



212 North Evans Road; Evansdale, Iowa 50707; Phone (319)236-7977, Fax (319)236-7980

Owners Manual

VIKING-CIVES MW SERIES POWER REVERSING PLOW

Unit Serial Number: _____



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WARRANTY POLICY

Viking Cives, USA warrants products of its manufacture against defects in workmanship and material for a period of one year, from the date of shipment to the customer. In consequence of this warranty, any component part or parts of such products proving defective within the above specified time will be repaired or replaced F.O.B. Factory. Providing such parts are returned, transportation prepaid, to the factory and found defective by Viking Cives, USA.

This warranty will not apply to any product which has been repaired or altered outside of Viking Cives, USA factory in any way, so as in Viking Cives, USA's judgement, to affect its stability or reliability, nor which has been subject to misuse or accident.

The obligations of Viking Cives, USA under this warranty are limited to the replacement of defective parts. Such obligations are exclusive and in lieu of all other remedies, warranties, guarantees of liabilities, expressed or implied, with respect to each product delivered, hereunder, arising by law or otherwise (including without limitation any obligation or liability by Viking Cives, USA arising from negligence or with respect to fitness, merchantability, loss of use, revenue, or profit, or consequential damages or injuries).

This limited warranty shall not be extended, altered, or varied except by a written instrument signed by Viking Cives, USA.

Viking Cives, USA assumes no responsibility for engines, electrical equipment or any other equipment and accessories not manufactured by Viking Cives, USA beyond the warranty of the manufacturer of such equipment of accessories.

All warranty work done on Viking Cives USA equipment must have prior authorization from Viking Cives, USA along with a "Return Goods Authorization" number. All labor and parts issued by user for Viking Cives, USA warranty without an authorization number and a signed authorization warranty form will be at the users own cost.

ORDERING PARTS

Delays and errors can be eliminated when ordering instructions are followed correctly.

1. Place orders direct with Viking-Cives/nearest dealer.
2. State Company name, address, and postal/zip code.
3. Give the exact model and serial number of the equipment/unit (stamped on the unit identification plate.)
4. Furnish part number, description and quantities required.
5. Print or type order clearly.
6. Give specific shipping instructions.



VIKING-CIVES (USA) – RR2, Box 36-1/2; Harrisville, New York 13648; (315) 543-2321, (315) 543-2366 Fax

VIKING-CIVES (USA) Midwest Division – 212 North Evans Road; Evansdale, Iowa 50707; (319) 236-7977, (319) 236-7980 Fax

VIKING-CIVES (USA) – RR4, Box 1120; Mount Forest, Ontario, Canada N0G 2L0; (519) 323-4433, (519) 323-4608 Fax

Pg 2



212 North Evans Road; Evansdale, Iowa 50707; Phone (319)236-7977, Fax (319)236-7980

WARRANTY REQUEST PROCEDURE

All repairs considered for warranty that are performed outside of Viking Cives, USA; require prior written authorization from Viking Cives, USA. Failure to obtain written warranty authorization prior to repairs may result in the rejection of the warranty claim. **To obtain warranty consideration one must provide all required Viking Cives, USA with unit information including date of manufacture and serial numbers.** In most cases this information is easily obtained from the "Shipped Unit Tag" (located in most cases inside the driver's side door) and/or individual unit serial tag.

(A) To obtain Parts Warranty Consideration:

- (1) Contact Viking Cives, USA customer service to obtain a Return Goods Authorization (RGA) number. Any product arriving at Viking Cives, USA without a RGA number will be rejected and returned to the sender at his or her own expense.
- (2) Goods are to be shipped prepaid to Viking Cives, USA, and Mount Forest, Ontario Canada. **All items should be clearly marked with the appropriate RGA number.**
- (3) When a replacement item is shipped to replace a defective part for warranty consideration the following additional steps will occur:
 - a) An invoice will be generated for the value of the replacement item(s).
 - b) The defective part(s) must be returned (prepaid) to Viking Cives, USA.
 - c) Upon receiving the defective part(s) Viking Cives, USA will issue and process a Discrepant Material Report (DMR). Once the evaluation of the DMR report is complete and the parts are deemed warranty, a credit will be issued against the outstanding invoice. **If the part(s) are deemed Non-warranty the invoice will remain outstanding to be paid to Viking Cives, USA.** Any part(s) to be returned to the customer will be at his or her own expense.

(B) To obtain Labor Parts Repair Warranty Consideration:

In the event that repairs are required outside of Viking Cives, USA facility that may be considered for warranty the following steps must occur. **Notification of Viking Cives, USA customer service must take place prior to the start of any repairs.**

- (1) Contact Viking Cives, USA customer service to obtain a Warranty Claim Form (WCF) and warranty authorization number.
- (2) Fill out all required WCF information and fax or mail the completed form to Viking Cives, USA, attention Customer Service Department.
- (3) Once the WCF report has been reviewed warranty authorization will be granted or denied. **NOTE: Viking Cives, USA warranty labor rates will apply unless specifically determined otherwise.** Any part(s) involved in a WCF request must follow the Parts Warranty Consideration procedures.



212 North Evans Road; Evansdale, Iowa 50707; Phone (319)236-7977, Fax (319)236-7980

TABLE OF CONTENTS

<u>DESCRIPTION</u>	<u>PAGE NO</u>	<u>DESCRIPTION</u>	<u>PAGE NO</u>
WARRANTY/ORDING INFO	2	<u>STANDARD EQUIPMENT CON'T</u>	
WARRANTY REQUEST PROCEDURE	3	DRAWING OF COM. SPRING HOLE POSITION	26
INTRODUCTION	5	DRAWING OF ARM ASB'Y	27
PERIODIC MAINTENANCE INSPECTION	5	COMPRESION ARM ASB'Y (11/12/01)	28
DAILY INSPECTION & LUBRICATION	5	TRIP SPRING ARM ASB'Y (5/30/00)	28
OPERATING INSTRUCTIONS	6	TRIP SPRING ARM ASB'Y (1/19/98)	29
GENERAL MOUNTING PROCEDURE	7		
		<u>OPTIONAL EQUIPMENT</u>	
<u>STEEL MOLDBOARDS:</u>	8-16	DRAWINGS OF DRIVE SWIVEL	30-32
<u>COMPRESSION ARM TRIP</u>		DRIVE SWIVEL OPTIONS	33
DRAWING OF COMP. ARM TRIP MOLDBOARD	8	DRAWING OF QUICK LOOP	34
MW36R10 MOLDBOARD ASB'Y	9	QUICK LOOP	35
MW36R11 MOLDBOARD ASB'Y	9	DRAWING OF QUICK HITCH	36
MW41R10 MOLDBOARD ASB'Y	10	QUICK HITCH COMPLETE ASB'Y	37
MW41R11 MOLDBOARD ASB'Y	10	DRAWING OF CASTER SCREW ADJUST	38
MW41R12 MOLDBOARD ASB'Y	11	CASTER SCREW ADJUST ASB'Y	39
MW48R10 MOLDBOARD ASB'Y	12	DRAWING OF MUSHROOM SCREW	40
MW48R11 MOLDBOARD ASB'Y	12	MUSHROOM SCREW ASB'Y	41
MW48R12 MOLDBOARD ASB'Y	13	DRAWING OF PNEUMATIC WHEEL LTH	42
		PNEUMATIC CASTER WHEEL ASB'Y LTH	43
		DRAWING OF PNEUMATIC WHEEL RTH	44
<u>CANNON TRIP</u>		PNEUMATIC CASTER WHEEL ASB'Y RTH	45
DRAWING OF CANNON TRIP MOLDBOARD	14	RUBBER DEFLECTOR OPTIONS	46
MW36R10 MOLDBOARD ASB'Y	15	HYDRAULIC CYLINDER	49
MW36R11 MOLDBOARD ASB'Y	15		
MW41R10 MOLDBOARD ASB'Y	16		
<u>POLYMER COMPRESSION ARM TRIP</u>			
MW36R11 MOLDBOARD ASB'Y	17		
MW41R11 MOLDBOARD ASB'Y	18		
MW41R12 MOLDBOARD ASB'Y	19		
<u>STANDARD EQUIPMENT</u>			
DRAWING OF REVERSIBLE PUSHFRAME	20		
REVERSIBLE PUSHFRAME ASB'Y	21		
DRAWING OF MW PUSHFRAME HYD PARTS	22		
MW PUSHFRAME HYD PARTS	23		
DRAWING OF COMPRESSION TRIP CANISTER ASB'Y	24		
COMPRESSION TRIP CANISTER ASB'Y	25		



212 North Evans Road; Evansdale, Iowa 50707; Phone (319)236-7977, Fax (319)236-7980

INTRODUCTION

This instruction/parts manual has operation and maintenance information for the Viking-Cives **MW Series Power Reversing Plow**. It has been prepared to familiarize you with the design features of the unit, and to instruct you in its proper operation and maintenance.

Read this manual carefully before you operate or service your **MW Series Power Reversing Plow**. Remember that you're working with heavy equipment that can injure you or someone else. You can help lessen the chance of injury by following the procedures in this manual, carefully.

DANGER: If incorrectly used, this equipment can cause severe injury. Your chance of injury can be greatly reduced by following all caution/warning decal notifications. All decals must be kept clean and complete. Replace any decals that are unreadable. Decals may be purchased directly from Viking-Cives and/or nearest authorized dealer. All Operator/Service people should review this manual carefully and become familiar with its contents. **If anyone else beside you operates or services this equipment, make sure they read this manual and are instructed with to follow the safety procedures related to this equipment.**

PERIODIC MAINTENANCE INSPECTION DAILY INSPECTION AND LUBRICATION

Daily inspection along with periodic preventive maintenance will reduce the chance of any major repairs and down time during equipment use.

1. Check the fluid level in the hydraulic oil reservoir. If the sight indicates low oil level, add the appropriate amount of the specified hydraulic fluid.
2. Grease all required components:
 - All plow harness sheave nipples.
 - All pump drive shaft nipples.
3. Check all components for loose and/or missing fasteners, if required tighten and/or replace.
4. Visually inspect all hydraulic connections and hoses for cracks and/or leaks.
5. Check all cables, chains and sheaves for excessive wear or damage.
6. Visually inspect plow. Check cutting edges and wear shoes. If cutting edge has excessive wear remove and rotate or if required replace. **CAUTION:** Do not allow cutting edge to wear down to mounting angle. Any wear to the mounting angle may affect the operation and safety of the equipment. Replacement is costly.
7. At the beginning of each shift visually inspect all caution and warning decals. All decals should be complete and legible. If decals are not legible, clean them. If cleaning the decals does not make them legible, install new decals.



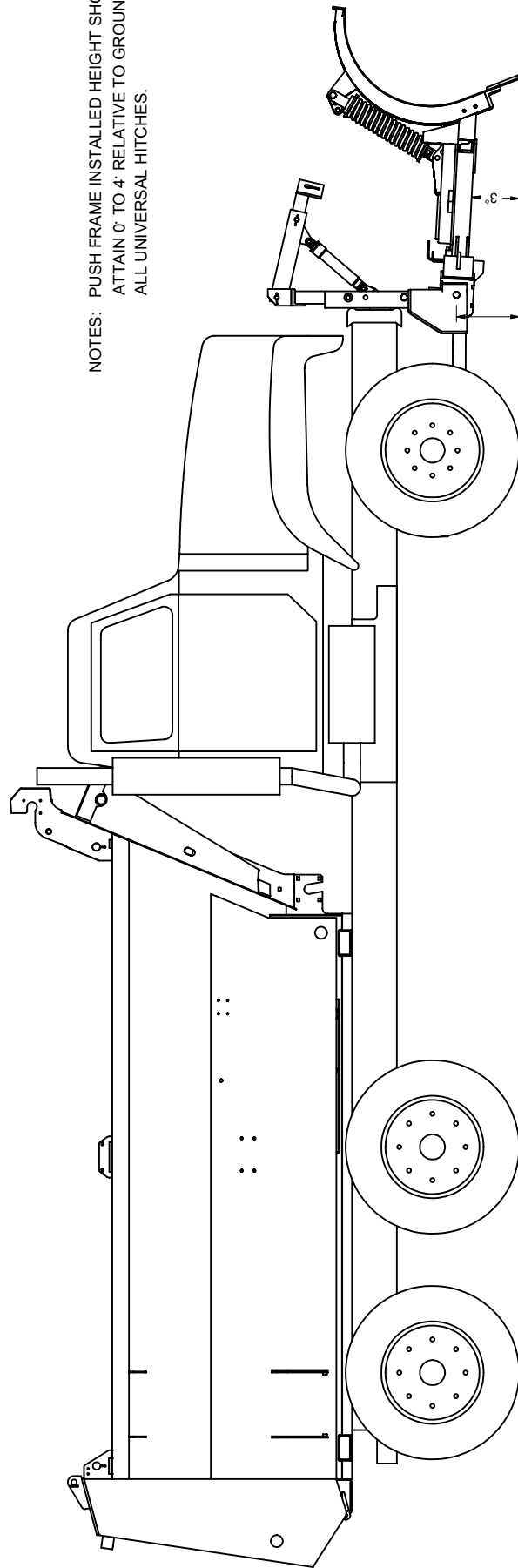
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OPERATING INSTRUCTIONS

1. The operator should familiarize himself with all equipment prior to operation. The in cab-controls are placed at a comfortable reach of the operator, with an allowable amount of adjustment. If necessary, the controls can be adjusted for either driver or passenger use.
2. The in cab control levers are arranged from left to right as the operator sees the plows.
 - Plow Lift: Front Plow (One-way, Reversible, etc.)
 - Plow ReverseAll levers are clearly marked as to the equipment/function they control.
3. To raise the plow, pull back on the appropriate control level, to lower the plow, push the control level forward.
NOTE: The in cab controls are proportional to the hydraulic valve, therefore the further the control lever is moved the faster the plow will raise or lower.
4. Before putting any equipment into use, check for any worn, damaged or loose components, if necessary repair or replace. Listen for any unusual sounds, if necessary repair and/or replace worn or damaged parts.
5. Before operating any equipment make sure to read and fully understand all caution and safety warnings. Familiarize yourself and others with all caution/warning labels and their locations. Make sure all labels are complete and legible. Replace any labels that have become unreadable and/or missing. Replacement labels can be purchased directly from Viking-Cives and/or nearest authorized dealer.



212 NORTH EVANS ROAD, EVANSDALE, IOWA 50707 (319)236-7977 PH (319)236-7980 FX



NOTES: PUSH FRAME INSTALLED HEIGHT SHOULD ATTAIN 0° TO 4° RELATIVE TO GROUND FOR ALL UNIVERSAL HITCHES.

VIKING-CIVES GROUP UNIVERSAL HITCH -GENERAL MOUNTING PROCEDURE-

14" MIN TO 15" MAX PIN HEIGHT

NOTES: HITCH SHOWN IS NOT REPRESENTED FOR ALL UNIVERSAL HITCHES.

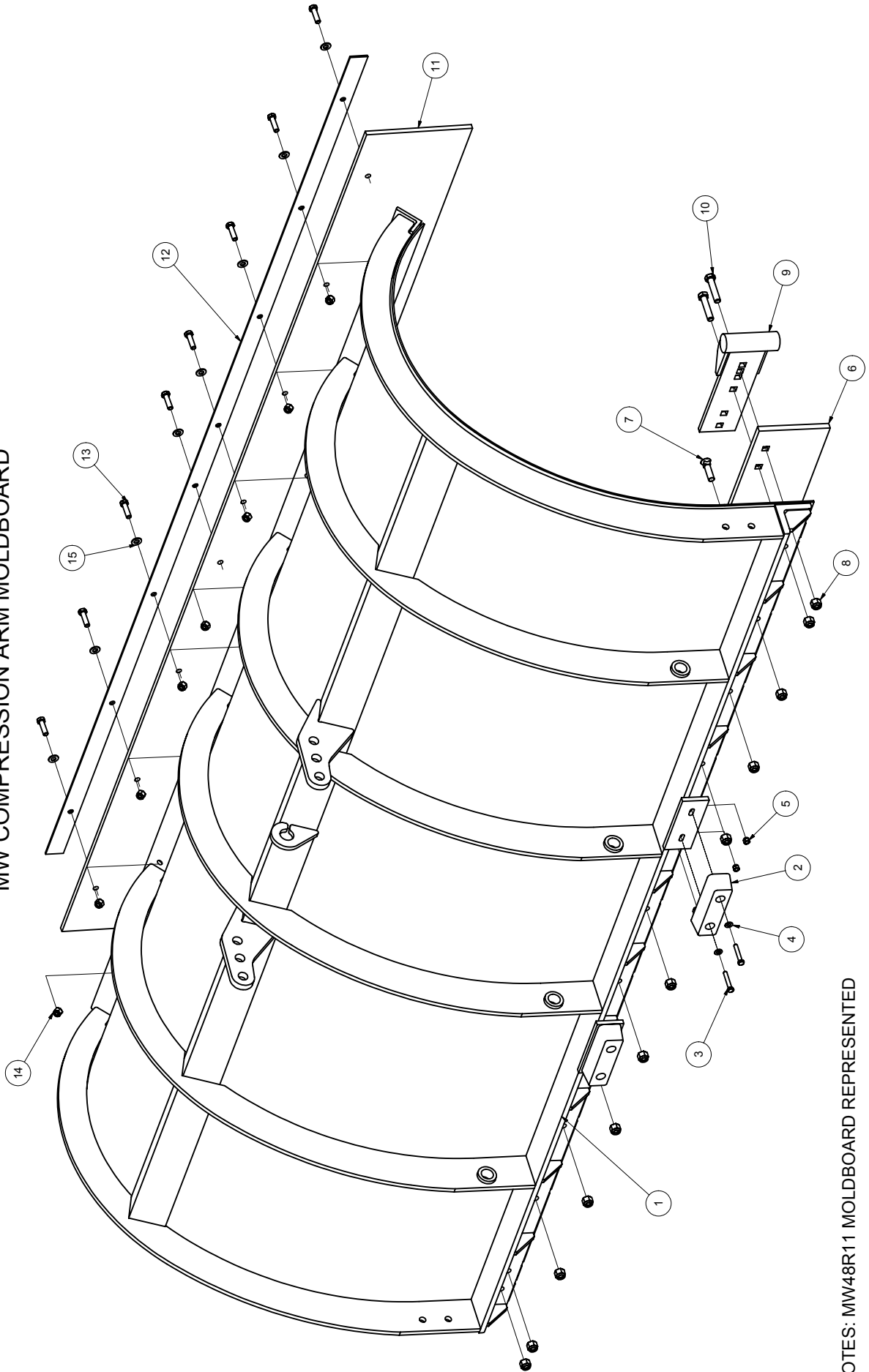
- STEP 1:** CENTER OPTIONAL BUMPER ANGLE (ITEM 00122027) ONTO EXISTING FRONT BUMPER; NEXT, LOCATE AND DRILL A MINIMUM OF THREE (3) 11/16" DIAMETER HOLES THROUGH THE BUMPER ANGLE AND EXISTING TRUCK BUMPER. BOLT THE BUMPER ANGLE IN PLACE WITH 5/8" DIAMETER BOLTS.
- STEP 2:** CENTER THE HITCH ONTO THE BUMPER ANGLE WITH AN APPROXIMATE PUSH HEIGHT CENTER OF 14" TO 15" FROM GROUND LEVEL; WELD HITCH TO BUMPER ANGLE.
- STEP 3:** LOCATE THE REAR CLIP ANGLE BRACKETS FROM OPTIONAL BRACE ARM KIT (ITEM 200122035) IN A SUITABLE LOCATION ON THE TRUCK FRAME BEHIND THE SPRING SHACKLE. NEXT, MARK AND DRILL FOUR (4) 11/16" DIAMETER HOLES ON EACH CLIP ANGLE. TRANSFER THE EXISTING HOLES FROM THE FRAME TO THE CLIP ANGLE WHERE POSSIBLE. BOLT IN PLACE WITH FOUR (4) 5/8" DIAMETER BOLTS. **[NOTE:** THE CLIP ANGLES MUST BE SET ACCORDING TO THE FRAME AND SPRING WIDTHS, ALLOWING CLEARANCE FOR THE THRUST ARM BRACES, PRIOR TO FINAL WELDING.]
- STEP 4:** LOCATE THE CONNECTING LUGS ON THE HITCH IN LINE WITH THE REAR CLIP ANGLES AND WELD IN PLACE.
- STEP 5:** MEASURE AND CUT BRACE BARS FROM OPTIONAL BRACE ARM KIT (200122035) TO SUIT. NEXT, MARK AND DRILL A 13/16" DIAMETER HOLE IN BRACE BAR TO MATCH CLIP ANGLE. BOLT IN PLACE WITH 3/4" DIAMETER BOLTS.

TO MAINTAIN OUR ON-GOING PRODUCT AND DEVELOPMENT IMPROVEMENT PROGRAM, VIKING-CIVES RESERVES THE RIGHT TO CHANGE EQUIPMENT & SPECIFICATION WITHOUT NOTICE.



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MW COMPRESSION ARM MOLDBOARD



NOTES: MW48R11 MOLDBOARD REPRESENTED

EQUIPMENT MAY NOT BE EXACTLY AS SHOWN. SOME COMPONENTS MAY BE OPTIONAL.
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(S7220) 01101633: MOLDBOARD ASB'Y MW36R10 REV PLOW

ITEM ID	ITEM NO	DESCRIPTION	QTY REQ	OPTIONAL
1	201101604	MOLDBOARD WELD'T MW36R10 ARM TRIP	1	
2	280572C	RUBBER BUMPER MC21685T11	2	
3	3SK3588	BOLT HEX 3/8 X 2 UNC ZINC	4	
4	3SK3595	FLATWASHER SAE 3/8 ZINC	4	
5	3SK3591	NUT HEX 3/8 UNC ZINC	4	
6	280020D	BLADE 12 TP 5/8 X 8 X 120	1	
7	2N81074C	5/8 X 2 1/2 PLOW BOLT	12	
8	3SK3781	5/8 TOP LOCK NUT	12	
9	2001795-92	CURB SHOE WELD'T	2	*
10	3SK3750	5/8 X 3-1/2 CARRAGE BOLT	2	*
11	3SK7150	DEFLECTOR RUBBER 3/8 X 12 X 120 PUNCHED	1	*
12	201101490	DEFLECTOR PLATE WASHER - 10FT	1	*
13	3SK3600	BOLT 1/2 X 1-1/2 GRADE 8	8	*
14	3SK3661	FLATWASHER 1/2 SAE	8	*
15	3SK3670	NUT LOCK 1/2 MECH	8	*

(S7230) 01101634: MOLDBOARD ASB'Y MW36R11 REV PLOW

ITEM ID	ITEM NO	DESCRIPTION	QTY REQ	OPTIONAL
1	201101622	MOLDBOARD WELD'T MW36R11 ARM TRIP	1	
2	280572C	RUBBER BUMPER MC21685T11	2	
3	3SK3588	BOLT HEX 3/8 X 2 UNC ZINC	4	
4	3SK3595	FLATWASHER SAE 3/8 ZINC	4	
5	3SK3591	NU HEX 3/8 UNC ZINC	4	
6	280055A	BLADE 12 TP 5/8 X 8 X 132	1	
7	2N81074C	5/8 X 2 1/2 PLOW BOLT	13	
8	3SK3781	5/8 TOP LOCK NUT	13	
9	2001795-92	CURB SHOW WELD'T	2	*
10	3SK3750	5/8 X 3-1/2 CARRAGE BOLT	2	*
11	280573C	DEFLECTOR RUBBER 3/8 X 12 X 132 PUNCHED	1	*
12	201101491	DEFLECTOR PLATE WASHER - 11FT	1	*
13	3SK3600	BOLT 1/2 X 1-1/2 GRADE 8	8	*
14	3SK3661	FLATWASHER 1/2 SAE	8	*
15	3SK3670	TOP LOCK 1/2 MECH	8	*



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(S7225) 01101635: MOLDBOARD ASB'Y MW41R10 REV PLOW

ITEM ID	ITEM NO	DESCRIPTION	QTY REQ	OPTIONAL
1	201101617	MOLDBOARD WELD'T MW41R10 ARM TRIP	1	
2	280572C	RUBBER BUMPER MC21685T11	2	
3	3SK3588	BOLT HEX 3/8 X 2 UNC ZINC	4	
4	3SK3595	FLATWASHER SAE 3/8 ZINC	4	
5	3SK3591	NUT HEX 3/8 UNC ZINC	4	
6	280020D	BLADE 12 TP 5/8 X 8 X 120	1	
7	2N81074C	5/8 X 2 1/2 PLOW BOLT	12	
8	3SK3781	5/8 TOP LOCK NUT	12	
9	2001795-92	CURB SHOE WELD'T	2	*
10	3SK3750	5/8 X 3-1/2 CARRAGE BOLT	2	*
11	3SK7150	DEFLECTOR RUBBER 3/8 X 12 X 120 PUNCHED	1	*
12	201101490	DEFLECTOR PLATE WASHER - 10FT	1	*
13	3SK3600	BOLT 1/2 X 1 1/2 GRADE 8	8	*
14	3SK3661	FLATWASHER 1/2 SAE	8	*
15	3SK3670	TOPLOCK 1/2 MECH	8	*

(S7235) 01101636: MOLDBOARD ASB'Y MW41R11 REV PLOW

ITEM ID	ITEM NO	DESCRIPTION	QTY REQ	OPTIONAL
1	201101619	MOLDBOARD WELD'T MW41R11 ARM TRIP	1	
2	280572C	RUBBER BUMPER MC21685T11	2	
3	3SK3588	BOLT HEX 3/8 X 2 UNC ZINC	4	
4	3SK3595	FLATWASHER SAE 3/8 ZINC	4	
5	3SK3591	NUT HEX 3/8 UNC ZINC	4	
6	280055A	BLADE 12 TO 5/8 X 8 X 132	1	
7	2N81074C	5/8 X 2 1/2 PLOW BOLT	13	
8	3SK3781	5/8 TOP LOCK NUT	13	
9	2001795-92	CURB SHOE WELD'T	2	*
10	3SK3750	5/8 X 3-1/2 CARRAGE BOLT	2	*
11	280573C	DEFLECTOR RUBBER 3/8 X 12 144	1	*
12	201101491	DEFLECTOR PLATE WASHER - 11FT	1	*
13	3SK3600	BOLT 1/2 X 1 1/2 GRADE 8	8	*
14	3SK3661	FLATWASHER 1/2 SAE	8	*
15	3SK3670	NUT LOCK 1/2 MECH	8	*



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(S7240) 01101637: MOLDBOARD ASB'Y MW41R12 REV PLOW

ITEM ID	ITEM NO	DESCRIPTION	QTY REQ	OPTIONAL
1	201101623	MOLDBOARD WELD'T MW41R12 ARM TRIP	1	
2	280572C	RUBBER BUMPER MC21685T11	2	
3	3SK3588	BOLT HEX 3/8 X 2 UNC ZINC	4	
4	3SK3595	FLATWASHER SAE 3/8 ZINC	4	
5	3SK3591	NUT HEX 3/8 UNC ZINC	4	
6	280008B	BLADE 12 TP 5/8 X 8 X 144	1	
7	2N81074C	5/8 X 2 1/2 PLOW BOLT	14	
8	3SK3781	5/8 TOP LOCK NUT	14	
9	2001795-92	CURB SHOE WELD'T	2	*
10	3SK3750	5/8 X 3-1/2 CARRAGE BOLT	2	*
11	280573C	DEFLECTOR RUBBER 3/8 X 12 X 144 PUNCHED	1	*
12	201101492	DEFLECTOR PLATE WASHER - 12FT	1	*
13	3SK3600	BOLT 1/2 X 1 1/2 GRADE 8	10	*
14	3SK3661	FLATWASHER 1/2 SAE	10	*
15	3SK3670	NUT LOCK 1/2 MECH	10	*



212 North Evans Road; Evansdale, Iowa 50707; Phone (319)236-7977, Fax (319)236-7980

(S7227) 01101815: MOLDBOARD ASB'Y MW48R10 REV PLOW

ITEM ID	ITEM NO	DESCRIPTION	QTY REQ	OPTIONAL
1	201101735	MOLDBOARD WELD'T MW48R10 ARM TRIP	1	
2	280572C	RUBBER BUMPER MC21685T11	2	
3	3SK3588	BOLT HEX 3/8 X 2 UNC ZINC	4	
4	3SK3595	FLATWASHER SAE 3/8 ZINC	4	
5	3SK3591	NUT HEX 3/8 UNC ZINC	4	
6	280020D	BLADE 12 TP 5/8 X 8 X 120	1	
7	2N81074C	5/8 X 2 1/2 PLOW BOLT	12	
8	3SK3781	5/8 TOP LOCK NUT	12	
9	2001795-92	CURB SHOE WELD'T	2	*
10	3SK3750	5/8 X 3-1/2 CARRAGE BOLT	2	*
11	3SK7150	RUBBER DEFLECTOR 10FT	1	*
12	201101490	DEFLECTOR PLATE WASHER - 10FT	1	*
13	3SK3600	BOLT 1/2 X 1 1/2 GRADE 8	8	*
14	3SK3661	FLATWASHER 1/2 SAE	8	*
15	3SK3670	NUT LOCK 1/2 MECH	8	*

(S7236) 01101801: MOLDBOARD ASB'Y MW48R11 REV PLOW

ITEM ID	ITEM NO	DESCRIPTION	QTY REQ	OPTIONAL
1	201101718	MOLDBOARD WELD'T MW48R11 ARM TRIP	1	
2	280572C	RUBBER BUMPER MC21685T11	2	
3	3SK3588	BOLT HEX 3/8 X 2 UNC ZINC	4	
4	3SK3595	FLATWASHER SAE 3/8 ZINC	4	
5	3SK3591	NUT HEX 3/8 UNC ZINC	4	
6	280055A	BLADE 12 TO 5/8 X 8 X 132	1	
7	2N81074C	BOLT PLOW 5/8 X 2 1/2 UNC ZINC	13	
8	3SK3781	NUT HEX 5/8 UNC ZINC	13	
9	2001795-92	CURB SHOE WELD'T	2	*
10	3SK3750	5/8 X 3-1/2 CARRAGE BOLT	2	*
11	280573C	DEFLECTOR RUBBER 3/8 X 12 X 132 PUNCHED	1	*
12	201101491	DEFLECTOR PLATE WASHER - 11FT	1	*
13	3SK3600	BOLT 1/2 X 1 1/2 GRADE 8	8	*
14	3SK3661	FLATWASHER 1/2 SAE	8	*
15	3SK3670	NUT LOCK 1/2 MECH	8	*



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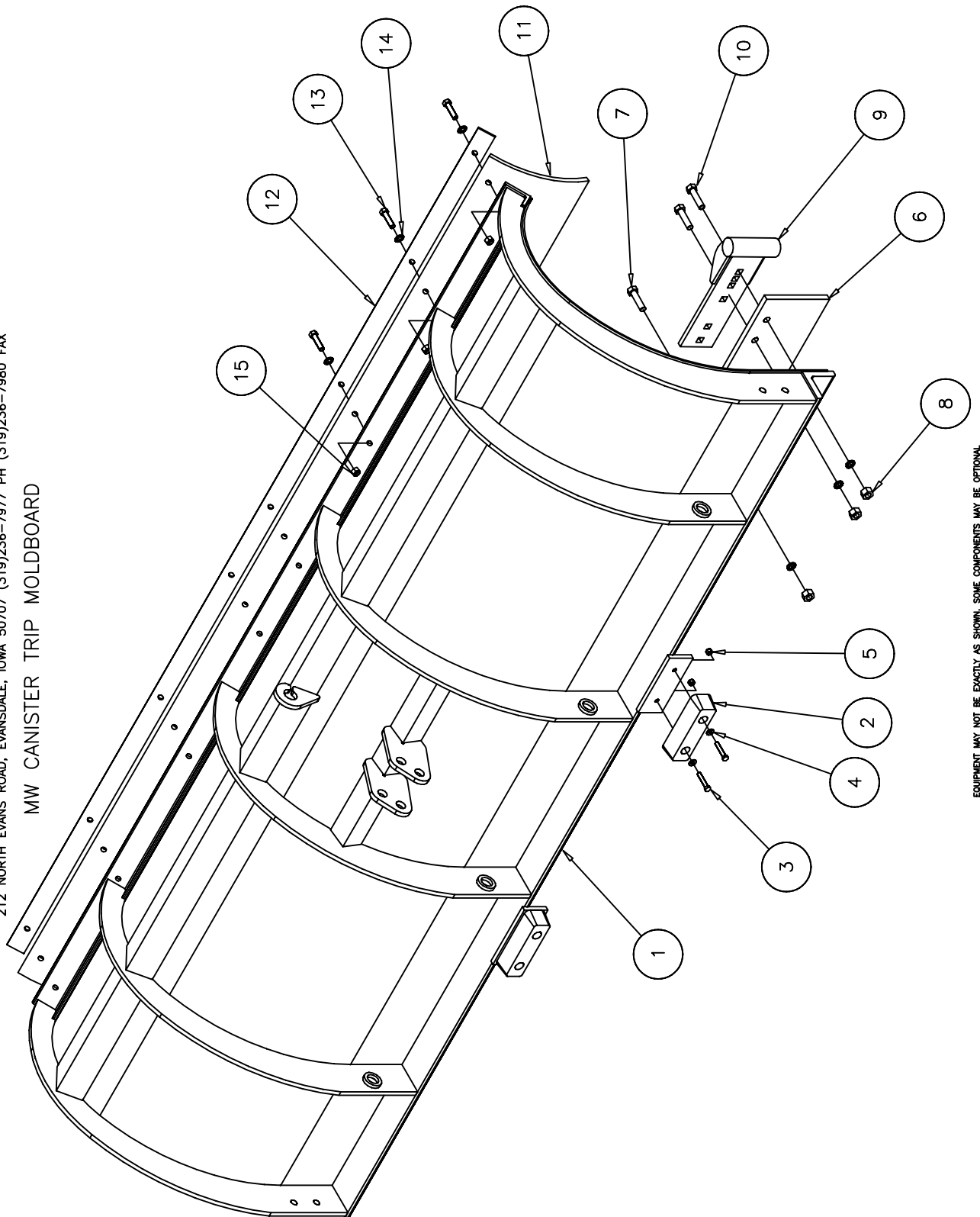
(S7245) 01101802: MOLDBOARD ASB'Y MW48R12 REV PLOW

ITEM ID	ITEM NO	DESCRIPTION	QTY REQ	OPTIONAL
1	2011011799	MOLDBOARD WELD'T MW48R12 ARM TRIP	1	
2	280572C	RUBBER BUMPER MC21685T11	2	
3	3SK3588	BOLT HEX 3/8 X 2 UNC ZINC	4	
4	3SK3595	FLATWASHER SAE 3/8 ZINC	4	
5	3SK3591	NUT HEX 3/8 UNC ZINC	4	
6	280008B	BLADE 12 TP 5/8 X 8 X 144	1	
7	2N81074C	BOLT PLOW 5/8 X 2 1/2 UNC ZINC	14	
8	3SK3781	5/8 TOP LOCK NUT	14	
9	2001795-92	CURB SHOE WELD'T	2	*
10	3SK3750	5/8 X 3-1/2 CARRAGE BOLT	2	*
11	280573C	DEFELCTOR RUBBER 3/8 X 12 X 144 PUNCHED	1	*
12	201101492	DEFLECTOR PLATE WASHER - 12FT	1	*
13	3SK3600	BOLT 1/2 X 1 1/2 GRADE 8	10	*
14	3SK3661	FLATWASHER 1/2 SAE	10	*
15	3SK3370	NUT LOCK 1/2 MECH	10	*



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MW CANISTER TRIP MOLDBOARD



EQUIPMENT MAY NOT BE EXACTLY AS SHOWN. SOME COMPONENTS MAY BE OPTIONAL.
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01101639: MOLDBOARD ASB'Y MW36R10 CANNON TRIP

ITEM ID	ITEM NO	DESCRIPTION	QTY REQ	OPTIONAL
1	201101629	MOLDBOARD WELD'T MW36R10 CANNON TRIP	1	
2	280572C	RUBBER BUMPER MC21685T11	2	
3	3SK3588	BOLT HEX 3/8 X 2 UNC ZINC	4	
4	3SK3595	FLATWASHER SAE 3/8 ZINC	4	
5	3SK3591	NUT HEX 3/8 UNC ZINC	4	
6	280020D	BLADE 12 TP 5/8 X 8 X 120	1	
7	2N81074C	5/8 X 2 1/2 PLOW BOLT	12	
8	3SK3781	5/8 TOP LOCK NUT	12	
9	2001795-92	CURB SHOE WELD'T	2	*
10	3SK3750	5/8 X 3-1/2 CARRAGE BOLT	2	*
11	3SK7150	DEFLECTOR RUBBER 3/8 X 12 X 120 PUNCHED	1	*
12	201101490	DEFLECTOR PLATE WASHER - 10FT	1	*
13	3SK3600	BOLT 1/2 X 1 1/2 GRADE 8	8	*
14	3SK3661	FLATWASHER 1/2 SAE	8	*
15	3SK3670	NUT LOCK 1/2 MECH	8	*

01101640: MOLDBOARD ASB'Y MW36R11 CANNON TRIP

ITEM ID	ITEM NO	DESCRIPTION	QTY REQ	OPTIONAL
1	201101630	MOLDBOARD WELD'T MW36R11 CANNON TRIP	1	
2	280572C	RUBBER BUMPER MC21685T11	2	
3	3SK3588	BOLT HEX 3/8 X 2 UNC ZINC	4	
4	3SK3595	FLATWASHER SAE 3/8 ZINC	4	
5	3SK3591	NUT HEX 3/8 UNC ZINC	4	
6	280055A	BLADE 12 TP 1/2 X 8 X 132	1	
7	2N81074C	5/8 X 2 1/2 PLOW BOLT	13	
8	3SK3781	5/8 TOP LOCK NUT	13	
9	2001795-92	CURB SHOE WELD'T	2	*
10	3SK3750	5/8 X 3-1/2 CARRAGE BOLT	2	*
11	280573C	DEFLECTOR RUBBER 3/8 X 12 X 132 PUNCHED	1	*
12	201101491	DEFLECTOR PLATE WASHER - 11FT	1	*
13	3SK3600	BOLT 1/2 X 1 1/2 GRADE 8	8	*
14	3SK3661	FLATWASHER 1/2 SAE	8	*
15	3SK3670	NUT LOCK 1/2 MECH	8	*



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01101641: MOLDBOARD ASB'Y MW41R10 CANNON TRIP.

ITEM ID	ITEM NO	DESCRIPTION	QTY REQ	OPTIONAL
1	201101631	MOLDBOARD WELD'T MW41R10 CANNON TRIP	1	
2	280572C	RUBBER BUMPER MC21685T11	2	
3	3SK3588	BOLT HEX 3/8 X 2 UNC ZINC	4	
4	3SK3595	FLATWASHER SAE 3/8 ZINC	4	
5	3SK3591	NUT HEX 3/8 UNC ZINC	4	
6	280020D	BLADE 12TP 5/8 X 8 X 120	1	
7	2N81074C	5/8 X 2 1/2 PLOW BOLT	12	
8	3SK3781	5/8 TOP LOCK NUT	12	
9	2001795-92	CURB SHOE WELD'T	2	*
10	3SK3750	5/8 X 3-1/2 CARRAGE BOLT	2	*
11	3SK7150	DEFLECTOR RUBBER 3/8 X 12 X 120 PUNCHED	1	*
12	201101490	DEFLECTOR PLATE WASHER - 10FT	1	*
13	3SK3600	BOLT 1/2 X 1 1/2 GRADE 8	8	*
14	3SK3661	FLATWASHER 1/2 SAE	8	*
15	3SK3670	NUT LOCK 1/2 MECH	8	*



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01101726: MOLDBOARD ASB'Y MW36R11 POLY – 12 IN

ITEM ID	ITEM NO	DESCRIPTION	QTY REQ	OPTIONAL
1	201101723	MOLDBOARD WELD'T MW36R11 POLY ARM TRIP	1	
2	280572C	RUBBER BUMPER MC21685T11	2	
3	3SK3588	BOLT HEX 3/8 X 2 UNC ZINC	4	
4	3SK3595	FLATWASHER SAE 3/8 ZINC	4	
5	3SK3591	NUT HEX 3/8 UNC ZINC	4	
6	280055A	BLADE 12 TP 5/8 X 8 X 132	1	*
7	2N81074C	5/8 X 2 1/2 PLOW BOLT	13	*
8	3SK3781	5/8 TOP LOCK NUT	13	*
9	2001795-92	CURB SHOE WELD'T	2	*
10	3SK3750	5/8 X 3-1/2 CARRAGE BOLT	2	*
11	280573C	DEFLECTOR RUBBER 3/8 X 12 X 132 PUNCHED	1	*
12	201101491	DEFLECTOR PLATE WASHER - 11FT	1	*
13	3SK3600	BOLT 1/2 X 1 1/2 GRADE 8	8	
14	3SK3661	FLATWASHER 1/2 SAE	8	
15	3SK3670	NUT LOCK 1/2 MECH	8	
16	201101724	POLYMER MOLDBOARD SKIN MW36R11	1	
17	201101712	POLYMER RETAINER ANGLE - 11FT	1	
18	3SK3660	BOLT 1/2 X 1 1/2 UNC ZINC	7	
19	3SK3661	FLATWASHER SAE 1/2 UNC ZINC	7	
20	3SK3670	NUT HEX TOPLOCK 1/2 UNC ZINC	7	



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01101753: MOLDBOARD ASB'Y MW41R11 POLY – 12 IN

ITEM ID	ITEM NO	DESCRIPTION	QTY REQ	OPTIONAL
1	201101750	MOLDBOARD WELD'T MW41R11 POLY – ARM TRIP	1	
2	280572C	RUBBER BUMPER MC21685T11	2	
3	3SK3588	BOLT HEX 3/8 X 2 UNC ZINC	4	
4	3SK3595	FLATWASHER SAE 3/8 ZINC	4	
5	3SK3591	NUT HEX 3/8 UNC ZINC	4	
6	280055A	BLADE 12 TP 5/8 X 8 X 132	1	*
7	2N81074C	5/8 X 2 1/2 PLOW BOLT	13	*
8	3SK3781	5/8 TOP LOCK NUT	13	*
9	2001795-92	CURB SHOE WELD'T	2	*
10	3SK3750	BOLT HEX 5/8 X 3 UNC ZINC	2	*
11	280573C	DEFLECTOR RUBBER 3/8 X 12 X 132 PUNCHED	1	*
12	201101491	DEFLECTOR PLATE WASHER - 11FT	1	*
13	3SK3600	BOLT 1/2 X 1 1/2 GRADE 8	8	
14	3SK3661	FLATWASHER 1/2 SAE	8	
15	3SK3670	NUT LOCK 1/2 MECH	8	
16	201101752	POLYMER MOLDBOARD SKIN MW41R11	1	
17	201101712	POLYMER RETAINER ANGLE - 11FT	1	
18	3SK3660	BOLT 1/2 X 1 1/2 UNC ZINC	7	
19	3SK3661	FLATWASHER SAE 1/2 UNC ZINC	7	
20	3SK3670	NUT HEX TOPLOCK 1/2 UNC ZINC	7	



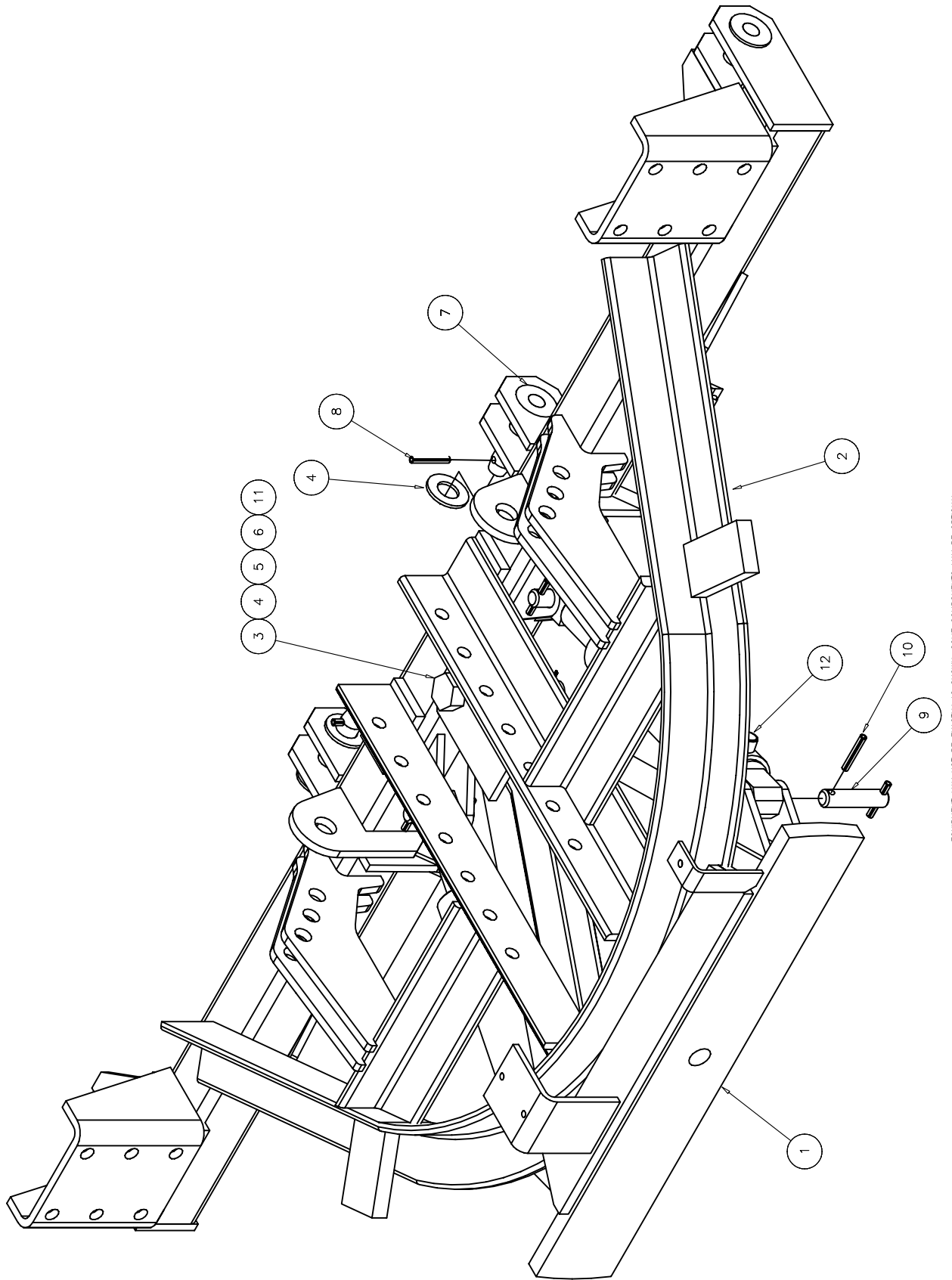
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01101757: MOLDBOARD ASB'Y MW41R12 POLY – 12 IN

ITEM ID	ITEM NO	DESCRIPTION	QTY REQ	OPTIONAL
1	201101754	MOLDBOARD WELD'T MW41R12 POLY – ARM TRIP	1	
2	280572C	RUBBER BUMPER MC21685T11	2	
3	3SK3588	BOLT HEX 3/8 X 2 UNC ZINC	4	
4	3SK3595	FLATWASHER SAE 3/8 ZINC	4	
5	3SK3591	NUT HEX ELASTIC 3/8 UNC ZINC	4	
6	28008B	BLADE 12 TP 5/8 X 8 X 144	1	*
7	2N81074C	5/8 X 2 1/2 PLOW BOLT	14	*
8	3SK3781	5/8 TOP LOCK NUT	14	*
9	2001795-92	CURB SHOE WELD'T	2	*
10	3SK3750	5/8 X 3-1/2 CARRAGE BOLT	2	*
11	280573C	DEFLECTOR RUBBER 1/2 X 12 X 132 PUNCHED	1	*
12	201101492	DEFLECTOR PLATE WASHER - 12FT	1	*
13	3SK3600	BOLT 1/2 X 1 1/2 GRADE 8	10	
14	3SK3661	FLATWASHER 1/2 SAE	10	
15	3SK367	NUT LOCK 1/2 MECH	10	
16	201101756	POLYMER MOLDBOARD SKIN MW41R12	1	
17	201101758	POLYMER RETAINER ANGLE - 12FT	1	
18	3SK3660	BOLT 1/2 X 1 1/2 UNC ZINC	7	
19	3SK3661	FLATWASHER SAE 1/2 UNC ZINC	7	
20	3SK3670	NUT HEX TOPLOCK 1/2 UNC ZINC	7	



BOX 1120, NORPARK DRIVE, MOUNT FOREST, ONT. NOG 2L0 (519)323-4433 PH (519)323-4608 FX



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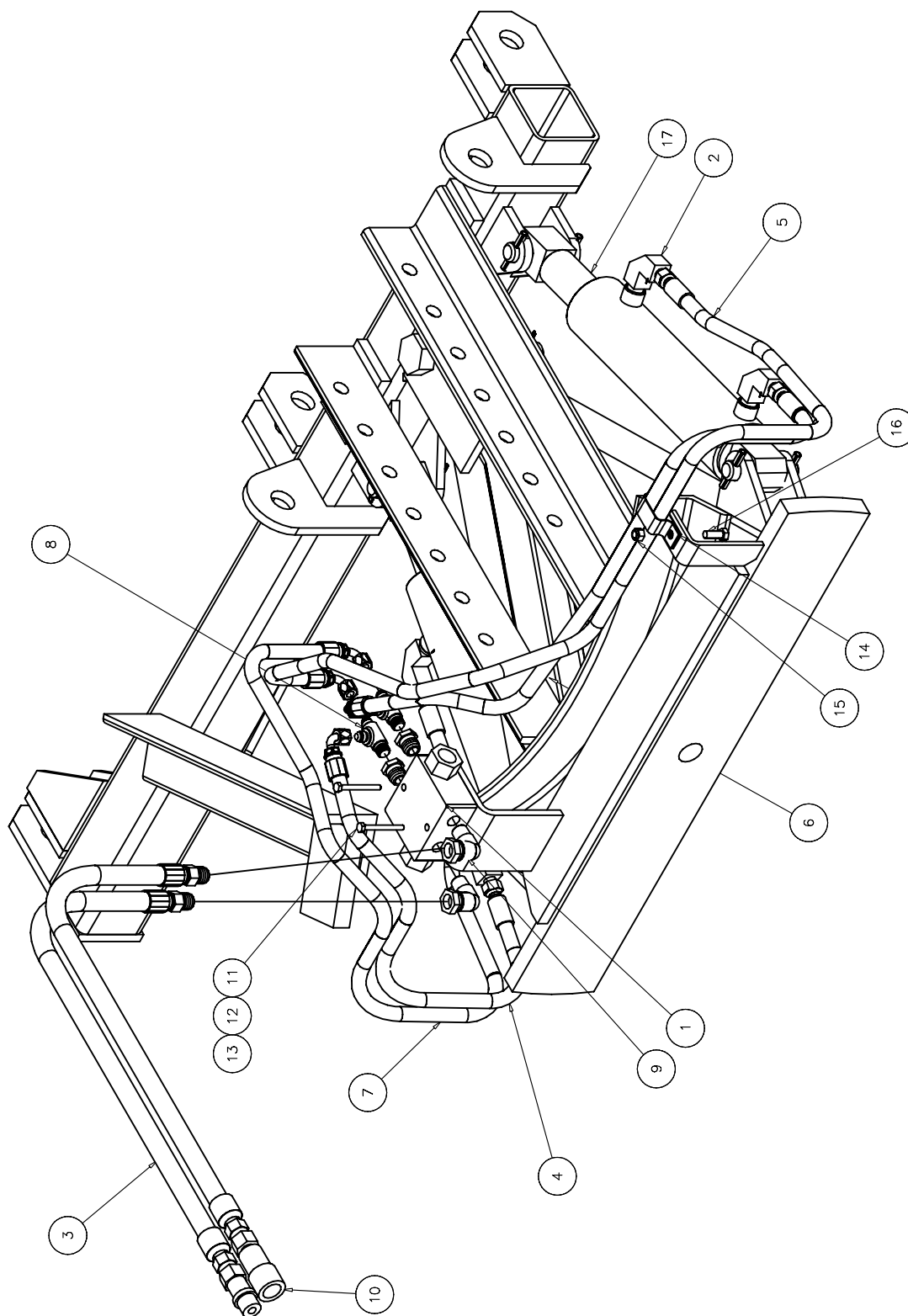
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01101607: REVERSIBLE PUSHFRAME ASB'Y

ITEM ID	ITEM NO	DESCRIPTION	QTY REQ	OPTIONAL
1	201101381	PIVOT FRAME WELD'T	1	
2	201101608	REVERSIBLE PUSHFRAME WELD'T	1	
3	20P108	PIN 1 ¼ X 6 1/16 UH 7 OA BOLT	1	
4	281015A	FLATWASHER 1 ¼ SAE	5	
5	281006	NUT HEX SLOTTED 1 1/4 UNC ZINC	1	
6	280507	COTTER PIN 1/4 X 3	1	
7	20P010	1 ¼ X 4 3/8 CH6 PIN	4	
8	280569A	ROLL PIN 3/8 X 2 1/2 ZINC	4	
9	20P049	PIN CYLINDER 1 X 4 ¼	4	
10	280569A	ROLL PIN 3/8 X 2-1/2 ZINC	8	
11	280577A	GREASE FITTING 1/8 NPT 90 DEG	1	
12	2W85	MW PUSHFRAME HYD KIT	1	



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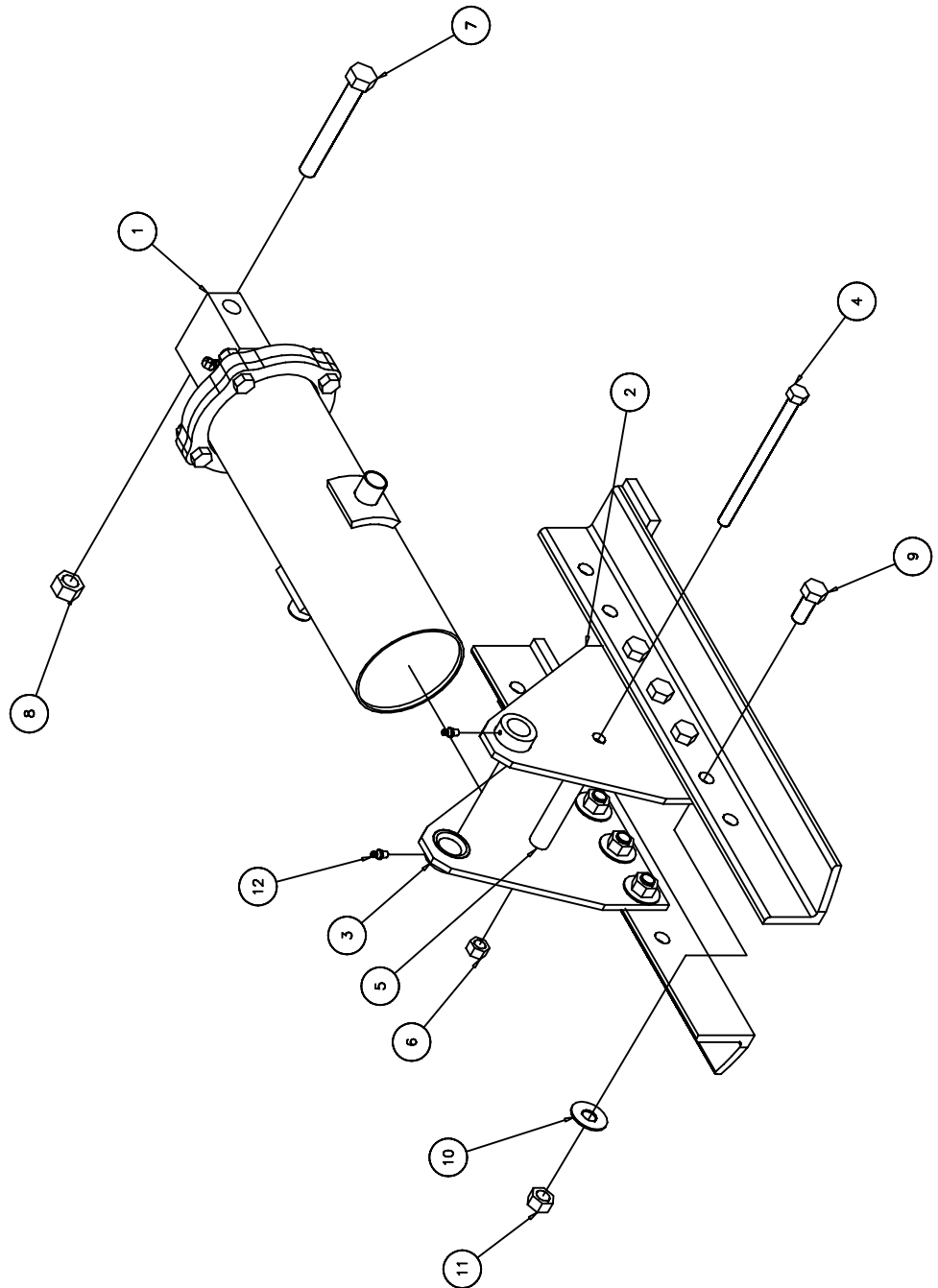
MW PUSHFRAME HYD PARTS

MW PUSHFRAME HYD. KIT SOLD AS COMPLETE KIT ONLY; ITEM ID NUMBERS 2-16.

ITEM ID	ITEM NO	DESCRIPTION	QTY REQ	OPTIONAL
1	2180244	VALVE CUSHION DXV-50-200	1	
2	2C5515 X 6 X 8	ELBOW 90 DEGREE	4	
3		56 1/2" HOSE	2	
4		24" HOSE	1	
5		57" HOSE	1	
6		42" HOSE	1	
7		38" HOSE	1	
8	2TF5755 X 4 X 4	MRT	2	
9	3SK4130	SWIVEL 3/8 90	2	
10	2S56-4	QUICK DISC SET 1/2	1	
11	3SK3495	BOLT 5/16 X 2 1/2 GRADE 5	2	
12	3SK3498	FLAT WASHER 5/16 USS HARD	2	
13	3SK3497	NUT 5/16 18 TOP LOCK	2	
14	2HK1913	HOSE CLAMP	2	
15	3SK3591	NUT HEX 3/8 TOPLOCK UNC	2	
16	3SK3580	BOLT 3/8 X 1 1/4 GRADE 5	1	
17	280153	CYLINDER HYD DA 3 X 9 1/4	2	
17	280174	CYLINDER HYD DA 4 X 9 1/4	2	*



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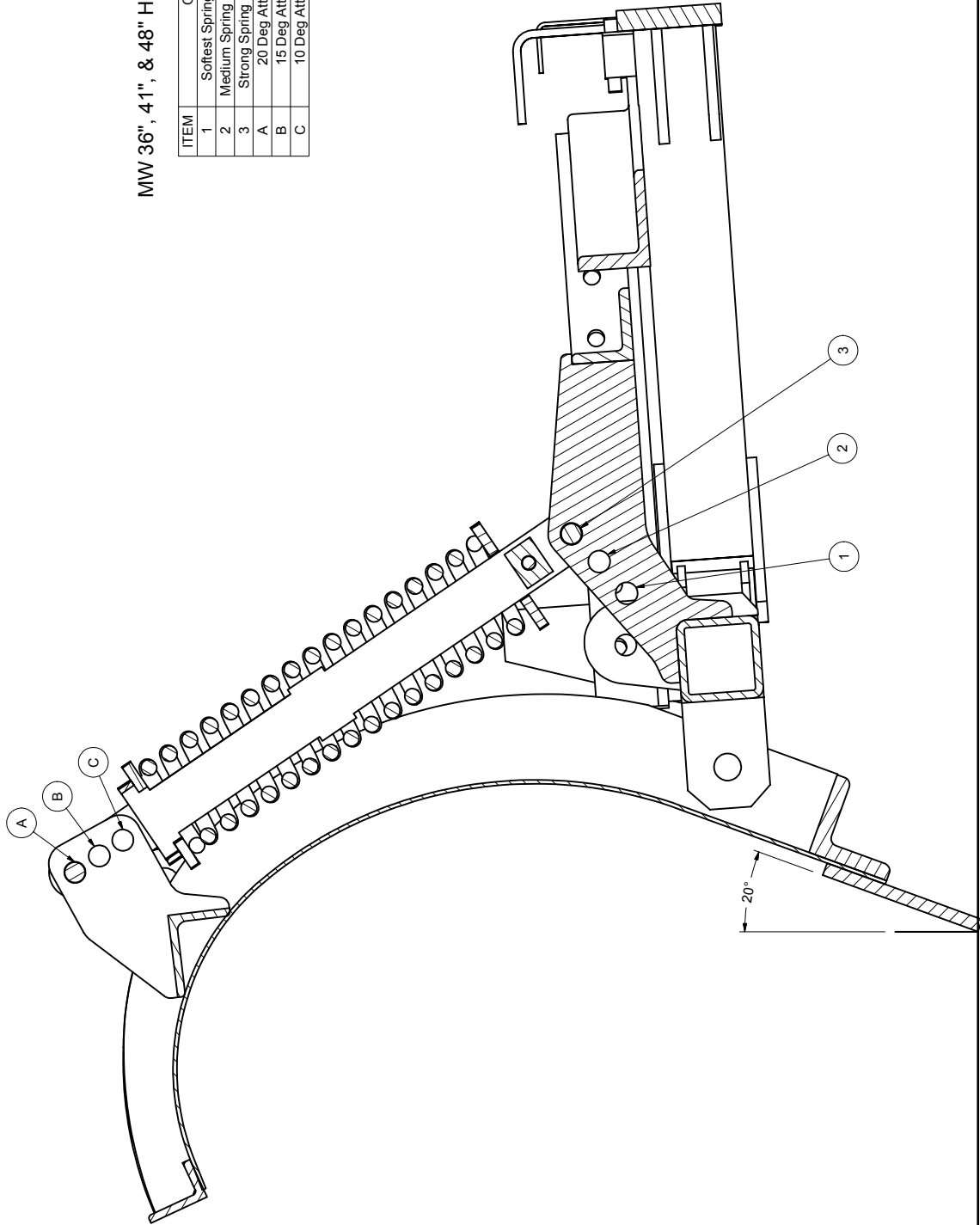
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201109600: COMPRESSION TRIP CANISTER ASS'Y – 6IN

ITEM ID	ITEM NO	DESCRIPTION	QTY REQ	OPTIONAL
1	201109600	COMPRESSION TRIP CANISTER ASS'Y - 6IN	1	
2	2008052	TRUNNION PLATE RTH WELD'T	1	
3	2008052A	TRUNNION PLATE LTH WELD'T	1	
4	281113	BOLT HEX 5/8 X 9 UNC ZINC	1	
5	20R488	TUBE RD 1.050N 0.824N 7.250C	1	
6	3SK3785	NUT HEX 5/8 UNC ZINC	1	
7	281046	7/8 X 6 ½ BOLT	1	
8	281040B	7/8 NUT	1	
9	3SK3795	BOLT HEX 3/4 X 2 UNC ZINC	8	
10	3SK3781	3/4 NYLOCK NUT	8	
11	28057A	GREASE FITTING 1/8 NPT STR	2	



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MW 36", 41", & 48" HOLE POSITION LAYOUT

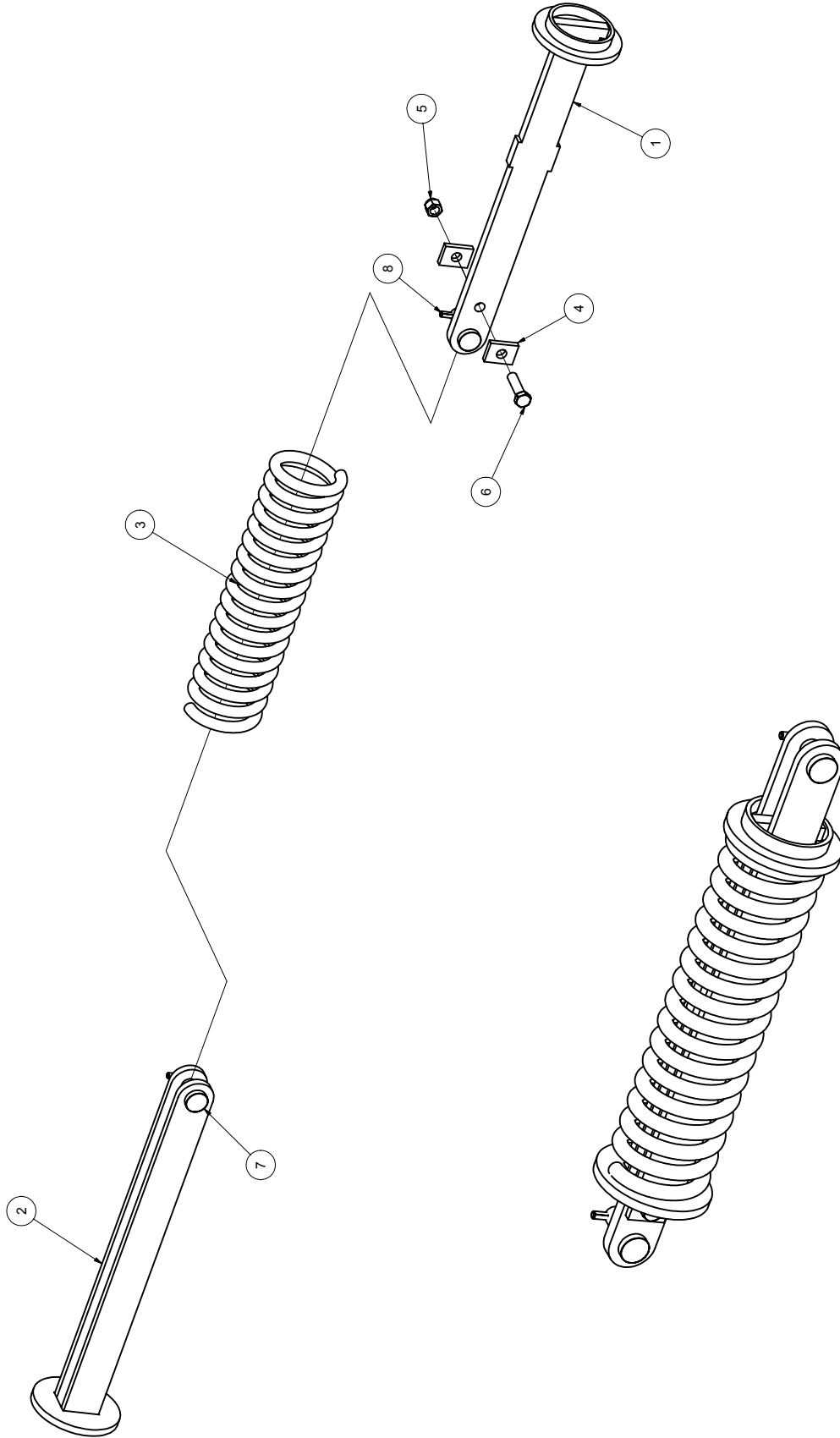
ITEM	OUTCOME
1	Softest Spring Setting (Trips Easy)
2	Medium Spring Setting (Trips Hardest)
3	Strong Spring Setting (Trips Hardest)
A	20 Deg Attack Angle At Rest
B	15 Deg Attack Angle At Rest
C	10 Deg Attack Angle At Rest

MW 36R MOLDBOARD REPRESENTED IN DRAWING

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01101614: COMPRESSION ARM ASB'Y TYPE 23 (11/12/01)

ITEM ID	ITEM NO	DESCRIPTION	QTY REQ	OPTIONAL
1	201101609	INNER ARM WELD'T TYPE 23	1	
2	201101610	OUTER ARM WELD'T TYPE 23	1	
3	20580025	SRPING COMP 5 3/8 ID X 23 1/4	1	
4	201101611	SPRING ARM STOP LUG TYPE 23	2	
5	3SK3711	BOLT HEX 5/8 X 2 1/2 UNC ZINC	1	
6	3SK3781	NUT HEX TOPLOCK 5/8 UNC ZINC	1	
7	20P148A	PIN 1 X 3 COMP ARM	2	
8	280569A	ROLL PIN 3/8 X 2-1/2	2	

01101415: TRIP SPRING ARM ASB'Y (05/30/00)

ITEM ID	ITEM NO	DESCRIPTION	QTY REQ	OPTIONAL
1	201101410	INNER BAR WELD'T	1	
2	201101409	OUTER BAR WELD'T	1	
3	280418A	SPRING COMP 5 3/8 OD X 3 7/8 ID X 26	1	
4	200401480	LUG RS 0.68P 0.75X1.00Y 1.50W2.00H 0.38T	2	
5	3SK3710	BOLT HEX 5/8 X 2 1/2 UNC ZINC	1	
6	3SK3781	NUT HEX TOPLOCK 5/8 UNC ZINC	1	
7	20P148A	PIN 1 X 3 COMP ARM	2	
8	280569A	ROLL PIN 3/8 X 2-1/2	2	



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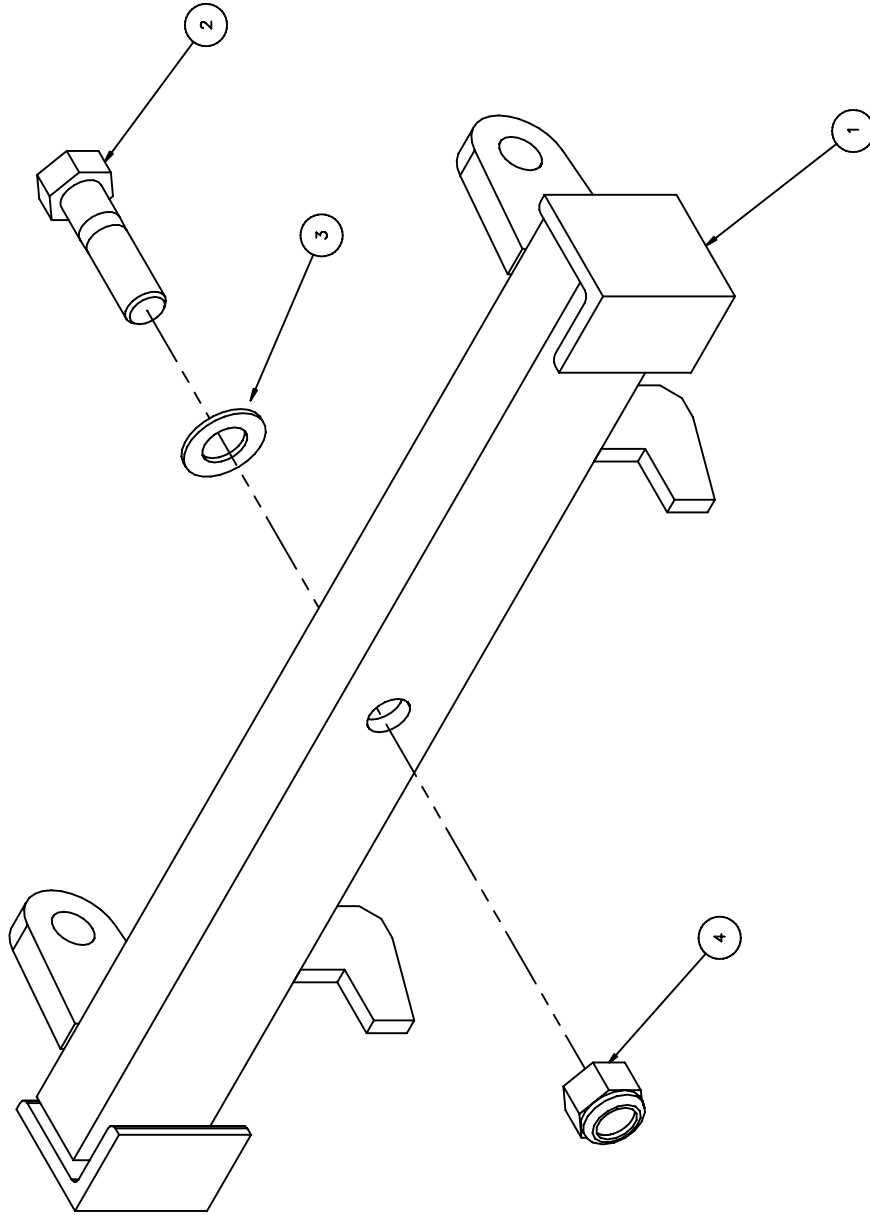
01105200: TRIP SPRING ARM ASB'Y (01/19/98)

ITEM ID	ITEM NO	DESCRIPTION	QTY REQ	OPTIONAL
1	201105205	INNER BAR WELD'T	1	
2	201105204	OUTER BAR WELD'T	1	
3	2180418A	SPRING COMP 5 3/8 OD X 3 7/8 ID X 26	1	
4	200401480	LUG RS 0.68P 0.75X1.00Y 1.50W2.00H 0.38T	2	
5	3SK3710	BOLT HEX 5/8 X 2 1/2 UNC ZINC	1	
6	3SK3781	NUT HEX TOPLOCK 5/8 UNC ZINC	1	
7	20P148A	PIN 1 X 3 COMP ARM	2	
8	280569A	ROLL PIN 3/8 X 2-1/2	2	



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SWIVEL BRACKET 30 1/2 WELDMENT

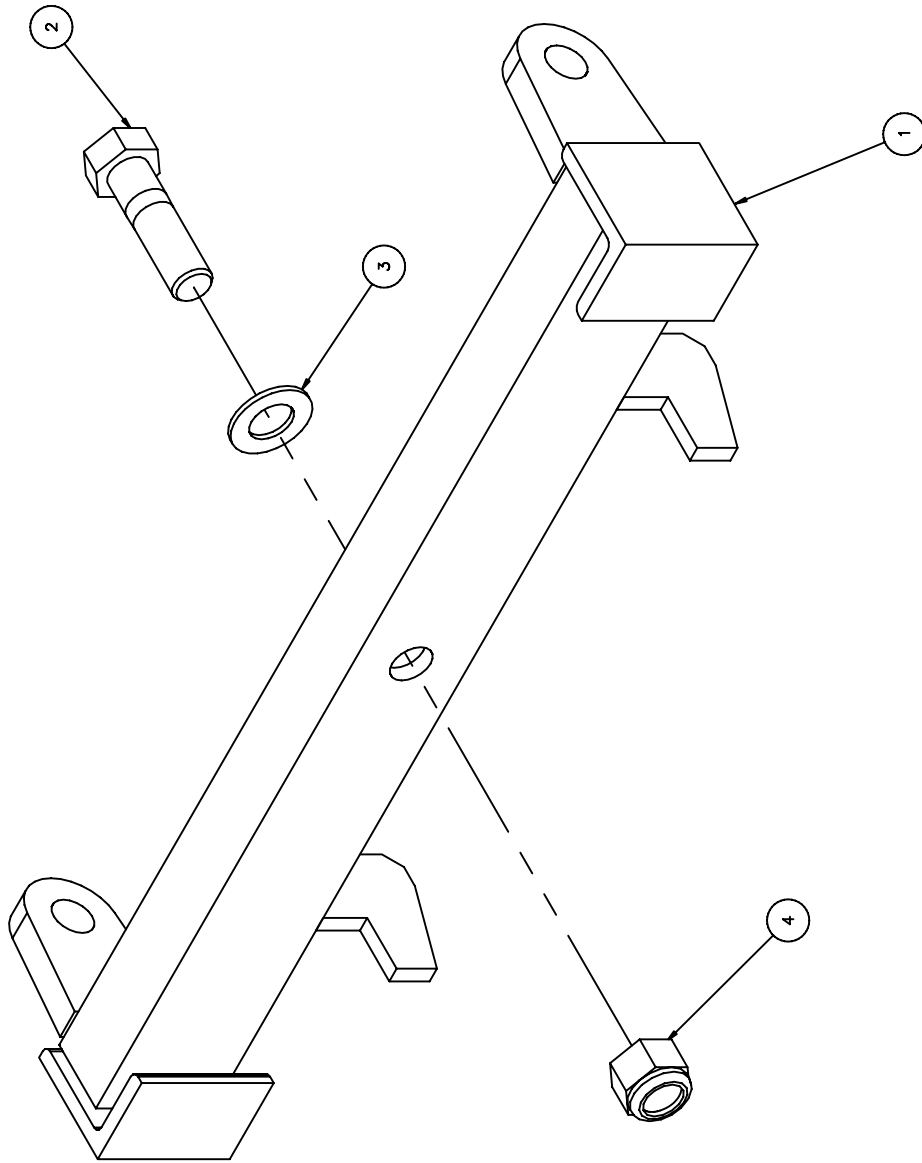


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SWIVEL BRACKET 33 5/8 WEDMENT

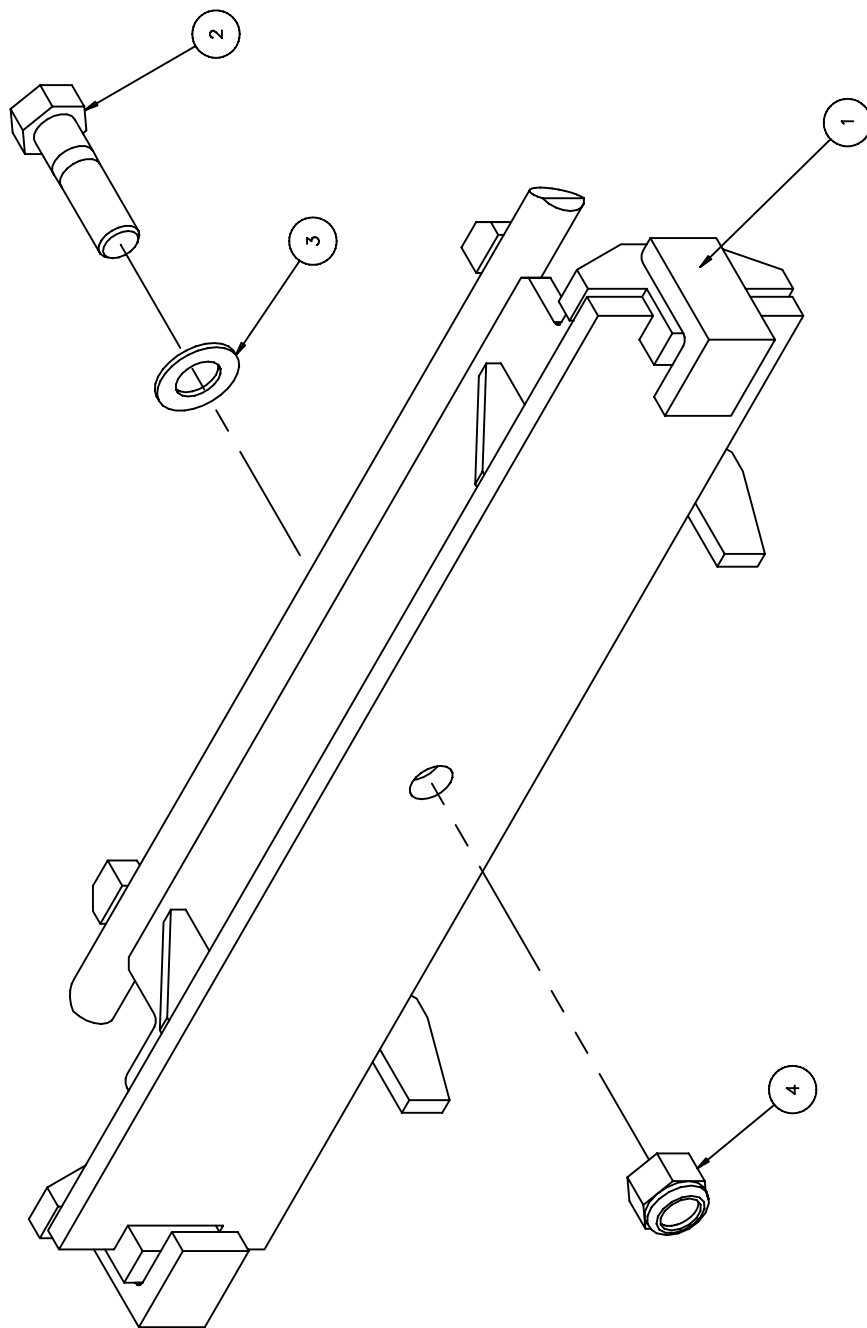


EQUIPMENT MAY NOT BE EXACTLY AS SHOWN. SOME COMPONENTS MAY BE OPTIONAL.
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QUICK HITCH WELDMENT VCL STYLE



EQUIPMENT MAY NOT BE EXACTLY AS SHOWN. SOME COMPONENTS MAY BE OPTIONAL.
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DRIVE SWIVEL OPTIONS

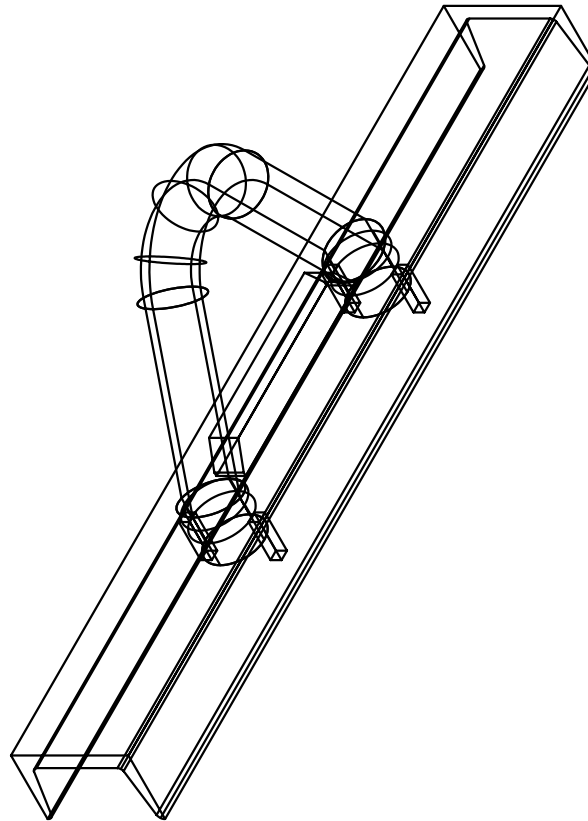
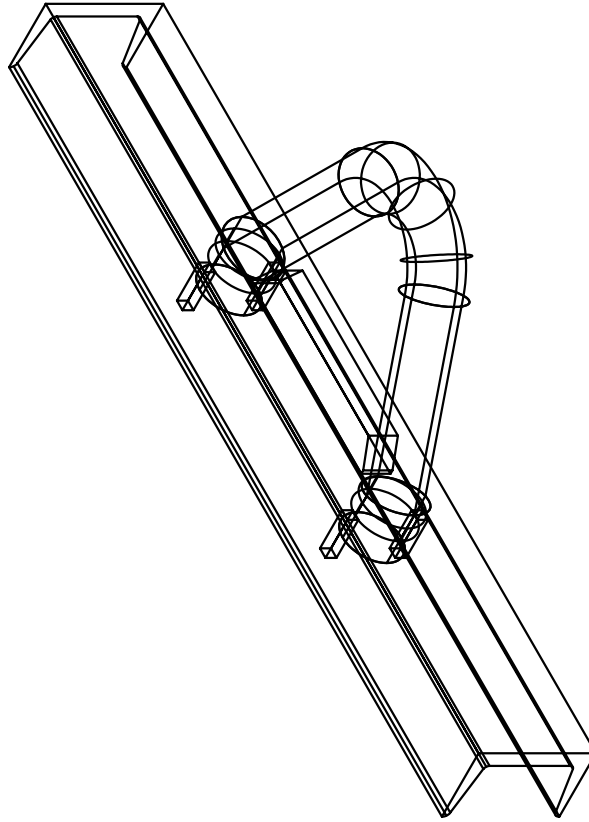
ITEM ID	ITEM NO	DESCRIPTION	QTY REQ	OPTIONAL
1	202600097	SWIVEL BRACKET 30 1/2 WELD'T	1	
2	281028A	BOLT HEX 1 1/4 X 4 1/2 UNC ZINC	1	
3	281015A	FLATWASHER USS 1 1/4 ZINC	1	
4	281007B	NUT HEX TOPLOCK 1 1/4 UNC ZINC	1	

ITEM ID	ITEM NO	DESCRIPTION	QTY REQ	OPTIONAL
1	2008179-V	SWIVEL BRACKET 33 5/8 WELD'T	1	
2	281028A	BOLT HEX 1 1/4 X 4 1/2 UNC ZINC	1	
3	281015A	FLATWASHER USS 1 1/4 ZINC	1	
4	281007B	NUT HEX TOPLOCK 1 1/4 UNC ZINC	1	

ITEM ID	ITEM NO	DESCRIPTION	QTY REQ	OPTIONAL
1	202600100	QUICK HITCH WELD'T VCL REV PUSHFRAME	1	
2	281028A	BOLT HEX 1 1/4 X 4 1/2 UNC ZINC	1	
3	281015A	FLATWASHER USS 1 1/4 ZINC	1	
4	281007B	NUT HEX TOPLOCK 1 1/4 UNC ZINC	1	



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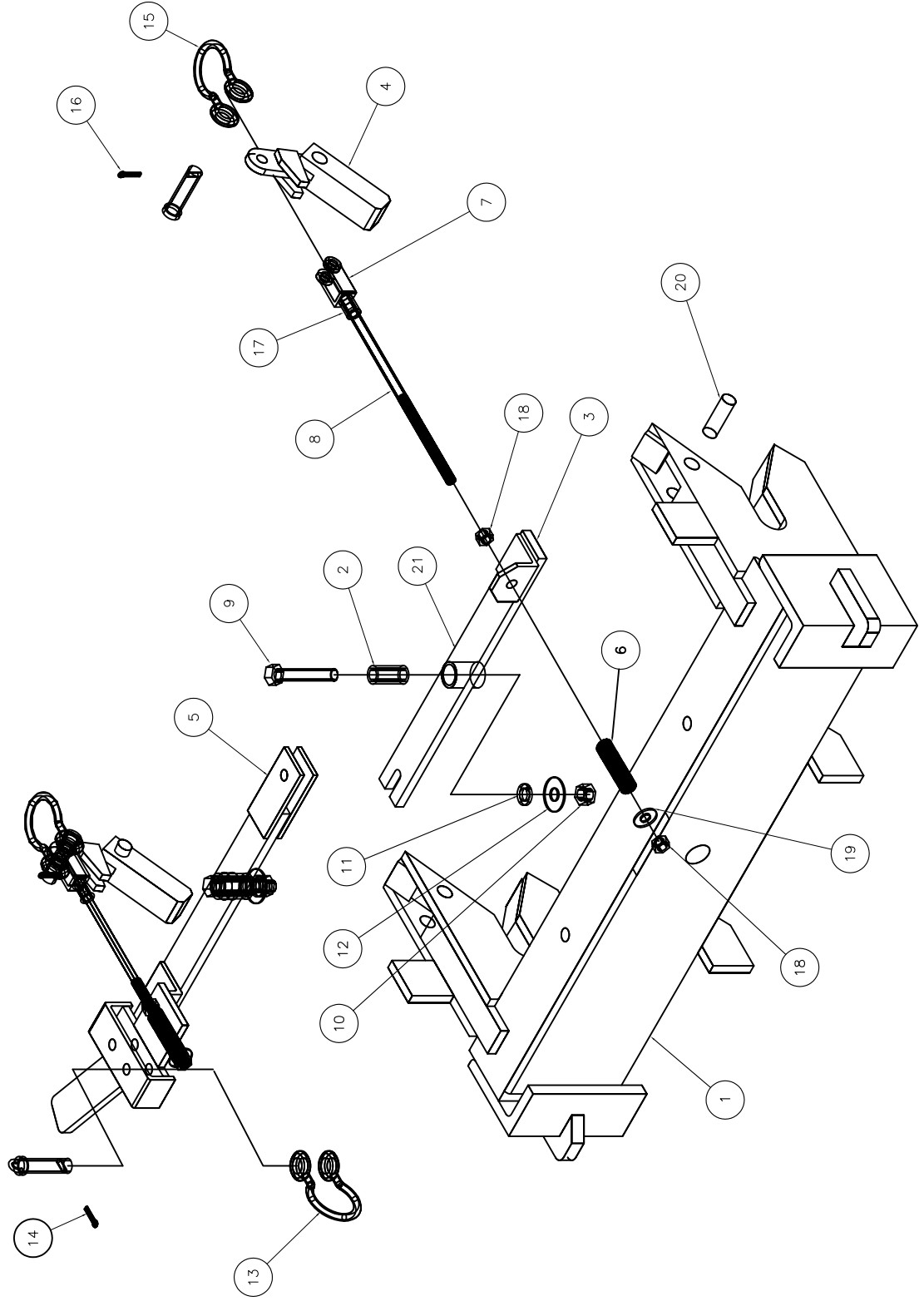
212 North Evans Road; Evansdale, Iowa 50707; Phone (319)236-7977, Fax (319)236-7980

S7315 LOOP PIN & LOOP HITCH

ITEM ID	ITEM NO	DESCRIPTION	QTY REQ	OPTIONAL
1	202600030	LOOP FOR PIN & REC.	1	



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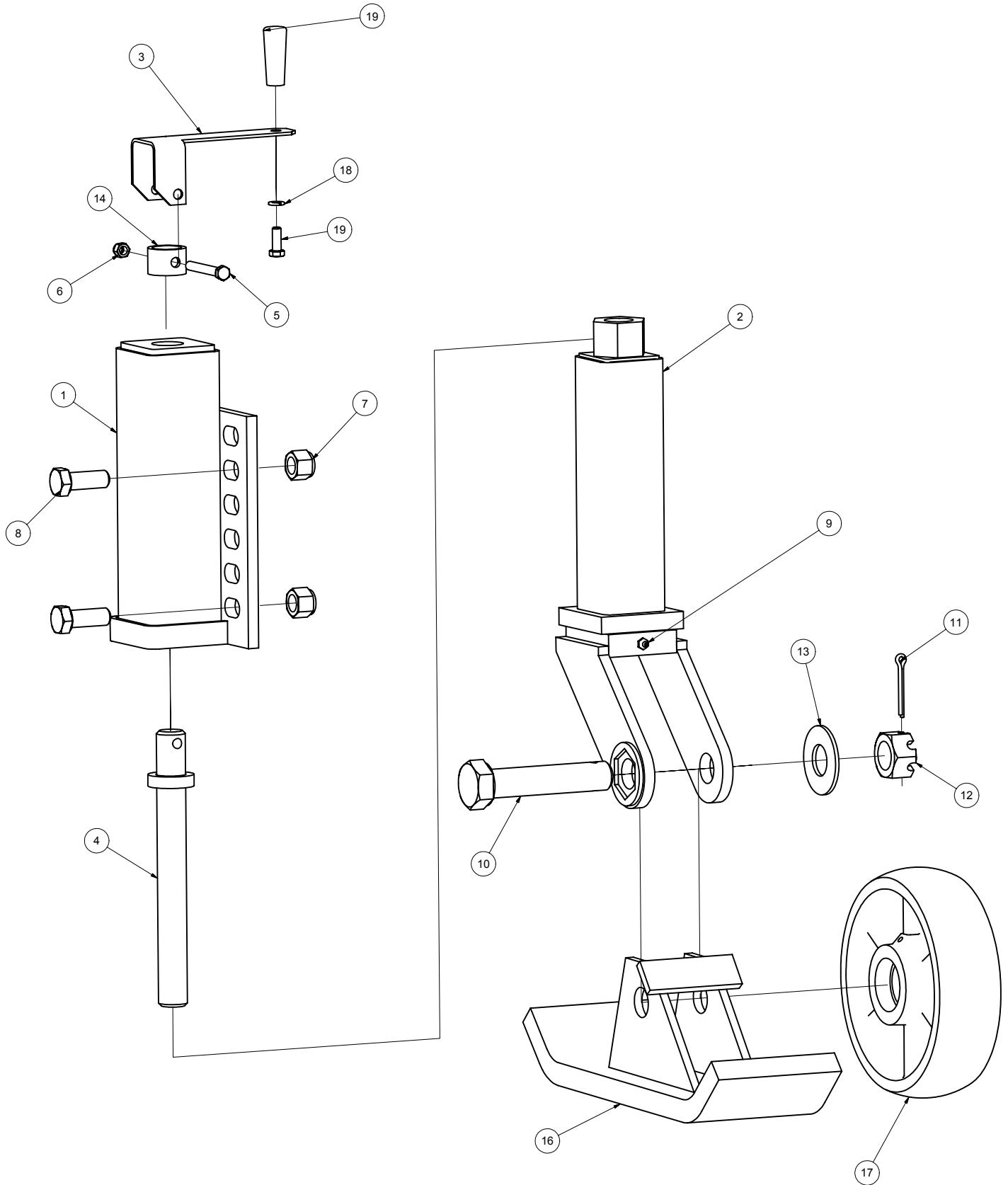


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2002505: QUICK HITCH COMPLETE ASB'Y

ITEM ID	ITEM NO	DESCRIPTION	QTY REQ	OPTIONAL
1	200101074	QUICK HITCH WELD'T	1	
2	200250535	TUBE RD 0.938M 0.625N 1.875S	2	
3	200250512	CONNECTING LINK WELD'T	1	
4	200250513	LOCKING BAR WELD'T	2	
5	200250514	HANDLE LINK WELD'T	1	
6	280385A	SPRING COMPRESSION UTILITY 7/8 RD X 2 LG	2	
7	280493	CHAIN CLEVIS YOKE ADJ 1/2	2	
8	2002505-9	STUD 0.50X11.00 0.50NF2.75 0.50NC4.50	2	
9	3SK3722	BOLT HEX 5/8 X 3 1/2 UNC ZINC	2	
10	3SK3785	NUT HEX 5/8 UNC ZINC	2	
11	3SK3772	LOCKWASHER SPLIT 5/8 ZINC	2	
12	3SK3770	FLATWASHER USS 5/8 ZINC	2	
13	280515B	CHAIN CLEVIS 1/2 RD X 2 1/4 LG	1	
14	345281	COTTER HAIR PIN 1/8 X 2 3/8 ZINC	1	
16	280517D	COTTER PIN 1/8 X 1 ZINC	2	
17	281079B	NUT HEX 1/2 UNF ZINC	2	
18	21136410	NUT HEX 1/2 UNC ZINC	6	
19	3SK3660	FLATWASHER USS 1/2 ZINC	2	
20	200250533	BAR 0.750 DIA X 2.375	2	
21	200250534	BAR 0.500 DIA X 0.750	1	

CASTER ASSEMBLY SCREW ADJUSTABLE





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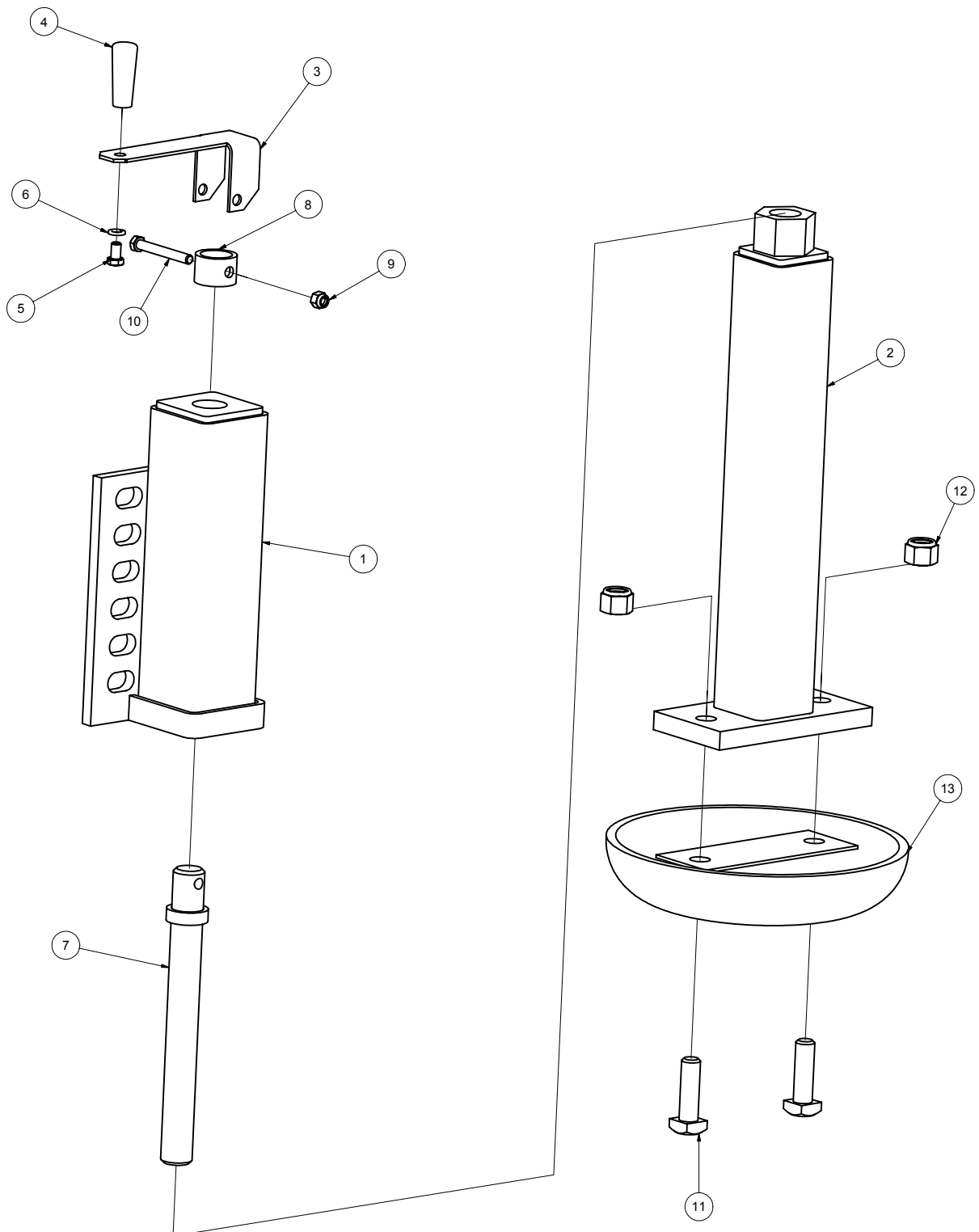
01101424: CASTER ASB'Y SCREW ADJUSTABLE

ITEM ID	ITEM NO	DESCRIPTION	QTY REQ	OPTIONAL
1	201101384	OUTER TUBE WELD'T	1	
2	201101399	INNER TUBE WELD'T	1	
3	201101441	HANDLE ASS'Y	1	
4	201101321	ADJUSTING BOLT WELD'T	1	
5	3SK3597	BOLT HEX 3/8 X 3 UNC ZINC	1	
6	3SK3591	NUT HEX TOPLOCK 3/8 UNC ZINC	1	
7	3SK3811	NUT HEX TOPLOCK 3/4	4	
8	3SK3805	BOLT 3/4 X 2-1/4 GRADE 8 HEX HD	4	
9	280577	GREASE FITTING 1/8 NPT STR	1	
10	200401578	AXLE BOLT 1 1/4 X 5 5/16 CH	1	
11	280508A	COTTER PIN 1/4 X 2-1/2	1	
12	2HW31C-20	NUT HEX SLOTTED 1 1/4 UNF ZINC	1	
13	281015A	FLATWASHER USS 1 1/4 ZINC	1	
14	201101324	STOP COLLAR	1	
15	201101329	SHOE WELD'T - 1 IN AXLE BOLT	1	*
	201101329-A	SHOE WELD'T - 1 1/4 IN AXLE	1	*
16	201101329A-C	SHOE WELD'T - 1-1/4 W/CARBIDE INSERTS	1	
17	2180122	CASTER WHEEL 10 IN WITH BEARING CUP	1	*
18	280120	CASTER WHEEL 8 IN WITH BEARING CUP	1	*
	2180120A	CASTER WHEEL 8 IN WITH OUT BEARING CUP	1	
19	280593	BEARING CONE ASBY	2	*
20	280594	BEARING CUP	2	*
21	233688	LOCKWASHER SPLIT 3/8 ZINC	1	
22	215105	BOLT HEX 3/8 X 1 UNC ZINC	1	



212 NORTH EVANS ROAD, EVANSDALE, IOWA 50707 (319)236-7977 PH (319)236-7980 FX

MUSHROOM ASSEMBLY SCREW ADJUSTABLE



ITEM #13 IS SOLD UNDER PART
#280109A OR #280110A NOT
WITH REST OF ASSEMBLY

EQUIPMENT MAY NOT BE EXACTLY AS SHOWN. SOME COMPONENTS MAY BE OPTIONAL.
TO MAINTAIN OUR ON-GOING PRODUCT AND DEVELOPMENT IMPROVEMENT PROGRAM, VIKING-CIVES RESERVES THE RIGHT TO CHANGE EQUIPMENT & SPECIFICATION WITHOUT NOTICE.



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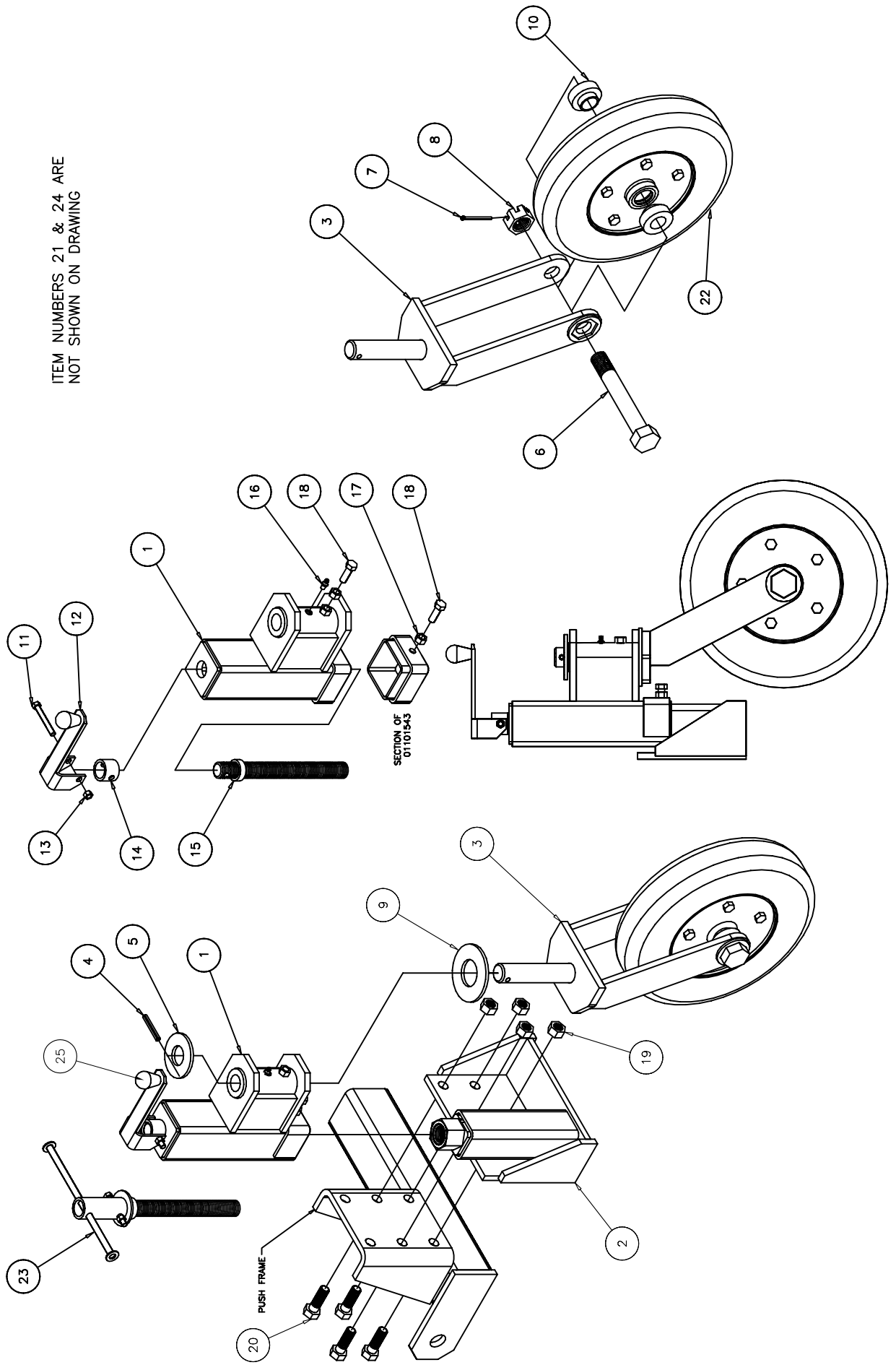
201101846: MUSHROOM ASB'Y SCREW ADJUSTABLE

ITEM ID	ITEM NO	DESCRIPTION	QTY REQ	OPTIONAL
1	01101384	OUTER TUBE WELDMENT	1	*
2	201101784	TUBE ASB'Y INNER	1	*
3	301101305	ADJUSTING HANDLE WELDMENT	1	*
4	20620005	HANDLE	1	*
5	215105	BOLT 3/8 X 1 HCS	1	*
6	3SK3595	3/8 FLATWASHER	1	*
7	201101321	ADJUSTING BOLT WELDMENT	1	*
8	201101324	STOP COLLAR	1	*
9	3SK3591	NUT 3/8 16 TOP LOCK	1	*
10	3SK3597	BOLT 3/8 X 3 GRADE 5 HCS	1	*
11	281065B	BOLT 3/4 X 2 1/2 NC SQ HD GRADE 5	2	*
12	3SK3811	NUT 3/4 TOP LOCK	2	*
13	280109A 280110A	SHOE 12 DIA MUSHROOM ALLOY SHOE 12 DIA MUSHROOM NI HARD	1	*



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ITEM NUMBERS 21 & 24 ARE
NOT SHOWN ON DRAWING



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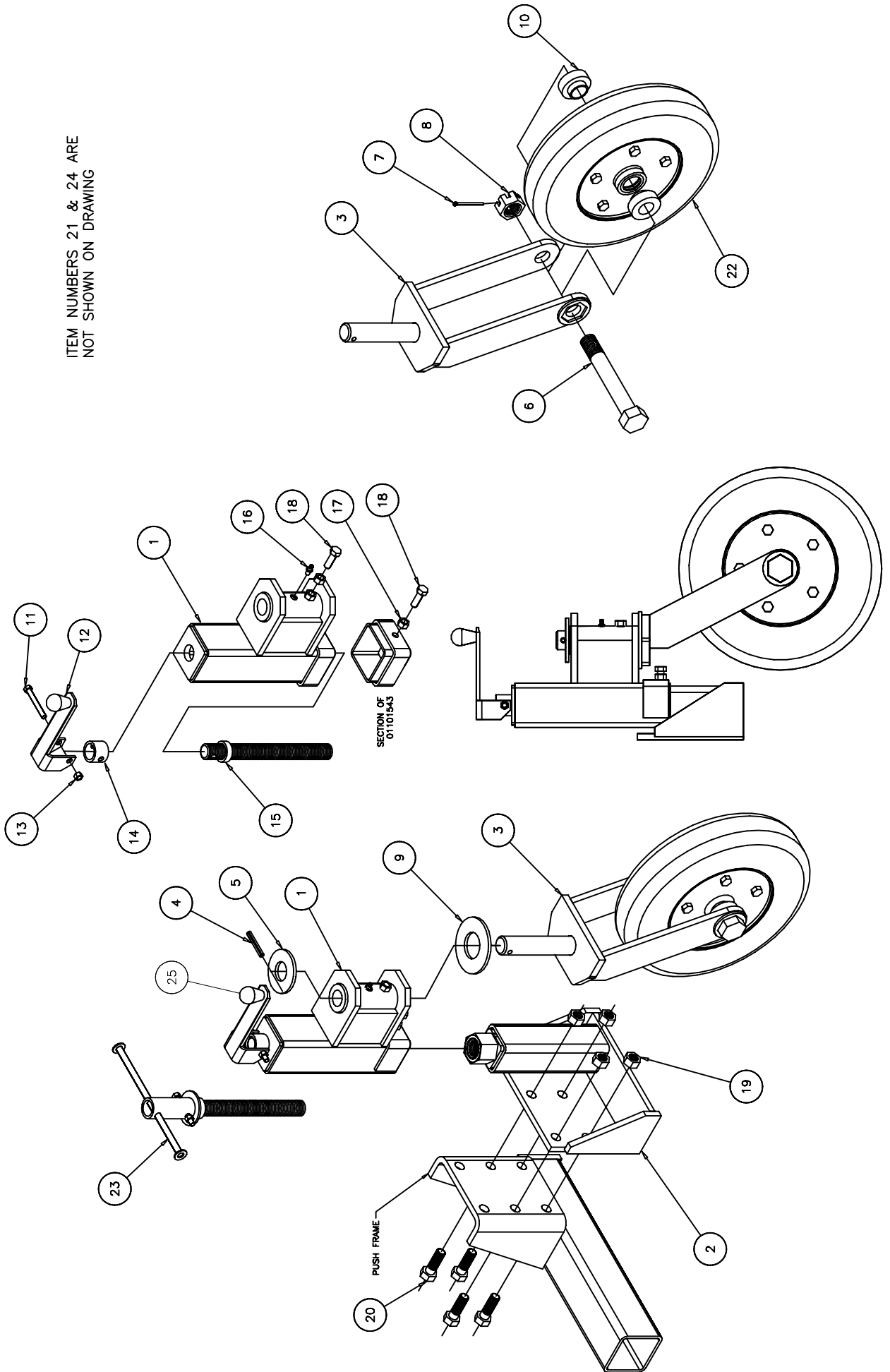
01101695: PNEUMATIC CASTER WHEEL ASB'Y LTH

ITEM ID	ITEM NO	DESCRIPTION	QTY REQ	OPTIONAL
1	201101543	OUTER TUBE WELD'T, PNEUMATIC CASTOR	1	
2	200101532	4 BOLT PNEUMATIC WHEEL MTG BRK'T LTH	1	
3	201101325	WHEEL FORK WELD'T	1	
4	280569A	ROLL PIN 3/8 X 2 1/2 ZINC	1	
5	3SK3860	FLATWASHER USS 1 1/2 ZINC	1	
6	200900067	PIN 1.2500 DIA X 7.500	1	
7	280508A	COTTER PIN 1/4 X 2 ZINC	1	
8	281006	NUT HEX SLOTTED 1 1/4 UNC ZINC	1	
9	233812	FLATWASHER SAE 2" ZINC	1	
10	201102005	FORK AXLE BUSHING	2	
11	3SK3597	BOLT HEX 3/8 X 3 UNC ZINC	1	
12	201101305	HANDLE ASSEMBLY	1	
13	3SK3591	NUT HEX TOPLOCK 3/8 UNC ZINC	1	
14	201101324	STOP COLLAR	1	
15	201101321	ADJUSTING BOLT WELD'T	1	
16	280577	GREASE FITTING 1/8 NPT STR	1	
17	21136410	NUT HEX 1/2 UNC ZINC	2	
18	3SK3600	BOLT HEX 1/2 X 1 1/2 UNC ZINC	2	
19	3SK3811	NUT TOPLOCK 3/4 UNC ZINC	4	*
20	3SK3805	BOLT HEX 3/4 X 2 1/4 UNC ZINC	4	*
21	2GS-4	GREASE SEAL	2	
22	2DM408C-51	TIRE & WHEEL ASS'Y	1	*
23	201101714	HANDLE ASSEMBLY T-STYLE	1	*
24	2H812	HUB ASSEMBLY	1	
25	20620005	KNOB	1	



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01101696: PNEUMATIC CASTER WHEEL ASB'Y RTH

ITEM ID	ITEM NO	DESCRIPTION	QTY REQ	OPTIONAL
1	201101543	OUTER TUBE WELD'T, PNEUMATIC CASTOR	1	
2	200101649	4 BOLT PNEUMATIC WHEEL MTG BRK'T RTH	1	
3	201101325	WHEEL FORK WELD'T	1	
4	280569A	ROLL PIN 3/8 X 2 1/2 ZINC	1	
5	3SK3860	FLATWASHER USS 1 1/2 ZINC	1	
6	200900067	PIN 1.2500 DIA X 7.500	1	
7	280508A	COTTER PIN 1/4 X 2-1/2 ZINC	1	
8	281006	NUT HEX SLOTTED 1 1/4 UNC ZINC	1	
9	233812	FLATWASHER SAE 2" ZINC	1	
10	201102005	FORK AXLE BUSHING	2	
11	3SK3597	BOLT HEX 3/8 X 3 UNC ZINC	1	
12	211101016	HANDLE ASSEMBLY	1	
13	3SK3591	NUT HEX TOPLOCK 3/8 UNC ZINC	1	
14	201101324	STOP COLLAR	1	
15	201101321	ADJUSTING BOLT WELD'T	1	
16	280577	GREASE FITTING 1/8 NPT STR	1	
17	21136410	NUT HEX 1/2 UNC ZINC	2	
18	3SK3600	BOLT HEX 1/2 X 1 1/2 UNC ZINC	2	
19	3SK3811	NUT TOPLOCK 3/4 UNC ZINC	4	*
20	3SK3805	BOLT HEX 3/4 X 2 1/4 UNC ZINC	4	*
21	2GS-4	GREASE SEAL	2	
22	2DM408C-51	WHEEL & HUB ASS'Y	1	*
23	201101714	HANDLE ASSEMBLY T-STYLE	1	*
24	2H812	HUB ASSEMBLY	1	
25	20620005	KNOB	1	



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RUBBER DEFLECTOR OPTIONS

ASSEMBLY NO.	ITEM NO	DESCRIPTION	QTY REQ	OPTIONAL
N/A	S7350	RUBBER DEFLECTOR 10FT INSTALLED	1	*
N/A	S7351	RUBBER DEFLECTOR 11FT INSTALLED	1	*
N/A	S7352	RUBBER DEFLECTOR 12FT INSTALLED	1	*

NOTE: All Deflector Installation Kits include the following standard items:

- 3/8 X 12 inch 3 PLY Rubber deflector (length as required)
- 3/16 X 2 inch Deflector plate washer (length as required)
- All required mounting hardware



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APPENDIX



212 North Evans Road; Evansdale, Iowa 50707; Phone (319)236-7977, Fax (319)236-7980

HYDRAULIC CYLINDERS

ITEM NO	DESCRIPTION	QTY REQ	OPTIONAL
280153	CYLINDER HYD DA 3 X 9 1/4 2IN ROD DIA	1	