

**XL78-B
ROCKPICKER
OWNER'S MANUAL**

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Warranty

HIGHLINE Mfg. Inc. warrants its product to the original owner for a period of two years from the date of purchase, subject to the following provisions:

First Year	Warranty covers parts and labour
Second Year	Warranty covers parts only

- “ Warranty registration must be submitted to Highline Mfg. Inc. within 30 days of purchase.
- “ Highline Mfg. Inc. is not liable for any damages to this equipment resulting from use that is inconsistent with this manual and such damages that are not covered under this warranty.
- “ Warranty will be void and Highline Mfg. Inc. will not be liable in any way if the equipment is used for any purpose other than the intended agricultural application.
- “ All warranty service must be handled through an authorized Highline Mfg. Inc. dealer. At the time of requesting warranty service, the purchaser must present evidence of the delivery date of the equipment. The purchaser shall pay any premium for requested overtime, any charge for making service calls, and any charges incurred in transporting the equipment to and from the location of the warranty service. Freight costs associated with warranty repairs are not reimbursable.
- “ A Highline Mfg. Inc. representative must authorize any labour subject to warranty before work is started.
- “ Warranty will be void if any component of this equipment is altered or modified in any way unless written permission is given by Highline Mfg. Inc.
- “ Equipment used for rental, custom work, industrial or construction use will not be warranted by Highline Mfg. Inc.
- “ Highline Mfg. Inc. will not assume any responsibility or liability for any damage occurring to the equipment to which Highline Mfg. Inc. equipment is attached.
- “ Warranty terms and conditions are subject to provincial and state legislation.
- “ Warranty is limited to the purchase price paid for the equipment up to the manufacturer's suggested retail price. ANY WARRANTY LIABILITY RESULTING FROM THE WORKMANSHIP OF THIS EQUIPMENT is limited to the purchase price paid. Highline Mfg. Inc. assumes no responsibility whatsoever for warranty liability resulting from the misuse or improper operation and maintenance of this equipment.

President's Message

The XL-78, a proven name in the rock-picking field, is manufactured by Highline Mfg. Inc. The XL-78 rock picker was designed to work in the most difficult of rock picking situations. A little time and effort spent in proper maintenance will ensure the performance and durability of your rock picker.

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

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

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

Highline Mfg. Inc. thanks and congratulates you for selecting a XL-78 rock picker, as the machine for your rocking picking needs.

Raymond J. Bussière, President
Highline Mfg. Inc.

PO 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

CAREFUL OPERATION IS THE BEST INSURANCE AGAINST AN ACCIDENT!

- Always disengage PTO and hydraulic motors before dismounting tractor.
- Do not operate unless guards are in place.
- Keep yourself and others clear of rotating parts to prevent injury.
- Never allow anyone to stand near rock picker while dumping or picking rocks.
- Never attempt to manually remove rocks from tines while hydraulic motor is engaged.
- Lower transport locks before raising bucket. To remove transport locks, raise apron slightly and lower brackets. DO NOT lift bucket when transport locks are in position otherwise sever damage WILL occur.
- Relieve pressure in hydraulic lines before disconnecting lines or performing maintenance on the hydraulic system.

1.0 Introduction & Pre-Delivery

1.1 General Description of XL-78 Rock Picker

The XL-78 rock picker covers a width of 84" and has a dumping height of 90". One set of hydraulic lines are required for dumping and lowering the picker's collecting apron. The rock picker is hydraulically driven, however, the reel may be reversed if the rock picker becomes plugged.

1.2 Pre-Delivery Check List

The following is a list of parts required if the XL-78 rock picker has not been assembled prior to delivery. If any parts are not included, contact your authorized Highline dealer or **Highline Mfg. Inc.**

Qty.	Description	Part Number
2	TIRE ASSY, 21 IN, 10 PLY	31926
2	AXLE ASSEMBLY	70121
8	BOLT, HEX, 3/4" X 2-1/2", UNC, GR5	31040
8	NUT, NYLOCK, 3/4", UNC	31175
8	WASHER, LOCK, 3/4", PLATED	31246

2.0 Operating Instructions

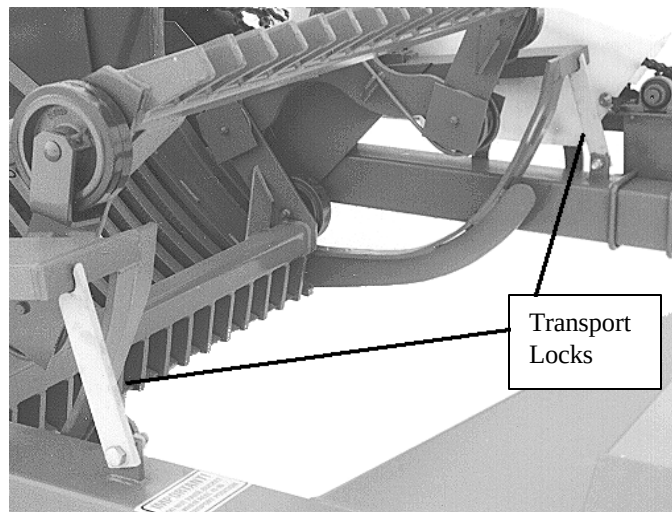
2.1 Field Preparation

Field preparation plays a major role in the picking performance of the XL-78. For best picking conditions, the field should be cultivated prior to picking. This operation brings stones to the surface and buries field residue.

2.2 Pre-Start Instructions

Transport locks need to be lowered before operation. To lower transport locks, raise apron slightly and lower transport locks towards the front of the machine. DO NOT lower apron when transport locks are in position otherwise severe damage WILL occur.

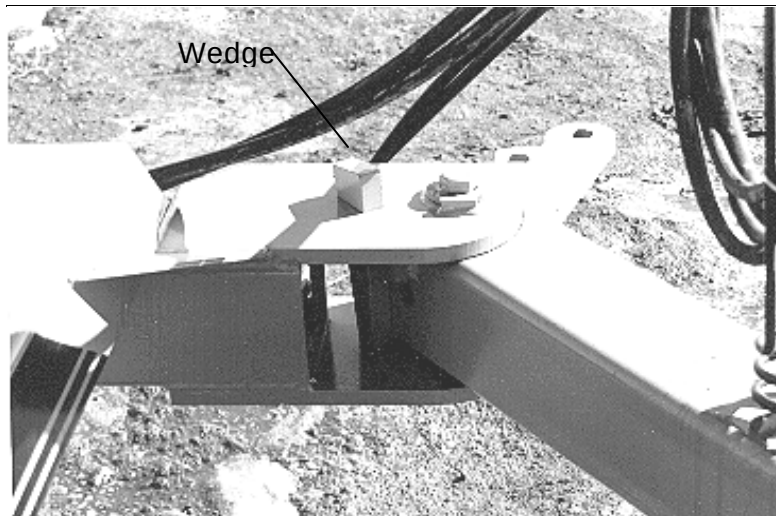
Figure 1 - Locks in Transport Position



2.3 Transporting Instructions

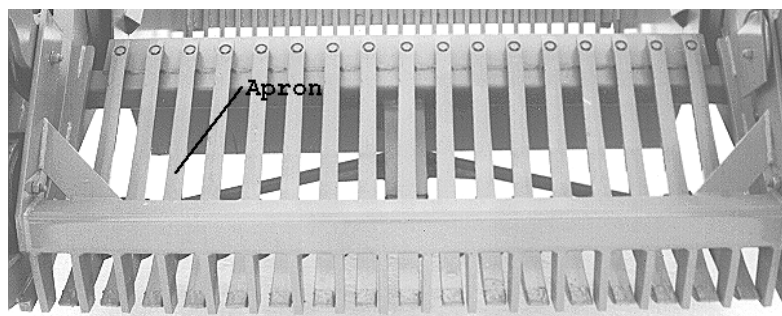
To ensure safe transport of the XL-78 rock picker, the transport locks and reel should be raised to prevent the apron from dragging. To put transport locks in place, raise the apron until the transport locks catch on the reel frame. To lower transport locks, raise apron until locks are free and turn them forward.

For road transport, the hitch may be turned to reduce the travel width of the rock picker. To change the position of the hitch, the wedge (Figure 2) is removed and the hitch is positioned for field or transport position. The wedge is then placed back into position and ready for field or transport.

Figure 2 - Hitch Wedge

2.4 Apron Height Adjustment & Bucket Dumping

The apron (Figure 3) height is adjustable through the hydraulic cylinders. By lowering the cylinders completely, the apron will be at its lowest picking level. The working height of the apron will depend upon the soil conditions and the size of rocks. By extending the cylinder, the apron will lower. Extending the cylinder more will raise the bucket into dumping position.

Figure 3 - Front View of Apron

2.5 Field Instructions

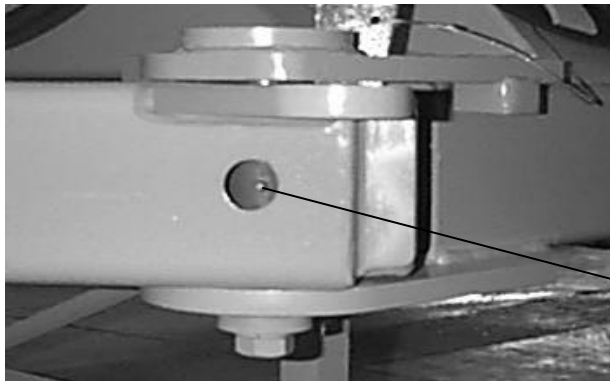
For proper operation, the XL-78 should run at a field speed of 3-4 mph (4.8-6.5 km/h) with the reel rotating at 35 rpm. When picking large rocks, field speed should be decreased to reduce possible damage due to large impacts. The operating height of the apron varies depending on the size of stones picked. For small stones, the apron should be as low as possible to the ground and be raised to a suitable level for larger stones.

3.0 Maintenance Instructions

- To ensure a long operating life of your XL-78 Rock Picker, follow this maintenance procedure.
- Ensure tire air pressure is maintained at 27 psi. If tire pressure is not maintained, severe tire damage may result.
- Check gearbox oil and add #90 gear oil if needed.
- Periodically check all bolts and set screws for tightness.
- Grease the following points as described:

3.1 Grease Locations

Figure 4 - Hitch Grease Location



GREASE NO.	DESCRIPTION	FREQUENCY
1	Hitch Pivot	Monthly

Figure 5 - Reel Greasing Location



GREASE NO.	DESCRIPTION	FREQUENCY
2	Reel Bearings	Yearly

Figure 6 - Apron and Tire Maintenance Locations

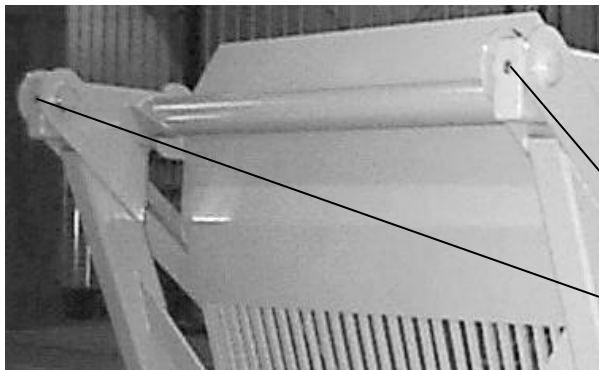


GREASE NO.	DESCRIPTION	FREQUENCY
3	Apron Pivot	Daily
4	Wheel Hub	4 Times/Year

3

4

Figure 7 - Dump Mechanism Grease Locations



GREASE NO.	DESCRIPTION	FREQUENCY
5	Front Bucket Pivot	Daily

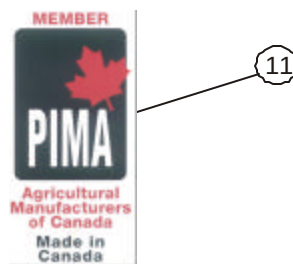
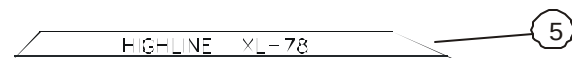
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4.0 Decal Location and Placement

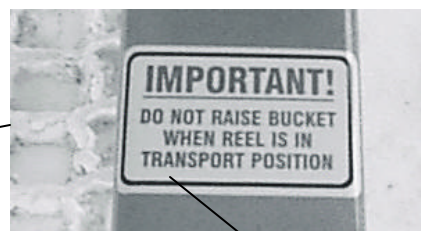
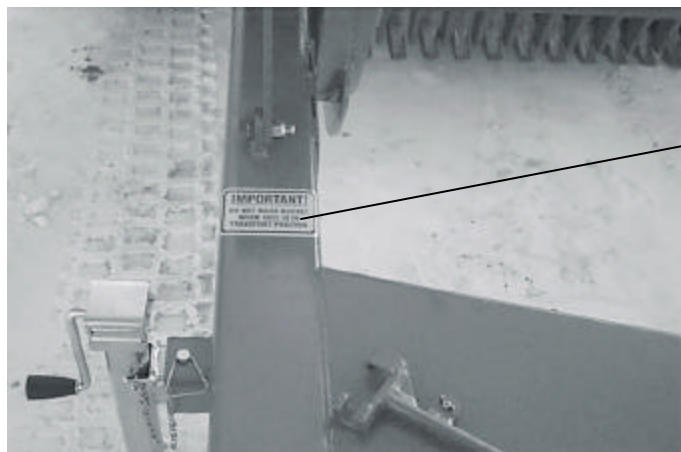
Item No.	Part No.	Description	Qty
1	92599	Decal.Highline,XL78.Back	1
2	30577	Decal.Red Refl,2X9	2
3	30285	Decal.Danger.To Prevent	2
4	30135	Decal,Danger,Shut Off Machine	1
5	92598	Decal.Highline,XL78.Front	1
6	30578	Decal,Amber Refl,2X9	2
7	32937	Decal.Warning,Do Not Raise	2
8	92600	Decal,Highline,XL78,Left	1
9	E5073	Decal.RP.Cylinder	1
10	30208	Plt,Serial #	1
11	32981	Decal.Pima	1
*12	92601	Decal,Highline,XL78,Right	1

*Not shown in pictures





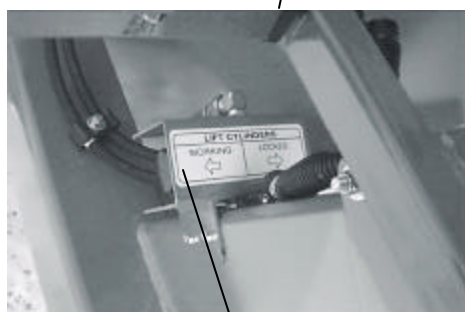
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5.0 Parts Information

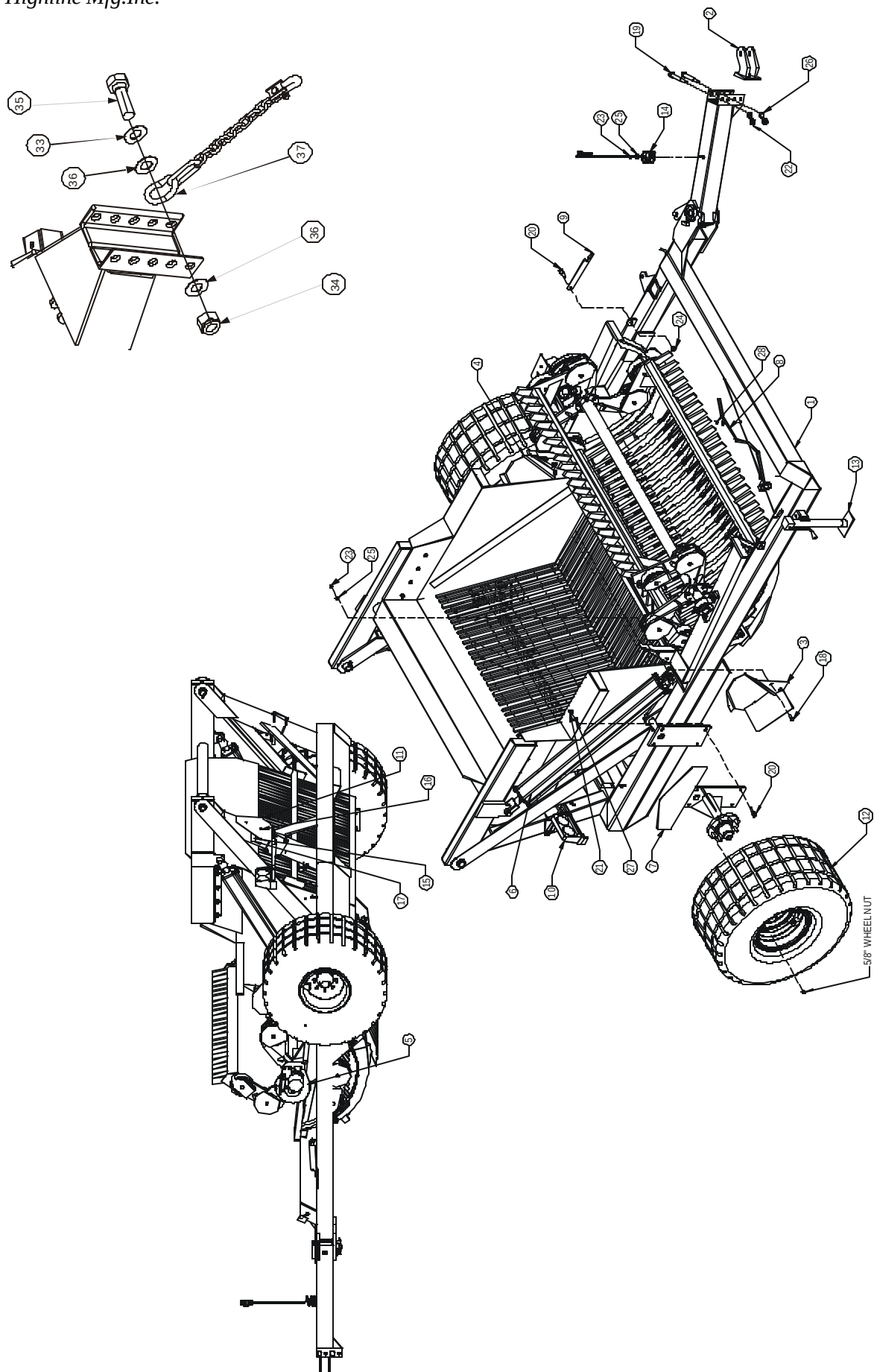
5.1 Main Assembly

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	70134	ASSEMBLY,PRE-PAINT,7	1
2	70003	HITCH, CLEVIS,DOUBLE,ANGLE	1
3	70051	GUARD,CYL,DUMP,RIGHT	1
4	70052	GUARD,CYL,DUMP,LEFT	1
5	70083	HYDRAULIC MOTOR ASSEMBLY	1
6	70102	HYD,CYL,ASSEMBLY, 7	1
7	70121	AXLE,COMPLETE,7	2
8	70179	TOOL,ROCKPICKER	1
9	E4638	PLT,LOCK,TRANSPORT	2
10	48106	KIT, LIGHT,XL78	1
11	92028	SIGN,SLOWMOVING,S276.5	1
12	31926	WHEEL,COMPLETE,21.5Lx16.1,8,WH	2
13	31800	JACK,5000LBX15,SQ MNT,SIDEWIND	1
14	30206	HYD,HOLDER,HOSE,1/2	1
15	30208	PLT,SERIAL#	1
16	30040	RIVET,ST,3/16x.815,.625 HEAD	2
17	30161	RIVET,ST,5/32x.665,.312 HEAD	2
18	31007	BOLT,CARR,1/2X1-1/2,UNC,GR2,ZP	4
19	31038	BOLT,HEX,1X7-1/2,UNC,GR5,ZP	2
20	31040	BOLT,HEX,3/4X2-1/2,UNC,GR5,ZP	10
21	31167	NUT,HEX,3/4,UNC,GR5,ZP	8
22	31172	NUT,NYLOCK,1,UNC,ZP	2
23	31173	NUT,NYLOCK,1/2,UNC,ZP	5
24	31175	NUT,NYLOCK,3/4,UNC,ZP	2
25	31236	WASHER,FLAT,1/2,ZP	5
26	31243	WASHER,LOCK,1,ZP	2
27	31246	WASHER,LOCK,3/4,ZP	8
28	31532	NUT,WING,1/4,UNC,ZP	2
29	30295(20)*	PAINT,ORANGE	1
30	30296(2)*	PAINT,CATALYST	1
31	E5047*	MANUAL,XL78-B	1
32	70185*	DECALS,HIGHLINE,XL78	1

* NOT SHOWN

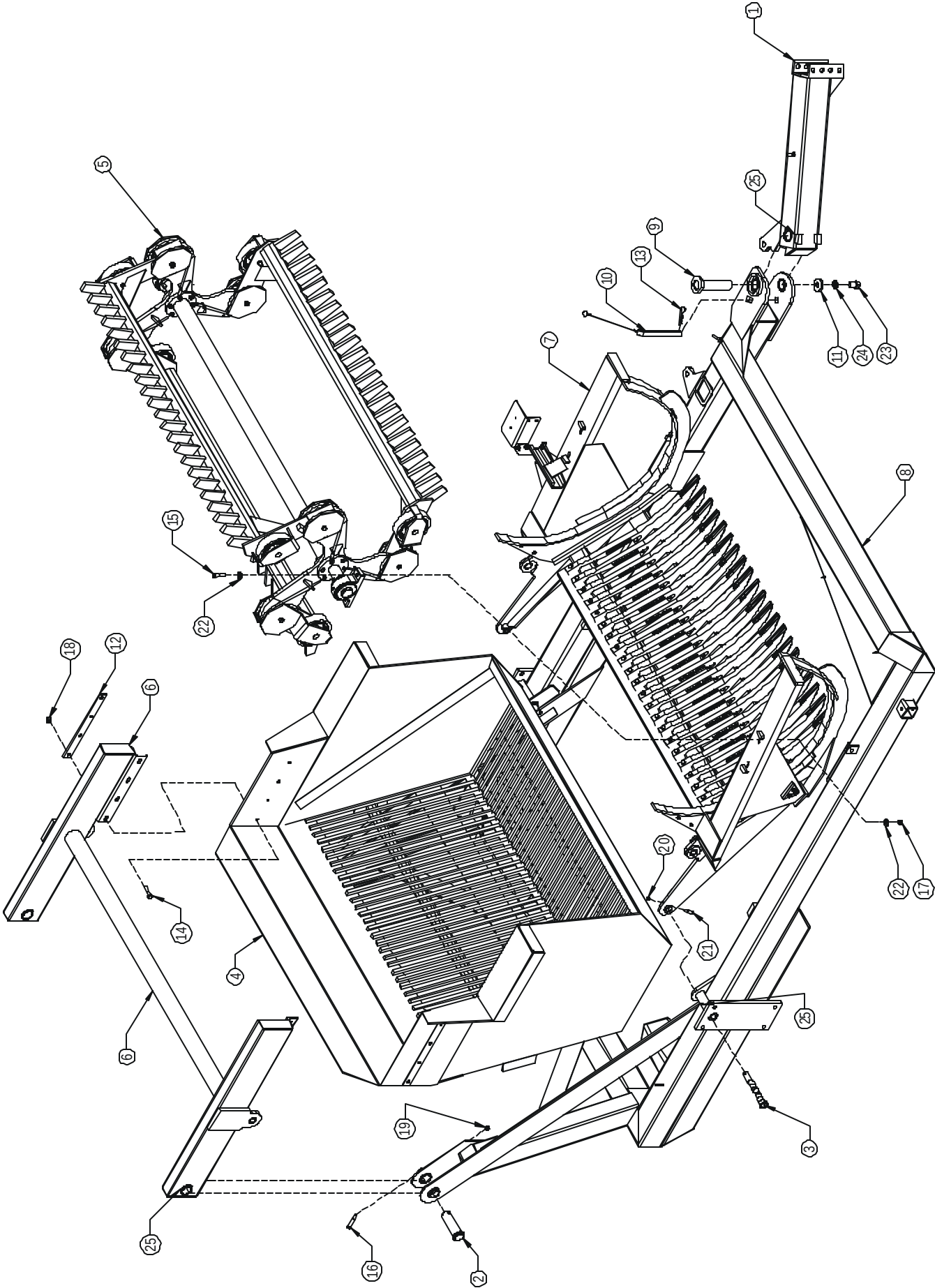
Optional Safety Chain

ITEM NO.	PART NO.	DESCRIPTION	QTY.
33	31243	WASHER,LOCK,1,ZP	1
34	31162	NUT,HEX,1,UNC,GR5,ZP	1
35	31471	1"X3" HEX BOLT, UNC,GR5	1
36	31235	1" FLAT WASHER	2
37	31590	CHAIN,SAFETY,ASAE,10100LB,5'4"	1



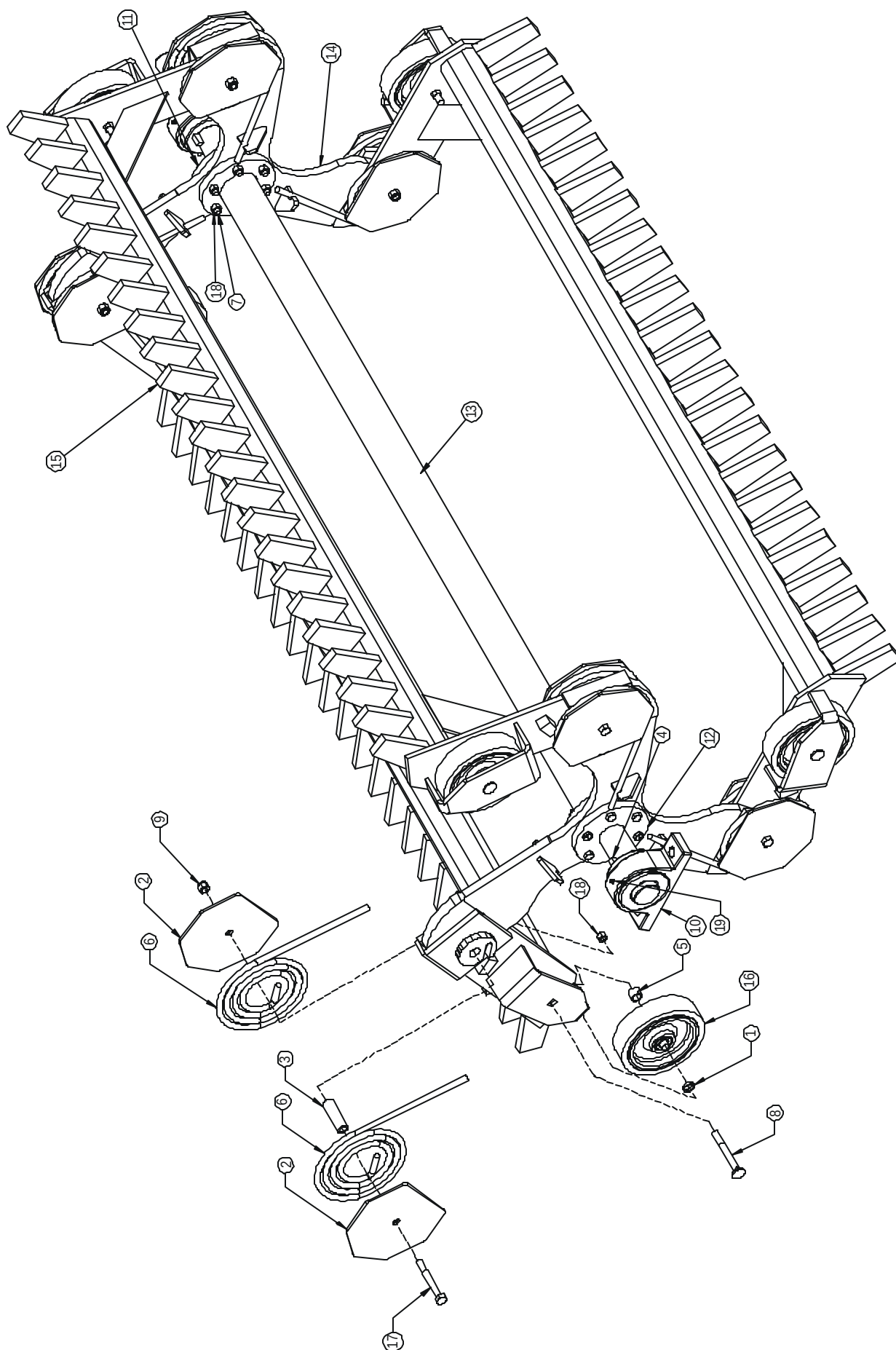
5.2 Pre-Paint Assembly (70134)

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	70002	ARM,HITCH	1
2	70025	PIN,DUMP	2
3	70027	PIN,SIDE,APRON	2
4	70089	BUCKET,7	1
5	70090	REEL,COMPLETE,7	1
6	70091	DUMP,BUCKET,7	1
7	70099	APRON,COMPLETE,7	1
8	70103	FRAME,WLDT,7	1
9	70190	HITCH,PIN	1
10	70300	HITCH,STOP,ASSY	1
11	E2240	WASHER,HITCH,BOTTOM	1
12	E4550	PLT,STOP,ARM,DUMP	2
13	91609	PIN,HITCH,5/32X3	1
14	31055	BOLT,HEX,5/8X2-1/2,UNC,GR8,ZP	8
15	31054	BOLT,HEX,5/8X2-1/2,UNC,GR5,ZP	4
16	31023	BOLT,HEX,1/2X3-1/2,UNC,GR5,ZP	2
17	31169	NUT,STOVER,5/8,UNC,GR5,ZP	4
18	31671	NUT,NYLOCK,5/8,UNC,GRC,ZP	8
19	31173	NUT,NYLOCK,1/2,UNC,ZP	2
20	31176	NUT,NYLOCK,3/8,UNC,ZP	2
21	31830	BOLT,HEX,3/8X2-1/4,UNC,GR5,ZP	2
22	32075	WASHER,FLAT,1-1/2X11/16X3/16	8
23	31037	BOLT,HEX,1X1-1/2,UNC,GR5,ZP	1
24	31243	WASHER,LOCK,1,ZP	1
25	30207	ZERK,1/4-28,GF641,STRAIGHT	5



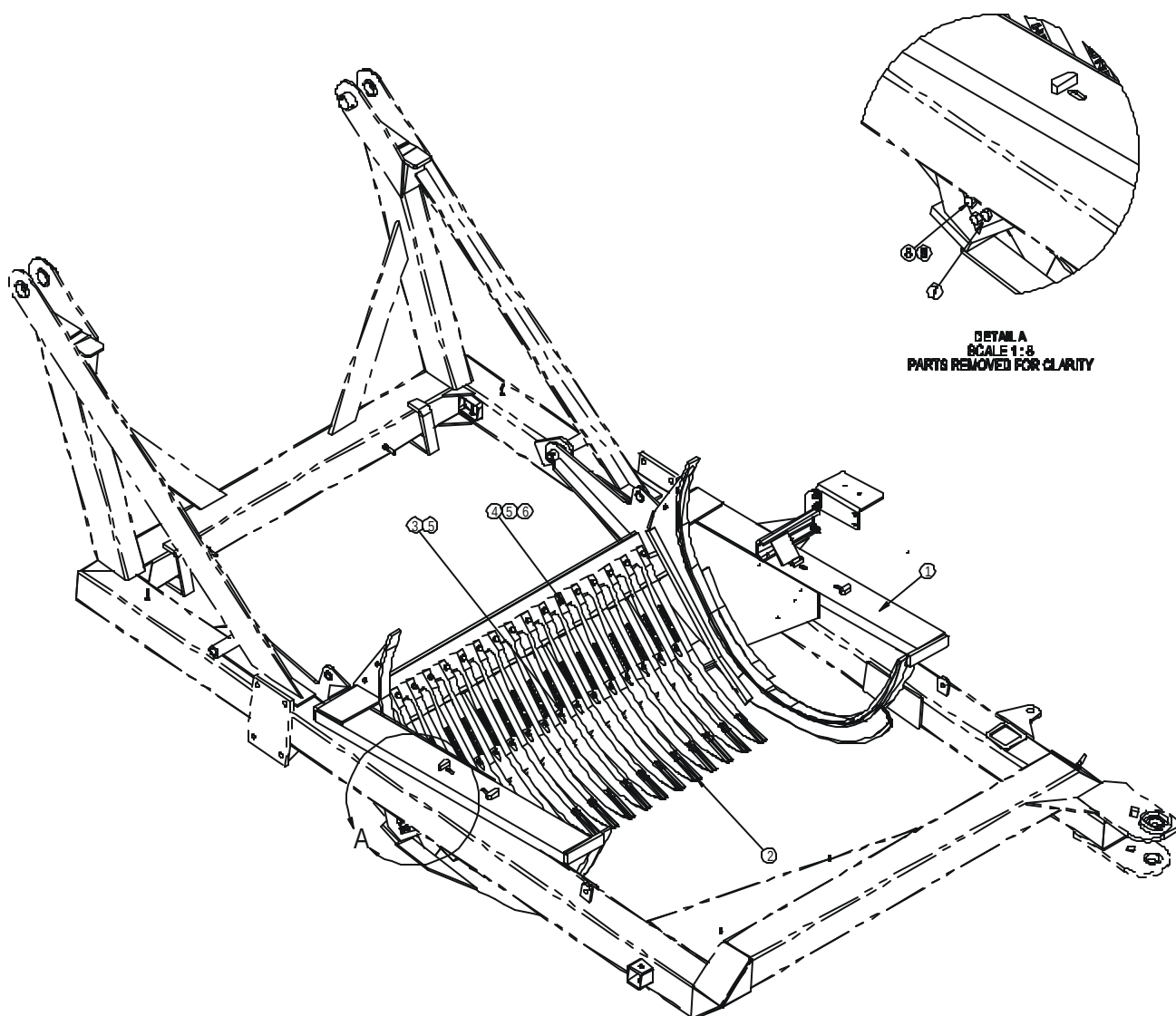
5.3 Reel Assembly (70090)

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	E2304	PIPE,SCH40,3/4x1/4L	6
2	E4548	PLT,RETAINER,SPRING	12
3	E4549	PIPE,SMLS,1x.188x3-1/4L	6
4	E4559	PLT,R,1/2x1/2x1	2
5	E4626	PIPE,SCH40,3/4x11/16L	6
6	30138	SPRING,REEL	12
7	31022	BOLT,HEX,1/2X3,UNC,GR8,ZP	12
8	31642	BOLT,CARR,5/8X5,UNC,GR5,ZP	6
9	31646	NUT,NYLOCK,9/16,UNC,GRC,ZP	6
10	32373	DRV,BRG,PILLOW-BLOCK,2-7/16	2
11	70094	DRIVE_ARM,REEL	1
12	70095	IDLER,ARM,REEL	1
13	70096	TUBE,ARM,REEL	1
14	70097	ARM,REEL,7	2
15	70105	BATT,REEL,7	3
16	70106	WHEEL,BOGIE,COMPLETE	6
17	31644	BOLT,HEX,9/16X4-1/2,UNC,G R8,ZP	6
18	31612	NUT,STOVER,1/2,UNC,ZP	18
19	30207	ZERK,1/4-28,GF641,STRAIGHT	2



5.4 Apron Assembly (70081)

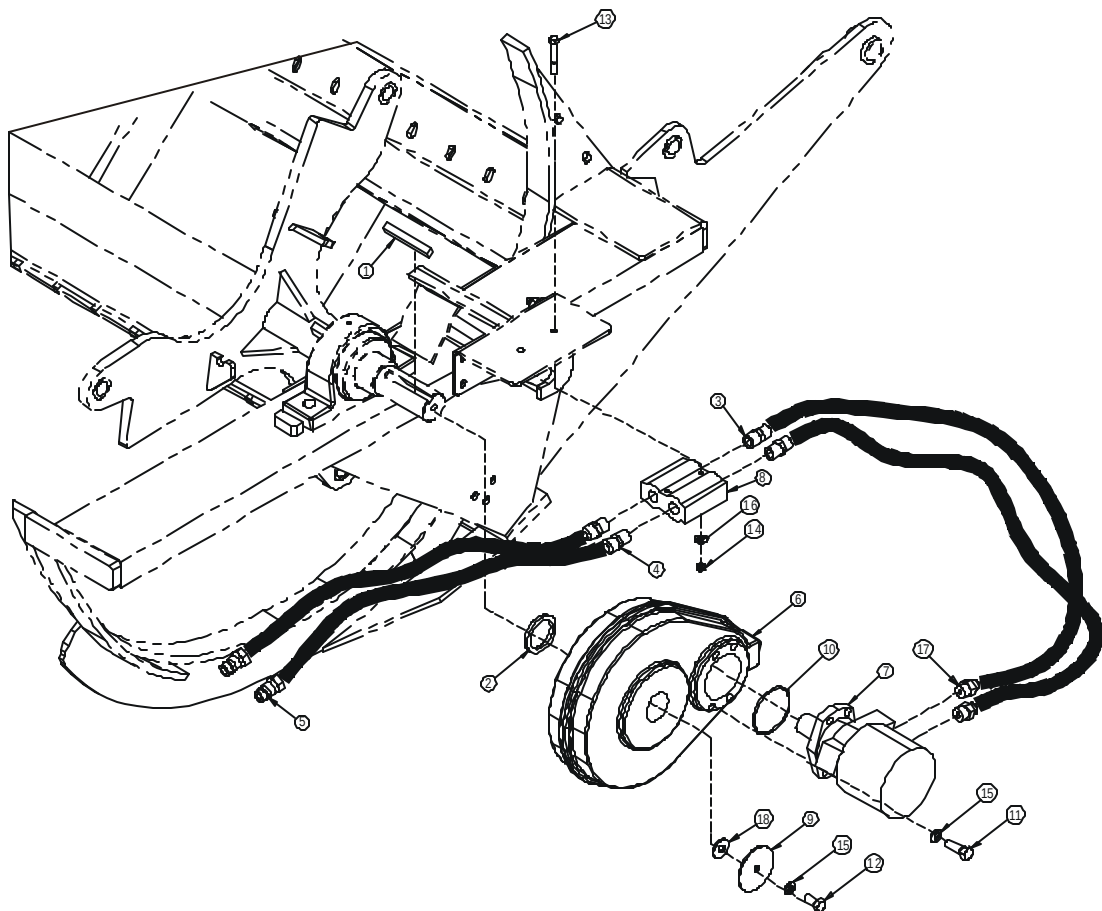
ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	70200	APRON,WLDT,6	1
2	32466M	TYNE,APRON	17
3	31024	BOLT,HEX,1/2X3-1/2,UNC,GR8,ZP	17
4	31019	BOLT,HEX,1/2X2-1/2,UNC,GR8,ZP	17
5	31647	NUT,NYLOCK,1/2,UNC,GRC,ZP	34
6	31236	WASHER,FLAT,1/2,ZP	17
7	E5346	STOP,APRON,DBL	4
8	31070	BOLT,HEX,1/2X2,UNC,GR5,ZP	6
9	31173	NUT,NYLOCK,1/2,UNC,ZP	6



6.0 Hydraulic System

6.1 Motor Hydraulics (70083)

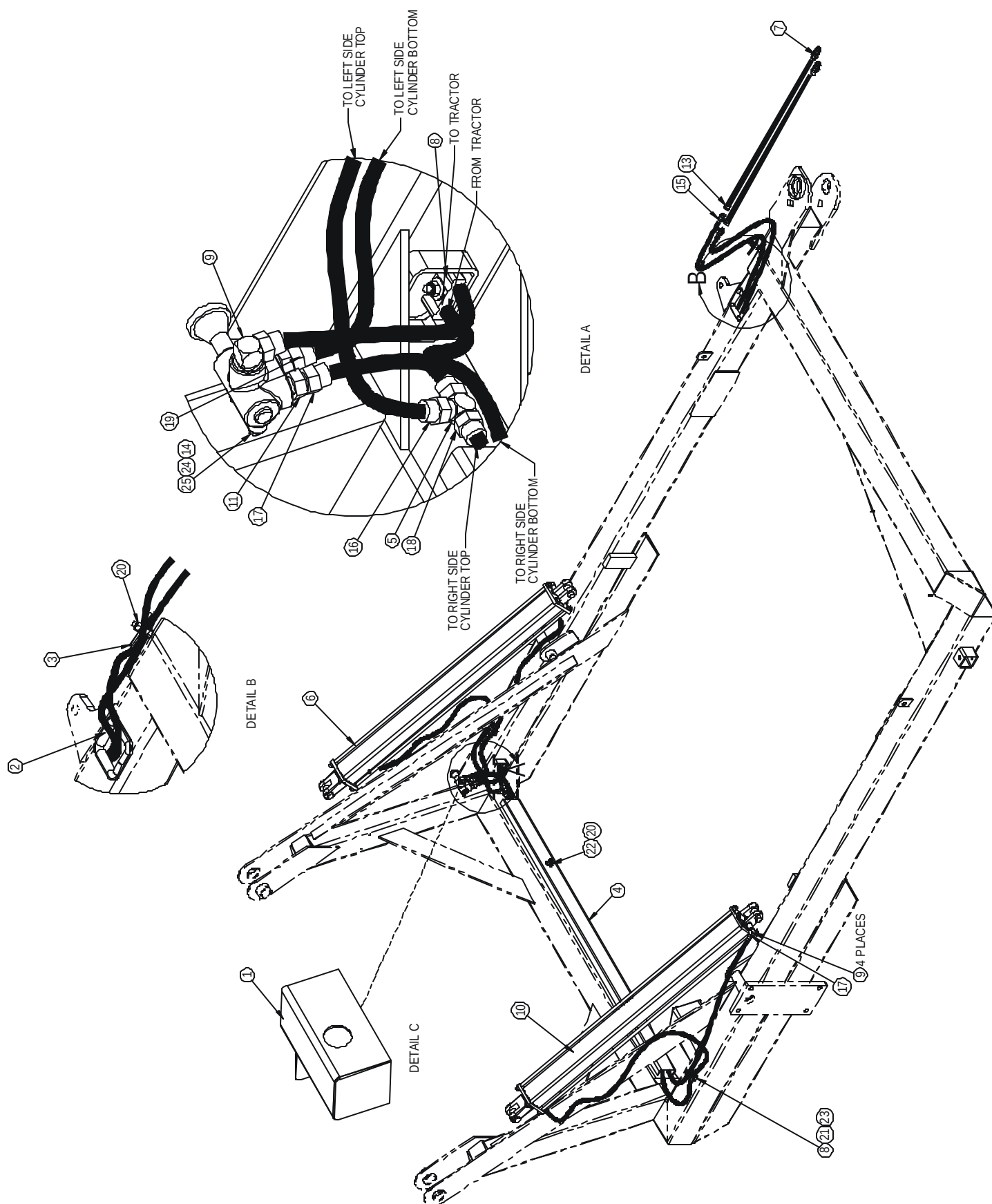
ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	E3045	KEY, SHAFT, DRIVE, REEL	1
2	E4571	PIPE, SMLS, 2-5/8x.281x 1/4L	1
3	30586	HYD, HOSE, 1/2X20, 8FJX-8MP, 1W	2
4	31784	HYD, HOSE, 1/2X164, 8MP-8MP, 1W	2
5	30209	HYD, FIT, PIONEER, MALE, 8FP	2
6	32209	DRV, GEARBOX, COMPLETE, 590	1
7	32644	HYD, MOTOR, 18.3, 316RPM, 3000PSI	1
8	32660	HYD, VALVE, CUSHION	1
9	32734	WASHER, FLAT, 3-1/8ODX1/2	1
10	32786	O-RING, #151	1
11	31016	BOLT, HEX, 1/2X1-1/2, UNC, GR5, ZP	4
12	31069	BOLT, HEX, 1/2X1, UNC, GR5, ZP	1
13	31048	BOLT, HEX, 5/16X2-1/2, UNC, GR5, ZP	2
14	31177	NUT, NYLOCK, 5/16, UNC, ZP	2
15	31244	WASHER, LOCK, 1/2, ZP	5
16	31239	WASHER, FLAT, 5/16, ZP	2
17	30204	HYD, FIT, ADAPTER, 10MB-8MJ	2
18	31236	WASHER, FLAT, 1/2, ZP	1



6.2 Cylinder Hydraulics (70102)

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	70197	COVER, VALVE, SAFETY	1
2	E4247	ELEC, LOOM, SPLIT, 3/4X18	1
3	E5553	CLAMP, HOSE, HYD	1
4	E5563	GUARD, LINE, HYDRAULIC	1
5	30151	HYD, FIT, TEE, 8MJ	1
6	30160	HYD, CYL, 4.5X42, 2.0, 3/4-16UNF ORB, LHS	1
7	30209	HYD, FIT, PIONEER, MALE, 8FP	2
8	30210	HOSECLAMP, 1/2	5
9	30211	HYD, FIT, ELBOW, 8MB-8MJ90	5
10	30213	HYD, CYL, 4.5X42, 2.0, 3/4-16UNF ORB, RHS	1
11	30215	HYD, FIT, ADAPTER, 8MB-8MJ	2
12	30294*	SCREW, TEK, 1/4X1	2
13	30159	HYD, HOSE, 1/2X96, 8MP-8MJ, 1W	2
14	31922	HYD, VALVE, SELECTOR, .08, KNOB, RS	1
15	30139	HYD, HOSE, 1/2X169, 8FJX-8FJX, 1W	2
16	32972	HYD, HOSE, 3/8X66, 8FJX-1W	1
17	31791	HYD, HOSE, 3/8X162, 8FJX-1W	1
18	31792	HYD, HOSE, 3/8X156, 8FJX-1W	1
19	32054	HYD, HOSE, 3/8X54, 8FJX-1W	1
20	31173	NUT, NYLOCK, 1/2, UNC, ZP	3
21	31177	NUT, NYLOCK, 5/16, UNC, ZP	3
22	31236	WASHER, FLAT, 1/2, ZP	2
23	31239	WASHER, FLAT, 5/16, ZP	3
24	31346	WASHER, LOCK, 5/16, ZP	2
25	31533	BOLT, HEX, 5/16X3/4, UNC, GR5, ZP	2

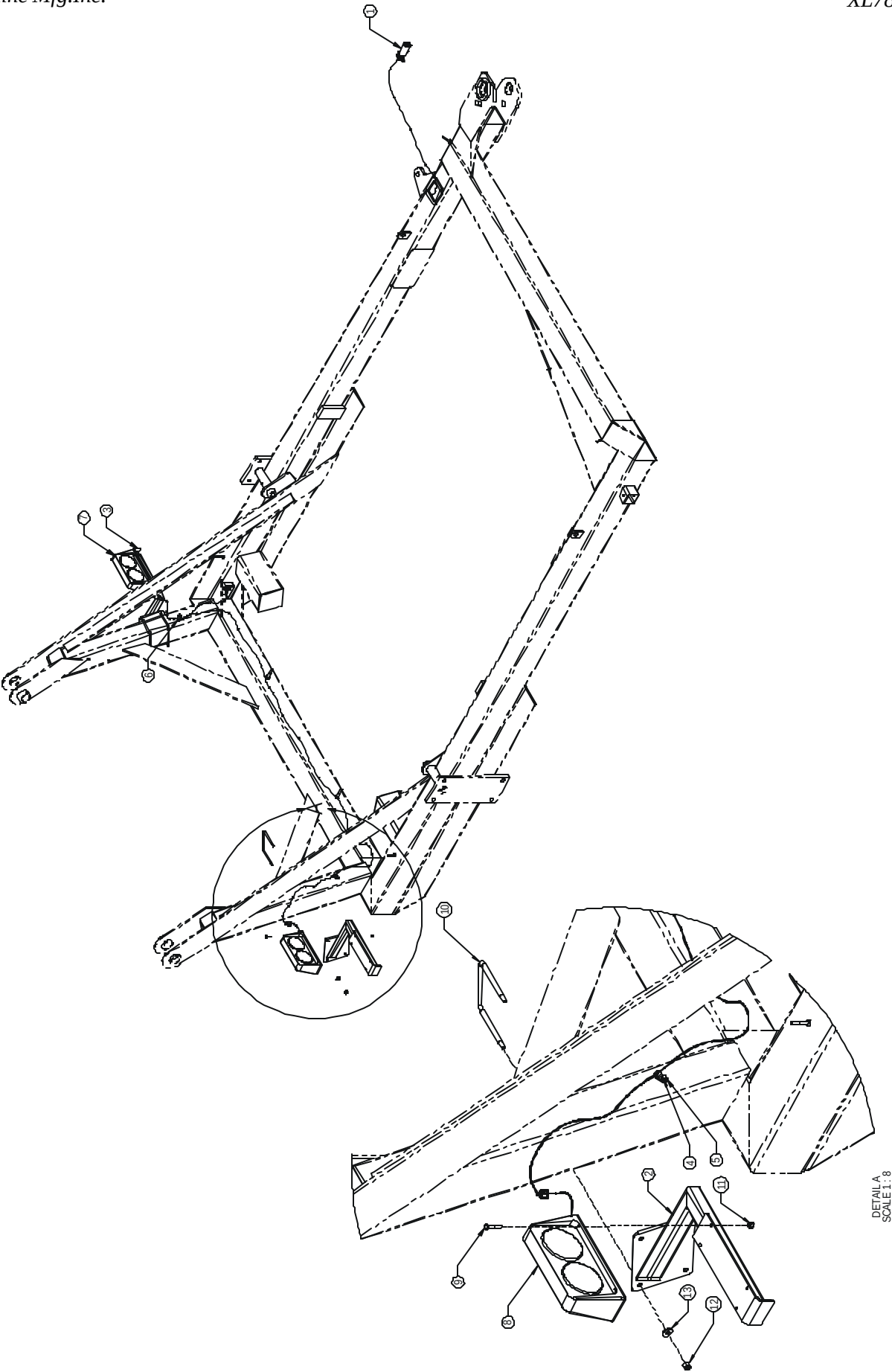
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6.3 Light Kit (48106)

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	48105	ELEC,HARNESS,LIGHTS,XL78	1
2	48109	BRACKET,LIGHT,RIGHT,RP	1
3	48110	BRACKET,LIGHT,LEFT,RP	1
4	30294	SCREW,TEK,1/4X1	2
5	31649	ELEC,CLAMP,CABLE,1/2	1
6	31650	ELEC,CLAMP,CABLE,3/4	1
7	30526	ELEC,LIGHT,RED&AMBER,LEFT	1
8	30527	ELEC,LIGHT,RED&AMBER,RIGHT	1
9	31535	BOLT,HEX,1/4X1-1/2,UNC,GR5,ZP	8
10	31686	BOLT,U,SQ,3/8-16,6x5	4
11	31174	NUT,NYLOCK,1/4,UNC,ZP	8
12	31176	NUT,NYLOCK,3/8,UNC,ZP	8
13	31351	WASHER,FLAT,3/8,ZP	8
14	31613*	TIE,CABLE,NYLON,BLACK,11 1/2"	5
15	E3794*	ELEC,LOOM,1/2,SPLIT,CORRUGATED	2

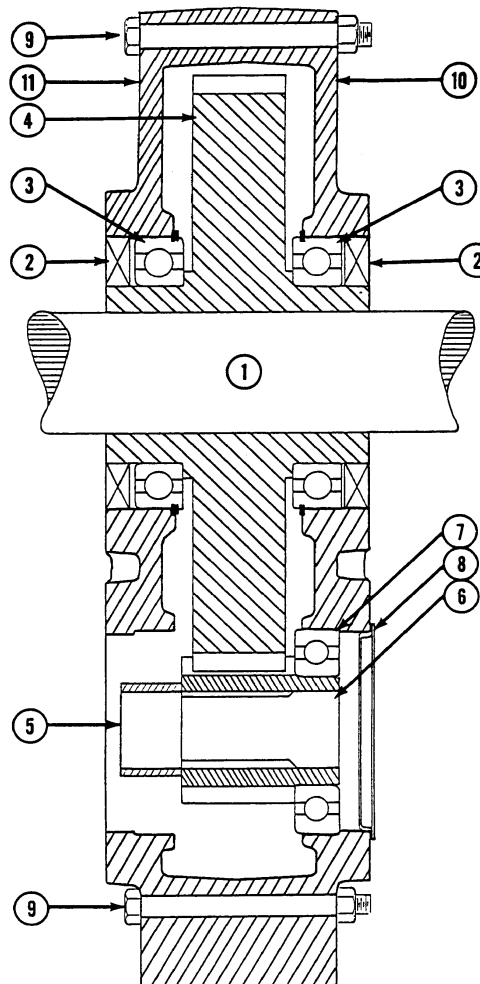
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DETAIL A
SCALE 1:8

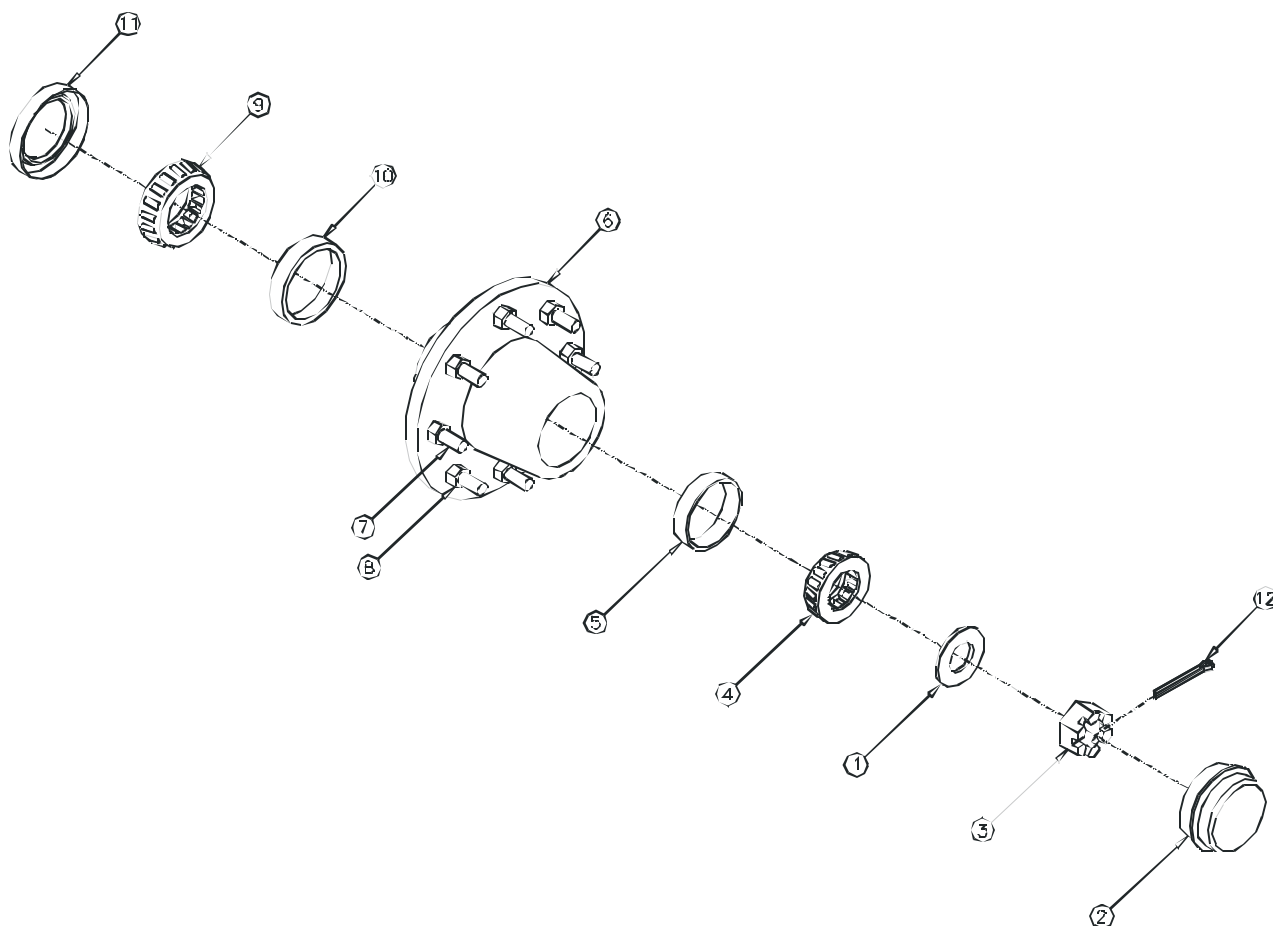
6.4 590 Parallel Drive Gearbox

ITEM	PART NO.	DESCRIPTION	QTY
1	E4520	SHAFT,DRIVE,ARM,REEL	1
2	32210	SEAL,CR 29585	2
3	32211	BEARING,6015NR	2
4	32216	DRV,GEAR,58 TOOTH	1
5	32214	SPACER,1821	1
6	32215	DRV,GEAR,PINION,SPLINED BORE	1
7	32212	BRG,1418	2
8	32213	COVER,1154	1
9	31050	BOLT,HEX,5/16X3,UNC,GR5,ZP	12
10	31177	NUT,NYLOCK,5/16,UNC,ZP	12
11	32218	HYD,CASE,PLAIN SIDE,1/2	1
12	32217	HYD,SIDE,MOTOR,1/2	1



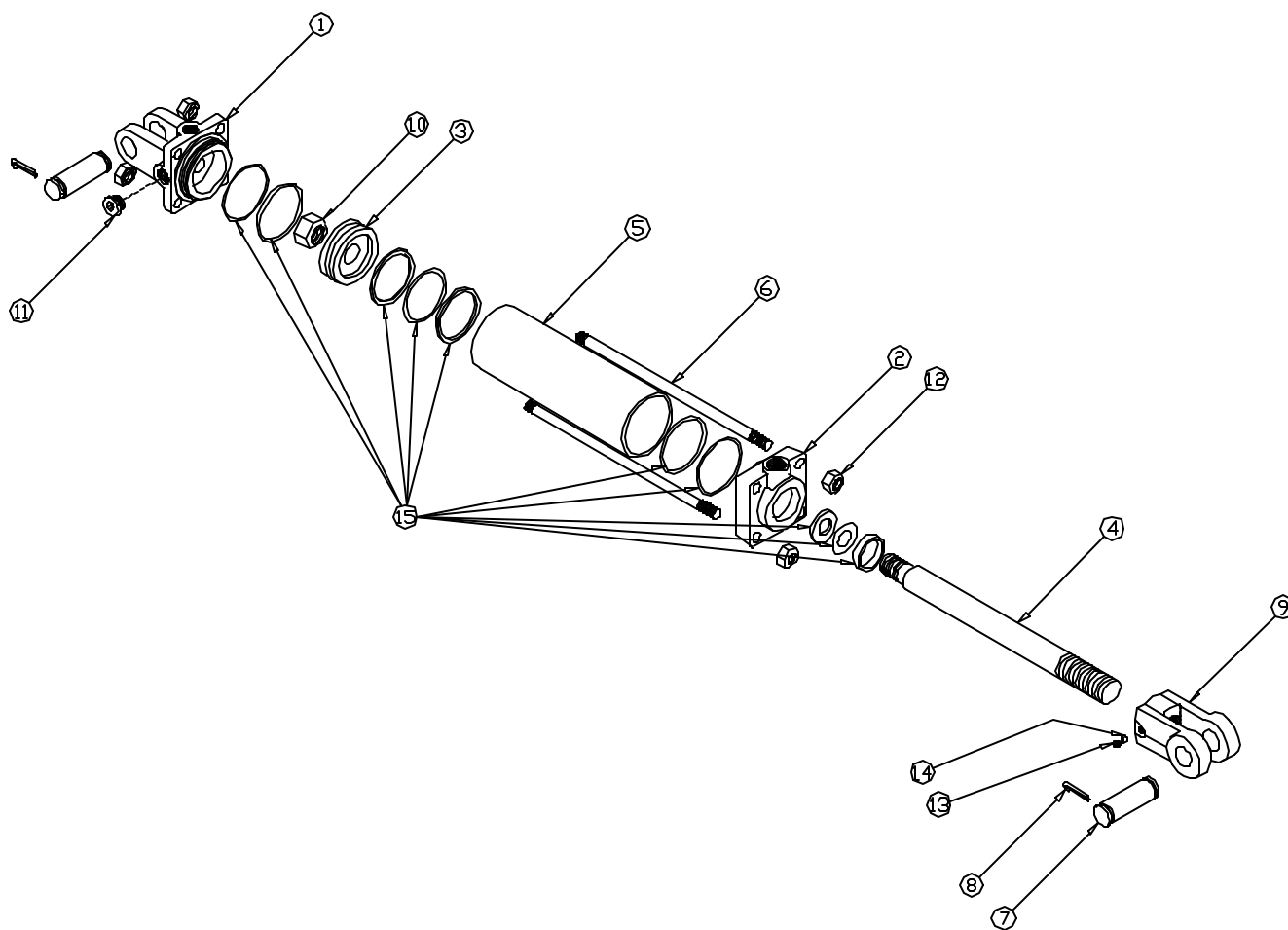
6.5 H817 Hub

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	30223	WASHER,FLAT,1IDX2ODX.2385	1
2	32313	SUSP,CAP,DUST,DC26	1
3	32314	NUT,CASTELLATED,1-1/4	1
4	32315	SUSP,BRG,OUTER,LM501349	1
5	32316	BRG,RACE,OUTER,LM501310	1
6	32318	SUSP,HUB,H817	1
7	32320	SUSP,STUD,WHEEL,5/8	8
8	32319	SUSP,NUT,WHEEL,5/8	8
9	32321	SUSP,BRG,387AS	1
10	32322	SUSP,CUP,INNER,#301110 382A	1
11	32323	SUSP,SEAL,SE42 (CR 29952)	1
12	31183	PIN,COTTER,3/16X2	1



6.6 4-1/2x42 Cylinder

ITEM	PART NO.	DESCRIPTION	QTY
1	30175	HYD,CYL,CAP,CLEVIS,4.5 ORB,1.25 PIN	1
2	30176	HYD,CYL,CAP,ROD,4-1/2X2,3/4 ORB	1
3	30177	HYD,CYL,PISTON,4-1/2	1
4	30178	HYD,CYL,ROD,2X51-3/4	1
5	30179	HYD,CYL,TUBE,4-1/2X51-9/16	1
6	30180	HYD,CYL,5/8X51-9/16"	4
7	30181	HYD,CYL,PIN,1-1/4,H2094	2
8	30182	PIN,COTTER,HAMERLCK,3/16X1-1/4	4
9	31796	HYD,CAP,CLEVIS,4-1/2X42 HARD	1
10	30192	NUT,HEX,1-1/4,UNF,GRB,ZP	1
11	30193	HYD,FIT,PLUG,3/4-16 UNF STRTHD	1
12	30236	NUT,HEX,5/8,UNC,GR5,ZP	8
13	30239	SETSCREW, SOCKET, 3/8X1/2 KNURL	1
14	30261	LOCK,THREAD,NYLOCK	1
15	30425	KIT,REPAIR,4 1/2	1



7.0 Parts Index

Part No.	Description	Page #	Item #
30040	RIVET,ST,3/16X.815,.625 HEAD	18	16
30135	DECAL,DANGER,SHUT OFF MACH	14	4
30138	SPRING,REEL	22	6
30139	HYD,HOSE,1/2X169,8FJX-8FJX,1W	26	15
30151	HYD,FIT,TEE,8MJ	26	5
30159	HYD,HOSE,1/2X96,8MP-8MJ,1W	26	13
30160	HYD,CYL,4.5X42,2.0,3/4-16UNF	26	6
30161	RIVET,ST,5/32X.665,.312 HEAD	18	17
30175	HYD,CYL,CLEVIS,CAP,4.5 ORB,1.25	32	1
30176	HYD,CYL,CAP,ROD,4-1/2X2,3/4ORB	32	2
30177	HYD,CYL,PISTON,4-1/2	32	3
30178	HYD,CYL,ROD,2X51-3/4	32	4
30179	HYD,CYL,TUBE,4-1/2X51-9/16	32	5
30180	HYD,CYL,5/8X51-9/16	32	6
30181	HYD,CYL,PIN,1-1/4,H2094	32	7
30182	PIN,COTTER,HAMMERLCK,3/16X	32	8
30192	NUT,HEX,1-1/4,UNF,GRB,ZP	32	10
30193	HYD,FIT,PLUG,3/4-16 UNF STRTHD	32	11
30204	HYD,FIT,ADAPTER,10MB-8MJ	25	17
30206	HYD,HOSE,HOLDER,1/2	18	14
30207	ZERK,1/4-28,GF641,STRAIGHT	20	25
30207	ZERK,1/4-28,GF641,STRAIGHT	22	19
30208	PLT,SERIAL #	14	10
30208	PLT,SERIAL #	18	15
30209	HYD,FIT,PIONEER,MALE,8FP	25	5
30209	HYD,FIT,PIONEER,MALE,8FP	26	7
30210	HOSECLAMP,1/2	26	8
30211	HYD,FIT,ELBOW,8MB-8MJ90	26	9
30213	HYD,CYL,4.5X42,2.0,3/4-16UNF ORB,RHS	26	10
30215	HYD,FIT,ADAPTER,8MB-8MJ	26	11
30223	WASHER,FLAT,1IDX2ODX.2385	31	1
30236	NUT,HEX,5/8,UNC,GR5,ZP	32	12
30239	SETSCREW,SOCKET,3/8X1/2KNURL	32	13
30261	LOCK, THREAD, NYLON	32	14
30285	DECAL,DANGER,TO PREVENT	14	3
30294	SCREW,TEK,1/4X1	26	12
30294	SCREW,TEK,1/4X1	28	4
30295	PAINT,ORANGE	18	29
30296	PAINT,CATALYST	18	30
30425	KIT,REPAIR,4-1/2	32	15
30526	ELEC,LIGHT,RED&AMBER,LEFT	28	7
30527	ELEC,LIGHT,RED&AMBER,RIGHT	28	8
30577	DECAL,RED REFL,2X9	14	2
30578	DECAL,AMBER REFL,2X9	14	6
30586	HYD,HOSE,1/2X20,8FJX-8MP,1W	25	3
31007	BOLT,CARR,1/2X1-1/2,UNC,GR2,ZP	18	18
31016	BOLT,HEX,1/2X1-1/2,UNC,GR5,ZP	25	11
31019	BOLT,HEX,1/2X2-1/2,UNC,GR8,ZP	24	4
31022	BOLT,HEX,1/2X3,UNC,GR8,ZP	22	7

31023	BOLT,HEX,1/2x3-1/2,UNC,GR5,ZP	20	16
31024	BOLT,HEX,1/2x3-1/2,UNC,Gr8,ZP	24	3
31037	BOLT,HEX,1X1-1/2,UNC,GR5,ZP	20	23
31038	BOLT,HEX,1X7-1/2,UNC,GR5,ZP	18	19
31040	BOLT,HEX,3/4X2-1/2,UNC,GR5,ZP	18	20
31048	BOLT,HEX,5/16X2-1/2,UNC,GR5,ZP	25	13
31050	BOLT,HEX,5/16X3,UNC,GR5,ZP	30	9
31054	BOLT,HEX,5/8X2-1/2,UNC,GR5,ZP	20	15
31055	BOLT,HEX,5/8X2-1/2,UNC,GR8,ZP	20	14
31069	BOLT,HEX,1/2X1,UNC,GR5,ZP	25	12
31070	BOLT,HEX,1/2X2,UNC,GR5,ZP	24	8
31162	NUT,HEX,1,UNC,GR5,ZP	18	34
31167	NUT,HEX,3/4,UNC,GR5,ZP	18	21
31169	NUT,STOVER,5/8,UNC,GR5,ZP	20	17
31172	NUT,NYLOCK,1,UNC,ZP	18	22
31173	NUT,NYLOCK,1/2,UNC,ZP	18	23
31173	NUT,NYLOCK,1/2,UNC,ZP	20	19
31173	NUT,NYLOCK,1/2,UNC,ZP	24	9
31173	NUT,NYLOCK,1/2,UNC,ZP	26	20
31174	NUT,NYLOCK,1/4,UNC,ZP	28	11
31175	NUT,NYLOCK,3/4,UNC	18	24
31176	NUT,NYLOCK,3/8,UNC,ZP	20	20
31176	NUT,NYLOCK,3/8,UNC,ZP	28	12
31177	NUT,NYLOCK,5/16X2-1/2,UNC,ZP	25	14
31177	NUT,NYLOCK,5/16,UNC,ZP	26	21
31177	NUT,NYLOCK,5/16,UNC,ZP	30	10
31183	PIN,COTTER,3/16X2	31	12
31235	1" FLAT WASHER	18	36
31236	WASHER,FLAT,1/2,ZP	18	25
31236	WASHER,FLAT,1/2,ZP	24	6
31236	WASHER,FLAT,1/2,ZP	25	18
31236	WASHER,FLAT,1/2,ZP	26	22
31239	WASHER,FLAT,5/16,ZP	25	16
31239	WASHER,FLAT,5/16,ZP	26	23
31243	WASHER,LOCK,1,ZP	18	26
31243	WASHER,LOCK,1,ZP	18	33
31243	WASHER,LOCK,1,ZP	20	24
31244	WASHER,LOCK,1/2,ZP	25	15
31246	WASHER,LOCK,3/4,ZP	18	27
31346	WASHER,LOCK,5/16,ZP	26	24
31351	WASHER,FLAT,3/8,ZP	28	13
31471	1"X3" HEX BOLT, UNC,GR5	18	35
31532	NUT,WING,1/4,UNC,ZP	18	28
31533	BOLT,HEX,5/16X3/4,UNC,GR5,ZP	26	25
31535	BOLT,HEX,1/4X1-1/2,UNC,GR5,ZP	28	9
31590	CHAIN,SAFETY,ASAE,10100LB,5'4"	18	37
31612	NUT,STOVER,1/2,UNC,ZP	22	18
31613	TIE,CABLE,NYLON,BLACK,11 1/2"	28	14
31642	BOLT,CARR,5/8X5,UNC,GR5,ZP	22	8
31644	BOLT,HEX,9/16X4-1/2,UNC,GR8,ZP	22	17
31646	NUT,NYLOCK,9/16,UNC,GRC,ZP	22	9

31647	NUT,NYLOCK,1/2,UNC,GRC,ZP	24	5
31649	ELEC,CLAMP,CABLE,1/2	28	5
31650	ELEC,CLAMP,CABLE,3/4	28	66
31671	NUT,NYLOCK,5/8,UNC,GRC,ZP	20	18
31686	BOLT,U,SQ,3/8-16,6X5	28	10
31784	HYD,HOSE,1/2X164,8MP-8MP,1W	25	4
31791	HYD,HOSE,3/8X162,8FJX-1W	26	17
31792	HYD,HOSE,3/8X156,8FJX-1W	26	18
31796	HYD,CYL,CLEVIS,4-1/2X42 HARD	32	9
31800	JACK,5000LBX15,SQ MNT,SIDEWI	18	13
31830	BOLT,HEX,3/8X2-1/4,UNC,GR5,ZP	20	21
31922	HYD,VALVE,SELECTOR,08,KNOB,R	26	14
31926	WHEEL,COMPLETE,21.5LX16.1,8,I	18	12
32054	HYD,HOSE,3/8X54,8FJX-1W	26	19
32075	WASHER,FLAT,1-1/2X11/16X3/16	20	22
32209	DRV,GEARBOX,COMPLETE,590	25	6
32210	SEAL,CR 29585	30	2
32211	BEARING,6015NR	30	3
32212	BRG,1418	30	7
32213	COVER,1154	30	8
32214	SPACER,1821	30	5
32215	DRV,GEAR,PINION,SPLINED BORE	30	6
32216	DRV,GEAR,58 TOOTH	30	4
32217	HYD,SIDE,MOTOR,1/2	30	12
32218	HYD,CASE,PLAIN SIDE,1/2	30	11
32313	SUSP,CAP,CUST,DC26	31	2
32314	NUT,CASTELLATED,1-1/4	31	3
32315	SUSP,BRG,OUT,LM501349	31	4
32316	BRG,RACE,OUTER,LM501310	31	5
32318	SUSP,HUB,H817	31	6
32319	SUSP,NUT,WHEEL,5/8	31	8
32320	SUSP,STUD,WHEEL,5/8	31	7
32321	SUSP,BRG,387AS	31	9
32322	SUSP,CUP,INNER,#301110 382A	31	10
32323	SUSP,SEAL,SE42 (CR 29952)	31	11
32373	DRV,BRG,PILLOW-BLOCK,2-7/16	22	10
32466	TYNE,APRON	24	2
32644	HYD,MOTOR,18.3,316RPM,3000PSI	25	7
32660	HYD,VALVE,CUSHION	25	8
32734	WASHER,FLAT,3-1/8ODX1/2	25	9
32786	O-RING,#151	25	10
32937	DECAL,WARNING,DO NOT RAISE	14	7
32972	HYD,HOSE,3/8X66,8FJX-1W	26	16
32981	DECAL,PIMA	14	11
48105	ELEC,HARNESS,LIGHTS,XL78	28	1
48106	KIT,LIGHT,XL78	18	10
48109	BRACKET,LIGHT,RIGHT,RP	28	2
48110	BRACKET,LIGHT,LEFT,RP	28	3
70002	ARM,HITCH	20	1
70003	HITCH,CLEVIS,DOUBLE,ANGLE	18	2
70025	PIN,DUMP	20	2

70027	PIN,SIDE,APRON	20	3
70051	GUARD,CYLINDER, DUMP, RIGHT	18	3
70052	GUARD,CYLINDER, DUMP, LEFT	18	4
70083	HYDRAULIC MOTOR ASSEMBLY	18	5
70089	BUCKET,7	20	4
70090	REEL,COMPLETE,7	20	5
70091	DUMP,BUCKET,7	20	6
70094	DRIVE,ARM,REEL	22	11
70095	IDLER,ARM,REEL	22	12
70096	TUBE,ARM,REEL	22	13
70097	ARM,REEL,7	22	14
70099	APRON,COMPLETE,7	20	7
70102	HYD,CYL,ASSEMBLY,7	18	6
70103	FRAME,WLDT,7	20	8
70105	BATT,REEL,7	22	15
70106	WHEEL,BOGIE,COMPLETE	22	16
70121	AXLE,COMPLETE,7	18	7
70134	ASSEMBLY,PRE-PAINT,7	18	1
70179	TOOL,ROCKPICKER	18	8
70185	DECALS,HIGHLINE,XL78	18	32
70190	HITCH,PIN	20	9
70197	COVER,VALVE,SAFETY	26	1
70200	APRON,WLDT,6	24	1
70300	HITCH,STOP,ASSY	20	10
91609	PIN,HITCH,5/32X3	20	13
92028	SIGN,SLOWMOVING,S276.5	18	11
92598	DECAL,HIGHLINE,XL78,FRONT	14	5
92599	DECAL,HIGHLINE,XL78,BACK	14	1
92600	DECAL,HIGHLINE,XL78,LEFT	14	8
92601	DECAL,HIGHLINE,XL78,RIGHT	14	12
E2240	WASHER,HITCH,BOTTOM	20	11
E2304	PIPE,SCH40,3/4X1/4L	22	1
E3045	KEY,SHAFT,DRIVE,REEL	25	1
E3794	ELEC,LOOM,1/2,SPLIT,CORRUGAT	28	15
E4247	ELEC,LOOM,SPLIT,3/4X18	26	2
E4520	SHAFT,DRIVE,ARM,REEL	30	1
E4548	PLT,RETAINER,SPRING	22	2
E4549	PIPE,SMLS,1X.188X3-1/4L	22	3
E4550	PLT,STOP,ARM,DUMP	20	12
E4559	PLT,R,1/2X1/2X1	22	4
E4571	PIPE,SMLS,2-5/8X.281X1/4L	25	2
E4626	PIPE,SCH40,3/4X11/16L	22	5
E4638	PLT,LOCK,TRANSPORT	18	9
E5047	MANUAL,XL78-B	18	31
E5073	DECAL,RP,CYLINDER	14	9
E5346	STOP,APRON,DBL	24	7
E5553	CLAMP,HOSE,HYD	26	3
E5563	GUARD,LINE,HYDRAULIC	26	4

8.0 Specifications

Weight:	Approximately 7250 lbs (3290 kg)
Total Length:	17'3"
Total Width:	12'6"
Total Height:	5'8"
Picking Width:	84"
Dumping Height:	Approximately 90"
Ground Clearance:	11"
Maximum Capacity:	3.3 cubic yards (2.52 m ³)
Tires:	21.5L x 16.1 Softrac Tires
Horsepower Required:	90-150 Horsepower 18 gpm flow required
Hydraulic Outlets:	2
Hydraulic Pressure:	3000 psi (20,680 kPa)

Dealer Information

Dealer: _____

Address: _____

City: _____

Province / State: _____

Postal Code / Zip Code: _____

Phone: _____



Identification Numbers

Model Number: _____

Serial Number: _____

Dealer Checklist

Rock Picker Dealer Checklist

Checked	Check List Item
	Run the reel and raise and lower the bucket to ensure that all components run freely without binding and are free of excessive impact. Check all hydraulic components for leaks and test hydraulic line lock.
	Tail/warning lights installed with machine.
	SMV sign installed.
	Tongue pivot lock pin with tether installed.
	Apron transport lock bars installed.
	Ensure hitch arm moves freely from working position to transport position and that the hitch wedge can be installed in both positions.
	Ensure all grease points are lubricated.
	Check tire pressure and adjust as required.(as specified on tire).
	Cycle all cylinders a minimum of three times, check for leaks and clearance problems.
	Hydraulic motors to be operated and checked for leaks and free movement.
	Check tire hubs for proper bearing adjustments.
	Owners manual shipped with machine.