

1400 Bale Mover

2002 Owner's Manual



Before operating the Bale Mover 1400, 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 1400, a proven name in the bale handling field, is made by Highline Mfg. Inc. The Bale Mover 1400 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 1400 as the machine for your bale handling needs.

*Chuck Lepage, President
Highline Mfg. Inc.*

P.O. Box 307, Vonda, Saskatchewan, S0K 4N0

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

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

Safety Precautions

WORK SAFELY – FOLLOW THESE INSTRUCTIONS

Failure to follow these safety instructions could result in serious injury or death.

CAREFUL OPERATION IS THE BEST INSURANCE AGAINST AN ACCIDENT!

- Always disengage the hydraulic motors before dismounting tractor for any reason.
- Keep yourself and others clear of any rotating or moving 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.

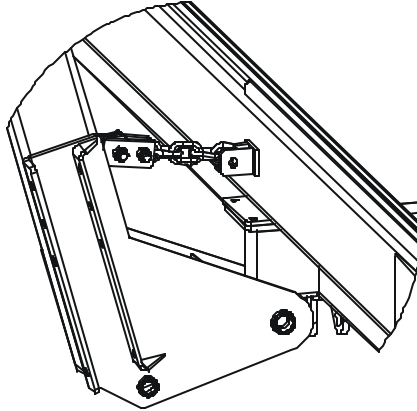


Figure 1 - Locks in Transport Position

1.2 Transporting Instructions

To ensure safe transport of the Bale Mover 1400, 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.

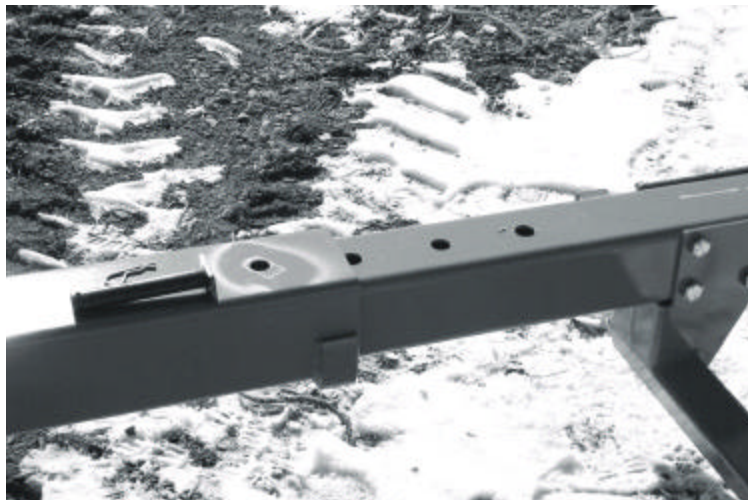


Figure 2 – Adjusting Forks

1.4 Field Instructions

For proper operation, the Bale Mover 1400 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 1400, follow these maintenance procedures.

- Periodically check tire air pressure to maintain equal tire pressure. The operating tire pressure on hard surface sure 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.
- Wheel bearings should be repacked yearly.
- 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

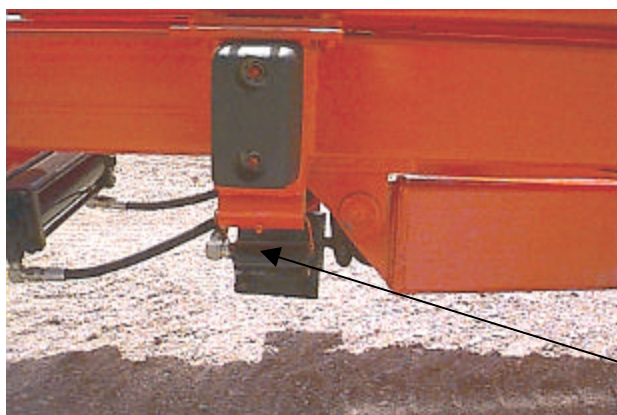
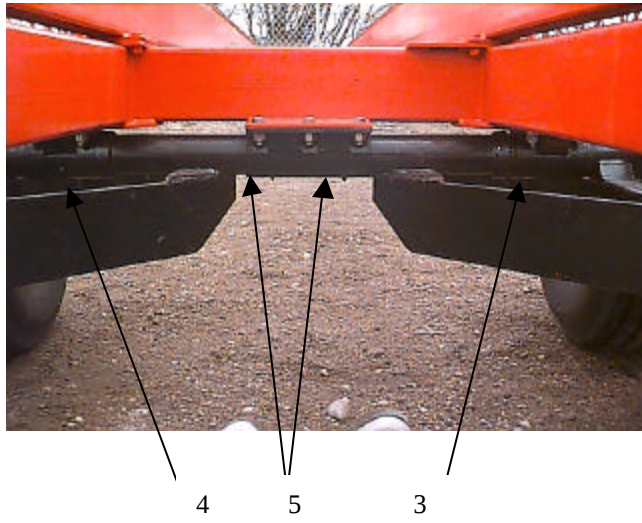


Figure 4 - Pivot Slide Arm Grease Location

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

2.2 Tire Removal Procedure

There are several methods used to remove the tires on the 14 Bale Mover. Following are the common procedures used.

RAISING THE TIRES OFF THE GROUND

A.

1. Leaving the tractor hitched to the Bale Mover and apply the parking brake.
2. Block the Bale Mover tires opposite the side which the tire will be removed.
3. Use two jacks (hydraulic or pin) under the main frame of the Bale Mover to raise the side of the Bale Mover high enough to swing the axle so the tire can be removed. Block the Bale Mover frame in this location.

B.

1. Leave the tractor hitched to the Bale Mover and apply the parking brake.
2. With the deck cylinder retracted, secure the end of the Bale Mover rails so they cannot be lowered. This can be done by blocking each rail or backing the bale mover into a sloped roadway and then applying the tractor parking brake.
3. Extend the deck cylinder to raise the tires off the ground.

****ENSURE THE DECK AND/OR DECK CYLINDER IS SECURED SO THE DECK CANNOT BE LOWERED****

TIRE REMOVAL

A.

1. With the tires off the ground, rotate the axle so the tire to be removed is below the frame. Secure the axle so the axle cannot rotate.
2. Remove the tire.

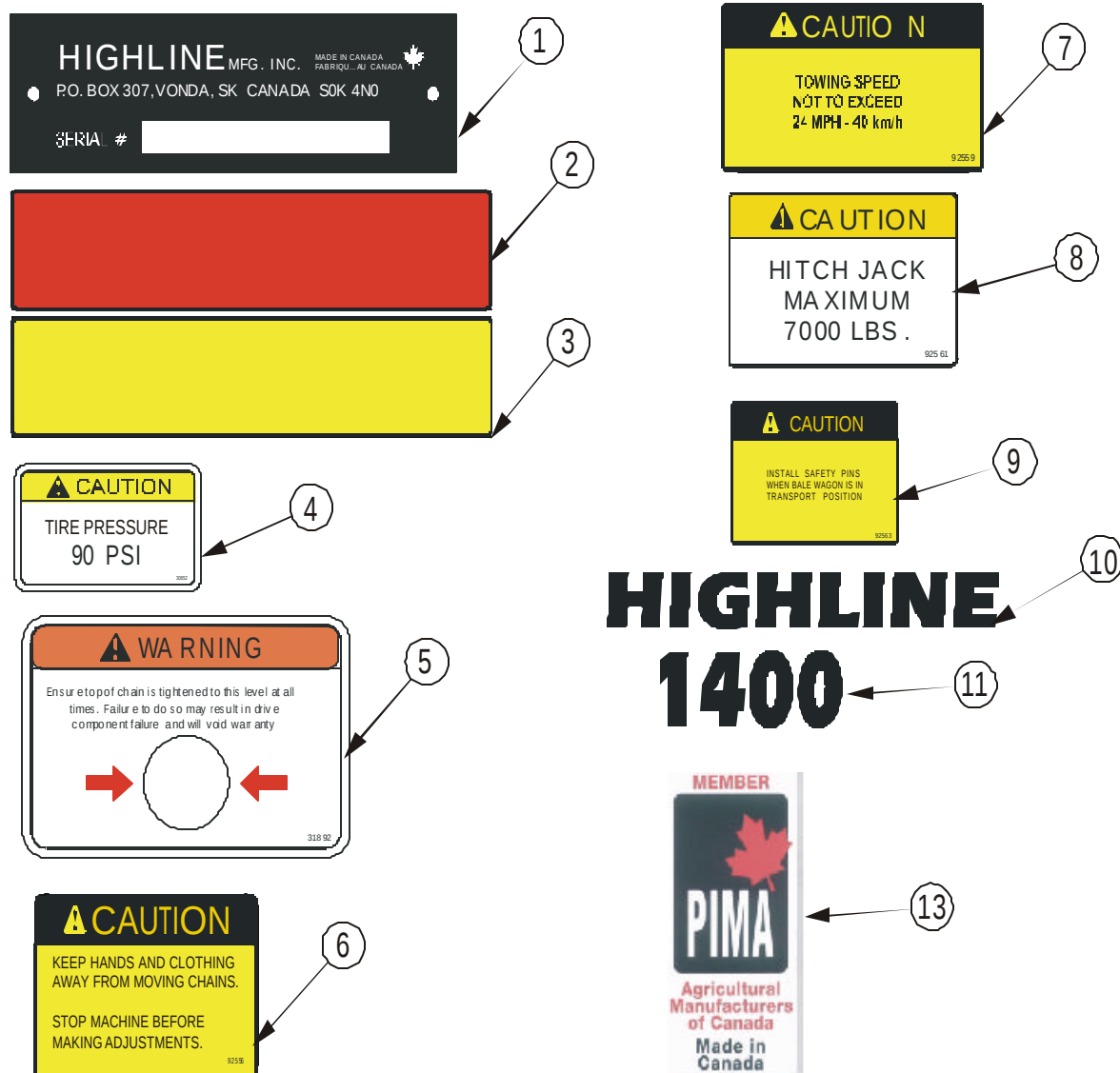
B.

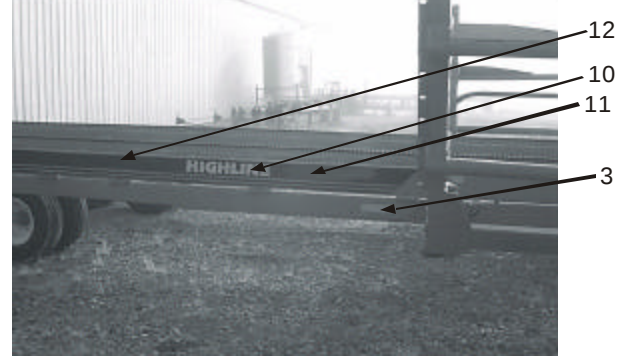
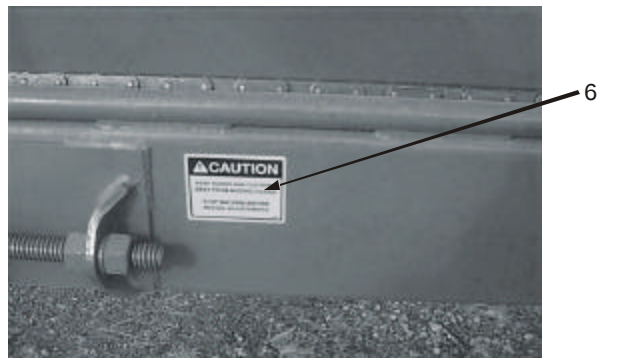
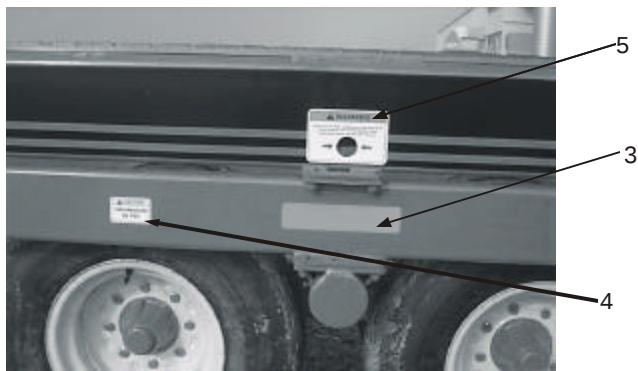
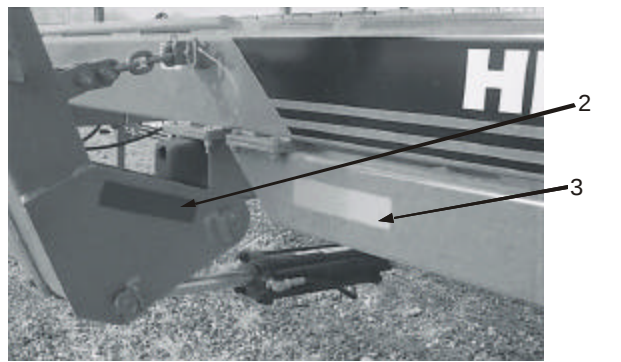
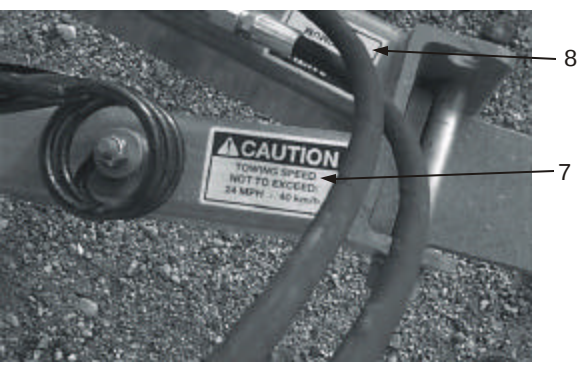
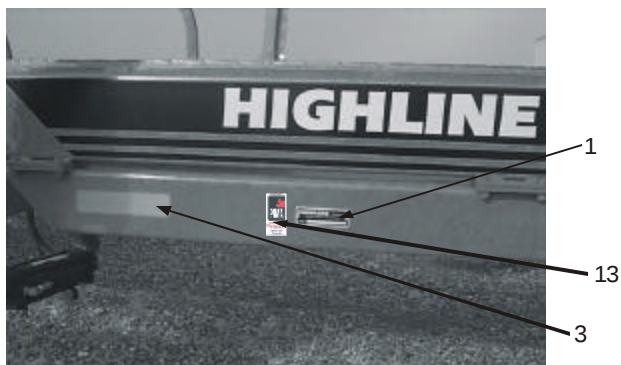
1. With the tires off the ground, remove the outside axle mount and loosen the inside axle mount. Remove the axle with tires attached.
2. Remove the tire.

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3.0 Decal Assembly (Part No. 45258)

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	30208	PLT,SERIAL#	1
2	30577	DECAL,RED REFL,2X9	2
3	30578	DECAL,AMBER REFL,2X9	11
4	30652	DECAL,CAUTION,TIRES,90PSI	4
5	31892	DECAL, WARNING,TENSION,CHAIN	4
6	92556	DECAL,CAUTION,MOVINGCHAIN	2
7	92559	DECAL,CAUTION,TOWSPEED	1
8	92561	DECAL,WARNING,HITCH,JACK,7000	1
9	92563	DECAL,CAUTION,INSTALLPIN	2
10	92583	DECAL,HIGHLINE,3-1/2	4
11	92584	DECAL,HIGHLINE,1400	4
12	92586	DECAL,PINSTRIPPING,7	62
13	32981	DECAL,PIMA	1

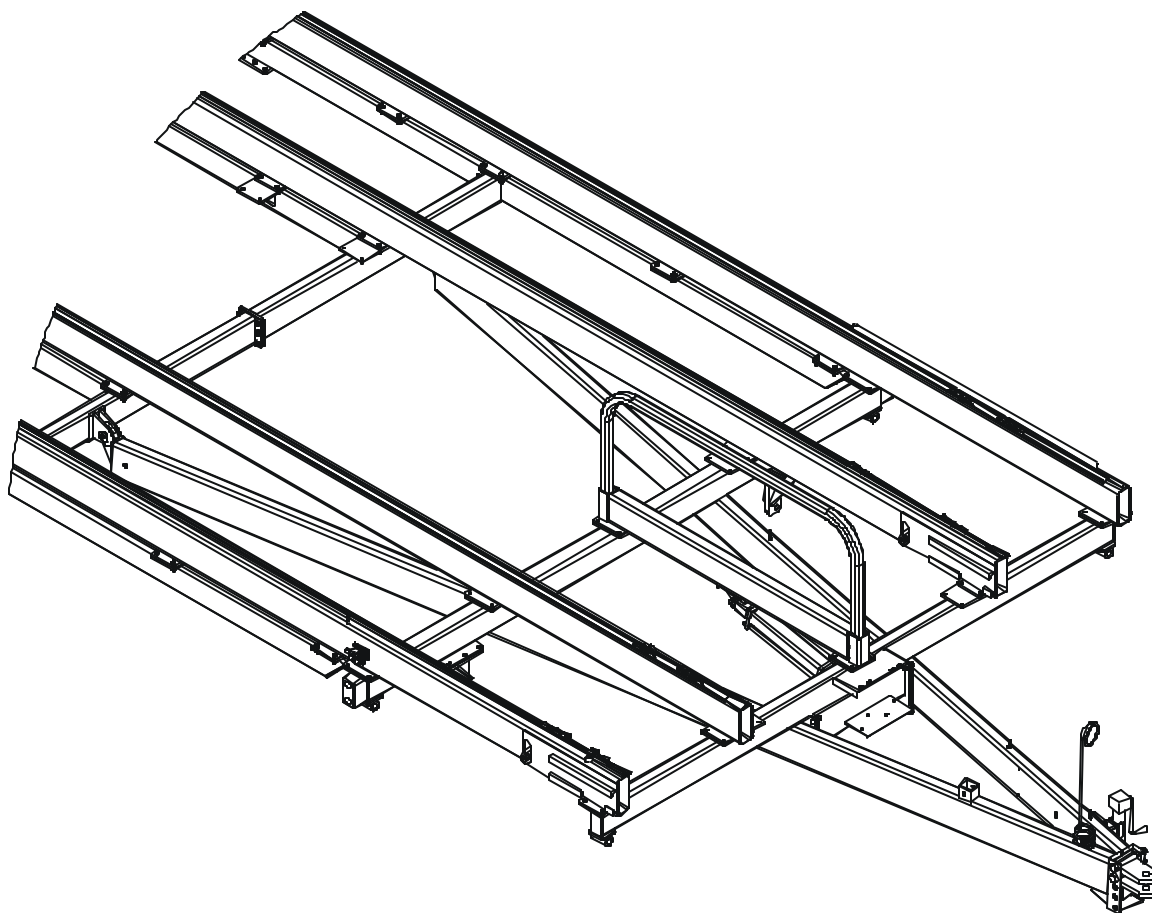


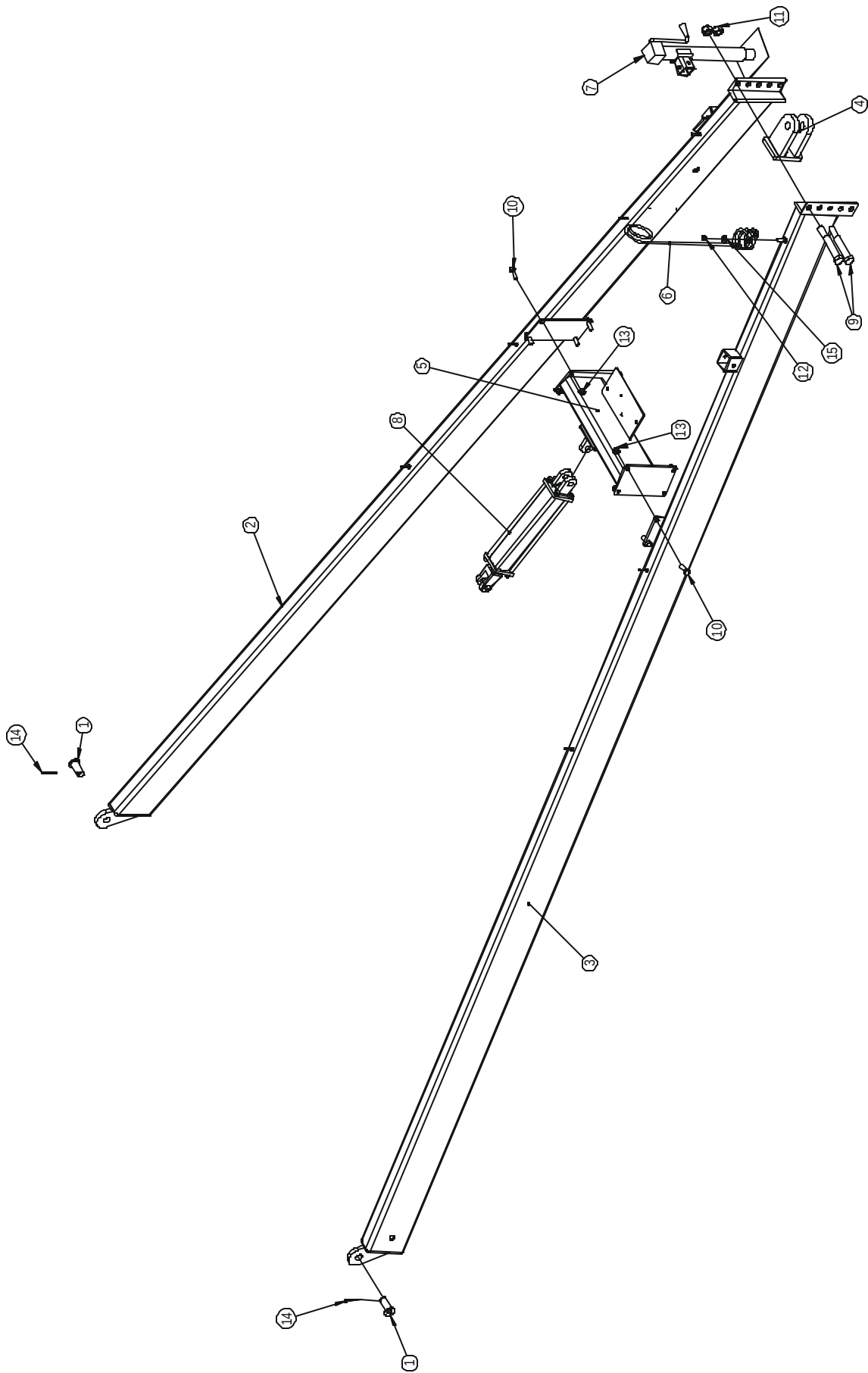


4.0 Parts Information

4.1 Hitch Assembly (Part No. 42056)

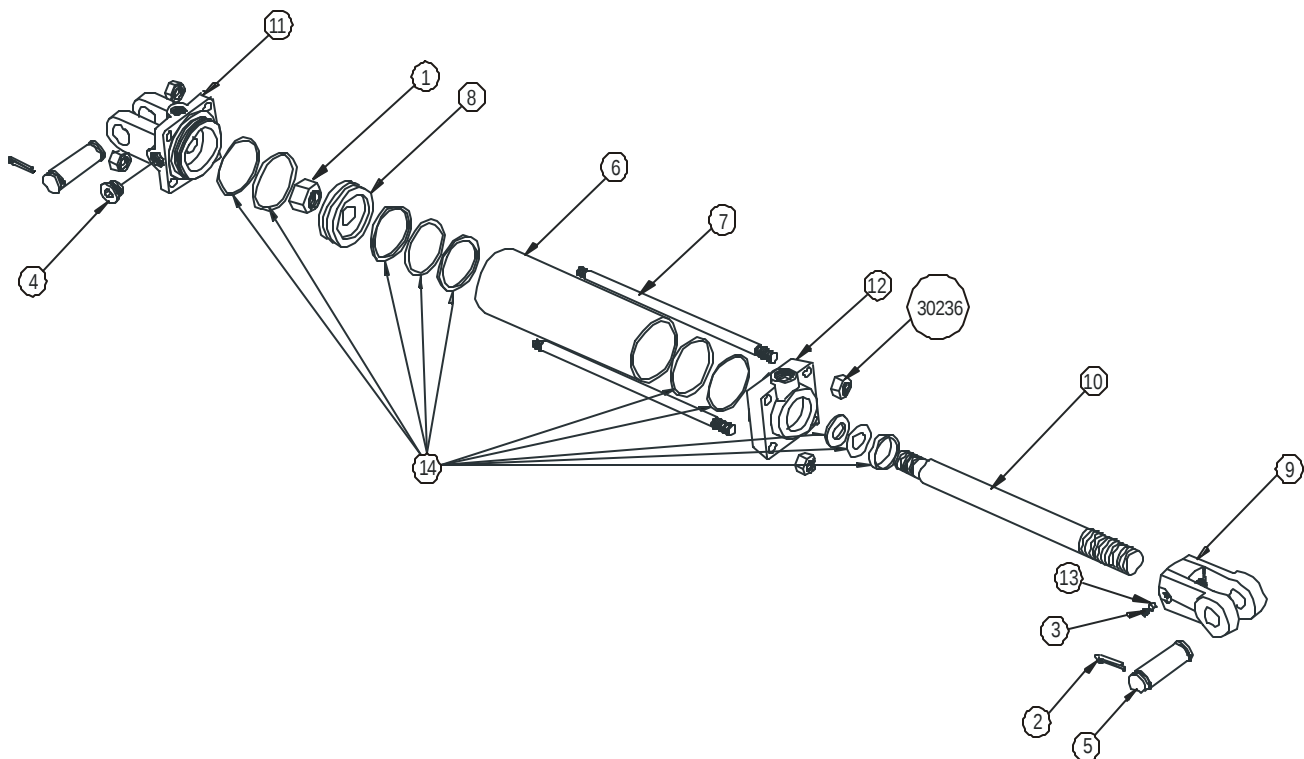
ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	40003	PIN,HIT CH	2
2	40062	HITCH,A-FRAME,LEFT	1
3	40063	HITCH,A-FRAME,RIGHT	1
4	40142	HITCH,TONGUE,DOUBLE	1
5	40487	HITCH,CROSSMEMBER	1
6	30206	HYD,HOLDER,HOSE,1/2	1
7	31933	JACK,7000LBX15,SQ MNT,SIDEWIND	1
8	90103	Hyd,Cyl,3.6X16,1.5,8FP	1
9	31038	BOLT,HEX,1X7-1/2,UNC,GR5,ZP	2
10	31053	BOLT,HEX,5/8X1-3/4,UNC,GR5,ZP	8
11	31172	NUT,NYLOCK,1,UNC,ZP	2
12	31173	NUT,NYLOCK,1/2,UNC,ZP	1
13	31178	NUT,NYLOCK,5/8,UNC,ZP	8
14	31182	PIN,COTTER,1/4X2-1/2	2
15	31236	WASHER,FLAT,1/2,ZP	1





4.1.1 3.5x16 Hydraulic Cylinder (Part No. 90103)

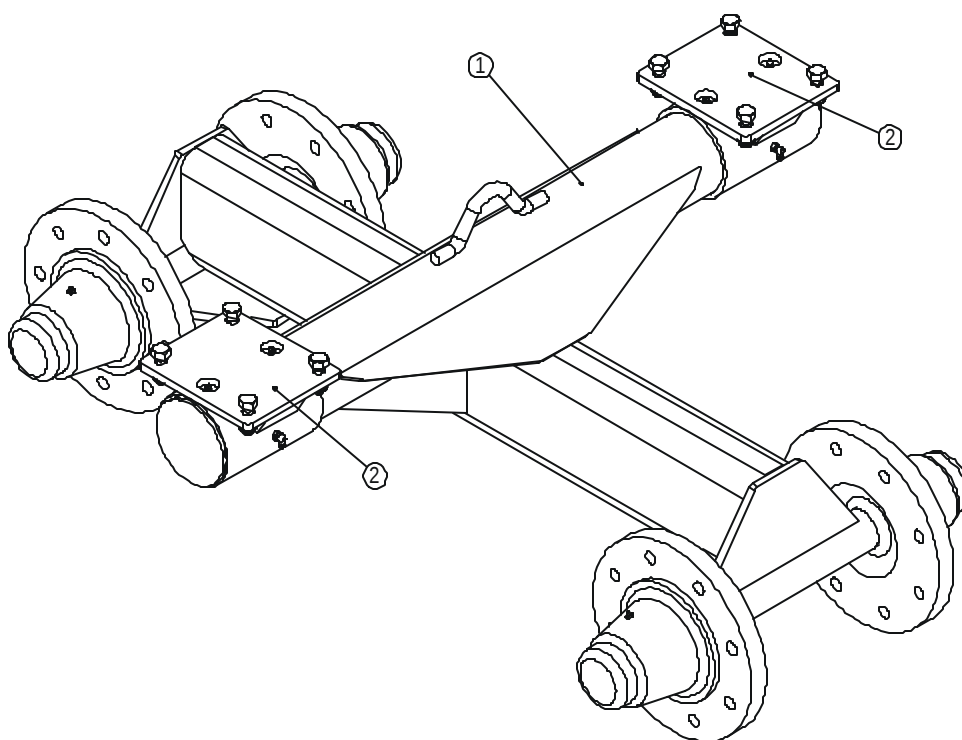
ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	30237	Nut, Hex, 1, UNS, GR5	1
2	30238	Pin, Cotter, 3/16 x 1-1/2	4
3	30239	Setscrew, Socket, 3/8 x 1/2 Knur	1
4	30240	Hyd, Fit, Plug, 1/2-14 NPTF, Dry	1
5	32250	Hyd, Cyl, Pin, 1	2
6	30246	Hyd, Cyl, 3-1/2 x 16, H6206	1
7	30249	Hyd, Cyl, Tie rod, 5/8 x 16, H6678	4
8	30251	Hyd, Cyl, Piston, 3-1/2, H6688	1
9	30253	Hyd, Cyl, Clevis, 1-1/4, 1 Pin	1
10	30252	Hyd, Cyl, Rod, 1-1/2 x 16	1
11	30258	Hyd, Cyl, Clevis, Cap, 3-1/2, NPTF	1
12	30259	Hyd, Cyl, Cap, Rod, 3-1/2 x 1-1/2	1
13	30261	Lock, Thread, Nylock	1
14	30263	Hyd, Cyl, Seal kit, 3-1/2	1

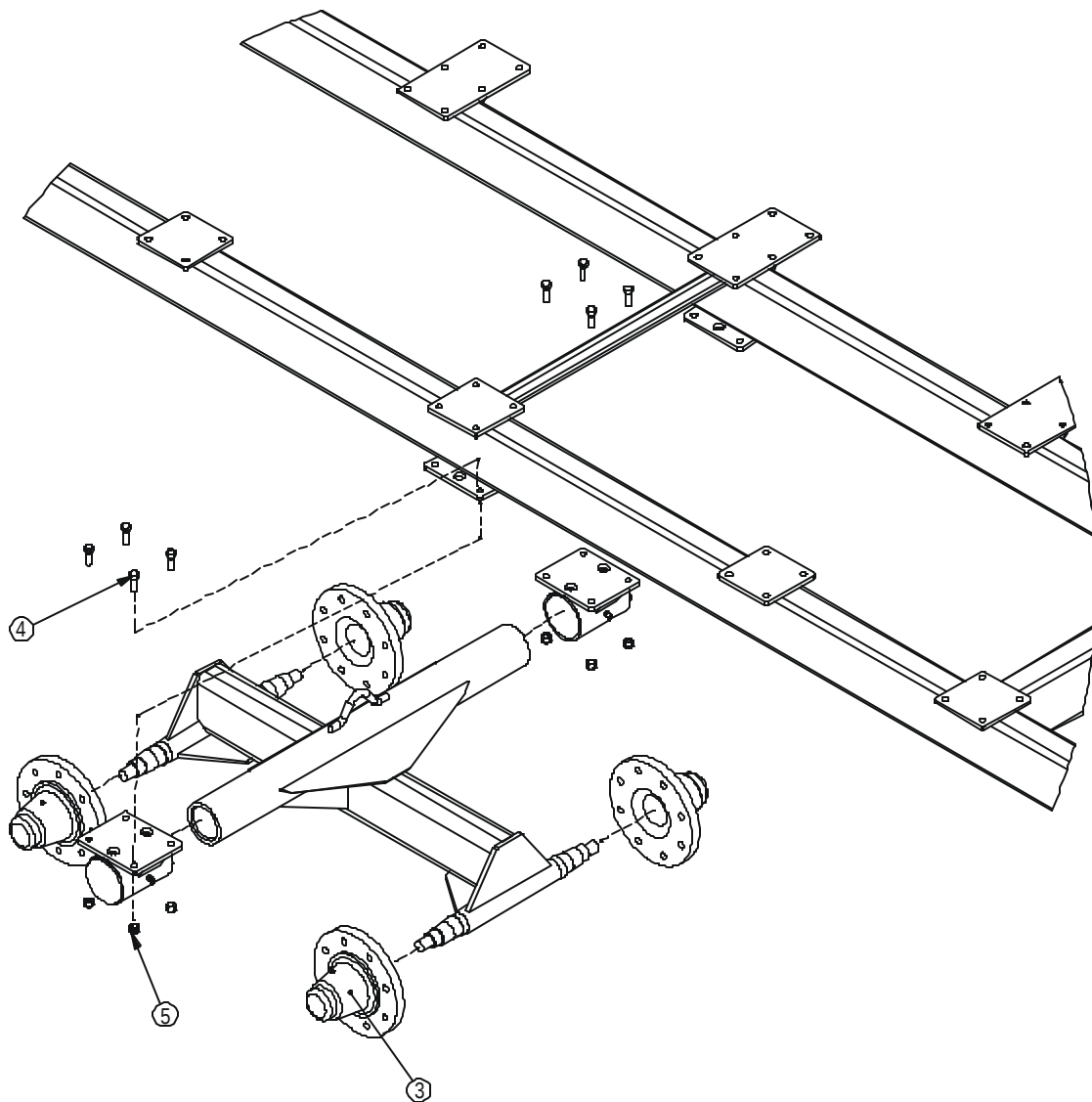


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4.2 Tandem Axle Assembly (Part No. 42057)

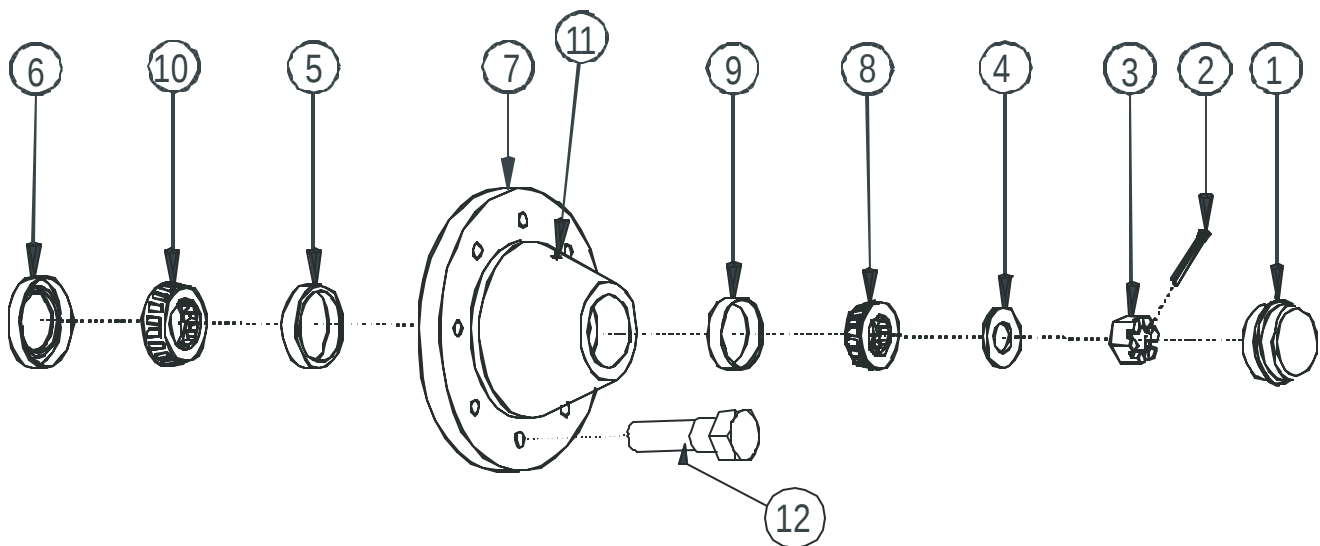
ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	45242	AXLE	1
2	45243	POCKET,END,AXLE	2
3	30102	SUSP,HUB,COMPLETE,EM5500	4
4	31016	BOLT,HEX,1/2X1-1/2,UNC,GR5,ZP	8
5	31173	NUT,NYLOCK,1/2,UNC,Z P	8





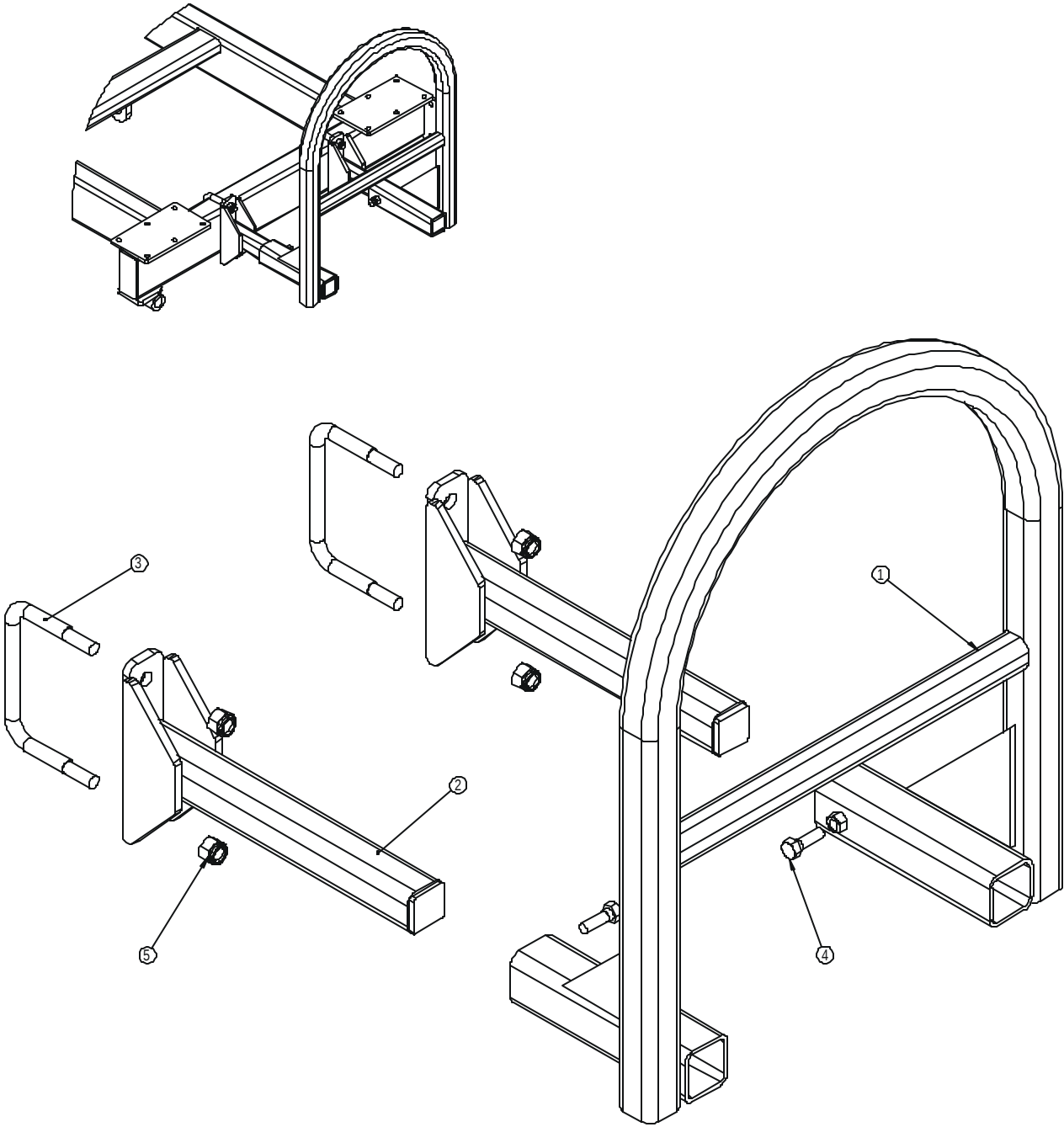
4.2.1 EM5500 Hub Assembly (Part No. 30102)

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	30220	SUSP, CAP,DUST	1
2	30221	PIN,COTTER,3/16X1-3/4	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



4.3 Front Bale Bumper Assembly (Part No. 42059)

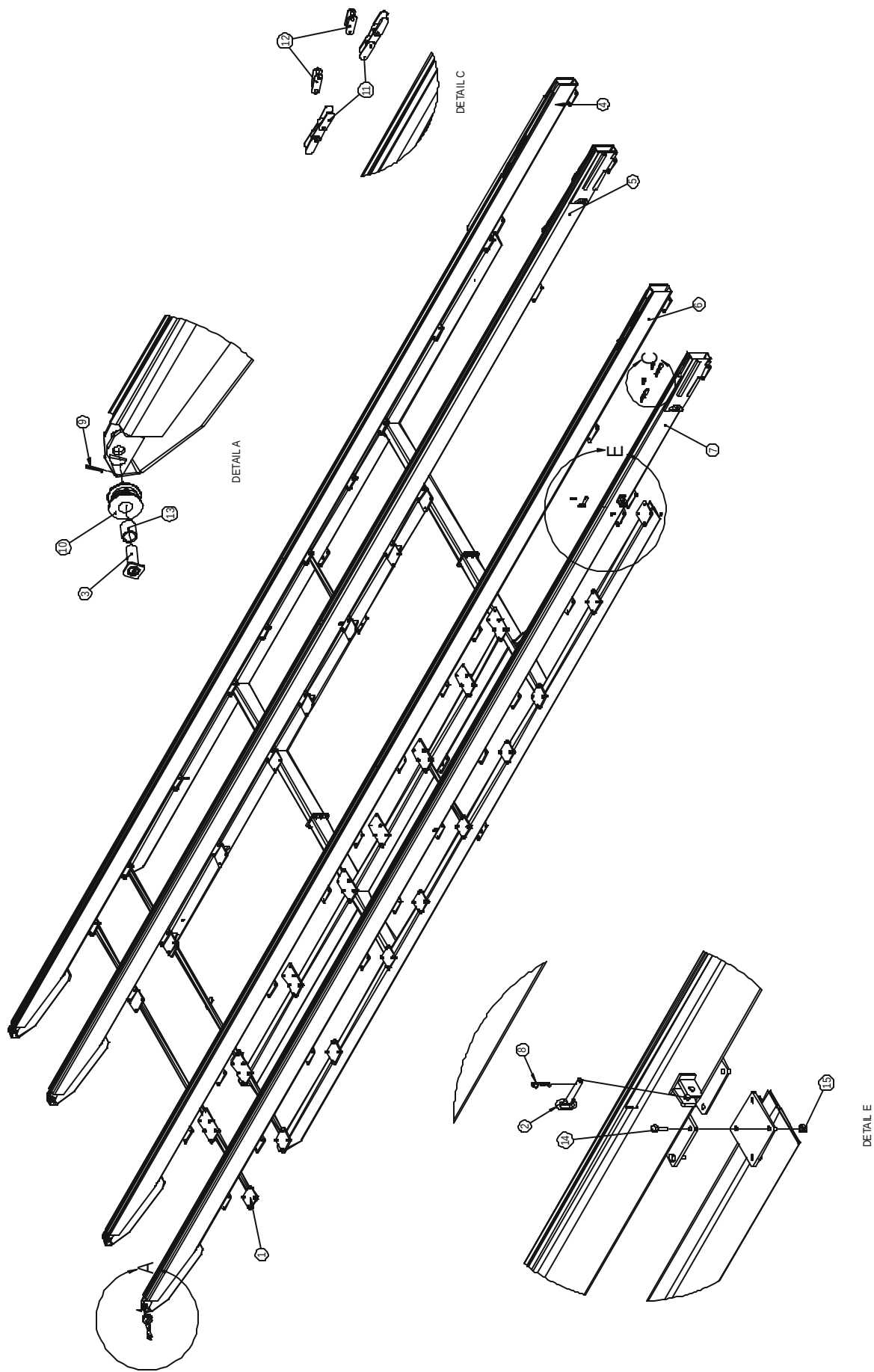
ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	40088	BUMPER,BALE	1
2	40118	MOUNT,BUMPER,BALE	2
3	30269	BOLT,U,SQ,5/8-11, 6x4-1/2,1-1/2	2
4	31016	BOLT,HEX,1/2X1-1/2,UNC,GR5,ZP	2
5	31178	NUT,NYLOCK,5/8,UNC,ZP	4



4.4 Rail Assembly (Part No. 42062)

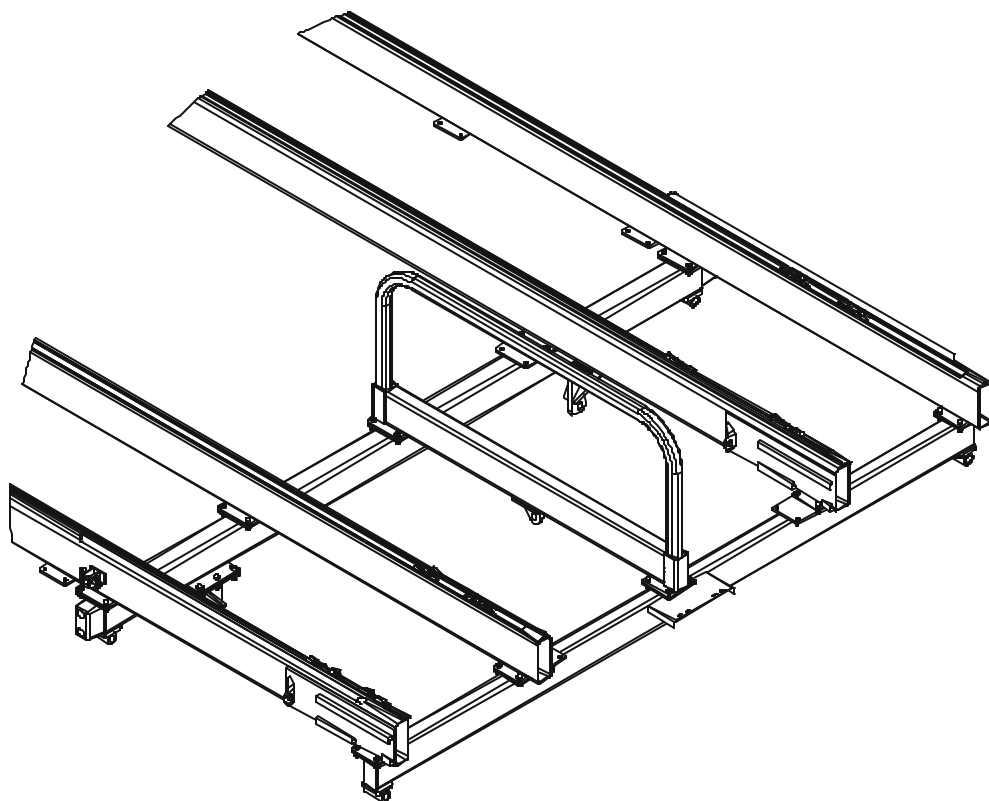
ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	40006	FRAME,SUB,REAR	1
2	40019	PIN,LOCK,SAFTEY	2
3	40121	PIN,SPROCKET,REAR	4
4	40144	RAIL,OUTSIDE,LEFT	1
5	40145	RAIL,INSIDE,LEFT	1
6	40146	RAIL,INSIDE,RIGHT	1
7	40147	RAIL,OUTSIDE,RIGHT	1
8	42061	TETHER,1/16X14-1/2,C/W HAIRPIN	2
9	30197	PIN,SPRING,3/16X1-1/2	4
10	30651	ROLLER,CHAIN,30DX1-1/4ID	4
11	91508	DRV,CHAIN,ROLLER,2062H,304	8
12	91510	CHAIN,CONNECTOR,C2062	8
13	92024	DRV,BUSHING,2232400-24	4
14	31016	BOLT,HEX,1/2X1-1/2,UNC,GR5,ZP	144
15	31173	NUT,NYLOCK,1/2,UNC,ZP	144
*16	E5307	ROLLER LINK	

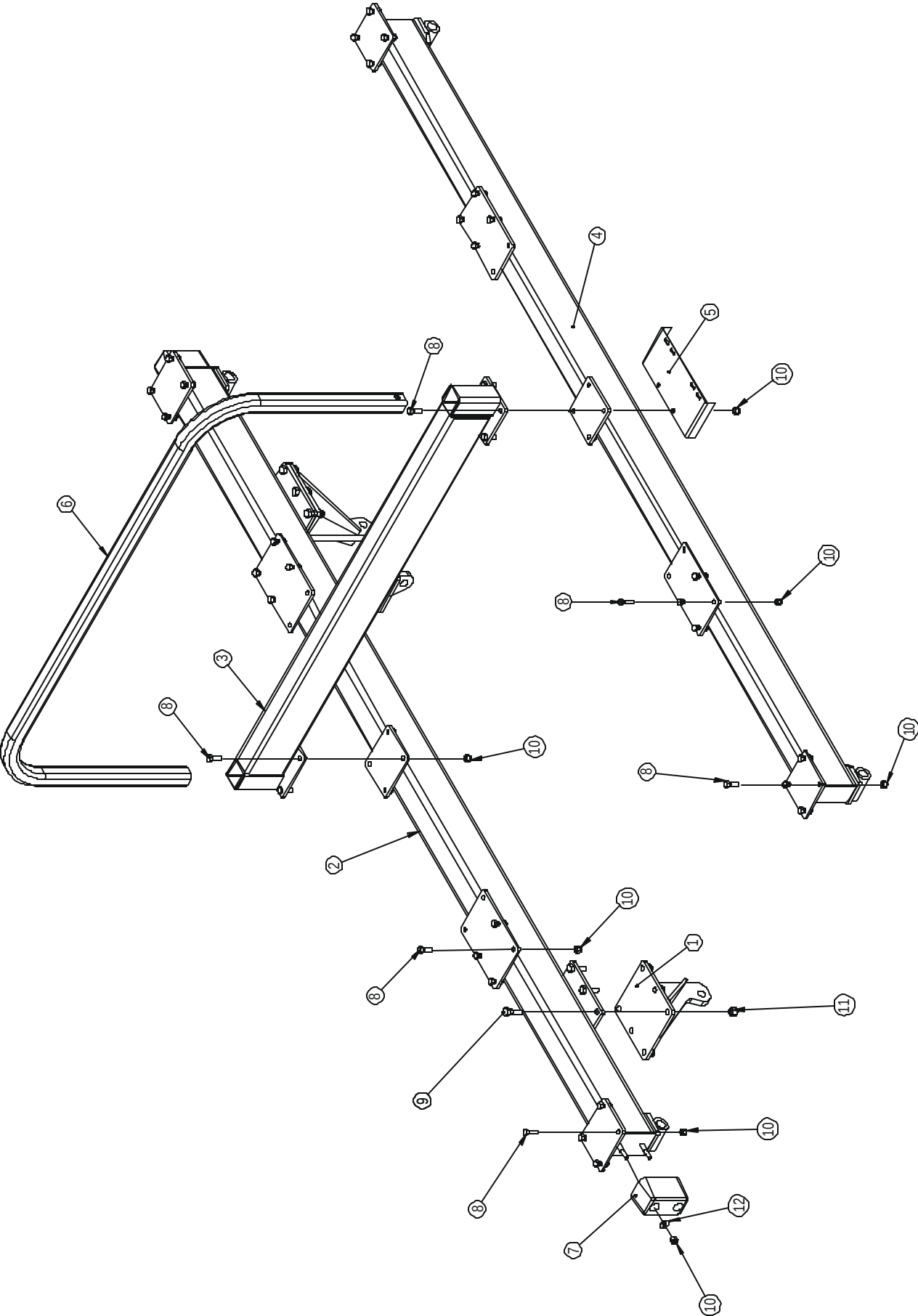
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4.5 Fork Mount Assembly (Part No. 42064)

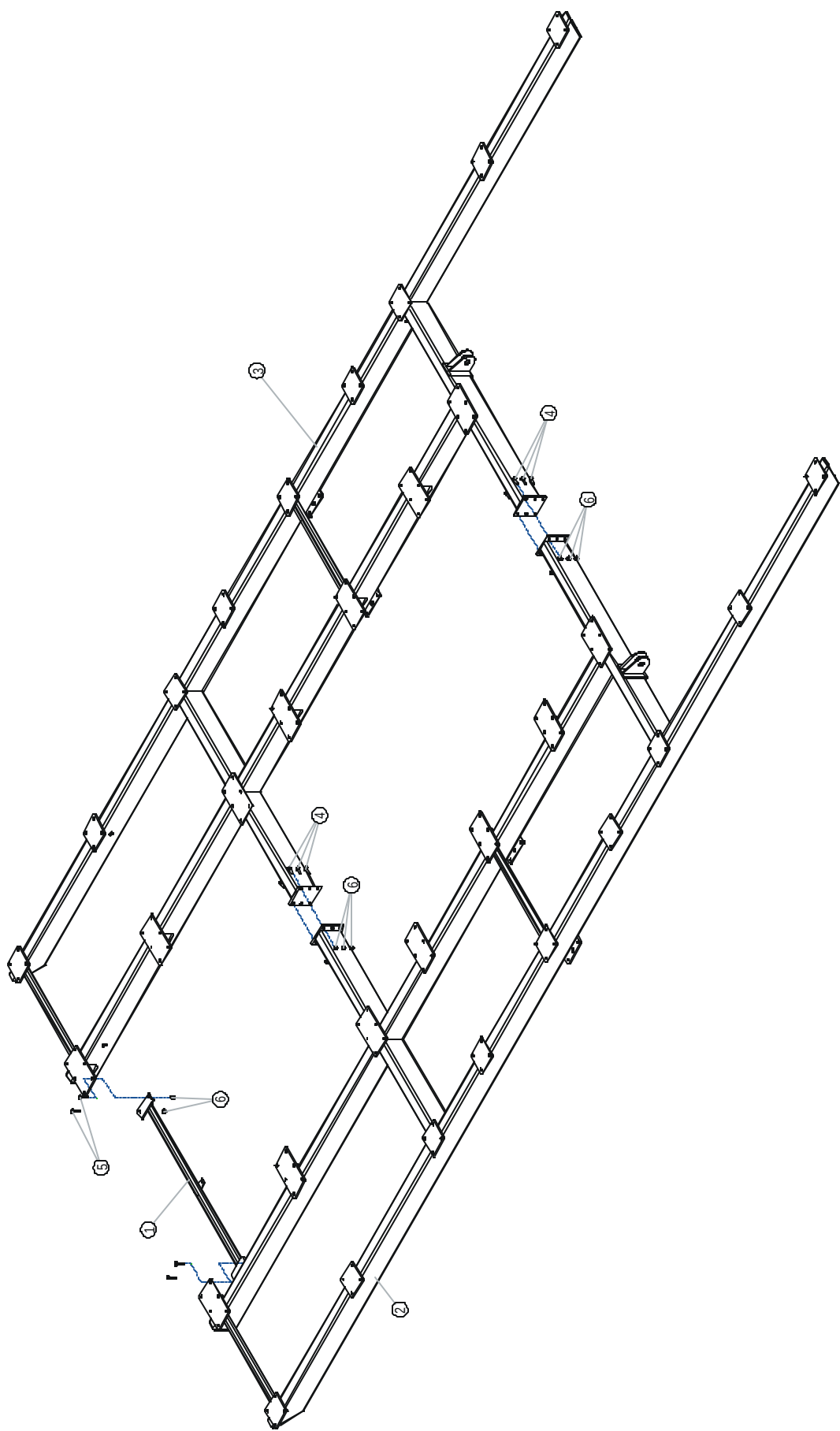
ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	40140	BRACKET,CYLINDER	2
2	40143	FRAME,MIDDLE	1
3	40486	TUBE,DECK,CYL	1
4	45235	FRAME,SUB,FRONT	1
5	E4740	PLT,S,BRACKET,SOLENOID,HYD	1
6	E4779	TUBE,DIVIDER,BALE	1
7	92061	BUMPER,RUBBER	2
8	31016	BOLT,HEX,1/2X1-1/2,UNC,GR5,ZP	40
9	31052	BOLT,HEX,5/8X2,UNC,GR5,ZP	12
10	31173	NUT,NYLOCK,1/2,UNC,ZP	44
11	31178	NUT,NYLOCK,5/8,UNC,ZP	12
12	31241	WASHER,FLAT,7/16,ZP	4





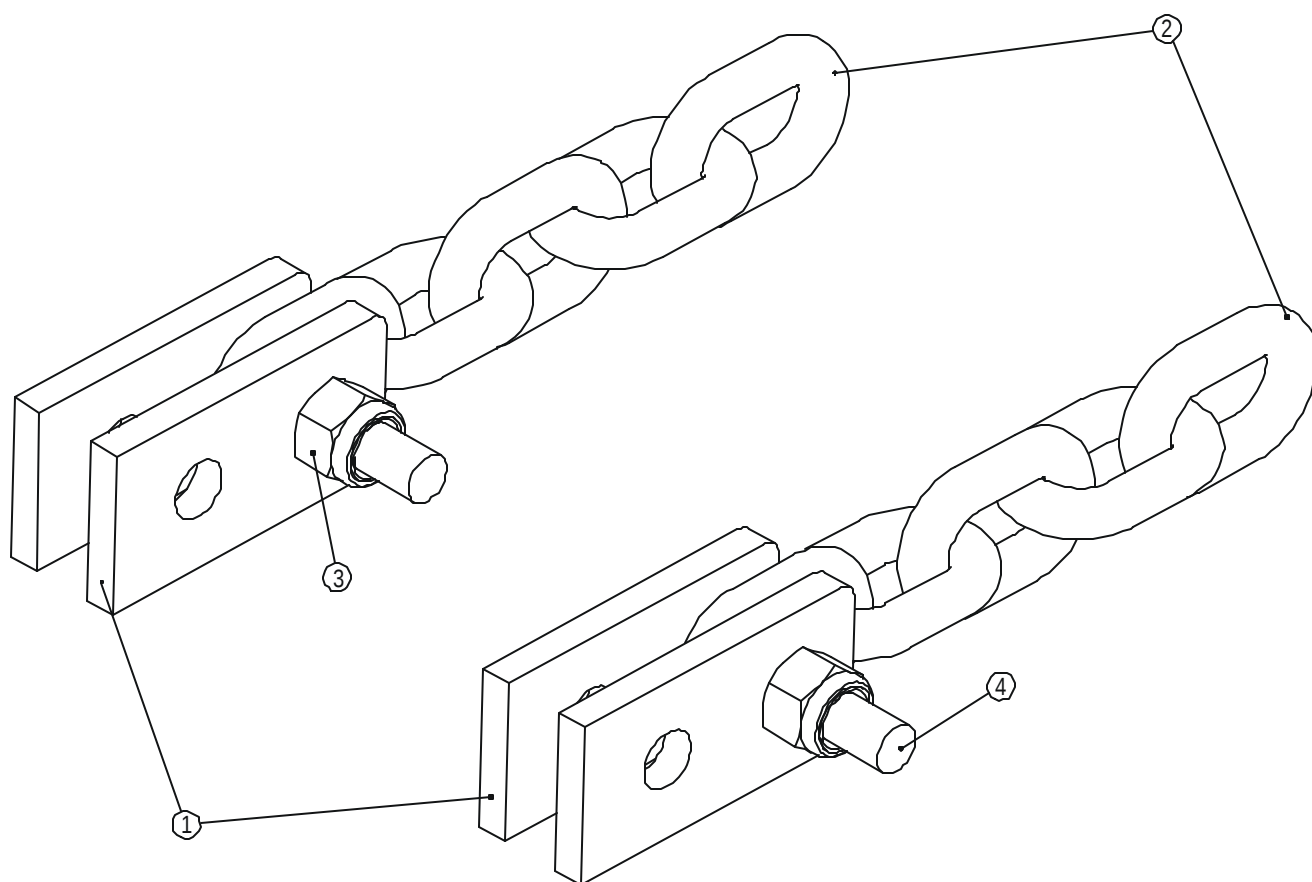
4.6 Frame Assembly (Part No. 42065)

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	40105	FRAME,SUB,SIGN,SMV	1
2	45245	FRAME,MAIN,RIGHT	1
3	45246	FRAME,MAIN,LEFT	1
4	31016	BOLT,HEX,1/2X1-1/2,UNC,GR5,ZP	12
5	31070	BOLT,HEX,1/2X2,UNC,GR5,ZP	4
6	31173	NUT,NYLOCK,1/2,UNC,ZP	16



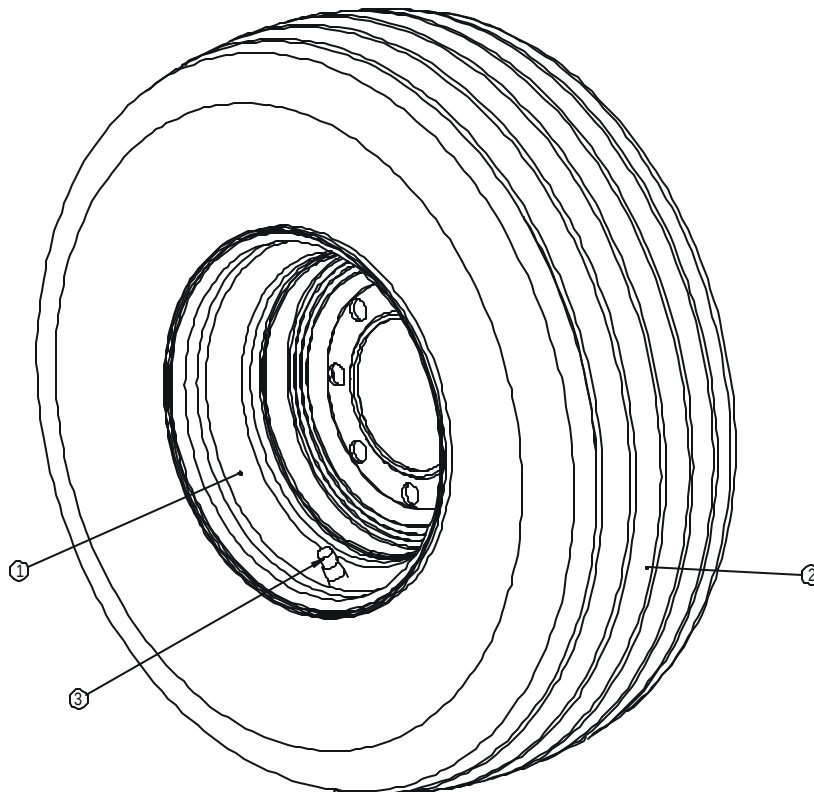
4.7 Fork Chain Assembly (Part No. 42079)

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	E5652	LUG, EXTENSION	4
2	E5653	CHAIN, LINK, 1/2, GR40, 5 LINKS	2
3	31178	NUT,NYLOCK,5/8,UNC,ZP	2
4	31336	BOLT,HEX,5/8X3,UNC,GR5,ZP	2



4.8 Wheel Complete Assembly (Part No. 31795)

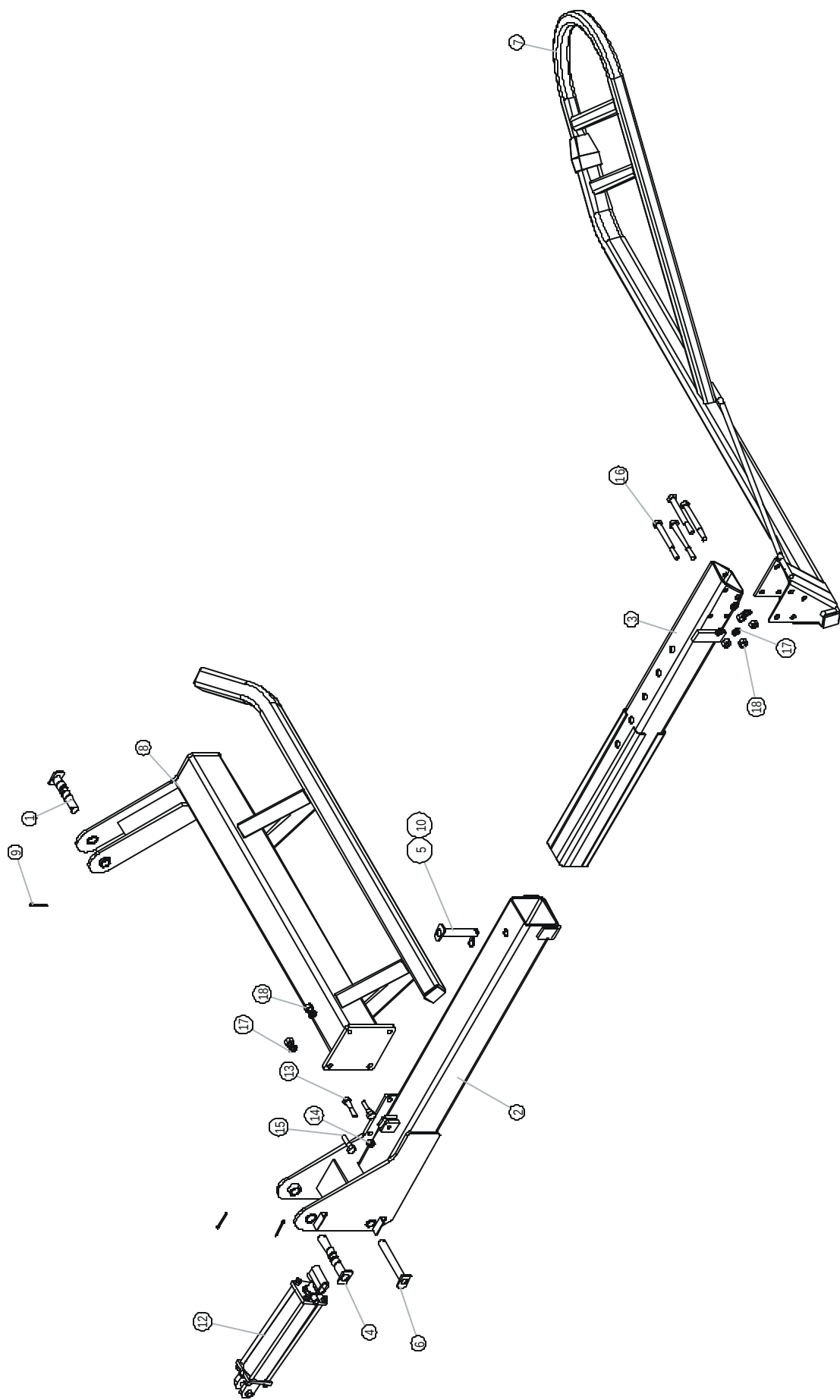
ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	30104	RIM,1.5X8,-1.5,8,OFFWHITE	1
2	30100	SUSP,TIRE,11LX15FI,12PLY	1
3	91048	SUSP,STEM,VALVE, TR801HP	1
4	33014	SUSP,TUBE,11L-15	1



4.9 Right Fork Lift Assembly (Part No. 42101)

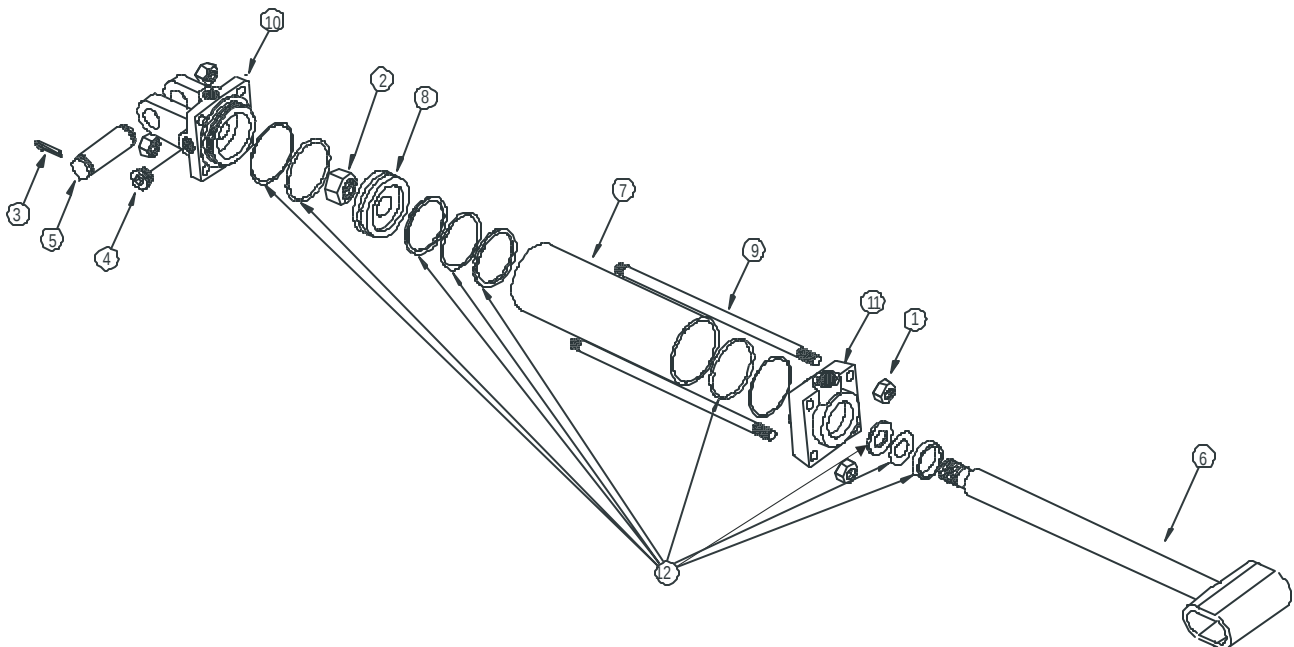
ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	40010	PIN,ARM,SIDE,PIVOT	1
2	42100	WLDT,ARM,INNER,RT	1
3	42102	WLDT,ARM,FORK,OUTERRT	1
4	42103	WLDT,PIN,FORK,PIVOT	1
5	42104	WLDT,PIN,FORK,ADJUSTMENT	1
6	42105	WLDT,PIN,LIFT	1
7	49460	WLDT,FORK,OUTER,RT	1
8	49461	WLDT,FORK,INNER,RT	1
9	31182	PIN,COTTER,1/4X2-1/2	3
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



4.9.1 3.5x13 Hydraulic Cylinder (Part No. 90120)

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	30663	NUT,HEX,5/8,UNC,GR5,Z P	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

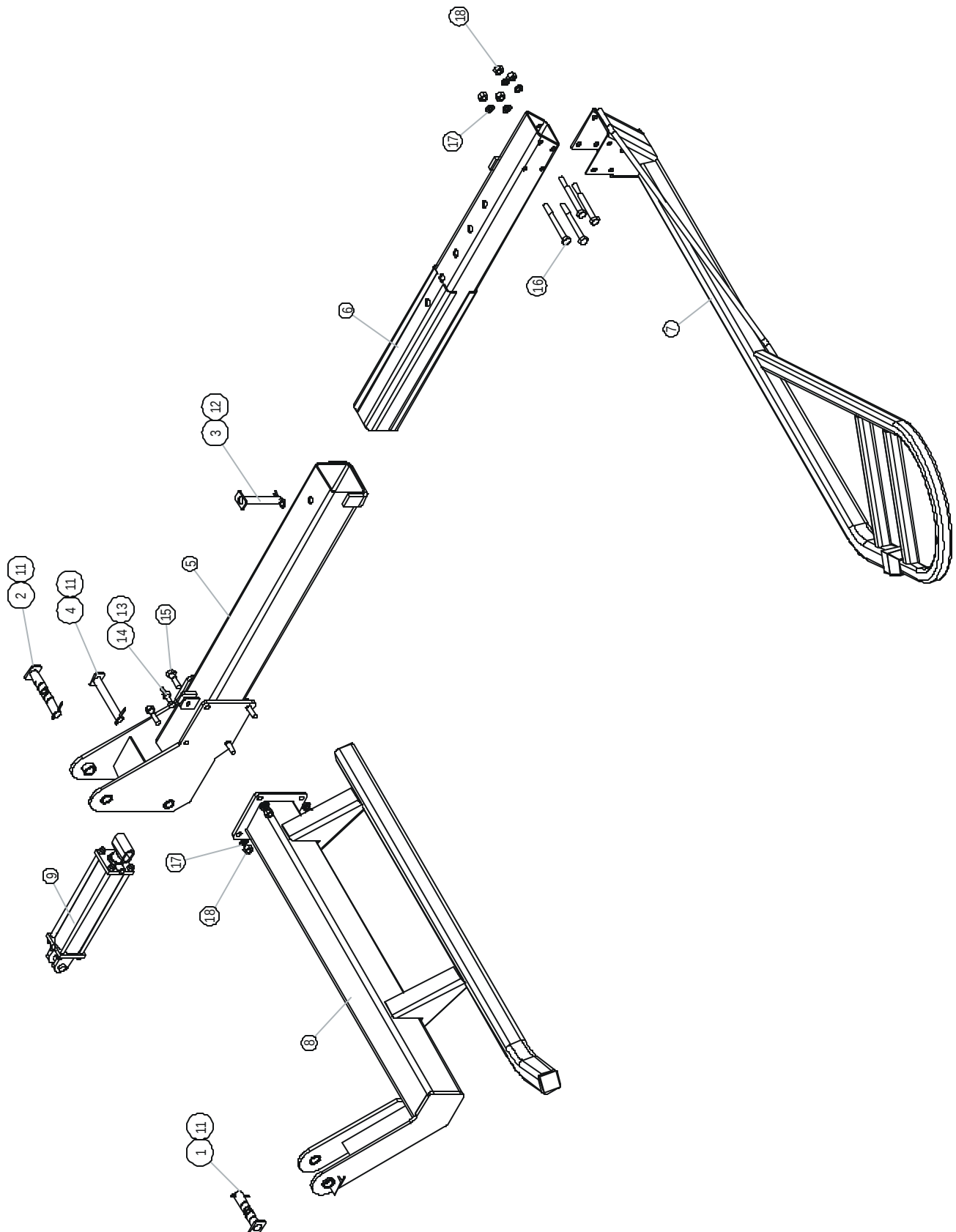


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4.10 Left Fork Lift Assembly (Part No. 42108)

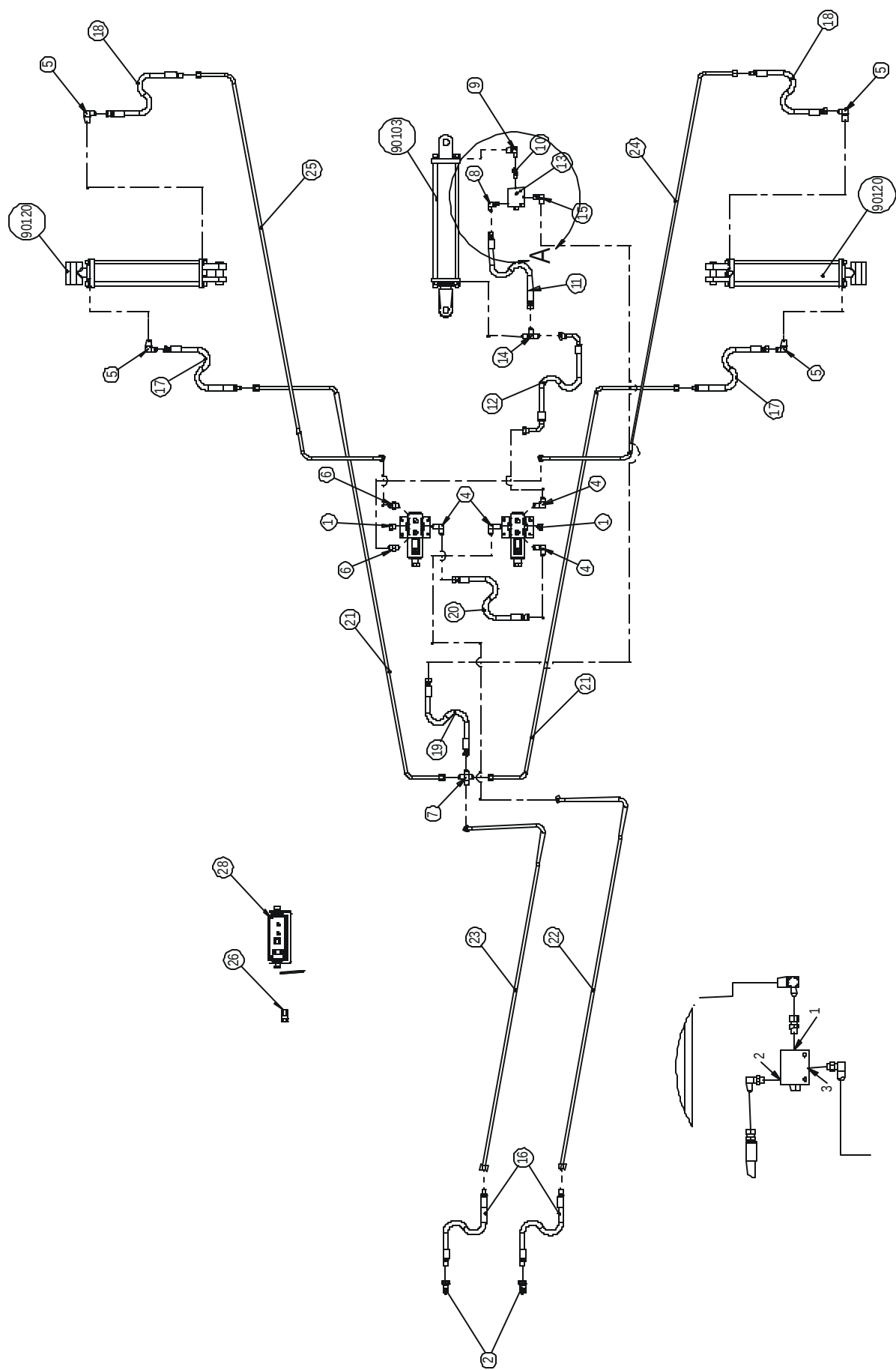
ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	40010	PIN,ARM,SIDE,PIVOT	1
2	42103	WLDT,PIN,FORK,PIVOT	1
3	42104	WLDT,PIN,FORK,ADJUSTMENT	1
4	42105	WLDT,PIN,LIFT	1
5	42106	WLDT,ARM,INNER,LT	1
6	42107	WLDT,ARM,FORK,OUTERLT	1
7	49462	WLDT,FORK,OUTER,LT	1
8	49463	WLDT,FORK,INNER,LT	1
9	90120	HYD,CYL,3.5X13,1.5NITRO,8FP	1
10	33316(1.5)	OIL,HYDRAULIC,UTF	1
11	31182	PIN,COTTER,1/4X2-1/2	3
12	31602	PIN, HAIR, #210	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

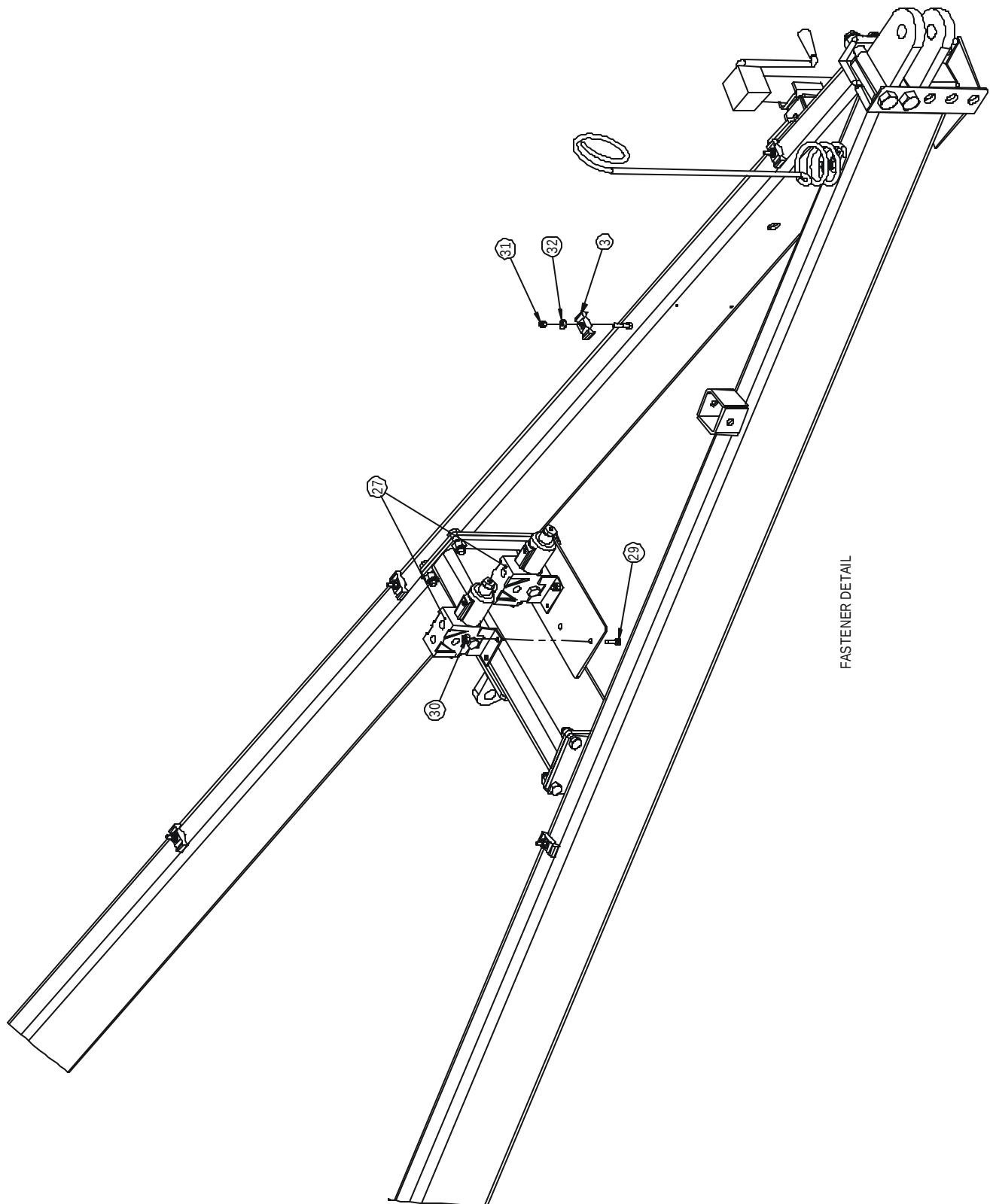
ITEM #10 NOT SHOWN



4.11 Hydraulic Cylinder Schematic (Part No. 42070)

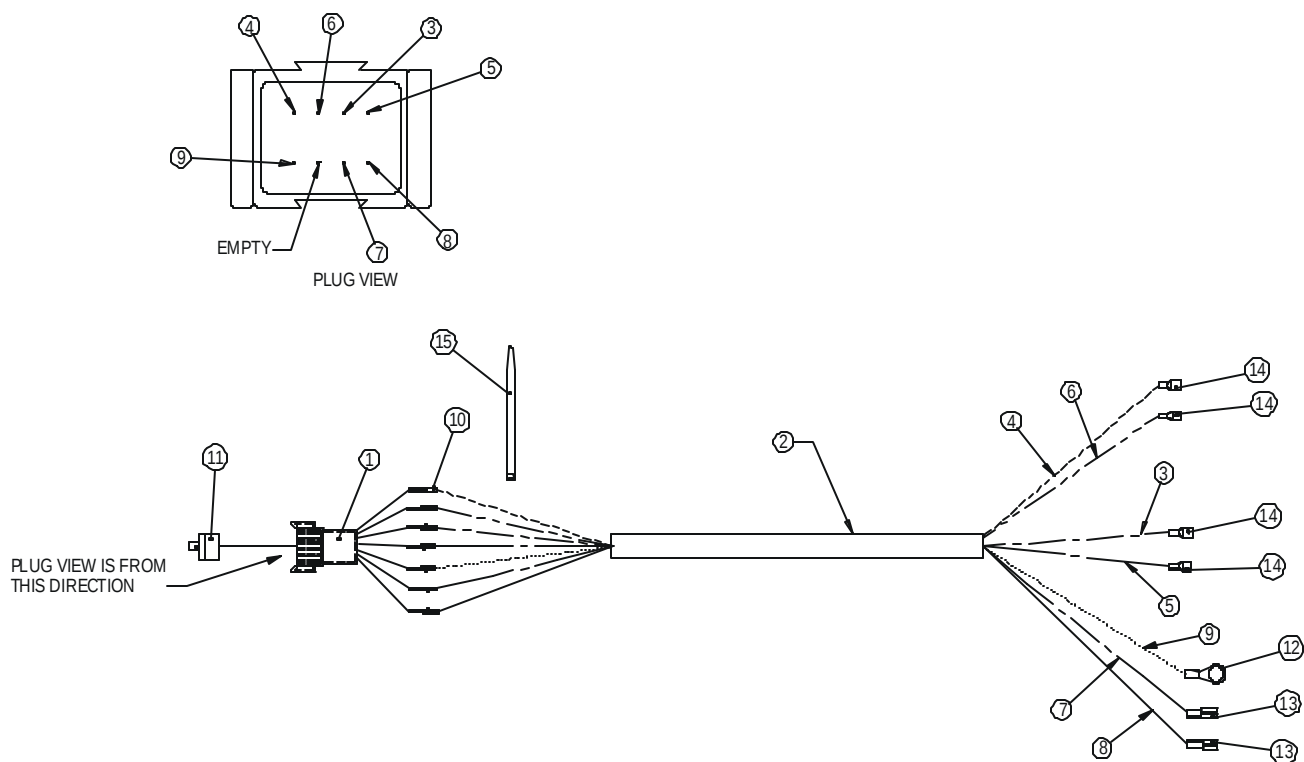
ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	30200	HYD,FIT,PLUG,8MB	2
2	30209	HYD,FIT,PIONEER,MALE,8FP	2
3	30210	HYD,CLAMP, HOSE,1/2	6
4	30211	HYD,FIT,ELBOW,8MB-8MJ90	4
5	30212	HYD,FIT,ELBOW,8MP-8MJ90	4
6	30215	HYD,FIT,ADAPTER,8MB-8MJ	2
7	30216	HYD,FIT,CROSS,8MJ	1
8	30390	HYD,FIT,ELBOW,6MB-6MJ90	1
9	30580	HYD,FIT,ELBOW,8MP-6MJ90	1
10	30581	HYD,FIT,ADAPTER,6FJX-6MB	1
11	30582	HYD,HOSE,3/8X14.5,8FJX-6FJX,1W	1
12	30583	HYD,HOSE,3/8X30,8FJ90TL,1W	1
13	30653	HYD,CHECK,PILOT,3X6MB	1
14	32035	HYD,FIT,TEE,8MP-8MJ-8MJ	1
15	32079	HYD,FIT,ELBOW,6MB-8MJ90	1
16	90223	HYD,HOSE,3/8X58,8MJ-8MP,1W	2
17	90243	HYD,HOSE,3/8X44,8FJX-8MJ,1W	2
18	90245	HYD,HOSE,3/8X28,8FJX-8MJ,1W	2
19	90271	HYD,HOSE,3/8X42,8FJX-8FJX,1W	1
20	90313	HYD,HOSE,3/8X18,8FJX-8FJX,1W	1
21	90421	HYD,LINE,STEEL,1/2X.049,8FJ	2
22	90422	HYD,LINE,STEEL,1/2X.049,8FJ	1
23	90423	HYD,LINE,STEEL,1/2X.049,8FJ	1
24	90424	HYD,LINE,STEEL,1/2X.049,8FJ	1
25	90425	HYD,LINE,STEEL,1/2X.049,8FJ	1
26	92077	ELEC_HARNESS,CONTROL,14BM	1
27	92089	HYD,VALVE,SOLENOID	2
28	92125	ELEC_BOX,CONTROL,14BM	1
29	31043	BOLT,HEX,3/8X1,UNC,GR5,ZP	4
30	31176	NUT,NYLOCK,3/8,UNC,ZP	4
31	31177	NUT,NYLOCK,5/16,UNC,ZP	6
32	31239	WASHER,FLAT,5/16,ZP	6





4.11.1 Control Harness (Part No. 92077)

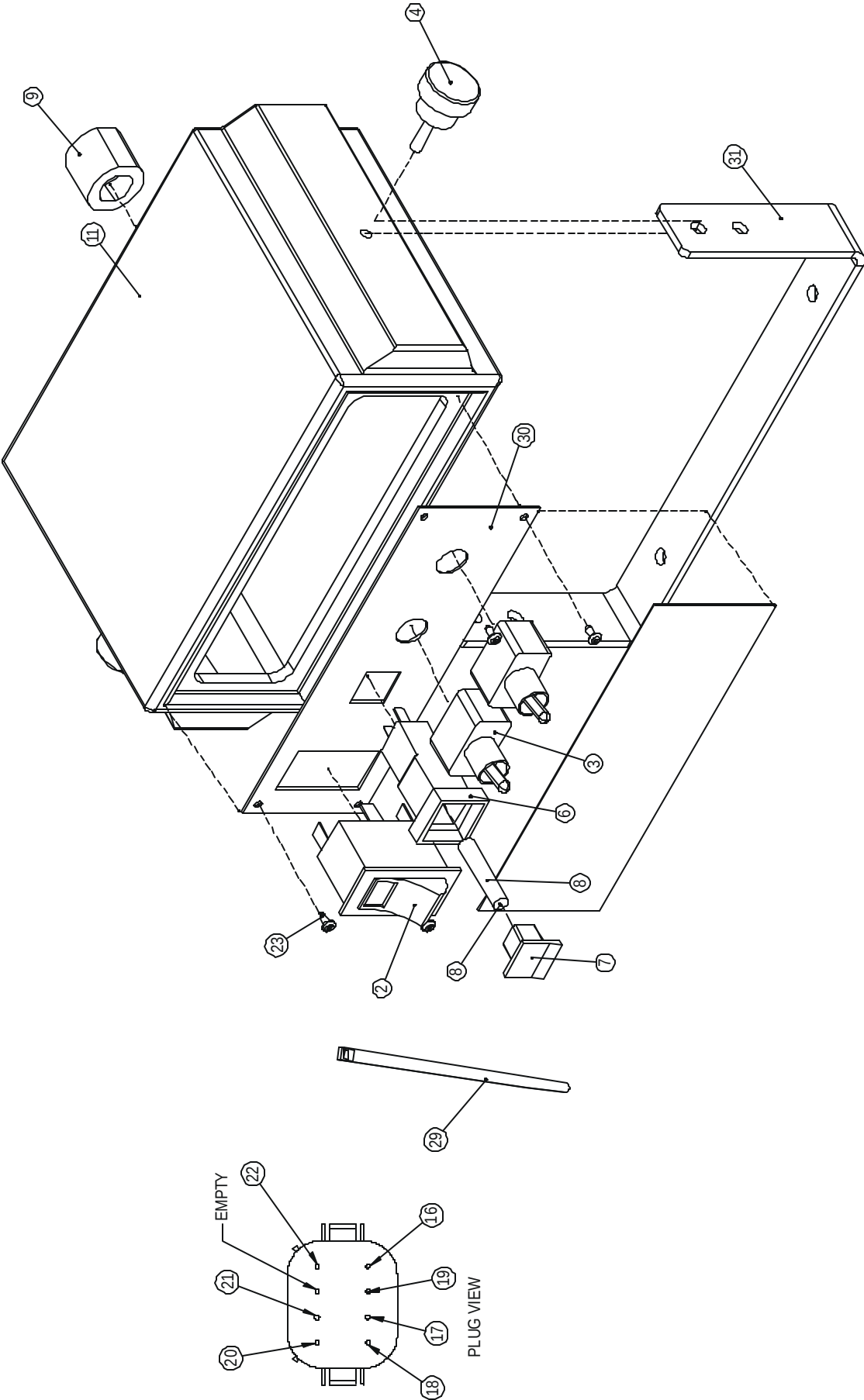
ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	92104	ELEC CONNECTOR,M,7-PIN	1
2	92143	ELEC,LOOM,1/2,SPLIT,CORRIGATED	1
3	92149	ELEC,WIRE,16GA,STRAND,BLACK	1
4	92150	ELEC,WIRE,16GA,STRAND,WHITE	1
5	92151	ELEC,WIRE,16GA,STRAND,RED	1
6	92152	ELEC,WIRE,16GA,STRAND,ORANGE	1
7	92153	ELEC,WIRE,16GA,STRAND,GREEN	1
8	92154	ELEC,WIRE,16GA,STRAND,YELLOW	1
9	92155	ELEC,WIRE,16GA,STRAND,BROWN	1
10	92157	ELEC CONNECTOR,M,PIN	7
11	92161	ELEC CONNECTOR,M,WEDGE	1
12	92166	ELEC CONNECTOR,RING,3/8,16-14,ST,INS	1
13	92169	ELEC CONNECTOR,QD,250F,16-14,ST,INS	2
14	92167	ELEC,CONN,QD,250F,16-14,ST,FUL	4
15	92170	TIE,CABLE,4",BLACK	6

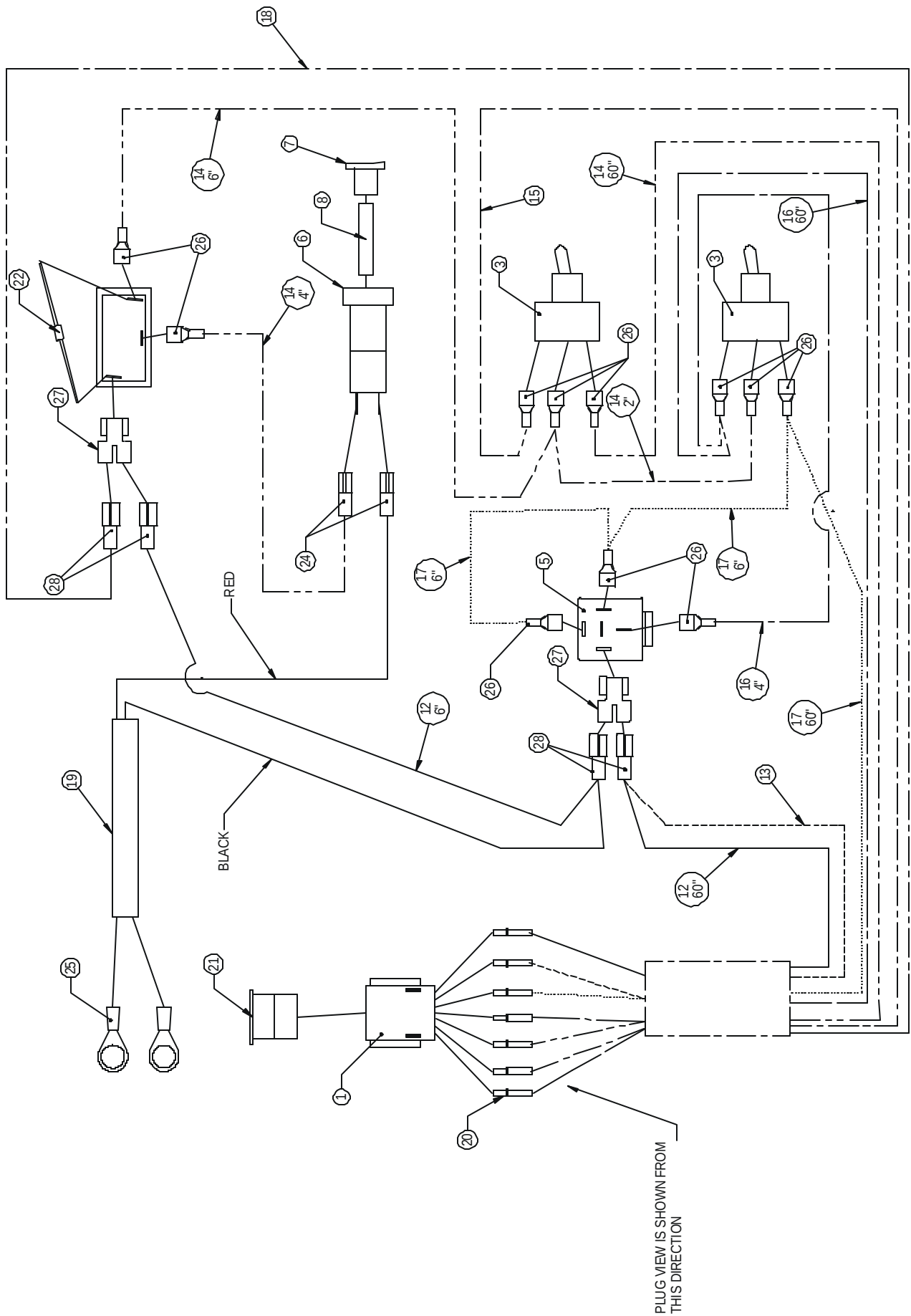


4.11.2 Electric Control Box (Part No. 92125)

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	92106	ELEC CONNECTOR,F,7PIN	1
2	92107	ELEC SWITCH,ROCKER,3,NO	1
3	92108	ELEC SWITCH,TOGGLE,3,NC	2
4	92119	SCREW,THUMB,10X3/4,UNC	2
5	92130	ELEC RELAY, 12V, 30A	1
6	92138	ELEC HOLDER,BUS,BODY	1
7	92139	ELEC HOLDER,BUS,CAP	1
8	92140	ELEC FUSE,BUS,12V20A,FAST	1
9	92141	RELIEF BUSHING,1260	1
10	92143	ELEC,LOOM,1/2,SPLIT,CORRIGATED	1
11	92146	PLASTIC,ENCLOSURE	1
12	92149	ELEC,WIRE,16GA,STRAND,BLACK	1
13	92150	ELEC,WIRE,16GA,STRAND,WHITE	1
14	92151	ELEC,WIRE,16GA,STRAND,RED	1
15	92152	ELEC,WIRE,16GA,STRAND,ORANGE	1
16	92153	ELEC,WIRE,16GA,STRAND,GREEN	1
17	92154	ELEC,WIRE,16GA,STRAND,YELLOW	1
18	92155	ELEC,WIRE,16GA,STRAND,BROWN	1
19	92156	ELEC,WIRE,2C-16GA,STRAND,RED/BLACK	1
20	92158	ELEC CONNECTOR,F,SOCKET	7
21	92162	ELEC CONNECTOR,F,WEDGE	1
22	92163	ELEC DIODE,12V, 20A	1
23	92164	SCREW,TAP,#4X1/4,ZP	4
24	92165	ELEC CONNECTOR,QD,188F,16-14,ST,INS	2
25	92166	ELEC CONNECTOR,RING,3/8,16-14,ST,INS	2
26	92167	ELEC,CONN,QD,250F,16-14,ST,FUL	11
27	92168	ELEC CONNECTOR,ADP,1/4,F/M/M,ST,NON	2
28	92169	ELEC CONNECTOR,QD,250F,16-14,ST,INS	4
29	92170	TIE,CABLE,4",BLACK	5
30	92220	FACEPLAT E,CONTROLBOX,14	1
31	E4751	PLT,S,BRACKET,BOX,CONTROL	1
32	E5805	DECAL,CONTROLBOX,FACEPLT,14BM	1

NOTE: 90138 IS A SEPARATE ASSEMBLY
OF THE WIRING HARNESS ONLY.

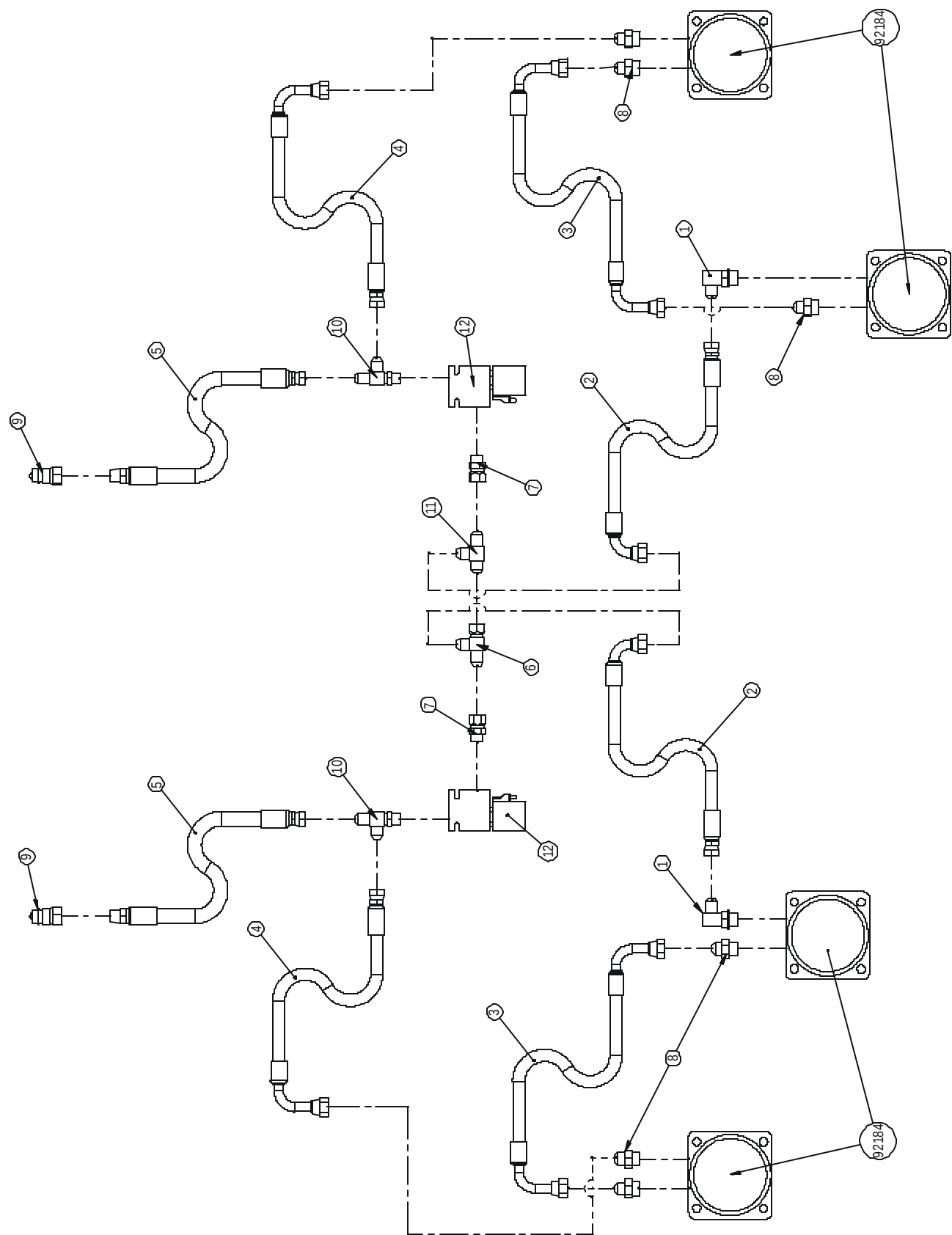


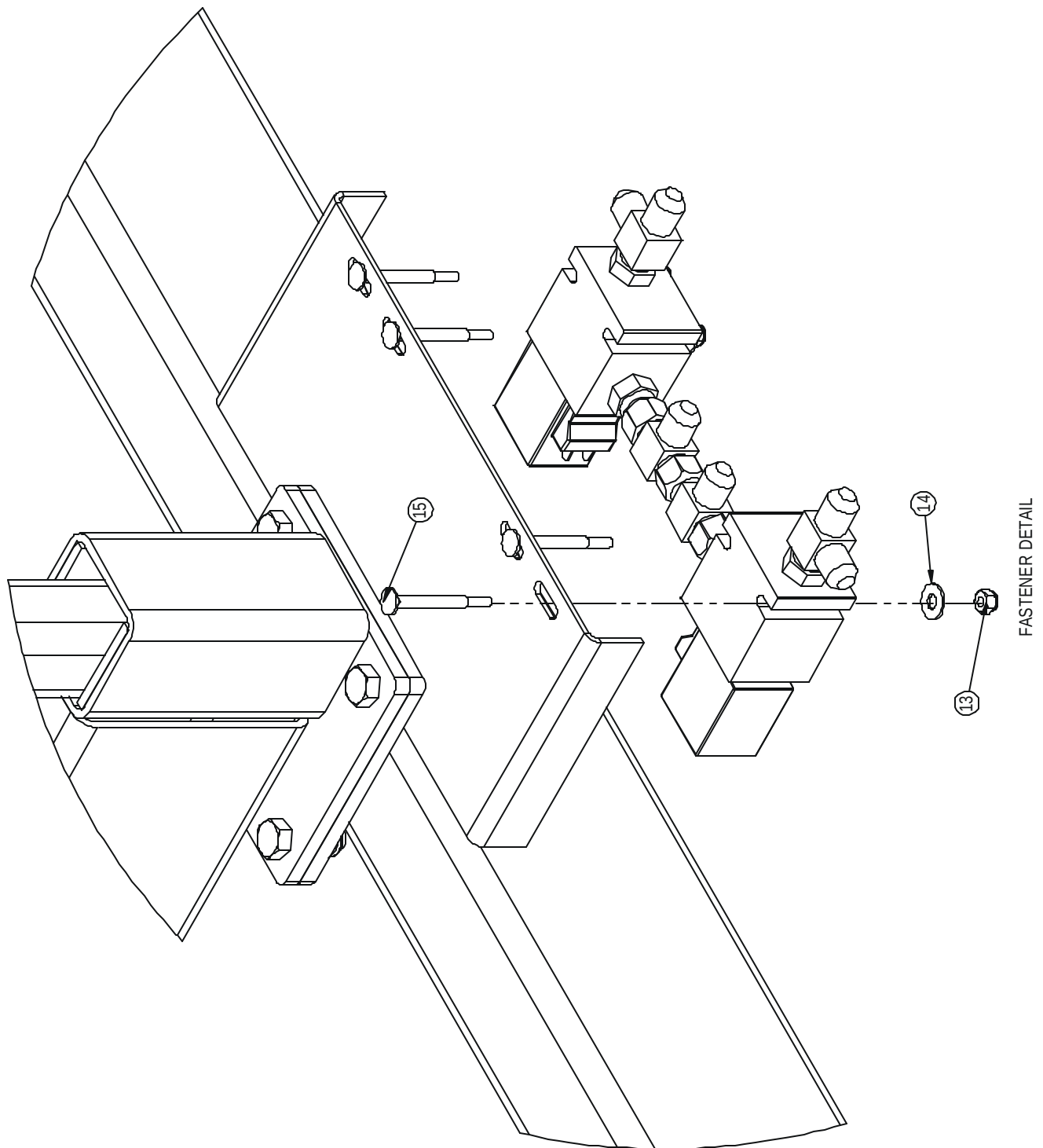


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4.12 Hydraulic Motor Schematic (Part No. 42071)

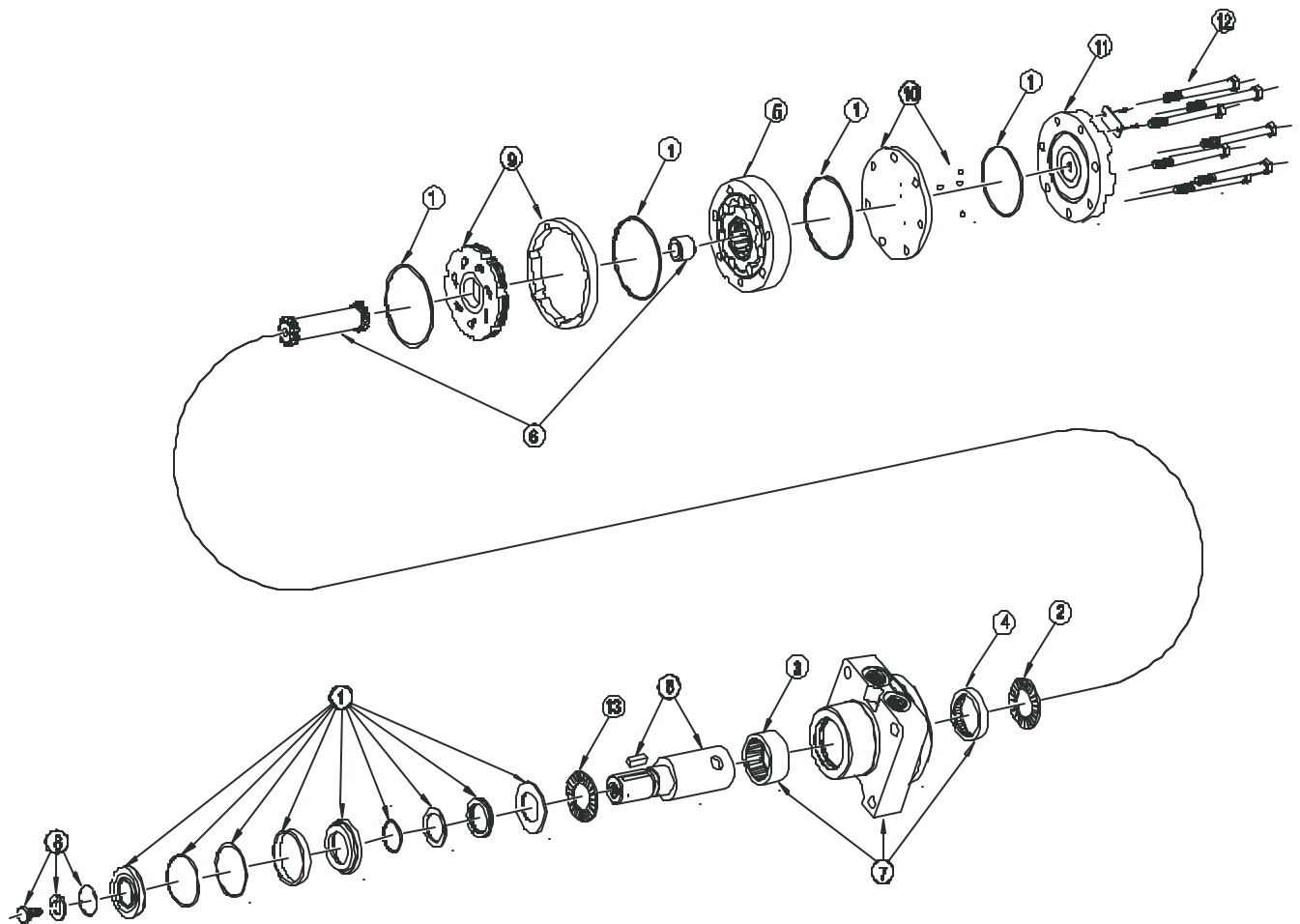
ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	30145	HYD, FIT, ELBOW, 10MB-8MJ90	2
2	30146	HYD,HOSE1/2X33,8FJX-8FJ90T,1W	2
3	30147	HYD,HOSE,1/2X52,8FJ90TL,1W	2
4	30148	HYD,HOSE1/2X72,8FJX-8FJ90T,1W	2
5	30149	HYD,HOSE,1/2X108,8FJX-8MP,1W	2
6	30150	HYD,FIT,TEE,8FJX-8MJ-8MJ	1
7	30152	HYD,FIT,ADAPTER,8MB-8FJX	2
8	30204	HYD,FIT,ADAPTER,10MB-8MJ	6
9	30209	HYD,FIT,PIONEER,MALE,8FP	2
10	30214	HYD,FIT,TEE,8MB-8MJ-8MJ	2
11	30313	HYD,FIT,TEE,8MJ-8MJ-8MJ	1
12	92070	HYD,VALVE,SV4-10-C-8T-12DQ	2
13	31174	NUT,NYLOCK,1/4,UNC,ZP	4
14	31237	WASHER,FLAT,1/4,ZP	4
15	31580	BOLT,CARR,1/4X2-1/2,UNC,GR5,ZP	4





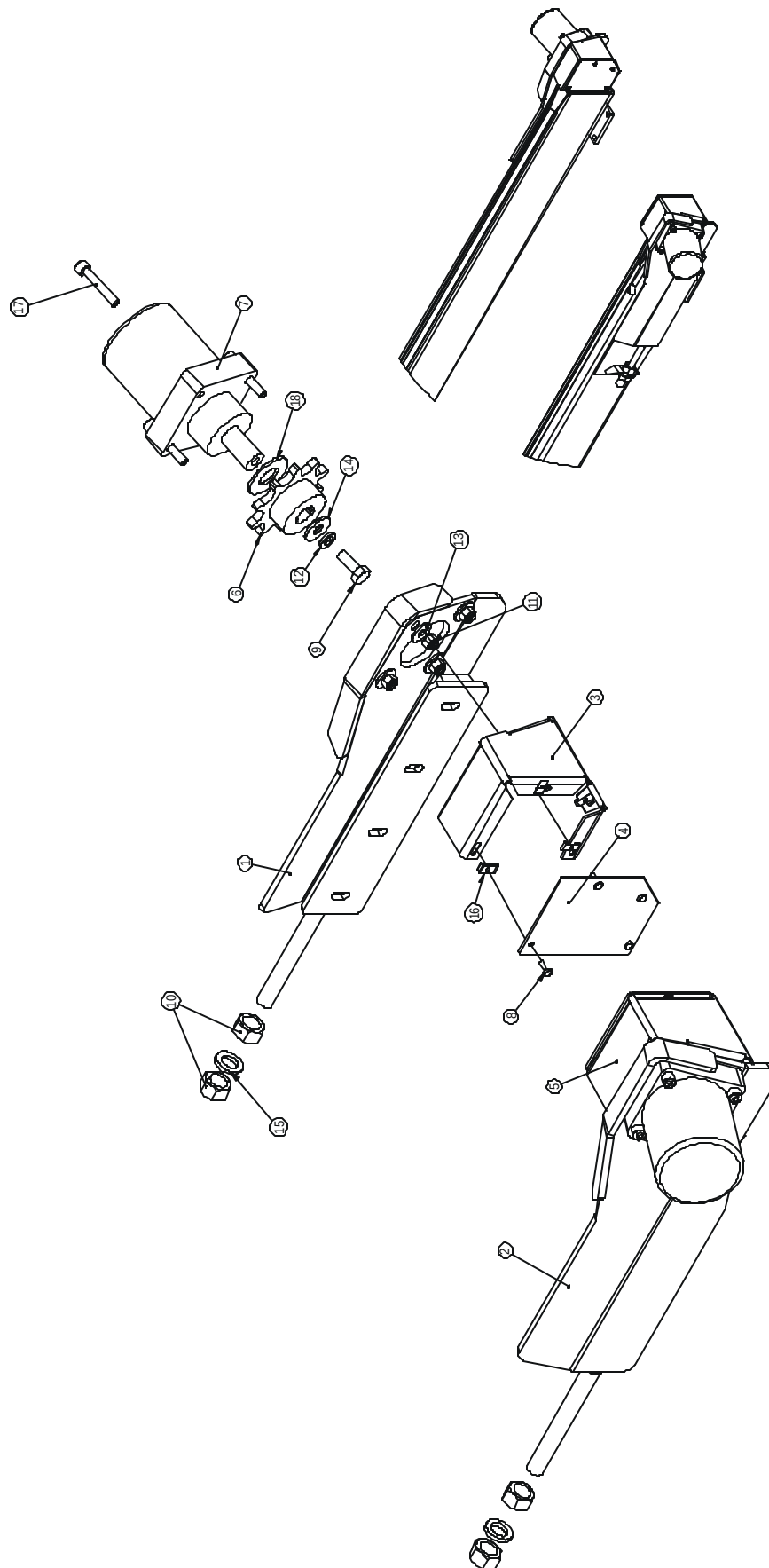
4.12.1 45 Cubic Inch Hydraulic Motor (Part No. 92184)

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



4.13 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,GR5	8
18	32071	WASHER,FLAT,1-1/4	2



5.0 Options

5.1 Indicator Option (Part No. BMO14BI-2 (89033))

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	49453	ASSY,INDICATOR,REAR	2
2	49455	ASSY,INDICATOR,FRONT	2
3	E6328	REFLECTIVE,TAPE,SELECTOR	2
4	33207(4.5)	ROPE,WIRE,5/32",STRAND	2
5	33207(35)	ROPE,WIRE,5/32",STRAND	2
6	33208	SLEEVE,STOP,CABLE,5/32"	4
7	30294	SCREW,TEK,1/4X1	18
8	31649	ELEC,CLAMP,CABLE,1/2	18
9	92014	CLAMP,CABLE,1/4	6
10	30295(.9)	PAINT,ORANGE	1
11	30296(.05)	PAINT,CATALYST	1

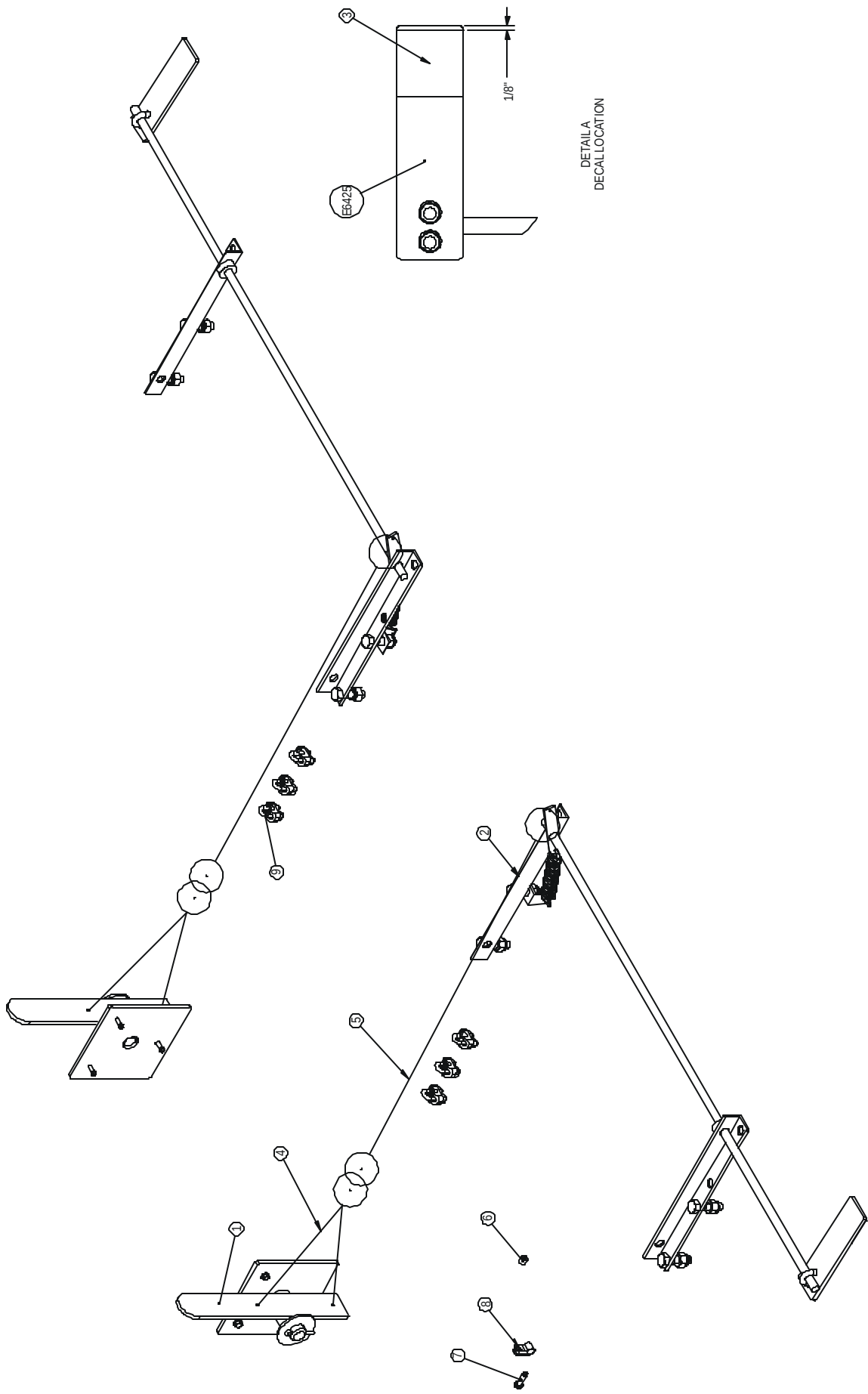
WIRE ROPE DIMENSIONS IN () ARE IN FEET
 PAINT & CATALYST DIMENSIONS IN () ARE IN LITERS

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 4FT 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 THE MACHINE.

3.RUN SHORT CABLE THROUGH HOLES IN PADDLE PLATE AND ATTACH CABLE STOPS. MAKE 1" LOOP @ CENTER OF CABLE W/ 1/4" CLAMP.

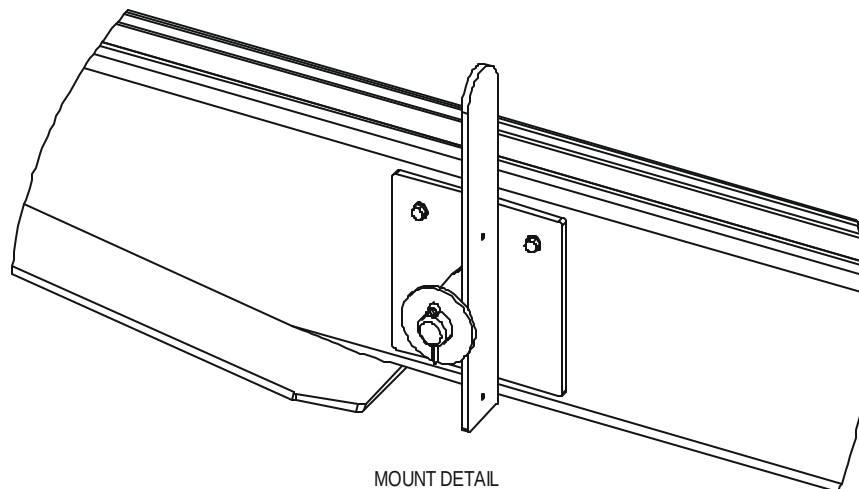
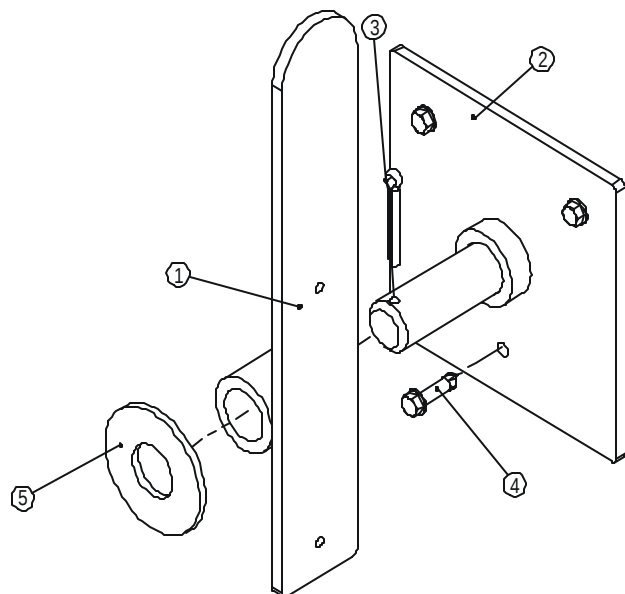
4.REMOVE AS MUCH SLACK AS POSSIBLE IN LONG CABLE AND MAKE 1" LOOP W/ 1/4" CLAMP THROUGH LOOP IN SHORT CABLE. SPRING SHOULD BE SLIGHTLY PRETENSIONED. TRIM EXCESS CABLE.



5.1.1 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 PLAT E SHOULD BE DIRECTLY
 ABOVE LEADING EDGE OF SKIDPAD. BOTTOM EDGE
 OF PLATE SHOULD BE 1" FROM BOTTOM OF RAIL.
 ATTACH WITH SCREWS PROVIDED



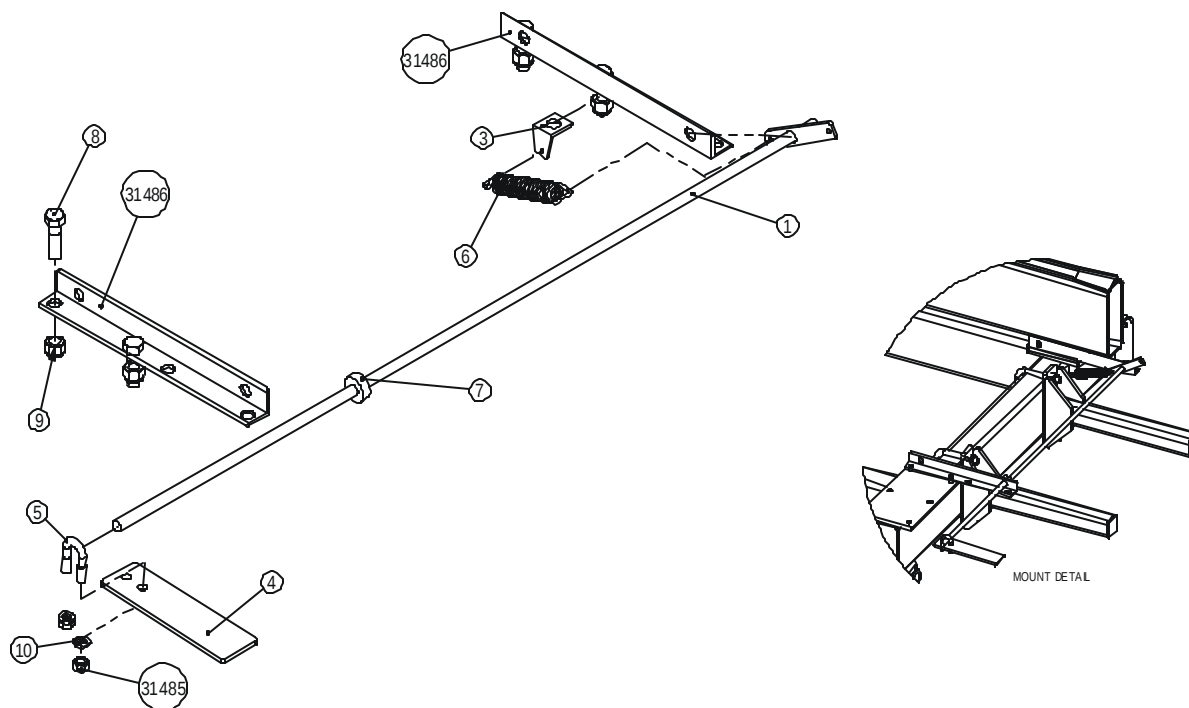
5.1.2 Front Indicator Assembly (Part No. 49455)

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)

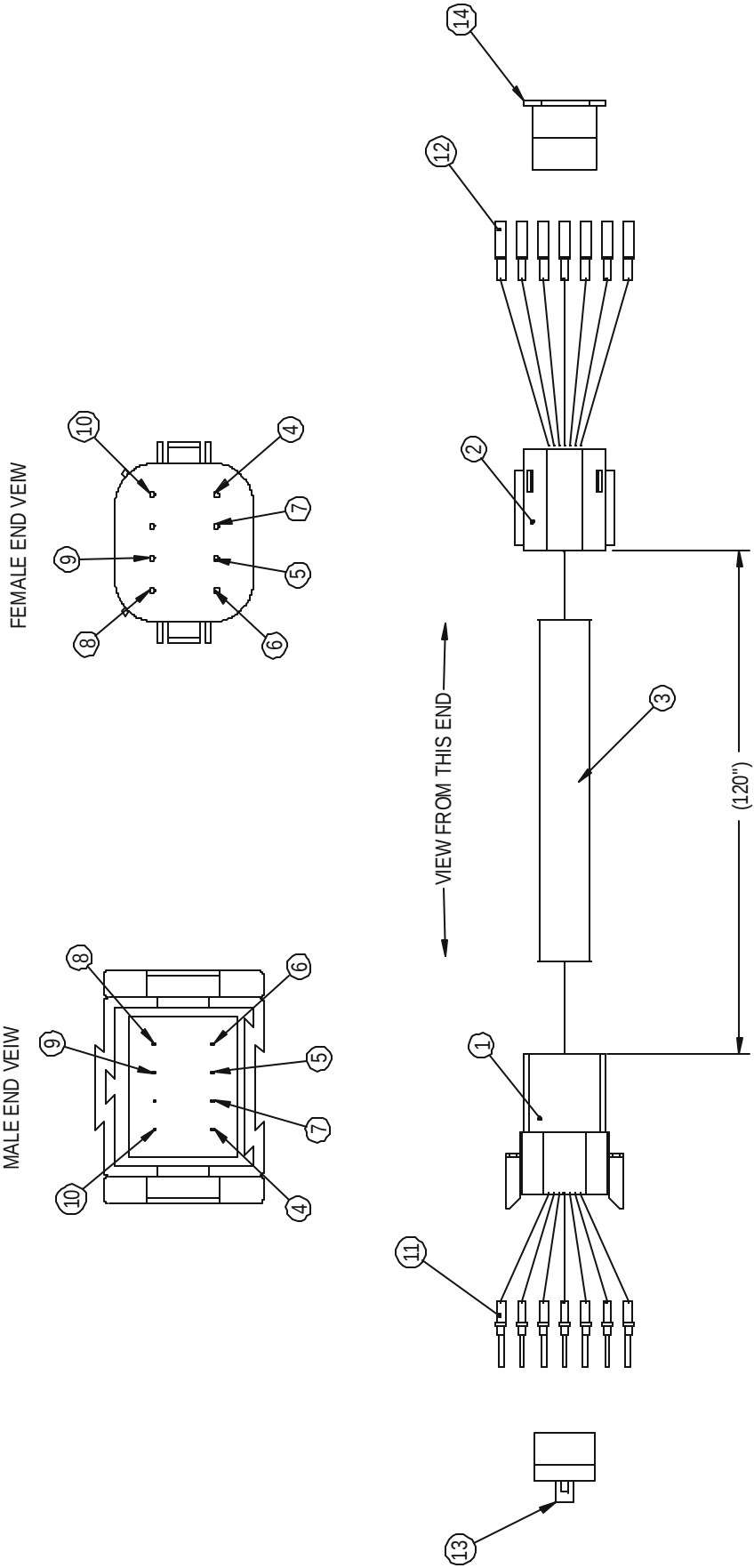
ATTACH E6425 AND POSITION SO THAT FLAG IS FACING OPERATOR
WHEN ROTATED



5.2 Harness Extension Option (Part No. 89030)

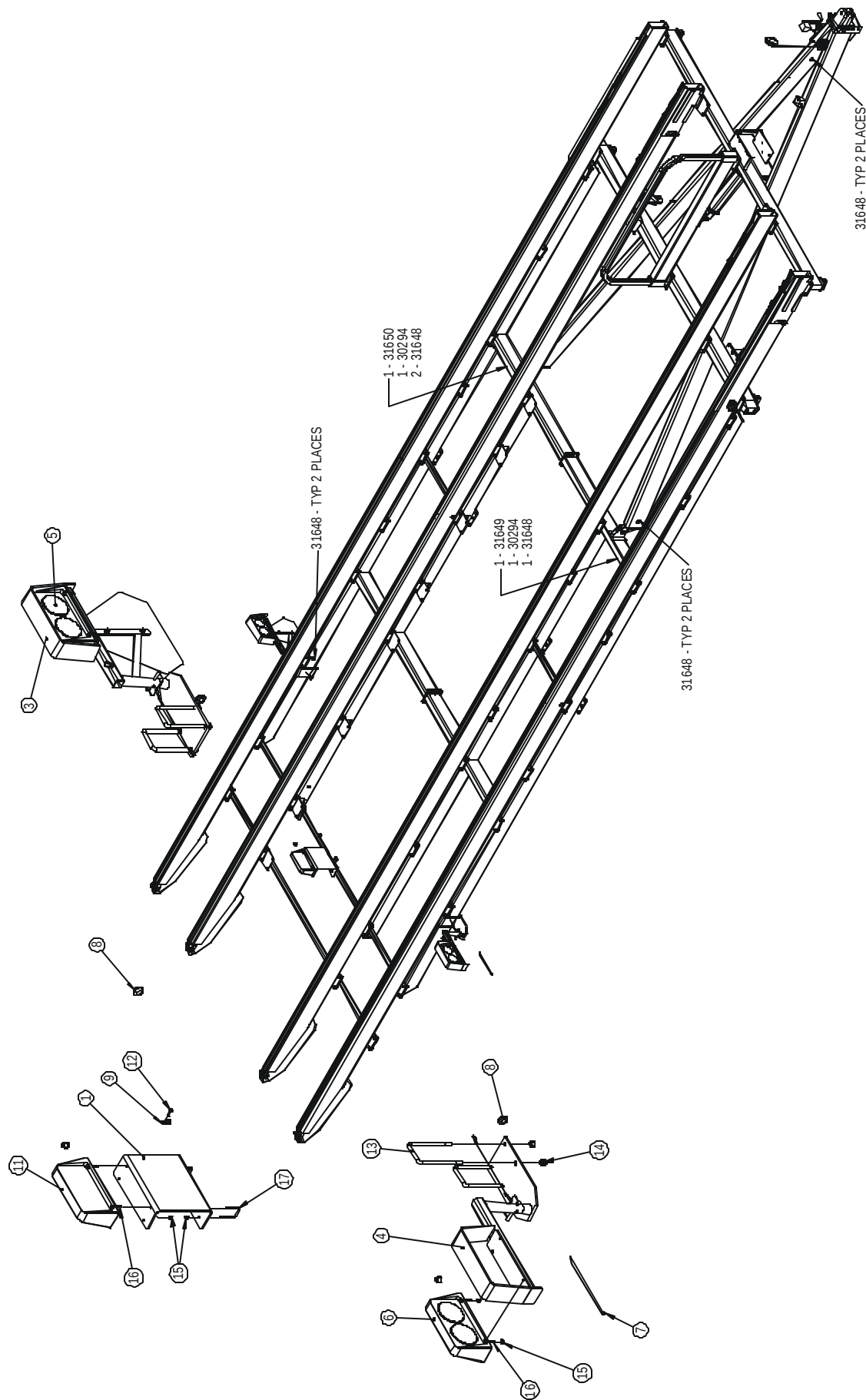
ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	92104	ELEC_CONNECTOR,M,7-PIN	1
2	92106	ELEC_CONNECTOR,F,7PIN	1
3	92143(10)	ELEC,LOOM,1/2,SPLIT,CORRIGATED	1
4	92149(10)	ELEC,WIRE,16GA,STRAND,BLACK	1
5	92150(10)	ELEC,WIRE,16GA,STRAND,WHITE	1
6	92151(10)	ELEC,WIRE,16GA,STRAND,RED	1
7	92152(10)	ELEC,WIRE,16GA,STRAND,ORANGE	1
8	92153(10)	ELEC,WIRE,16GA,STRAND,GREEN	1
9	92154(10)	ELEC,WIRE,16GA,STRAND,YELLOW	1
10	92155(10)	ELEC,WIRE,16GA,STRAND,BROWN	1
11	92157	ELEC_CONNECTOR,M,PIN	7
12	92158	ELEC_CONNECTOR,F,SOCKET	7
13	92161	ELEC_CONNECTOR,M,WEDGE	1
14	92162	ELEC_CONNECTOR,F,WEDGE	1

DIMENSIONS IN () ARE IN FEET



5.3 Clearance Light Option (Part No. BMO14CL-2 (89032))

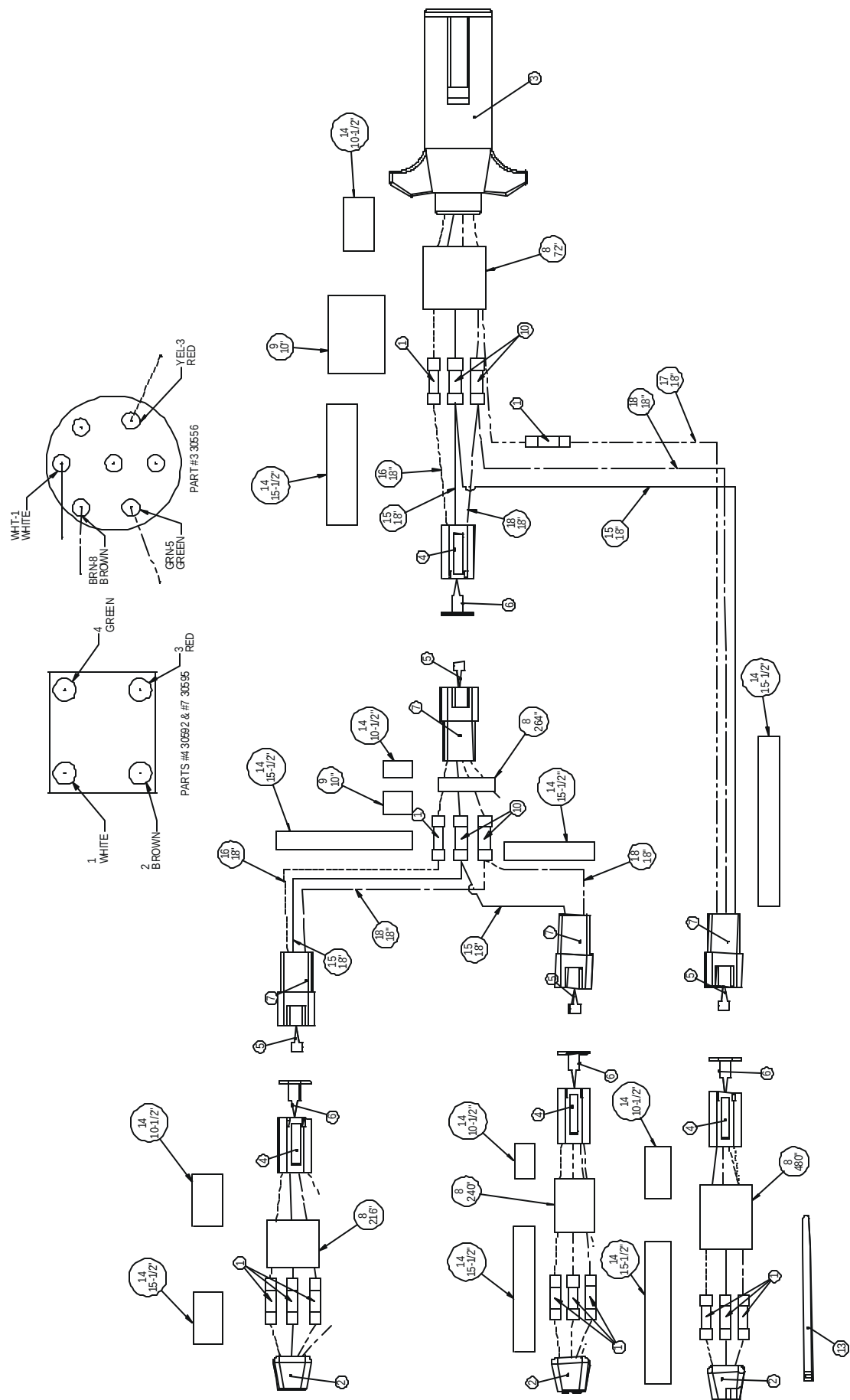
ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	E4814	PLT,S,BRACKET,LIGHT,MIDDLE	1
2	40168	ELEC_HARNESS,LIGHTS,14BM	1
3	45282	ASSY, MOUNT,LIGHT,BM,LT	1
4	45283	ASSY, MOUNT,LIGHT,BM,RT	1
5	30526	ELEC,LIGHT,RED&AMBER,LEFT	1
6	30527	ELEC,LIGHT,RED&AMBER,RIGHT	1
7	31613	TIE,CABLE,NYLON,BLACK,11 1/2"	10
8	31648	GROM,RUBBER,1-3/8,3/4,1-1/16	10
9	31649	ELEC,CLAMP,CABLE,1/2	2
10	31650	ELEC,CLAMP,CABLE,3/4	1
11	31664	ELEC_LIGHT,DUAL,RED	1
12	30294	SCREW,TEK,1/4X1	3
13	31061	BOLT,U,SQ,1/2-13,3X7,1-1/4THREAD	4
14	31173	NUT,NYLOCK,1/2,UNC,ZP	8
15	31174	NUT,NYLOCK,1/4,UNC,ZP	16
16	31535	BOLT,HEX,1/4X1-1/2,UNC,GR5,ZP	12
17	31663	BOLT,U,SQ,1/4-20,1-1/2x2-1/4,1	2



5.3.1 Light Harness (Part No. 40168)

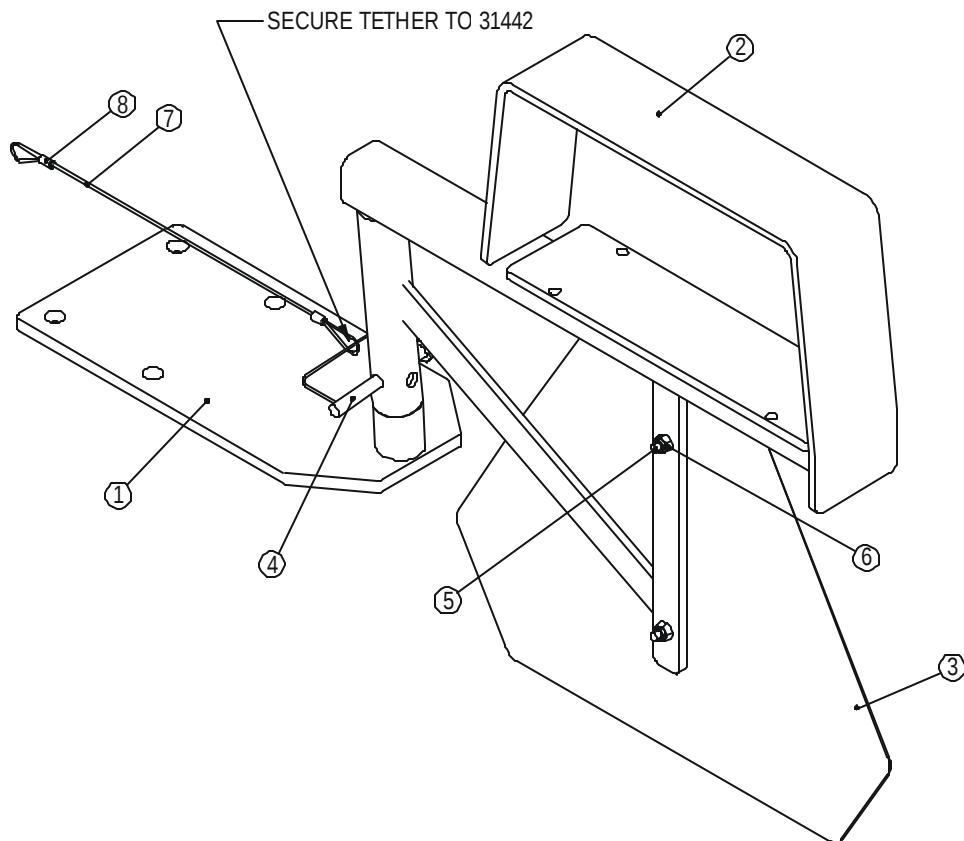
ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	30408	ELEC,CONN,BUTT,16-14	12
2	30555	ELEC,CONNECTOR,LIGHT,FEMALE	3
3	30556	ELEC,CONN,7 WIRE,FEMALE	1
4	30592	ELEC_CONNECTOR,M,4-PIN	4
5	30593	ELEC_CONNECTOR,WEDGE,F,4-PIN	4
6	30594	ELEC_CONNECTOR,WEDGE,M,4-PIN	4
7	30595	ELEC_CONNECTOR,F,4-PIN	4
8	31614(106)	ELEC,CABLE,4-14,ULTRA-FLEX	1
9	31615(1.67)	ELEC,LOOM,3/4,SPLIT,CORRIGATED	1
10	31673	ELEC,CONN,BUTT,10-12	4
11	92157	ELEC_CONNECTOR,M,PIN	16
12	92158	ELEC_CONNECTOR,F,SOCKET	16
13	92170	TIE,CABLE,4",BLACK	49
14	92143(16.04)	ELEC,LOOM,1/2,SPLIT,CORRIGATED	1
15	92150(6)	ELEC,WIRE,16GA,STRAND,WHITE	1
16	92151(3)	ELEC,WIRE,16GA,STRAND,RED	1
17	92153(1.5)	ELEC,WIRE,16GA,STRAND,GREEN	1
18	92155(6)	ELEC,WIRE,16GA,STRAND,BROWN	1

NOTE: ALL () LENGTHS
ARE IN FEET.



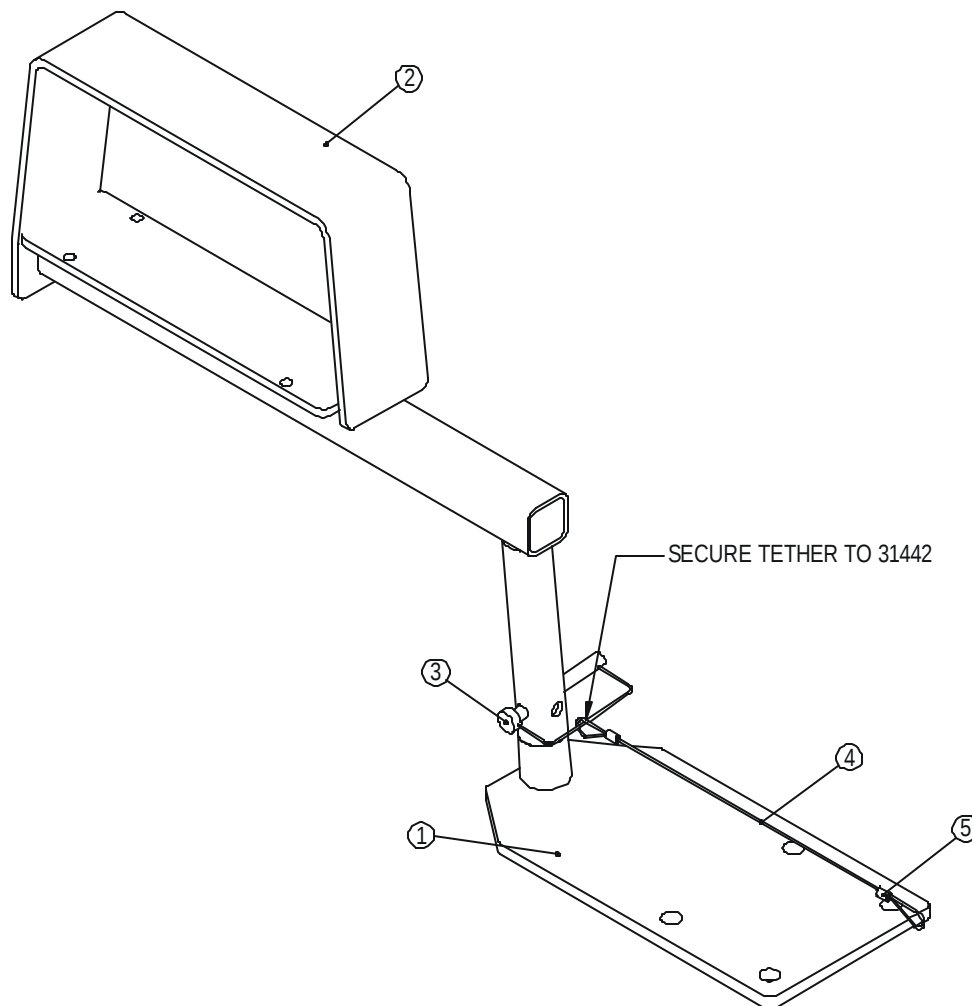
5.3.2 Left Light Mount Assembly (Part No. 45282)

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



5.3.3 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

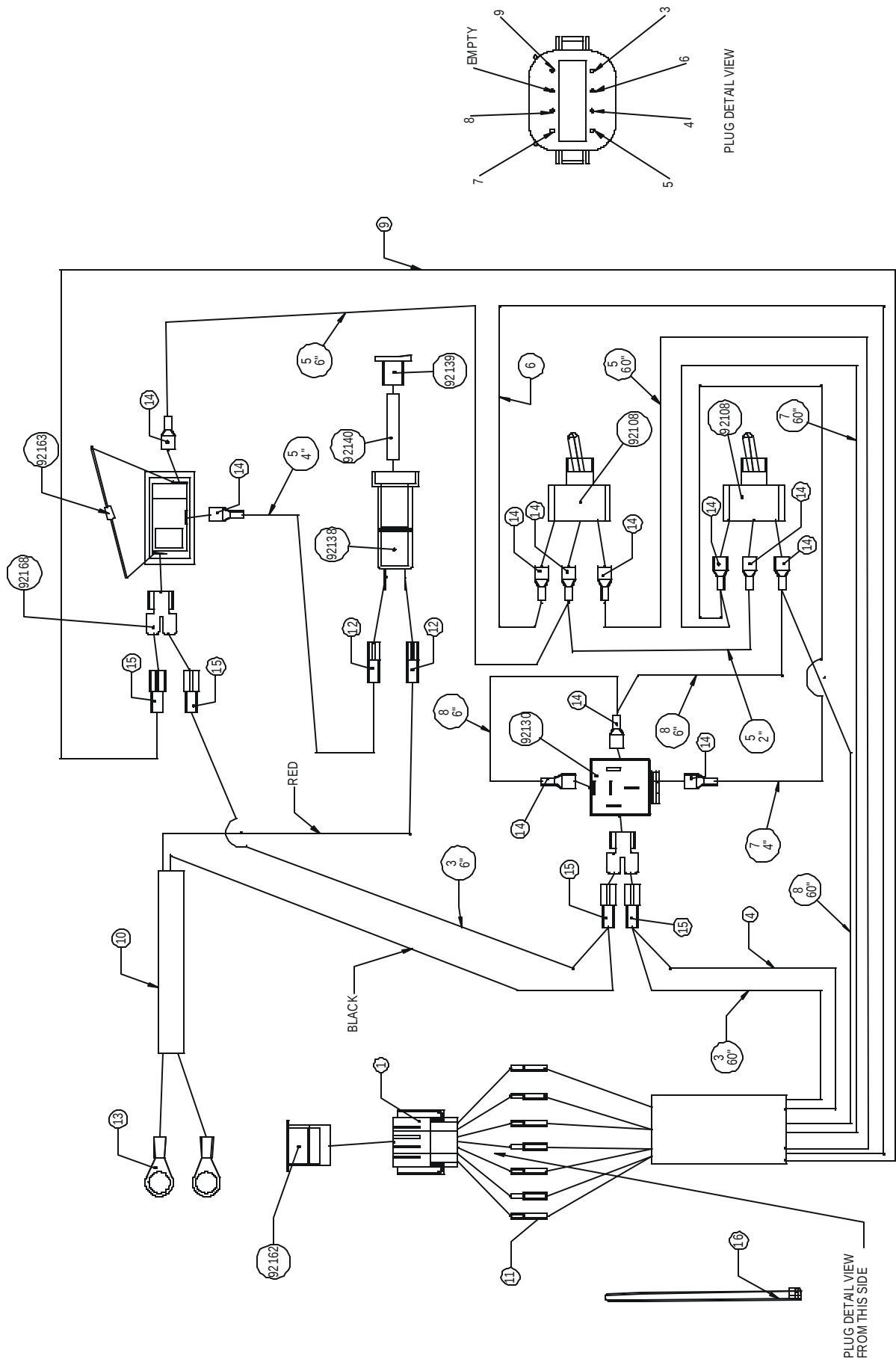


5.4 Wiring for Control Box (Part No. 90138)

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	92106	ELEC_CONNECTOR,F,7PIN	1
2	92143(5)	ELEC_LOOM,1/2,SPLIT,CORRIGATED	1
3	92149(5.5)	ELEC_WIRE,16GA,STRAND,BLACK	1
4	92150(5)	ELEC_WIRE,16GA,STRAND,WHITE	1
5	92151(6)	ELEC_WIRE,16GA,STRAND,RED	1
6	92152(5)	ELEC_WIRE,16GA,STRAND,ORANGE	1
7	92153(5.33)	ELEC_WIRE,16GA,STRAND,GREEN	1
8	92154(6)	ELEC_WIRE,16GA,STRAND,YELLOW	1
9	92155(5)	ELEC_WIRE,16GA,STRAND,BROWN	1
10	92156(8.5)	ELEC_WIRE,2C-16GA,STRAND,RED/BLACK	1
11	92158	ELEC_CONNECTOR,F,SOCKET	7
12	92165	ELEC_CONNECTOR,QD,188F,16-14,ST,INS	2
13	92166	ELEC_CONNECTOR,RING,3/8,16-14,ST,INS	2
14	92167	ELEC_CONN,QD,250F,16-14,ST,FUL	11
15	92169	ELEC_CONNECTOR,QD,250F,16-14,ST,INS	4
16	92170	TIE,CABLE,4",BLACK	5

NOTE:

ITEM 2 - SPLIT LOOM COVERS THE WIRES
FROM THE BACK OF THE BOX TO THE PLUG



6.0 Parts Index

PartNum	DESCRIPTION	PAGE	ITEM
30100	SUSP,TIRE,11LX15FI,12 PLY	31	2
30102	SUSP,HUB,COMPLETE,EM5500	20	3
30104	RIM,1.5X8,-1.5,8,OFFWHITE	31	1
30145	HYD,FIT,ELBOW,10MB-8MJ90	46	1
30146	HYD,HOSE,1/2X33,8FJX-8FJ90T,1W	46	2
30147	HYD,HOSE,1/2X52,8FJ90TL,1W	46	3
30148	HYD,HOSE,1/2X72,8FJX-8FJ90T,1W	46	4
30149	HYD,HOSE,1/2X108,8FJX-8MP,1W	46	5
30150	HYD,FIT,TEE,8FJX-8MJ-8MJ	46	6
30152	HYD,FIT,ADAPTER,8MB-8FJX	46	7
30197	PIN,SPRING,3/16X1-1/2	24	9
30200	HYD,FIT,PLUG,8MB	38	1
30204	HYD,FIT,ADAPTER,10MB-8MJ	46	8
30206	HYD,HOLDER,HOSE,1/2	16	6
30207	ZERK,1/4-28,GF641,STRAIGHT	22	11
30208	PLT,SERIAL#	14	1
30209	HYD,FIT,PIONEER,MALE,8FP	38	2
30209	HYD,FIT,PIONEER,MALE,8FP	46	9
30210	HYD,CLAMP,HOSE,1/2	38	3
30211	HYD,FIT,ELBOW,8MB-8MJ90	38	4
30212	HYD,FIT,ELBOW,8MP-8MJ90	38	5
30214	HYD,FIT,TEE,8MB-8MJ-8MJ	46	10
30215	HYD,FIT,ADAPTER,8MB-8MJ	38	6
30216	HYD,FIT,CROSS,8MJ	38	7
30220	SUSP,CAP,DUST	22	1
30221	PIN,COTTER,3/16X1-3/4	22	2
30222	NUT,SLOTTED,1,UNF	22	3
30223	WASHER,FLAT,1IDX2OD,.2385	22	4
30226	DRV,BRG,RACE,INNER,1.781	22	5
30228	DRV,BRG,SEAL,1.98	22	6
30229	SUSP,HUB,EM5500,8BOLT	22	7
30237	NUT,HEX,1,UNS,GR5	18	1
30237	NUT,HEX,1,UNS,GR5	34	2
30238	PIN,COTTER,3/16X1-1/2	18	2
30238	PIN,COTTER,3/16X1-1/2	34	3
30238	PIN,COTTER,3/16X1-1/2	54	3
30239	SETSCREW,SOCKET,3/8X1/2KNUR	18	3
30240	HYD,FIT,PLUG,1/2-14 NPTF,DRY	18	4
30240	HYD,FIT,PLUG,1/2-14 NPTF,DRY	34	4
30242	HYD,CYL,ROD,1-1/2X17,NITRO	34	6
30245	HYD,CYL,3-1/2X13,H6203	34	7
30246	HYD,CYL,3-1/2X16,H6206	18	6
30249	HYD,CYL,TIEROD,5/8X16,H6678	18	7
30251	HYD,CYL,PISTON,3-1/2,H6688	18	8
30251	HYD,CYL,PISTON,3-1/2,H6688	34	8
30252	HYD,CYL,ROD,1-1/2X16	18	10
30253	HYD,CYL,CLEVIS,1-1/4,1 PIN	18	9
30255	HYD,CYL,TIEROD,5/8X13,SPECIAL	34	9
30258	HYD,CYL,CLEVIS,CAP,3-1/2,NPTF	18	11
30258	HYD,CYL,CLEVIS,CAP,3-1/2,NPTF	34	10

30259	HYD,CYL,CAP,ROD,3-1/2X1-1/2	18	12
30259	HYD,CYL,CAP,ROD,3-1/2X1-1/2,8FP	34	11
30261	LOCK,THREAD,NYLOCK	18	13
30263	HYD,CYL,SEALKIT,3-1/2	18	14
30263	HYD,CYL,SEALKIT,3-1/2,639578	34	12
30269	BOLT,U,SQ,5/8-11,6X4-1/2,1-1/2	23	3
30294	SCREW,TEK,1/4X1	52	7
30294	SCREW,TEK,1/4X1	54	4
30294	SCREW,TEK,1/4X1	58	12
30313	HYD,FIT,TEE,8MJ-8MJ-8MJ	46	11
30390	HYD,FIT,ELBOW,6MB-6MJ90	38	8
30408	ELEC,CONN,BUTT,16-14	60	1
30456	CLAMP,CABLE,3/8"	55	5
30526	ELEC,LIGHT,RED&AMBER,LEFT	58	5
30527	ELEC,LIGHT,RED&AMBER,RIGHT	58	6
30555	ELEC,CONNECTOR,LIGHT,FEMALE	60	2
30556	ELEC,CONN,7 WIRE,FEMALE	60	3
30559	CLAMP,ROPE,WIRE,1/16	62	8
30559	CLAMP,ROPE,WIRE,1/16	63	5
30577	DECAL,RED REFL,2X9	14	2
30578	DECAL,AMBER REFL,2X9	14	3
30580	HYD,FIT,ELBOW,8MP-6MJ90	38	9
30581	HYD,FIT,ADAPTER,6FJX-6MB	38	10
30582	HYD,HOSE,3/8X14.5,8FJX-6FJX,1W	38	11
30583	HYD,HOSE,3/8X30,8FJ90TL,1W	38	12
30592	ELEC_CONNECTOR,M,4-PIN	60	4
30593	ELEC_CONNECTOR,WEDGE,F,4-PIN	60	5
30594	ELEC_CONNECTOR,WEDGE,M,4-PIN	60	6
30595	ELEC_CONNECTOR,F,4-PIN	60	7
30651	ROLLER,CHAIN,3ODX1-1/4ID	24	10
30652	DECAL,CAUTION,TIRES,90 PSI	14	4
30653	HYD,CHECK,PILOT,3X6MB	38	13
30663	NUT,HEX,5/8,UNC,GR5,ZP	34	1
31016	BOLT,HEX,1/2X1-1/2,UNC,GR5,ZP	20	4
31016	BOLT,HEX,1/2X1-1/2,UNC,GR5,ZP	23	4
31016	BOLT,HEX,1/2X1-1/2,UNC,GR5,ZP	24	14
31016	BOLT,HEX,1/2X1-1/2,UNC,GR5,ZP	26	8
31016	BOLT,HEX,1/2X1-1/2,UNC,GR5,ZP	28	4
31017	BOLT,HEX,1/2X1-3/4,UNC,GR5,ZP	55	8
31033	BOLT,HEX,1/4X3/4,UNC,GR5,ZP	50	8
31033	BOLT,HEX,1/4X3/4,UNC,GR5,ZP	62	5
31038	BOLT,HEX,1X7-1/2,UNC,GR5,ZP	16	9
31040	BOLT,HEX,3/4X2-1/2,UNC,GR5,ZP	32	15
31040	BOLT,HEX,3/4X2-1/2,UNC,GR5,ZP	36	15
31043	BOLT,HEX,3/8X1,UNC,GR5,ZP	38	29
31051	BOLT,HEX,5/8X1-1/2,UNC,GR5,ZP	50	9
31052	BOLT,HEX,5/8X2,UNC,GR5,ZP	26	9
31053	BOLT,HEX,5/8X1-3/4,UNC,GR5,ZP	16	10
31061	BOLT,U,SQ,1/2-13,3X7,1-1/4 THREAD	58	13
31070	BOLT,HEX,1/2X2,UNC,GR5,ZP	28	5
31159	NUT,ACME,1,5TPI,RH	50	10
31172	NUT,NYLOCK,1,UNC,ZP	16	11

31173	NUT,NYLOCK,1/2,UNC,ZP	16	12
31173	NUT,NYLOCK,1/2,UNC,ZP	20	5
31173	NUT,NYLOCK,1/2,UNC,ZP	24	15
31173	NUT,NYLOCK,1/2,UNC,ZP	26	10
31173	NUT,NYLOCK,1/2,UNC,ZP	28	6
31173	NUT,NYLOCK,1/2,UNC,ZP	50	11
31173	NUT,NYLOCK,1/2,UNC,ZP	55	9
31173	NUT,NYLOCK,1/2,UNC,ZP	58	14
31174	NUT,NYLOCK,1/4,UNC,ZP	46	13
31174	NUT,NYLOCK,1/4,UNC,ZP	58	15
31174	NUT,NYLOCK,1/4,UNC,ZP	62	6
31176	NUT,NYLOCK,3/8,UNC,ZP	38	30
31177	NUT,NYLOCK,5/16,UNC,ZP	38	31
31178	NUT,NYLOCK,5/8,UNC,ZP	16	13
31178	NUT,NYLOCK,5/8,UNC,ZP	23	5
31178	NUT,NYLOCK,5/8,UNC,ZP	26	11
31178	NUT,NYLOCK,5/8,UNC,ZP	30	3
31178	NUT,NYLOCK,5/8,UNC,ZP	32	14
31178	NUT,NYLOCK,5/8,UNC,ZP	36	14
31182	PIN,COTTER,1/4X2-1/2	16	14
31182	PIN,COTTER,1/4X2-1/2	32	9
31182	PIN,COTTER,1/4X2-1/2	36	11
31218	WASHER,LOCK,5/8,ZP	50	12
31235	WASHER,FLAT,1,ZP	54	5
31236	WASHER,FLAT,1/2,ZP	16	15
31236	WASHER,FLAT,1/2,ZP	50	13
31237	WASHER,FLAT,1/4,ZP	46	14
31239	WASHER,FLAT,5/16,ZP	38	32
31240	WASHER,FLAT,5/8,ZP	50	14
31241	WASHER,FLAT,7/16,ZP	26	12
31243	WASHER,LOCK,1,ZP	50	15
31246	WASHER,LOCK,3/4,ZP	32	17
31246	WASHER,LOCK,3/4,ZP	36	17
31319	WASHER,LOCK,3/8,ZP	55	10
31336	BOLT,HEX,5/8X3,UNC,GR5,ZP	30	4
31336	BOLT,HEX,5/8X3,UNC,GR5,ZP	32	13
31336	BOLT,HEX,5/8X3,UNC,GR5,ZP	36	13
31442	PIN,HITCH,3/8X3	62	4
31442	PIN,HITCH,3/8X3	63	3
31469	BOLT,HEX,3/4X7,UNC,GR5,ZP	32	16
31469	BOLT,HEX,3/4X7,UNC,GR5,ZP	36	16
31535	BOLT,HEX,1/4X1-1/2,UNC,GR5,ZP	58	16
31580	BOLT,CARR,1/4X2-1/2,UNC,GR5,ZP	46	15
31593	CLIP,AUTOMOTIVE,1/4,GR5,ZP	50	16
31602	PIN,HAIR,#210	32	10
31602	PIN,HAIR,#210	36	12
31613	TIE,CABLE,NYLON,BLACK,11 1/2"	58	7
31614	ELEC,CABLE,4-14,ULTRA-FLEX	60	8
31615	ELEC,LOOM,3/4,SPLIT,CORRIGATED	60	9
31648	GROM,RUBBER,1-3/8,3/4,1-1/16	58	8
31649	ELEC,CLAMP,CABLE,1/2	52	8

31649	ELEC,CLAMP,CABLE,1/2	58	9
31650	ELEC,CLAMP,CABLE,3/4	58	10
31663	BOLT,U,SQ,1/4-20,1-1/2X2-1/4,1	58	17
31664	ELEC_LIGHT,DUAL,RED	58	11
31667	SPRING,.120 HD,OD .859,4.75"	55	6
31673	ELEC,CONN,BUTT,10-12	60	10
31797	BOLT,SOCKET,1/2X2-3/4,UNC,GR5	50	17
31892	DECAL,WARNING,TENSION,CHAIN	14	5
31933	JACK,7000LBX15,SQ MNT,SIDEWIND	16	7
32035	HYD,FIT,TEE,8MP-8MJ-8MJ	38	14
32071	WASHER,FLAT,1-1/4	50	18
32079	HYD,FIT,ELBOW,6MB-8MJ90	38	15
32250	HYD,CYL,PIN,1	18	5
32250	HYD,CYL,PIN,1	34	5
32301	SUSP,BOLT,WHEEL,9/16X1-1/4TX1-13/16L	22	12
32639	BEARING,THRUST,FRONT	49	13
32647	HYD,MOTOR,SEALKIT,ROTOR,STATOR	49	1
32649	BEARING,HOUSING,REAR,1/2"	49	4
32651	BEARING,THRUST,REAR	49	2
32720	BRG,HOUSING,FRONT	49	3
32721	KIT,ROTOR	49	5
32722	KIT,LINK,DRIVE	49	6
32723	KIT,HOUSING	49	7
32724	KIT,SHAFT	49	8
32725	KIT,MANIFOLD	49	9
32726	PALTE,BALNCE	49	10
32727	COVER,END	49	11
32728	KIT,BOLT	49	12
32981	DECAL,PIMA	14	13
33014	SUSP,TUBE,11L-15	31	4
33206	COLLAR,SHAFT,1/2,2_PIECE	55	7
33207	ROPE,WIRE,5/32",STRAND	52	4
33207	ROPE,WIRE,5/32",STRAND	52	5
33208	SLEEVE,STOP,CABLE,5/32"	52	6
33234	NUT,STOVER,3/4,UNC,GR5,ZP	32	18
33234	NUT,STOVER,3/4,UNC,GR5,ZP	36	18
33316	OIL,HYDRAULIC,UTF	32	11
33316	OIL,HYDRAULIC,UTF	36	10
40003	PIN,HITCH	16	1
40006	FRAME,SUB,REAR	24	1
40010	PIN,ARM,SIDE,PIVOT	32	1
40010	PIN,ARM,SIDE,PIVOT	36	1
40019	PIN,LOCK,SAFETY	24	2
40062	HITCH,A-FRAME,LEFT	16	2
40063	HITCH,A-FRAME,RIGHT	16	3
40088	BUMPER,BALE	23	1
40105	FRAME,SUB,SIGN,SMV	28	1
40115	TIGHTENER,MOTOR,LEFT	50	1
40116	TIGHTENER,MOTOR,RIGHT	50	2
40118	MOUNT,BUMPER,BALE	23	2
40121	PIN,SPROCKET,REAR	24	3
40140	BRACKET,CYLINDER	26	1

40142	HITCH,TONGUE,DOUBLE	16	4
40143	FRAME,MIDDLE	26	2
40144	RAIL,OUTSIDE,LEFT	24	4
40145	RAIL,INSIDE,LEFT	24	5
40146	RAIL,INSIDE,RIGHT	24	6
40147	RAIL,OUTSIDE,RIGHT	24	7
40168	ELEC_HARNESS,LIGHTS,14BM	58	2
40486	TUBE,DECK,CYL	26	3
40487	HITCH,CROSSMEMBER	16	5
42061	TETHER,1/16X14-1/2,C/W_HAIRPIN	24	8
42100	WLDT,ARM,INNER,RT	32	2
42102	WLDT,ARM,FORK,OUTERRT	32	3
42103	WLDT,PIN,FORK,PIVOT	32	4
42103	WLDT,PIN,FORK,PIVOT	36	2
42104	WLDT,PIN,FORK,ADJUSTMENT	32	5
42104	WLDT,PIN,FORK,ADJUSTMENT	36	3
42105	WLDT,PIN,LIFT	32	6
42105	WLDT,PIN,LIFT	36	4
42106	WLDT,ARM,INNER,LT	36	5
42107	WLDT,ARM,FORK,OUTERLT	36	6
45235	FRAME,SUB,FRONT	26	4
45242	AXLE	20	1
45243	POCKET,END,AXLE	20	2
45245	FRAME,MAIN,RIGHT	28	2
45246	FRAME,MAIN,LEFT	28	3
45278	MOUNT,LIGHT,BM,LEFT	62	1
45279	MOUNT,LIGHT,BM,RIGHT	63	1
45280	MOUNT,BRKT,LIGHT,BM,LT	62	2
45281	MOUNT,BRKT,LIGHT,BM,RT	63	2
45282	ASSY,MOUNT,LIGHT,BM,LT	58	3
45283	ASSY,MOUNT,LIGHT,BM,RT	58	4
49453	ASSY,INDICATOR,REAR	52	1
49454	WLDT,PADDLE,INDICATOR	54	1
49455	ASSY,INDICATOR,FRONT	52	2
49456	WLDT,ROD,INDICATOR	55	1
49457	WLDT,BRACKET,REAR	54	2
49460	WLDT,FORK,OUTER,RT	32	7
49461	WLDT,FORK,INNER,RT	32	8
49462	WLDT,FORK,OUTER,LT	36	7
49463	WLDT,FORK,INNER,LT	36	8
90103	HYD,CYL,3.6X16,1.5,8FP	16	8
90120	HYD,CYL,3.5X13,1.5NITRO,8FP	32	12
90120	HYD,CYL,3.5X13,1.5NITRO,8FP	36	9
90223	HYD,HOSE,3/8X58,8MJ-8MP,1W	38	16
90243	HYD,HOSE,3/8X44,8FJX-8MJ,1W	38	17
90245	HYD,HOSE,3/8X28,8FJX-8MJ,1W	38	18
90271	HYD,HOSE,3/8X42,8FJX-8FJX,1W	38	19
90313	HYD,HOSE,3/8X18,8FJX-8FJX,1W	38	20
90421	HYD,LINE,STEEL,1/2X.049,8FJ	38	21
90422	HYD,LINE,STEEL,1/2X.049,8FJ	38	22
90423	HYD,LINE,STEEL,1/2X.049,8FJ	38	23
90424	HYD,LINE,STEEL,1/2X.049,8FJ	38	24

90425	HYD,LINE,STEEL,1/2X.049,8FJ	38	25
91048	SUSP,STEM,VALVE,TR801HP	31	3
91111	DRV,BRG,TAPERED,OUTER,1.375	22	8
91131	DRV,BRG,RACE,OUTER,1.375	22	9
91133	DRV,BRG,TAPERED,INNER,1.781	22	10
91508	DRV,CHAIN,ROLLER,2062H,304	24	11
91510	CHAIN,CONNECTOR,C2062	24	12
92014	CLAMP,CABLE,1/4	52	9
92024	DRV,BUSHING,2232400-24	24	13
92028	SIGN,SLOWMOVING,S279.5	62	3
92061	BUMPER,RUBBER	26	7
92063	DRV,SPROCKET,2062,10TOOTH,1-1/4	50	6
92070	HYD,VALVE,SV4-10-C-8T-12DQ	46	12
92077	ELEC_HARNESS,CONTROL,14BM	38	26
92089	HYD,VALVE,SOLENOID	38	27
92104	ELEC_CONNECTOR,M,7-PIN	41	1
92104	ELEC_CONNECTOR,M,7-PIN	56	1
92106	ELEC_CONNECTOR,F,7-PIN	42	1
92106	ELEC_CONNECTOR,F,7-PIN	56	2
92106	ELEC_CONNECTOR,F,7-PIN	64	1
92107	ELEC_SWITCH,ROCKER,3,NO	42	2
92108	ELEC_SWITCH,TOGGLE,3,NC	42	3
92119	SCREW,THUMB,10X3/4,UNC	42	4
92125	ELEC_BOX,CONTROL,14BM	38	28
92130	ELEC_RELAY,12V,30A	42	5
92138	ELEC HOLDER,BUS,BODY	42	6
92139	ELEC HOLDER,BUS,CAP	42	7
92140	ELEC_FUSE,BUS,12V20A,FAST	42	8
92141	RELIEF_BUSHING,1260	42	9
92143	ELEC,LOOM,1/2,SPLIT,CORRIGATED	41	2
92143	ELEC,LOOM,1/2,SPLIT,CORRIGATED	42	10
92143	ELEC,LOOM,1/2,SPLIT,CORRIGATED	56	3
92143	ELEC,LOOM,1/2,SPLIT,CORRIGATED	60	14
92143	ELEC,LOOM,1/2,SPLIT,CORRIGATED	64	2
92146	PLASTIC,ENCLOSURE	42	11
92149	ELEC,WIRE,16GA,STRAND,BLACK	41	3
92149	ELEC,WIRE,16GA,STRAND,BLACK	42	12
92149	ELEC,WIRE,16GA,STRAND,BLACK	56	4
92149	ELEC,WIRE,16GA,STRAND,BLACK	64	3
92150	ELEC,WIRE,16GA,STRAND,WHITE	41	4
92150	ELEC,WIRE,16GA,STRAND,WHITE	42	13
92150	ELEC,WIRE,16GA,STRAND,WHITE	56	5
92150	ELEC,WIRE,16GA,STRAND,WHITE	60	15
92150	ELEC,WIRE,16GA,STRAND,WHITE	64	4
92151	ELEC,WIRE,16GA,STRAND,RED	41	5
92151	ELEC,WIRE,16GA,STRAND,RED	42	14
92151	ELEC,WIRE,16GA,STRAND,RED	56	6
92151	ELEC,WIRE,16GA,STRAND,RED	60	16
92151	ELEC,WIRE,16GA,STRAND,RED	64	5
92152	ELEC,WIRE,16GA,STRAND,ORANGE	41	6
92152	ELEC,WIRE,16GA,STRAND,ORANGE	42	15
92152	ELEC,WIRE,16GA,STRAND,ORANGE	56	7

92152	ELEC,WIRE,16GA,STRAND,ORANGE	64	6
92153	ELEC,WIRE,16GA,STRAND,GREEN	41	7
92153	ELEC,WIRE,16GA,STRAND,GREEN	42	16
92153	ELEC,WIRE,16GA,STRAND,GREEN	56	8
92153	ELEC,WIRE,16GA,STRAND,GREEN	60	17
92153	ELEC,WIRE,16GA,STRAND,GREEN	64	7
92154	ELEC,WIRE,16GA,STRAND,YELLOW	41	8
92154	ELEC,WIRE,16GA,STRAND,YELLOW	42	17
92154	ELEC,WIRE,16GA,STRAND,YELLOW	56	9
92154	ELEC,WIRE,16GA,STRAND,YELLOW	64	8
92155	ELEC,WIRE,16GA,STRAND,BROWN	41	9
92155	ELEC,WIRE,16GA,STRAND,BROWN	42	18
92155	ELEC,WIRE,16GA,STRAND,BROWN	56	10
92155	ELEC,WIRE,16GA,STRAND,BROWN	60	18
92155	ELEC,WIRE,16GA,STRAND,BROWN	64	9
92156	ELEC,WIRE,2C-16GA,STRAND,RED/BLACK	42	19
92156	ELEC,WIRE,2C-16GA,STRAND,RED/BLACK	64	10
92157	ELEC_CONNECTOR,M,PIN	41	10
92157	ELEC_CONNECTOR,M,PIN	56	11
92157	ELEC_CONNECTOR,M,PIN	60	11
92158	ELEC_CONNECTOR,F,SOCKET	42	20
92158	ELEC_CONNECTOR,F,SOCKET	56	12
92158	ELEC_CONNECTOR,F,SOCKET	60	12
92158	ELEC_CONNECTOR,F,SOCKET	64	11
92161	ELEC_CONNECTOR,M,WEDGE	41	11
92161	ELEC_CONNECTOR,M,WEDGE	56	13
92162	ELEC_CONNECTOR,F,WEDGE	42	21
92162	ELEC_CONNECTOR,F,WEDGE	56	14
92163	ELEC,DIODE,12V,20A	42	22
92164	SCREW,TAP,#4X1/4,ZP	42	23
92165	ELEC_CONNECTOR,QD,188F,16-14,ST,INS	42	24
92165	ELEC_CONNECTOR,QD,188F,16-14,ST,INS	64	12
92166	ELEC_CONNECTOR,RING,3/8,16-14,ST,INS	41	12
92166	ELEC_CONNECTOR,RING,3/8,16-14,ST,INS	42	25
92166	ELEC_CONNECTOR,RING,3/8,16-14,ST,INS	64	13
92167	ELEC,CONN,QD,250F,16-14-ST,FUL	41	14
92167	ELEC,CONN,QD,250F,16-14-ST,FUL	42	26
92167	ELEC,CONN,QD,250F,16-14-ST,FUL	64	14
92168	ELEC_CONNECTOR,ADP,1/4,F/M/M,ST,NON	42	27
92169	ELEC_CONNECTOR,QD,250F,16-14,ST,INS	41	13
92169	ELEC_CONNECTOR,QD,250F,16-14,ST,INS	42	28
92169	ELEC_CONNECTOR,QD,250F,16-14,ST,INS	64	15
92170	TIE,CABLE,4",BLACK	41	15
92170	TIE,CABLE,4",BLACK	42	29
92170	TIE,CABLE,4",BLACK	60	13
92170	TIE,CABLE,4",BLACK	64	16
92184	HYD,MOTOR,45,2000PSI	50	7
92220	FACEPLATE,CONTROLBOX,14	42	30
92556	DECAL,CAUTION,MOVINGCHAIN	14	6
92559	DECAL,CAUTION,TOWSPEED	14	7
92561	DECAL,WARNING,HITCH,JACK,7000	14	8

92563	DECAL,CAUTION,INSTALLPIN	14	9
92583	DECAL,HIGHLINE,3-1/2	14	10
92584	DECAL,HIGHLINE,1400	14	11
92586	DECAL,PINSTRIPPING,7	14	12
E4740	PLT,S,BRACKET,SOLENOID,HYD	26	5
E4751	PLT,S,BRACKET,BOX,CONTROL	42	31
E4779	TUBE,DIVIDER,BALE	26	6
E4802	HOUSING,GUARD,RIGHT	50	3
E4803	PLT,S,FACE,GUARD	50	4
E4810	HOUSING,GUARD,LEFT	50	5
E4814	PLT,S,BRACKET,LIGHT,MIDDLE	58	1
E5307	ROLLER LINK	24	16
E5351	TETHER,16"	62	7
E5351	TETHER,16"	63	4
E5652	LUG,EXTENSION	30	1
E5653	CHAIN,LINK,1/2,GR40,5 LINKS	30	2
E5805	DECAL,CONTROL,BOX,FACEPLT,14BM	42	32
E6328	REFLECTIVE,TAPE,SELECTOR	52	3
E6423	ANGLE,MOUNT,SPRING	55	2
E6425	PLT,FLAG,INDICATOR	55	3
E6858	ANGLE,MOUNT,ROD	55	4

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7.0 Specifications

<i>Weight</i>	<i>Approximately 9,700 lbs (4,400 kg)</i>
<i>Hitch Weight (empty)</i>	<i>1740 lbs (789 kg)</i>
<i>Total Length</i>	<i>43'5"</i>
<i>Bed Length</i>	<i>37''</i>
<i>Total Width</i>	<i>16'9''</i>
<i>Bed Width</i>	<i>11'2"</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>Fourteen - 2,200 lb Bales to Max. 30,800 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 – 4 wheel oscillating tandems</i>
<i>Horsepower Required</i>	<i>100 hp</i>
<i>Hydraulic Outlets</i>	<i>Two</i>
<i>Hydraulic Pressure</i>	<i>2,500 psi. (17,240 KPa)</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 assmblies (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.