

700 Bale Mover

2002 Owner's Manual



Before operating the Bale Mover 700, be sure to review *all* the instructions and familiarize yourself with its features.

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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

The Bale Mover 700, a proven name in the bale handling field, is made by Highline Mfg. Inc. The Bale Mover 700 was designed to work in the most difficult of bale handling situations. A little time and effort will ensure the performance and durability of your Bale Mover.

This manual has been prepared to provide the information necessary for the safe and efficient operation of your Bale Mover. 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 those changes and add improvements when practical to do so without incurring any obligation to make such changes on machines previously sold.

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 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. thanks and congratulates you for selecting the Bale Mover 700 as the machine for your bale handling needs.

*Chuck Lepage, President
Highline Mfg. Inc.*

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

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

Safety Precautions

WORK SAFELY – FOLLOW THESE INSTRUCTIONS

CAREFUL OPERATION IS THE BEST INSURANCE AGAINST AN ACCIDENT!

- Always disengage the hydraulic motors before dismounting tractor.
- Keep yourself and others clear of rotating parts to prevent injury.
- Never allow anyone to stand near the Bale Mover while loading or unloading bales.
- Never attempt to manually remove bales from rails while hydraulic motors are engaged. Disconnect hydraulic motors before cleaning the Bale Mover.
- Remove transport locks before lowering forks. To remove transport locks, raise forks to slacken the transport chain and then remove the transport pin. **DO NOT** lower the forks when transport locks are in position otherwise **SEVERE DAMAGE WILL OCCUR!**
- Relieve pressure in hydraulic lines before disconnecting lines or performing maintenance on the hydraulic system.

1.0 Operating Instructions

1.1 Pre-Start Instructions

Transport chains need to be removed before operation of the forks. To remove transport chains, raise forks slightly and remove transport pins. DO NOT lower forks when transport chains are in position otherwise severe damage WILL occur.

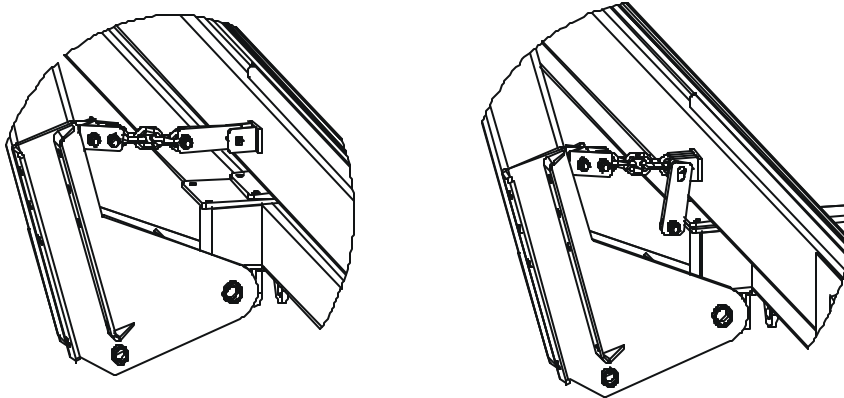


Figure 1 - Locks in Transport Position

1.2 Transporting Instructions

To ensure safe transport of the Bale Mover 700, forks should be in the transport position with the transport chains in place. To put transport chains in place, raise the forks until the transport pin can be put in place safely. Lower forks to take the slack up in the transport chains.

1.3 Bale Size Adjustment

The bale size is adjustable through the fork adjusting tube. By moving the forks (Figure 2), you adjust for the correct size of bale.

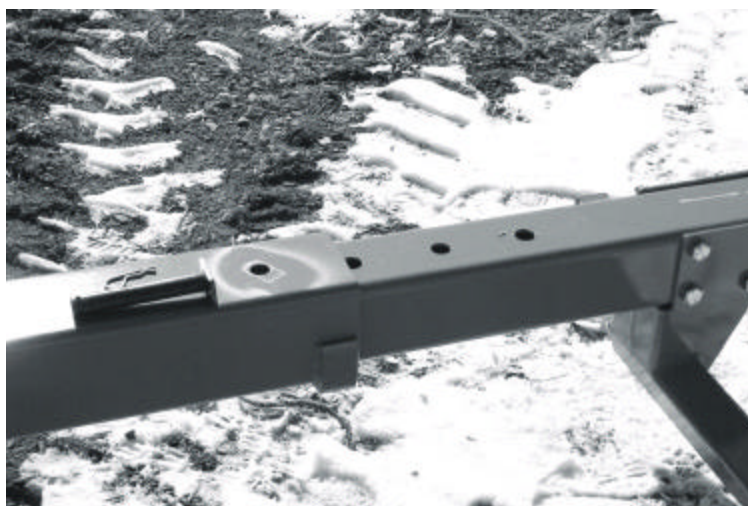


Figure 2 – Adjusting Forks

1.4 Field Instructions

For proper operation, the Bale Mover 700 should run at a field speed of 3-4 mph (4.8-6.5 km/h). When picking bales, a full stop is not required. Bales are picked and placed on the bed continuously by lifting the bale into position and moving the preceding bales back to fit the new bale on.

2.0 Maintenance Instructions

To ensure a long operating life of your Bale Mover 700, follow these maintenance procedures.

- Periodically check tire air pressure to maintain equal tire pressure. The operating tire pressure should be 90 psi.
- Periodically check all bolts for tightness.
- Periodically check the chain tightener. The chain should be just off the bottom of the rail. This can be seen through the sight hole in the rail.
- Grease the following points as described.

2.1 Grease Locations



Figure 3 - Pivot Arm Grease Location

Grease No	Description	Frequency
1	Arm, Pivot, Right	Daily

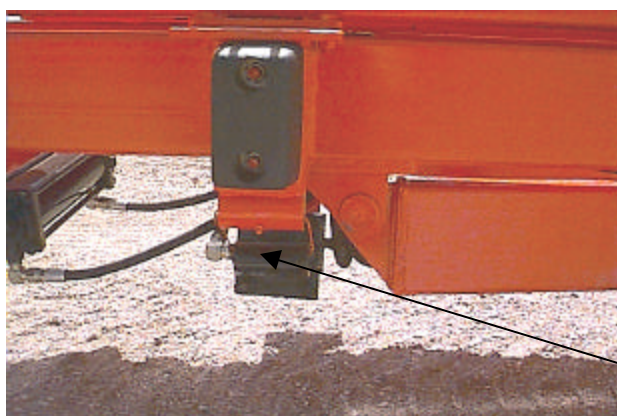
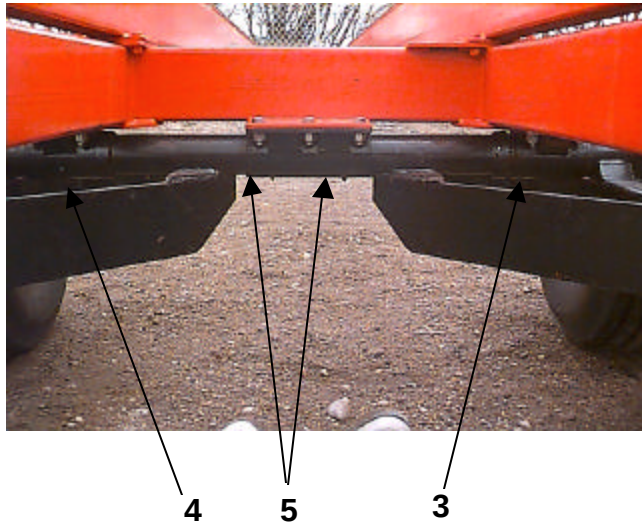


Figure 4 - Pivot Slide Arm Grease Location

Grease No	Description	Frequency
2	Arm, Slide, Pivot, Right	Daily



Grease No	Description	Frequency
3	Pocket, Beam Walking, Left,	Weekly
4	Pocket, Beam Walking, Right	Weekly
5	Pocket, Beam Walking, Middle	Weekly

Figure 5 - Oscillating Tandem Grease Location

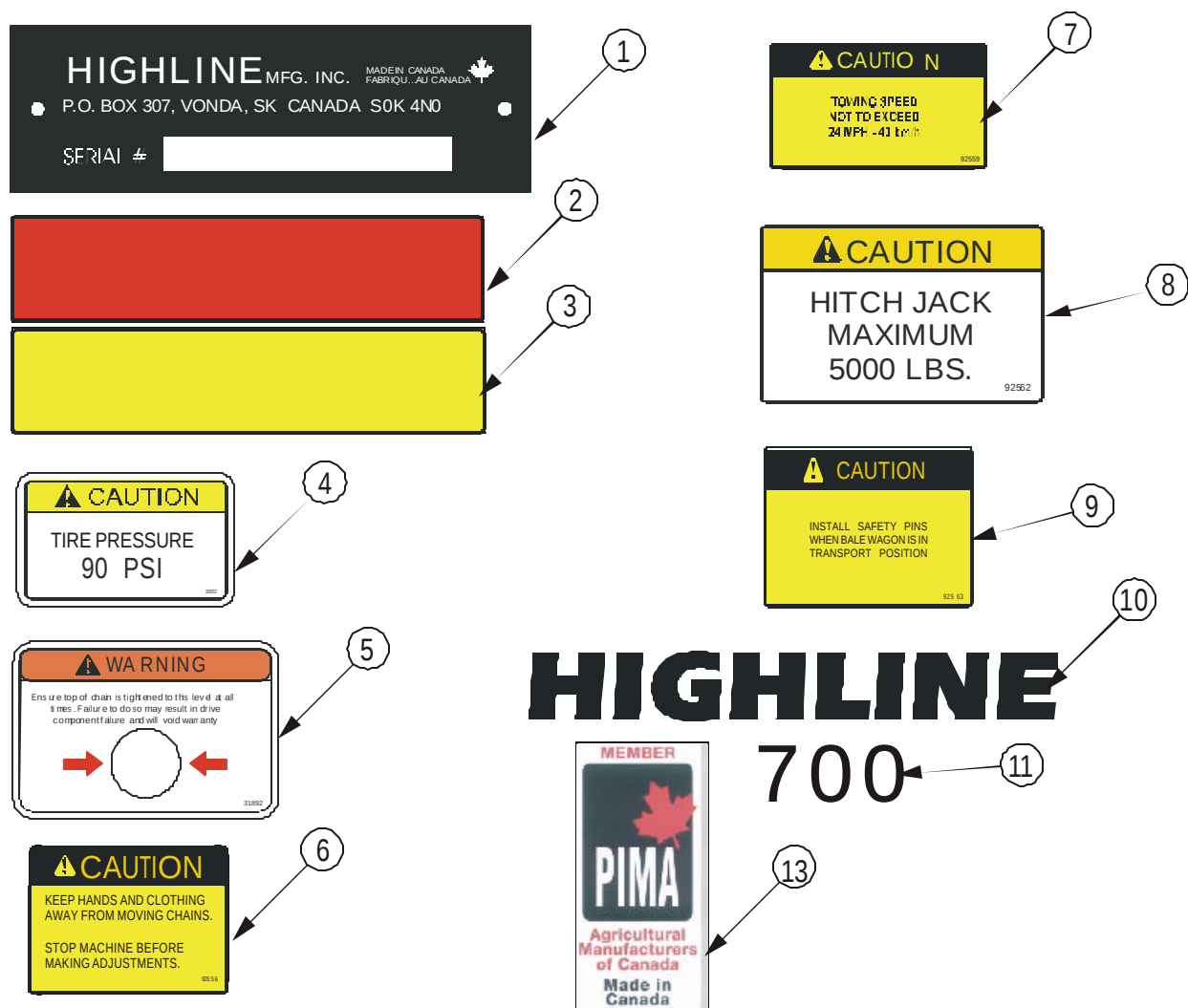


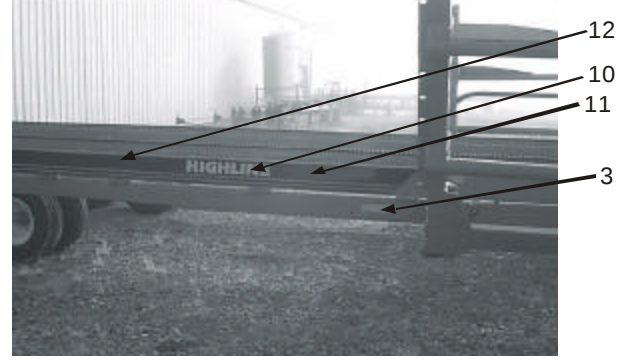
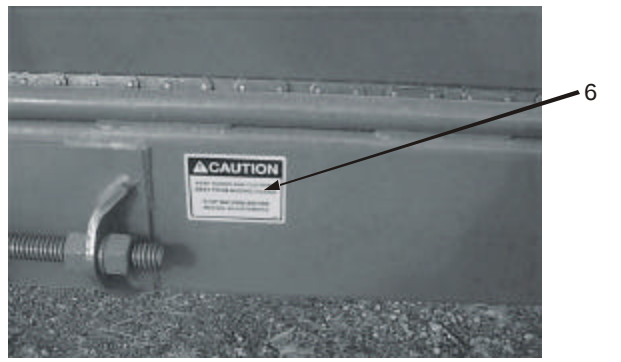
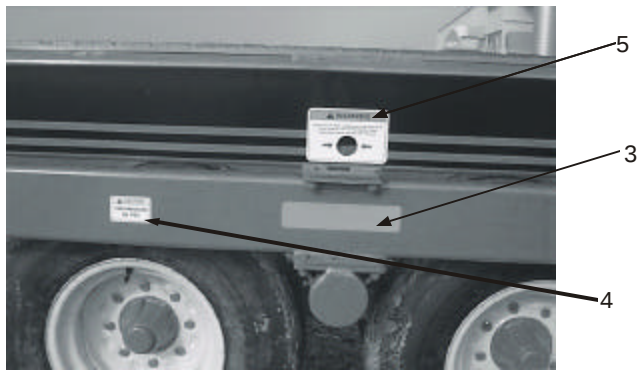
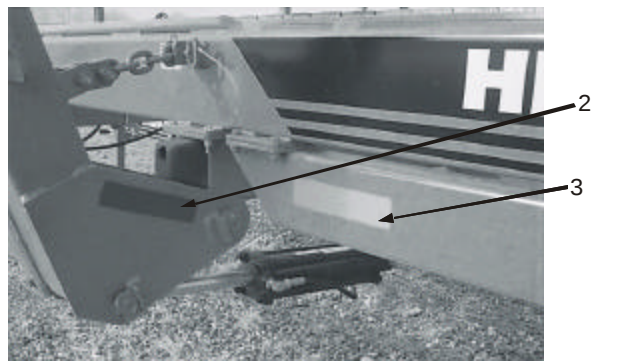
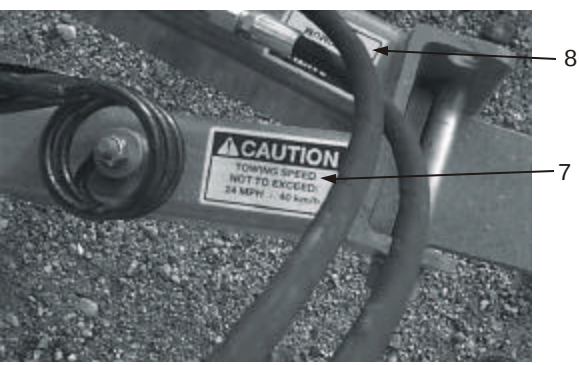
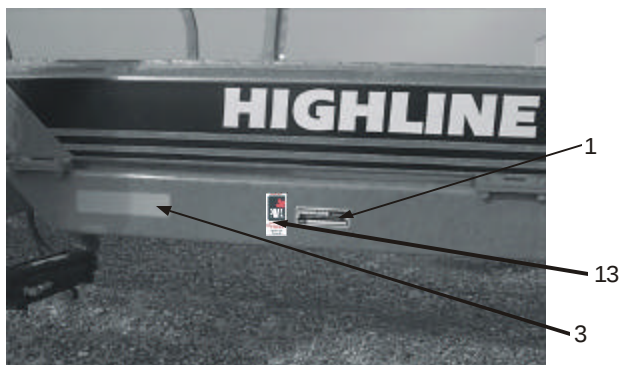
Grease No	Description	Frequency
6	Pin, Sprocket, Rear, Left,	Weekly
7	Pin, Sprocket, Rear, Right,	Weekly

Figure 6 - Rear Sprocket Pin

3.0 Decal Assembly (Part No. 45256)

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	30208	PLT,SERIAL#	1
2	30577	DECAL,RED REFL,2X9	2
3	30578	DECAL,AMBER REFL,2X9	9
4	30652	DECAL,CAUTION,TIRES,90PSI	2
5	31892	DECAL, WARNING,TENSION,CHAIN	2
6	92556	DECAL,CAUTION,MOVINGCHAIN	2
7	92559	DECAL,CAUTION,TOWSPEED	1
8	92562	DECAL,WARNING,HITCH,JACK	1
9	92563	DECAL,CAUTION,INSTALLPIN	1
10	92583	DECAL,HIGHLINE,3-1/2	4
11	92585	DECAL,700	4
12	92586	DECAL,PINSTRIPPING,7	52
13	32981	DECAL,PIMA	1

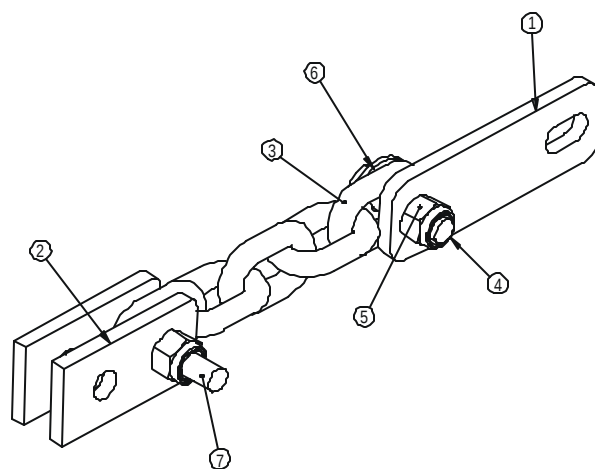
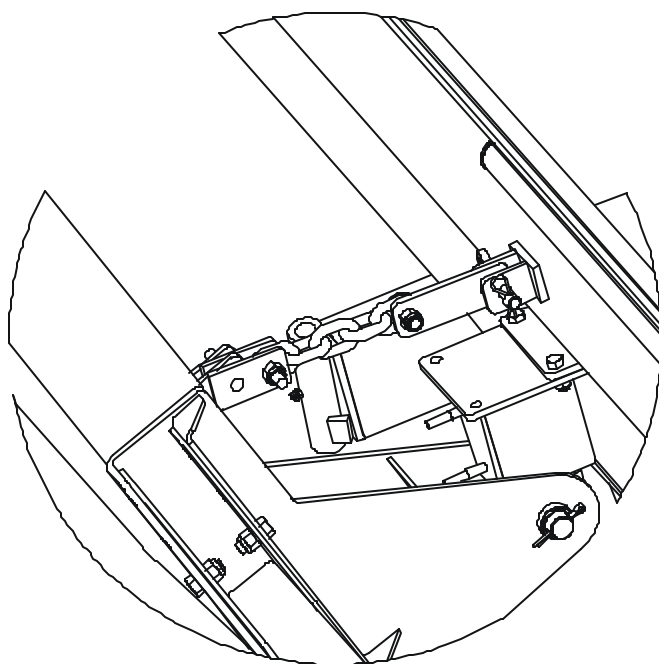




4.0 Parts Information

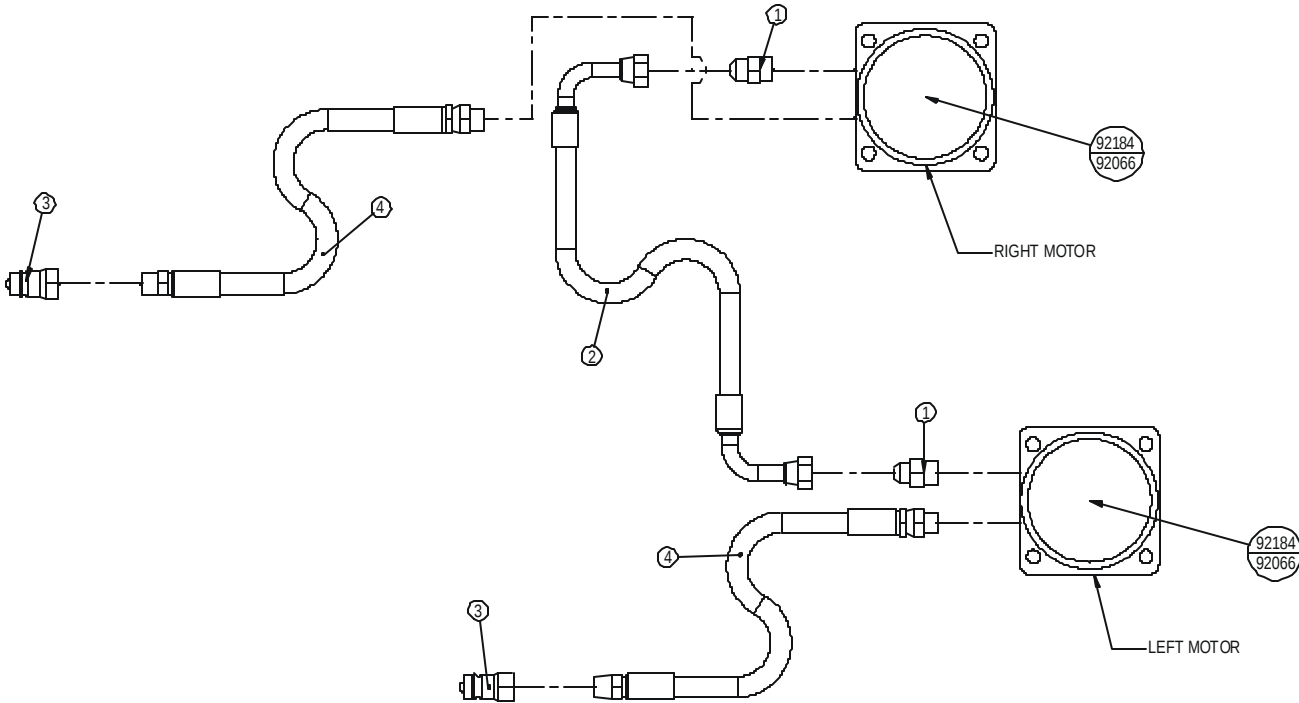
4.1 Fork Chain Assembly (Part No. 42078)

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	E4496	LUG, EXTENSION, CHAIN, TRANS	1
2	E5652	LUG, EXTENSION	2
3	E5653	CHAIN, LINK, 1/2, GR40, 5 LINKS	1
4	31052	BOLT,HEX,5/8X2,UNC,GR5,ZP	1
5	31178	NUT,NYLOCK,5/8,UNC,ZP	2
6	31240	WASHER,FLAT,5/8,ZP	1
7	31336	BOLT,HEX,5/8X3,UNC,GR5,ZP	1



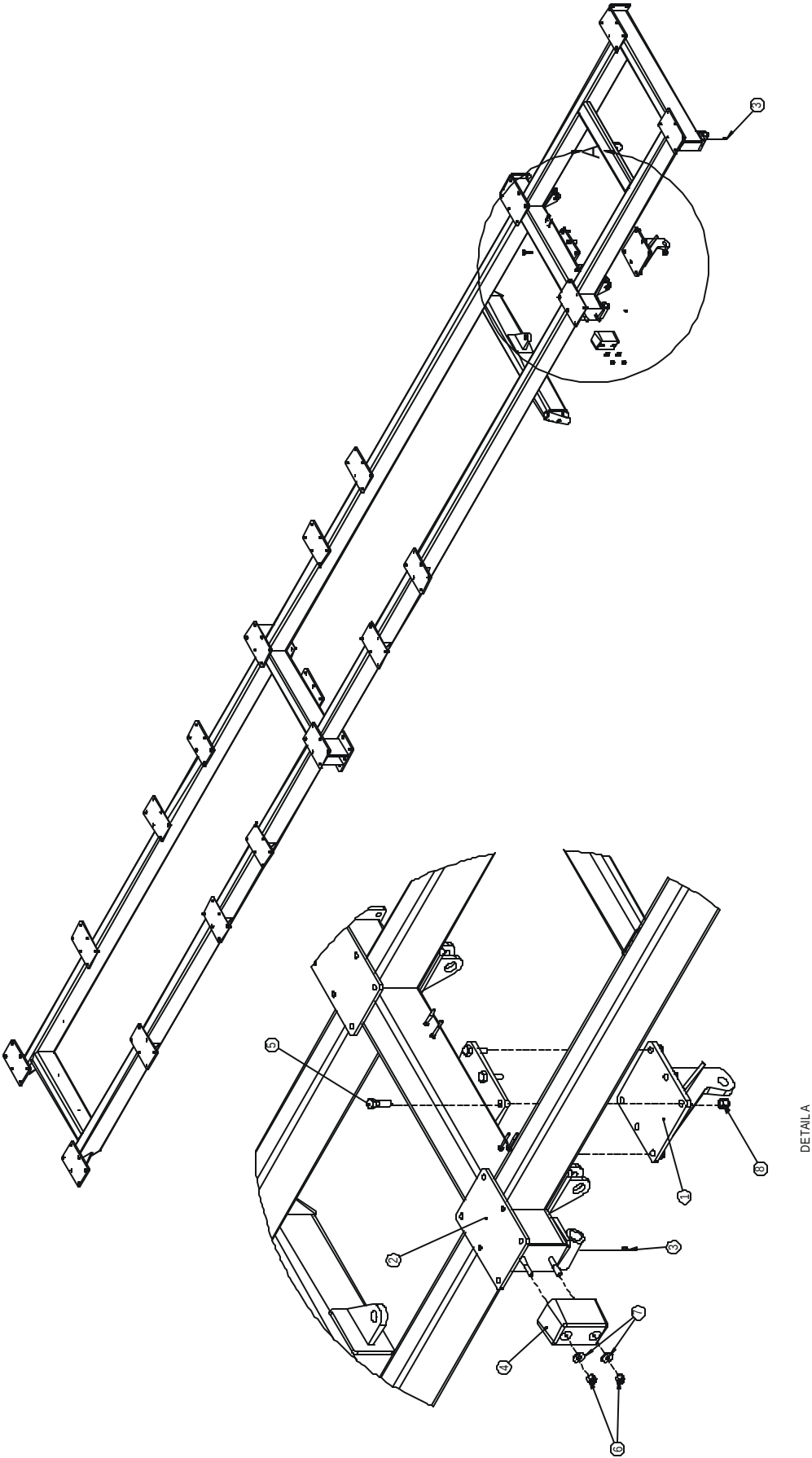
4.2 Hydraulic Motor Schematic (Part No. 42077)

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	30204	HYD,FIT,ADAPTER,10MB-8MJ	2
2	30205	HYD,HOSE,1/2X57,8FJ90TL,1W	1
3	30209	HYD,FIT,PIONEER,MALE,8FP	2
4	90310	HYD,HOSE,1/2X96,10MB-8MP,1W	2



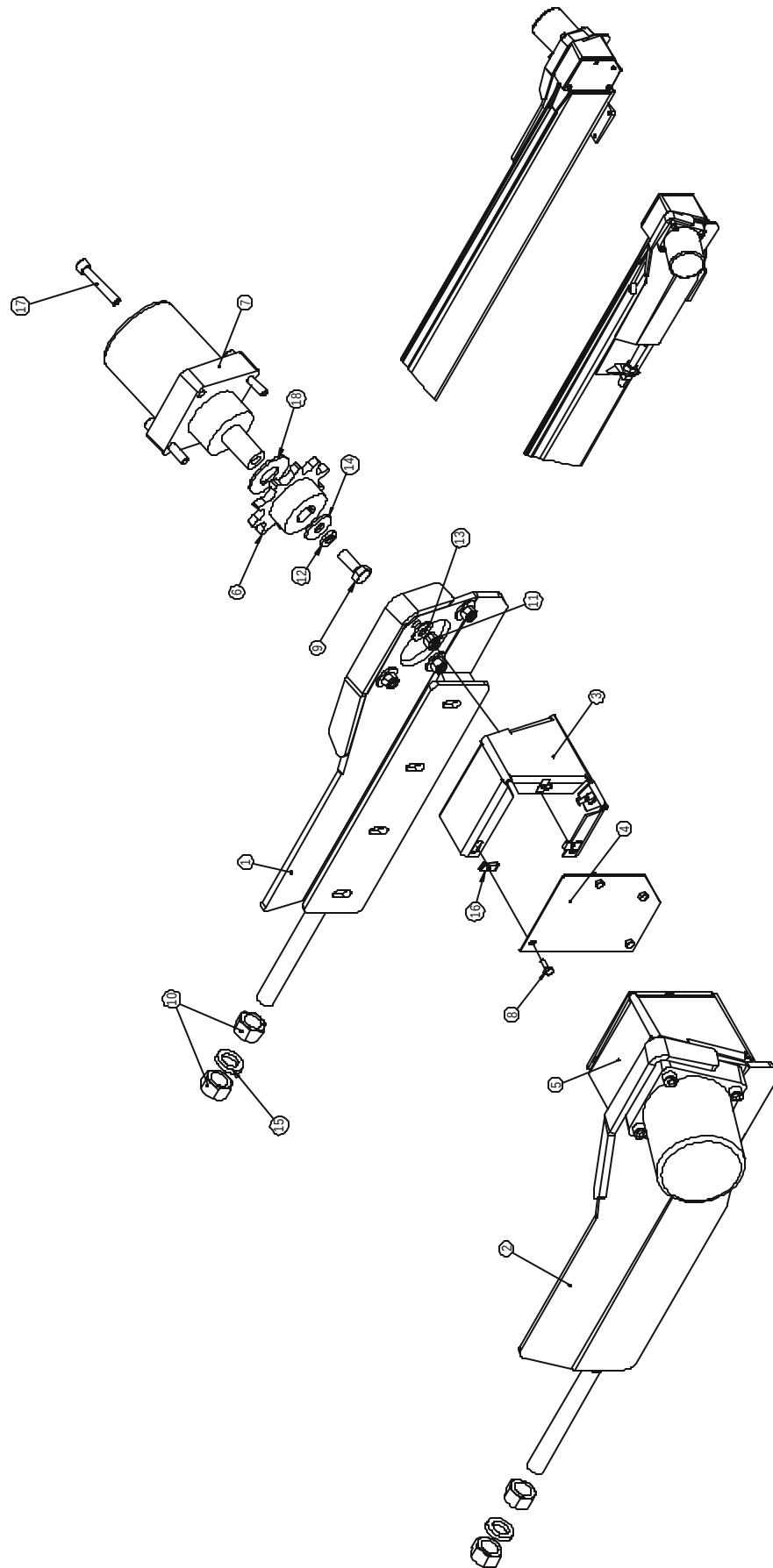
4.3 Frame Assembly (Part No. 42075)

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	40140	BRACKET,CYLINDER	1
2	45233	FRAME,7BM	1
3	30207	ZERK,1/4-28,GF641,STRAIGHT	2
4	92061	BUMPER,RUBBER	1
5	31052	BOLT,HEX,5/8X2,UNC,GR5,ZP	6
6	31173	NUT,NYLOCK,1/2,UNC,ZP	2
7	31241	WASHER,FLAT,7/16,ZP	2
8	31178	NUT,NYLOCK,5/8,UNC,ZP	6



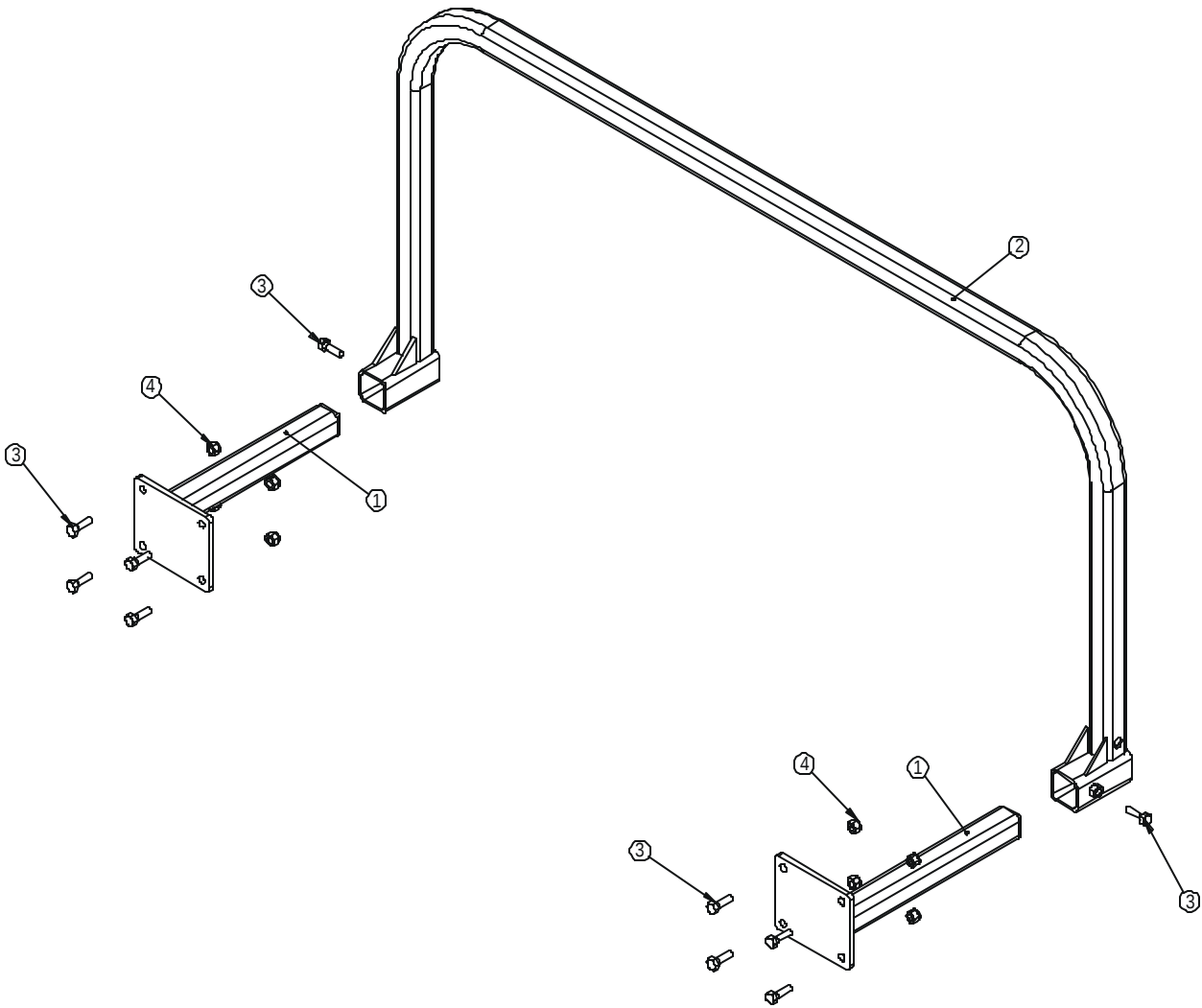
4.4 Motor Assembly (Part No. 42073)

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	40115	TIGHTENER,MOTOR,LEFT	1
2	40116	TIGHTENER,MOTOR,RIGHT	1
3	E4802	HOUSING,GUARD,RIGHT	1
4	E4803	PLT,S,FACE,GUARD	2
5	E4810	HOUSING,GUARD,LEFT	1
6	92063	DRV,SPROCKET,2062,10TOOTH,1-1/4	2
7	92184	HYD,MOTOR,45,2000PSI	2
8	31033	BOLT,HEX,1/4X3/4,UNC,GR5,ZP	8
9	31051	BOLT,HEX,5/8X1-1/2,UNC,GR5,ZP	2
10	31159	NUT,ACME,1,5TPI,RH	4
11	31173	NUT,NYLOCK,1/2,UNC,ZP	8
12	31218	WASHER,LOCK,5/8,ZP	2
13	31236	WASHER,FLAT,1/2,ZP	8
14	31240	WASHER,FLAT,5/8,ZP	2
15	31243	WASHER,LOCK,1,ZP	2
16	31593	CLIP,AUTOMOTIVE,1/4,GR5,ZP	8
17	31797	BOLT,SOCKET,1/2X2-3/4,UNC,G R5	8
18	32071	WASHER,FLAT,1-1/4	2



4.5 Bale Divider Assembly (Part No. 42072)

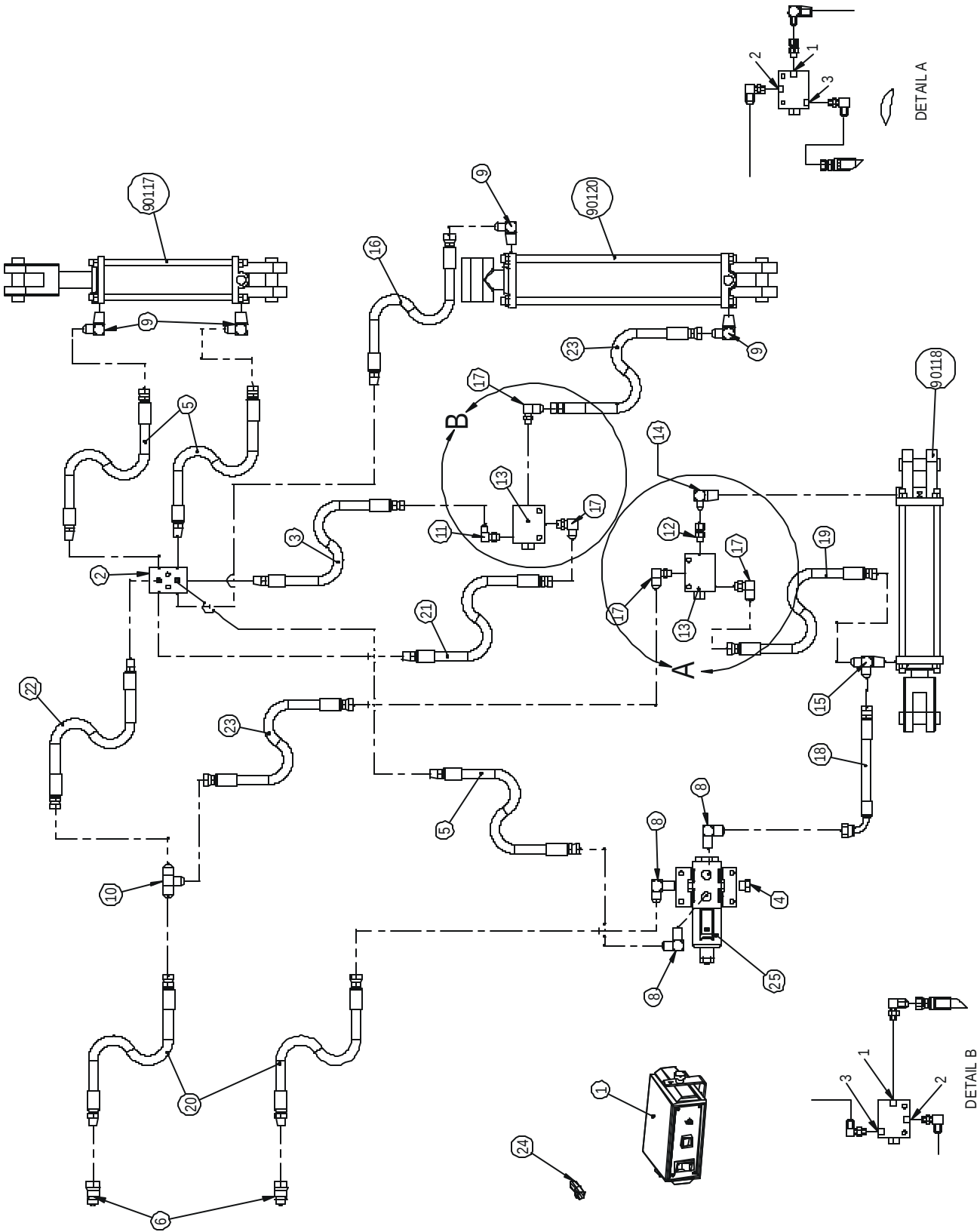
ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	40085	ARM,DIVIDER,BALE	2
2	45016	DIVIDER,BALE	1
3	31016	BOLT,HEX,1/2X1-1/2,UNC,GR5,ZP	10
4	31173	NUT,NYLOCK,1/2,UNC,ZP	8

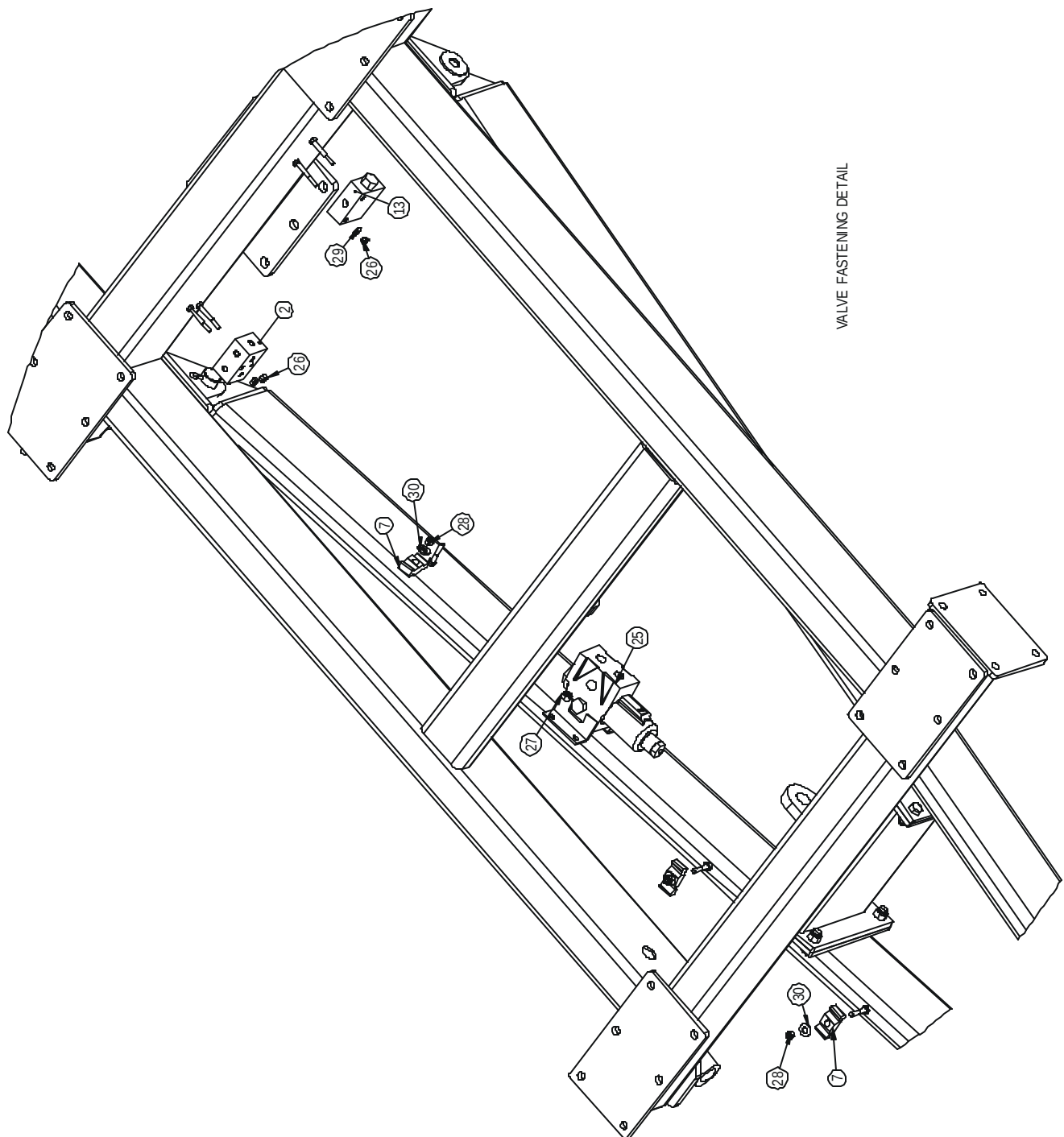


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4.6 Hydraulic Cylinder Schematic (Part No. 42066)

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	40102	ELEC_BOX,CONTROL,5&7BM	1
2	E4726	BLOCK,TEE,HYD	1
3	30198	HYD,HOSE,3/8X18,6FJX-6MP,1W	1
4	30200	HYD,FIT,PLUG,8MB	1
5	30201	HYD,HOSE,3/8X44,8FJX-6MP,1W	3
6	30209	HYD,FIT,PIONEER,MALE,8FP	2
7	30210	HYD,CLAMP,HOSE,1/2	3
8	30211	HYD,FIT,ELBOW,8MB-8MJ90	3
9	30212	HYD,FIT,ELBOW,8MP-8MJ90	4
10	30313	HYD,FIT,TEE,8MJ-8MJ-8MJ	1
11	30390	HYD,FIT,ELBOW,6MB-6MJ90	1
12	30581	HYD,FIT,ADAPTER,6FJX-6MB	1
13	30653	HYD,CHECK,PILOT,3X6MB	2
14	30580	HYD,FIT,ELBOW,8MP-6MJ90	1
15	32035	HYD,FIT,TEE,8MP-8MJ-8MJ	1
16	32055	HYD,HOSE,3/8X19,6MP-8FJX,1W	1
17	32079	HYD,FIT,ELBOW,6MB-8MJ90	4
18	33233	HYD,HOSE,3/8X10,8FJX-8FJX90T,1W	1
19	32963	HYD,HOSE,3/8X15,8FJX,2000PSI,1W	1
20	90301	HYD HOSE,3/8X120,8MP-8FJX,1W	2
21	90305	HYD HOSE,3/8X30.5,6MP-8FJX,1W	1
22	90308	HYD,HOSE,3/8X50,8FJX-6MP,1W	1
23	90313	HYD,HOSE,3/8X18,8FJX-8FJX,1W	2
24	92078	ELEC_HARNESS,CONTROL,5&7BM	1
25	92089	HYD,VALVE,SOLENOID	1
26	31174	NUT,NYLOCK,1/4,UNC,ZP	4
27	31176	NUT,NYLOCK,3/8,UNC,ZP	2
28	31177	NUT,NYLOCK,5/16,UNC,ZP	3
29	31237	WASHER,FLAT,1/4,ZP	2
30	31239	WASHER,FLAT,5/16,ZP	3

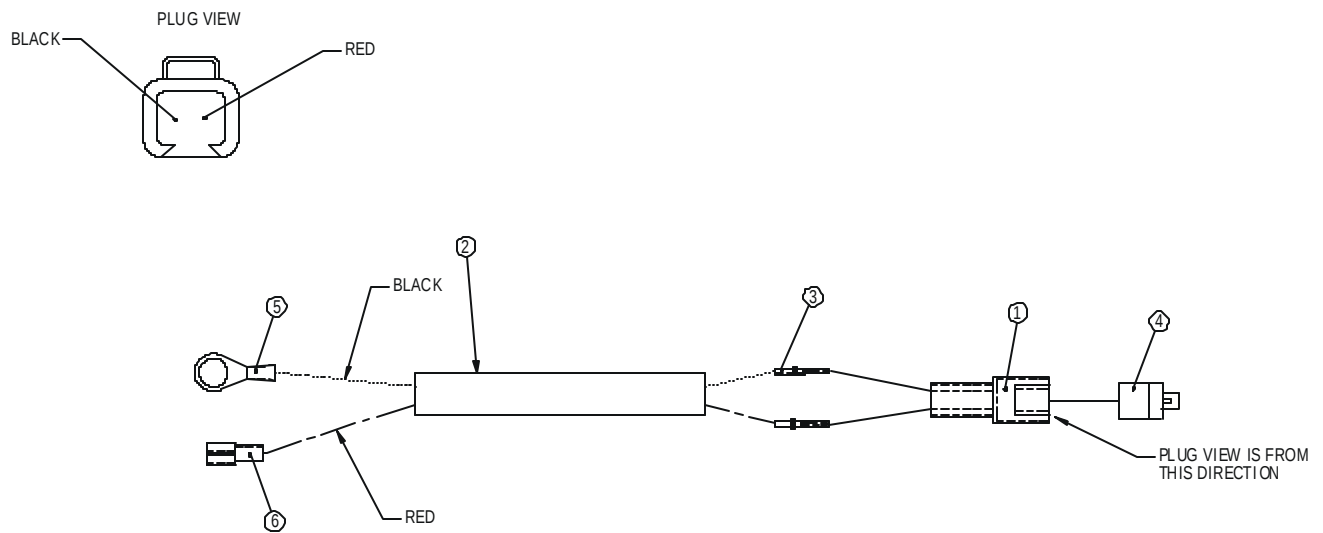




VALVE FASTENING DETAIL

4.6.1 Control Harness (Part No. 92078)

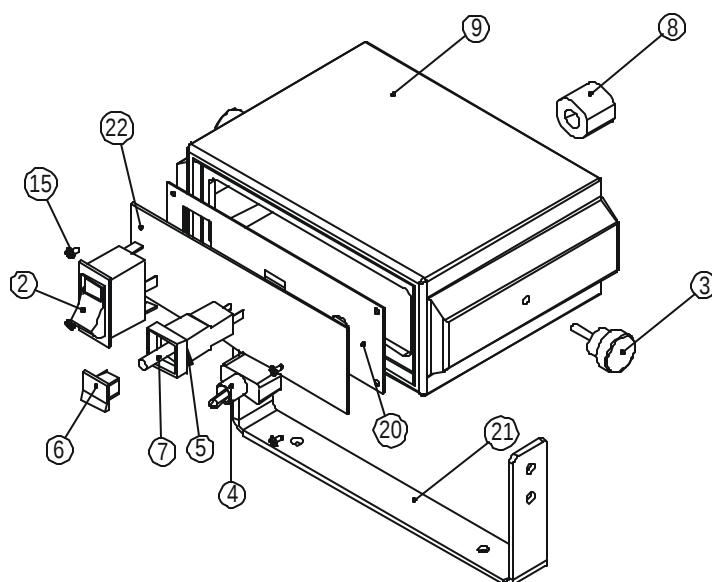
ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	92103	ELEC_CONNECTOR,M,2-PIN	1
2	92156	ELEC_WIRE,2C-16GA,STRAND,RED/BLACK	1
3	92157	ELEC_CONNECTOR,M,PIN	2
4	92159	ELEC_CONNECTOR,M,WEDGE,2PIN	1
5	92166	ELEC_CONNECTOR,RING,3/8,16-14,ST,INS	1
6	92169	ELEC_CONNECTOR,QD,250F,16-14,ST,INS	1

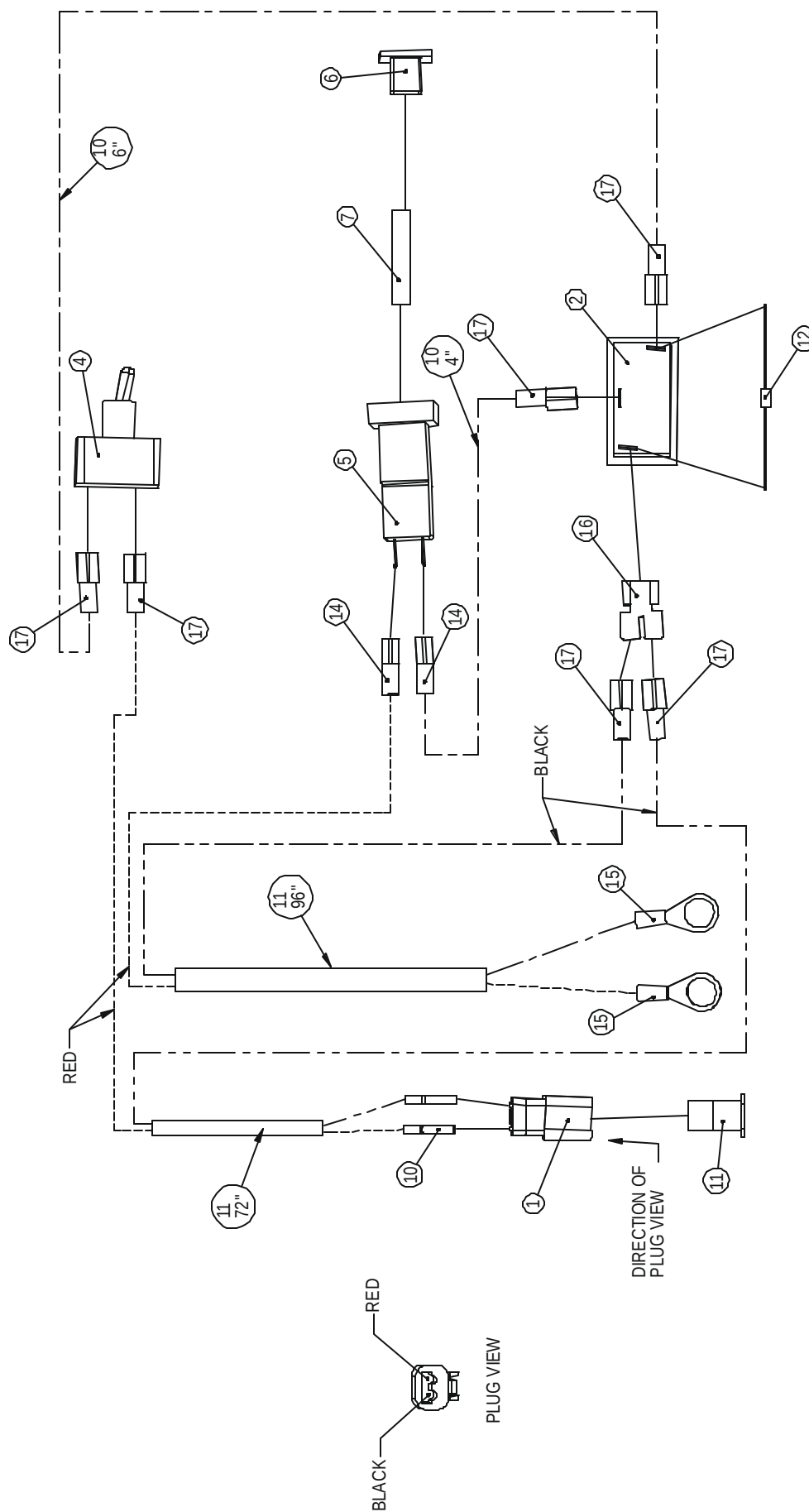


4.6.2 Electric Control Box (Part No. 40102)

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	92105	ELEC CONNECTOR,F,2-PIN	1
2	92107	ELEC SWITCH,ROCKER,3,NO	1
3	92119	SCREW,THUMB,10X3/4,UNC	2
4	92136	ELEC SWITCH,TOGGLE,2FA53-73	1
5	92138	ELEC HOLDER,BUS,BODY	1
6	92139	ELEC HOLDER,BUS,CAP	1
7	92140	ELEC FUSE,BUS,12V20A,FAST	1
8	92142	RELIEF BUSHING,1260	1
9	92146	PLASTIC,ENCLOSURE	1
10	92151(.83)	ELEC WIRE,16GA,STRAND,RED	1
11	92156(14)	ELEC WIRE,2C-16GA,STRAND,RED/BLACK	1
12	92158	ELEC CONNECTOR,F,SOCKET	2
13	92160	ELEC CONNECTOR,F,WEDGE,2PIN	1
14	92163	ELEC DIODE,12V, 20A	1
15	92164	SCREW,TAP,#4X1/4,ZP	4
16	92165	ELEC CONNECTOR,QD,188F,16-14,ST,INS	2
17	92166	ELEC CONNECTOR,RING,3/8,16-14,ST,INS	2
18	92168	ELEC CONNECTOR,ADP,1/4,F/M/M,ST,NON	1
19	92169	ELEC CONNECTOR,QD,250F,16-14,ST,INS	6
20	92221	FACEPLATE,CONTROLBOX,5&7	1
21	E4751	PLT,S,BRACKET,BOX,CONTROL	1
22	E5804	DECAL,CONTROLBOX,FACEPLT,5&7BM	1

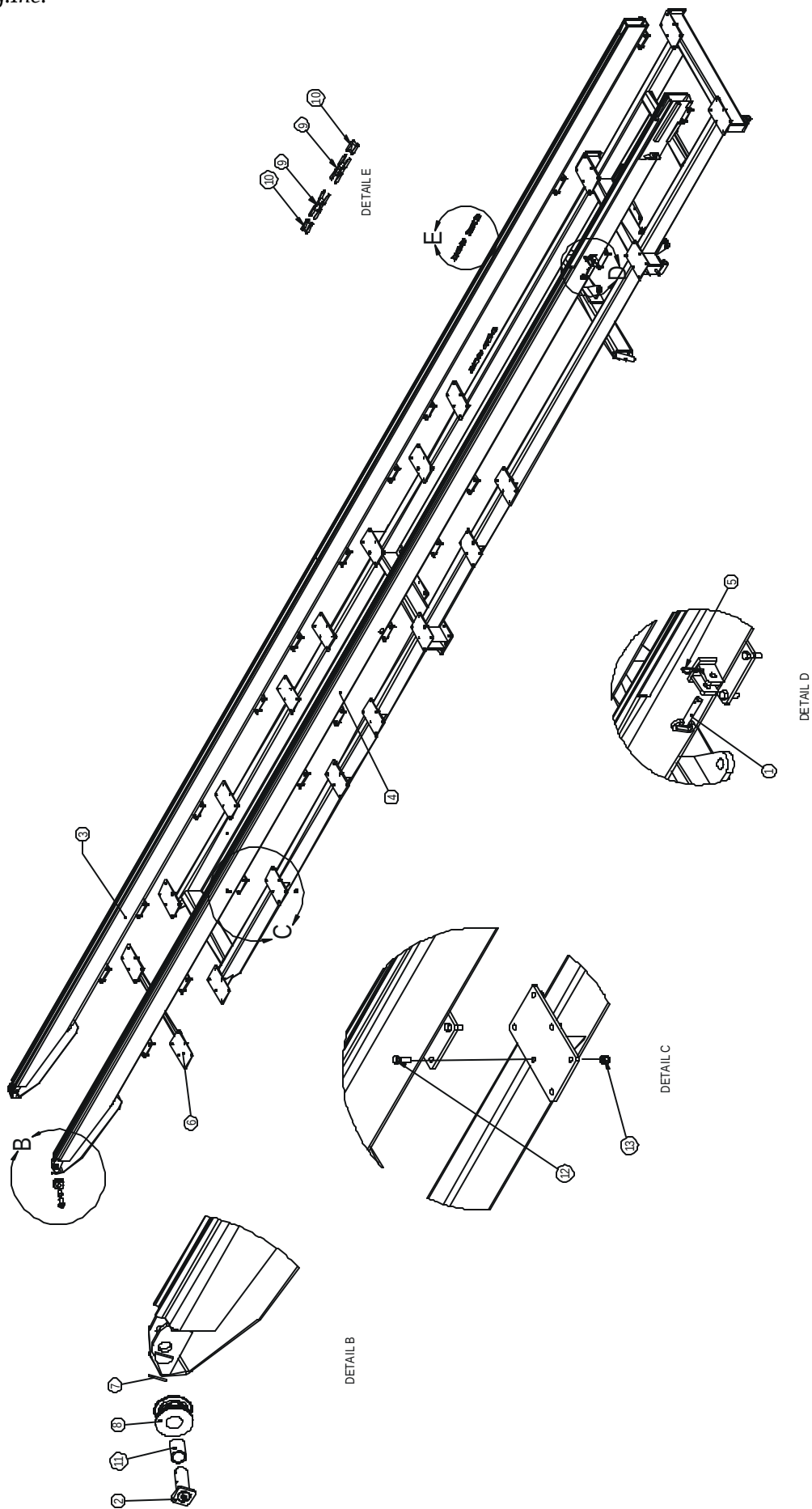
NOTE: 90137 IS A SEPARATE ASSEMBLY
OF THE WIRING HARNESS ONLY





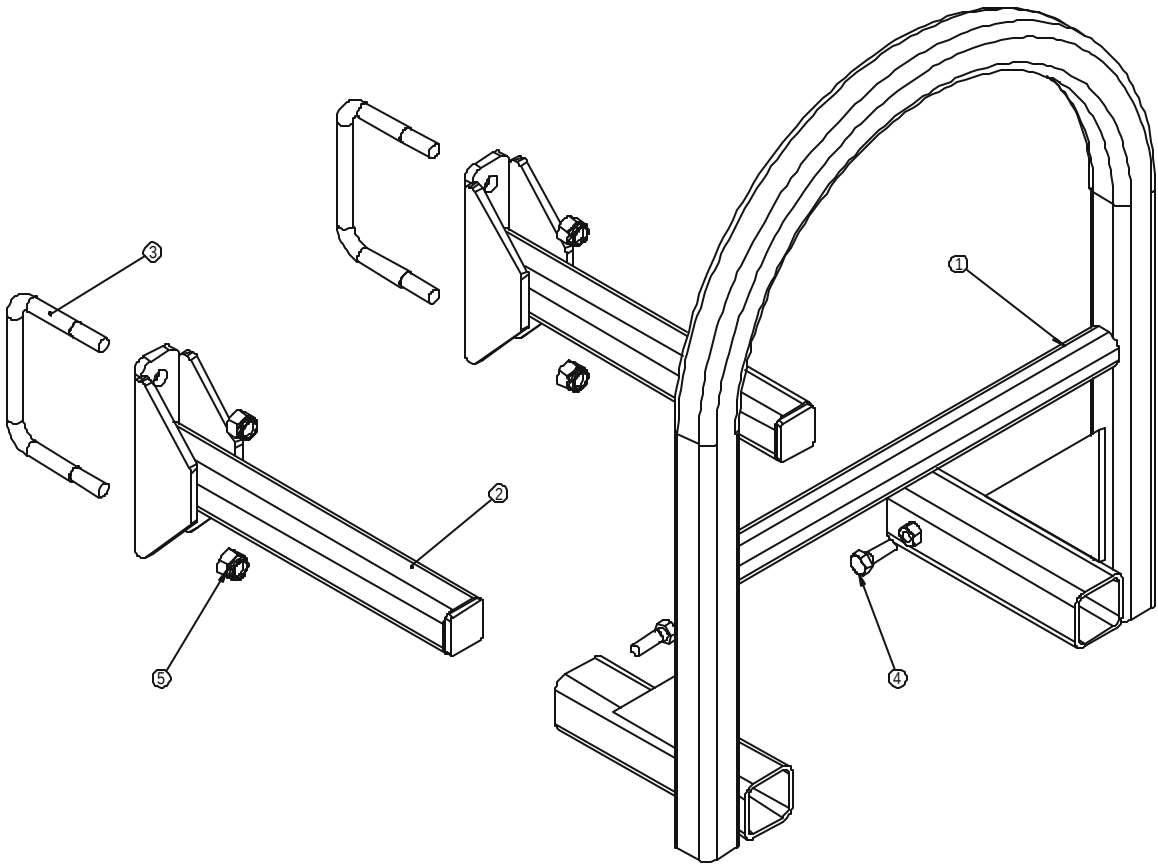
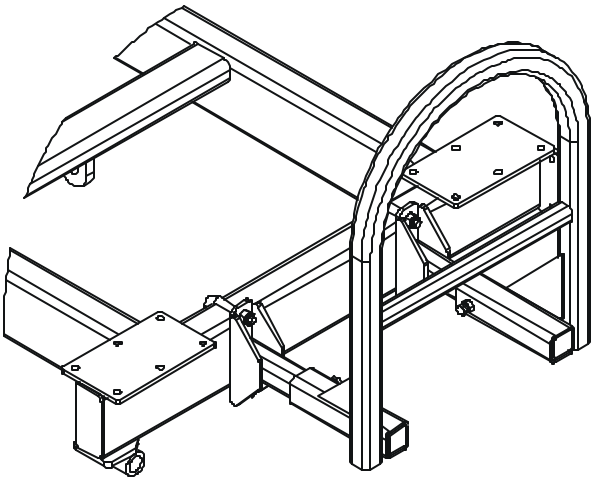
4.7 Rail Assembly (Part No. 42060)

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	40019	PIN,LOCK,SAFTEY	1
2	40121	PIN,SPROCKET,REAR	2
3	40134	RAIL,LEFT	1
4	40135	RAIL,RIGHT	1
5	42061	TETHER,1/16X14-1/2,C/W_HAIRPIN	1
6	45130	FRAME,REAR	1
7	30197	PIN,SPRING,3/16X1-1/2	2
8	30651	ROLLER,CHAIN,3ODX1-1/4ID	2
9	91508	DRV,CHAIN,ROLLER,2062H,304	4
10	91510	CHAIN,CONNECTOR,C2062	4
11	92024	DRV,BUSHING,2232400-24	2
12	31016	BOLT,HEX,1/2X1-1/2,UNC,GR5,ZP	80
13	31173	NUT,NYLOCK,1/2,UNC,ZP	80
14	E5307	LINK,ROLLER,C2064	



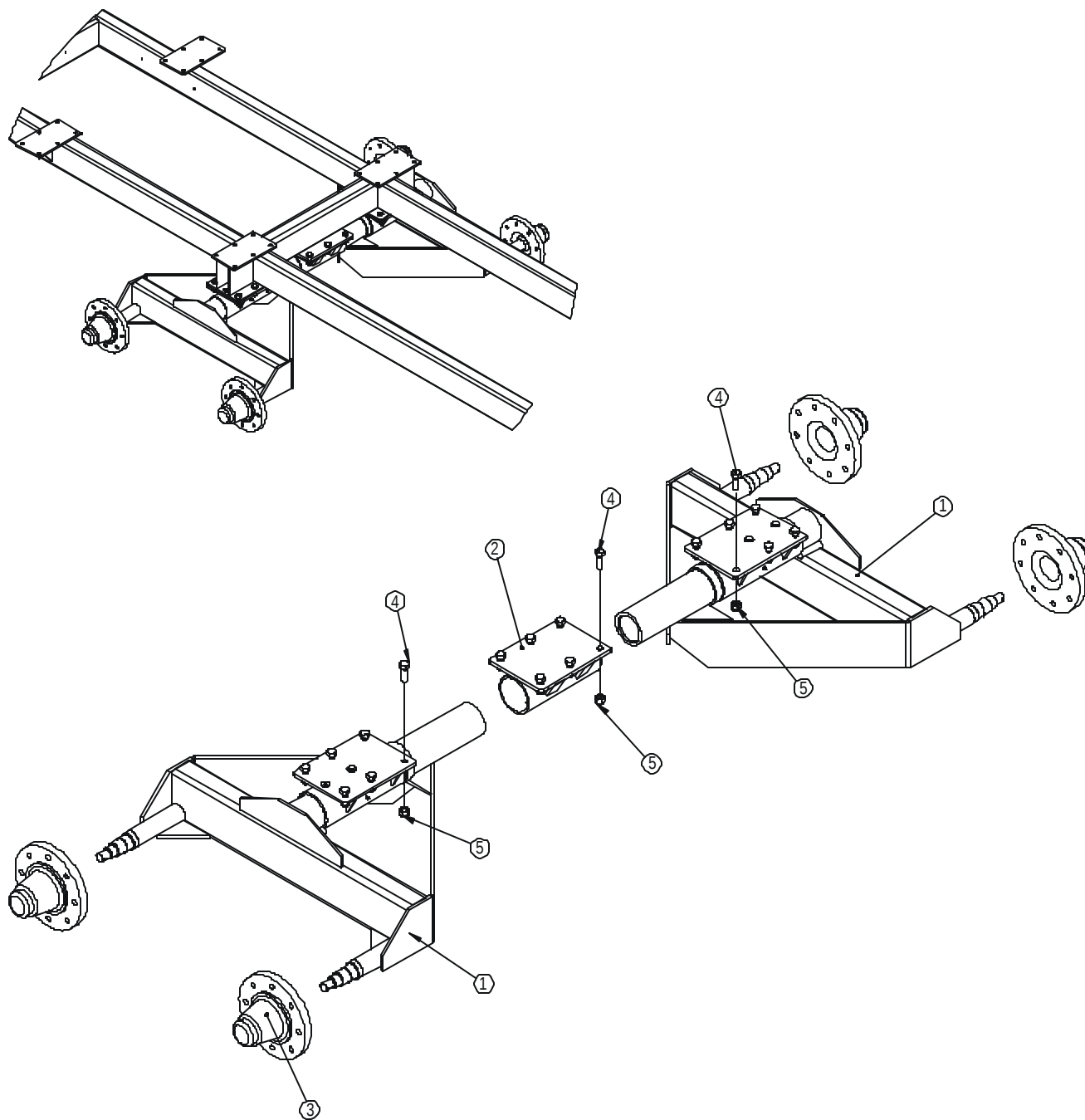
4.8 Front Bumper Assembly (Part No. 42059)

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	40088	BUMPER,BALE	1
2	40118	MOUNT,BUMPER,BALE	2
3	30269	BOLT,U,SQ,5/8-11, 6x4-1/2,1-1/2	2
4	31016	BOLT,HEX,1/2X1-1/2,UNC,GR5,ZP	2
5	31178	NUT,NYLOCK,5/8,UNC,ZP	4



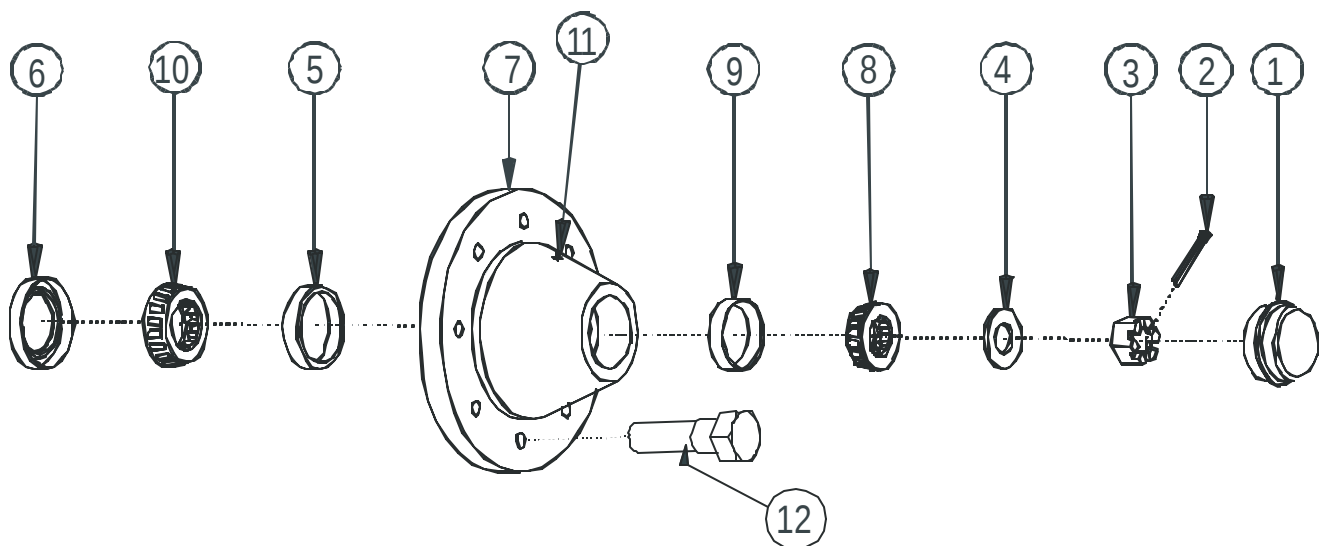
4.9 Tandem Axle Assembly (Part No. 42058)

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	45239	AXLE	2
2	45240	POCKET, AXLE, MIDDLE	1
3	30102	SUSP, HUB, COMPLETE, EM5500	4
4	31053	BOLT, HEX, 5/8X1-3/4, UNC, GR5, ZP	18
5	31178	NUT, NYLOCK, 5/8, UNC, ZP	18



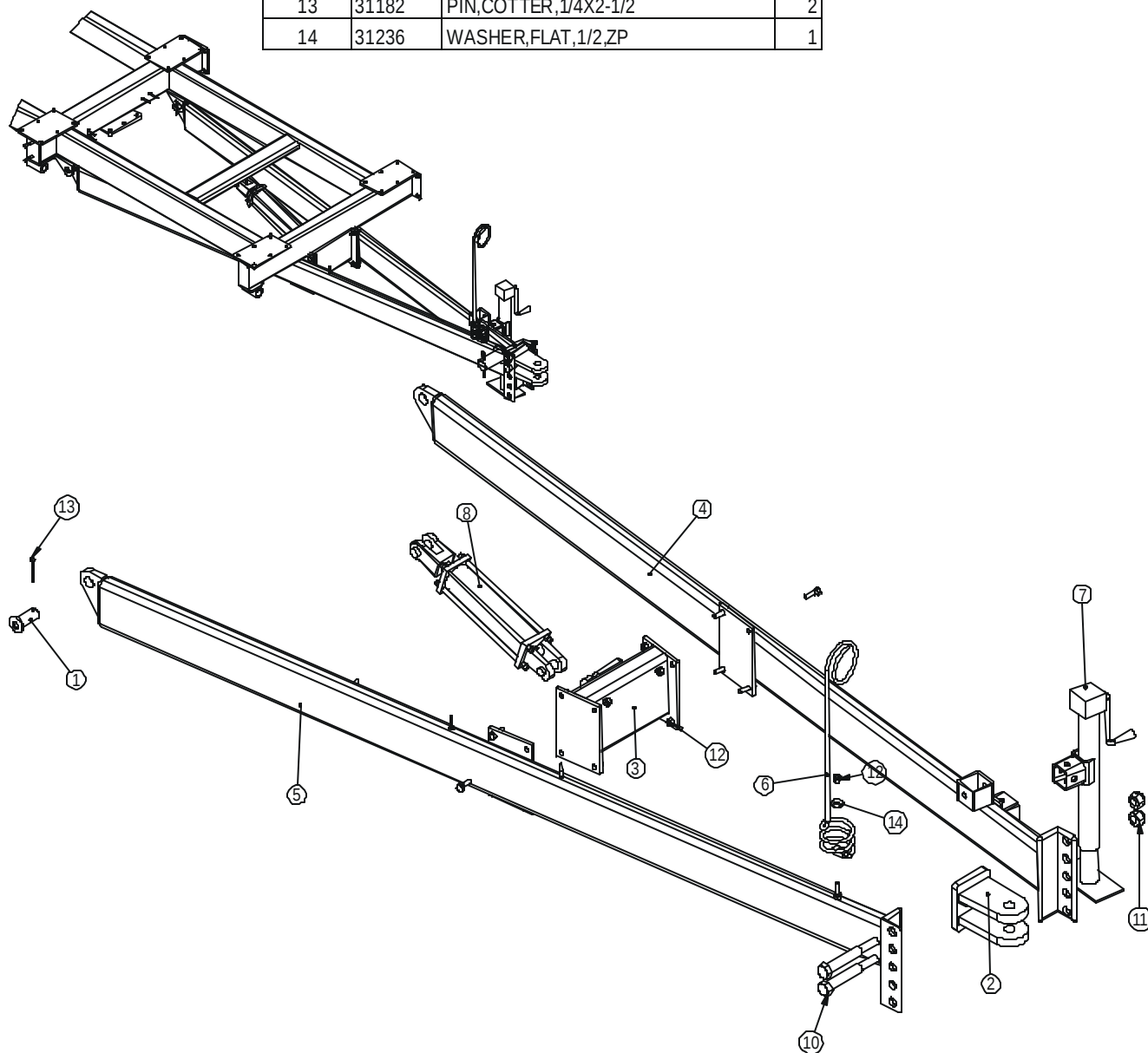
4.9.1 EM5500 Hub Assembly (Part No. 30102)

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	30220	SUSP, CAP, DUST	1
2	30221	PIN, COTTER, 3/16X 1-3/4	1
3	30222	NUT, SLOTTED, 1, UNF	1
4	30223	WASHER, FLAT, 1IDX2OD, .2385	1
5	30226	DRV, BRG, RACE, INNER, 1.781	1
6	30228	DRV, BRG, SEAL, 1.98	1
7	30229	SUSP, HUB, EM5500, 8BOLT	1
8	91111	DRV, BRG, TAPERED, OUTER, 1.375	1
9	91131	DRV, BRG, RACE, OUTER, 1.375	1
10	91133	DRV, BRG, TAPERED, INNER, 1.781	1
11	30207	ZERK, 1/4-28, GF641, STRAIGHT	1
12	32301	SUSP, BOLT, WHEEL, 9/16x1-1/4Tx1-13/16L	8



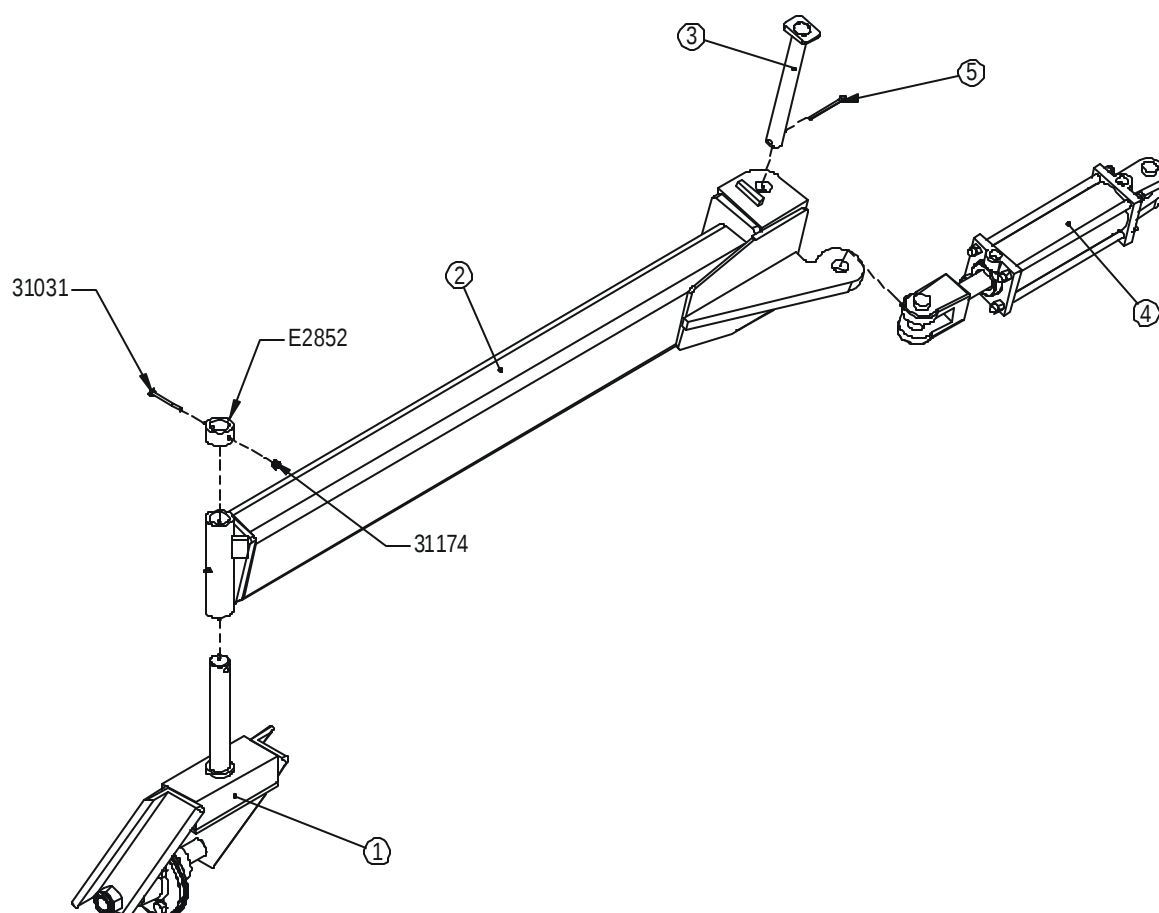
4.10 Hitch Assembly (Part No. 42055)

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	40003	PIN,HITCH	2
2	40142	HITCH,TONGUE,DOUBLE	1
3	40490	HITCH,CROSSMEMBER	1
4	45010	HITCH,A-FRAME,LEFT	1
5	45011	HITCH,A-FRAME,RIGHT	1
6	30206	HYD,HOLDER,HOSE,1/2	1
7	31800	JACK,5000LBX15,SQ MNT,SIDEWIND	1
8	90118	Hyd,Cyl,3X10,1.25,8FP	1
9	31016	BOLT,HEX,1/2X1-1/2,UNC,GR5,ZP	8
10	31038	BOLT,HEX,1X7-1/2,UNC,GR5,ZP	2
11	31172	NUT,NYLOCK,1,UNC,ZP	2
12	31173	NUT,NYLOCK,1/2,UNC,ZP	9
13	31182	PIN,COTTER,1/4X2-1/2	2
14	31236	WASHER,FLAT,1/2,ZP	1



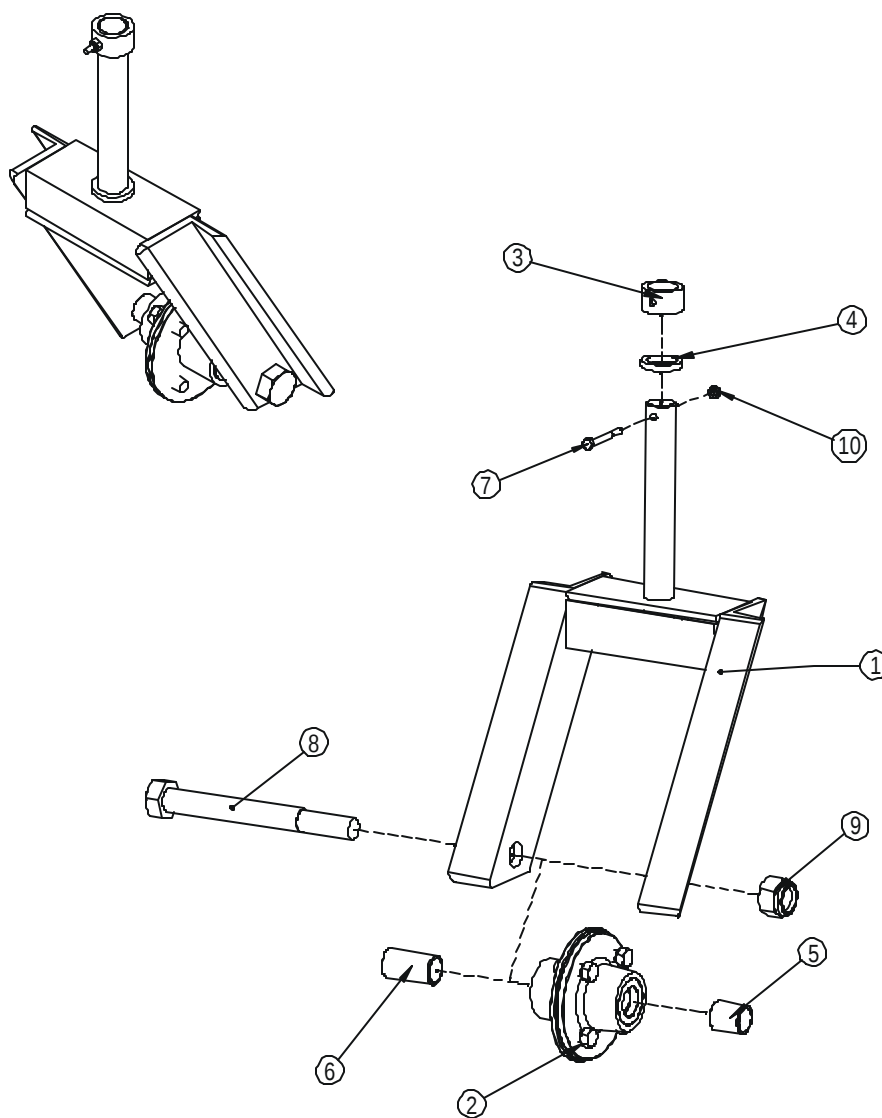
4.11 Support Arm Assembly (Part No. 42051)

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	40176	WHEEL,CAST OR	1
2	40136	ARM,SUPPORT,WHEEL,CASTOR	1
3	45025	PIN,ARM,PIVOT,WHEEL,CASTOR	1
4	90117	Hyd,Cyl,3X8,1.25,8FP	1
5	31182	PIN,COTTER,1/4X2-1/2	1



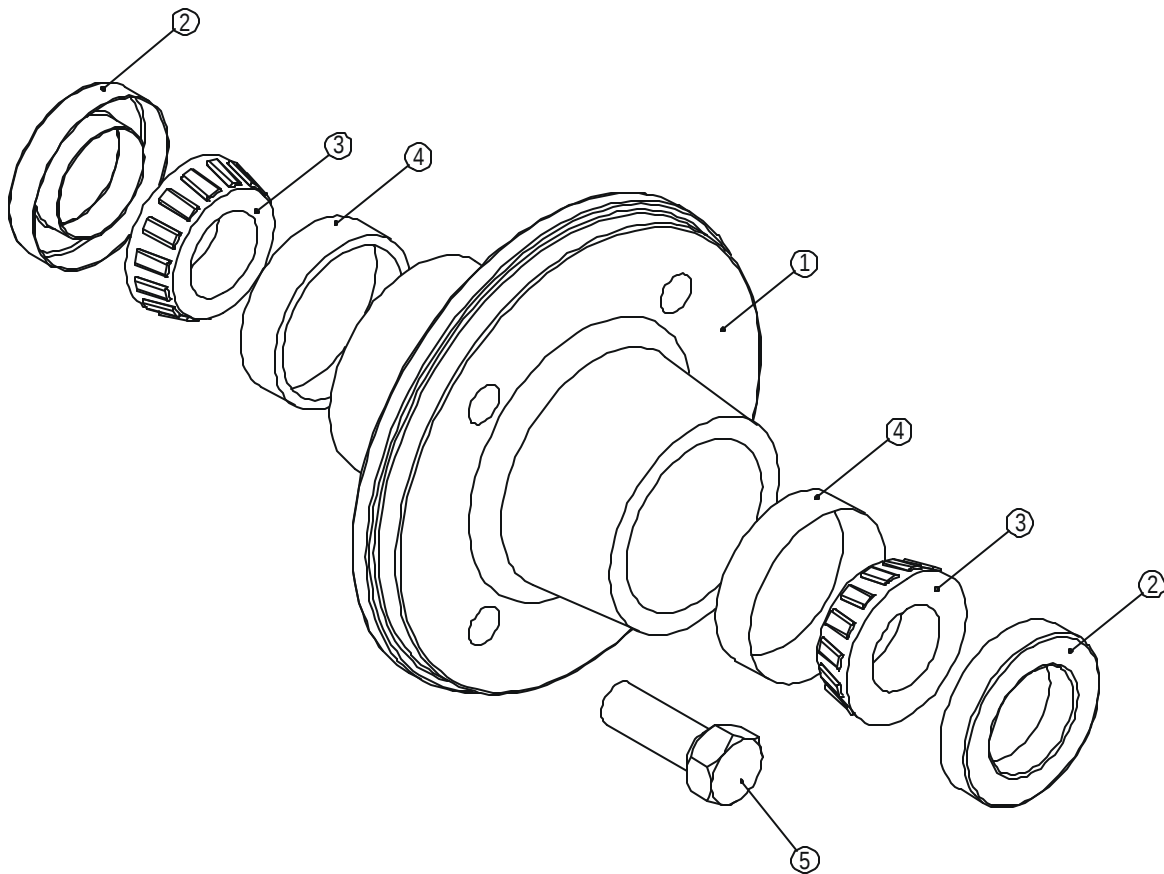
4.11.1 Castor Wheel Assembly (Part No. 40176)

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	70063	FORK, WHEEL, CASTOR	1
2	91073	SUSP, HUB, HDA211F	1
3	E2852	SPACER, WHEEL, CASTOR, TOP	1
4	E2853	PIPE, SMLS, 1-3/4x.240x1/4L	1
5	E4835	PIPE, SMLS, 1-1/4X1/8WX1-3/8L	1
6	E4836	PIPE, SMLS, 1-1/4X1/8WX2-1/4L	1
7	31031	BOLT, HEX, 1/4X2-1/2, UNC, GR5, ZP	1
8	31039	BOLT, HEX, 1X9, UNC, GR5, ZP	1
9	31172	NUT, NYLOCK, 1, UNC, ZP	1
10	31174	NUT, NYLOCK, 1/4, UNC, ZP	1



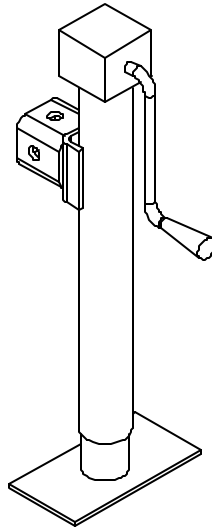
4.11.1.1 HDA211F Hub Assembly (Part No. 91073)

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	32335	HUB	1
2	32339	SEAL, GREASE	2
3	91113	BEARING	2
4	32337	BEARING, RACE	2
5	32336	SUSP, BOLT, WHEEL, 1/2x1-1/4Tx1-3/4L	4



4.12 Jack Assembly (Part No. 31800)

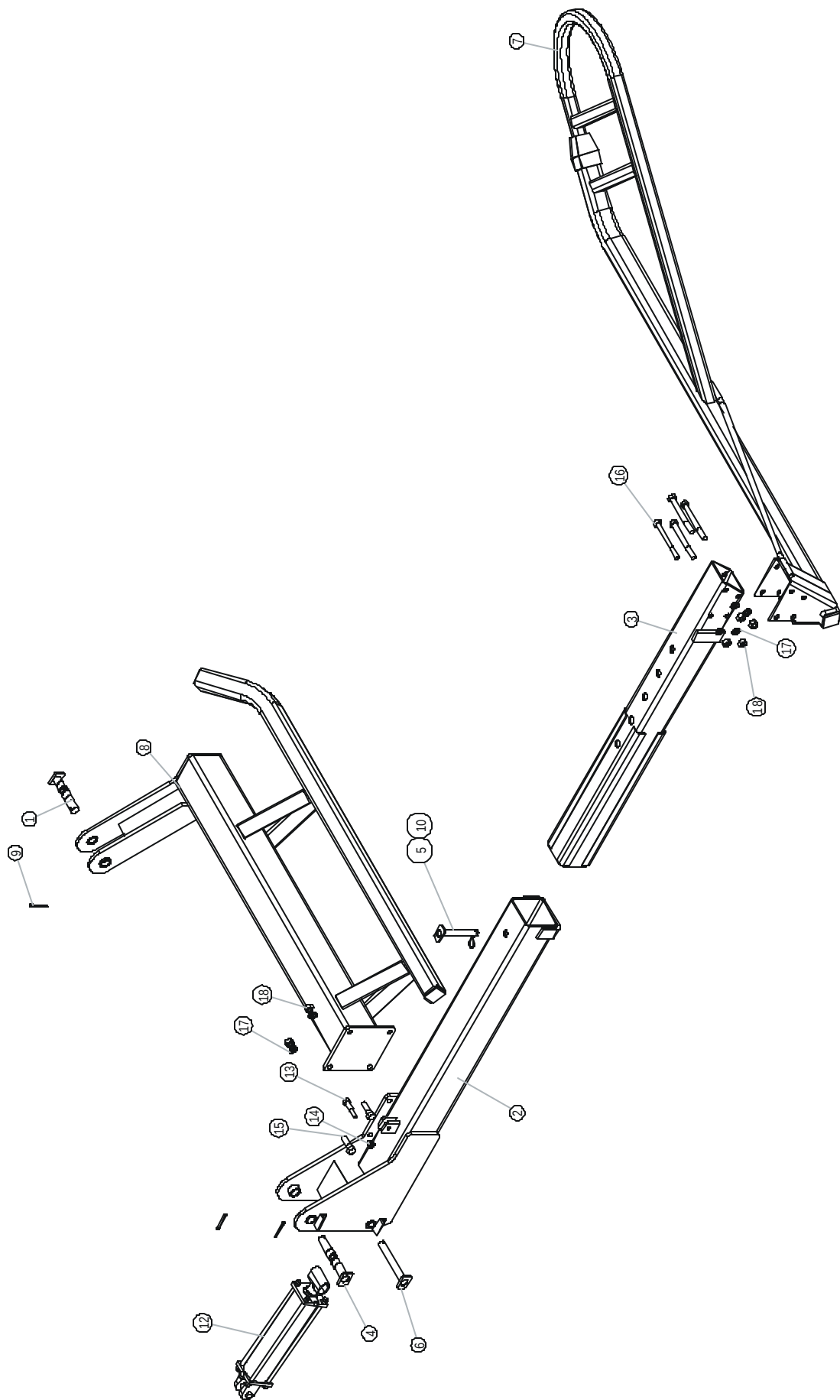
ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	31800	JACK,5000LBX15,SQ MNT,SIDEWIND	1
2	33438	KIT,PIN & CHAIN-5/8"X4.25"	1
3	33439	KIT,5K BEARING REPLACEMENT	1
4	33440	KIT,STD BEVEL GEAR REPLAC.	1
5	33441	KIT,SW CRN CRANK REPLAC.	1
6	33442	COVER,GEARBOX	1



4.13 Fork Lift Assembly (Part No. 42101)

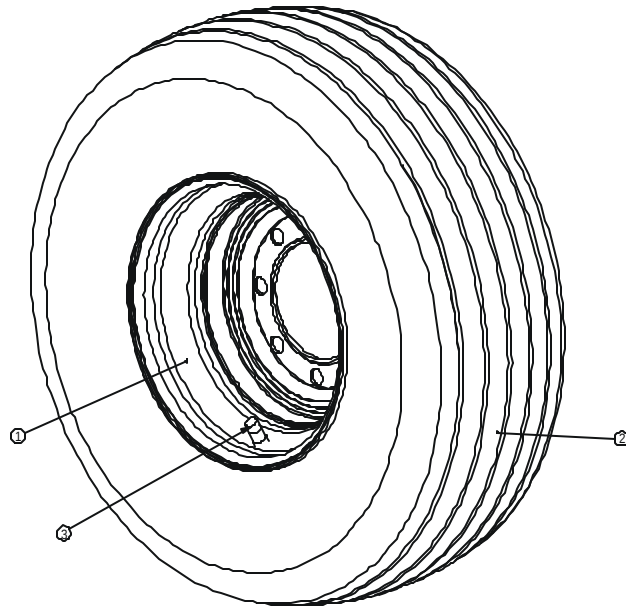
ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	40010	PIN,ARM,SIDE,PIVOT	1
2	42100	WLDT,ARM,INNER,RT	1
3	42102	WLDT,ARM,FORK,OUTERRT	1
4	42103	WLDT,PIN,FORK,PIVOT	1
5	42104	WLDT,PIN,FORK,ADJUSTMENT	1
6	42105	WLDT,PIN,LIFT	1
7	49460	WLDT,FORK,OUTER,RT	1
8	49461	WLDT,FORK,INNER,RT	1
9	31182	PIN,COTTER,1/4X2-1/2	3
10	31602	PIN, HAIR,#210	1
11	33316(1.5)	OIL,HYDRAULIC,UTF	1
12	90120	HYD,CYL,3.5X13,1.5NITRO,8FP	1
13	31336	BOLT,HEX,5/8X3,UNC,GR5,ZP	1
14	31178	NUT,NYLOCK,5/8,UNC,ZP	1
15	31040	BOLT,HEX,3/4X2-1/2,UNC,GR5,ZP	4
16	31469	BOLT,HEX,3/4X7,UNC,GR5,ZP	4
17	31246	WASHER,LOCK,3/4,ZP	8
18	33234	NUT,STOVER,3/4,UNC,GR5,ZP	8

ITEM #11 NOT SHOWN

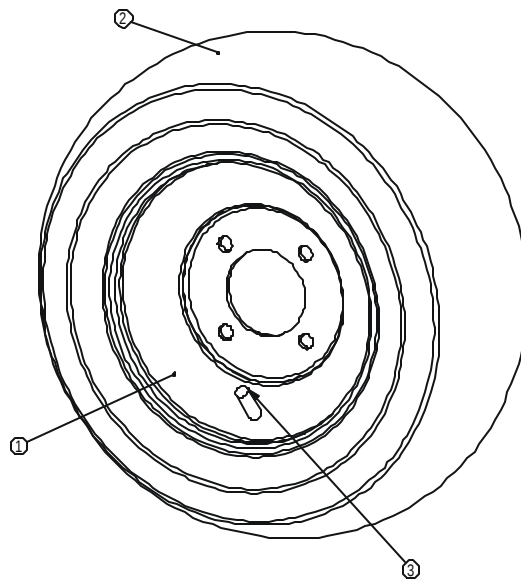


4.14 Wheel Complete (Part No. 31795)

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	30104	RIM,1.5X8,-1.5,8,OFFWHITE	1
2	30100	SUSP,TIRE,11LX15H,12PLY	1
3	91048	SUSP,STEM,VALVE,TR801HP	1
4	33014	SUSP,TUBE,11L-15	1

**4.15 Wheel Complete - 16.5x6.5 (Part No. 91031)**

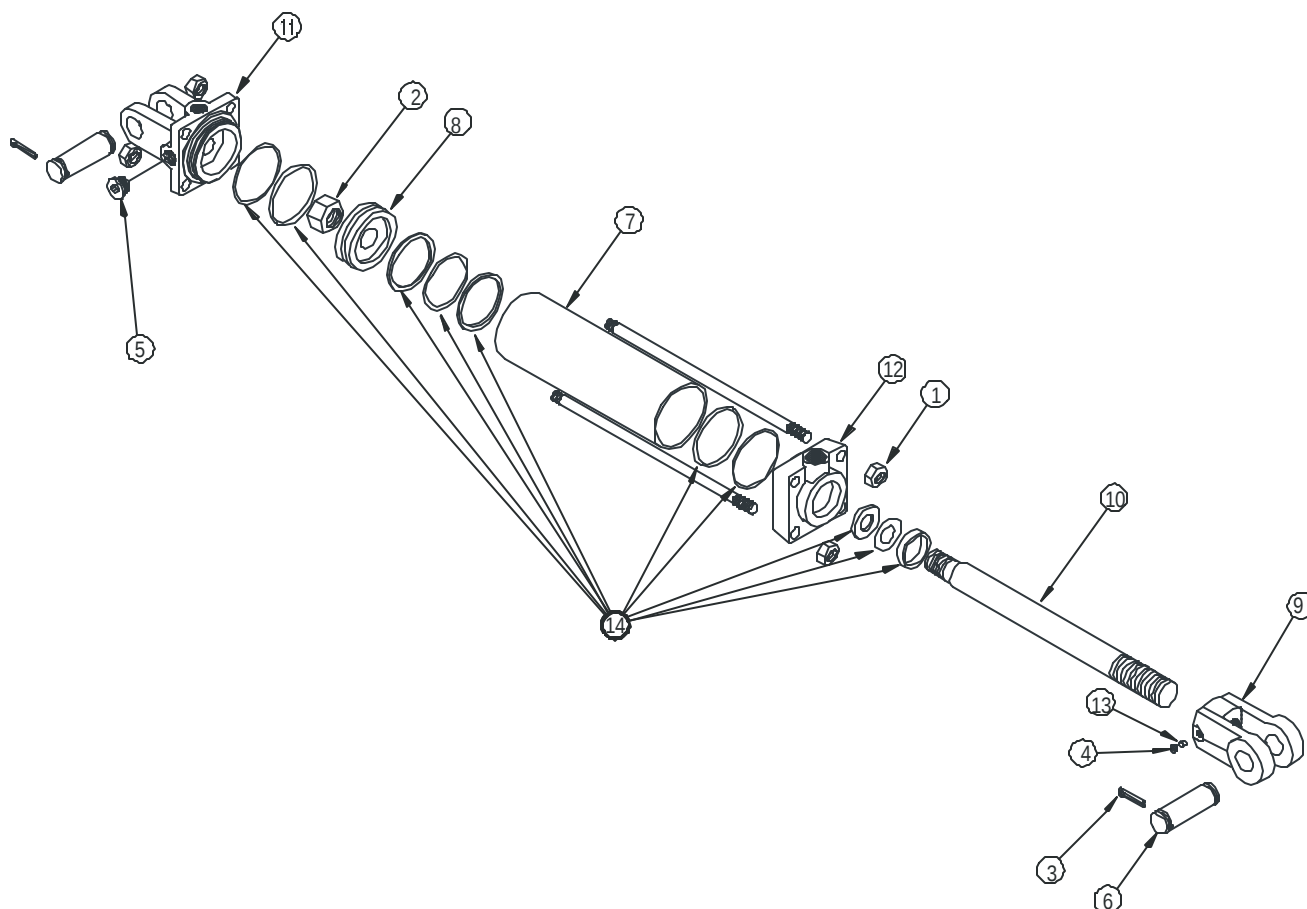
ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	32334	SUSP,RIM,8X6.5,4,WHITE	1
2	91005	SUSP,TIRE,16X6.5-8,4PLY	1
3	91048	SUSP,STEM,VALVE,TR801HP	1



5.0 Hydraulic Cylinders

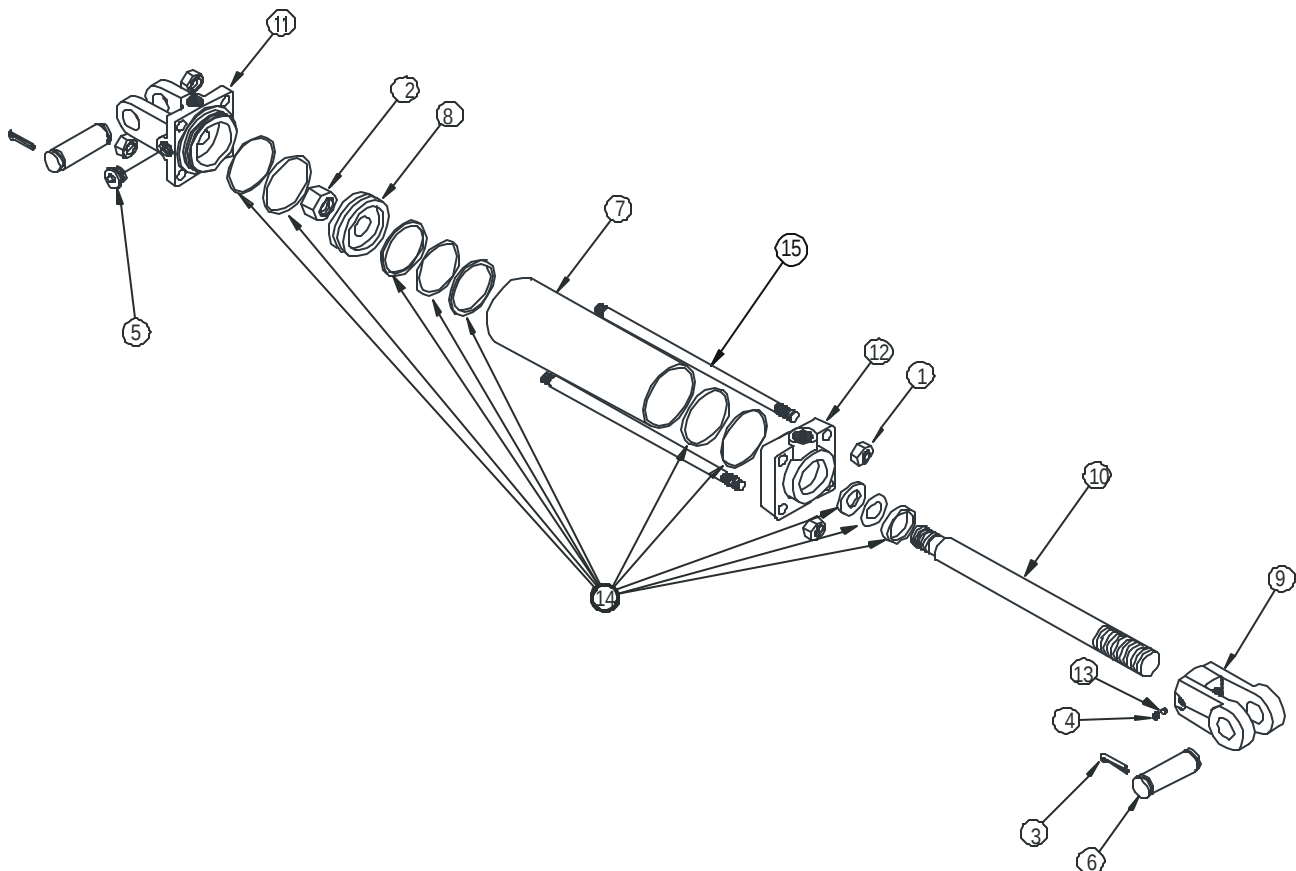
5.1 3x8 Hydraulic Cylinder (Part No. 90117)

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	31163	NUT,HEX,1/2,UNC,GR5,ZP	8
2	30237	NUT,HEX,1,UNS,GR5	1
3	30238	PIN,COTTER,3/16X1-1/2	4
4	30239	SETSCREW,SOCKET,3/8X1-1/2KNUR	1
5	30240	HYD,FIT,PLUG,1/2-14,NPTF,DRYSEAL	1
6	32250	HYD,CYL,PIN,1	2
7	30243	HYD,CYL,3X8,H6183	1
8	30250	HYD,CYL,PISTON,3,H6680	1
9	30253	HYD,CLEVIS,1-1/4,1PIN	1
10	30254	HYD,CYL,ROD,1/2X8	1
11	30256	HYD,CYL,CLEVIS,CAP,3,NPTF	1
12	30257	HYD,CYL,CAP,ROD,ROD,3X1-1/4,NPTF	1
13	30261	LOCK,THREAD,NYLOCK	1
14	30262	HYD,CYL,SEALKIT,3,1-1/4ROD	1



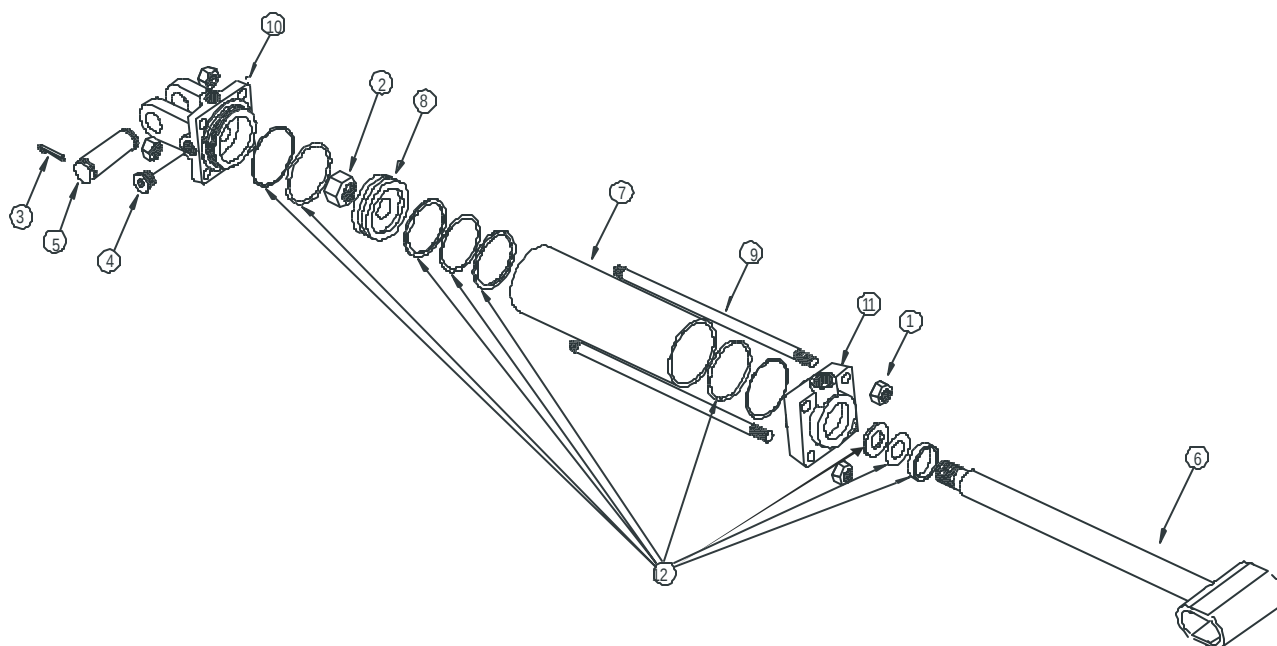
5.2 3x10 Hydraulic Cylinder (Part No. 90118)

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	31163	NUT,HEX,1/2,UNC,GR5,ZP	8
2	30237	NUT,HEX,1,UNS,GR5	1
3	30238	PIN,COTTER,3/16X1-1/2	4
4	30239	SETSCREW,SOCKET,3/8X1-1/2KNUR	1
5	30240	HYD,FIT,PLUG,1/2-14,NPTF,DRYSEAL	1
6	32250	HYD,CYL,PIN,1	2
7	30244	HYD,CYL,3X10,H6140	1
8	30250	HYD,CYL,PISTON,3,H6680	1
9	30253	HYD,CLEVIS,1-1/4,1PIN	1
10	30260	HYD,CYL,ROD,1-1/4X12-5/8	1
11	30256	HYD,CYL,CLEVIS,CAP,3,NPTF	1
12	30257	HYD,CYL,CAP,ROD,ROD,3X1-1/4,NPTF	1
13	30261	LOCK,THREAD,NYLOCK	1
14	30262	HYD,CYL,SEALKIT,3,1-1/4ROD	1
15	33015	HYD,CYL,TIEROD,1/2X10	4



5.3 3.5x13 Hydraulic Cylinder (Part No. 90120)

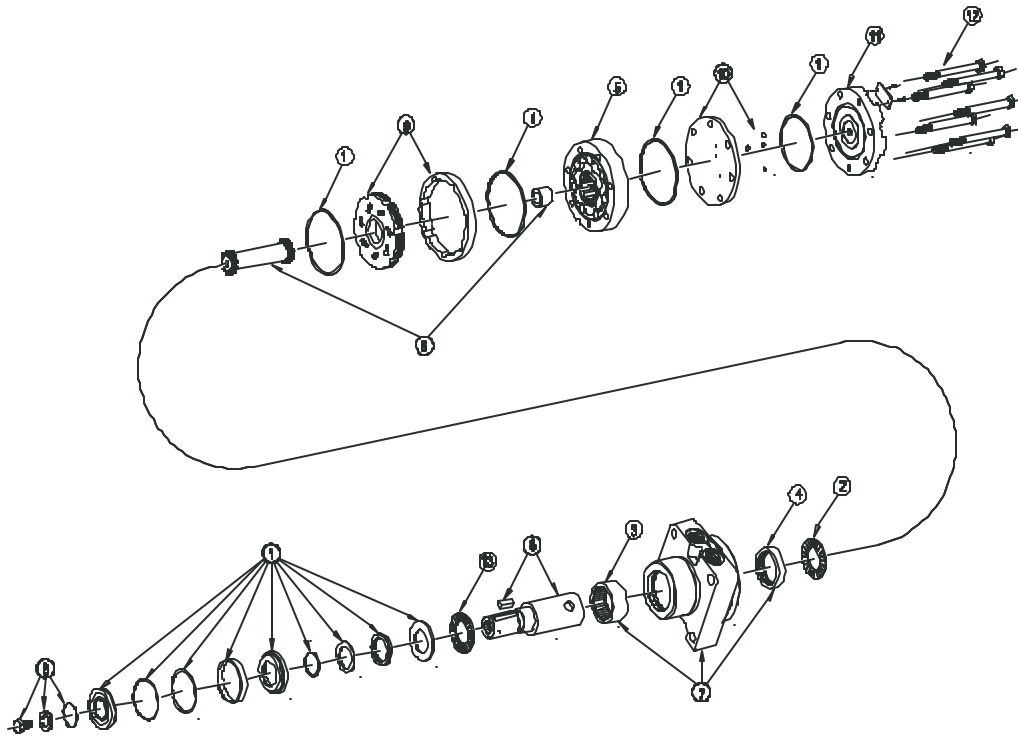
ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	30663	NUT,HEX,5/8,UNC,GR5,ZP	8
2	30237	NUT,HEX,1,UNS,GR5	1
3	30238	PIN,COTTER,3/16X1-1/2	2
4	30240	HYD,FIT,PLUG,1/2-14,NPTF,DRYSEAL	1
5	32250	HYD,CYL,PIN,1	1
6	30242	HYD,CYL,ROD,1-1/2X17,NITRO	1
7	30245	HYD,CYL,3-1/2X13,H6203	1
8	30251	HYD,CYL,PISTON,3-1/2,H6688	1
9	30255	HYD,CYL,TIEROD,5/8X13,SPECIAL	4
10	30258	HYD,CYL,CLEVIS,CAP,3-1/2,NPTF	1
11	30259	HYD,CYL,CAP,ROD,3-1/2X1-1/2,8FP	1
12	30263	HYD,CYL,SEALKIT,3-1/2,639578	1



6.0 Hydraulic Motors

6.1 45 Cubic Inch Hydraulic Motor (Part No. 92184)

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	32647	HYD,MOTOR,SEALKIT,ROLLER,STATOR	1
2	32651	BEARING,THRUST,REAR	1
3	32720	BRG,HOUSING,FRONT	1
4	32649	BEARING,HOUSING,REAR,1/2"	1
5	32721	KIT,ROTOR,FOR RE4507040	1
6	32722	KIT,LINK,DRIVE,FOR RE4507040	1
7	32723	KIT,HOUSING,FOR RE4507040	1
8	32724	KIT,SHAFT,FOR RE4507040	1
9	32725	KIT,MANIFOLD,FOR RE4507040	1
10	32726	PLATE,BALANCE,FOR RE4507040	1
11	32727	COVER,END,FOR RE4507040	1
12	32728	KIT,BOLT,FOR RE4507040	1
13	32639	BEARING,THRUST,FRONT	1



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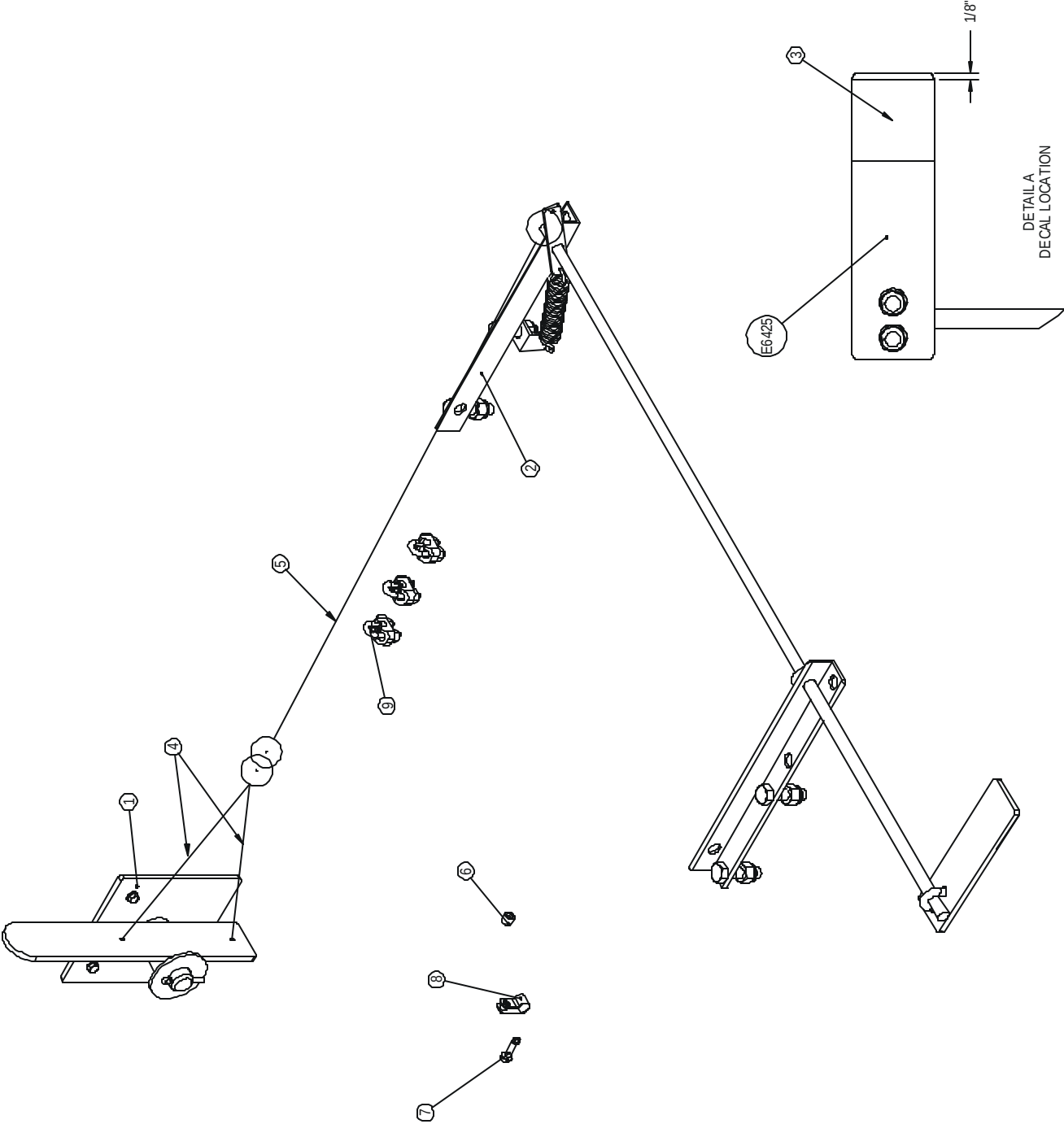
7.0 Options

7.1 Indicator Option (Part No. BMO5&7BI-2 (89029))

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	49453	ASSY,INDICATOR,REAR	1
2	49455	ASSY,INDICATOR,FRONT	1
3	E6328	REFLECTIVE,TAPE,SELECTOR	1
4	33207(4.5)	ROPE,WIRE,5/32",STRAND	1
5	33207(35)	ROPE,WIRE,5/32",STRAND	1
6	33208	SLEEVE,STOP,CABLE,5/32"	2
7	30294	SCREW,TEK,1/4X1	9
8	31649	ELEC,CLAMP,CABLE,1/2	9
9	92014	CLAMP,CABLE,1/4	3
10	30295(.5)	PAINT,ORANGE	1
11	30296(.01)	PAINT,CATALYST	1

WIRE ROPE DIMENSIONS IN () ARE IN FEET
 PAINT & CATALYST DIMENSIONS IN () ARE IN LITERS

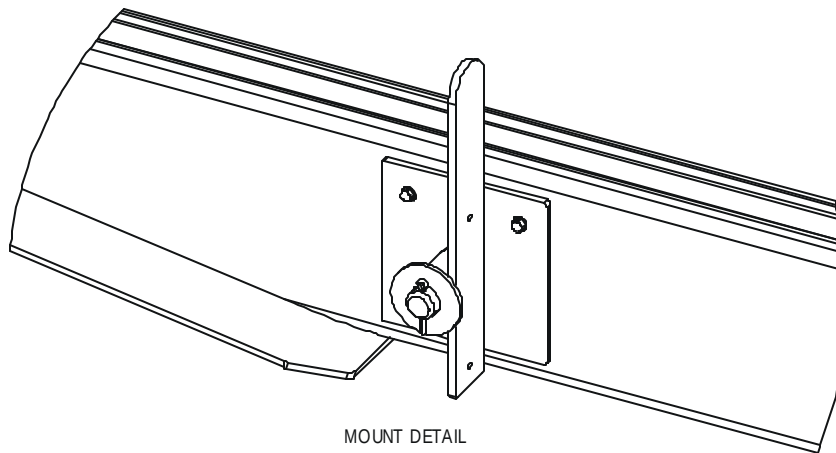
1. MOUNT 31649 4 FEET FROM FRONT AND REAR INDICATOR PIVOT POINTS WITH 30294'S ON THE INSIDE OF THE NON-FORK RAIL, SPACE REMAINING 31649'S AT APPROX 4 FT INTERVALS W/ REMAINING 30294'S
2. RUN LONG CABLE THROUGH 31649'S AND MAKE 1" LOOP W/ 1/4" CLAMP THROUGH THE HOLE IN THE ROD ASSY AT THE FRONT OF MACHINE.
3. RUN SHORT CABLE THROUGH HOLES IN PADDLE PLATE AND ATTACH CABLE STOPS. MAKE 1" LOOP @ CENTER OF CABLE W/ 1/4" CLAMP.
4. REMOVE AS MUCH SLACK AS POSSIBLE IN LONG CABLE AND MAKE 1" LOOP W/ 1/4" CLAMP THROUGH LOOP IN SHORT CABLE. SPRING SHOULD BE SLIGHTLY PRETENSIONED. TRIM EXCESS CABLE



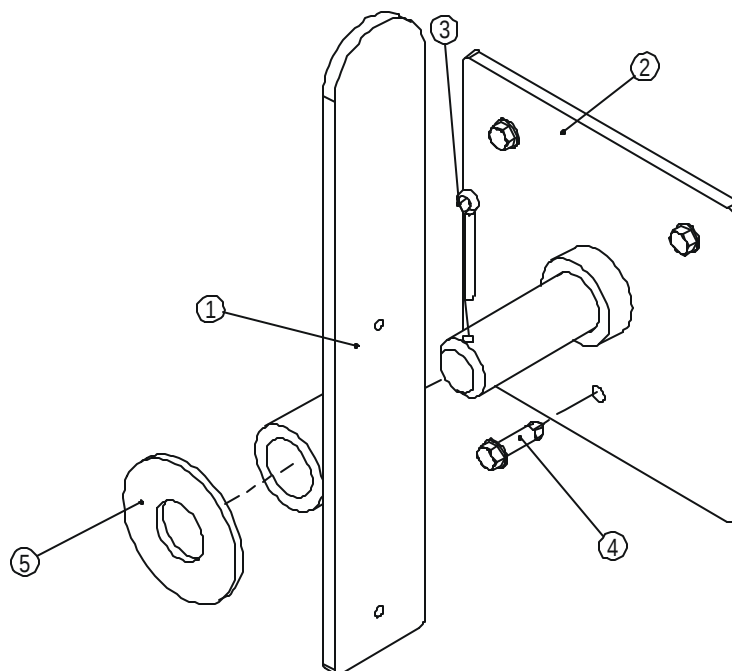
7.1.1 Rear Indicator Assembly (Part No. 49453)

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	49454	WLDT,PADDLE,INDICATOR	1
2	49457	WLDT,BRACKET,REAR	1
3	30238	PIN,COTTER,3/16X1-1/2	1
4	30294	SCREW,TEK,1/4X1	3
5	31235	WASHER,FLAT,1,ZP	1

MOUNT 49459 ON INSIDE OF NON-FORK RAIL
BACK OF EDGE OF PLATE SHOULD BE DIRECTLY
ABOVE LEADING EDGE OF SKIDPAD. BOTTOM EDGE
OF PLATE SHOULD BE 1" FROM BOTTOM OF RAIL.
ATTACH WITH SCREWS PROVIDED



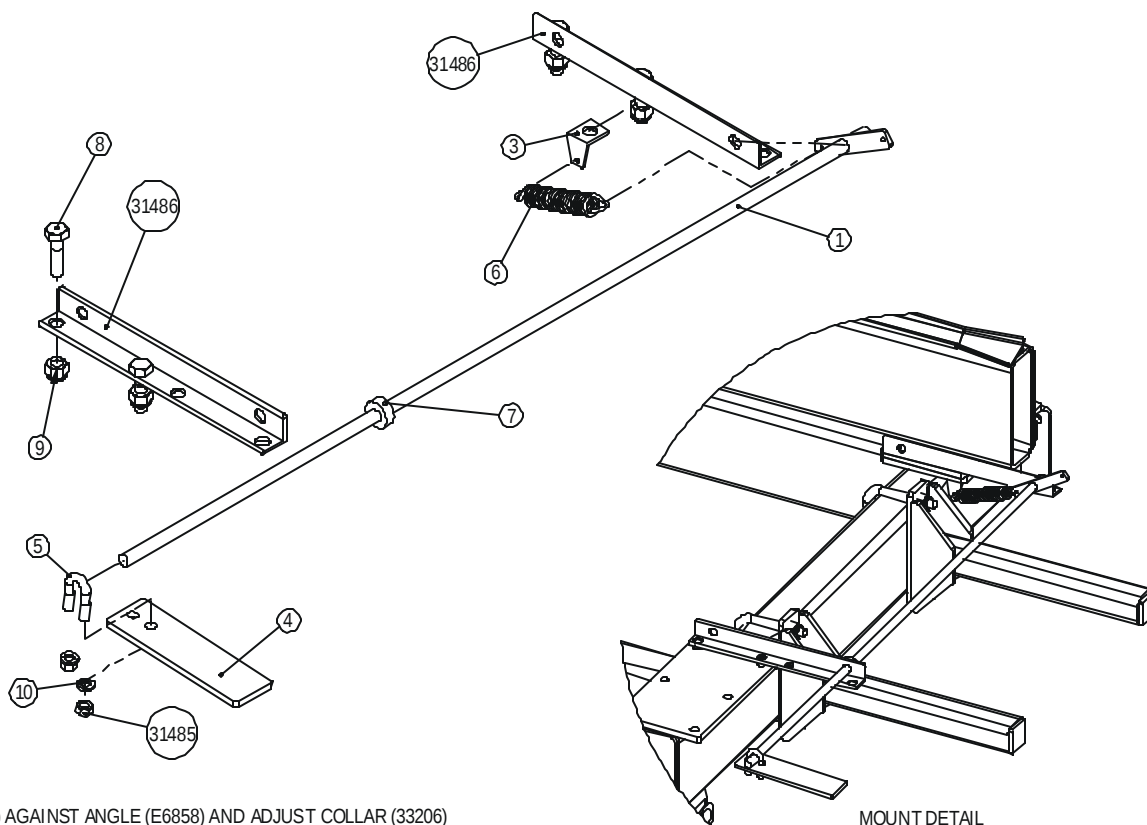
MOUNT DETAIL



7.1.2 Front Indicator Assembly (Part No. 49455)

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	49456	WLDT,ROD,INDICATOR	1
2	E6423	ANGLE,MOUNT,SPRING	1
3	E6425	PLT,FLAG,INDICATOR	1
4	E6858	ANGLE,MOUNT,ROD	2
5	30456 *	CLAMP,CABLE,3/8"	1
6	31667	SPRING,.120 HD,OD .859,4.75"	1
7	33206	COLLAR,SHAFT,1/2,2_PIECE	1
8	31017	BOLT,HEX,1/2X1-3/4,UNC,GR5,ZP	4
9	31173	NUT,NYLOCK,1/2,UNC,ZP	4
10	31319	WASHER,LOCK,3/8,ZP	2

* USE ONLY U-BOLT AND NUTS



PUSH ROD (49456) AGAINST ANGLE (E6858) AND ADJUST COLLAR (33206) TO 1/4" TO 1/8" CLEARANCE FROM ANGLE (E6417)

ATTACH E6425 AND POSITION SO THAT FLAG IS FACING OPERATOR WHEN ROTATED

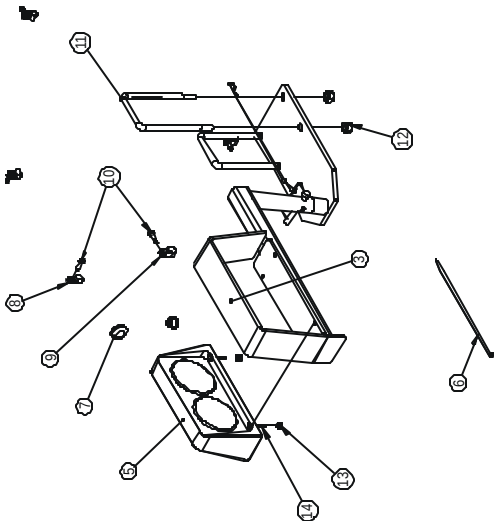
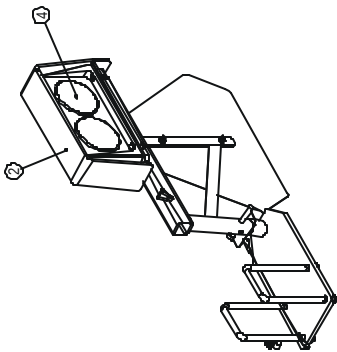
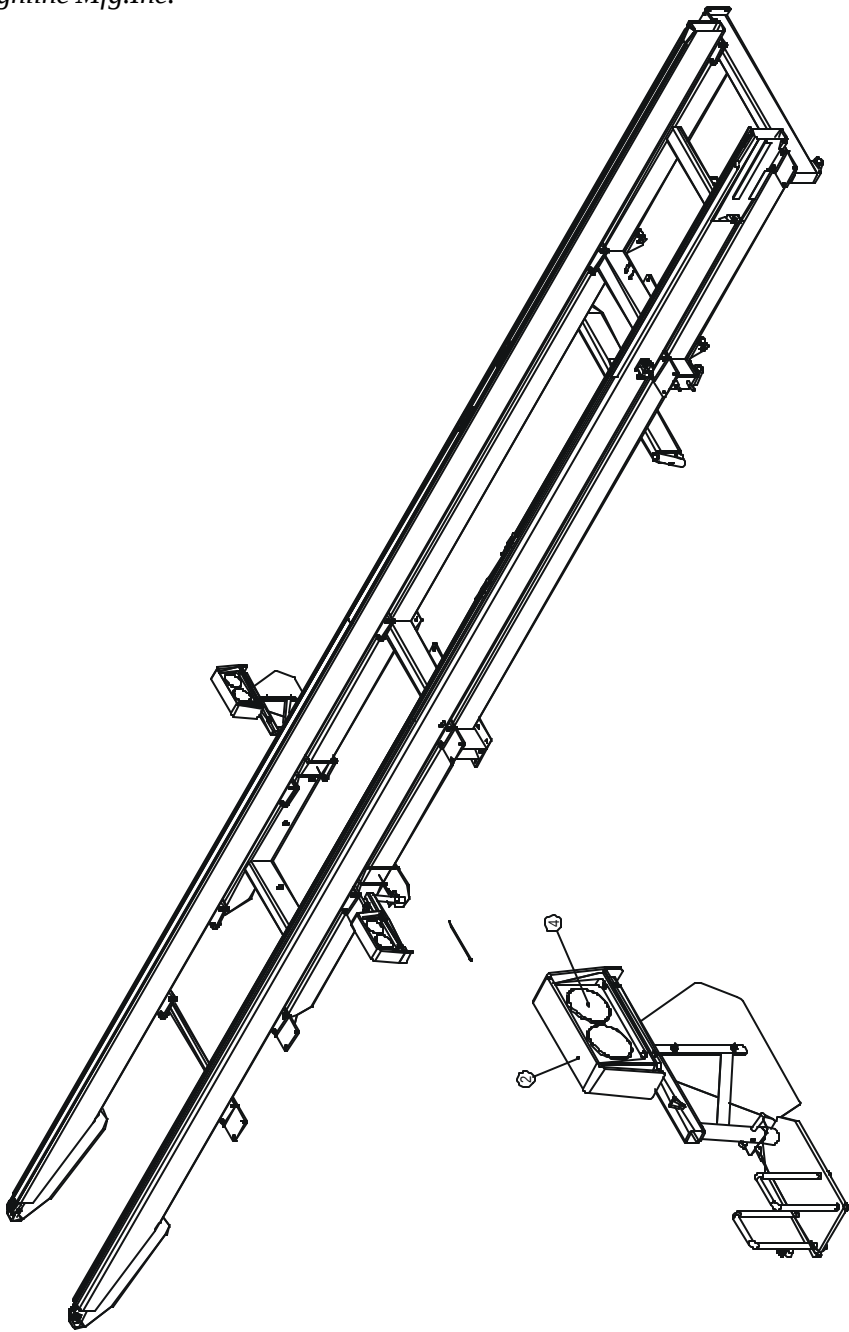
7.2 Clearance Light Option (Part No. BMO5&7CL-2 (89031))

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	40163	ELEC. HARNESS,LIGHTS,5&7BM	1
2	45282	ASSY, MOUNT,LIGHT,BM,LT	1
3	45283	ASSY, MOUNT,LIGHT,BM,RT	1
4	30526	ELEC,LIGHT,RED&AMBER,LEFT	1
5	30527	ELEC,LIGHT,RED&AMBER,RIGHT	1
6	31613	TIE,CABLE,NYLON,BLACK,11 1/2"	7
7	31648	GROM,RUBBER,1-3/8,3/4,1-1/16	2
8	31649	ELEC,CLAMP,CABLE,1/2	5
9	31650	ELEC,CLAMP,CABLE,3/4	1
10	30294	SCREW,TEK,1/4X1	6
11	31061	BOLT,U,SQ,1/2-13,3X7,1-1/4THREAD	4
12	31173	NUT,NYLOCK,1/2,UNC,ZP	8
13	31174	NUT,NYLOCK,1/4,UNC,ZP	8
14	31535	BOLT,HEX,1/4X1-1/2,UNC,GR5,ZP	8

NOTE: ITEM 1 (40163) NOT SHOWN

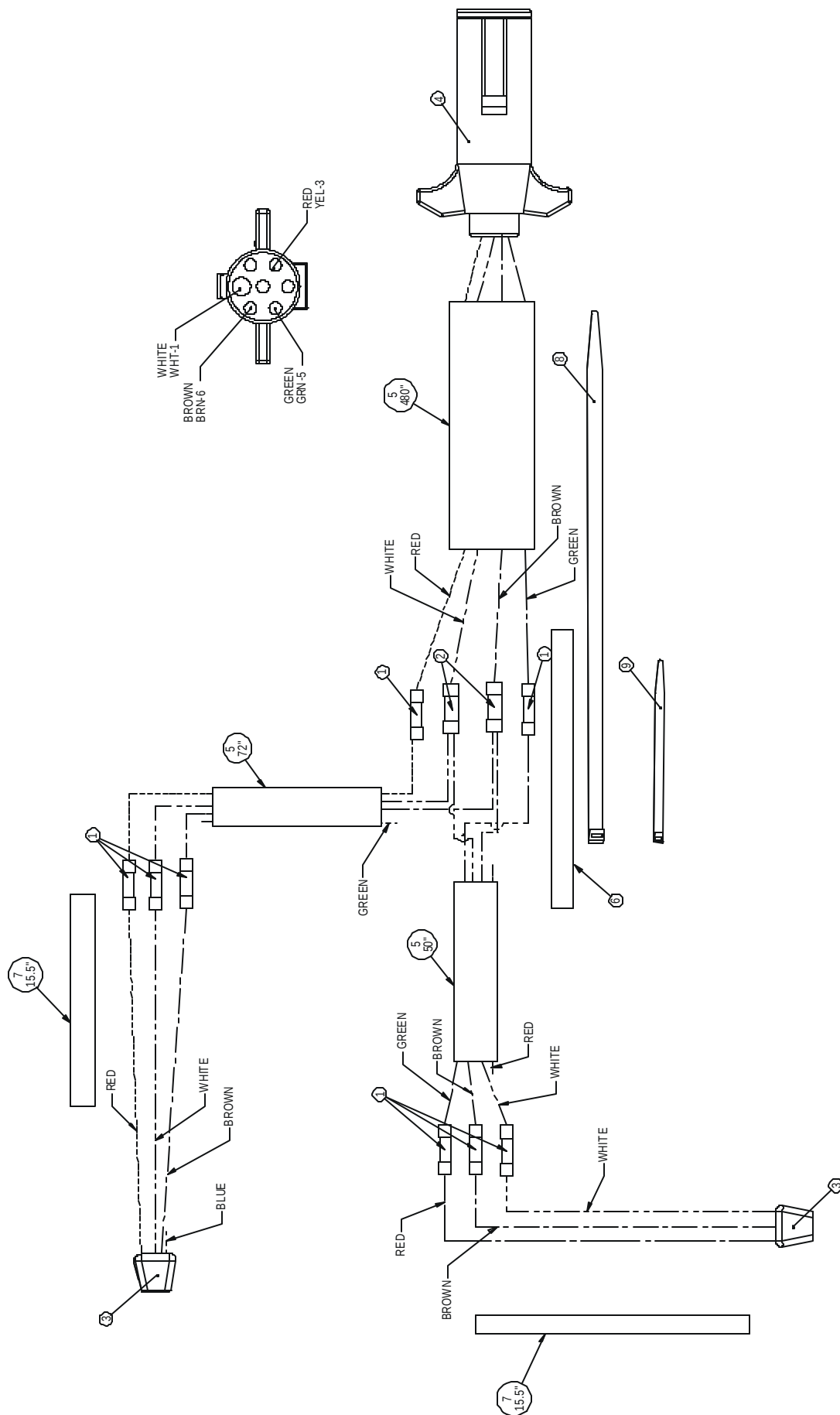
NOTE:

- PLACE LIGHT BRACKETS BEHIND AXLE AND IN FRONT OF FRONT ELECTRICAL CLAMP.
- TETHER LIGHT BRACKET PINS TO U-BOLT.



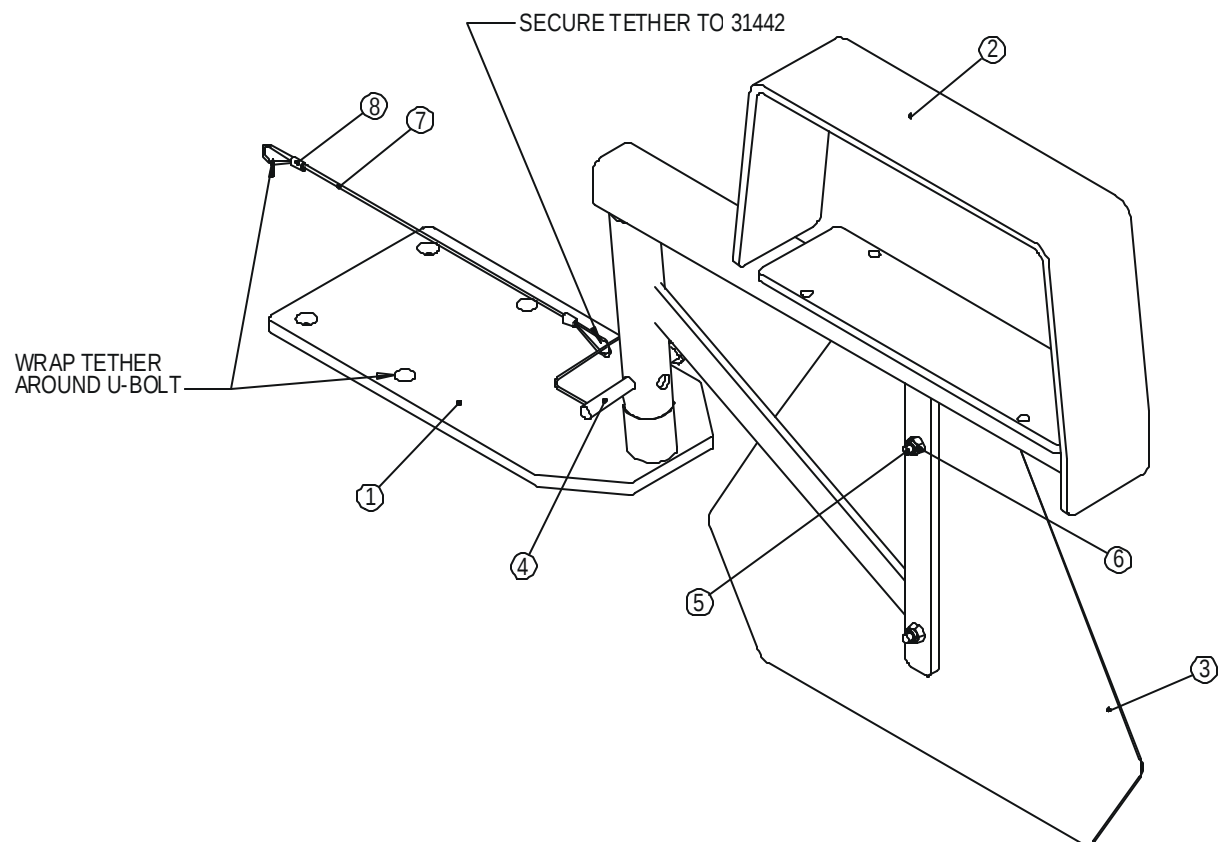
7.2.1 Light Harness (Part No. 40163)

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	30408	ELEC,CONN,BUTT,16-14	8
2	31673	ELEC,CONN,BUTT,10-12	2
3	30555	ELEC,CONNECTOR,LIGHT,FEMALE	2
4	30556	ELEC,CONN,7 WIRE,FEMALE	1
5	31614(50.17)	ELEC,CABLE,4-14,ULTRA-FLEX	1
6	31615(1.33)	ELEC,LOOM,3/4,SPLIT,CORRIGATED	1
7	92143(4.33)	ELEC,LOOM,1/2,SPLIT,CORRIGATED	1
8	31613	TIE,CABLE,NYLON,BLACK,11 1/2"	3
9	92170	TIE,CABLE,4",BLACK	12



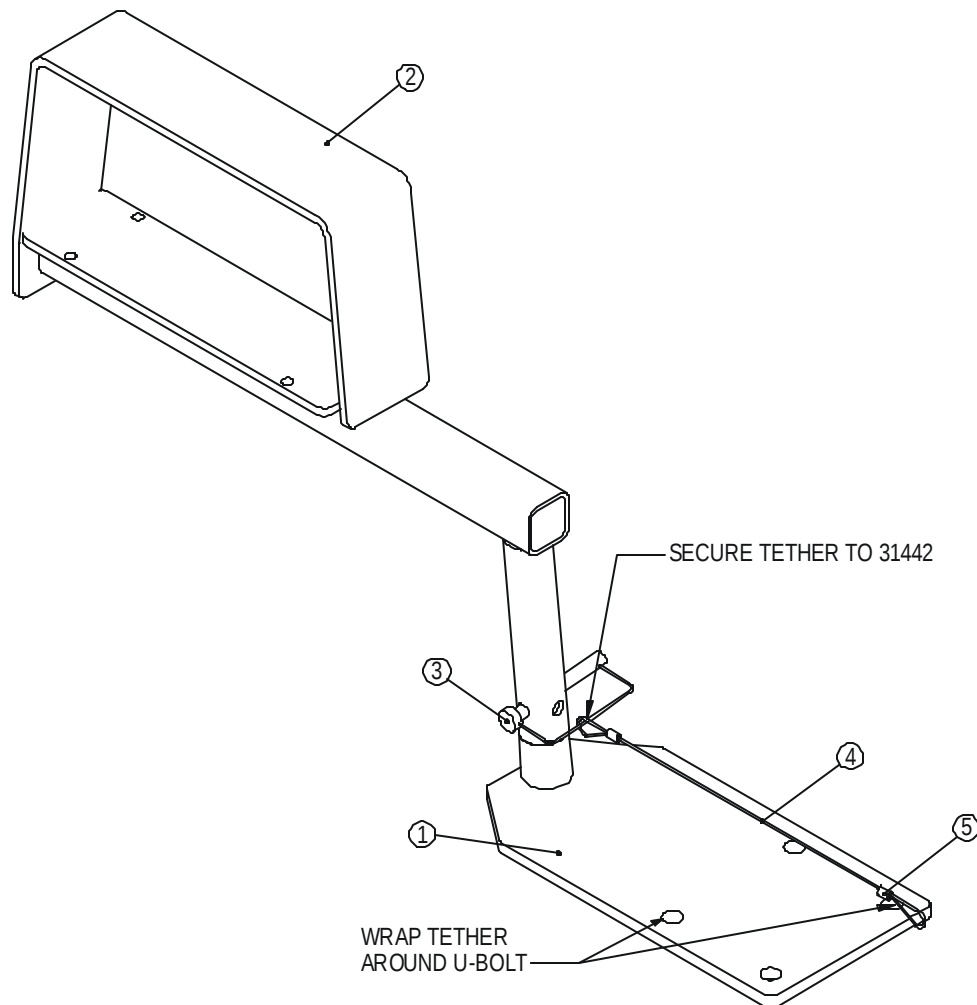
7.2.2 Left Light Mount Assembly (Part No. 45282)

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	45278	MOUNT,LIGHT,BM,LEFT	1
2	45280	MOUNT,BRKT,LIGHT,BM,LT	1
3	92028	SIGN,SLOWMOVING,S276.5	1
4	31442	PIN,HITCH,3/8X3	1
5	31033	BOLT,HEX,1/4X3/4,UNC,GR5,ZP	2
6	31174	NUT,NYLOCK,1/4,UNC,ZP	2
7	E5351	TETHER,16"	1
8	30559	CLAMP,ROPE,WIRE,1/16	2



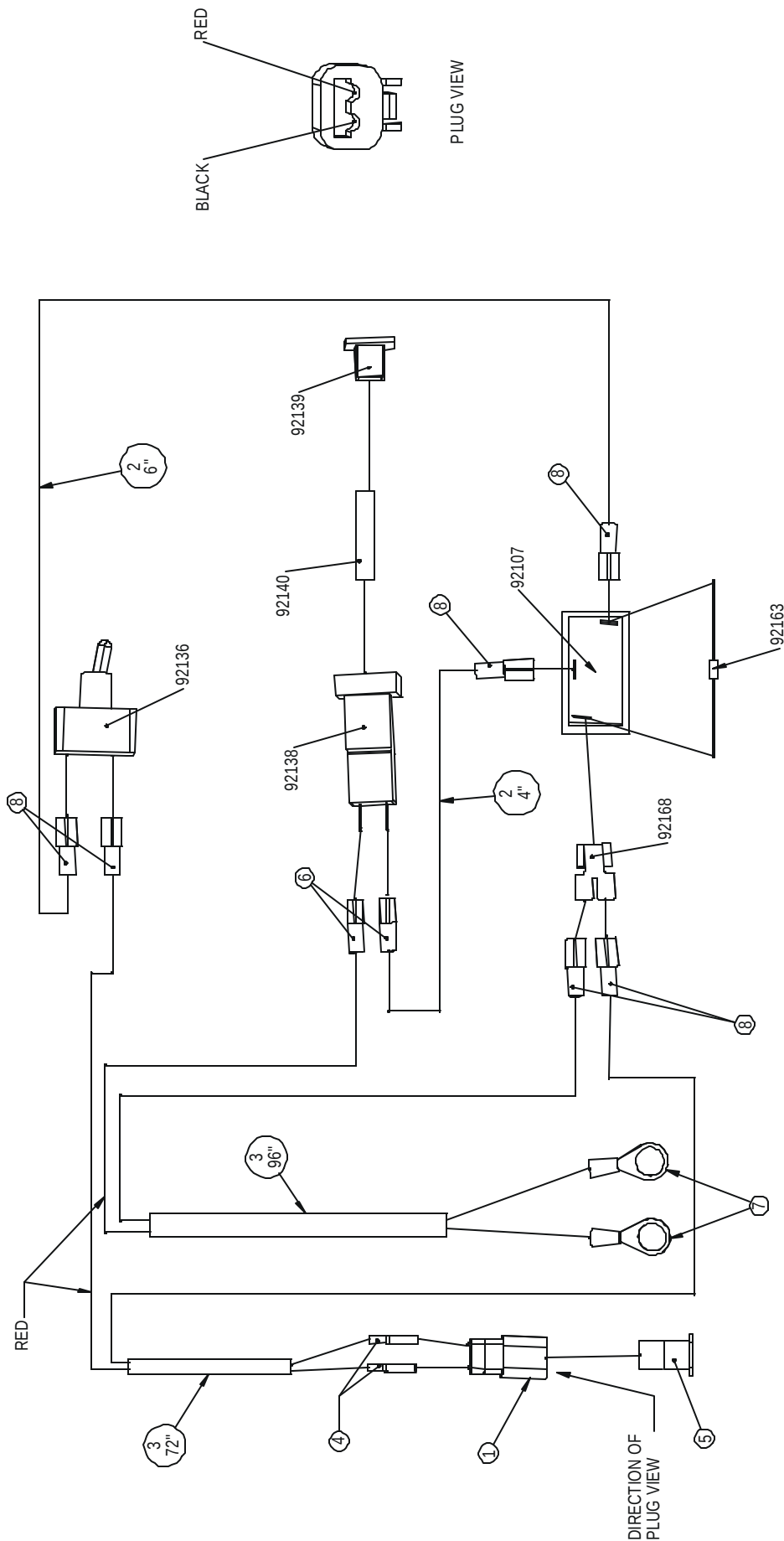
7.2.3 Right Light Mount Assembly (Part No. 45283)

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	45279	MOUNT, LIGHT, BM, RIGHT	1
2	45281	MOUNT, BRKT, LIGHT, BM, RT	1
3	31442	PIN, HITCH, 3/8X3	1
4	E5351	TETHER, 16"	1
5	30559	CLAMP, ROPE, WIRE, 1/16	2



7.3 Wiring Control Box (Part No. 90137)

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	92105	ELEC CONNECTOR,F,2-PIN	1
2	92151(.83)	ELEC,WIRE,16GA,STRAND,RED	1
3	92156(14)	ELEC,WIRE,2C-16GA,STRAND,RED/BLACK	1
4	92158	ELEC CONNECTOR,F,SOCKET	2
5	92160	ELEC CONNECTOR,F,WEDGE,2PIN	1
6	92165	ELEC CONNECTOR,QD,188F,16-14,ST,INS	2
7	92166	ELEC CONNECTOR,RING,3/8,16-14,ST,INS	2
8	92169	ELEC CONNECTOR,QD,250F,16-14,ST,INS	6



8.0 Parts Index

PartNum	DESCRIPTION	PAGE	ITEM
30100	SUSP,TIRE,11LX15FI,12PLY	40	2
30102	SUSP,HUB,COMPLETE,EM5500	31	3
30104	RIM,1.5X8,-1.5,8,OFFWHITE	40	1
30197	PIN,SPRING,3/16X1-1/2	28	7
30198	HYD,HOSE,3/8X18,6FJX-6MP,1W	22	3
30200	HYD,FIT,PLUG,8MB	22	4
30201	HYD,HOSE,3/8X44,8FJX-6MP,1W	22	5
30204	HYD,FIT,ADAPTER,10MB-8MJ	15	1
30205	HYD,HOSE,1/2X57,8FJ90TL,1W	15	2
30206	HYD,HOLDER,HOSE,1/2	33	6
30207	ZERK,1/4-28,GF641,STRAIGHT	16	3
30207	ZERK,1/4-28,GF641,STRAIGHT	32	11
30208	PLT,SERIAL#	12	1
30209	HYD,FIT,PIONEER,MALE,8FP	15	3
30209	HYD,FIT,PIONEER,MALE,8FP	22	6
30210	HYD,CLAMP,HOSE,1/2	22	7
30211	HYD,FIT,ELBOW,8MB-8MJ90	22	8
30212	HYD,FIT,ELBOW,8MP-8MJ90	22	9
30220	SUSP,CAP,DUST	32	1
30221	PIN,COTTER,3/16X1-3/4	32	2
30222	NUT,SLOTTED,1,UNF	32	3
30223	WASHER,FLAT,1IDX2OD,.2385	32	4
30226	DRV,BRG,RACE,INNER,1.781	32	5
30228	DRV,BRG,SEAL,1.98	32	6
30229	SUSP,HUB,EM5500,8BOLT	32	7
30237	NUT,HEX,1,UNS,GR5	41	2
30237	NUT,HEX,1,UNS,GR5	42	2
30237	NUT,HEX,1,UNS,GR5	43	2
30238	PIN,COTTER,3/16X1-1/2	41	3
30238	PIN,COTTER,3/16X1-1/2	42	3
30238	PIN,COTTER,3/16X1-1/2	43	3
30238	PIN,COTTER,3/16X1-1/2	48	3
30239	SETSCREW,SOCKET,3/8X1-1/2KNUR	41	4
30239	SETSCREW,SOCKET,3/8X1/2KNUR	42	4
30240	HYD,FIT,PLUG,1/2-14,NPTF,DRYSEAL	41	5
30240	HYD,FIT,PLUG,1/2-14 NPTF,DRY	42	5
30240	HYD,FIT,PLUG,1/2-14 NPTF,DRY	43	4
30242	HYD,CYL,ROD,1-1/2X17,NITRO	43	6
30243	HYD,CYL,3X8,H6183	41	7
30244	HYD,CYL,3X10,H6140	42	7
30245	HYD,CYL,3-1/2X13,H6203	43	7
30250	HYD,CYL,PISTON,3,H6680	41	8
30250	HYD,CYL,PISTON,3,H6680	42	8
30251	HYD,CYL,PISTON,3-1/2,H6688	43	8
30253	HYD,CLEVIS,1-1/4,1PIN	41	9
30253	HYD,CLEVIS,1-1/4,1PIN	42	9
30254	HYD,CYL,ROD,1/2X8	41	10
30255	HYD,CYL,TIEROD,5/8X13,SPECIAL	43	9
30256	HYD,CYL,CLEVIS,CAP,3,NPTF	41	11

30256	HYD,CYL,CLEVIS,CAP,3,NPTF	42	11
30257	HYD,CYL,CAP,ROD,ROD,3X1-1/4,NPTF	41	12
30257	HYD,CYL,CAP,ROD,ROD,3X1-1/4,NPTF	42	12
30258	HYD,CYL,CLEVIS,CAP,3-1/2,NPTF	43	10
30259	HYD,CYL,CAP,ROD,3-1/2X1-1/2,8FP	43	11
30260	HYD,CYL,ROD,1-1/4X12-5/8	42	10
30261	LOCK,THREAD,NYLOCK	41	13
30261	LOCK,THREAD,NYLOCK	42	13
30262	HYD,CYL,SEALKIT,3,1-1/4ROD	41	14
30262	HYD,CYL,SEALKIT,3,1-1/4ROD	42	14
30263	HYD,CYL,SEALKIT,3-1/2,639578	43	12
30269	BOLT,U,SQ,5/8-11,6X4-1/2,1-1/2	30	3
30294	SCREW,TEK,1/4X1	46	7
30294	SCREW,TEK,1/4X1	48	4
30294	SCREW,TEK,1/4X1	50	10
30313	HYD,FIT,TEE,8MJ-8MJ-8MJ	22	10
30390	HYD,FIT,ELBOW,6MB-6MJ90	22	11
30408	ELEC,CONN,BUTT,16-14	52	1
30456	CLAMP,CABLE,3/8"	49	5
30526	ELEC,LIGHT,RED&AMBER,LEFT	50	4
30527	ELEC,LIGHT,RED&AMBER,RIGHT	50	5
30555	ELEC,CONNECTOR,LIGHT,FEMALE	52	3
30556	ELEC,CONN,7 WIRE,FEMALE	52	4
30559	CLAMP,ROPE,WIRE,1/16	54	8
30559	CLAMP,ROPE,WIRE,1/16	55	5
30577	DECAL,RED REFL,2X9	12	2
30578	DECAL,AMBER REFL,2X9	12	3
30580	HYD,FIT,ELBOW,8MP-6MJ90	22	14
30581	HYD,FIT,ADAPTER,6FJX-6MB	22	12
30651	ROLLER,CHAIN,3ODX1-1/4ID	28	8
30652	DECAL,CAUTION,TIRES,90 PSI	12	4
30653	HYD,CHECK,PILOT,3X6MB	22	13
30663	NUT,HEX,5/8,UNC,GR5,ZP	43	1
31016	BOLT,HEX,1/2X1-1/2,UNC,GR5,ZP	20	3
31016	BOLT,HEX,1/2X1-1/2,UNC,GR5,ZP	28	12
31016	BOLT,HEX,1/2X1-1/2,UNC,GR5,ZP	30	4
31016	BOLT,HEX,1/2X1-1/2,UNC,GR5,ZP	33	9
31017	BOLT,HEX,1/2X1-3/4,UNC,GR5,ZP	49	8
31031	BOLT,HEX,1/4X2-1/2,UNC,GR5,ZP	35	7
31033	BOLT,HEX,1/4X3/4,UNC,GR5,ZP	18	8
31033	BOLT,HEX,1/4X3/4,UNC,GR5,ZP	54	5
31038	BOLT,HEX,1X7-1/2,UNC,GR5,ZP	33	10
31039	BOLT,HEX,1X9,UNC,GR5,ZP	35	8
31040	BOLT,HEX,3/4X2-1/2,UNC,GR5,ZP	38	15
31051	BOLT,HEX,5/8X1-1/2,UNC,GR5,ZP	18	9
31052	BOLT,HEX,5/8X2,UNC,GR5,ZP	14	4
31052	BOLT,HEX,5/8X2,UNC,GR5,ZP	16	5
31053	BOLT,HEX,5/8X1-3/4,UNC,GR5,ZP	31	4
31061	BOLT,U,SQ,1/2-13,3X7,1-1/4 THREAD	50	11
31159	NUT,ACME,1,5TPI,RH	18	10
31163	NUT,HEX,1/2,UNC,GR5,ZP	41	1
31163	NUT,HEX,1/2,UNC,GR5,ZP	42	1

31172	NUT,NYLOCK,1,UNC,ZP	33	11
31172	NUT,NYLOCK,1,UNC,ZP	35	9
31173	NUT,NYLOCK,1/2,UNC,ZP	16	6
31173	NUT,NYLOCK,1/2,UNC,ZP	18	11
31173	NUT,NYLOCK,1/2,UNC,ZP	20	4
31173	NUT,NYLOCK,1/2,UNC,ZP	28	13
31173	NUT,NYLOCK,1/2,UNC,ZP	33	12
31173	NUT,NYLOCK,1/2,UNC,ZP	49	9
31173	NUT,NYLOCK,1/2,UNC,ZP	50	12
31174	NUT,NYLOCK,1/4,UNC,ZP	22	26
31174	NUT,NYLOCK,1/4,UNC,ZP	35	10
31174	NUT,NYLOCK,1/4,UNC,ZP	50	13
31174	NUT,NYLOCK,1/4,UNC,ZP	54	6
31176	NUT,NYLOCK,3/8,UNC,ZP	22	27
31177	NUT,NYLOCK,5/16,UNC,ZP	22	28
31178	NUT,NYLOCK,5/8,UNC,ZP	14	5
31178	NUT,NYLOCK,5/8,UNC,ZP	16	8
31178	NUT,NYLOCK,5/8,UNC,ZP	30	5
31178	NUT,NYLOCK,5/8,UNC,ZP	31	5
31178	NUT,NYLOCK,5/8,UNC,ZP	38	14
31182	PIN,COTTER,1/4X2-1/2	33	13
31182	PIN,COTTER,1/4X2-1/2	34	5
31182	PIN,COTTER,1/4X2-1/2	38	9
31218	WASHER,LOCK,5/8,ZP	18	12
31235	WASHER,FLAT,1,ZP	48	5
31236	WASHER,FLAT,1/2,ZP	18	13
31236	WASHER,FLAT,1/2,ZP	33	14
31237	WASHER,FLAT,1/4,ZP	22	29
31239	WASHER,FLAT,5/16,ZP	22	30
31240	WASHER,FLAT,5/8,ZP	14	6
31240	WASHER,FLAT,5/8,ZP	18	14
31241	WASHER,FLAT,7/16,ZP	16	7
31243	WASHER,LOCK,1,ZP	18	15
31246	WASHER,LOCK,3/4,ZP	38	17
31319	WASHER,LOCK,3/8,ZP	49	10
31336	BOLT,HEX,5/8X3,UNC,GR5,ZP	14	7
31336	BOLT,HEX,5/8X3,UNC,GR5,ZP	38	13
31442	PIN,HITCH,3/8X3	54	4
31442	PIN,HITCH,3/8X3	55	3
31469	BOLT,HEX,3/4X7,UNC,GR5,ZP	38	16
31535	BOLT,HEX,1/4X1-1/2,UNC,GR5,ZP	50	14
31593	CLIP,AUTOMOTIVE,1/4,GR5,ZP	18	16
31605	PIN,HAIR,#210	38	10
31613	TIE,CABLE,NYLON,BLACK,11 1/2"	50	6
31613	TIE,CABLE,NYLON,BLACK,11 1/2"	52	8
31614	ELEC,CABLE,4-14,ULTRA-FLEX	52	5
31615	ELEC,LOOM,3/4,SPLIT,CORRIGATED	52	6
31648	GROM,RUBBER,1-3/8,3/4,1-1/16	50	7
31649	ELEC,CLAMP,CABLE,1/2	46	8
31649	ELEC,CLAMP,CABLE,1/2	50	8
31650	ELEC,CLAMP,CABLE,3/4	50	9

31667	SPRING,.120 HD,OD .859,4.75"	49	6
31673	ELEC,CONN,BUTT,10-12	52	2
31797	BOLT,SOCKET,1/2X2-3/4,UNC,GR5	18	17
31800	JACK,5000LBX15,SQ MNT,SIDEWIND	33	7
31800	JACK,5000LBX15,SQ MNT,SIDEWIND	37	1
31892	DECAL,WARNING,TENSION,CHAIN	12	5
32035	HYD,FIT,TEE,8MP-8MJ-8MJ	22	15
32055	HYD,HOSE,3/8X19,6MP-8FJX,1W	22	16
32071	WASHER,FLAT,1-1/4	18	18
32079	HYD,FIT,ELBOW,6MB-8MJ90	22	17
32208	SLEEVE,STOP,CABLE,5/32"	46	6
32250	HYD,CYL,PIN,1	41	6
32250	HYD,CYL,PIN,1	42	6
32250	HYD,CYL,PIN,1	43	5
32301	SUSP,BOLT,WHEEL,9/16X1-1/4TX1-13/16L	32	12
32334	SUSP,RIM,8X6.5,4,WHITE	40	1
32335	HUB	36	1
32336	SUSP,BOLT,WHEEL,1/2X1-1/4TX1-3/4L	36	5
32337	BEARING,RACE	36	4
32339	SEAL,GREASE	36	2
32639	BEARING,THRUST,FRONT	44	13
32647	HYD,MOTOR,SEALKIT,ROTOR,STATOR	44	1
32649	BEARING,HOUSING,REAR,1/2"	44	4
32651	BEARING,THRUST,REAR	44	2
32720	BRG,HOUSING,FRONT	44	3
32721	KIT,ROTOR	44	5
32722	KIT,LINK,DRIVE	44	6
32723	KIT,HOUSING	44	7
32724	KIT,SHAFT	44	8
32725	KIT,MANIFOLD	44	9
32726	PALTE,BALNCE	44	10
32727	COVER,END	44	11
32728	KIT,BOLT	44	12
32963	HYD,HOSE,3/8X15,8FJX,2000PSI,1W	22	19
32981	DECAL,PIMA	12	13
33014	SUSP,TUBE,11L-15	40	4
33015	HYD,CYL,TIEROD,1/2X10	42	15
33206	COLLAR,SHAFT,1/2,2_PIECE	49	7
33207	ROPE,WIRE,5/32",STRAND	46	4
33207	ROPE,WIRE,5/32",STRAND	46	5
33233	HYD,HOSE,3/8X10,8FJX-8FJX90T,1W	22	18
33234	NUT,STOVER,3/4,UNC,GR5,ZP	38	18
33316	OIL,HYDRAULIC,UTF	38	11
33438	KIT,PIN&CHAIN-5/8"X4.25"	37	2
33439	KIT,5K BEARING REPLACEMENT	37	3
33440	KIT,STD BEVEL GEAR REPLAC.	37	4
33441	KIT,SW CRN CRANK REPLAC.	37	5
33442	COVER,GEARBOX	37	6
40003	PIN,HITCH	33	1
40010	PIN,ARM,SIDE,PIVOT	38	1
40019	PIN,LOCK,SAFETY	28	1

40085	ARM,DIVIDER,BALE	20	1
40088	BUMPER,BALE	30	1
40102	ELEC_BOX,CONTROL,5&7BM	22	1
40115	TIGHTENER,MOTOR,LEFT	18	1
40116	TIGHTENER,MOTOR,RIGHT	18	2
40118	MOUNT,BUMPER,BALE	30	2
40121	PIN,SPROCKET,REAR	28	2
40134	RAIL,LEFT	28	3
40135	RAIL,RIGHT	28	4
40136	ARM,SUPPORT,WHEEL,CASTOR	34	2
40140	BRACKET,CYLINDER	16	1
40142	HITCH,TONGUE,DOUBLE	33	2
40163	ELEC_HARNESS,LIGHTS,5&7BM	50	1
40176	WHEEL,CASTOR	34	1
40490	HITCH,CROSSMEMBER	33	3
42061	TETHER,1/16X14-1/2,C/W_HAIRPIN	28	5
42100	WLDT,ARM,INNER,RT	38	2
42102	WLDT,ARM,FORK,OUTERRT	38	3
42103	WLDT,PIN,FORK,PIVOT	38	4
42104	WLDT,PIN,FORK,ADJUSTMENT	38	5
42105	WLDT,PIN,LIFT	38	6
45010	HITCH,A-FRAME,LEFT	33	4
45011	HITCH,A-FRAME,RIGHT	33	5
45016	DIVIDER,BALE	20	2
45025	PIN,ARM,PIVOT,WHEEL,CASTOR	34	3
45130	FRAME,REAR	28	6
45233	FRAME,7BM	16	2
45239	AXLE	31	1
45240	POCKET,AXLE,MIDDLE	31	2
45278	MOUNT,LIGHT,BM,LEFT	54	1
45279	MOUNT,LIGHT,BM,RIGHT	55	1
45280	MOUNT,BRKT,LIGHT,BM,LT	54	2
45281	MOUNT,BRKT,LIGHT,BM,RT	55	2
45282	ASSY,MOUNT,LIGHT,BM,LT	50	2
45283	ASSY,MOUNT,LIGHT,BM,RT	50	3
49453	ASSY,INDICATOR,REAR	46	1
49454	WLDT,PADDLE,INDICATOR	48	1
49455	ASSY,INDICATOR,FRONT	46	2
49456	WLDT,ROD,INDICATOR	49	1
49457	WLDT,BRACKET,REAR	48	2
49460	WLDT,FORK,OUTER,RT	38	7
49461	WLDT,FORK,INNER,RT	38	8
70063	FORK,WHEEL,CASTOR	35	1
90117	HYD,CYL,3X8,1.25,8FP	34	4
90118	HYD,CYL,3X10,1.25,8FP	33	8
90120	HYD,CYL,3.5X13,1.5NITRO,8FP	38	12
90301	HYD,HOSE,3/8X120,8MP-8FJX,1W	22	20
90305	HYD,HOSE,3/8X30.5,9MP-8FJX,1W	22	21
90308	HYD,HOSE,3/8X50,8FJX-6MP,1W	22	22
90310	HYD,HOSE,1/2X96,10MB-8MP,1W	15	4
90313	HYD,HOSE,3/8X18,8FJX-8FJX,1W	22	23

91005	SUSP,TIRE,16X6.5-8,4PLY	40	2
91048	SUSP,STEM,VALVE,TR801HP	40	3
91048	SUSP,STEM,VALVE,TR801HP	40	3
91073	SUSP,HUB,HDA211F	35	2
91111	DRV,BRG,TAPERED,OUTER,1.375	32	8
91113	BEARING	36	3
91131	DRV,BRG,RACE,OUTER,1.375	32	9
91133	DRV,BRG,TAPERED,INNER,1.781	32	10
91508	DRV,CHAIN,ROLLER,2062H,304	28	9
91510	CHAIN,CONNECTOR,C2062	28	10
92014	CLAMP,CABLE,1/4	46	9
92024	DRV,BUSHING,2232400-24	28	11
92028	SIGN,SLOWMOVING,S279.5	54	3
92061	BUMPER,RUBBER	16	4
92063	DRV,SPROCKET,2062,10TOOTH,1-1/4	18	6
92078	ELEC_HARNESS,CONTROL,5&7BM	22	24
92089	HYD,VALVE,SOLENOID	22	25
92103	ELEC_CONNECTOR,M,2-PIN	25	1
92105	ELEC_CONNECTOR,F,2-PIN	26	1
92105	ELEC_CONNECTOR,F,2-PIN	56	1
92107	ELEC_SWITCH,ROCKER,3,NO	26	2
92119	SCREW,THUMB,10X3/4,UNC	26	3
92136	ELEC,SWITCH,TOGGLE,2FA53-73	26	4
92138	ELEC_HOLDER,BUS,BODY	26	5
92139	ELEC_HOLDER,BUS,CAP	26	6
92140	ELEC_FUSE,BUS,12V20A,FAST	26	7
92142	RELIEF_BUSHING,1260	26	8
92143	ELEC,LOOM,1/2,SPLIT,CORRIGATED	52	7
92146	PLASTIC,ENCLOSURE	26	9
92151	ELEC,WIRE,16GA,STRAND,RED	26	10
92151	ELEC,WIRE,16GA,STRAND,RED	56	2
92156	ELEC,WIRE,2C-16GA,STRAND,RED/BLACK	25	2
92156	ELEC,WIRE,2C-16GA,STRAND,RED/BLACK	26	11
92156	ELEC,WIRE,2C-16GA,STRAND,RED/BLACK	56	3
92157	ELEC_CONNECTOR,M,PIN	25	3
92158	ELEC_CONNECTOR,F,SOCKET	26	12
92158	ELEC_CONNECTOR,F,SOCKET	56	4
92159	ELEC_CONNECTOR,M,WEDGE,2PIN	25	4
92160	ELEC_CONNECTOR,F,WEDGE,2PIN	26	13
92160	ELEC_CONNECTOR,F,WEDGE,2PIN	56	5
92163	ELEC_DIODE,12V,20A	26	14
92164	SCREW,TAP,#3X1/4,ZP	26	15
92165	ELEC_CONNECTOR,QD,188F,16-14,ST,INS	26	16
92165	ELEC_CONNECTOR,QD,188F,16-14,ST,INS	56	6
92166	ELEC_CONNECTOR,RING,3/8,16-14,ST,INS	25	5
92166	ELEC_CONNECTOR,RING,3/8,16-14,ST,INS	26	17
92166	ELEC_CONNECTOR,RING,3/8,16-14,ST,INS	56	7
92168	ELEC_CONNECTOR,ADP,1/4,F/M/M,ST,NON	26	18
92169	ELEC_CONNECTOR,QD,250F,16-14,ST,INS	25	6
92169	ELEC_CONNECTOR,QD,250F,16-14,ST,INS	26	19
92169	ELEC_CONNECTOR,QD,250F,16-14,ST,INS	56	8

92170	TIE,CABLE,4",BLACK	52	9
92184	HYD,MOTOR,45,2000PSI	18	7
92221	FACEPLATE,CONTROLBOX,5&7	26	20
92556	DECAL,CAUTION,MOVINGCHAIN	12	6
92559	DECAL,CAUTION,TOWSPEED	12	7
92562	DECAL,WARNING,HITCH,JACK	12	8
92563	DECAL,CAUTION,INSTALLPIN	12	9
92583	DECAL,HIGHLINE,3-1/2	12	10
92585	DECAL,700	12	11
92586	DECAL,PINSTRIPPING,7	12	12
E2852	SPACER,WHEEL,CASTOR,TOP	35	3
E2853	PIPE,SMLS,1-3/4X.240X1/4L	35	4
E4496	LUG,EXTENSION,CHAIN,TRANS	14	1
E4726	BLOCK,TEE,HYD	22	2
E4751	PLT,S,BRACKET,BOX,CONTROL	26	21
E4802	HOUSING,GUARD,RIGHT	18	3
E4803	PLT,S,FACE,GUARD	18	4
E4810	HOUSING,GUARD,LEFT	18	5
E4835	PIPE,SMLS,1-1/4X1/8WX1-3/8L	35	5
E4836	PIPE,SMLS,1-1/4X1/8WX2-1/4L	35	6
E5307	LINK,ROLLER,C2064	28	14
E5351	TETHER,16"	54	7
E5351	TETHER,16"	55	4
E5652	LUG,EXTENSION	14	2
E5653	CHAIN,LINK,1/2,GR40,5 LINKS	14	3
E5804	DECAL,CONTROLBOX,FACEPLT,5&7BM	26	22
E6328	REFLECTIVE,TAPE,SELECTOR	46	3
E6423	ANGLE,MOUNT,SPRING	49	2
E6425	PLT,FLAG,INDICATOR	49	3
E6858	ANGLE,MOUNT,ROD	49	4

9.0 Specifications

<i>Weight</i>	<i>Approximately 5,100 lbs (2,318 kg)</i>
<i>Hitch Weight (with fully loaded bed)</i>	<i>1,160 lbs (527 kg)</i>
<i>Total Length</i>	<i>41'7"</i>
<i>Bed Length</i>	<i>37"</i>
<i>Total Width</i>	<i>8'</i>
<i>Bed Width</i>	<i>2'</i>
<i>Total Height</i>	<i>9'2"</i>
<i>Bed Height</i>	<i>3'3"</i>
<i>Ground Clearance</i>	<i>13-1/2"</i>
<i>Maximum Capacity</i>	<i>Seven - 2,200 lb Bales to Max. 15,400 lb payload</i>
<i>Chain & Sprocket</i>	<i>Heavy Duty ASA 2062, 1-1/2 Pitch</i>
<i>Tires</i>	<i>Goodyear, 11L-15FI, F Ply Farm Highway Service</i>
<i>Undercarriage</i>	<i>Two – 2 wheel oscillating tandems</i>
<i>Horsepower Required</i>	<i>80 hp</i>
<i>Hydraulic Outlets</i>	<i>Two</i>

Dealer Information

Dealer: _____

Address: _____

City: _____

Province / State: _____

Postal Code / Zip Code: _____

Phone: _____

Identification Numbers

Model Number: _____

Serial Number: _____

Dealer Checklist

Bale Mover Dealer Checklist

Pre-Assembled Units	Packaged Units	Check List Item
		Install chains on machine, with hydraulic motors.
		Ensure roller chains are running straight down the center of the
		channel to prevent jumping of the chains.
		Check for chain clearance between the rear sprocket and the slide plate.
		Install SMV sign.
		Tail/warning lights installed.
		Install tethered loader fork transport lock pin shipped w/machine.
		Ensure all grease points are lubricated.
		Check tire pressure and adjust as required.(as specified on tire)
		Install deck cylinder.
		Install right and left hydraulic motor guards with plate guards.
		Install right and left chain tightners.
		Install hitches, Hitch crossmember, and Hitch tongue.
		Install rear sprockets, with rear pin assembly.
		Install rubber bumpers.
		Check or Tighten roller chain to specified tension.
		Install castor wheel, pivot arm assmbles (5 and 7 BM)
		Install Jack.
		Full library of manuals (operators, and parts) shipped w/machine.
		Mini operators manual w/tether cable shipped w/machine.
		Verify serial plate is attached
		Check tire hubs for proper bearing adjustment.
		Hook up to tractor and check all functions - cylinders, motors, lights.

Check the Shaded areas only.