

# **TRANSFER CONVEYOR**

## **TC 1600-A Model**

### **Owner's Manual**

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## **Warranty**

### **Highline New Agricultural Equipment Limited Warranty**

*Effective July 1, 2000 Two (2) Year / 24 Months*

*1st Year Parts and Labour – 2nd Year Parts Only*

Highline Mfg. Inc (hereinafter "Highline") warrants each new Agricultural product of Highline's manufacturer to be free from defects in material and workmanship, under normal use and service for two (2) full years after initial purchase/retail sale. Highline will warrant its product for one (1) year parts and labour, if performed by a qualified Dealer and on the second year parts only. This Limited Warranty shall apply only to complete machines of Highline's manufacture, parts are covered by a separate Limited Warranty.

**EQUIPMENT AND ACCESSORIES NOT OF HIGHLINE'S MANUFACTURE ARE WARRANTED ONLY TO THE EXTENT OF THE ORIGINAL MANUFACTURER'S WARRANTY AND SUBJECT TO THEIR ALLOWANCE TO HIGHLINE ONLY IF FOUND DEFECTIVE BY SUCH MANUFACTURER.**

During the Limited Warranty period specified above, any defect in material or workmanship in any warranted item of Highline Agricultural Equipment not excluded below shall be repaired or replaced at Highline's option without charge by any authorized independent Highline Dealer. An authorized Dealer must make the warranty repair or replacement. Labour in accordance with Highline's labour reimbursement policy. Highline reserves the right to supply remanufactured replacement parts as it deems appropriate.

**RETAIL PURCHASER RESPONSIBILITY:** This Limited Warranty requires proper maintenance and periodic inspections of the Agricultural Equipment as indicated in the Operator's Manual furnished with each new Agricultural Equipment. The cost of routine or required maintenance and services is the responsibility of the retail purchaser. The retail purchaser is required to keep documented evidence that these services were performed. This Highline New Agricultural Equipment Limited Warranty may be subject to cancellation if the above requirements are not performed

### **EXCLUSIONS AND LIMITATIONS**

The warranties contained herein shall **NOT APPLY TO:**

- (1) Any defect which was caused (in Highline's sole judgement) by other than normal use and service of the Agricultural Equipment, or by any of the following: (i) accident (ii) misuse or negligence (iii) overloading (iv) lack of reasonable and proper maintenance (v) improper repair or installation (vi) unsuitable storage (vii) non-Highline approved alteration or modification (viii) natural calamities (ix) vandalism (x) parts or accessories installed on Agricultural Equipment which were not manufactured or installed by Highline authorized Dealers (xi) the elements (xii) collision or other accident.
- (2) Any Agricultural Equipment whose identification numbers or marks have been altered or removed.
- (3) Any Agricultural Equipment which any of the required or recommended periodic inspection or services have been performed using parts not manufactured or supplied by Highline or meeting Highline Specifications including, but without limitation, lubricants (oil, grease), belt lacings, and hydraulic fluids.
- (4) Equipment used for rental, custom work, industrial and construction or if equipment is used for any other purpose than the intended agricultural application.
- (5) Any Agricultural Equipment used in demonstrations not performed by a Highline Dealer. Warranty will be at the discretion of Highline for all other demonstration warranty.
- (6) **New Agricultural Equipment delivered to the retail purchaser in which the warranty registration has not been completed and returned to Highline within ten (10) days from the date of purchase.**
- (7) Any defect that was caused (in Highline's sole judgement) by operation of the Agricultural Equipment not abiding by standard operating procedures outlined in the Operator's Manual.
- (8) Tire Limited Warranties and support are the responsibility of the respective product's manufacturer.
- (9) Transportation costs, if any, of transporting to the Highline Dealer.
- (10) In no event shall Highline's liability exceed the purchase price of the product.
- (11) Highline shall not be liable to any person under any circumstances for any incidental or consequential damages (including but not limited to, loss of profits, out of service time and damage to equipment which this equipment may be attached) occurring for any reason at any time.
- (12) Diagnostic and overtime labour premiums are not covered under this Limited Warranty Policy.
- (13) Depreciation damage caused by normal wear, lack of reasonable and proper maintenance, failure to follow operating instructions, misuse, and/or lack of proper protection during storage.
- (14) Accessory systems and electronics not of Highline's manufacture are warranted only to the extent of such manufacturer's respective Limited Warranty if any.
- (15) Wear items which are listed by product group below:

**COMMON WEAR ITEMS:** roller chain, sprockets, clutches, shear bolts, clutch components, chains, gearbox housings bolts/torqued parts, flails, feed roller belting, coupler chain, DRV couplers, bogie wheels, apron tines and hoses.

### **PARTS WARRANTY**

Parts replaced in the warranty period will receive the balance of the two year New Agricultural Equipment Limited Warranty. Replacement parts after the original machine warranty are warranted to be free from defects of material for ninety (90) days or the part will be repaired or replaced, without labour coverage for removal and reinstallation.

**EXCLUSION OF WARRANTIES.** UNLESS OTHERWISE REQUIRED BY LAW, AND EXCEPT FOR THE WARRANTIES EXPRESSLY AND SPECIFICALLY MADE HEREIN, HIGHLINE MAKES NO OTHER WARRANTIES, AND ANY POSSIBLE LIABILITY OF HIGHLINE HEREIN UNDER IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS, IMPLIED, OR STATUTORY, INCLUDING, BUT NOT LIMITED TO, ANY WARRANTIES OF MERCHANT ABILITY OR FITNESS FOR A PARTICULAR PURPOSE. HIGHLINE RESERVES THE RIGHT TO MODIFY, ALTER AND IMPROVE ANY PRODUCT WITHOUT INCURRING ANY OBLIGATION TO REPLACE ANY PRODUCT PREVIOUSLY SOLD WITH SUCH MODIFICATION. NO PERSON IS AUTHORIZED TO GIVE ANY OTHER WARRANTY, OR TO ASSUME ANY ADDITIONAL OBLIGATION ON HIGHLINE'S BEHALF.

## **President's Message**

Thank you for your recent purchase of the Accelerator, the fastest 10" conveyor. The Accelerator is the only conveyor to combine gentle handling with auger-like speed. With proper maintenance, the Accelerator will provide years of outstanding performance.

This Operator's Manual has been prepared to provide information necessary for the safe and efficient operation of your Accelerator. In it, you will find safety procedures, maintenance routines, and detailed parts diagrams.

In order to maintain our high standards, changes or improvements are made from time to time. Highline Mfg. Inc. reserves the right to make changes and add improvements when practical to do so without incurring any obligation to make such changes on previously sold machines.

Should the need arise, this manual will assist you in acquiring replacement parts. If your dealer does not have the parts you need in stock, they will be happy to order them in for you. Feel free to contact Highline Mfg. Inc. or your local dealer if you need information that is not included in this manual.

Highline Mfg. Inc. would like to thank you again for entrusting your grain handling needs to the Accelerator.

*Chuck LePage, President*  
*Highline Mfg. Inc.*

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*PO Box 307, Vonda, Saskatchewan, S0K 4N0*

*Phone 1-800-665-2010 Fax (306) 258-2010*

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*Internet Address: <http://www.highlinemfg.com>*

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## **Safety Precautions**

### **WORK SAFELY – FOLLOW THESE INSTRUCTIONS**

***CAREFUL OPERATION IS THE BEST INSURANCE AGAINST AN ACCIDENT!***

 **Before operating the Transfer Conveyor, be sure to review *all* of the instructions and familiarize yourself with its features.**

- Keep yourself and others clear of rotating parts to prevent injury.
- Exercise extreme caution while loading or unloading grain.
- Never attempt to manually remove debris while the hydraulic motor is engaged. Disengage the hydraulic motor before unplugging the Transfer Conveyor.
- Relieve pressure in hydraulic lines before disconnecting lines or performing any maintenance on the hydraulic system.
- Keep away from the discharge and intake area while moving material.
- Know all of the controls and what they do.
- Check machine to ensure nothing restricts the moving or rotating parts.
- Place the Transfer Conveyor on the transport lock support after operation.
- Do not transport Transfer Conveyor above 30 km/hr (20 miles/hr). Ensure hitch is in transport position and transport locking pin is in before transporting unit.
- Do not operate without safety shields and guards in place.
- Do not stand on any guards.

## **1.0 Operating Instructions**

### **1.1 Pre-Operation Instructions**

Prior to operating the Transfer Conveyor with material in it, operate it empty to familiarize yourself with the hydraulic controls and ensure the conveyor belt is centered. If the belt is not centered make the adjustments as described below to center it.

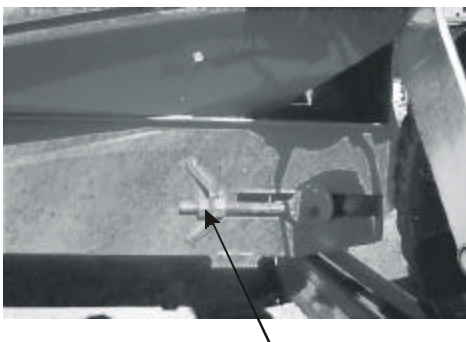
#### **1. Belt Alignment and Belt Tension**

Run the Transfer Conveyor at slow speed without product to adjust (center) the belt. There are two locations where belt adjustment may be required. These adjustment points are the intake and discharge. If the belt is running off to one side, begin with the intake adjustment (Figure 1 and Figure 2). Loosen the two 1/2" nuts on the tensioning "I" bolts. If the belt is running to the left extend the left adjusting "I" bolt. If the belt is running off to the right, shorten the left "I" bolt. When the belt is running straight retighten the nuts. These steps may have to be repeated to bring both adjustment points to alignment.

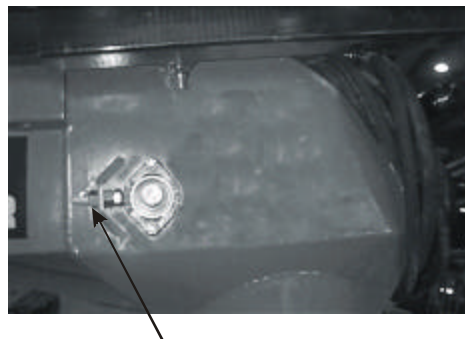
If the belt is now centered on the intake roller but not the discharge roller, adjust the 3/8" drive bearing on the left side of the machine. Loosen the nuts on the drive bearing. If the belt is running to the left side at the discharge, extend the adjusting bolt (located on left side of machine), if the belt is running to the right side at the discharge, shorten the adjusting bolt. Check intake belt alignment and repeat at intake if necessary.

Note: When belt is in operation, some travel may occur in a side to side manner on the rollers. The acceptable tolerance is approximately 1/2" overall.

**Figure 1**  
**Belt tracking adjustment - Intake**



**Figure 2**  
**Belt tracking adjustment - Discharge**





Belt tension is set at the factory and should not need adjustment. If however after running the conveyor, it is found to be slipping under some conditions tension can be increased by following the procedure set out below.

Extend both adjusting "I" bolts at the intake 2 full threads. If the belt continues to slip, adjust again extending both adjusting "I" bolts 2 full threads.

If the belt still slips and there is no adjustment left on the tensioning rod, a section of the belt can be removed and the tensioning system reset. This will need to be done by a qualified technician. Please contact Highline for proper direction.

## 1.2 General Operating Instructions

Watch the conveyor belt to ensure that it is centered on all rollers. If it is not centered, refer to the Pre-operation Instructions for directions on how to center the belt.

At no time should the belt be allowed to slip on the main drive roller. If slippage occurs, **IMMEDIATELY** shut down the conveyor, determine where the problem has occurred and correct it.

If the Transfer Conveyor belt slips with material in the tube, stop the machine and evenly and slowly re-engage the hydraulics.

If the Transfer Conveyor belt stops due to overfilling of the Accelerator hopper, clear the material from the discharge. Restart the conveyor slowly, making sure the belt does not slip on the drive roller.

Do not spill or allow oil to come into contact with the belt.

Do not run the conveyor without shields in place.

Keep all nuts, bolts, bearing lock collars, etc. tight at all times.

## **2.0 Maintenance Instructions**

To ensure a long operating life of your Transfer Conveyor, follow these maintenance procedures.

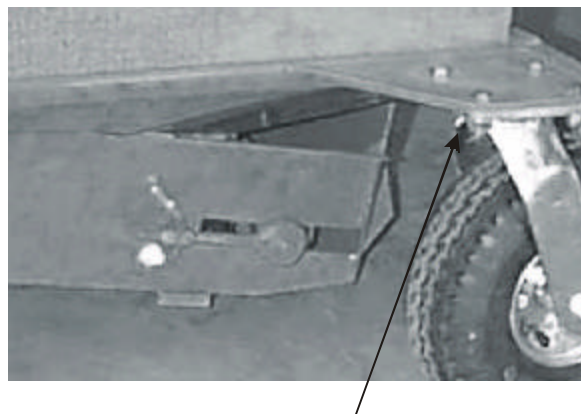
- Periodically check all bolts for tightness.
- Periodically inspect belt splice for signs of wear and tear.
- Periodically check belt alignment and adjust as required.
- Grease points as described below.
- Ensure tire air pressure is maintained at rated psi. Main wheels 50 psi. Caster wheels 50 psi. Fluctuation in the air pressure may result in damage to the tire.

### **2.1 Grease Locations**

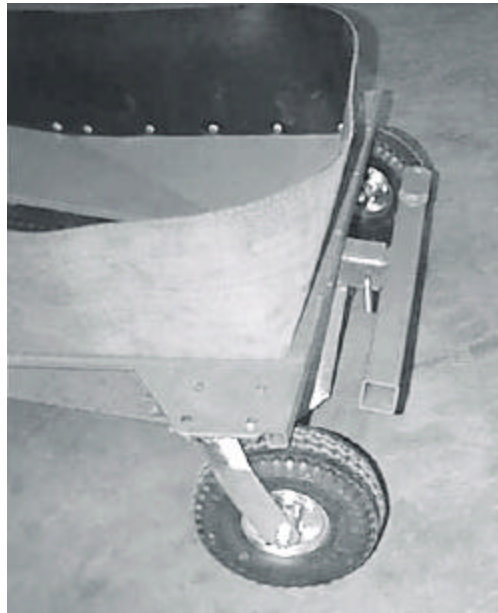
**Figure 3**  
**Main wheel grease location - 200 hours**



**Figure 4**  
**Caster wheel grease location**



**Figure 5**  
**Hitch in storage position**



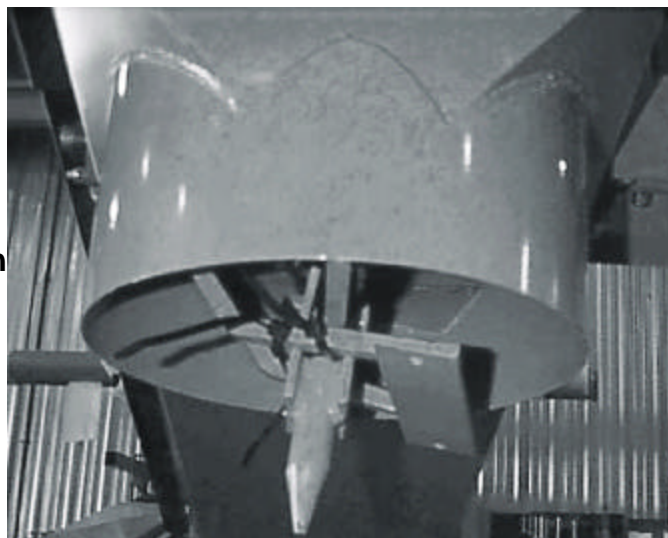
**Figure 6**  
**Hitch in transport position**



**Figure 7**  
**Flow control**  
**- turn out for maximum belt speed**



**Figure 8**  
**Transfer pivot shipping location**



**Figure 9**  
**Transfer pivot location**

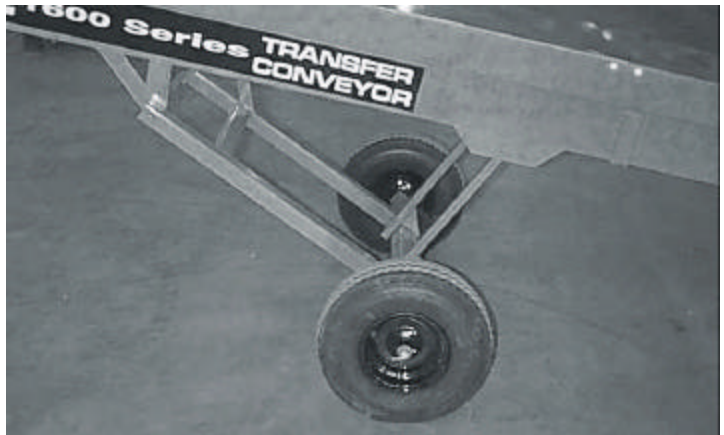
PART NO.	DESCRIPTION	QTY.
50510	WLDT.PIVOT.MOUNT	1
31479	BOLT,HEX,3/8X1-1/4,UNC,GR5,ZP	2
31176	NUT,NYLOCK,3/8,UNC,ZP	2



**Figure 10**  
**Undercarriage transport lock**  
**in storage position**



**Figure 11**  
**Undercarriage transport lock**  
**in transport position**



### **3.0 Parts Information**

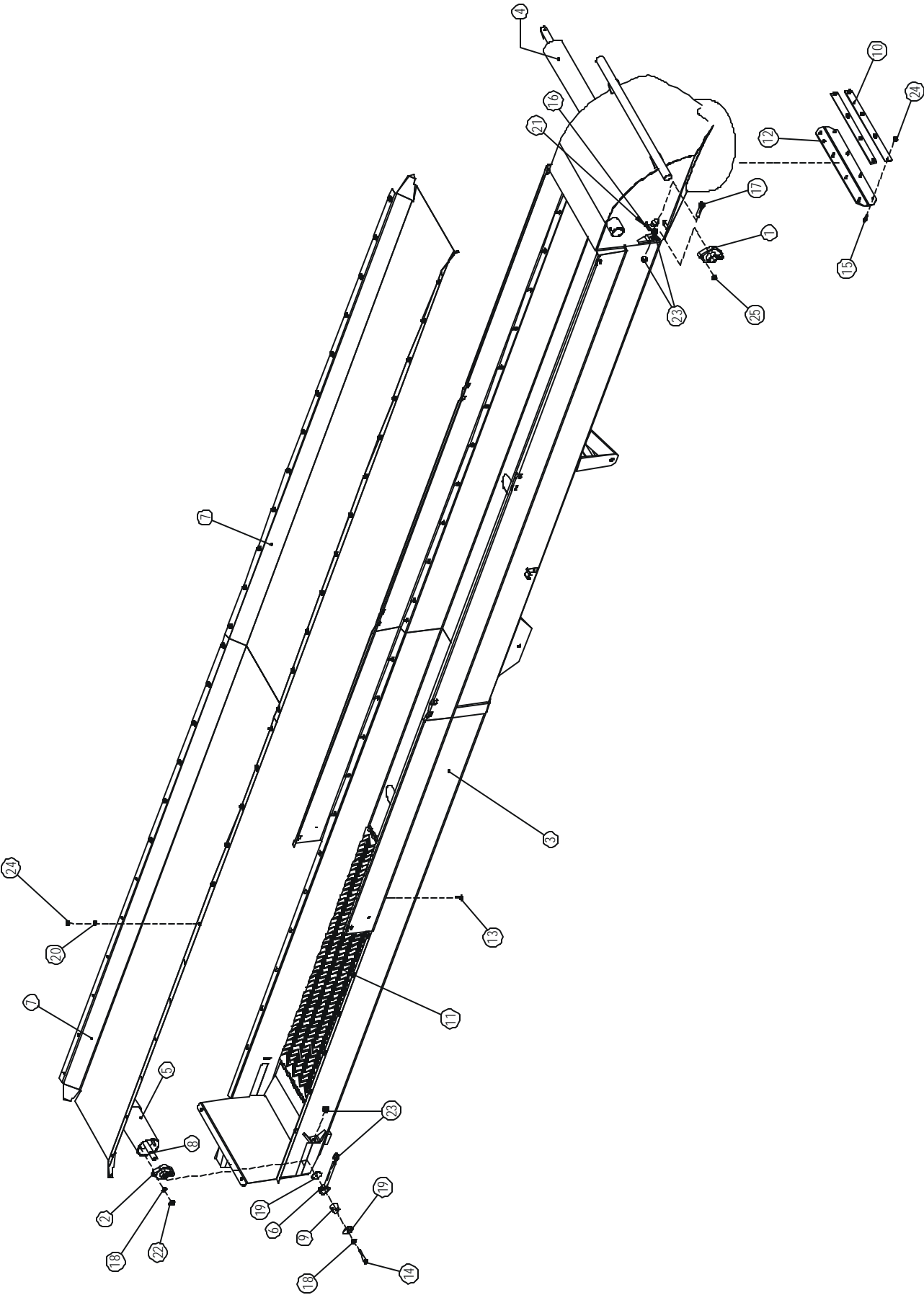
#### **3.1 Frame Assembly (Part No. 54015)**

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	31915	BEARING, FLANGE, 2BOLT, 1	1
2	E6499	BEARING, 2BOLT, 5/8, DRILLED	2
3	54005	FRAME, TRANSFER	1
4	54012	ROLLER, DRIVE, TRANSFER, ASSM	1
5	54013	ROLLER, DISCHARGE, 3-1/2X15	1
6	54014	BOLT, EYE, 1/2X5X1 DIA, WELDED	2
7	E5955	SHT, PAN, CHARGE, CENTER	2
8	E6018	SHAFT, 5/8X15-3/4, TAPPED 3/8UNC	1
9	E6020	BUSHING, 13/32X1X1L	2
10	E6024	SHT, BACKING, STRIPPER, TRANSFER	2
11	E6025	BELT, 15", TRANSFER	1
12	E6027	SKIRT, TRANSFER, DISCHARGE	2
13	37998	BOLT, CARR, 1/4X3/4, UNC, GR5, ZP	36
14	31067	BOLT, HEX, 3/8X2, UNC, GR5, ZP	2
15	31033	BOLT, HEX, 1/4X3/4, UNC, GR5, ZP	8
16	31044	BOLT, HEX, 3/8X1-1/2, UNC, GR5, ZP	2
17	31515	BOLT, HEX, 1/2X2, UNC, GR5, ZP, FT	1
18	31319	WASHER, LOCK, 3/8, ZP	6
19	31234	WASHER, SP, FLAT, 25/64IDX1-1/2OD	4
20	31237	WASHER, FLAT, 1/4, ZP	36
21	31351	WASHER, FLAT, 3/8, ZP	2
22	31485	NUT, HEX, 3/8, UNC, GR5, ZP	4
23	31163	NUT, HEX, 1/2, UNC, GR5, ZP	6
24	31174	NUT, NYLOCK, 1/4, UNC, ZP	44
25	31176	NUT, NYLOCK, 3/8, UNC, ZP	2

\* For units with 3/8 bolt version of the discharge roller, use the following BOM for the items indicated

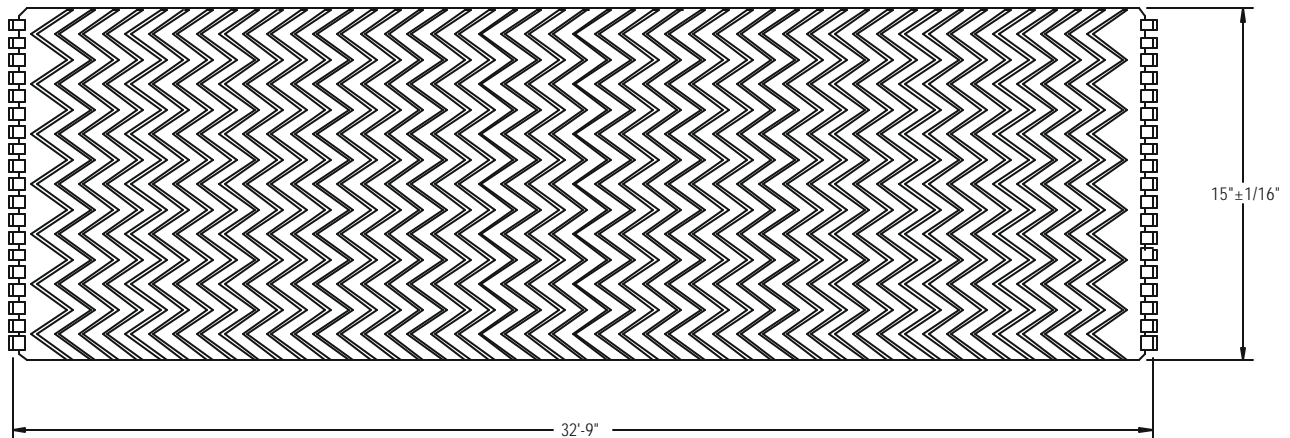
ITEM NO.	PART NO.	DESCRIPTION	QTY.
2	E6499	BEARING, FLANGE, 2BOLT, 1	2
17	31319	WASHER, LOCK, 3/8, ZP	4
20	31485	NUT, HEX, 3/8, UNC, GR5, ZP	4





**3.2 Belting (Part No. E6025)**

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	30640	KIT, LACE, SSRS125, 15, PIN, WASHER	1
2	30641	LACE, SSRS125, 15"	1
3	30642	LACE, PIN, NC-1, 100'	1
4	30643	LACE, PIN, WASHER, 50	1
5	30644	LACE, SPLICETOOL, RS125, 4"	1
6	33020	BELT, 15", REPLACEMENT, 1'	1

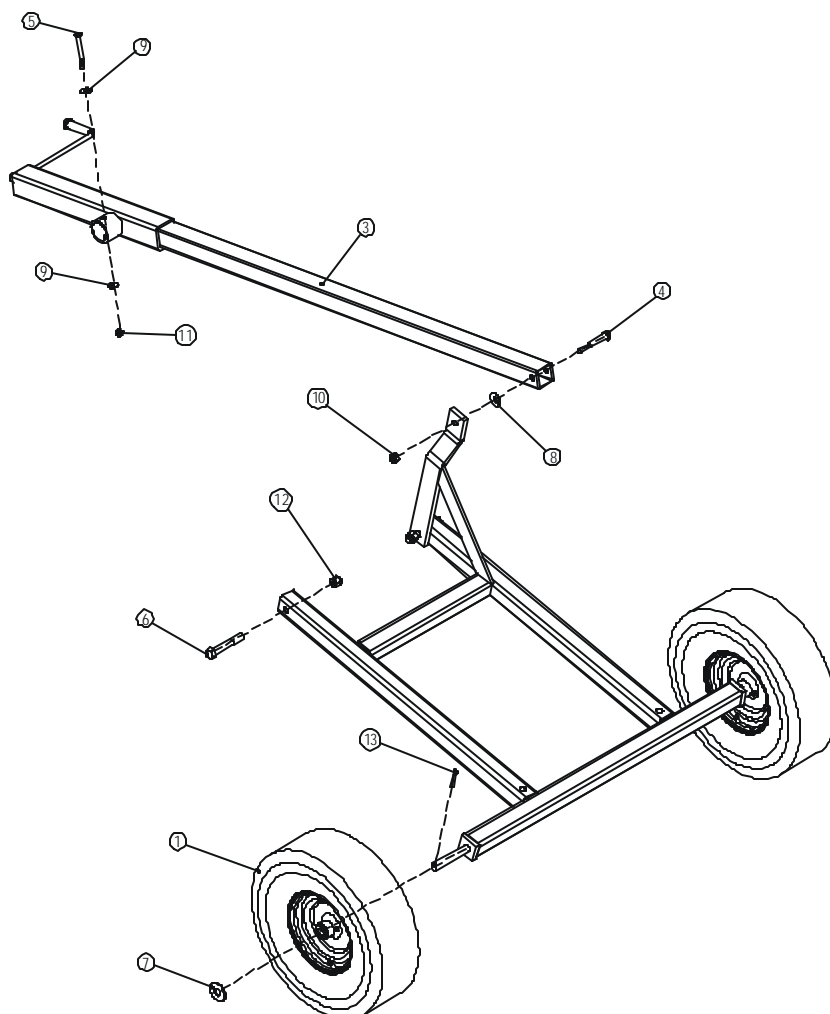




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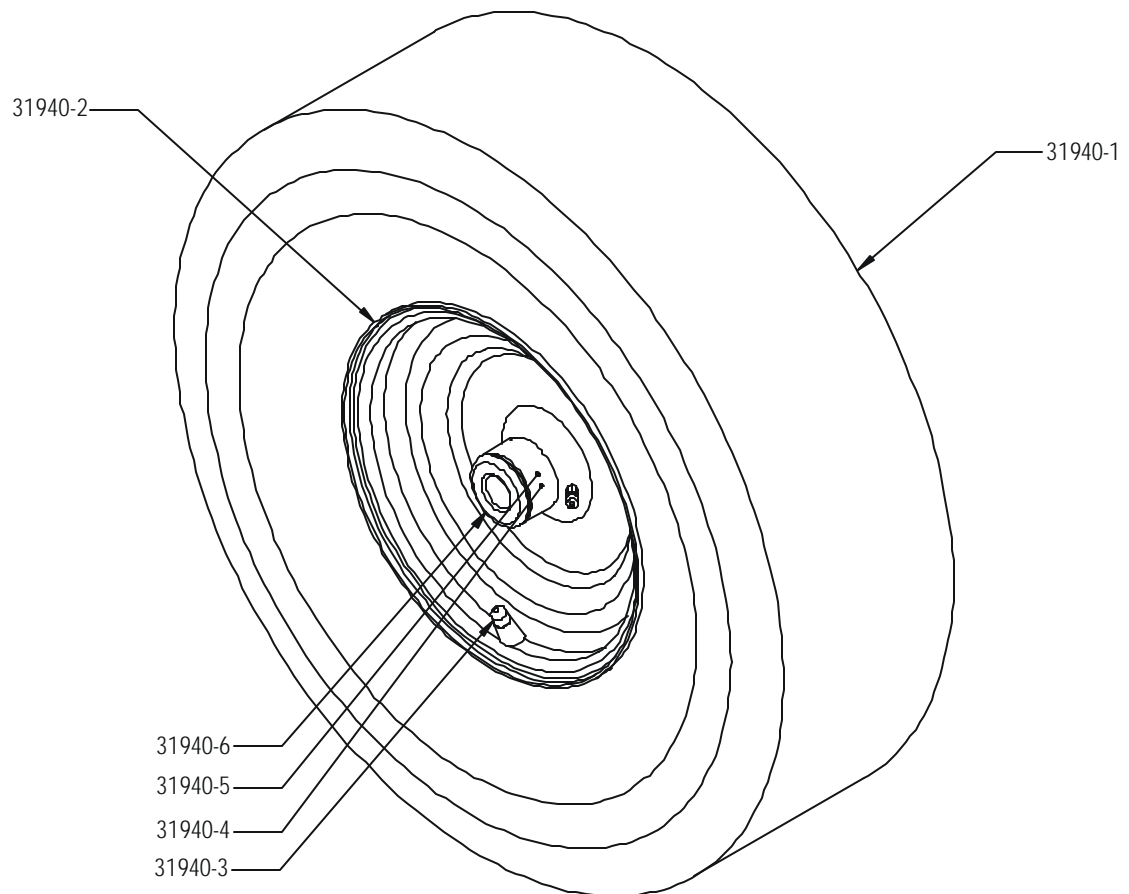
### 3.3 Axle and Lift Assembly (Part No. 54016)

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	31940	WHEEL, ASSM, 570X8, 3/4X4 BEARING	2
2	54004	UNDERCARRIAGE, TRANSFER	1
3	E6008	JACK, SCREW, TRANSFER	1
4	31023	BOLT, HEX, 1/2X3-1/2, UNC, GR5, ZP	1
5	31781	BOLT, HEX, 3/8X3-1/2, UNC, GR5, ZP	1
6	31337	BOLT, HEX, 5/8X4, UNC, GR5, ZP	2
7	31238	WASHER, FLAT, 3/4, ZP	2
8	31236	WASHER, FLAT, 1/2, ZP	1
9	31351	WASHER, FLAT, 3/8, ZP	2
10	31173	NUT, NYLOCK, 1/2, UNC, ZP	1
11	31176	NUT, NYLOCK, 3/8, UNC, ZP	1
12	31178	NUT, NYLOCK, 5/8, UNC, ZP	2
13	30221	PIN, COTTER, 3/16X1-3/4	2



**3.3.1 Wheel Assembly (Part No. 31940)**

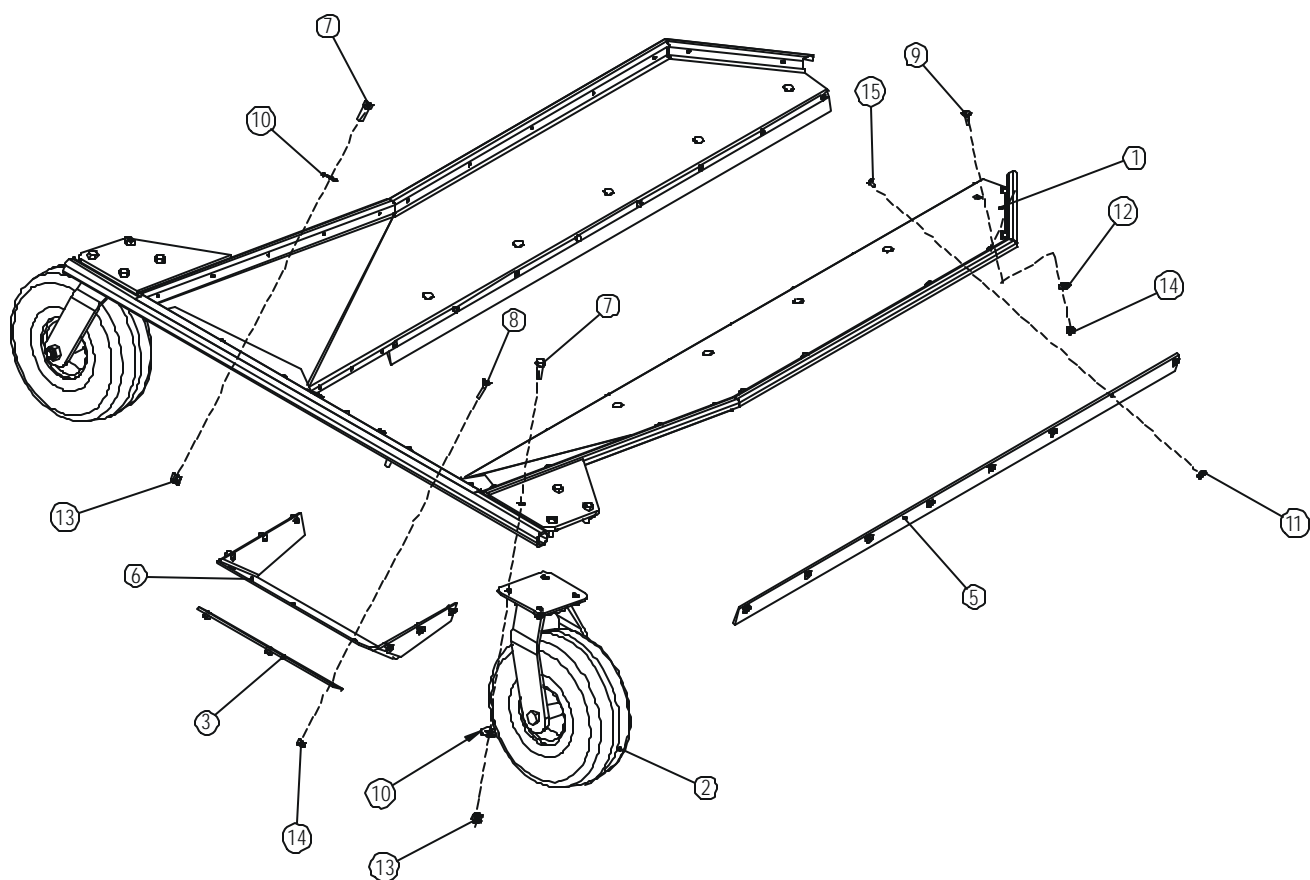
ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	31940-1	WHEEL, STEEL, 5.70X8	1
2	31940-2	TIRE, 5.70X8	1
3	31940-3	TR-413 VALVE	1
4	31940-4	2-1/4" NEEDLE BEARING	1
5	31940-5	1" NEEDLE BEARING	1
6	31940-6	RETAINER BUSHING	2

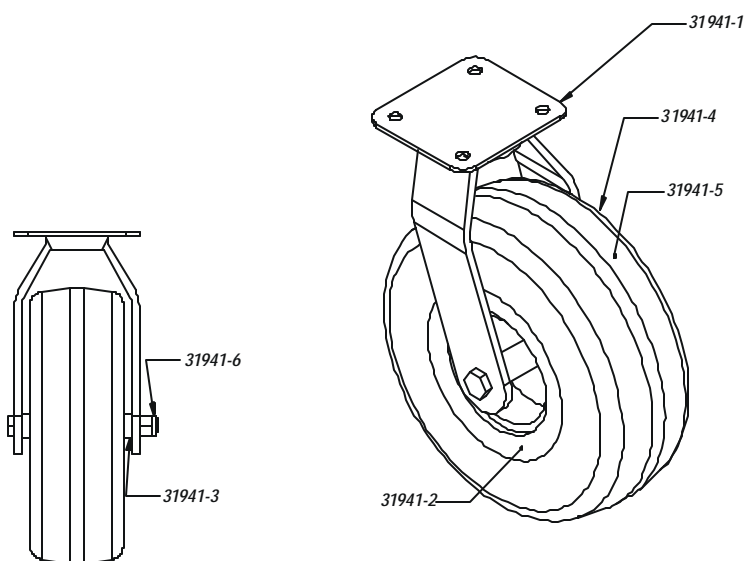
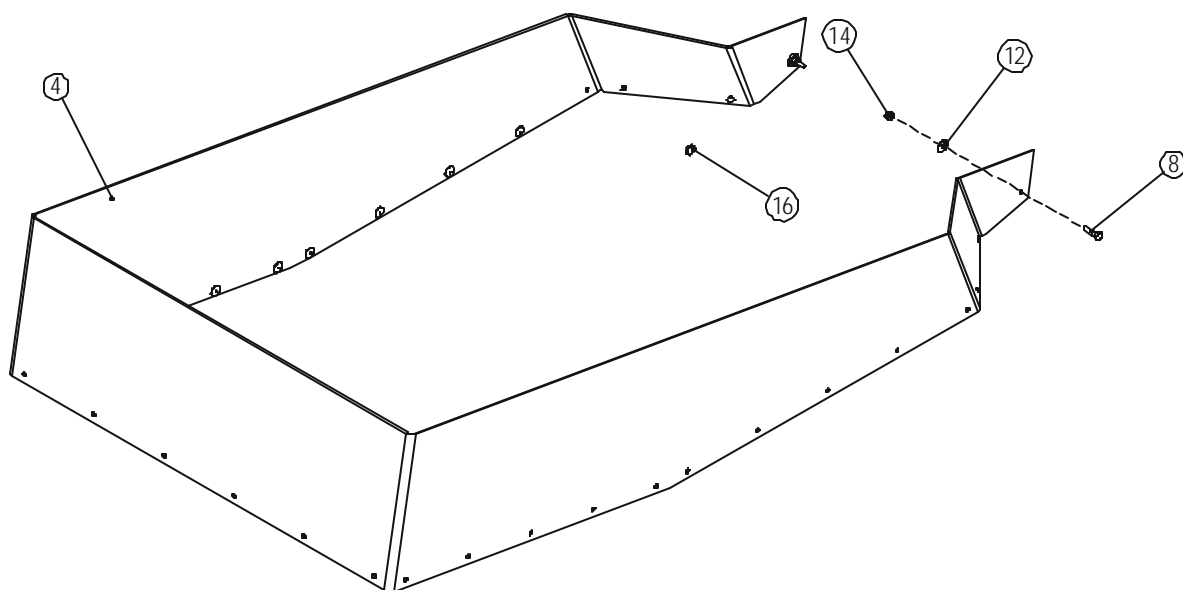


Note: Inflate tire to 50 psi.

### 3.4 Hopper Assembly (Part No. 54017)

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	54000	HOPPER, CONVEYOR, 18, ASSM	1
2	31941	TIRE, CASTER, SWIVEL, 410/350X4, 4PLY	2
3	E6023	SHT, BACKING, HOPPER, FRT, TRANSFER	1
4	E6030	RUBBER, EXTENSION, HOPPER, TRANSFER	1
5	E6031	SKIRT, TRANSFER, SIDE, HOPPER	2
6	E6032	SKIRT, TRANSFER, HOPPER, FRONT	1
7	31043	BOLT, HEX, 3/8X1, UNC, GR5, ZP	10
8	31029	BOLT, HEX, 1/4X1, UNC, GR5, ZP	5
9	37998	BOLT, CARR, 1/4X3/4, UNC, GR5, ZP	10
10	31351	WASHER, FLAT, 3/8, ZP	10
11	31536	WASHER, FLAT, 3/16, ZP	24
12	31237	WASHER, FLAT, 1/4, ZP	12
13	31176	NUT, NYLOCK, 3/8, UNC, ZP	10
14	31174	NUT, NYLOCK, 1/4, UNC, ZP	15
15	31739	RIVET, ST, 3/16x.565, .375 HEAD	24
16	30552	RIVET, ST, 3/16x.565, .625 HEAD	25



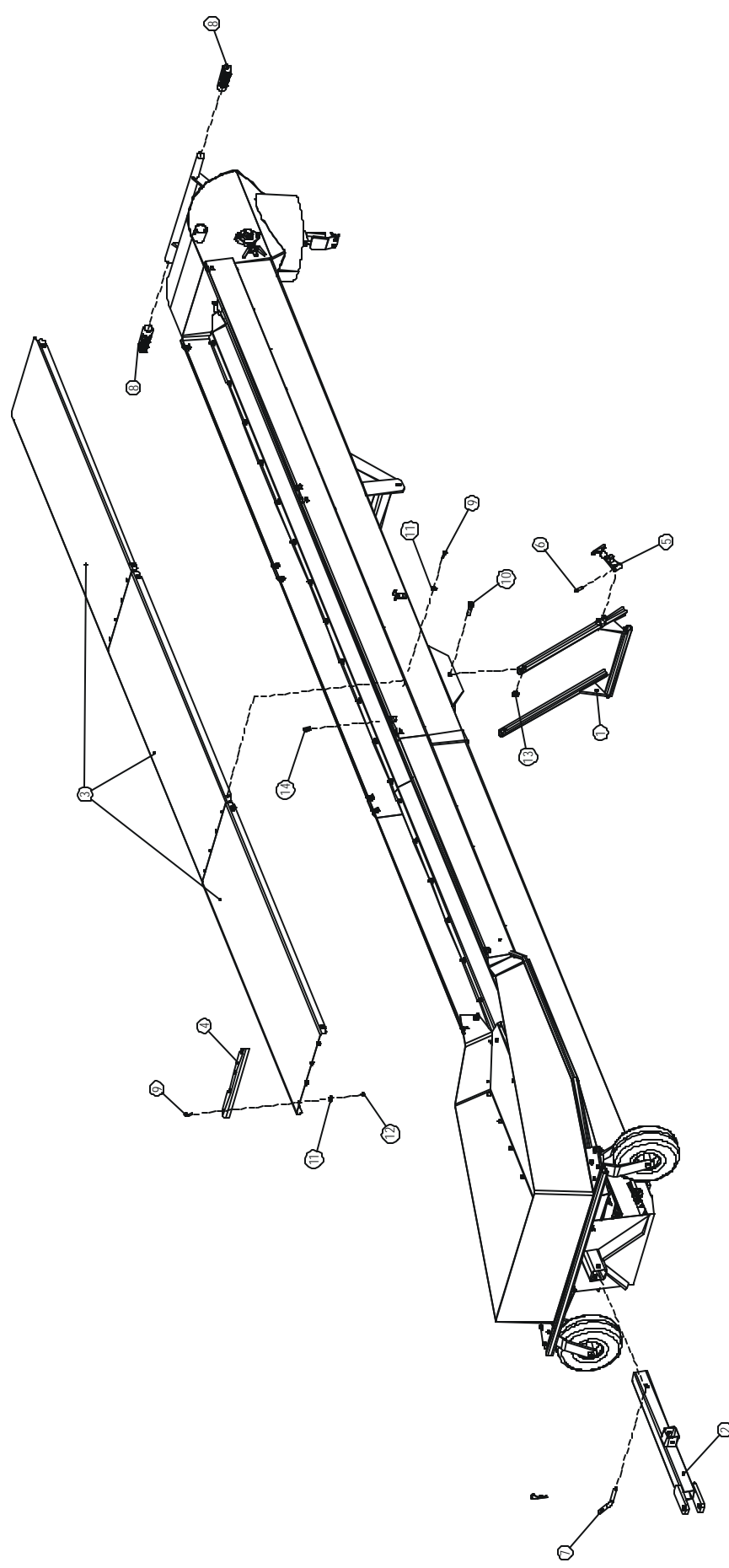


Note: Inflate tire to 50 psi.

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	31941-1	YOKE/SWIVEL ASSEMBLY	1
2	31941-2	HUB,C/W BEARINGS & TIRE	1
3	31941-3	1/2"IDX1.375"OD BALL BEARINGS	2
4	31941-4	TIRE,410/350X4,2 PLY	1
5	31941-5	TUBE,410/350X4	1
6	31941-6	USE ONE 31028 AND ONE 31173	1
7	31941	TIRE,CASTER,SWIVEL,410/350X4,4 PLY	1

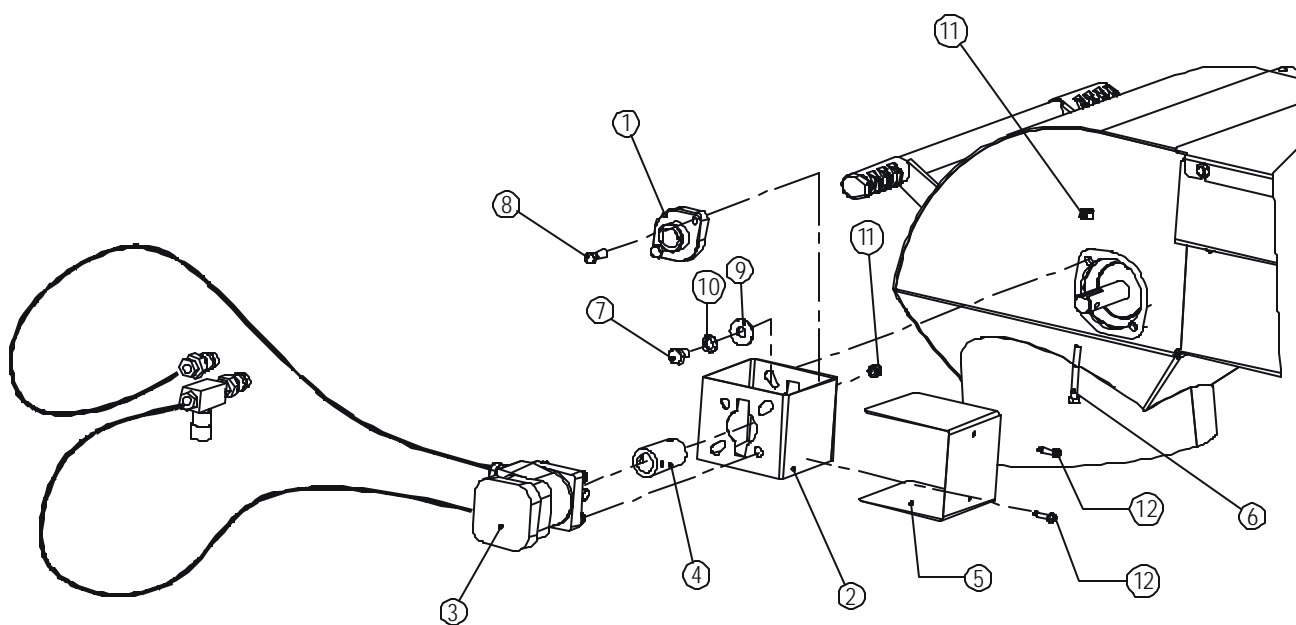
**3.5 Lock, Hitch and Cover Assembly (Part No. 54018)**

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	54006	LOCK,TRANSPORT,TRANSFER	1
2	54007	HITCH,TRANSFER	1
3	E5961	COVER,TRANSFER	3
4	E6021	SHT,STRIPPER,TRANSFER	1
5	31773-01	STRAP,RUBBER	1
6	31773-04	PIN	1
7	31917	PIN,HITCH,1/2X3,ZP	1
8	31810	GRIP,HANDLE,1-1/4IDX4-1/2	2
9	31029	BOLT,HEX,1/4X1,UNC,GR5,ZP	16
10	31070	BOLT,HEX,1/2X2,UNC,GR5,ZP	2
11	31237	WASHER,FLAT,1/4,ZP	16
12	31174	NUT,NYLOCK,1/4,UNC,ZP	4
13	31173	NUT,NYLOCK,1/2,UNC,ZP	2
14	31593	CLIP,AUTOMOTIVE,1/4,GR5,ZP	12



### 3.6 Hydraulic Assembly (Part No. 54020)

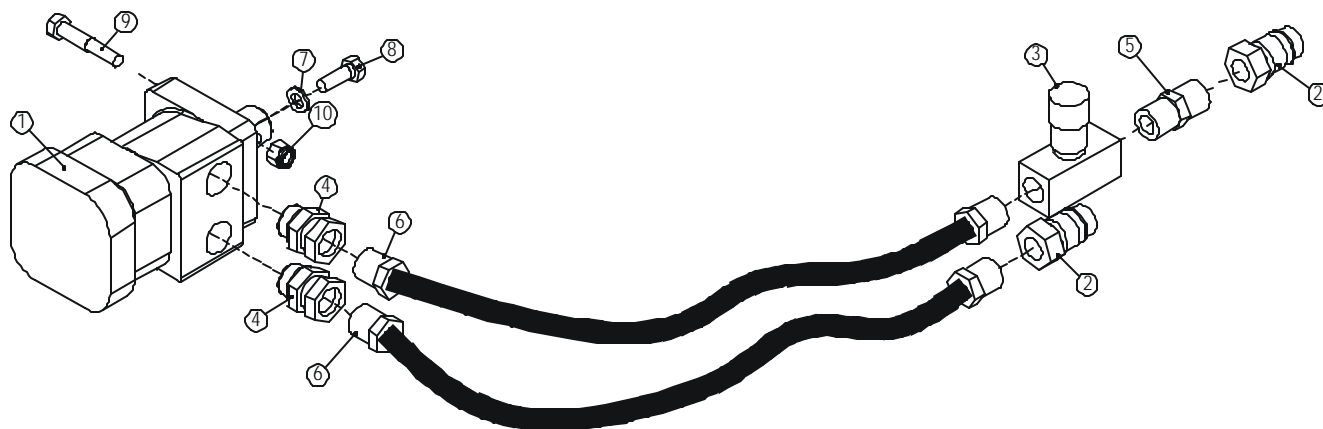
ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	31915	BEARING, FLANGE, 2BOLT, 1	1
2	54010	MOTOR MOUNT, TRANSFER	1
3	50285	HYD, KIT, AUGER, CONVEYOR	1
4	E6017	COUPLER, TRANSFER	1
5	E6275	GUARD, COUPLER, HYDRAULIC_DRIVE	1
6	31544	BOLT, HEX, 3/8X2-3/4, UNC, GR5, ZP	1
7	30405	BOLT, HEX, 1/2X3/4, UNC, GR5, ZP	2
8	31479	BOLT, HEX, 3/8X1-1/4, UNC, GR5, ZP	2
9	31236	WASHER, FLAT, 1/2, ZP	2
10	31244	WASHER, LOCK, 1/2, ZP	2
11	31176	NUT, NYLOCK, 3/8, UNC, ZP	3
12	30294	SCREW, TEK, 1/4X1	2





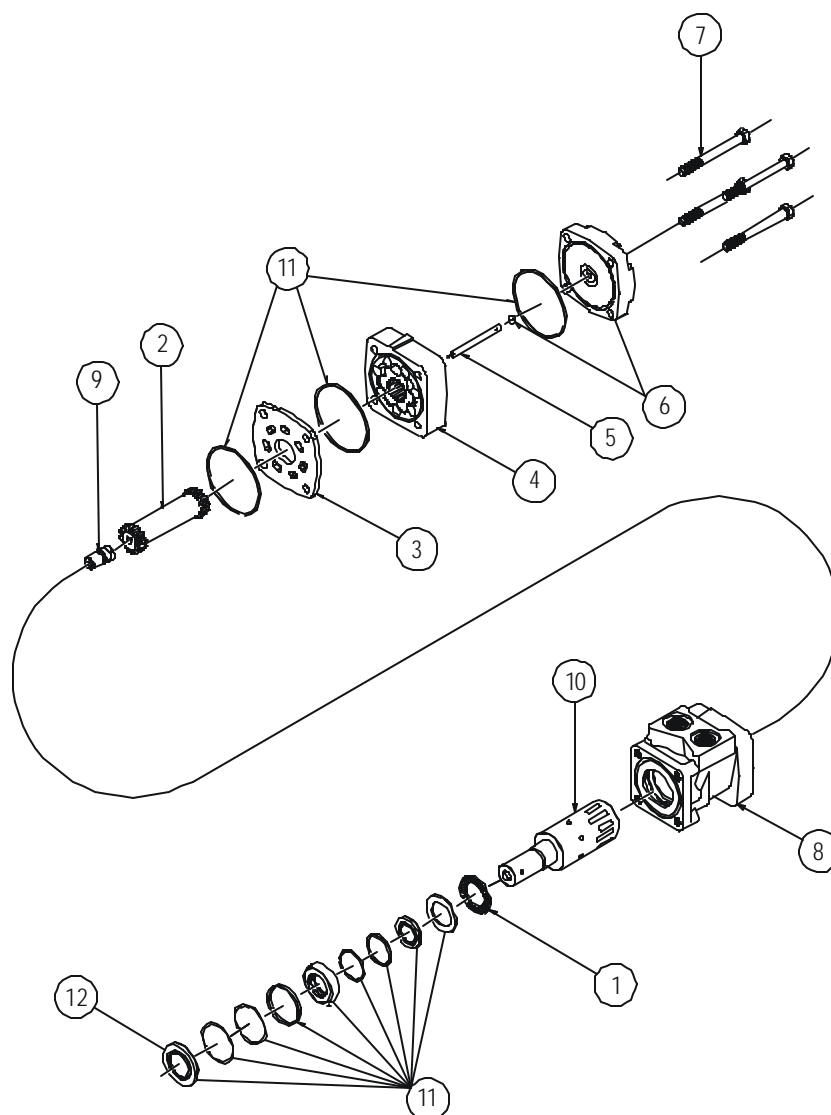
**3.6.1 Hydraulic Auger Kit (Part No. 50285)**

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	30087	HYD,MOTOR,2.8,914RPM,1800PSI	1
2	30209	HYD,FIT,PIONEER,MALE,8FP	2
3	32975	HYD,VALVE,CONTROL,FLOW,8FP	1
4	32017	HYD,FIT,ADAPTOR,8FP-MB	2
5	32082	HYD,FIT,ADAPTOR,8MP-8MP	1
6	30036	HYD,HOSE,3/8X256,8MP-8MP,2W	2
7	31319	WASHER,LOCK,3/8,ZP	4
8	31043	BOLT,HEX,3/8X1,UNC,GR5,ZP	4
9	31067	BOLT,HEX,3/8X2,UNC,GR5,ZP	1
10	31176	NUT,NYLOCK,3/8,UNC,ZP	1



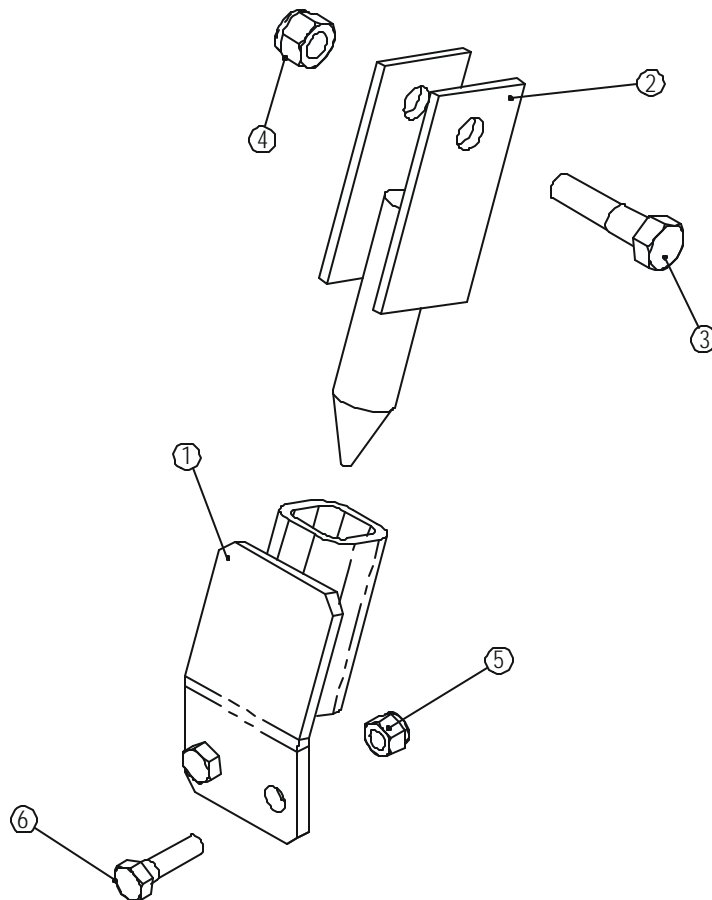
**3.6.2 Hydraulic Motor Assembly(Part No. 30087)**

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	31833	HYD,THRUST BEARING	1
2	31843	HYD,DRIVE LINK	1
3	31835	HYD,WEAR PLATE	1
4	31844	HYD,ROTOR ASSEMBLY	1
5	31845	HYD,DRIVE LINK PIN	1
6	31838	HYD,ENDCOVER KIT	1
7	31846	HYD,BOLT,ENDCOVER	4
8	31840	HYD,HOUSING	1
9	31841	HYD,COOLING PLUG	1
10	31842	HYD,SHAFT	1
11	32735	SEAL KIT	1
12	31986	HYD,MOTOR,SEAL,WHITE	



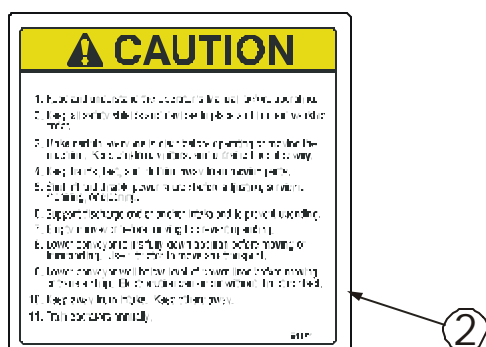
**3.7 Pivot Assembly (Part No. 54026)**

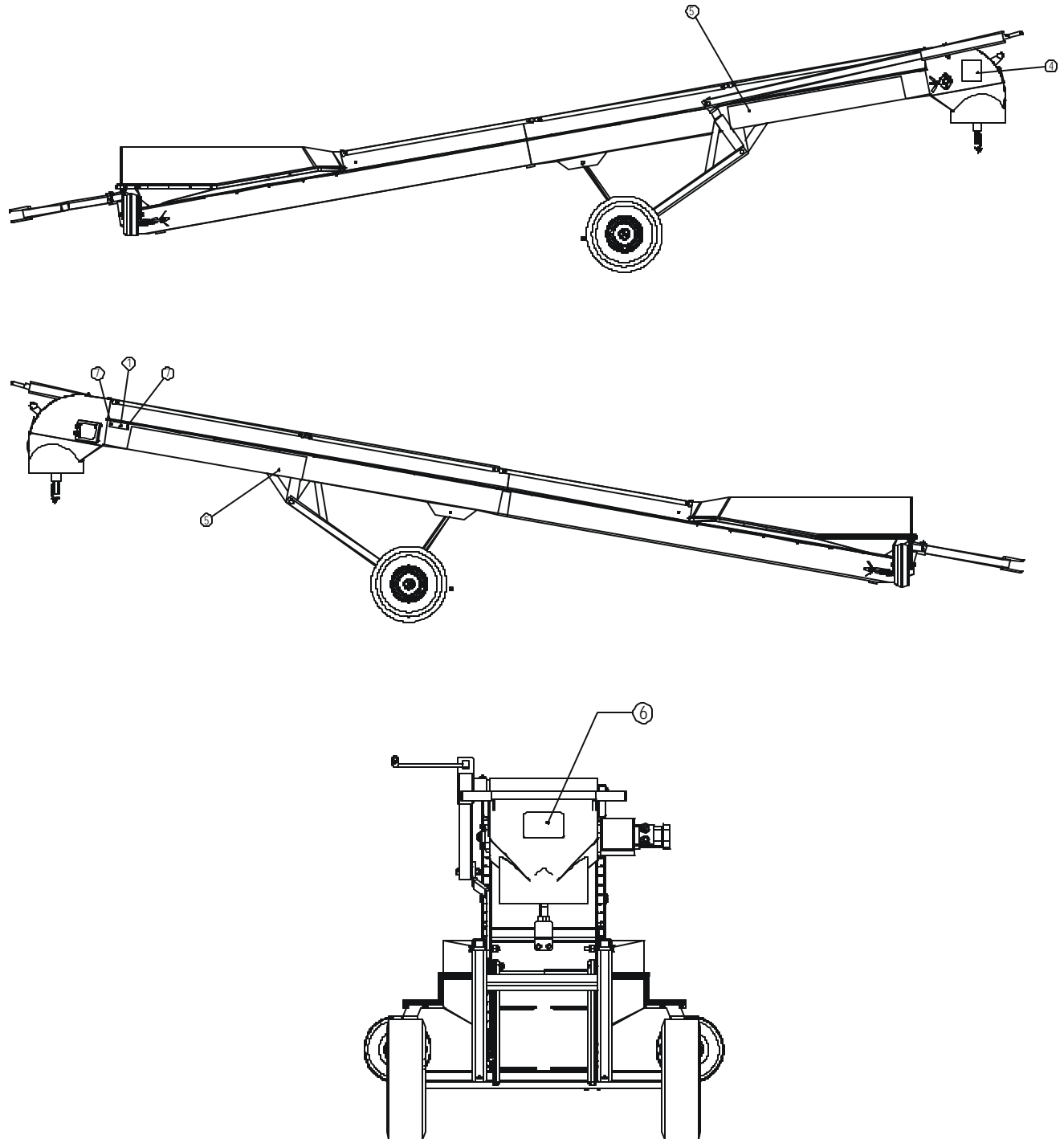
ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	50510	WLDT,PIVOT,MOUNT	1
2	54008	PIVOT,TRANSFER	1
3	31070	BOLT,HEX,1/2X2,UNC,GR5,ZP	1
4	31173	NUT,NYLOCK,1/2,UNC,ZP	1
5	31176	NUT,NYLOCK,3/8,UNC,ZP	2
6	31479	BOLT,HEX,3/8X1-1/4,UNC,GR5,ZP	2



### 3.8 Decal Assembly (Part No. 54021)

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	30208	PLT,SERIAL,#	1
2	E4171	DECAL,CAUTION,READ	1
3	E6028	DECAL,TRANSFER,1600	2
4	E6051	DECAL,T_TRANSPORT,DO_NOT_LIFT	1
5	31598	RIVET,ST,1/8X.203,.250 HEAD	2

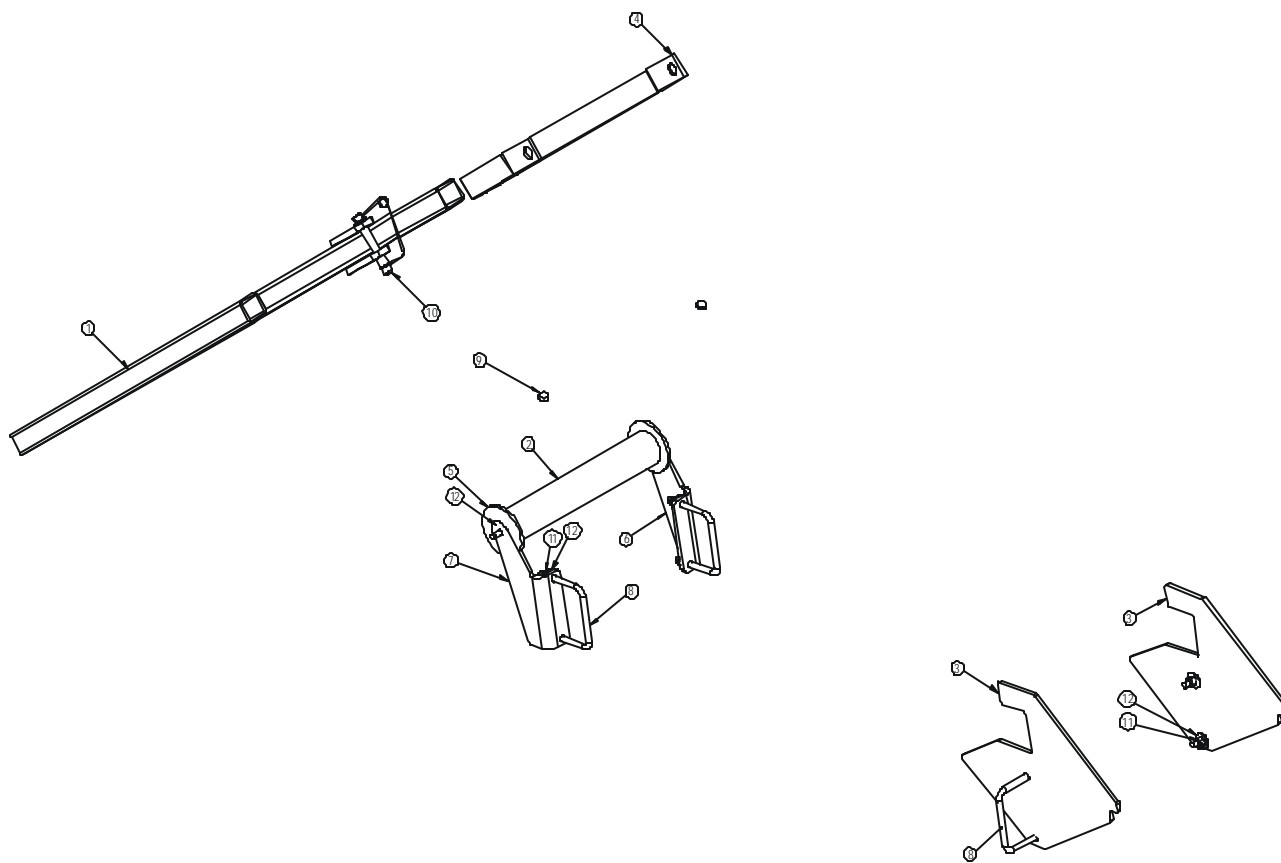




## 4.0 Transfer Transport

### 4.1 Transfer Transport (Part No. TCT-A)

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	54023	HOOK, ASSM, TRANSFER, TRANSPORT	1
2	54024	ROLLER, TRANSFER, TRANSPORT	1
3	E6033	PLT, LOCK, HITCH, TRANSFER, TRANSPORT	2
4	E6036	LOOP, TRANSFER, TRANSPORT	1
5	E6046	DISK, UHMW, 4-1/2 ODX 9/16 ID X 1/4 T	2
6	E6048	BRACKET, ROLLER, TRANSPORT, LEFT	1
7	E6049	BRACKET, ROLLER, TRANSPORT, RIGHT	1
8	31942	BOLT, U, SQ, 1/2-13 X 5 X 4-1/2	4
9	31943	BUMPER, AD-BACK, PVC, 0.83 D X 1/4 T, BLK	2
10	31949	PIN, HITCH, SAFETY, 3/4 X 4	1
11	31173	NUT, NYLOCK, 1/2, UNC, ZP	8
12	31236	WASHER, FLAT, 1/2, ZP	10



**Figure 12**  
**Transport side plate location**

PART NO.	DESCRIPTION	QTY
E6033	PLT, LOCK, HITCH, TRANSFER TRANSPORT	2
31942	BOLT, U, SQ	2
31173	NUT, NYLOCK, 1/2, UNC	4
31236	WASHER, FLAT, 1/2	4



**Figure 13**  
**Roller Location**

PART NO.	DESCRIPTION	QTY
54024	ROLLER, TRANSFER TRANSPORT	1
E6046	DISK, UHMW, 4-1/2 ODX 9/16 ID X 1/4 T	2
E6048	BRACKET, ROLLER, TRANSFER TRANSPORT, LEFT	1
E6049	BRACKET, ROLLER, TRANSFER TRANSPORT, RIGHT	1
31942	BOLT, U, SQ	2
31173	NUT, NYLOCK, 1/2	4
31236	WASHER, FLAT, 1/2	6



**Figure 14**  
**Transfer Transport Carrier Location**  
**(use existing bolts)**

PART NO.	DESCRIPTION	QTY
E6036	LOOP, TRANSFER TRANSPORT	1



**Figure 15**  
**Transfer Transport Carrier and**  
**Bumper locations**

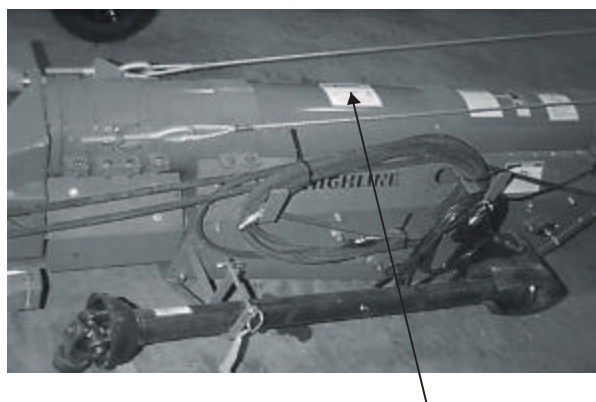
PART NO.	DESCRIPTION	QTY
31943	BUMPER,AD-BACK,PVC	2
54023	HOOK,ASSM,TRANSFER TRANSPORT	1



**Figure 16**  
**Decal (E6051) Location #1**



**Figure 17**  
**Decal (E6051) Location #2**





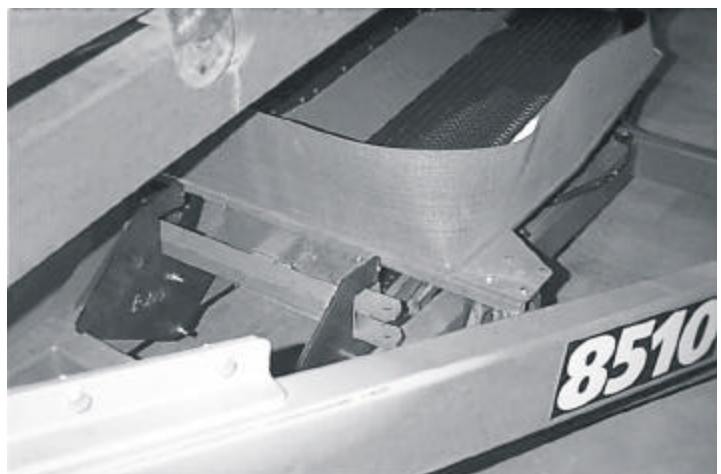
**Figure 18**  
**Push Transfer Conveyor in**



**Figure 19**  
**Hook carrier linkage**



**Figure 20**  
**Intake location in Transfer**  
**Transport**



**Figure 21**  
**Raise undercarriage to tighten**  
**carrier linkage**



**Figure 22**  
**Transfer Transport**



- As shown – Use the jack on Transfer Conveyor to fully raise Transfer Conveyor wheels to the position shown. This is the recommended position for transporting the Transfer Conveyor.

**5.0 Parts Index**

PartNum	DESCRIPTION	PAGE	ITEM
30036	HYD,HOSE,3/8X256,8MP-8MP,2W	25	6
30087	HYD,MOTOR,2.8,914RPM,1800PSI	25	1
30208	PLT,SERIAL#	28	1
30209	HYD,FIT,PIONEER,MALE,8FP	25	2
30221	PIN,COTTER,3/16X1-3/4	18	13
30294	SCREW,TEK,1/4X1	24	12
30405	BOLT,HEX,1/2X3/4,UNC,GR5,ZP	24	7
30552	RIVET,ST,3/16X.565,.625 HEAD	20	16
30640	KIT,LACE,SSRS125,15,PIN,WASHER	16	1
30641	LACE,SSRS125,15"	16	2
30642	LACE,PIN,NC-1,100'	16	3
30643	LACE,PIN,WASHER,50	16	4
30644	LACE,SPLICETOOL,RS125,4"	16	5
31023	BOLT,HEX,1/2X3-1/2,UNC,GR5,ZP	18	4
31029	BOLT,HEX,1/4X1,UNC,GR5,ZP	20	8
31029	BOLT,HEX,1/4X1,UNC,GR5,ZP	22	10
31033	BOLT,HEX,1/4X3/4,UNC,GR5,ZP	14	14
31043	BOLT,HEX,3/8X1,UNC,GR5,ZP	20	7
31043	BOLT,HEX,3/8X1,UNC,GR5,ZP	25	8
31044	BOLT,HEX,3/8X1-1/2,UNC,GR5,ZP	14	15
31067	BOLT,HEX,3/8X2,UNC,GR5,ZP	14	13
31067	BOLT,HEX,3/8X2,UNC,GR5,ZP	25	9
31070	BOLT,HEX,1/2X2,UNC,GR5,ZP	22	9
31070	BOLT,HEX,1/2X2,UNC,GR5,ZP	27	3
31163	NUT,HEX,1/2,UNC,GR5,ZP	14	21
31164	NUT,HEX,1/4,UNC,GR5,ZP	14	20
31173	NUT,NYLOCK,1/2,UNC,ZP	18	10
31173	NUT,NYLOCK,1/2,UNC,ZP	22	12
31173	NUT,NYLOCK,1/2,UNC,ZP	27	4
31173	NUT,NYLOCK,1/2,UNC,ZP	30	11
31173	NUT,NYLOCK,1/2,UNC	31	
31173	NUT,NYLOCK,1/2,UNC	31	
31174	NUT,NYLOCK,1/4,UNC,ZP	14	22
31174	NUT,NYLOCK,1/4,UNC,ZP	20	14
31174	NUT,NYLOCK,1/4,UNC,ZP	22	13
31176	NUT,NYLOCK,3/8,UNC,ZP	12	
31176	NUT,NYLOCK,3/8,UNC,ZP	14	23
31176	NUT,NYLOCK,3/8,UNC,ZP	18	11
31176	NUT,NYLOCK,3/8,UNC,ZP	20	13
31176	NUT,NYLOCK,3/8,UNC,ZP	24	11
31176	NUT,NYLOCK,3/8,UNC,ZP	25	10
31176	NUT,NYLOCK,3/8,UNC,ZP	27	5
31178	NUT,NYLOCK,5/8,UNC,ZP	18	12
31234	WASHER,SPFLAT,25/64X1-1/2X.083,ZP	14	18
31236	WASHER,FLAT,1/2,ZP	18	8
31236	WASHER,FLAT,1/2,ZP	24	9
31236	WASHER,FLAT,1/2,ZP	30	12
31236	WASHER,FLAT,1/2,ZP	31	

31236	WASHER,FLAT,1/2,ZP	31	
31237	WASHER,FLAT,1/4,ZP	14	25
31237	WASHER,FLAT,1/4,ZP	20	12
31237	WASHER,FLAT,1/4,ZP	22	11
31238	WASHER,FLAT,3/4,ZP	18	7
31244	WASHER,LOCK,1/2,ZP	24	10
31245	WASHER,LOCK,1/4,ZP	14	17
31319	WASHER,LOCK,3/8,ZP	14	17
31319	WASHER,LOCK,3/8,ZP	14	19
31319	WASHER,LOCK,3/8,ZP	25	7
31337	BOLT,HEX,5/8X4,UNC,GR5,ZP	18	6
31351	WASHER,FLAT,3/8,ZP	14	26
31351	WASHER,FLAT,3/8,ZP	18	9
31351	WASHER,FLAT,3/8,ZP	20	10
31479	BOLT,HEX,3/8X1-1/4,UNC,GR5,ZP	12	
31479	BOLT,HEX,3/8X1-1/4,UNC,GR5,ZP	24	8
31479	BOLT,HEX,3/8X1-1/4,UNC,GR5,ZP	27	6
31485	NUT,HEX,3/8,UNC,GR5,ZP	14	20
31515	BOLT,HEX,1/2X2,UNC,GR5,ZP,FT	14	16
31536	WASHER,FLAT,3/16,ZP	20	11
31544	BOLT,HEX,3/8X2-3/4,UNC,GR5,ZP	24	6
31593	CLIP,AUTOMOTIVE,1/4,GR5,ZP	22	14
31598	RIVET,ST,1/8X.203,.250 HEAD	28	5
31739	RIVET,ST,3/16X.565,.375 HEAD	20	15
31781	BOLT,HEX,3/8X3-1/2,UNC,GR5,ZP	18	5
31810	GRIP,HANDLE,1-1/4IDX4-1/2	22	1
31833	HYD,THRUST BEARING	26	1
31835	HYD,WEAR PLATE	26	3
31838	HYD,ENDCOVER KIT	26	6
31840	HYD,HOUSING	26	8
31841	HYD,COOLING PLUG	26	9
31842	HYD,SHAFT	26	10
31843	HYD,DRIVE LINK	26	2
31844	HYD,ROTOR ASSEMBLY	26	4
31845	HYD,DRIVE LINK PIN	26	5
31846	HYD,BOLT,ENDCOVER	26	7
31915	BEARING,FLANGE,2BOLT,1	14	1
31915	BEARING,FLANGE,2BOLT,1	24	1
31917	PIN,HITCH,1/2X3,ZP	22	4
31938	BEARING,FLANGE,2BOLT,5/8	14	2
31940	WHEEL,ASSM,570X8,3/4X4 BEARING	18	1
31941	TIRE,CASTER,SWIVEL,410/350X4,4PLY	20	2
31941	TIRE,CASTER,SWIVEL,410/350X4,4PLY	21	7
31942	BOLT,U,SQ,1/2-13X5X4-1/2	30	8
31942	BOLT,U,SQ,1/2-13X5X4-1/2	31	
31942	BOLT,U,SQ,1/2-13X5X4-1/2	31	
31943	BUMPER,AD-BACK,PVC,0.83DX1/4T,BLK	30	9
31943	BUMPER,AD-BACK,PVC	32	
31949	PIN,HITCH,SAFETY,3/4X4	30	10
31986	HYD,MOTOR,SEAL,WHITE	26	12
32017	HYD,FIT,ADAPTER,8FP-10MB	25	4

32082	HYD,FIT,ADAPTER,8MP-8MP	25	5
32735	SEAL KIT	26	11
32975	HYD,VALVE,CONTROL,FLOW,8FP	25	3
33020	BELT,15",REPLACEMENT,1'	16	6
37998	BOLT,CARR,1/4X3/4,UNC,GR5,ZP	14	24
37998	BOLT,CARR,1/4X3/4,UNC,GR5,ZP	20	9
50285	HYD,KIT,AUGER,CONVEYOR	24	3
50510	WLDT,PIVOT,MOUNT	12	
50510	WLDT,PIVOT,MOUNT	27	1
54000	HOPPER,CONVEYOR,18,ASSM	20	1
54004	UNDERCARRIAGE,TRANSFER	18	2
54005	FRAME,TRANSFER	14	3
54006	LOCK,TRANSPORT,TRANSFER	22	5
54007	HITCH,TRANSFER	22	6
54008	PIVOT,TRANSFER	27	2
54010	MOTOR MOUNT,TRANSFER	24	2
54012	ROLLER,DRIVE,TRANSFER,ASSM	14	4
54013	ROLLER,DISCHARGE,3-1/2X15	14	5
54014	BOLT,EYE,1/2X5X1DIA,WELDED	14	6
54023	HOOK,ASSM. TRANSFER,TRANSPORT	30	1
54023	HOOK,ASSM,TRANSFER,TRANSPORT	32	
54024	ROLLER,TRANSFER,TRANSPORT	30	2
54024	ROLLER,TRANSFER,TRANSPORT	31	
31773-01	STRAP,RUBBER	22	2
31773-04	PIN	22	3
31940-1	WHEEL,STEEL,5.70X8	19	1
31940-2	TIRE,5.70X8	19	2
31940-3	TR-413 VALVE	19	3
31940-4	2 1/4" NEEDLE BEARING	19	4
31940-5	1" NEEDLE BEARING	19	5
31940-6	RETAINER BUSHING	19	6
31941-1	YOKE/SWIVEL ASSEMBLY	21	1
31941-2	HUB,C/W_ BEARINGS&TIRE	21	2
31941-3	1/2"IDX1.375"OD_ BALLBEARINGS	21	3
31941-4	TIRE,410/350X4,2 PLY	21	4
31941-5	TUBE,410/350X4	21	5
31941-6	USE ONE 31028 AND ONE 31173	21	6
E4171	DECAL,CAUTION,READ	28	2
E5955	SHT,PAN,CHARGE,CENTER	14	7
E5961	COVER,TRANSFER	22	7
E6008	JACK,SCREW,TRANSFER	18	3
E6017	COUPLER,TRANSFER	24	4
E6018	SHAFT,5/8X15-3/4,TAPPED 3/8 UNC	14	8
E6020	BUSHING,13/32X1X1L	14	9
E6021	SHT,STRIPPER,TRANSFER	22	8
E6023	SHT,BACKING,HOPPER,FRT,TRANSFER	20	3
E6024	SHT,BACKING,STRIPPER,TRANSFER	14	10
E6025	BELT,120PIW,PVC,15",TRANSFER	14	11
E6027	SKIRT,TRANSFER,DISCHARGE	14	12
E6028	DECAL,TRANSFER,1600	28	3
E6030	RUBBER,EXTENSION,HOPPER,TRANSFER	20	4

E6031	SKIRT,TRANSFER,SIDE,HOPPER	20	5
E6032	SKIRT,TRANSFER,HOPPER,FRONT	20	6
E6033	PLT,LOCK,HITCH,TRANSFER,TRANSPORT	30	3
E6033	PLT,LOCK,HITCH,TRANSFER,TRANSPORT	31	
E6036	LOOP,TRANSFER,TRANSPORT	30	4
E6036	LOOP,TRANSFER,TRANSPORT	31	
E6046	DISK,UHMW,4-1/2ODX9/16IDX1/4T	30	5
E6046	DISK,UHMW,4-1/2ODX9/16IDX1/4T	31	
E6048	BRACKET,ROLLER,TRANSPORT,LEFT	30	6
E6048	BRACKET,ROLLER,TRANSFER TRANSPORT,LEFT	31	
E6049	BRACKET,ROLLER,TRANSPORT,RIGHT	30	7
E6049	BRACKET,ROLLER,TRANSFER TRANSPORT,RIGHT	31	
E6051	DECAL,T_TRANSPORT, DO NOT LIFT	28	4
E6275	GUARD,COUPLER,HYDRAULIC DRIVE	24	5
E6499	BEARING,FLANGE,2BOLT,1	14	2

## **6.0 Specifications**

### **Transfer Conveyor**

<i>Weight</i>	<i>570 lbs (Hydraulic Drive)</i>
<i>Travel Length</i>	<i>20'</i>
<i>Total Width</i>	<i>47-1/2"</i>
<i>Max. Working Height</i>	<i>42"</i>
<i>Transport Height</i>	<i>51"</i>
<i>Hydraulic Pressure</i>	<i>2000 psi (13.8 MPa)</i>
<i>Hydraulic Flow</i>	<i>13 gpm (49 L/min)</i>

**Dealer Information**

Dealer: \_\_\_\_\_

Address: \_\_\_\_\_

City: \_\_\_\_\_

Province / State: \_\_\_\_\_

Postal Code / Zip Code: \_\_\_\_\_

Phone: \_\_\_\_\_



**Identification Numbers**

Model Number: \_\_\_\_\_

Serial Number: \_\_\_\_\_



## Dealer Checklist

Transfer Conveyor Dealer Checklist

Checked	Check List Item
	Verify all bolts tight and no loose bolts or other debris sitting on belt.
	Verify serial number plate attached.
	Manual lift, slow down. Cycle through lift a minimum of 2 times.
	Check hydraulic motor driving the belt for proper rotation, leaks and possible interference.
	Inspect conveyor belt rollers for condition and correct installation.
	Belt alignment to be adjusted at Intake Roller, and Discharge Roller.
	Conveyor must be run through complete operating range, up to 12 gpm.
	Check for excessive belt wear on both sides of belt.
	Check tire pressure and adjust as required, (as specified on tire).
	Ensure transport lock functions correctly.
	Grease main wheel bearings.

Transfer Transport Dealer Checklist:

Checked	Check List Item
	Verify all bolts tight and no loose bolts or other debris sitting on belt.
	Deck Placement.
	Load and unload Transfer Conveyor.