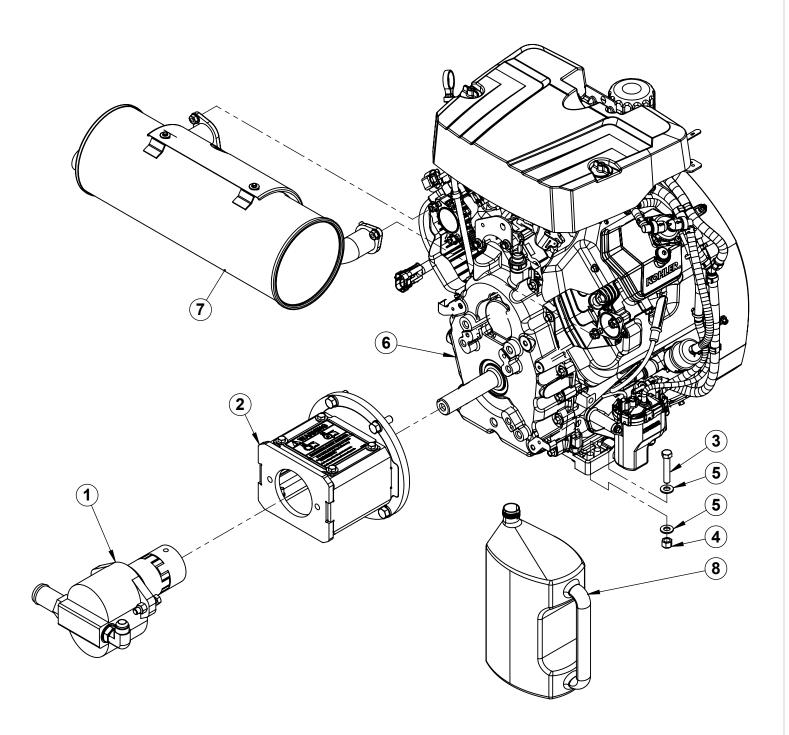


40-2-00207 ASSEMBLY, FENDER DRIVER - BASE ST			
ITEM	PART NUMBER	DESCRIPTION	QTY.
1	40-2-00285	ASSY, KOHLER ECH980 SELF CONTAINED POWER SYSTEM	1
2	40-2-00371	Assy, ST Fender Support - Driver Side	1
3	90-37-0061	Hose Kit, ST Suction Hose	1
4	90-46-1104	Busbar, 5 X 3/8" Studs, Red and Black	1
5	90-46-1109	Cable, Battery (Black) - 2'-6" 4 Ga W/ Lugs	2
6	90-46-1110	Cable, Battery (Red) - 2'-6" 4 Ga W/ Lugs	2
7	90-46-3014	Battery Box, Plastic, Series 24	1
8	90-46-4003	Battery, 12V - ST Deep Cycle (SRM-24)	1



40-2-00371 Assy, ST Fender Support - Driver Side				
ITEM	PART NUMBER	DESCRIPTION	QTY.	TORQUE (ft-lbs)
1	40-3-00516	WELDMENT, ST FENDER SUPPORT FRAME - DRIVER	1	
2	40-4-01964	SHEET, FRONT CLEARENCE LIGHT BRACKET	1	
3	40-4-01982	SHEET, FENDER DRIVER - MANUAL GATES	1	
4	40-4-01996	SHEET, DRIVER FENDER SUPPORT	1	
5	90-10-0405-SS	Bolt, Hex 5/16-18 x 1 SS	13	
6	90-10-0781-SS	Bolt, Hex 3/8-16 x 1-1/4 18-8 (S/S)	1	
7	90-10-1605-SS	Bolt, Hex 1/2-13 x 1 1/2 SS	6	
8	90-13-2569-SS	Nut, Nylock 5/16-18 18-8 (S/S)	13	
9	90-13-2577-SS	Nut, Nylock 3/8-16 18-8 (S/S)	1	
10	90-13-2593-SS	Nut, Nylock 1/2-13 18-8 (S/S)	6	
11	90-14-0037-SS	FLAT WASHER, 5/16 ZP	26	
12	90-14-0041-SS	Washer, Flat 3/8 18-8 (S/S)	2	
13	90-46-0016	Clearance Light, 2.5IN Round, Amber	2	

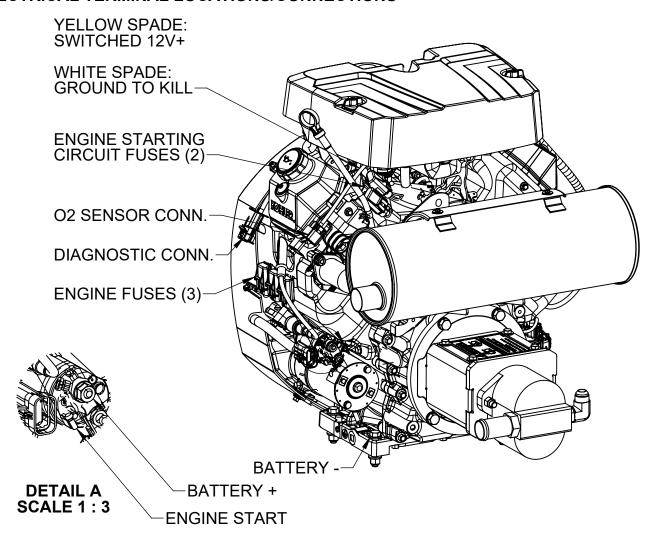
- * The items indicated are shown for reference only, and must be assembled during final assembly.
 ** The assemblies indicated are for illustrative purposes only and are not intended to be assembled in this sequence.



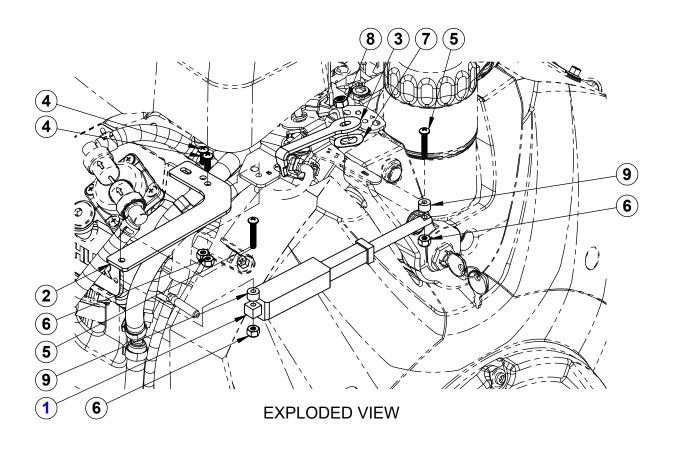
40-2-00285 ASSY, KOHLER ECH980 SELF CONTAINED POWER SYSTEM			
ITEM	PART NUMBER	DESCRIPTION	QTY.
1	40-2-00372	Assy, Pump, Fixed Gear 2-Bolt 16GPM	1
2	50-2-00179	ASSEMBLY, PUMP MOUNT, KOHLER CH980	1
3	90-10-0821-SS	Bolt, Hex 3/8-16 x 2 18-8 (S/S)	4
4	90-13-2577-SS	Nut, Nylock 3/8-16 18-8 (S/S)	4
5	90-14-0043-SS	Washer, Flat 3/8 (SAE) (S/S)	8
6	90-40-0012	Engine, Kohler ECH980 EFI	1
7	90-40-1013	Muffler, Starter Side Exhaust	1
8	90-51-0004	Engine Oil, 10W-30 (Qts)	2

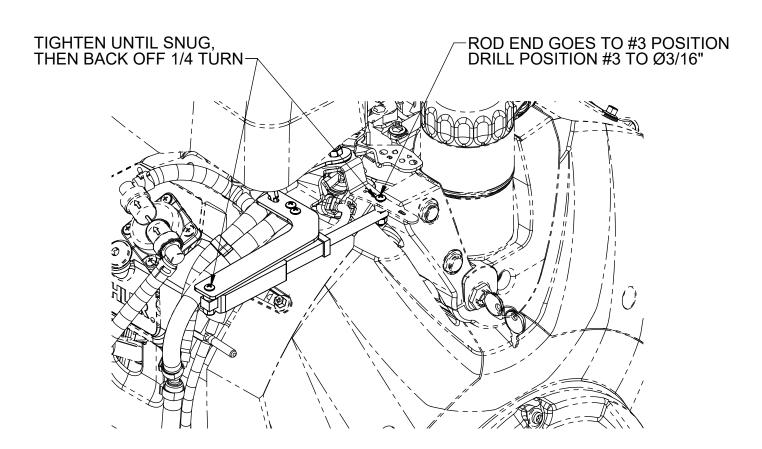
- 1. * The items indicated are shown for reference only, and must be assembled during final assembly.
- 2. ** The assemblies indicated are for illustrative purposes only and are not intended to be assembled in this sequence.
- 3. Apply small amount of anti-seize to threads on Oxygen sensor, thread into the muffler and connect the harness into the engine (not pictured). Zip tie harness back to oil dipstick tube.
- 4. Fill engine with oil before attempting to start.

ELECTRICAL TERMINAL LOCATIONS/CONNECTIONS

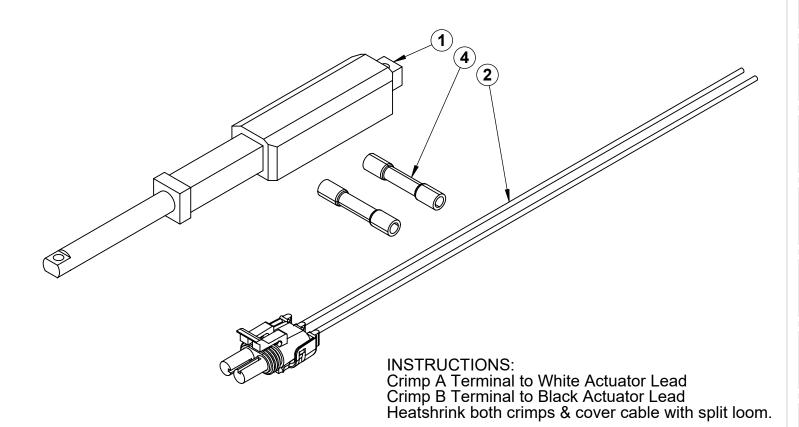




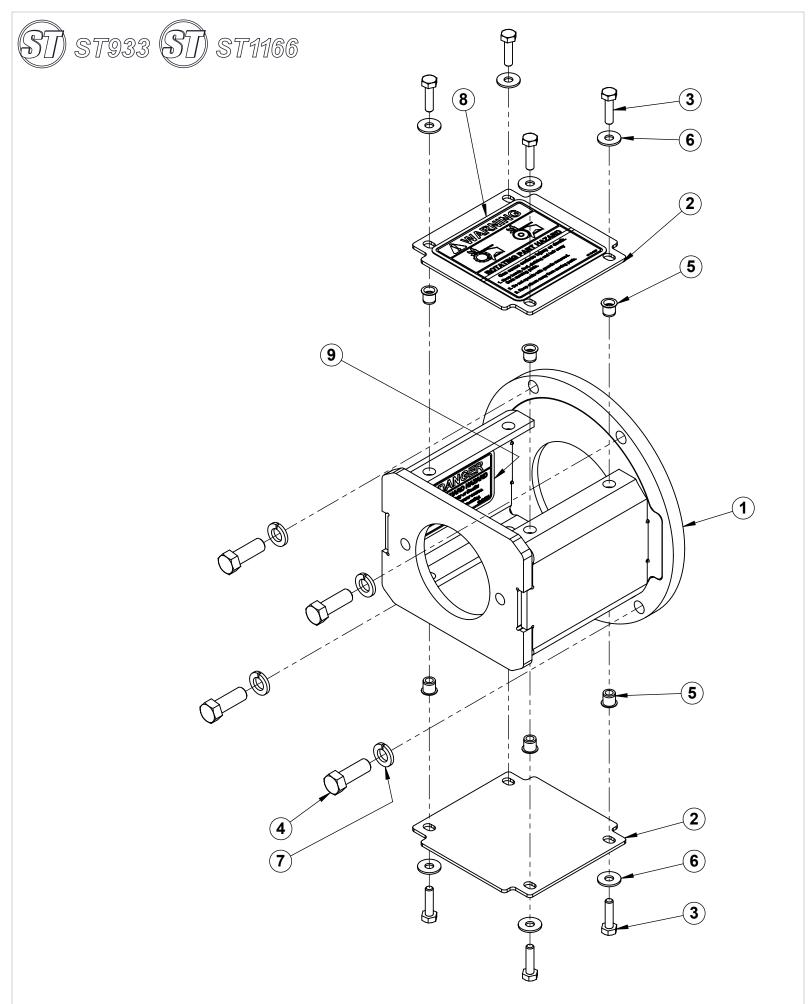




40-2-	40-2-00303 ASSY, ST THROTTLE ACTUATOR AND MOUNTING KIT			
ITEM	PART NUMBER	DESCRIPTION	QTY.	
1	40-2-00327	Assy, Electric Throttle Actuator Wiring	1	
2	40-4-02380	PLATE, THROTTLE ACTUATOR MOUNT	1	
3	40-4-02518	SHEET, THROTTLE ANTI ROTATION	1	
4	90-12-3490-SS	Screw, Pan Head #8-32 x 1/2 SS	2	
5	90-12-3514-SS	Bolt, 8-32 x 1" Phillips Drive Pan Head 18-8 SS Machine Screw	2	
6	90-13-2537-SS	Nut, Nylock #8-32 SS	4	
7	90-40-1017	Wave Disc Spring	1	
8	90-40-1018	Nut, M6 Nylock (M-647060-S)	1	
9	90-99-0114	Spacer, 3/8"OD x 1/4"L x #8, Nylon #0145749	2	



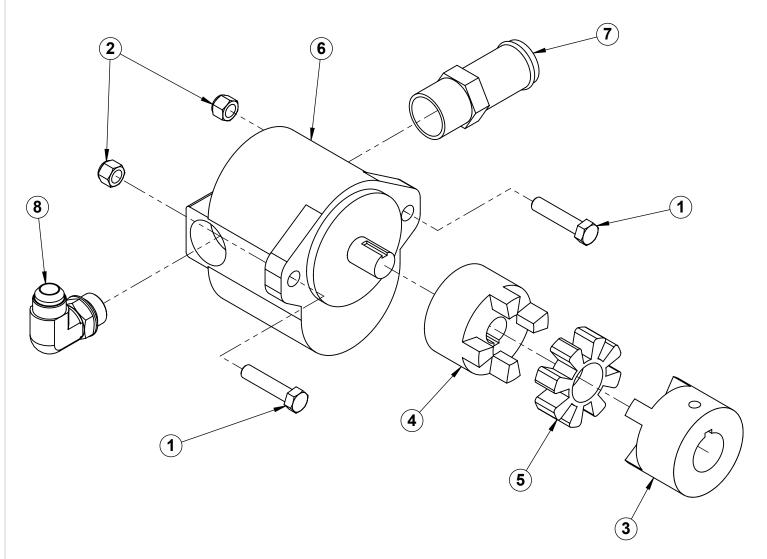
40-2-00327 Assy, Electric Throttle Actuator Wiring				
ITEM	PART NUMBER	DESCRIPTION	QTY.	
1	90-46-2108	Actuator, 5 LB x 2" Stroke (Progressive)	1	
2	90-46-5045	Weather Pack 2 Socket Tower Pig Tail	1	
3	90-46-5046	.350 ID Corrugated Split Loom (FT) (Not Shown)	1.5	
4	90-46-8046	Connector, Butt 22-18 ga Permaseal	2	



Page 148

50-2-	50-2-00179 ASSEMBLY, PUMP MOUNT, KOHLER CH980				
ITEM	PART NUMBER	DESCRIPTION	QTY.	TORQUE (ft-lbs)	
1	50-3-00640	WELDMENT, PUMP MOUNT, KOHLER CH980	1		
2	50-4-02367	SHEET, PUMP COVER - KOHLER CH980	2		
3	90-10-0025	Bolt, Hex 1/4-20 x 1 Gr5 ZP	8		
4	90-10-1245	Bolt, Hex 7/16-14 x 1 1/4 Gr5 ZP	4		
5	90-13-9001	Nut, Rivet 1/4-20	8		
6	90-14-0033	Washer, Flat 1/4 ZP USS	8		
7	90-14-2045	Washer, Split Lock 7/16 ZP	4		
8	90-44-0167	DECAL, ROTATING PARTS HAZARD DECAL	1		
9	90-44-0021	Decal, Danger Missing Guard (2 x 3.5)	1		

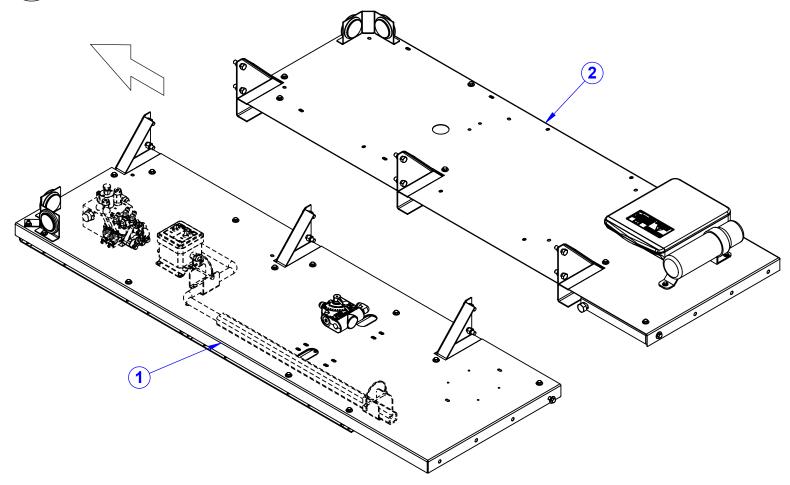




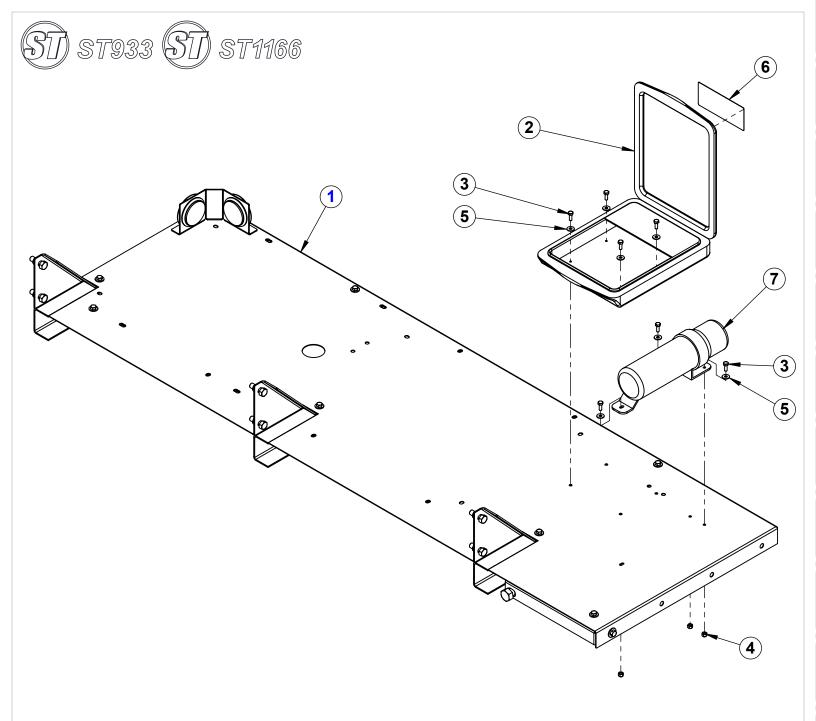
40-2-0	40-2-00372 Assy, Pump, Fixed Gear 2-Bolt 16GPM						
ITEM	PART NUMBER	DESCRIPTION	QTY.	TORQUE (ft-lbs)			
1	90-10-0809	Bolt, Hex 3/8-16 x 1 3/4 Gr5 ZP	2				
2	90-13-2577	Nut, Nylock 3/8-16 Gr5 ZP	2				
3	90-32-2004	Half Coupling, 28/38 PM 1-1/8" Bore - Keyed	1				
4	90-32-2005	Half Coupling, 28/38 PM 3/4" Bore - Keyed	1				
5	90-32-2006	Coupling Insert, 28/38 PM	1				
6	90-35-2003	Pump, Fixed Gear 2-Bolt 16GPM (Eaton 26007-RZC)	1				
7	90-38-0005	Fitting, Straight, 16 MO x 1-1/4 Beaded Hose	1				
8	90-38-0040	Adapter, 90° Elbow, 10 MO x 10 MJ	1				

- * The items indicated are shown for reference only, and must be assembled during final assembly.
 ** The assemblies indicated are for illustrative purposes only and are not intended to be assembled in this sequence.



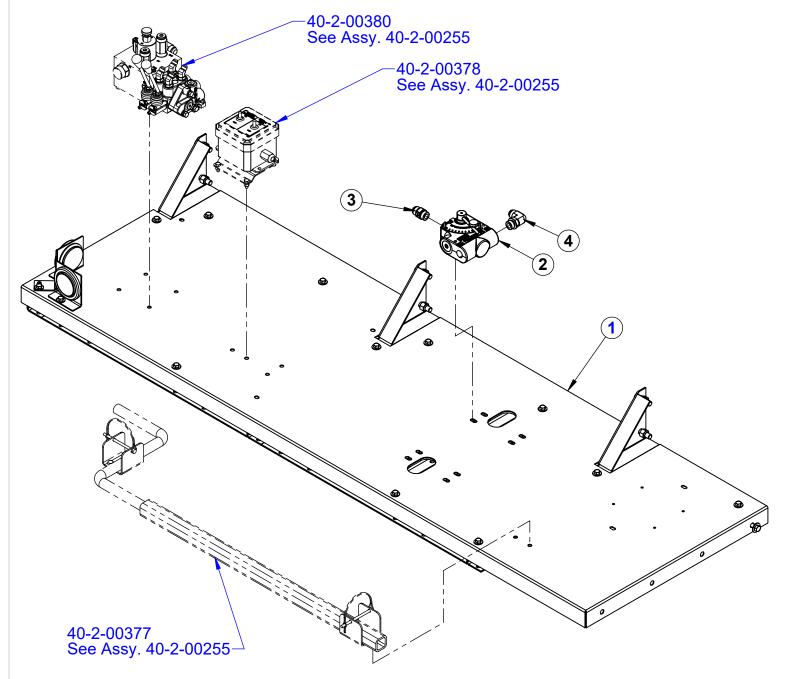


40-2-00241 ASSEMBLY, TRUCK SUPPLIED WET KIT					
ITEM	PART NUMBER	DESCRIPTION	QTY.		
1	40-2-00221	ASSEMBLY, FENDER DRIVER - WET KIT ST	1		
2	40-2-00222	ASSEMBLY, FENDER PASSENGER - WET KIT ST	1		

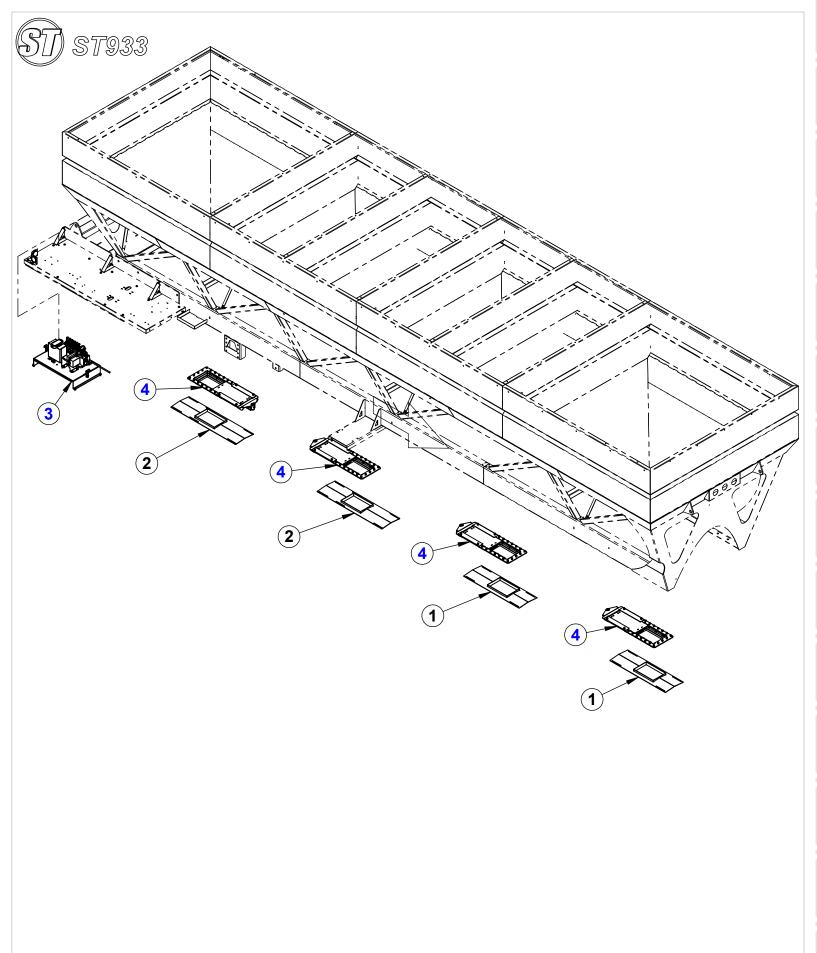


40-2-	40-2-00222 ASSEMBLY, FENDER PASSENGER - WET KIT ST					
ITEM	PART NUMBER	DESCRIPTION	QTY.	TORQUE (ft-lbs)		
1	40-2-00370	Assy, ST Fender Support - Passenger	1			
2	614-3-0165	FLAT MANUAL HOLDER	1			
3	90-10-0013-SS	Bolt, Hex 1/4-20 x 3/4 18-8 (S/S)	7			
4	90-13-2561-SS	Nut, Nylock 1/4-20 18-8 (S/S)	7			
5	90-14-0033-SS	Washer, Flat 1/4 18-8 (S/S)	7			
6	90-44-0295	Decal, Warning - Read and Understand - Manual Holder	1			
7	90-99-0008	MANUAL STORAGE TUBE	1			

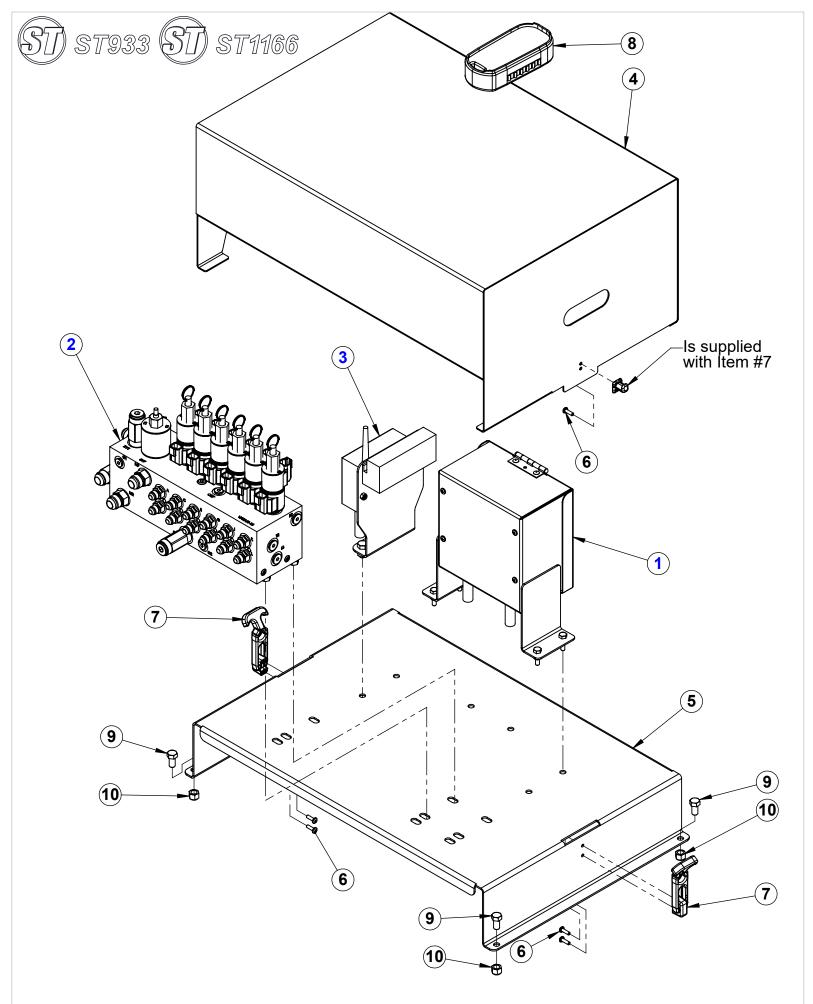




40-2-	40-2-00221 ASSEMBLY, FENDER DRIVER - WET KIT ST						
ITEM	PART NUMBER	DESCRIPTION	QTY.	TORQUE (ft-lbs)			
1	40-2-00371	Assy, ST Fender Support - Driver Side	1				
2	90-36-0003	Control, Flow - 16 GPM (B3030)	1				
3	90-38-0029	Adapter, Straight, 10 MO x 10 MJ	1				
4	90-38-0040	Adapter, 90° Elbow, 10 MO x 10 MJ	1				

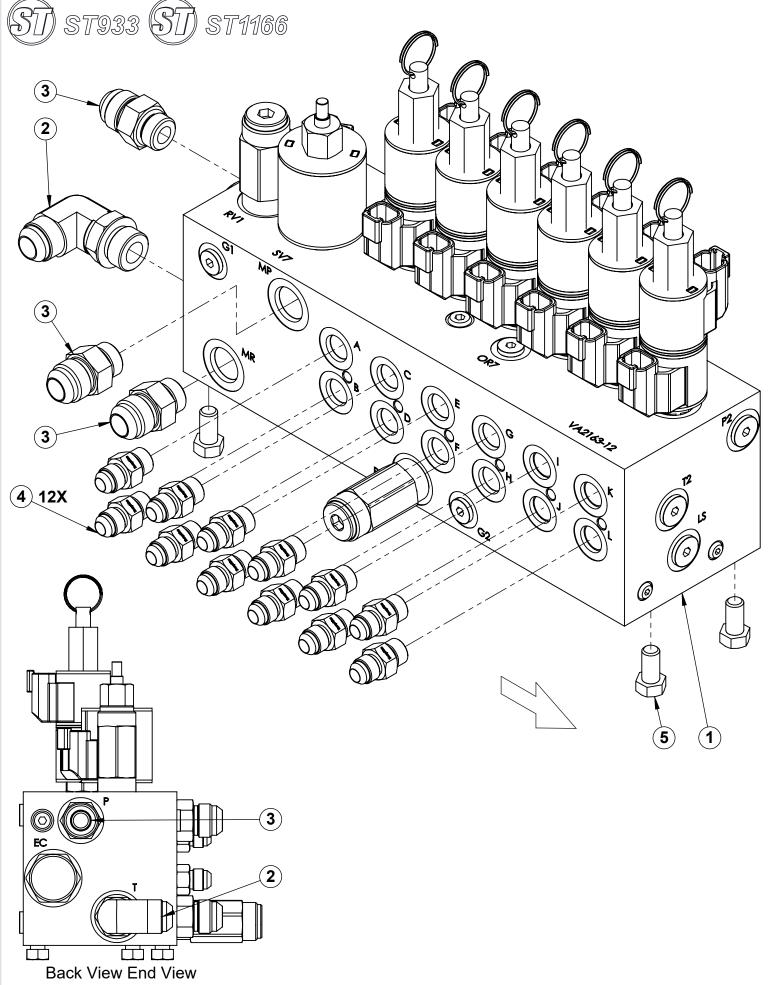


40-2-	00243 ASSEMBLY,	ST933 WIRELESS CONTROL PACKAGE - NO SPLITS		
ITEM	PART NUMBER	DESCRIPTION	QTY.	TORQUE (ft-lbs)
1	20-3-00090	WELDMENT, INLET COVER - ST 900 LARGE GATE	2	
2	20-3-00298	WELDMENT, INLET COVER - ST 933	2	
3	40-2-00205	ASSEMBLY, ST VALVE WITH ENCLOSURE - SS	1	
4	40-2-00208	ASSEMBLY, ST LARGE GATE COMBO - HYDRAULIC	4	



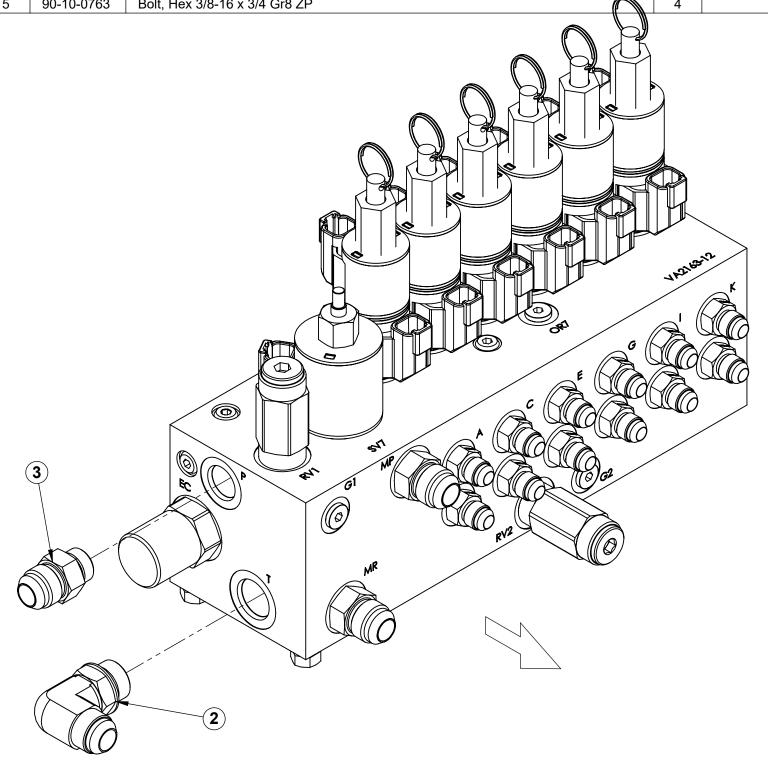
Page 160

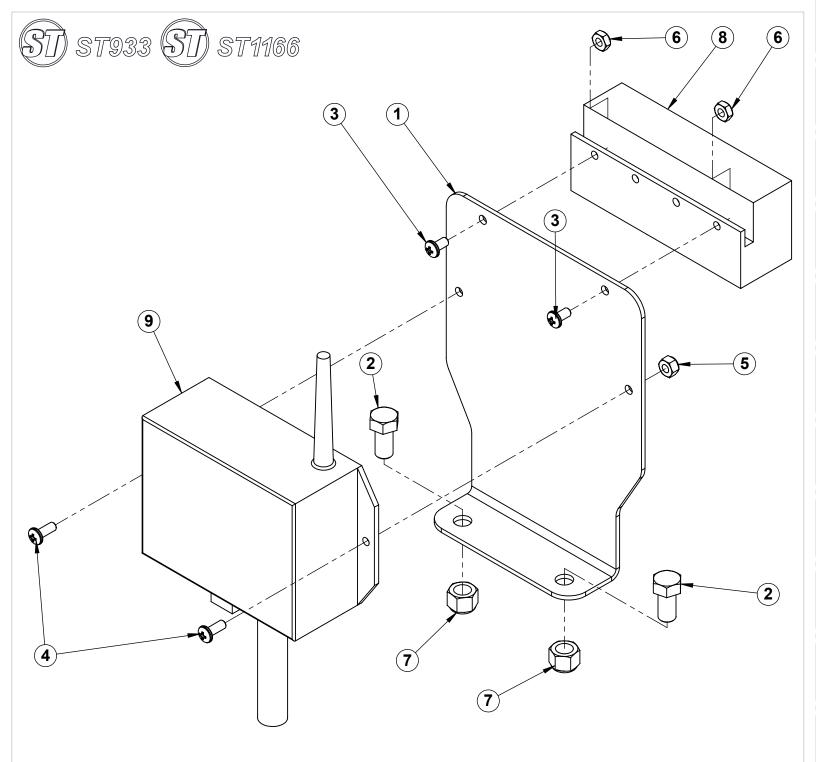
40-2-	-2-00205 ASSEMBLY, ST VALVE WITH ENCLOSURE - SS				
ITEM	PART NUMBER	DESCRIPTION	QTY.	TORQUE (ft-lbs)	
1	40-2-00206	ASSEMBLY, TOP MOUNT SWITCH BOX - SS	1		
2	40-2-00367	Assy, Valve 7 Function Seed Shuttle	1		
3	40-2-00368	Assy, Harness, & 11 Function Wireless System	1		
4	40-3-00552	WELDMENT, LARGE VALVE COVER - SS	1		
5	40-4-02045	SHEET, LARGE VALVE MOUNT - SS	1		
6	90-12-3641	Screw, Pan Head #10-24 x 5/8 SS (Phillips)	6		
7	90-22-0006	Latch, Flexible Draw (Allegis F7-51)	2		
8	90-46-2034	Transmitter, Kar-Tech Mega 22 Button	1		
9	90-10-0761-SS	Bolt, Hex 3/8-16 x 3/4 18-8 (S/S)	4		
10	90-13-2577-SS	Nut, Nylock 3/8-16 18-8 (S/S)	5		



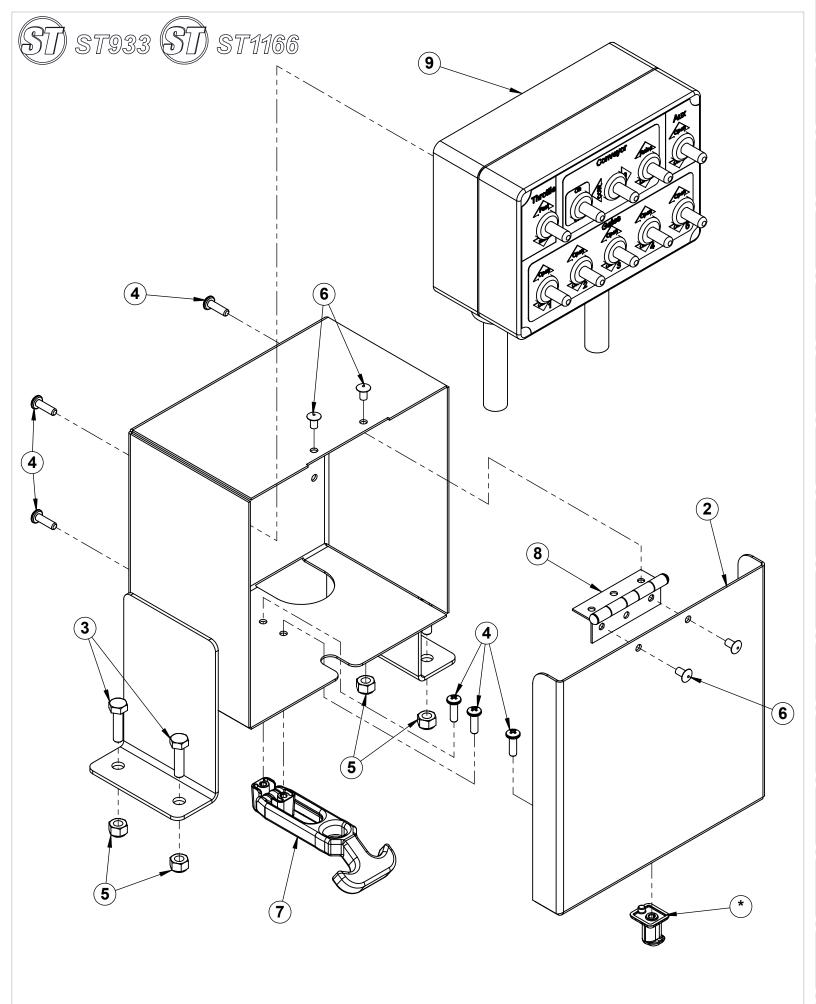
Page 162

40-2-00367 Assy, Valve 7 Function Seed Shuttle					
ITEM	PART NUMBER	DESCRIPTION	QTY.	TORQUE (ft-lbs)	
1	90-36-0010	Valve, 7 Function Seed Shuttle	1		
2	90-38-0040	Adapter, 90° Elbow, 10 MO x 10 MJ	1		
3	90-38-0049	Adapter, Straight, 08 MO x 10 MJ	3		
4	90-38-0259	Adapter, Straight, 06 MO x 06 MJ	12		
5	90-10-0763	Bolt, Hex 3/8-16 x 3/4 Gr8 ZP	4		



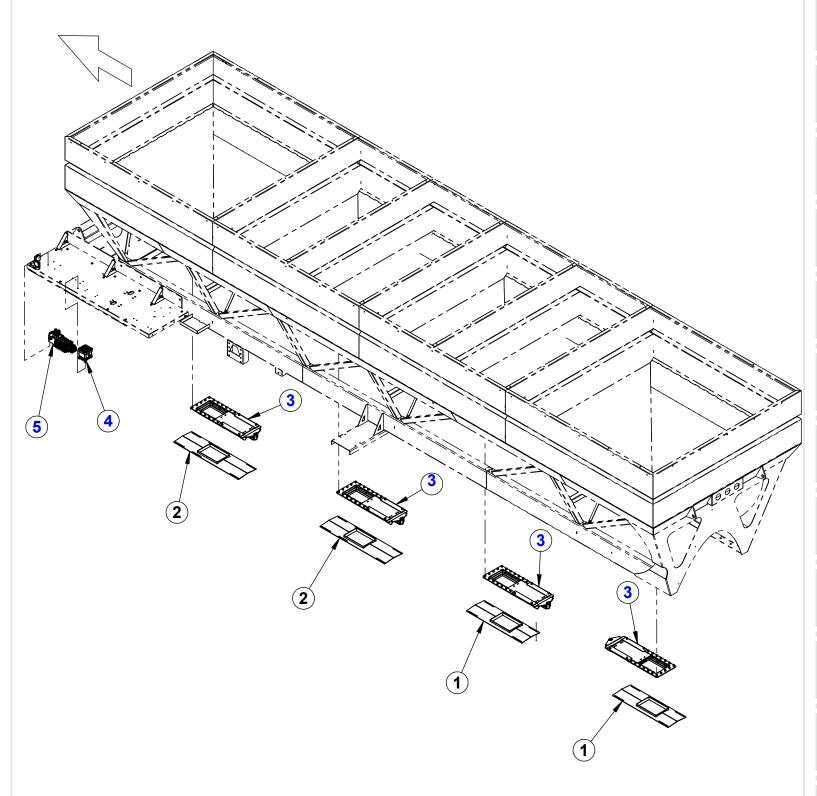


40-2-	40-2-00368 Assy, Harness, & 11 Function Wireless System				
ITEM	PART NUMBER	DESCRIPTION	QTY.	TORQUE (ft-lbs)	
1	40-4-02047	SHEET, RECEIVER MOUNT - SS	1		
2	90-10-0761-SS	Bolt, Hex 3/8-16 x 3/4 18-8 (S/S)	2		
3	90-12-3622	Screw, Pan Head #10-24 x 3/8	2		
4	90-12-3635	Screw, Pan Head #10-24 x 1/2 SS (Phillips)	2		
5	90-13-2546	Nut, Nylock #10-24 Gr5 SS	2		
6	90-13-2547	Nut, Nylock Thin #10-24 S/S	2		
7	90-13-2577-SS	Nut, Nylock 3/8-16 18-8 (S/S)	2		
8	90-46-1023	Wire Harness, 11 Function Wireless System	1		
9	90-46-2035	Receiver, VC-134 21 Function	1		



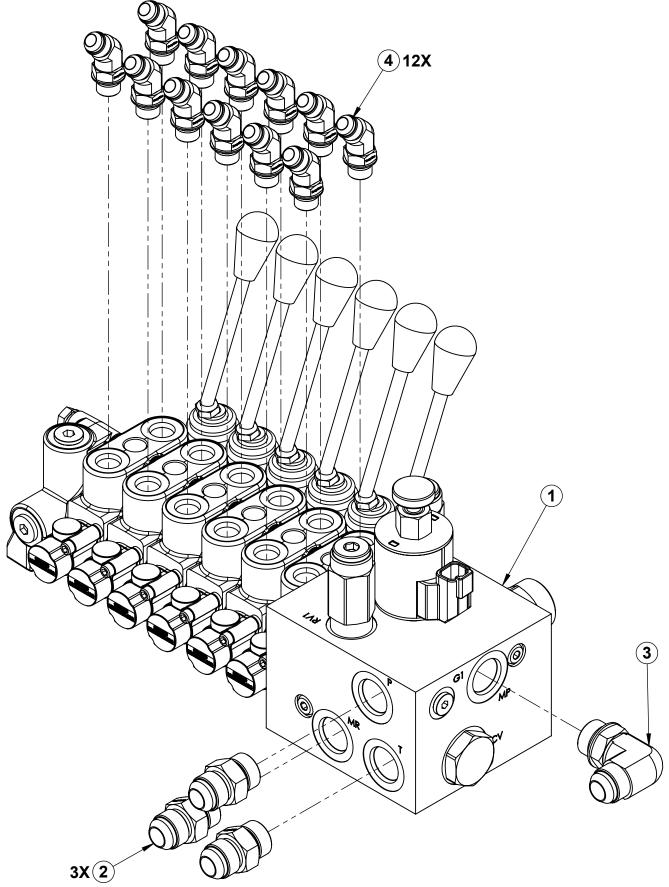
40-2-	00206 ASSEMBLY	, TOP MOUNT SWITCH BOX - SS		
ITEM	PART NUMBER	DESCRIPTION	QTY.	TORQUE (ft-lbs)
1	40-3-00553	WELDMENT, TOP MOUNT SWITCH BOX - SS	1	
2	40-4-02051	SHEET, SWITCH BOX COVER - SS	1	
3	90-10-0025-SS	Bolt, Hex 1/4-20 x 1 18-8 (S/S)	4	
4	90-12-3641	Screw, Pan Head #10-24 x 5/8 SS (Phillips)	7	
5	90-13-2561-SS	Nut, Nylock 1/4-20 18-8 (S/S)	4	
6	90-15-0002	Rivet, Blind 3/16", 0.062"-0.125" Mat. ZP	4	
7	90-22-0006	Latch, Flexible Draw (Allegis F7-51)	1	
8	90-22-4001	Hinge, Drive Guard (10-3-00288)	1	
9	90-46-2036	Switch Box, 10 Function (power systems EA1779-P1 REV X1)	1	





40-2-00262 ASSEMBLY, ST933 MANUAL HYD CONTROL PACKAGE				
ITEM	PART NUMBER	DESCRIPTION	QTY.	
1	20-3-00090	WELDMENT, INLET COVER - ST 900 LARGE GATE	2	
2	20-3-00298	WELDMENT, INLET COVER - ST 933	2	
3	40-2-00208	ASSEMBLY, ST LARGE GATE COMBO - HYDRAULIC	4	
4	40-2-00378	Assy, Control Box Mount	1	
5	40-2-00381	Assy, Manual Valve Tender Combination-6 Spool	1	

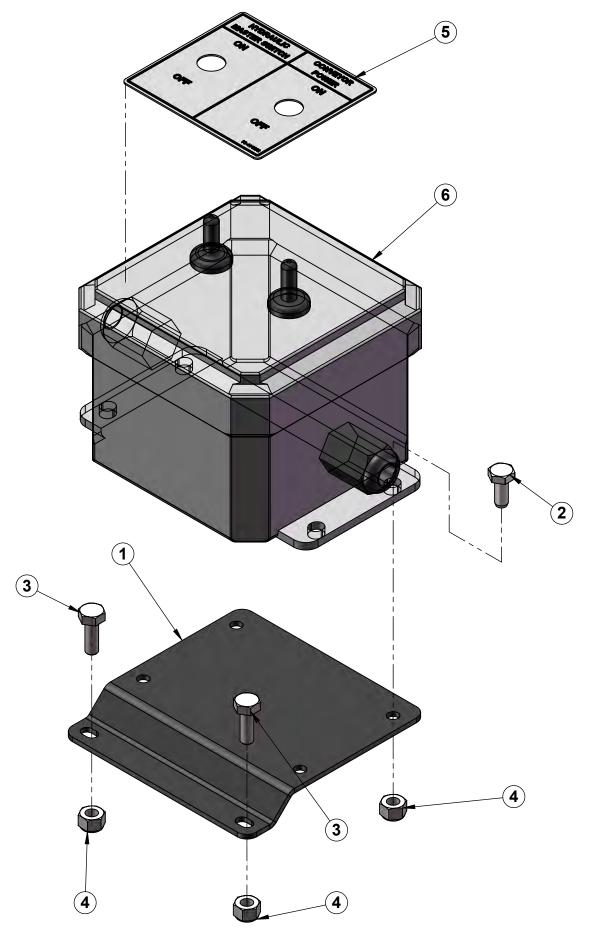




40-2-00381 Assy, Manual Valve Tender Combination-6 Spool			
ITEM	PART NUMBER	DESCRIPTION	QTY.
1	90-36-0065	Valve, Manual Tender Combination - 6 Spool	1
2	90-38-0029	Adapter, Straight, 10 MO x 10 MJ	3
3	90-38-0040	Adapter, 90° Elbow, 10 MO x 10 MJ	1
4	90-38-0228	Adapter, 45° Elbow, 06 MO x 06 MJ	12

- 1. * The items indicated are shown for reference only, and must be assembled during final assembly.
- 2. ** The assemblies indicated are for illustrative purposes only and are not intended to be assembled in this sequence.

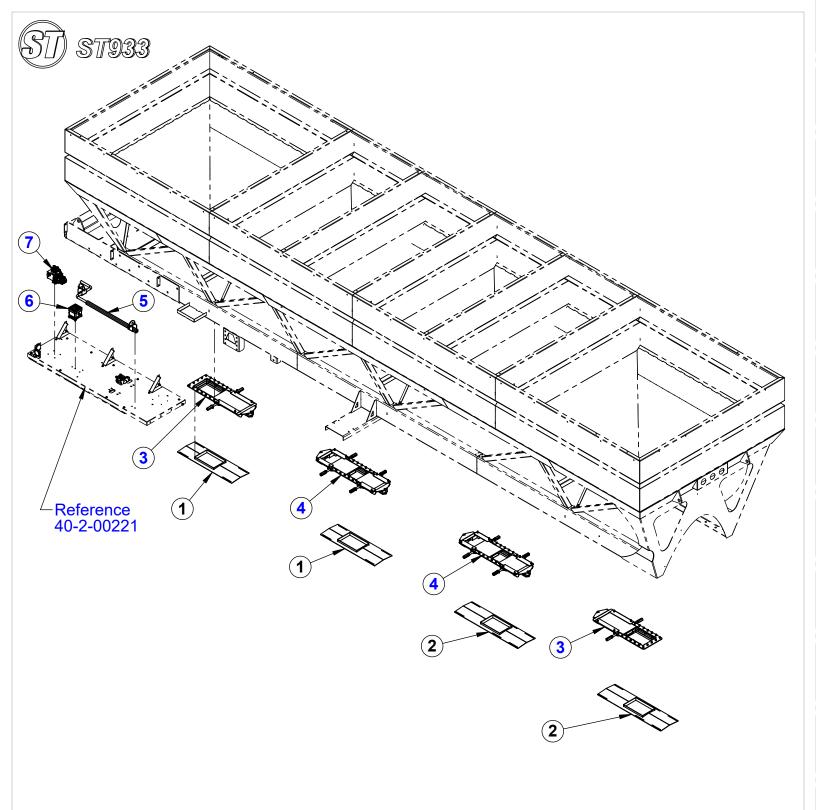




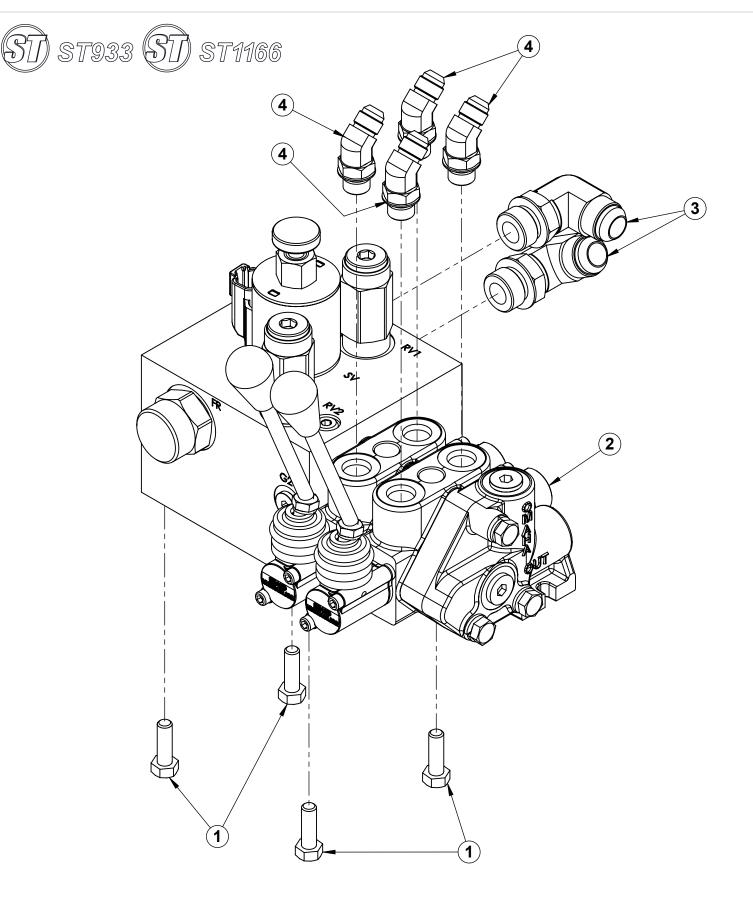
Page 172

40-2-	40-2-00378 Assy, Control Box Mount			
ITEM	PART NUMBER	DESCRIPTION	QTY.	TORQUE (ft-lbs)
1	40-4-01138	BRACKET, CONTROL BOX MOUNT	1	
2	90-10-0009	Bolt, Hex 1/4-20 x 5/8 Gr5 ZP	1	
3	90-10-0013-SS	Bolt, Hex 1/4-20 x 3/4 18-8 (S/S)	2	
4	90-13-2561-SS	Nut, Nylock 1/4-20 18-8 (S/S)	3	
5	90-44-0292	Decal, Notice - Power - Conveyor Power On/Off	1	
6	90-46-2024	Reciever, Control Box with Switch and Transmitter	1	

- * The items indicated are shown for reference only, and must be assembled during final assembly.
 ** The assemblies indicated are for illustrative purposes only and are not intended to be assembled in this sequence.

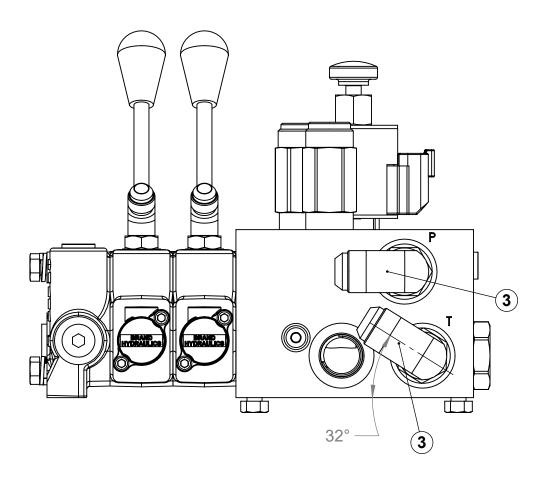


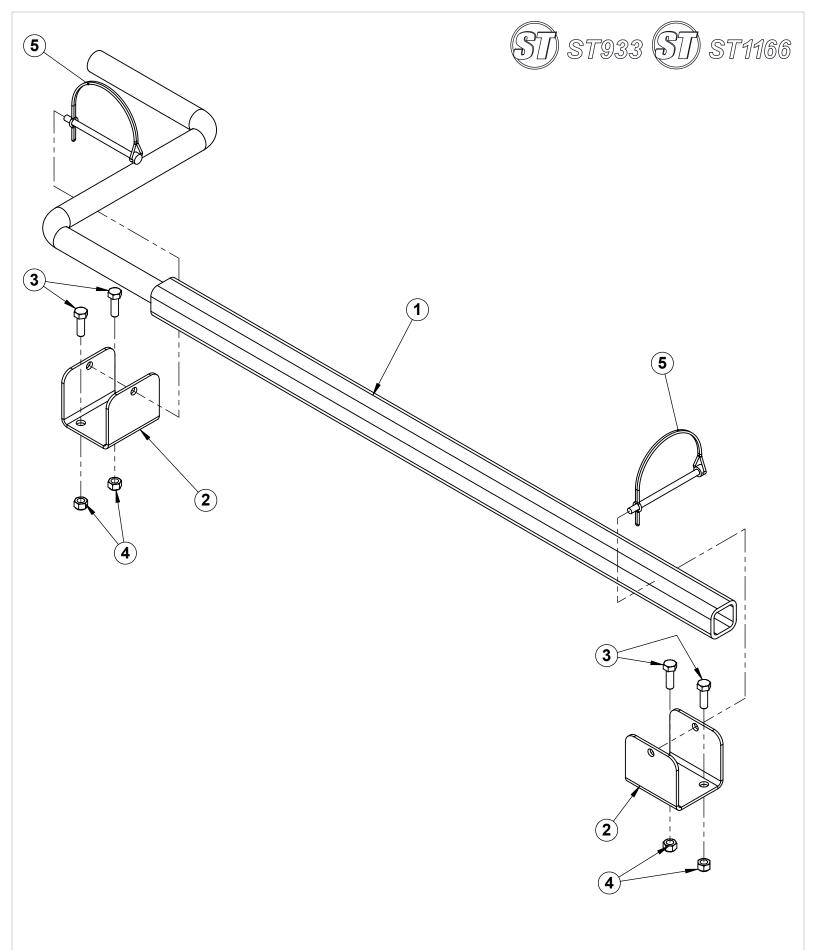
40-2-00255 ASSEMBLY, ST933 MANUAL CONTROL PACKAGE - STD SPLIT #2, 3			
ITEM	PART NUMBER	DESCRIPTION	QTY.
1	20-3-00090	WELDMENT, WELDMENT, INLET COVER - ST 900 LARGE GATE	2
2	20-3-00298	WELDMENT, INLET COVER - ST 933	2
3	40-2-00217	ASSEMBLY, ST LARGE GATE NEW - RACK & PINION	2
4	40-2-00218	ASSEMBLY, ST LARGE GATE COMBO STANDARD SPLIT - RACK & PINION	2
5	40-2-00377	Assy, ST Gate Handle Rack & Pinion	1
6	40-2-00378	Assy, Control Box Mount	1
7	40-2-00380	Assy, Manual Valve Tender Combination-2 Spool	1



40-2-0	40-2-00380 Assy, Manual Valve Tender Combination-2 Spool			
ITEM	PART NUMBER	DESCRIPTION	QTY.	TORQUE (ft-lbs)
1	90-10-0405-SS	Bolt, Hex 5/16-18 x 1 SS	4	
2	90-36-0027	Valve, Manual Tender Combination - 2 Spool	1	
3	90-38-0040	Adapter, 90° Elbow, 10 MO x 10 MJ	2	
4	90-38-0228	Adapter, 45° Elbow, 06 MO x 06 MJ	4	

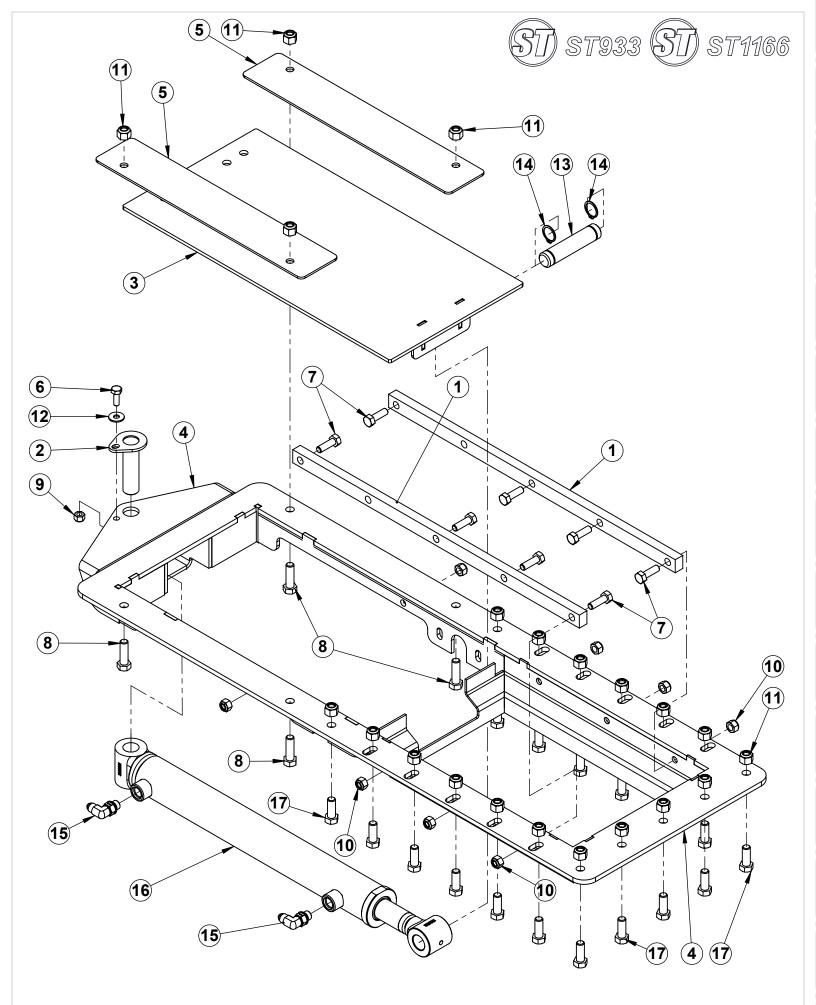
- 1. * The items indicated are shown for reference only, and must be assembled during final assembly.
- 2. ** The assemblies indicated are for illustrative purposes only and are not intended to be assembled in this sequence.





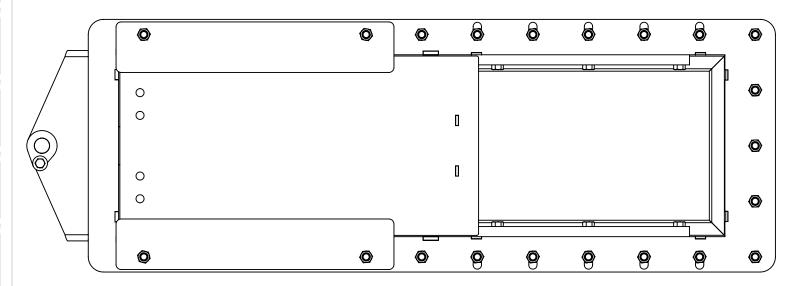
40-2-	40-2-00377 Assy, ST Gate Handle Rack & Pinion			
ITEM	PART NUMBER	DESCRIPTION	QTY.	TORQUE (ft-lbs)
1	40-3-00340	WELDMENT, ST GATE HANDLE - RACK & PINION	1	, ,
2	40-4-01992	BRACKET, LADDER FRONT - STAINLESS	2	
3	90-10-0405-SS	Bolt, Hex 5/16-18 x 1 SS	4	
4	90-13-2569-SS	Nut, Nylock 5/16-18 18-8 (S/S)	4	
5	90-16-4002	Pin, Snapper 1/4 x 3-1/2 (Usable Length)	2	

- 1. * The items indicated are shown for reference only, and must be assembled during final assembly.
- 2. ** The assemblies indicated are for illustrative purposes only and are not intended to be assembled in this sequence.

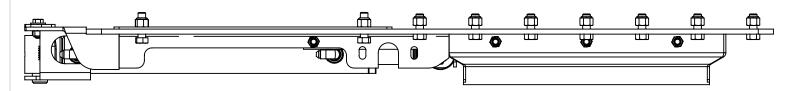


Page 180

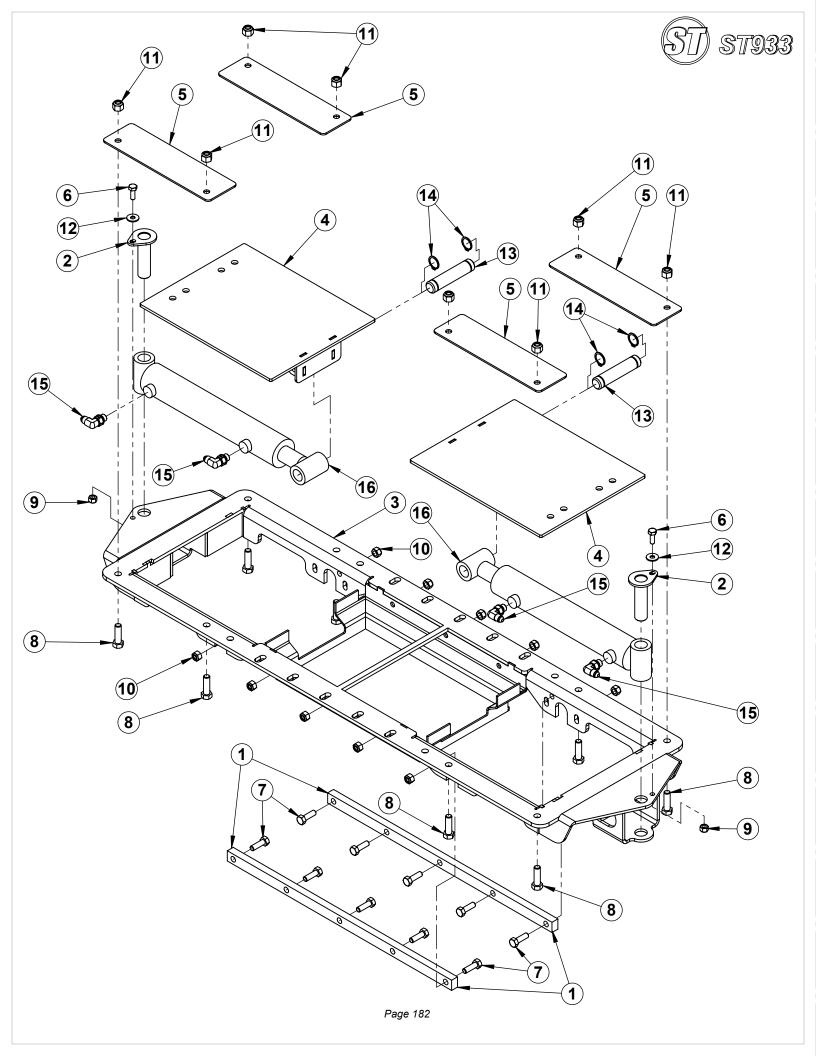
40-2-	40-2-00208 ASSEMBLY, ST LARGE GATE COMBO - HYDRAULIC					
ITEM	PART NUMBER	DESCRIPTION	QTY.	TORQUE (ft-lbs)		
1	30-4-00174	UHMW, BIN GATE SLIDE BEARING	2	. ,		
2	40-3-00335	WELDMENT, CYLINDER MOUNT PIN	1			
3	40-3-00562	WELDMENT, GATE BLADE - HYDRAULIC	1			
4	40-3-00563	WELDMENT, ST GATE DISCHARGE - RACK & PINION/HYD	1			
5	40-4-01431	SHEET, GATE HOLD DOWN FLAT	2			
6	90-10-0013-SS	Bolt, Hex 1/4-20 x 3/4 18-8 (S/S)	1			
7	90-10-0405-SS	Bolt, Hex 5/16-18 x 1 SS	8			
8	90-10-0781-SS	Bolt, Hex 3/8-16 x 1-1/4 18-8 (S/S)	4			
9	90-13-2561-SS	Nut, Nylock 1/4-20 18-8 (S/S)	1			
10	90-13-2569-SS	Nut, Nylock 5/16-18 18-8 (S/S)	8			
11	90-13-2577-SS	Nut, Nylock 3/8-16 18-8 (S/S)	21			
12	90-14-0033-SS	Washer, Flat 1/4 18-8 (S/S)	1			
13	90-16-3390	PIN, 3/4 X 3-1/2	1			
14	90-16-4513	Ring, Snap .75" External SS	2			
15	90-38-0114	Adapter, 90° Elbow, 06 MJ x 06 MO	2			
16	90-39-0133	Cylinder, 1.5" x 12" Cross Tube (3000 PSI) Monarch	1			
17	90-10-0769-SS	Bolt, Hex 3/8-16 x 1 18-8 (S/S)	17			



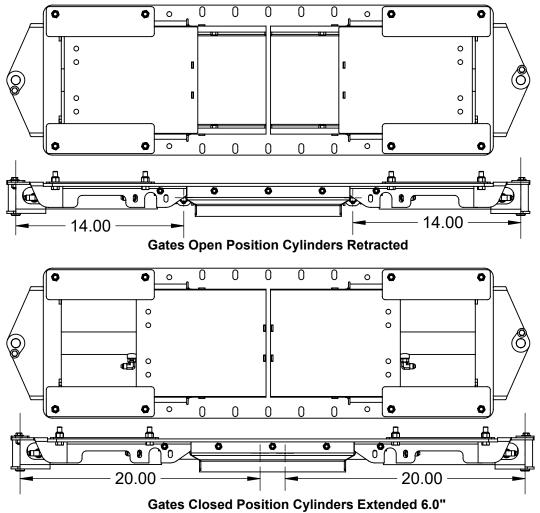
Assembled Top View

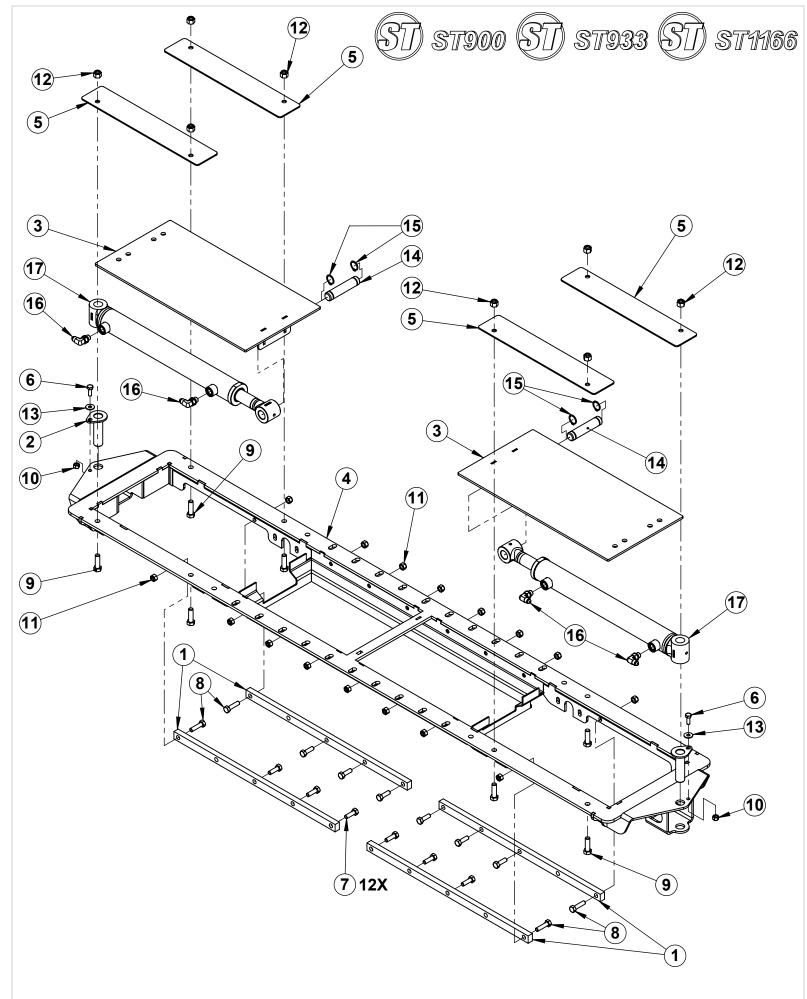


Assembled Side View



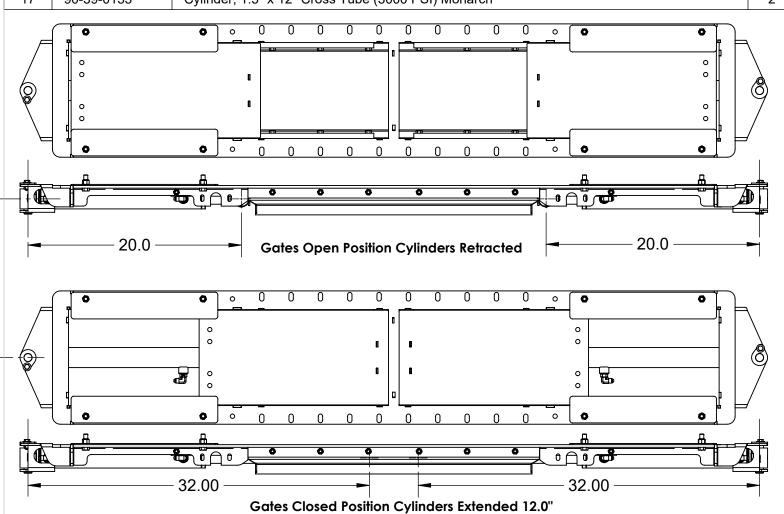
40-2-0	40-2-00216 ASSEMBLY, ST LARGE GATE COMBO STANDARD SPLIT - HYDRAULIC			
ITEM	PART NUMBER	DESCRIPTION	QTY.	
1	30-4-00174	UHMW, BIN GATE SLIDE BEARING	2	
2	40-3-00335	WELDMENT, CYLINDER MOUNT PIN	2	
3	40-3-00590	WELDMENT, ST GATE DISCHARGE STANDARD SPLIT - RACK & PINION/HYD	1	
4	40-3-00591	WELDMENT, STANDARD SPLIT GATE BLADE - HYDRAULIC	2	
5	40-4-01665	SHEET, GATE HOLD DOWN SPLIT - 9 X 14	4	
6	90-10-0013-SS	Bolt, Hex 1/4-20 x 3/4 18-8 (S/S)	2	
7	90-10-0405-SS	Bolt, Hex 5/16-18 x 1 SS	10	
8	90-10-0781-SS	Bolt, Hex 3/8-16 x 1-1/4 18-8 (S/S)	8	
9	90-13-2561-SS	Nut, Nylock 1/4-20 18-8 (S/S)	2	
10	90-13-2569-SS	Nut, Nylock 5/16-18 18-8 (S/S)	10	
11	90-13-2577-SS	Nut, Nylock 3/8-16 18-8 (S/S)	8	
12	90-14-0033-SS	Washer, Flat 1/4 18-8 (S/S)	2	
13	90-16-3390	PIN, 3/4 X 3-1/2	2	
14	90-16-4513	Ring, Snap .75" External SS	4	
15	90-38-0114	Adapter, 90° Elbow, 06 MJ x 06 MO	4	
16	90-39-0028	Cylinder, 1.5" Bore x 6" Stroke Cross Tube	2	
	1			

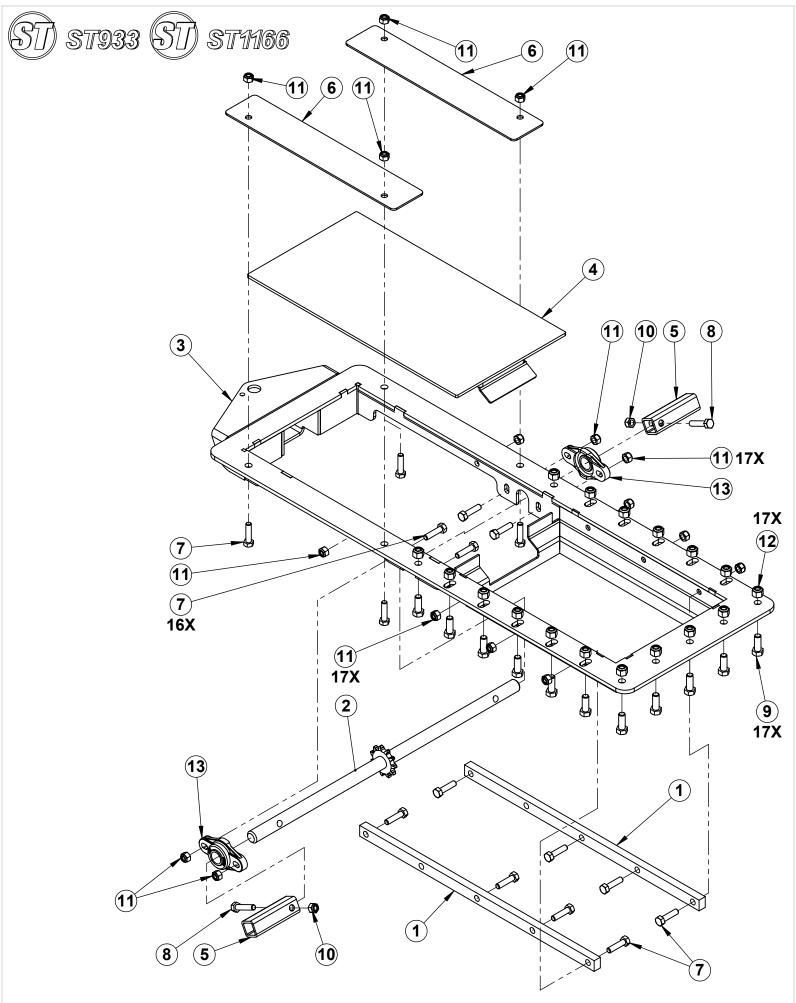




Page 184

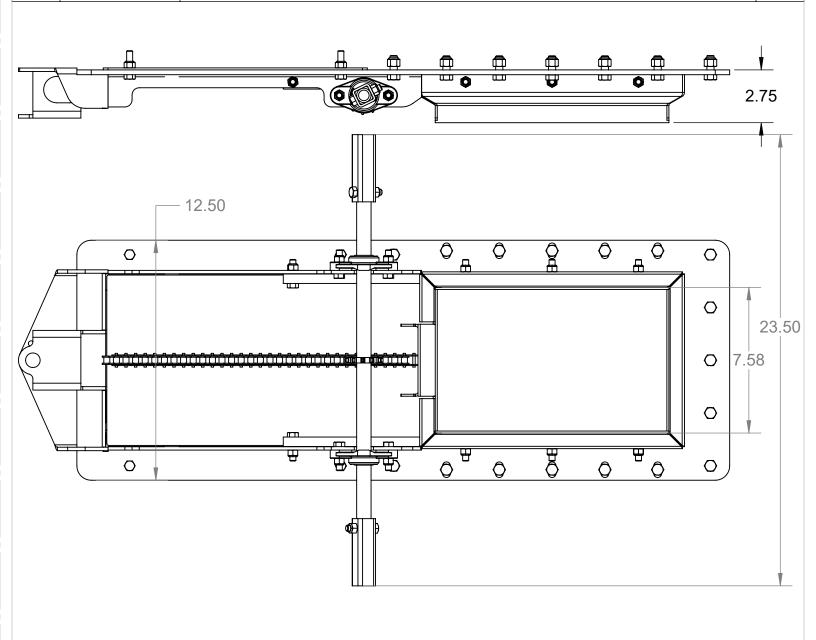
40-2-0	40-2-00214 ASSEMBLY, ST LARGE GATE COMBO FULL SPLIT - HYDRAULIC			
ITEM	PART NUMBER	DESCRIPTION	QTY.	
1	30-4-00174	UHMW, BIN GATE SLIDE BEARING	4	
2	40-3-00335	WELDMENT, CYLINDER MOUNT PIN	2	
3	40-3-00562	WELDMENT, GATE BLADE - HYDRAULIC	2	
4	40-3-00579	WELDMENT, ST GATE DISCHARGE - RACK & PINION/HYD	1	
5	40-4-01431	SHEET, GATE HOLD DOWN FLAT	4	
6	90-10-0013-SS	Bolt, Hex 1/4-20 x 3/4 18-8 (S/S)	2	
7	90-10-0405-SS	Bolt, Hex 5/16-18 x 1 SS	12	
8	90-10-0421-SS	Bolt, Hex 5/16-18 x 1 1/4 SS	4	
9	90-10-0781-SS	Bolt, Hex 3/8-16 x 1-1/4 18-8 (S/S)	8	
10	90-13-2561-SS	Nut, Nylock 1/4-20 18-8 (S/S)	2	
11	90-13-2569-SS	Nut, Nylock 5/16-18 18-8 (S/S)	16	
12	90-13-2577-SS	Nut, Nylock 3/8-16 18-8 (S/S)	8	
13	90-14-0033-SS	Washer, Flat 1/4 18-8 (S/S)	2	
14	90-16-3390	PIN, 3/4 X 3-1/2	2	
15	90-16-4513	Ring, Snap .75" External SS	4	
16	90-38-0114	Adapter, 90° Elbow, 06 MJ x 06 MO	4	
17	90-39-0133	Cylinder, 1.5" x 12" Cross Tube (3000 PSI) Monarch	2	

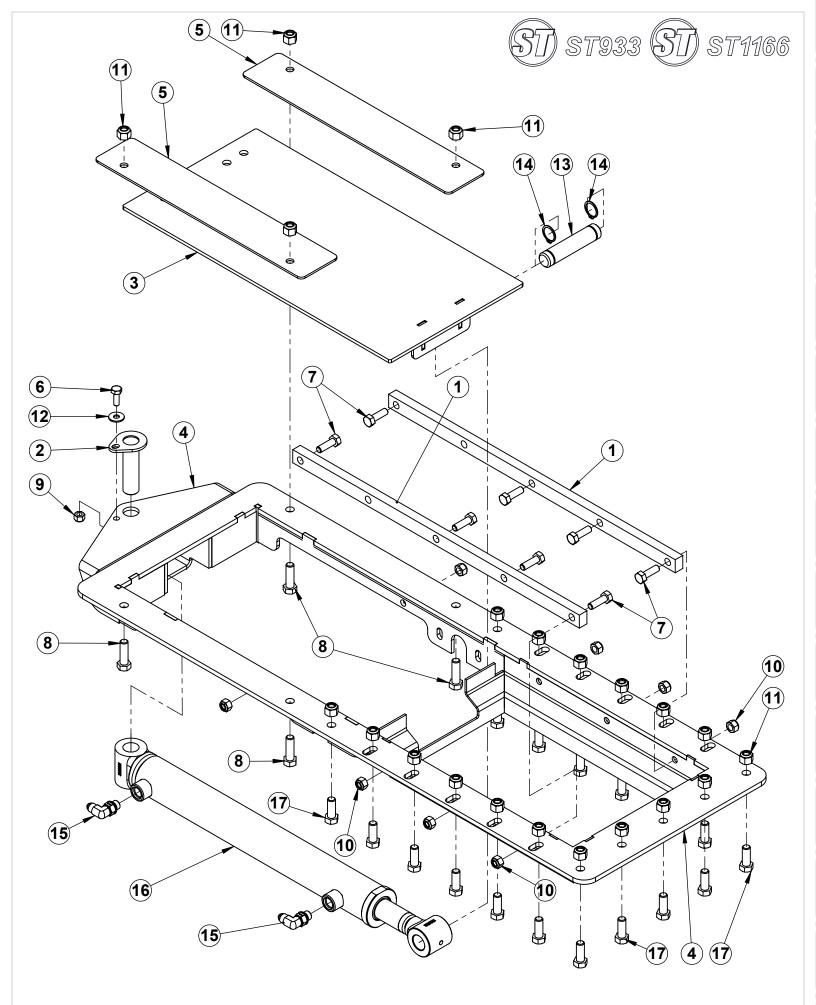




Page 186

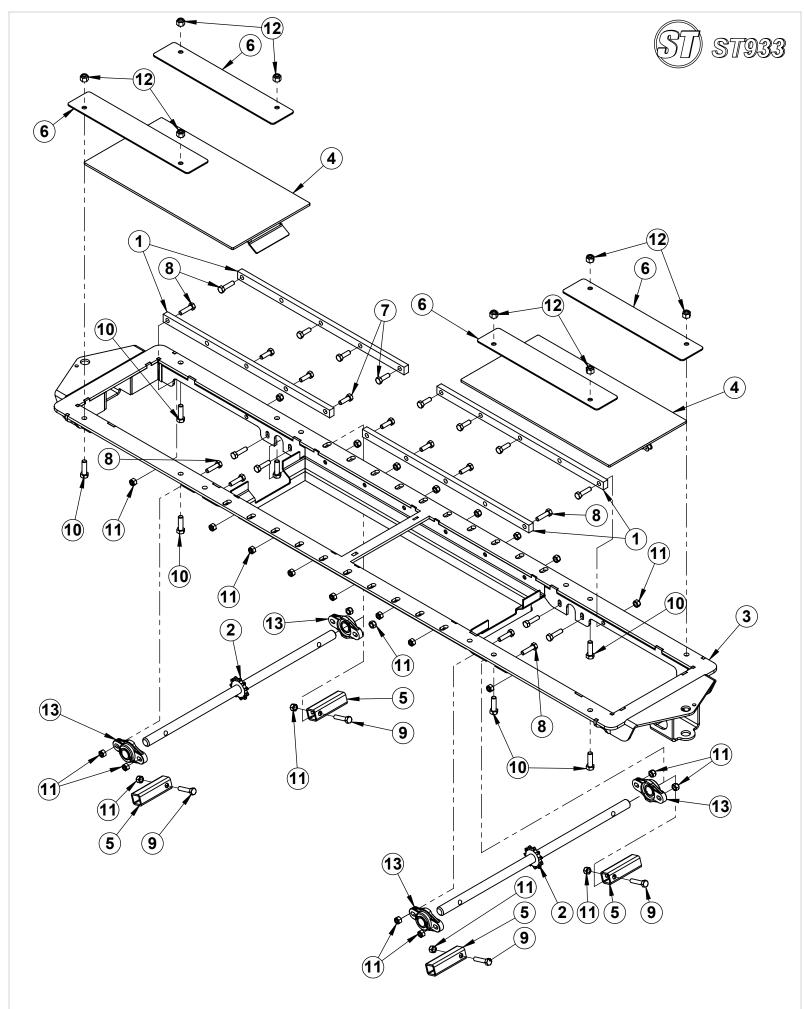
40-2-	40-2-00217 ASSEMBLY, ST LARGE GATE NEW - RACK & PINION			
ITEM	PART NUMBER	DESCRIPTION	QTY.	
1	30-4-00174	UHMW, BIN GATE SLIDE BEARING	2	
2	40-3-00339	WELDMENT, ST GATE RACK SHAFT	1	
3	40-3-00563	WELDMENT, ST GATE DISCHARGE - RACK & PINION/HYD	1	
4	40-3-00599	WELDMENT, ST GATE BLADE NEW - RACK & PINION	1	
5	40-4-01388	TUBING, HANDLE SPUD - ST RACK	2	
6	40-4-01431	SHEET, GATE HOLD DOWN FLAT	2	
7	90-10-0421-SS	Bolt, Hex 5/16-18 x 1 1/4 SS	16	
8	90-10-0429	Bolt, Hex 5/16-18 x 1 1/2 Gr5 ZP	2	
9	90-10-0769-SS	Bolt, Hex 3/8-16 x 1 18-8 (S/S)	17	
10	90-13-2569	Nut, Nylock 5/16-18 Gr5 ZP	2	
11	90-13-2569-SS	Nut, Nylock 5/16-18 18-8 (S/S)	17	
12	90-13-2577-SS	Nut, Nylock 3/8-16 18-8 (S/S)	17	
13	90-24-0027	Bearing, 0.75", 2-Bolt Flange (Igus EFOI-12)	2	





Page 188

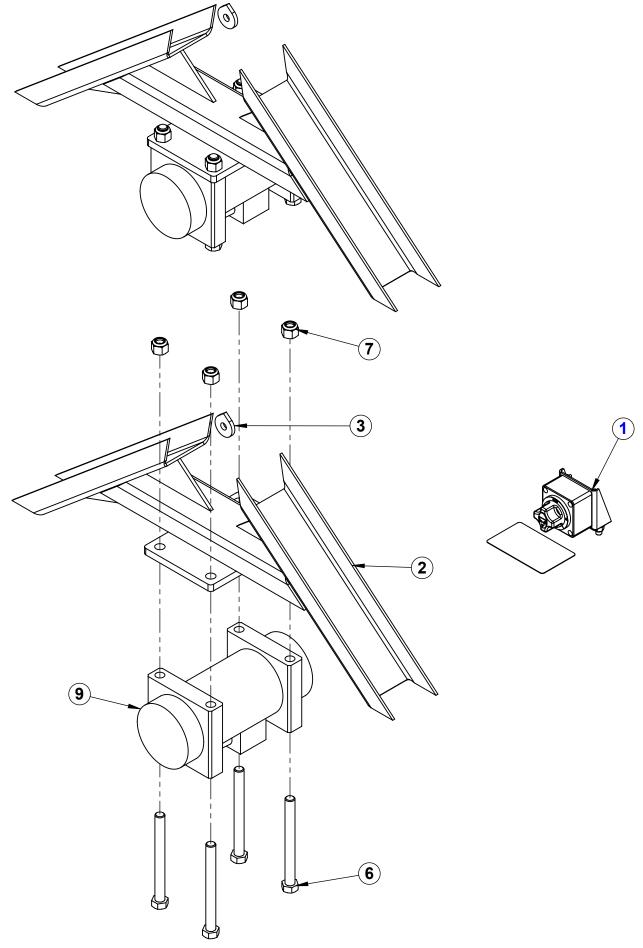
40-2-0	40-2-00218 ASSEMBLY, ST LARGE GATE COMBO STANDARD SPLIT - RACK & PINION			
ITEM	PART NUMBER	DESCRIPTION	QTY.	
1	30-4-00174	UHMW, BIN GATE SLIDE BEARING	2	
2	40-3-00339	WELDMENT, ST GATE RACK SHAFT	2	
3	40-3-00590	WELDMENT, ST GATE DISCHARGE STANDARD SPLIT - RACK & PINION/HYD	1	
4	40-3-00600	WELDMENT, ST GATE BLADE NEW - RACK & PINION	2	
5	40-4-01388	TUBING, HANDLE SPUD - ST RACK	4	
6	40-4-01665	SHEET, GATE HOLD DOWN SPLIT - 9 X 14	4	
7	90-10-0421-SS	Bolt, Hex 5/16-18 x 1 1/4 SS	22	
8	90-10-0429	Bolt, Hex 5/16-18 x 1 1/2 Gr5 ZP	4	
9	90-10-0769-SS	Bolt, Hex 3/8-16 x 1 18-8 (S/S)	14	
10	90-13-2569-SS	Nut, Nylock 5/16-18 18-8 (S/S)	26	
11	90-13-2577-SS	Nut, Nylock 3/8-16 18-8 (S/S)	14	
12	90-24-0027	Bearing, 0.75", 2-Bolt Flange (Igus EFOI-12)	4	



Page 190

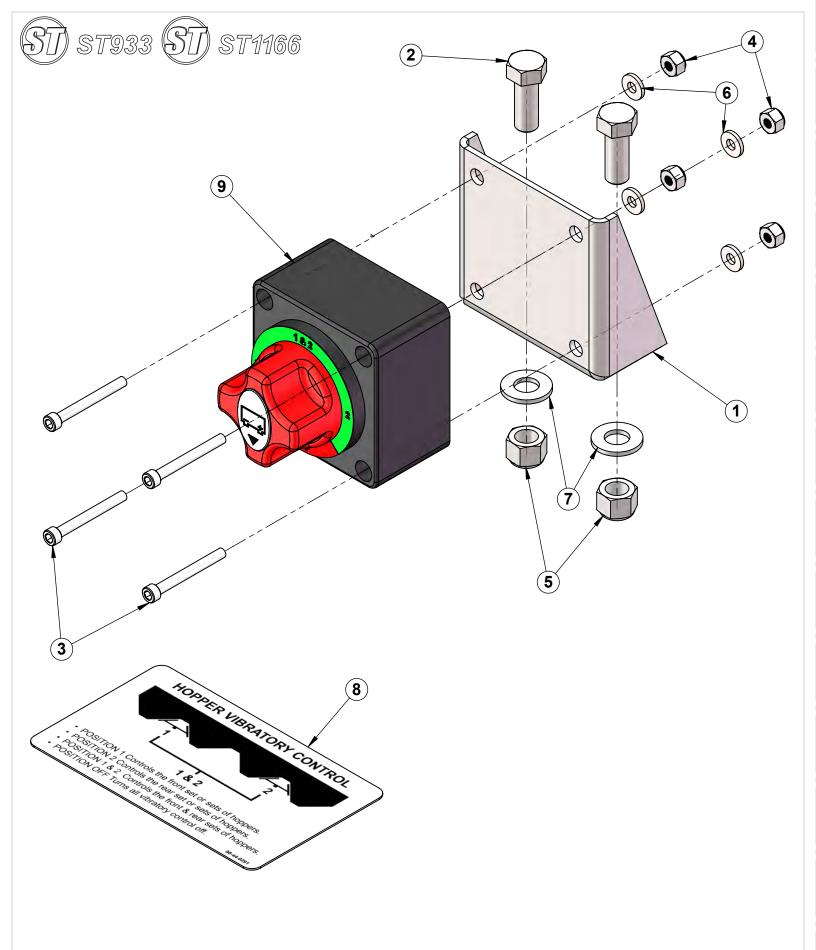
40-2-0	40-2-00220 ASSEMBLY, ST LARGE GATE COMBO FULL SPLIT - RACK & PINION			
ITEM	PART NUMBER	DESCRIPTION	QTY.	
1	30-4-00174	UHMW, BIN GATE SLIDE BEARING	4	
2	40-3-00339	WELDMENT, ST GATE RACK SHAFT	2	
3	40-3-00579	WELDMENT, ST GATE DISCHARGE - RACK & PINION/HYD	1	
4	40-3-00599	WELDMENT, ST GATE BLADE NEW - RACK & PINION	2	
5	40-4-01388	TUBING, HANDLE SPUD - ST RACK	4	
6	40-4-01431	SHEET, GATE HOLD DOWN FLAT	4	
7	90-10-0405-SS	Bolt, Hex 5/16-18 x 1 SS	12	
8	90-10-0421-SS	Bolt, Hex 5/16-18 x 1 1/4 SS	12	
9	90-10-0429	Bolt, Hex 5/16-18 x 1 1/2 Gr5 ZP	4	
10	90-10-0781-SS	Bolt, Hex 3/8-16 x 1-1/4 18-8 (S/S)	8	
11	90-13-2569-SS	Nut, Nylock 5/16-18 18-8 (S/S)	28	
12	90-13-2577-SS	Nut, Nylock 3/8-16 18-8 (S/S)	8	
13	90-24-0027	Bearing, 0.75", 2-Bolt Flange (Igus EFOI-12)	4	





Page 192

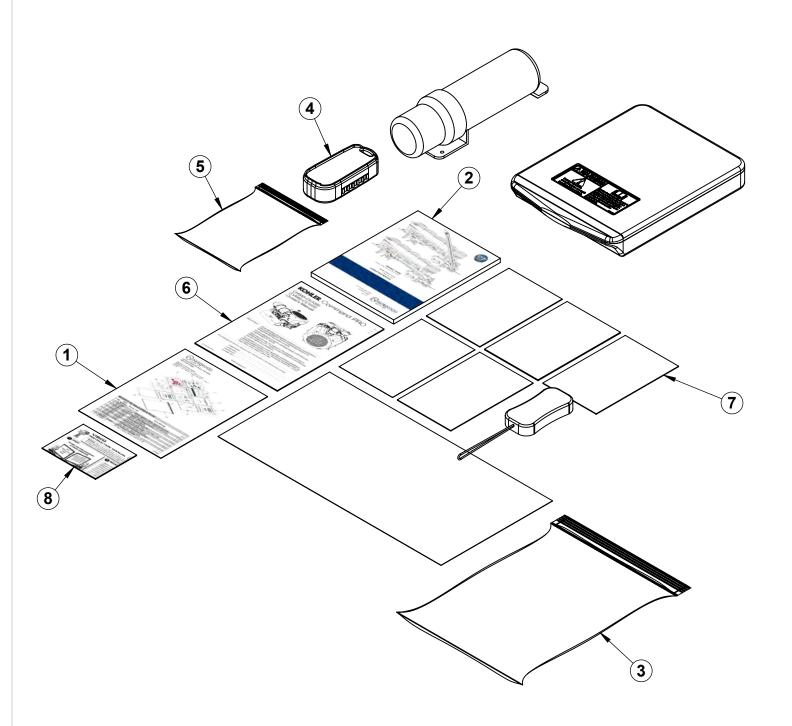
40-2-	40-2-00249 ASSEMBLY, ST VIBCO - 933 DOUBLE						
ITEM	ITEM PART NUMBER DESCRIPTION						
1	40-2-00379	Assy, Switch, Selector Vibratory Control	1				
2	40-3-00238	WELDMENT, VIBCO MOUNT - 4 COMPART 24FT	2				
3	40-4-01980	PLATE, VIBCO SAFETY TAB	2				
4	40-4-02341	WIRE, 14/2 JACKETED - VIBCO - 140" (Not Shown)	1				
5	40-4-02342	WIRE, 14/2 JACKETED - VIBCO - 330" (Not Shown)	1				
6	90-10-2401	Bolt, Hex 5/8-11 x 6 1/2 Gr8 ZP	8				
7	90-13-2612	Nut, Nylock 5/8-11 Gr8 Magni	8				
8	90-46-1049	Wire Kit, Vibco DC-700, 900, & 1600 - 24V (WK-2-1) (Not Shown)	2				
9	90-46-5010	Vibrator, Vibco DC1600	2				



40-2-	40-2-00379 Assy, Switch, Selector Vibratory Control					
ITEM	PART NUMBER DESCRIPTION					
1	40-4-01969	SHEET, VIBCO CONTROL SWITCH BRACKET	1			
2	90-10-0769-SS	Bolt, Hex 3/8-16 x 1 18-8 (S/S)	2			
3	90-12-3527	Screw, Socket Head #8-32 x 3/4	4			
4	90-13-2537-SS	Nut, Nylock #8-32 SS	4			
5	90-13-2578	Nut, Nylock 3/8-16 SS	2			
6	90-14-0017	Washer, Flat #8 ZP	4			
7	90-14-0043-SS	Washer, Flat 3/8 (SAE) (S/S)	2			
8	90-44-0291	Decal, Notice - Vibrator Control	1			
9	90-46-2042	Switch, Selector A, B, AB	1			

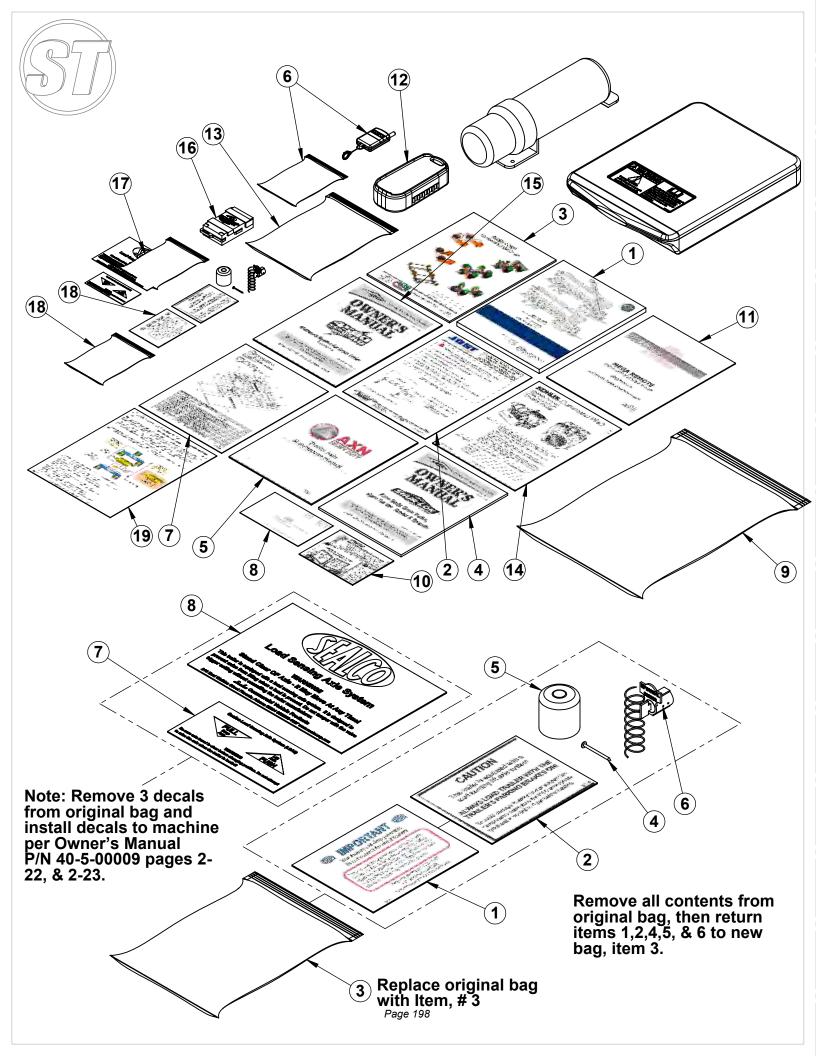
Note:

- 1. * The items indicated are shown for reference only, and must be assembled during final assembly.
- 2. ** The assemblies indicated are for illustrative purposes only and are not intended to be assembled in this sequence.



40-5-0	40-5-00042 Kit, Owners Manuals ST933 & ST1166 (Standard Equipment)				
ITEM	PART NUMBER	DESCRIPTION	QTY.		
1	40-5-00043	Kit, Owners Packing Checklist - ST933 & ST1166	1		
2	40-5-00009	Manual, Operators - Stainless Tender ST933 & ST1166	1		
3	90-25-2005	Bag, Reclosable 12" x 15" x 4Mil (Clear Plastic) S-1306	1		

40-5-	40-5-00042 Kit, Owners Manuals ST933 & ST1166 (Optional Equipment)					
ITEM	PART NUMBER	DESCRIPTION				
4	90-46-2034	nsmitter, Kar-Tech Mega 22 Button				
5	90-25-2006	Bag, Reclosable 6" x 9" x 4Mil (Clear Plastic) S-1712				
6	40-5-00015	Owners Manual, Kohler CH940-CH1000 CV940-CV1000				
7	40-5-00036	Kit, Manuals Agri-Cover				
8	40-5-00012	Manual, Instruction Vibco DC 12 & 24 Volt	1			



40-5-00010 Kit, Owners ST933 & ST1166 (Standard Equipment) - 2018

ITEM	PART NUMBER	Vendor PN	DESCRIPTION	QTY.
1	40-5-00009		Manual, Operators - Stainless Tender ST933 & ST1166	1
2	40-5-00011	LT-LG400-01	Operating Manual For JOST A-400 & A-401 Landing Gear	1
3	40-5-00013	P1203-01	Manual, Cush Suspension	1
4	40-5-00018	1100193	Owners Manual, Shurco Manual Tarp System	1
5	40-5-00021	TMS-MMTA1	Manual, AXN Heavy Duty Trailer Axle	1
6	90-46-2059		Key FOB, Conveyor On/Off	1
7	40-5-00020		Kit, Owners Packing Checklist - ST933 & ST1166	1
8	40-5-00022		Registration Card, ST Tires	1
9	90-25-2005	S-1306	Bag, Reclosable 12" x 15" x 4Mil (Clear Plastic) S-1306	1

40-5-00010 Kit, Owners ST933 & ST1166 (Optional Equipment) - 2018

ITEM	PART NUMBER	Vendor PN	DESCRIPTION	QTY.
10	40-5-00012	REV207-16	Manual, Instruction Vibco DC 12 & 24 Volt	1
11	40-5-00014	3A2481CJ	Operation Manual, Kar-Tech Mega Remote	1
12	90-46-2034	3A2489A	Transmitter, Kar-Tech Mega 22 Button	1
13	90-25-2006	S-1712	Bag, Reclosable 6" x 9" x 4Mil (Clear Plastic) S-1712	1
14	40-5-00015	62 590 15	Owners Manual, Kohler CH940-CH1000 CV940-CV1000	1
15	40-5-00017	1121681	Owners Manual, 4500 Series HD Electric	1
16	90-46-2058	1123160	Remote, Shurco Tarp Smart 1+	1
17	90-25-2003	S-1302	Bolt, Bag 4" x 6" x 4Mil (Clear Plastic) S-1302	1
18	90-41-0035	138001	Assy, Sealco LSAS Trigger Pressure Kit (138001)	1
19	40-5-00025	TIU0425-03	Installation Manual, Sealco LSAS TIU0425-03	1

90-41-0035 Assy, Sealco LSAS Trigger Pressure Kit (138001) - 2018

ITEM	PART NUMBER	Vendor PN	DESCRIPTION	QTY.
1	40-5-00023	8196	Card, Important Factory Set Drop Pressure	1
2	40-5-00024	8195	Card, Caution Load Trailer With The Parking Brakes On	1
3	90-25-2003	S-1302	Bolt, Bag 4" x 6" x 4Mil (Clear Plastic) S-1302	1
4	90-41-0032	Part of # 138001	Pin, Stainless Steel Set	1
5	90-41-0033	Part of # 138001	Cap, Vinyl Ø1.00"	1
6	90-41-0034	808393	Spinseal, Sealco 808393	1
7	90-44-0361		Decal, Warning Sealco LSAS Pull/Push	1
8	90-44-0360		Decal, Warning Sealco LSAS	2

Torque – Hydraulic Tubes and Fittings

Standard torque data for hydraulic tubes and fittings

		Tub		O-Ring Boss Plugs, Adjustable Fitting Lock Nuts, Swivel JIC - 37 ° Seats							
C:	Tubing OD		T. 10.	ft-lbs		Nm		ft-lbs		Nm	
Size	Inches	mm	Thread Size	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 ($0.5\,\mathrm{in}$) OD and thicker with wall thickness of 0.889 mm ($0.035\,\mathrm{in}$) or less. The torque is specified for 0.889 mm ($0.035\,\mathrm{in}$) 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.

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

NOTE: Thick nuts must be used with Grade 8 bolts.

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

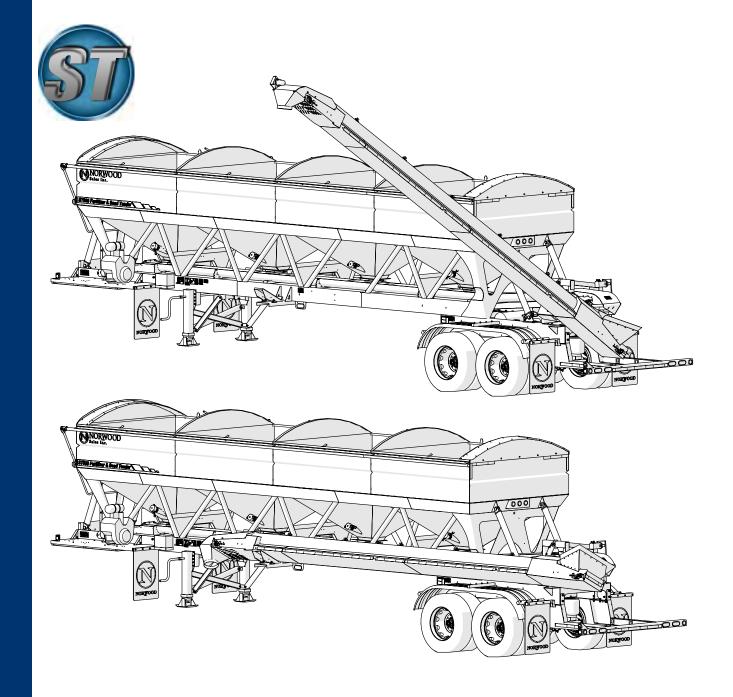
Metric International Standards Organization (ISO) Fastener Torque

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.

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

ISO Class No.		8	.8		10.9				12.9				
Bolt Head Identification (See Note below.)		8.8	8		10.9				12.9				
Bolt Size	ft-l	bs	N	m	ft-	bs	N	m	ft-lbs		N	Nm	
Boil Size	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	
M4	2	3	3	4	3	4	4	5					
M5	5	6	7	8	7	8.0	10	11	Because of the low ductility of these fasteners, the torque range is to be determined				
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	individually for each application				
M14	106	127	144	172	149	179	200	245	As a general rule, the torque				
M16	160	200	217	271	230	280	310	380	ranges specified for Grade				
M20	320	380	434	515	450	540	610	730	10.9 fasteners can be used			sed	
M24	500	600	675	815	780	940	1050	1275	satisf	actorily o	n 12.9 fas	steners.	
M30	920	1100	1250	1500	1470	1770	2000	2400					
M36	1600	1950	2175	2600	2580	3090	3500	4200					

Page 203





Norwood Sales Inc. (Main Office)

• Toll Free: 800-446-0316 • www.norwoodsales.com

 Norwood Sales Inc. Cooperstown, ND

 \ 701-797-3684

 \ 701-797-3685

 Norwood Sales Inc. Horace, Np age 204

 \ 701-588-4000

 \ 701-588-4004

 Norwood Sales Inc. Union, NE

 \ 402-263-2100

 \ 402-263-2104