

Owner's Manual

POWER REVERSING UNDERBODY SCRAPER





GENERAL OPERATING INSTRUCTIONS

- 1. The operator should familiarize him/herself 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. See cab control layout. All levers are clearly marked as to the equipment/function they control.
- 3. To raise the scraper, pull back on the appropriate control lever, to lower the scraper, push the control lever forward. To reverse the scraper from left to right, move the appropriate control lever left and/or right. **NOTE:** The in cab controls are proportional to the hydraulic valve, therefore the further the control lever is moved the faster the scraper will raise, lower, and reverse.
- 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 be 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 Midwest, Inc.

REGISTRATION OF EQUIPMENT AND WARRANTY INFORMATION

Before using equipment check for damage. Report any damage to equipment at once to Viking-Cives Midwest, Inc. The warranty period becomes effective upon date of delivery of equipment unless other arrangements have been made with a Viking-Cives Midwest, Inc. distributor or Viking-Cives Midwest, Inc. The information required to register the equipment may be found on the serial number tag secured to the equipment.

A WORD ABOUT SAFETY

The equipment described in this manual is normally being operated in winter conditions with bad weather and snow & ice conditions. Due to these adverse operating conditions it is important that you the operator use good safety practices at all times to protect yourself, co-workers, and others when using the equipment.

This manual does not list all the hazards associated with the operation and maintenance of this equipment. The operator must use his/her own good judgment supplemented with the information found on the safety decals, instructions in this manual, your employer's safety programs, safety codes, local, state/provincial, and federal laws, rules and regulations.

When operating/performing maintenance on this equipment, and troubleshooting equipment operations, observe and obey all safety decals on the equipment and warnings listed in the manual. Failure to do so could result in damage to equipment, serious bodily injury and/or death.

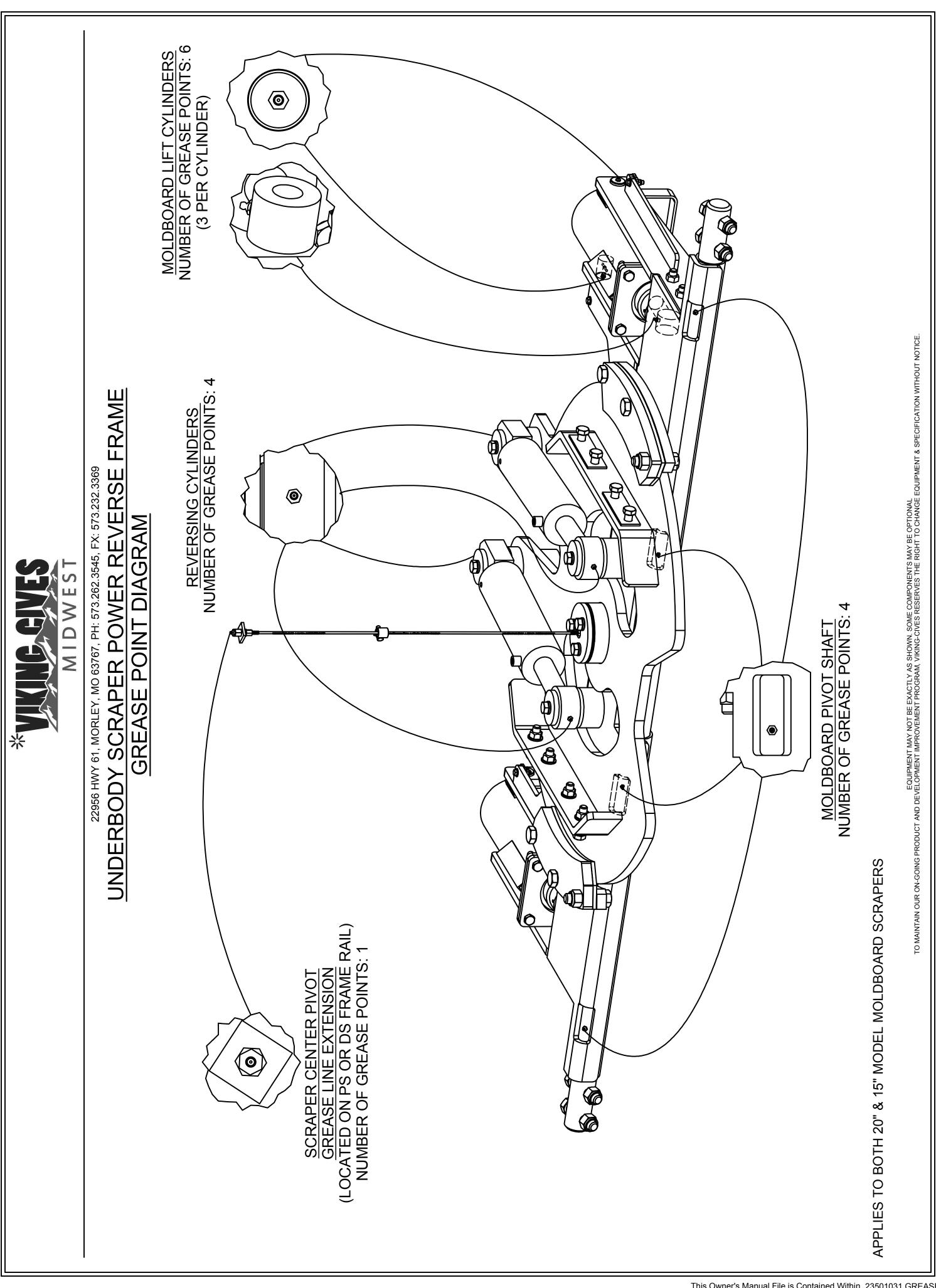
Remember at all times that the operator is responsible for the safe operation of this equipment and responsible for the safety of others. Good safety practices not only protect you but also protect the people around you.



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 gauge indicates low hydraulic fluid level, add the appropriate amount of the specified hydraulic fluid and check gauge again to ensure it is functioning correctly. Cold Weather Operation: All equipment is designed to operate with hydraulic oil minimally warm. During cold weather conditions, it is recommended that the truck be run at idle with the pump engaged and circulating the oil through the system before operating equipment.
- 2. Check all components for loose and/or missing fasteners, if required tighten and/or replace.
- 3. Visually inspect all battery terminals and electrical connections, wires, switches, etc. for signs of corrosion, wear, loose and/or broken connections, etc. At the beginning of each shift review all lighting accessories to ensure proper working conditions, immediately replace any broken or non-functioning bulbs and/or lenses.
- 4. Visually inspect all hydraulic connections and hoses for cracks and/or leaks. Rupturing hoses may produce a high-pressure stream of hot hydraulic oil.
- 5. Check all cables and chains for excessive wear or damage.
- 6. Visually inspect plow units. Check cutting edges. If cutting edge has excessive wear remove and rotate, or if required, replace. **CAUTION:** Do not allow cutting edge to wear down to moldboard of the scraper. Any wear to the moldboard may affect the operation and safety of the equipment. Replacement is costly.
- 7. Thoroughly grease all grease points as indicated on the **Grease Point Diagram**.
- 8. 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.



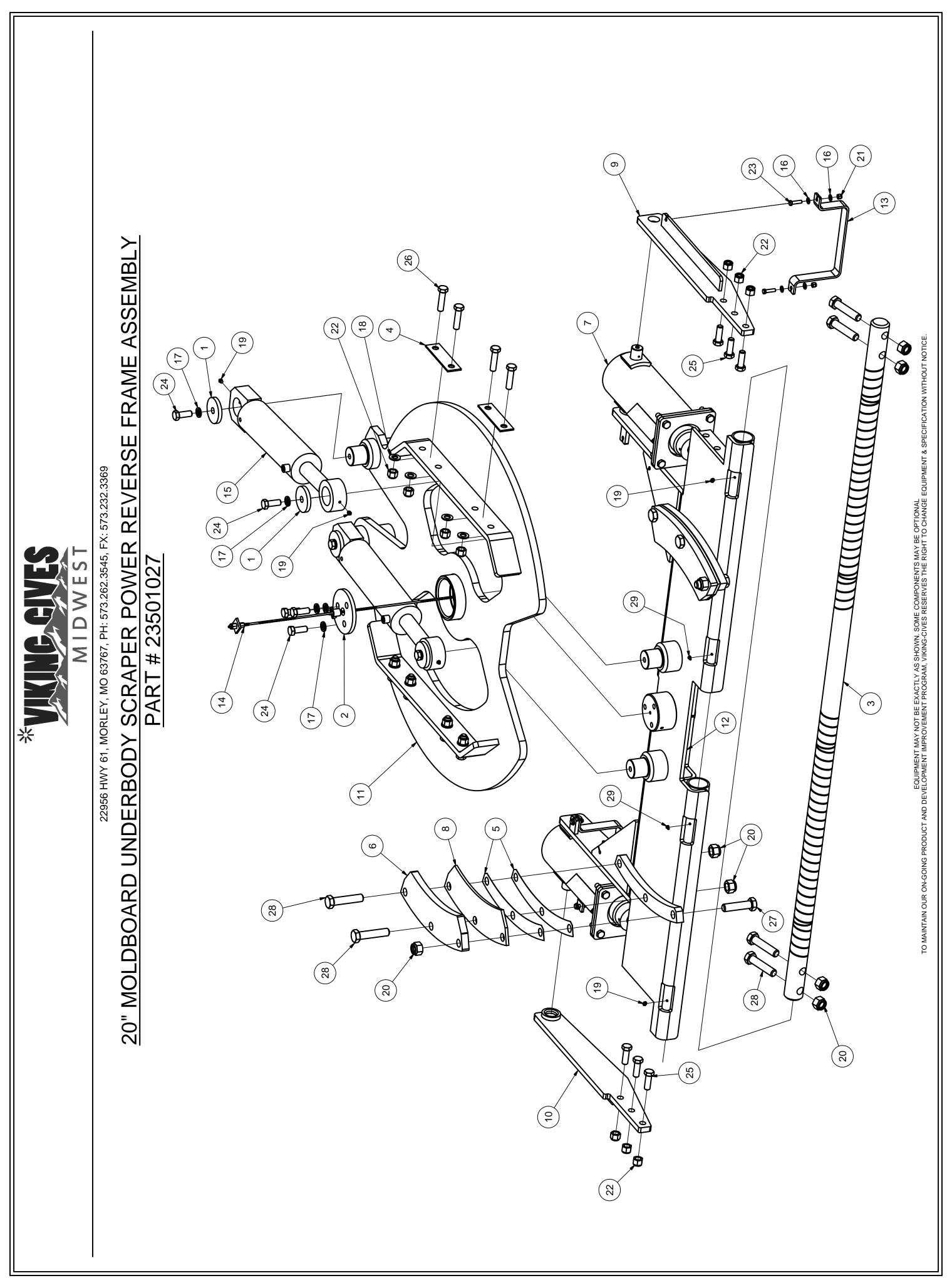


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20" MOLDBOARD SCRAPERS

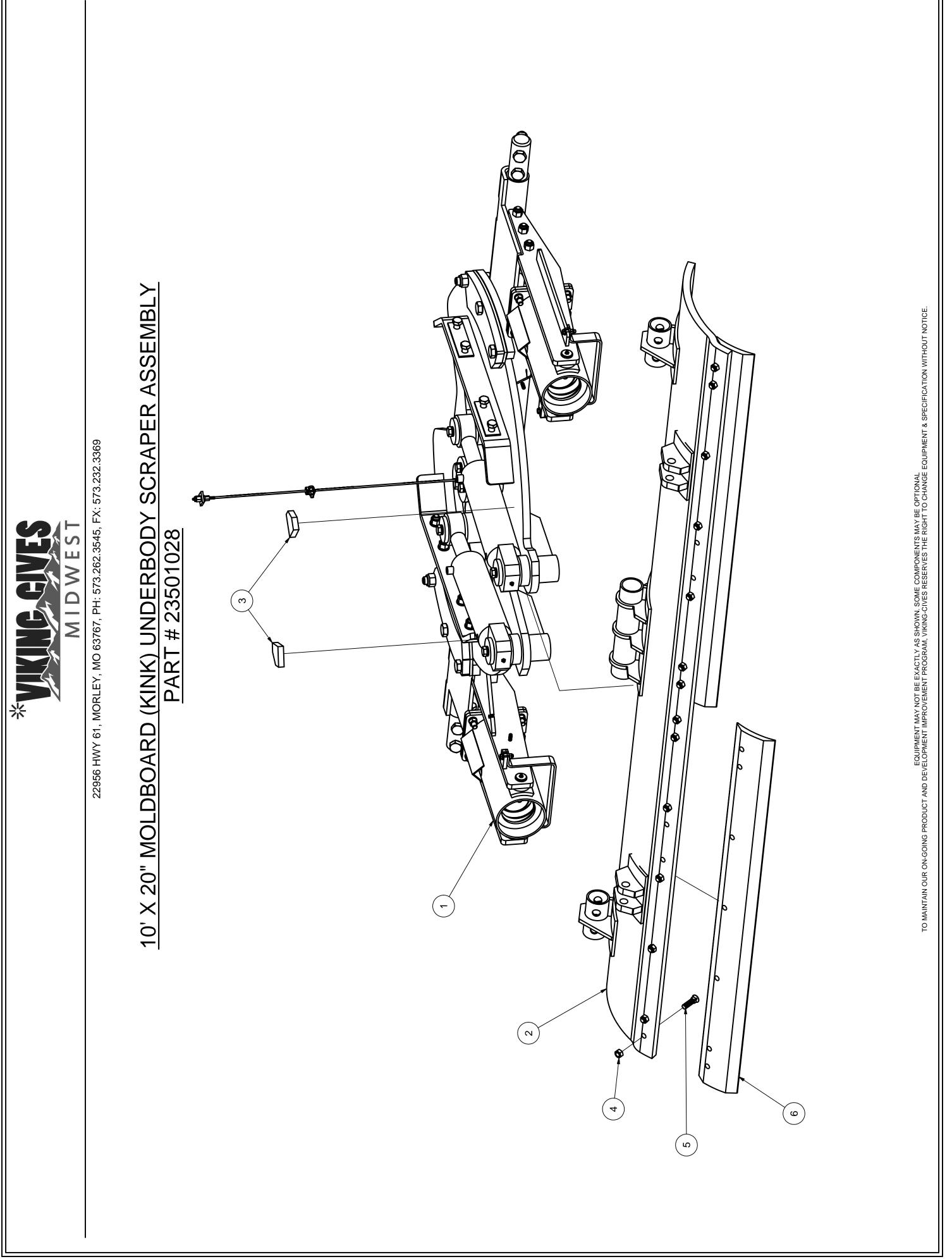
EQUIPMENT MAY NOT BE EXACTLY AS SHOWN. SOME COMPONENTS MAY BE OPTIONAL TO MAINTAIN OUR ON-GOING PRODUCT AND DEVELOPMENT IMPROVEMENT PROGRAM, VIKING-CIVES RESERVES THE RIGHT TO CHANGE EQUIPMENT & SPECIFICATION WITHOUT NOTICE.





20" MOLDBOARD UNDERBODY SCRAPER POWER REVERSE FRAME ASSEMBLY PART # 23501027

	TH TH 2015)		
0 X 2 UU X U 1875	SPACER 7.000 X 2.000 X 0.1875 IM PLATE UNDERBODY SCRAPER LOWER CLAMP MOLDBOARD LIFT CYL ASS'Y WEAR PLATE WELD'T RTH CIRCLE WELD'T - 5IN (2015) ORT TUBE WELD'T - FORMED (2015) CYLINDER STOP BAR	SPACER 7.000 X 2.000 X 0.1875 SHIM PLATE UNDERBODY SCRAPER LOWER CLAMP MOLDBOARD LIFT CYL ASS'Y WEAR PLATE OUTER SUPPORT PLATE WELD'T LTH OUTER SUPPORT PLATE WELD'T LTH CIRCLE WELD'T - 5IN (2015) SUPPORT TUBE WELD'T - FORMED (2015 CYLINDER STOP BAR REMOTE GREASE ZERK ASSEMBLY UBS CYLINDER HYD DA 4 X 12 ROTATION UB FLATWASHER SPLIT 3/4 ZINC FLATWASHER SPLIT 3/4 ZINC	SPACER 7.000 X 2.000 X 0.1875 SHIM PLATE UNDERBODY SCRAPER LOWER CLAMP MOLDBOARD LIFT CYL ASS'Y WEAR PLATE OUTER SUPPORT PLATE WELD'T RTH OUTER SUPPORT PLATE WELD'T LTH CIRCLE WELD'T - 5IN (2015) JPPORT TUBE WELD'T - FORMED (201 CYLINDER STOP BAR EMOTE GREASE ZERK ASSEMBLY UB CYLINDER SAE 3/8 ZINC LOCKWASHER SAE 3/8 ZINC LOCKWASHER SPLIT 3/4 ZINC FLATWASHER HARDENED 3/4 ZINC CERK GREASE 1/4 -28 STRAIGHT NPT NUT HEX ELASTIC 1" UNC ZINC NUT HEX ELASTIC 3/4" UNC ZINC ROIT HEX 3/8 X 1 1/2 INC ZINC
1 PLATE UNDERBO	LOWER CLAMP MOLDBOARD LIFT CYL ASS'N WEAR PLATE TER SUPPORT PLATE WELD'T FER SUPPORT PLATE WELD'T CIRCLE WELD'T - 5IN (2015) ORT TUBE WELD'T - FORMED CYLINDER STOP BAR	LOWER CLAMP MOLDBOARD LIFT CYL ASS'Y WEAR PLATE TER SUPPORT PLATE WELD'T CIRCLE WELD'T - 5IN (2015) ORT TUBE WELD'T - FORMED CYLINDER STOP BAR OTE GREASE ZERK ASSEMBLY NDER HYD DA 4 X 12 ROTATIO FLATWASHER SAE 3/8 ZINC LOCKWASHER SPLIT 3/4 ZINC ATWASHER HARDENED 3/4 ZI	LOWER CLA AOLDBOARD LIFT WEAR PLA ER SUPPORT PLA ER SUPPORT PLA ER SUPPORT PLA CIRCLE WELD'T CYLINDER STC CYLINDER STC CYLINDER STC CYLINDER STC TE GREASE ZERK DER HYD DA 4 X 1 FLATWASHER HARDE COCKWASHER HARDE COCKWASHER HARDE TWASHER HARDE TWASHER HARDE THEX ELASTIC 3 THEX ELASTIC 3 THEX ELASTIC 3
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10' X 20" MOLDBOARD (KINK) UNDERBODY SCRAPER ASSEMBLY PART # 23501028

ITEM	DRAWING NO.	ALT. ITEM NO.	DESCRIPTION	QTY
	23501027		UBS PWR REV FRAME ASS'Y FORMED (2015)	_
	23503056		10 FT UBS MOLDBOARD WELDMENT (KINKED)	_
	23505009	00734329	GUSSET 90 3.25X2.75 1.25X1.75 0.75T	2
	HW30E-10		NUT HEX 5/8 UNC TOPLOCK ZINC	14
<u> </u>	HW42B-1020	81074C	BOLT PLOW 5/8 X 2 1/2 UNC ZINC	14
	0500073		BLADE GRADER 5/8 X 6 X 60	2

This Owner's Manual File is Contained Within 23501028-1-1.idw



10' X 20" MOLDBOARD (NO KINK) UNDERBODY SCRAPER ASSEMBLY PART # 23501033 **PART**

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EQUIPMENT MAY NOT BE EXACTLY AS SHOWN. SOME COMPONENTS MAY BE OPTIONAL TO CHANGE EQUIPMENT & SPECIFICATION WITHOUT NOTICE.



O KINK) UNDERBODY SCRAPER ASSEMBLY PART # 23501033 10' X 20" MOLDBOARD (N

TEM	DRAWING NO.	ALT. ITEM NO.	DESCRIPTION	QTY
	23501027		UBS PWR REV FRAME ASS'Y FORMED (2015)	1
	23503018		10 FT UBS MOLDBOARD WELDMENT NO KINK	1
	23505009	00734329	GUSSET 90 3.25X2.75 1.25X1.75 0.75T	2
	HW30E-10		NUT HEX 5/8 UNC TOPLOCK ZINC	16
2	HW40B-1020	81074C	BOLT PLOW 5/8 X 2 1/2 UNC ZINC	16

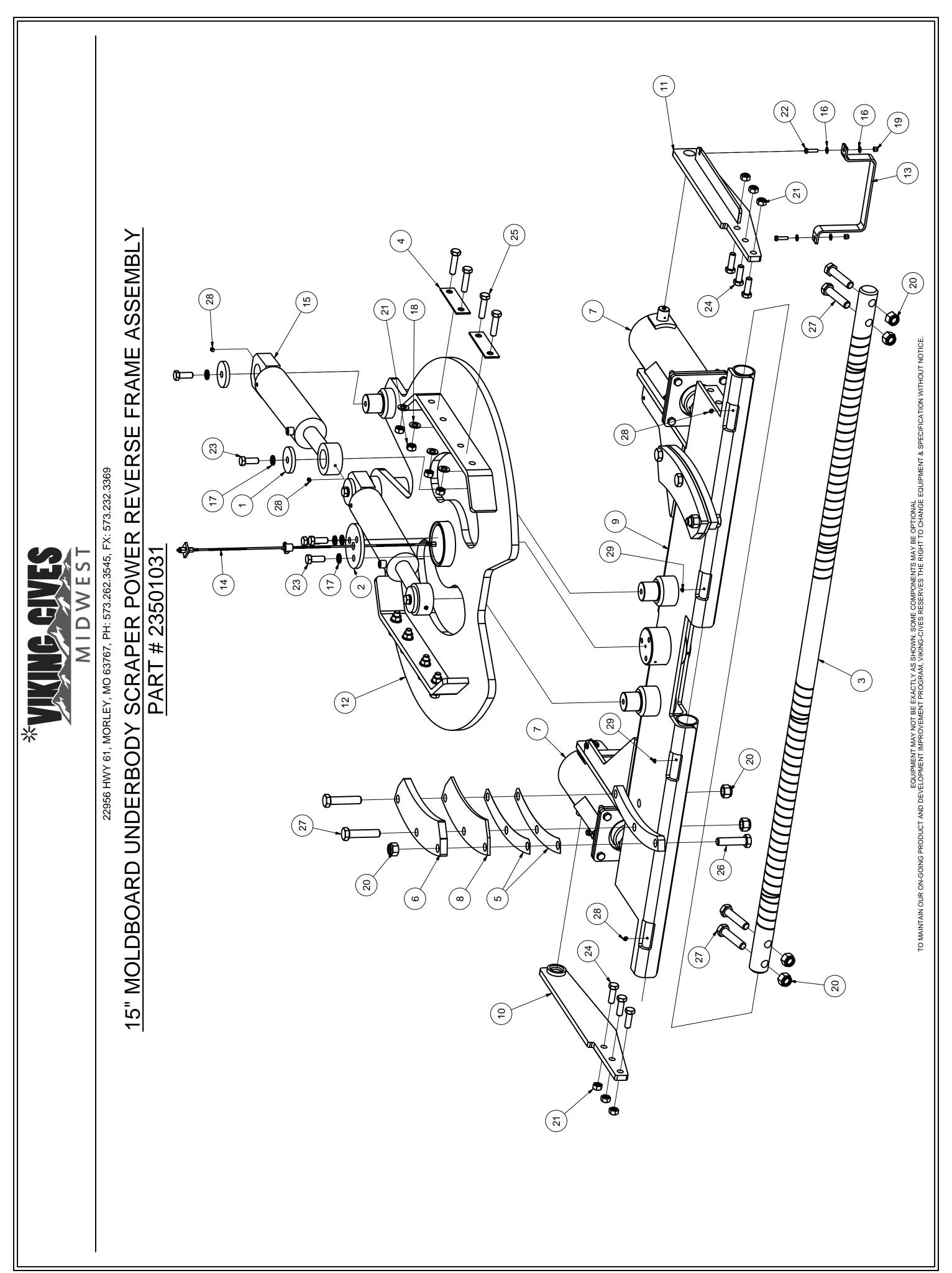


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15" MOLDBOARD SCRAPERS

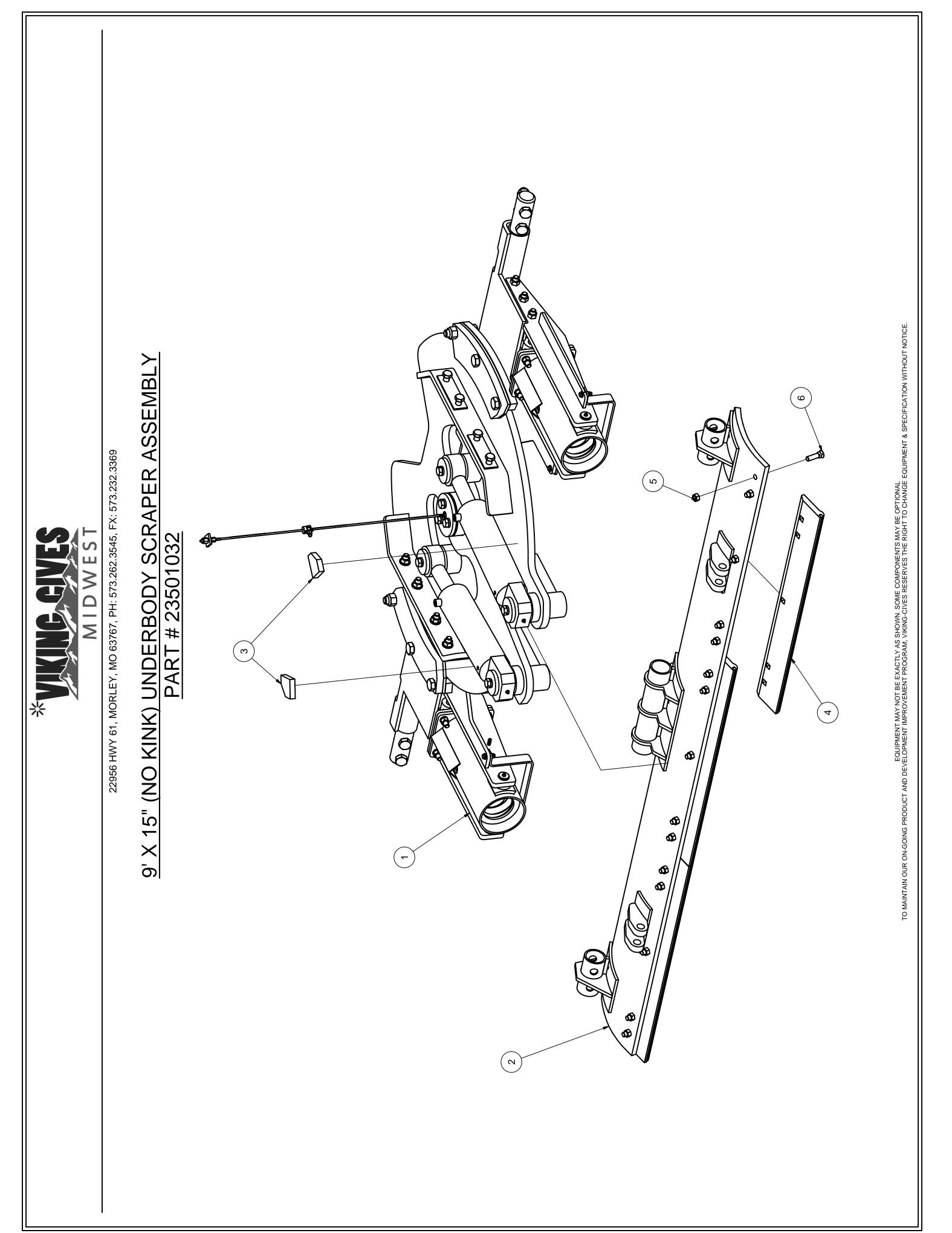
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DY SCRAPER POWER REVERSE FRAME ASSEMBLY PART # 23501031 15" MOLDBOARD UNDERBO

QTY	4	_	_	4	4	2	2	2	1	1	_	_	2		2	8	7	8	4	10	14	4	7	9	8	2	8	9	7
DESCRIPTION	BUSHING 3.50B 0.813D 0.500N	BUSHING 6.00B 0.813D 0.500N	PIVOT SHAFT 2.500 X 103.500		SHIM PLATE UNDERBODY SCRAPER	LOWER CLAMP	MOLDBOARD LIFT CYL ASS'Y	WEAR PLATE	SUPPORT TUBE WELD'T - SPECIAL 9 FT X 15 IN	OUTER SUPPORT PLATE WELD'T LTH	OUTER SUPPORT PLATE WELD'T RTH	CIRCLE WELD'T - 5IN (2015) SMALL FORMED BAR 15" MOLDBOARD	CYLINDER STOP BAR	REMOTE GREASE ZERK ASSEMBLY UBS	CYLINDER HYD DA 4 X 12 ROTATION UB	FLATWASHER SAE 3/8 ZINC	LOCKWASHER SPLIT 3/4 ZINC	FLATWASHER HARDENED 3/4 ZINC	NUT HEX ELASTIC 3/8 UNC ZINC	NUT HEX ELASTIC 1" UNC ZINC	NUT HEX 3/4 UNC TOPLOCK ZINC	BOLT HEX 3/8 X 1 1/2 UNC ZINC	BOLT HEX 3/4 X 2 UNC ZINC	BOLT HEX 3/4 X 2 1/4 UNC ZINC	BOLT HEX 3/4 X 3 UNC ZINC	BOLT HEX 1 X 4 UNC ZINC	BOLT HEX 1 X 4 1/2 UNC ZINC	ZERK GREASE 1/4 -28 STRAIGHT NPT	ZERK GREASE 1/4 -28 45 DEG NPT
ALT. ITEM NO.	4906		4876	5273	4908	4909									80182		81062		81086C			81091	81064E	81064F		81022	81022	60105	60106
DRAWING NO.	00401735	00401771	03500039	03500043	03500045	03500046	03500072	03500077	23503030	23503032	23503033	23503047	23522041	43140002	55401014	HW14A-06	HW14C-12	HW16A-12	HW30D-06	HW30D-16	HW30E-12	HW40A-0612	HW40A-1216	HW40A-1218	HW40A-1224	HW40A-1632	HW40A-1636	BENCHSTOCK	BENCHSTOCK
ITEM	-	7	က	4	2	9	7	8	6	10	7	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29





9' X 15" (NO KINK) UNDERBODY SCRAPER ASSEMBLY PART # 23501032

QTY	1	1	2	8	15	15
DESCRIPTION	UBS PWR REV FRAME ASS'Y FORMED (2015) 9' UBS	9' X 15" UBS MOLDBOARD WELDMENT NO KINK	GUSSET 90 3.25X2.75 1.25X1.75 0.75T	3' REVERSED CARBIDE UBS CUTTING EDGE	NUT HEX 5/8 UNC TOPLOCK ZINC	BOLT PLOW 5/8 X 2 1/2 UNC ZINC
ALT. ITEM NO.			00734329	CB3131531CMR		81074C
DRAWING NO.	23501031	23503029	23505009	280062	HW30E-10	HW40B-1020
ITEM	_	2	3	4	5	9



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*** LIMITED WARRANTY ***

Viking - Cives Midwest, Inc. warrants products of its manufacture against defects in workmanship and material for a period of one year from date of shipment to customer; and 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 Midwest, Inc.** Inc. This warranty will not apply to any product which shall have been repaired or altered outside of the **Viking - Cives Midwest, Inc.** factory in any way so as, in **Viking - Cives Midwest, Inc.** sole judgment, to affect its stability or reliability, nor which has been subjected to misuse, negligence or accident.

The obligations of **Viking - Cives Midwest, Inc.** under this limited warranty are limited to the replacement of defective parts as set forth above; such obligations are exclusive and in lieu of all other remedies, warranties, guarantees or liabilities, express or implied, with respect to each product delivered hereunder, arising by law or otherwise (including without limitation any obligation or liability of **Viking - Cives Midwest, Inc.**, arising from negligence or with respect to fitness for a particular purpose, merchantability, loss or use, revenue or profit, or any incidental, indirect, special or consequential damages or injuries; and all other remedies, warranties, guarantees, or liabilities are hereby expressly excluded and disclaimed. This limited warranty shall not be extended, altered, or varied except by a written instrument signed by **Viking - Cives Midwest, Inc.**

Viking - Cives Midwest, Inc. assumes no responsibility for engines, electrical equipment, or any other equipment and accessories not manufactured by Viking - Cives Midwest, Inc.

ORDERING PARTS

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

- 1. Place orders direct with Viking Cives Midwest, Inc. / 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. *Note:* An alpha designation in the Item ID column indicates a sub-component for that parent item. When placing parts orders reference the parent item to receive a complete assembly. Individual items can be ordered separately if required by ordering the alpha designated item number.
- 5. Print or type order clearly. Note: A purchase order is required for the warranty parts.
- 6. Give specific shipping instructions.

VIKING - CIVES MIDWEST, INC. – 22956 Hwy 61 Morley, MO 63767 (573) 262-3545 Phone; (573) 262-3369 Fax



WARRANTY REQUEST PROCEDURE

All repairs considered for warranty that are performed outside of Viking - Cives Midwest, Inc.; require prior written authorization from Viking - Cives Midwest, Inc. 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 Viking - Cives Midwest, Inc. with all required 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 Midwest, Inc. customer service to obtain a Return Goods Authorization (RGA) number. <u>Any product arriving at Viking Cives Midwest, Inc. without a RGA number will be rejected and returned to the sender at his or her own expense.</u>
- (2) Goods are to be shipped prepaid to Viking Cives Midwest, Inc. 22956 Highway 61 Morley, MO 63767. **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) A Purchase order must be received for the replacement parts.
 - b) An invoice will be generated for the value of the replacement item(s).
 - c) The defective part(s) must be returned (prepaid) to Viking Cives Midwest, Inc.
 - Upon receiving the defective part(s) Viking Cives Midwest, Inc. 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 Midwest, Inc. 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 Midwest, Inc. facility that may be considered for warranty the following steps must occur. Notification of Viking - Cives Midwest, Inc. customer service must take place prior to the start of any repairs.

- (1) Contact Viking Cives Midwest, Inc. 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 Midwest, Inc., attention Customer Service Department.
- (3) Once the WCF report has been reviewed warranty authorization will be granted or denied. **NOTE: Viking Cives Midwest, Inc. warranty labor rates will apply unless specifically determined otherwise.** Any part(s) involved in a WCF request must follow the Parts Warranty Consideration procedures.

For Customer Service and/or Parts requests please contact:

Service Department – DeWayne Stroder (573) 262-3545; (573) 262-3369 fax

