VIKING CIVES
MIDWEST

22956 Highway 61 Morley, MO 63767 Phone: (573) 262-3545 Fax: (573) 262-3369

Owners Manual

AHW 025 MID-MOUNT HYDRAULIC WING

22956 Highway 61 Morley, MO 63767 Phone: (573) 262-3545 Fax: (573) 262-3369

*** 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.** 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.

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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. 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.
(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.
    d) 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

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PERIODIC MATINTENANCE INSPECTION
DAILY INSPECTION AND LUBRIACATION

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 indicated low oil level, add the appropriate amount of the specified hydraulic fluid. **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 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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GENERAL 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. See cab control layout. All levers are clearly marked as to the equipment/function they control.
3. To raise the plow or wing, pull back on the appropriate control level, to lower the plow or wing, 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 of wing 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 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.

It is not practical or possible to warn you about all the hazards associated with the operation and maintenance of this equipment. You use your 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, trouble shooting equipment operations and loading or unloading the sanders/spreaders with material observe and obey all safety decals on the equipment and warnings listed in the manual. Failure to do this could result in serious injury or death to you or others.

Remember at all times that as the operator you are 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.

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INSTALLATION SEQUENCE AND GUIDELINES

These mounting instructions are intended as a guide to aid you in the installation of your AHW-025 Mid-Mount Hydraulic Wing. All dimensions noted in the instructions are approximate and may vary due to make and model of chassis, tire size, type of suspension, spring deflection, customer preference and interference caused by immovable objects such as a transfer case. Viking-Cives assumes no responsibility for improper installation unless installed at an approved Viking-Cives location. The end-user and the installer prior to installation should discuss mounting location in order to achieve the best possible installation.

1. Layout chassis frame rails, following layout drawings supplied, identifying any chassis components such as air tanks or battery boxes, which may have to be moved.
2. Layout side mounting plates and support masts as indicated (for dimensions see table below).
    a. Drill and bolt side plates to chassis frame as necessary. When mounting side plates use existing frame holes when possible.

MID-MOUNT WING INSTALLATION
W/ STANDARD NON-TRIP MOLDBOARD AND NON-TRIP HINGE

	7 FT.	8 FT.	9 FT.
A	13”	13”	13”
B	45”	50”	55”
C	12 ½”	12 ½”	12 ½”
D	26 3/16”	26 3/16”	26 3/16”
E	29 ¾”	29 ¾”	29 ¾”
F	45 1/8”	50 1/8”	55 1/8”

MID-MOUNT WING INSTALLATION
W/ NON-TRIP MOLDBOARD AND TRIP HINGE

	7 FT.	8 FT.	9 FT.
A	13”	13”	13”
B	45”	50”	55”
C	12 ½”	12 ½”	12 ½”
D	26 3/16”	26 3/16”	26 3/16”
E	24 ¼”	24 ¼”	24 ¼”
F	45 1/8”	50 1/8”	55 1/8”

MID-MOUNT WING INSTALLATION
W/ TRIP EDGE MOLDBOARD AND NON-TRIP HINGE

	7 FT.	8 FT.	9 FT.
A	16”	16”	16”
B	45”	50”	55”
C	12 ½”	12 ½”	12 ½”
D	26 3/16”	26 3/16”	26 3/16”
E	29 ¾”	29 ¾”	29 ¾”
F	45 1/8”	50 1/8”	55 1/8”

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3. Install front mast and rear support tube.
    a. Slide front mast assembly and rear support tube into side plate cutouts.
    b. Locate front mast 24 ¼" *(measurement E)* from face of front right side mounting plate to outer edge of vertical support channel
    c. Locate rear support tube 26" *(measurement D)* from face rear right side mounting plate to outside edge of tube end plate.
    d. Install eight 4" x 3" x ½" x 6" angles to secure mast assembly and support tube in place. Bolt right side angles to side mounting plates with 5/8" x 2" bolts, nuts, and lock washers and weld to the top and bottom of the tube. Weld the left side angles to the side mounting plates and bolt through the tubes with 5/8" x 6" bolts, nuts, and lock washers. By following *this installation sequence, the front mast assembly and rear support tube will remain removable and easily re-installed.*

4. Layout and install pipe brace between front mast and rear support tube.
    a. Weld mounting angles to right hand inside of front mast and rear support tubes (locate as shown).
    b. Attach cast-mounting balls to mounting angles with fasteners. Measure and cut pipe brace to suit, weld pipe to cast-mounting balls.

5. Install moldboard assembly onto front wing post mounting block using 1 ¼" x 6 ½" bolt supplied.
6. Next layout and install rear push arm.
    a. Attach push arm to the rear support tube on right hand side.
    b. Next install the rear push arm-mounting bracket to the moldboard. Layout the mounting bracket onto the moldboard so that you obtain a 90-degree angle with the push arm and the rear cross beam. Location may vary based on moldboard length and distance between front mast and rear support tube.
    c. Attach push arm to the moldboard
7. Hydraulics Installation—Various hydraulic arrangements / options are available and care must be taken to use the correct drawings for your specific application. When running control cables and/or hydraulic hoses, care must be taken not to run these items too close to moving parts and/or hot engines. Do not kink or severely bend cable or hoses, at any point where items cross any surfaces where abrasion could occur, protect cable or hose with armor. Whenever possible, secure the cables and/or hoses with ties, to the chassis frame.
8. 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.
    a. Install chassis mounted hydraulic components (i.e. hydraulic pump/PTO, main valve bank, etc.)
    b. Install heel lift cylinder from front post block to cylinder link in center of moldboard using pins provided.
    c. Install hydraulic plumbing for front and heel lift cylinders
9. Final installation and inspection
    a. Operate wing and build wing stop on rear tube so wing will not hit body in up position.
    b. Install safety chain around push arm for securing wing in raised travel position
    c. Check all components for loose and/or missing fasteners, if required tighten and/or replace.
    d. Visually inspect all hydraulic connections and hoses for leaks
    e. Visually inspect all caution and warning decals, replace decals if missing. All decals should be complete and legible.

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AHW-025 MID-MOUNT WING KIT COMPLETE

For ordering complete kits, please reference table below.
These kits come complete with all standard items and necessary installation hardware.

ITEM ID	ITEM NO	DESCRIPTION	QTY
	01401158	MID MOUNT WING KIT AHW-025 6FT 12IN	1
	01401068	MID MOUNT WING KIT AHW-025 7FT 12IN	1
	01401168	MID MOUNT WING KIT AHW-025 8FT 12IN	1
	01401165	MID MOUNT WING KIT AHW-025 9FT 12IN	2

AHW-025 MID-MOUNT WING KIT INSTALLATION

ITEM ID	ITEM NO	DESCRIPTION	QTY
1	00401494	ANGLE 3 X 3 X 3/8 – 11	4
2	00401495	ANGLE 4 X 3 X ½ - 6	8
3	00402187	ANGLE 4 X 4 X 3/8 – 4	2
4	01001167	HINGE BLOCK WELDT AHW-025	1
5	01001170	FRAME MOUNTING PLATE 12” X 28”	2
6	01001176	WING POST ASSY AHW-025	1
7	01001177	FRAME MTG PALTE 18” X 28”	2
8	01001178	REAR CROSS TUBE WELDT	1
9	01201065	PUSH ARM ASSY AHW-025	1
10	A/R	MOLDBOARD ASSY AHW-025	1
11	01900155	PIPE BRACE KIT 2 7/8 BALL – 48.000 IN LONG	1
12	0540246	CYLINDER HYD DA 3X10	1
13	HW14C-10	LOCKWASHER SPLIT 5/8 ZINC	6
14	HW30A-10	NUT HEX 5/8 UNC ZINC	6
15	HW36D-16	NUT HEX ELASTIC 1 UNC ZINC	2
16	HW40A-1016	BOLT HEX 5/8 X 2 UNC ZINC	4
17	HW40A-1048	BOLT HEX 5/8 X 6 UNC ZINC	2
18	HW40A-1628	BOLT HEX 1 X 3 ½ UNC ZINC	2

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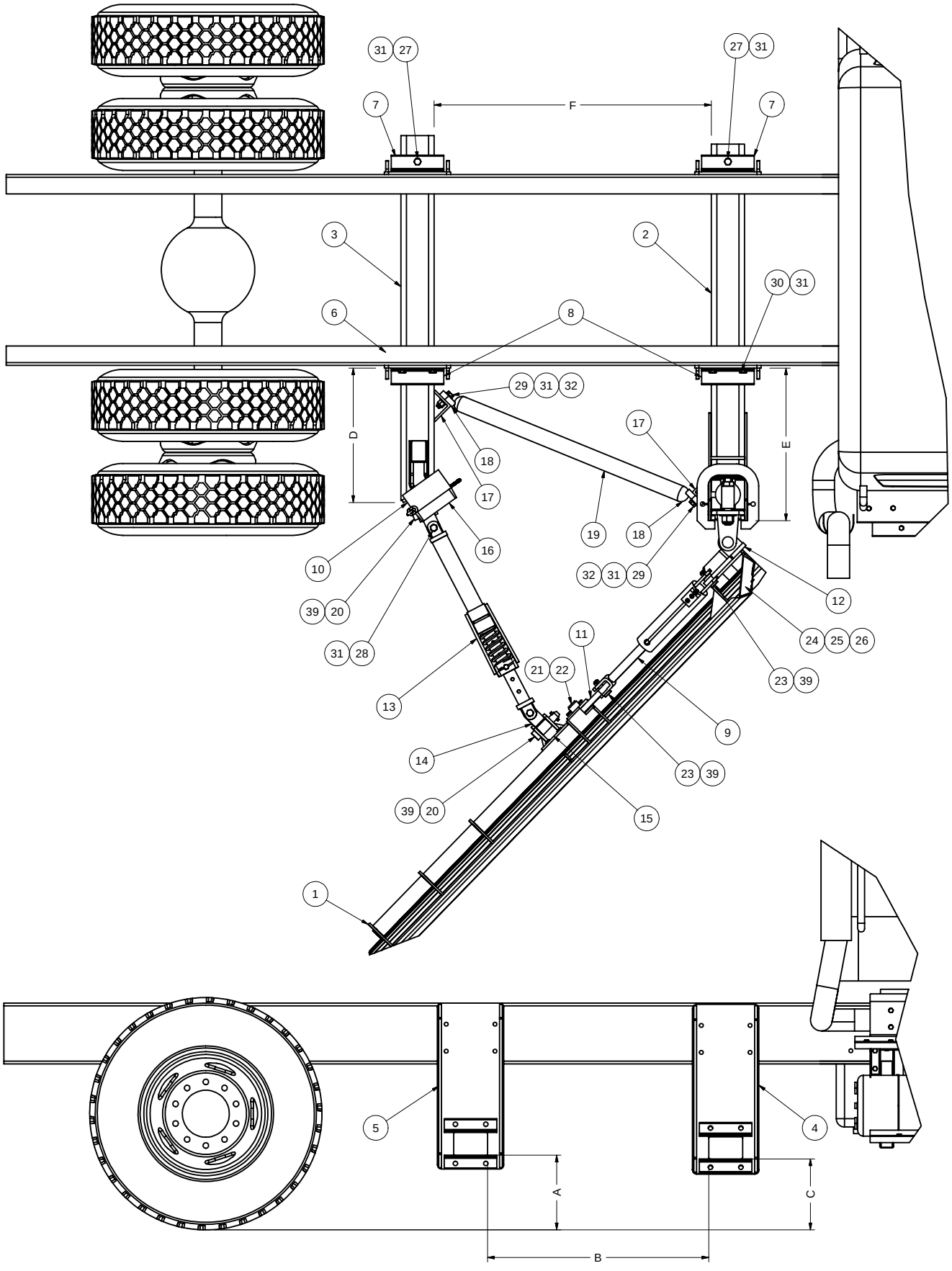

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AHW-025 MID-MOUNT SET UP ASSEMBLY

ITEM ID	ITEM NO	ALT ITEM	DESCRIPTION	QTY
1	21401088		7’ MID-MOUNT MOLDBOARD ASSEMBLY RTH	1
	21401089		7’ MID-MOUNT MOLDBOARD ASSEMBLY LTH	1
	21401051		7’ MID-MOUNT TRIP EDGE MOLDBOARD ASSEMBLY RTH	1
	21401093		7’ MID-MOUNT TRIP EDGE MOLDBOARD ASSEMBLY LTH	1
	21401082		8’ MID-MOUNT MOLDBOARD ASSEMBLY RTH	1
	21401087		8’ MID-MOUNT MOLDBOARD ASSEMBLY LTH	1
	21401084		8’ MID-MOUNT TRIP EDGE MOLDBOARD ASSEMBLY RTH	1
	21401092		8’ MID-MOUNT TRIP EDGE MOLDBOARD ASSEMBLY LTH	1
	21401086		9’ MID-MOUNT MOLDBOARD ASSEMBLY RTH	1
	21401090		9’ MID-MOUNT MOLDBOARD ASSEMBLY LTH	1
	21401085		9’ MID-MOUNT TRIP EDGE MOLDBOARD ASSEMBLY RTH	1
	21401091		9’ MID-MOUNT TRIP EDGE MOLDBOARD ASSEMBLY LTH	1
2	21001004		WING POST ASSY AHW-025	1
3	201001178		REAR CROSS TUBE WELDT	1
4	21403066		MID-MOUNT FRONT CHEEK PLATE WELDT	2
5	21403065		MID-MOUNT REAR CHEEK PLATE WELDT	2
6	21412011		VIKING CHEEK PLATE BACKSIDE GUSSET	8
7	21406024		VIKING CROSS TUBE MTG ANGLE 1 HOLE	4
8	21406025		VIKING CROSS TUBE MTG ANGLE 2 HOLE	4
9	20540248CB	80143B	CYLINDER HYD DA 3 X 10	1
10	21403084		AHW025 REAR POST CARRING/STOP WELDT	1
11	200401422		LINK 1.063D 7.188 1.313D	1
12	201001167		HINGE BLOCK WELDT AHW 025	1
13	201201065		PUSH ARM AHW 025	1
14	20017167-4		PIVOT BLOCK 3.500 X 0.813 DIA	2
15	21403067		PUSH ARM MTG BRKT WELDT	1
16	280572C		RUBBER BUMPER MC21685T11	1
17	00402187		ANGLE 4 X 4 X 3/8 – 4	2
18	280370A	80370A	COMPRESSION END BRACE 2 7/8 BALL	2
19	01900045	0T129	TUBE RD 2.875N 2.469N 60.000S	1
20	20P010		PIN 1 ¼ X 4 3/8 UH	2
21	280507	80508A	COTTER PIN ¼ X 3 ZINC	2
22	20900125		PIN 1.250 DIA X 3.406 BODY	1
23	20P148A		PIN 1 X 3	2
24	21415002	81023C	BOLT HEX 1 ¼ X 6 UNC ZINC DRILLED	1
25	HW30C-20	81006	NUT HEX SLOTTED 1 ¼ UNC ZINC	1
26	HW16A-20	81015A	FLATWASHER SAE 1 ¼ ZINC	1
27	HW40A-1248	81068F	BOLT HEX ¾ X 6 UNC ZINC	2
28	HW40A-1230	81068E	BOLT HEX ¾ X 3 ¾ UNC ZINC	2
29	HW40A-1224		BOLT HEX ¾ X 3 UNC ZINC	2
30	3SK3800		BOLT HEX ¾ X 2 ½ UNC ZINC	8
31	HW30E-12		NUT HEX TOPLOCK ¾ UNC ZINC	14
32	3SK3820	81062X	FLATWASHER SAE ¾ ZINC	4
33	HW40A-1020	81075E	BOLT HEX 5/8 X 2 ½ UNC ZINC	2
34	HW40A-1016	81073D	BOLT HEX 5/8 X 2 UNC ZINC	2
35	HW36D-10		NUT HEX TOPLOCK 5/8 UNC ZINC	4
36	HW40A-0616		BOLT HEX 3/8 X 2 UNC ZINC	2
37	HW30E-06	81086C	NUT HEX TOPLOCK 3/8 UNC ZINC	2
38	HW14A-06		FLATWASHER SAE 3/8 ZINC	4
39	HW13C-1238		ROLL PIN 3/8 X 2 ZINC	4

VIKING CIVES MIDWEST

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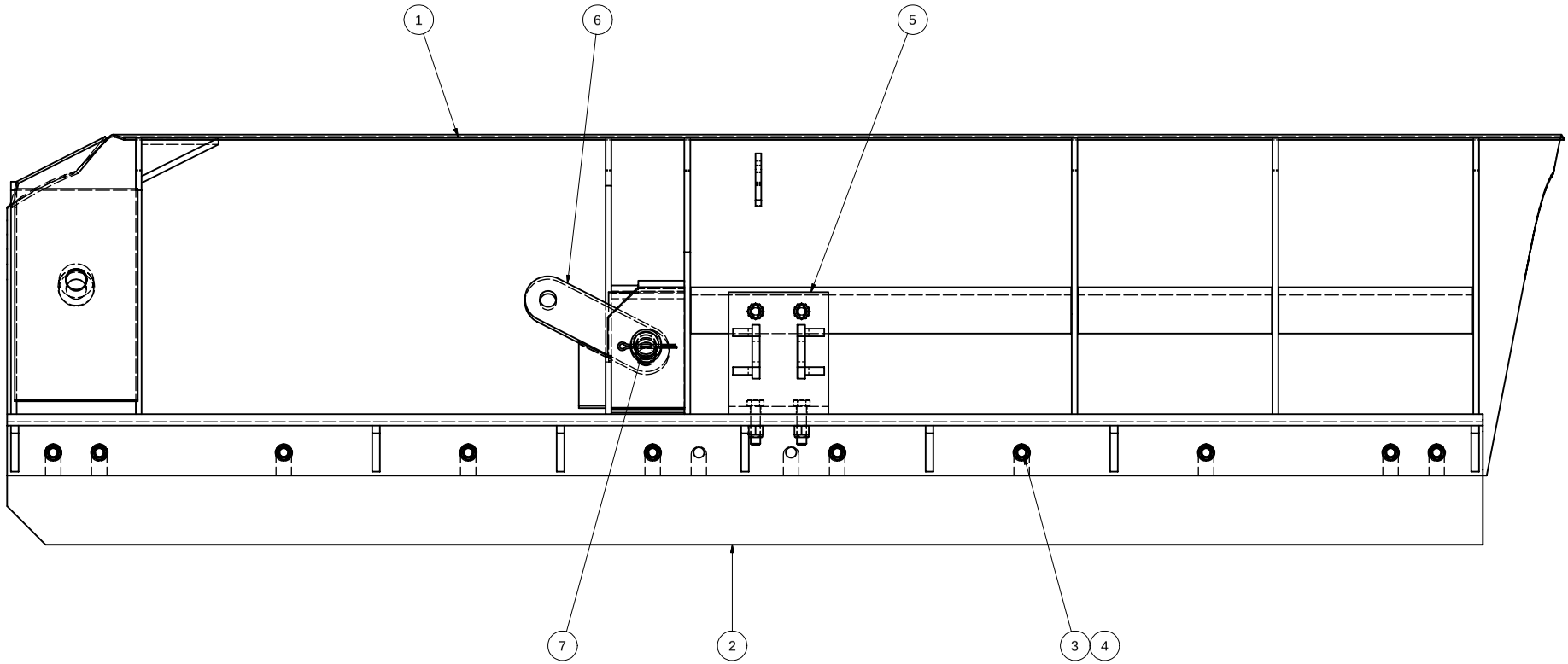
AHW025 MID-MOUNT 8' WING ASSEMBLY
PART #21401082



NOTE: ITEM #5, ITEM #6, AND ITEM #7 ARE NOT PART OF ASSEMBLY #21401082 IT IS SHOWN JUST AS A REPRESENTATION OF HOW IT SHOULD BE JUST BEFORE BEING MOUNTED TO THE TRUCK.

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AHW-025 MID-MOUNT 8' WING ASSEMBLY
PART # 2140182

ITEM ID	ITEM NO	ALT ITEM	DESCRIPTION	QTY
1	201401131		8 FT MID-MOUNT WING RTH WELDT	1
2	280032		BLADE 5/8 X 8 X 96 (2" TOP PUNCH)	1
3	HW40B-1020	81074C	BOLT PLOW 5/8 X 2 ½ UNC ZINC	10
4	HW36D-10		NUT HEX TOPLOCK 5/8 UNC ZINC	10
5	21403067		PUSH ARM MTG BRKT WELDT (MODOT)	1
6	200401422		LINK 1.063D 7.188 1.313D	1
7	20900125		PIN 1.250 DIA X 3.406 BODY	1

Note: Item # 5, 6, and 7 are not part of assembly #21401082.
It is shown just as a representation of how it should be just before being mounted to the truck

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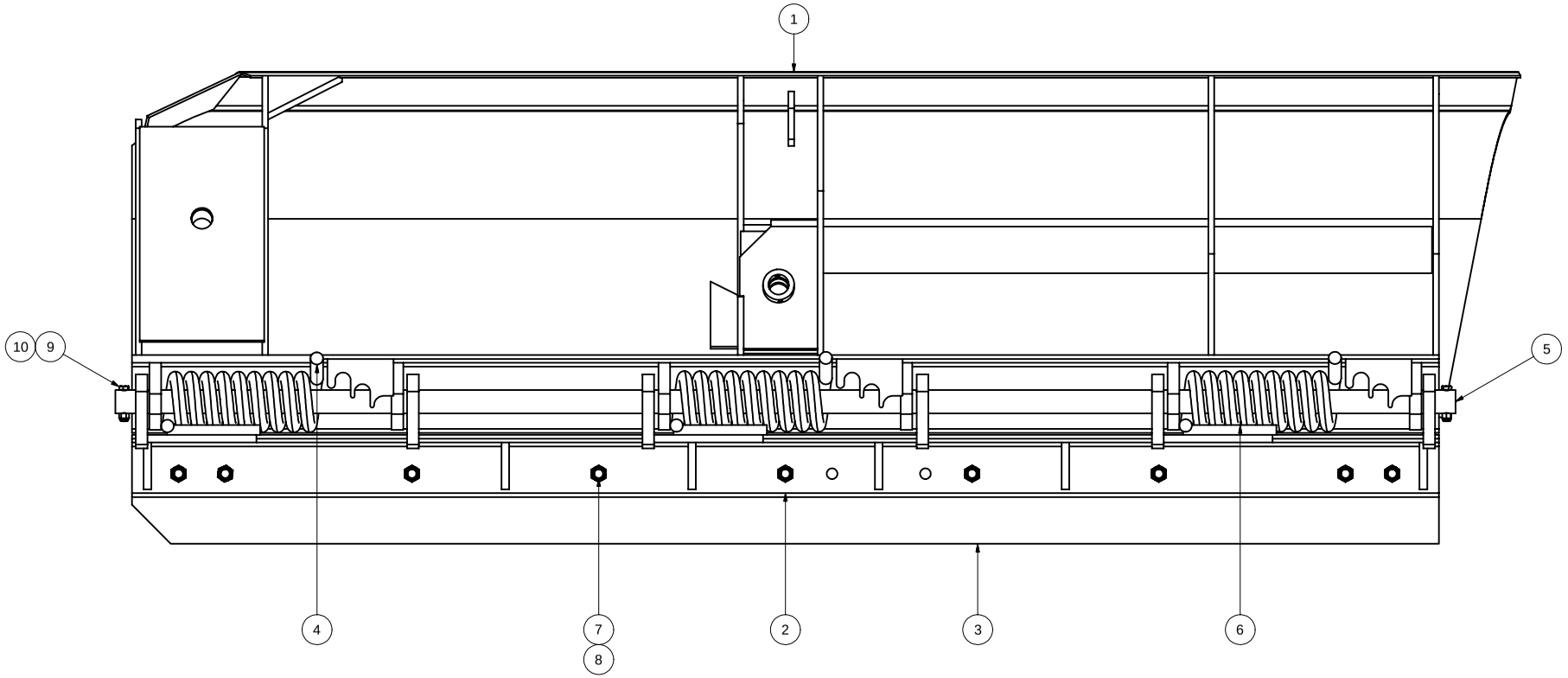
AHW025 MID-MOUNT 7' TRIP EDGE WING ASSEMBLY
PART #21401051



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AHW-025 MID-MOUNT 7’ TRIP EDGE WING ASSEMBLY
PART # 21401051

ITEM ID	ITEM NO	ALT ITEM	DESCRIPTION	QTY
1	21403052		7 FT MID MOUNT TRIP EDGE WELDT	1
2	21403017		7 FT TRIP EDGE BASE ANGLE	1
3	25000013		BLADE 5/8 X 6 X 84 1 ½” TOP MARGIN	1
4	280416		MW SMALL TRIP EDGE SPRING TORSION	3
5	21429012		SPRING RETAINER TUBE 14’ J-PLOW	1
6	22110000		FH 5/8 X 1 X 6	3
7	HW40B-1020	81074C	BOLT PLOW 5/8 X 2 ½ UNC ZINC	9
8	HW36D-10		NUT HEX TOPLOCK 5/8 UNC ZINC	9
9	HW40A-0616		BOLT HEX 3/8 X 2 UNC ZINC	2
10	HW30E-06	81086C	NUT HEX TOPLOCK 3/8 UNC ZINC	2
11	280556		COTTER PIN ¼ X 2 ZINC	1

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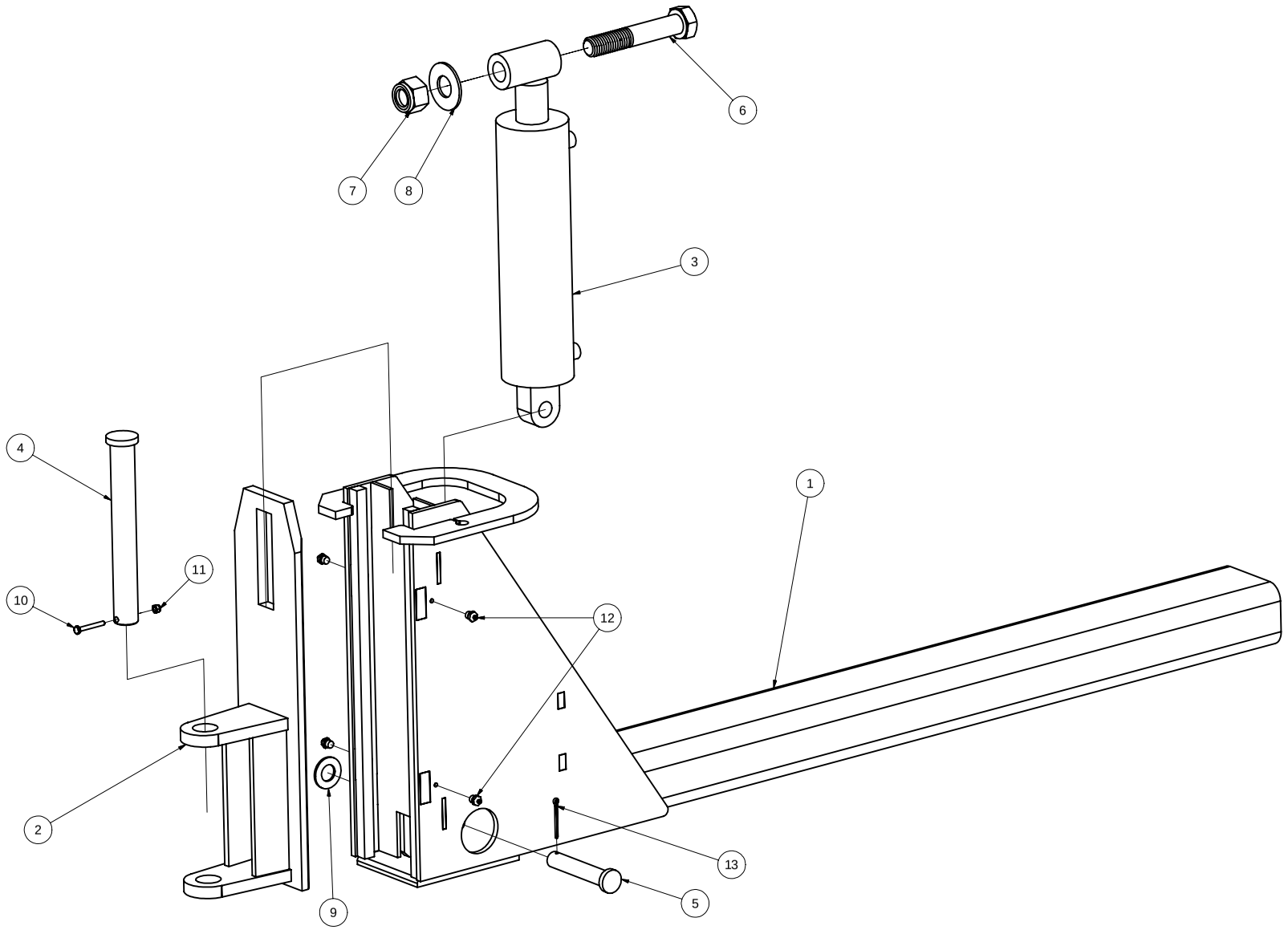
MID-MOUNT AHW025 FRONT POST ASSEMBLY
PART #21001004



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AHW-025 MID-MOUNT FRONT POST ASSEMBLY
PART # 21001004

ITEM ID	ITEM NO	ALT ITEM	DESCRIPTION	QTY
1	21003021		WINT POST WELDT AHW-025	1
2	201001168		SLIDE WELDT AHW-025	1
3	20540247	80143B	CYLINDER HYD DA 4 X 12	1
4	20900128		PIN 1.500 DIA X 11.438 BODY	1
5	3SK3421		PIN 1 X 5 ½	1
6	281023G		BOLT HEX 1 ¼ X 7 UNC ZINC	1
7	HW30E-20	80999D	NUT HEX TOPLOCK 1 ¼ UNC ZINC	1
8	HW14B-20	81015	FLATWASHER USS 1 ¼ ZINC	1
9	HW14A-16	81013A	FLATWASHER SAE 1 ZINC	1
10	HW40A-0416		BOLT HEX ¼ X 2 UNC ZINC	1
11	HW36D-04		NUT HEX TOPLOCK ¼ UNC ZINC	1
12	260106		GREASE FITTING ¼ NPT STR	4
13	3SK3450	80518	COTTER PIN 3/16 X 2 ZINC	1

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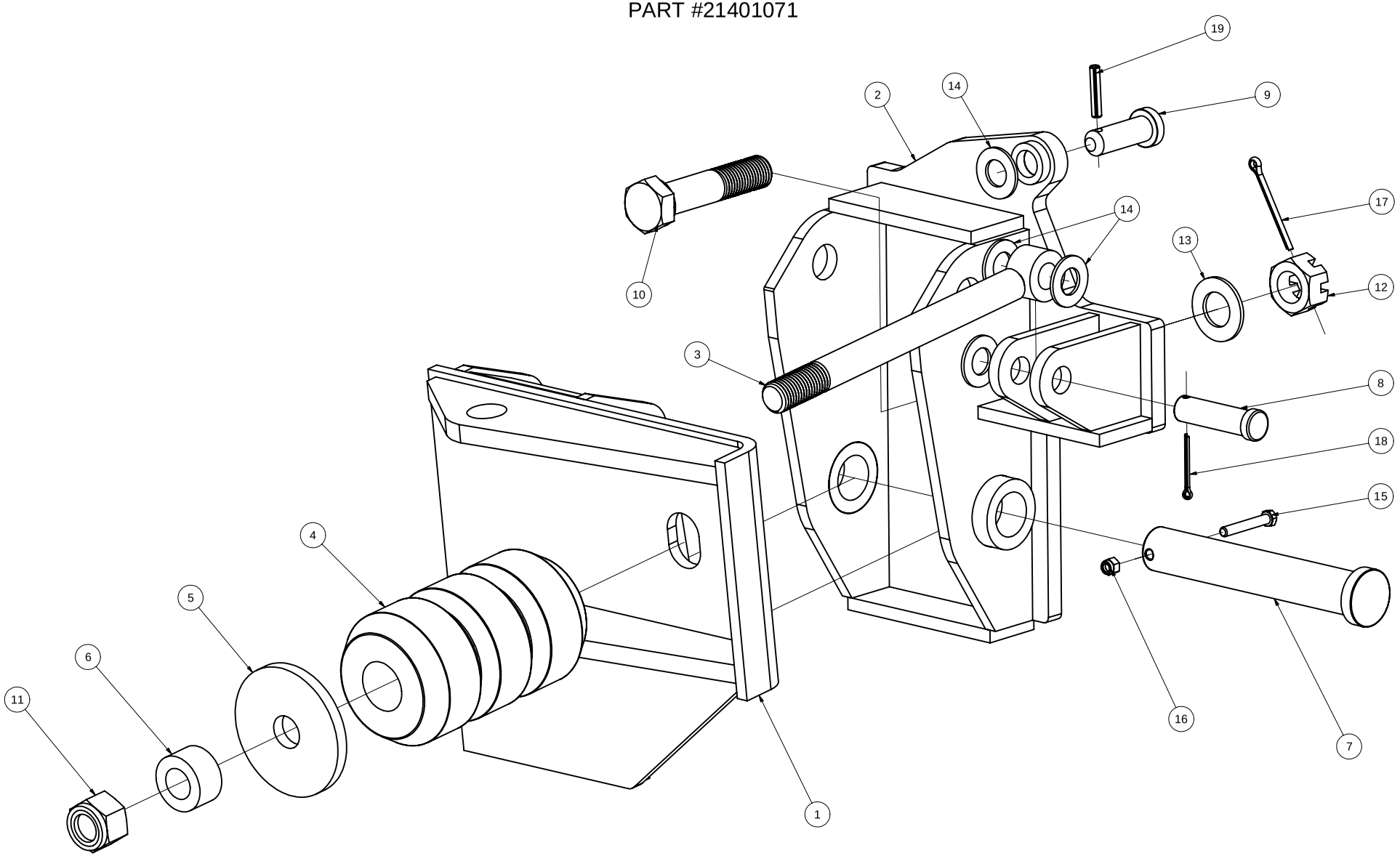
AHW025 MID-MOUNT FULL TRIP HINGE ASSEMBLY RTH
PART #21401071



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AHW-025 MID-MOUNT FULL TRIP HINGE RTH
PART # 21401071

ITEM ID	ITEM NO	ALT ITEM	DESCRIPTION	QTY
1	21403059		POST HALF TRIP HINGE WELDT RTH	1
2	21403061		PLOW HALF TRIP HINGE WELT RTH VCM	1
3	21403058		CONNECTING ROD TRIP BUSHING	1
4	21415000		RUBBER TIMBERIN TRIP HINGE	1
5	21405080		RETAINING PLATE TIMBERIN BUSHING	1
6	21429009		CONN. ROD TO TIMBERIN SPACE BUSHING	1
7	20908010		1 ¾ PIVOT PIN TRIP HINGE	1
8	20908008		CONNECTING ROD TO TIMBERIN PIN TH	1
9	20P148A		PIN 1 X 3	1
10	21415002	81023C	BOLT HEX 1 ¼ X 6 UNC ZINC DRILLED	1
11	HW30E-20	80999D	NUT HEX TOPLOCK 1 ¼ UNC ZINC	1
12	HW30C-20	81006	NUT HEX SLOTTED 1 ¼ UNC ZINC	1
13	HW16A-20	81015A	FLATWASHER SAE 1 ¼ ZINC	1
14	HW14A-16	81013A	FLATWASHER SAE 1 ZINC	4
15	3SK3589		BOLT HEX 3/8 X 2 ½ UNC ZINC	1
16	HW30E-06	81086C	NUT HEX TOPLOCK 3/8 UNC ZINC	1
17	280507	80508A	COTTER PIN ¼ X 3 ZINC	1
18	3SK3450	80518	COTTER PIN 3/16 X 2 ZINC	1
19	HW13C-1238		ROLL PIN 3/8 X 2 ZINC	1

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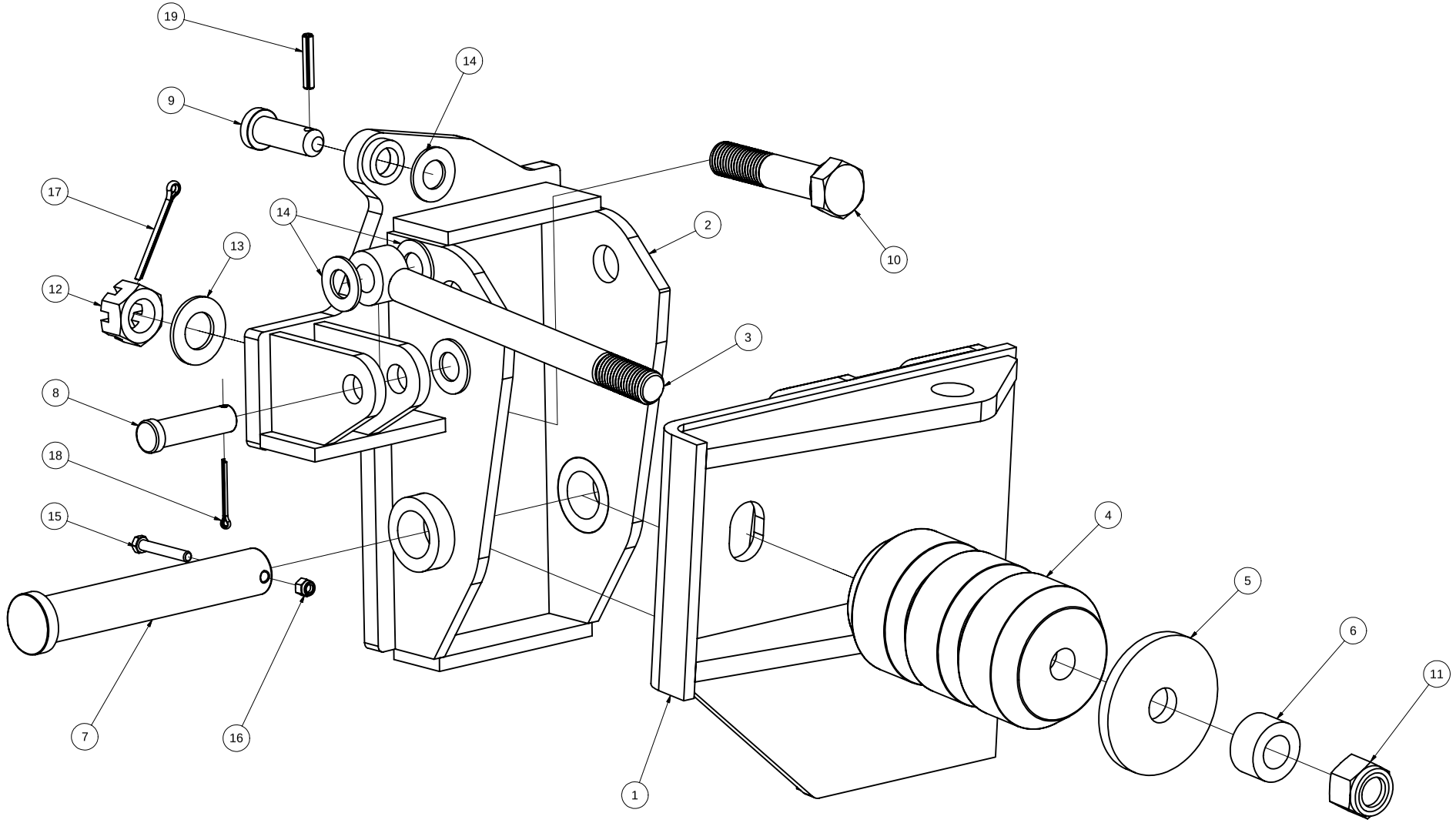
AHW025 MID-MOUNT FULL TRIP HINGE ASSEMBLY LTH
PART #21401072



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AHW-025 MID-MOUNT FULL TRIP HINGE LTH
PART # 21401072

ITEM ID	ITEM NO	ALT ITEM	DESCRIPTION	QTY
1	21403056		POST HALF TRIP HINGE WELDT LTH	1
2	21403062		PLOW HALF TRIP HINGE WELT LTH VCM	1
3	21403058		CONNECTING ROD TRIP BUSHING	1
4	21415000		RUBBER TIMBERIN TRIP HINGE	1
5	21405080		RETAINING PLATE TIMBERIN BUSHING	1
6	21429009		CONN. ROD TO TIMBERIN SPACE BUSHING	1
7	20908010		1 ¾ PIVOT PIN TRIP HINGE	1
8	20908008		CONNECTING ROD TO TIMBERIN PIN TH	1
9	20P148A		PIN 1 X 3	1
10	21415002	81023C	BOLT HEX 1 ¼ X 6 UNC ZINC DRILLED	1
11	HW30E-20	80999D	NUT HEX TOPLOCK 1 ¼ UNC ZINC	1
12	HW30C-20	81006	NUT HEX SLOTTED 1 ¼ UNC ZINC	1
13	HW16A-20	81015A	FLATWASHER SAE 1 ¼ ZINC	1
14	HW14A-16	81013A	FLATWASHER SAE 1 ZINC	4
15	3SK3589		BOLT HEX 3/8 X 2 ½ UNC ZINC	1
16	HW30E-06	81086C	NUT HEX TOPLOCK 3/8 UNC ZINC	1
17	280507	80508A	COTTER PIN ¼ X 3 ZINC	1
18	3SK3450	80518	COTTER PIN 3/16 X 2 ZINC	1
19	HW13C-1238		ROLL PIN 3/8 X 2 ZINC	1

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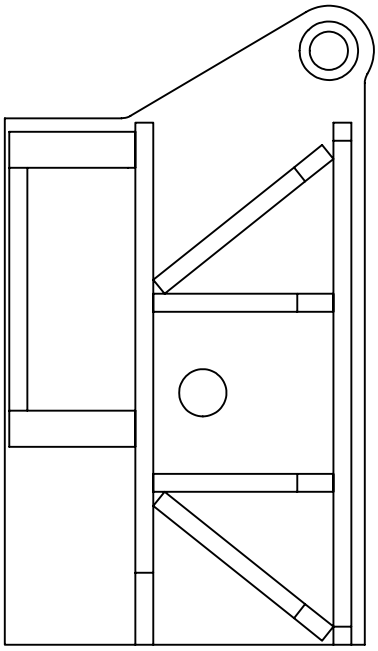
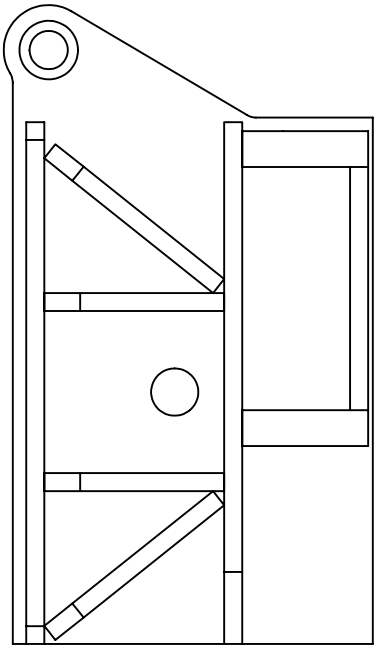
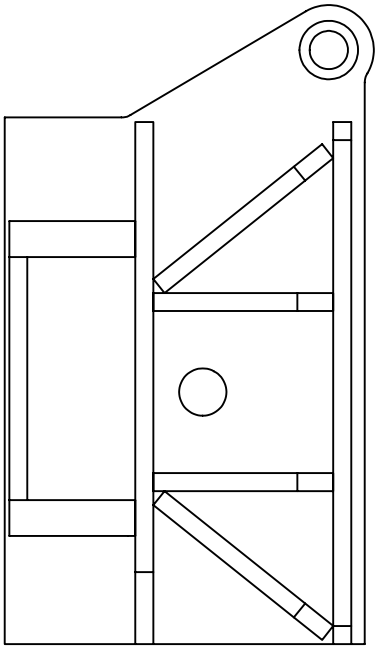
AHW025 MID-MOUNT FRONT HINGES NON-TRIP



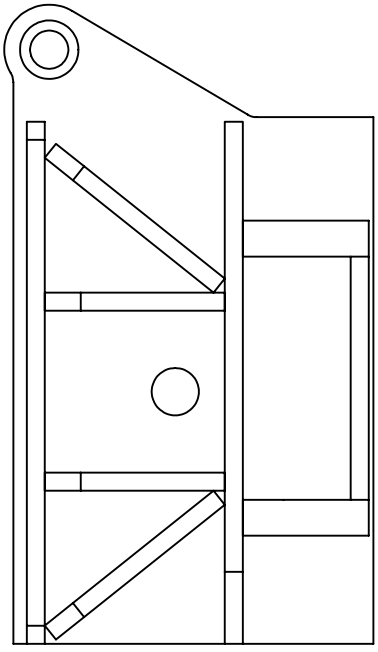
RIGHT HAND NON-TRIP EDGE MOLDBOARD HINGE WELD'T
PART #01001167



LEFT HAND NON-TRIP EDGE MOLDBOARD HINGE WELD'T
PART #01001286



RIGHT HAND TRIP EDGE MOLDBOARD HINGE WELD'T
PART #01001166



LEFT HAND TRIP EDGE MOLDBOARD HINGE WELD'T
PART #21003024

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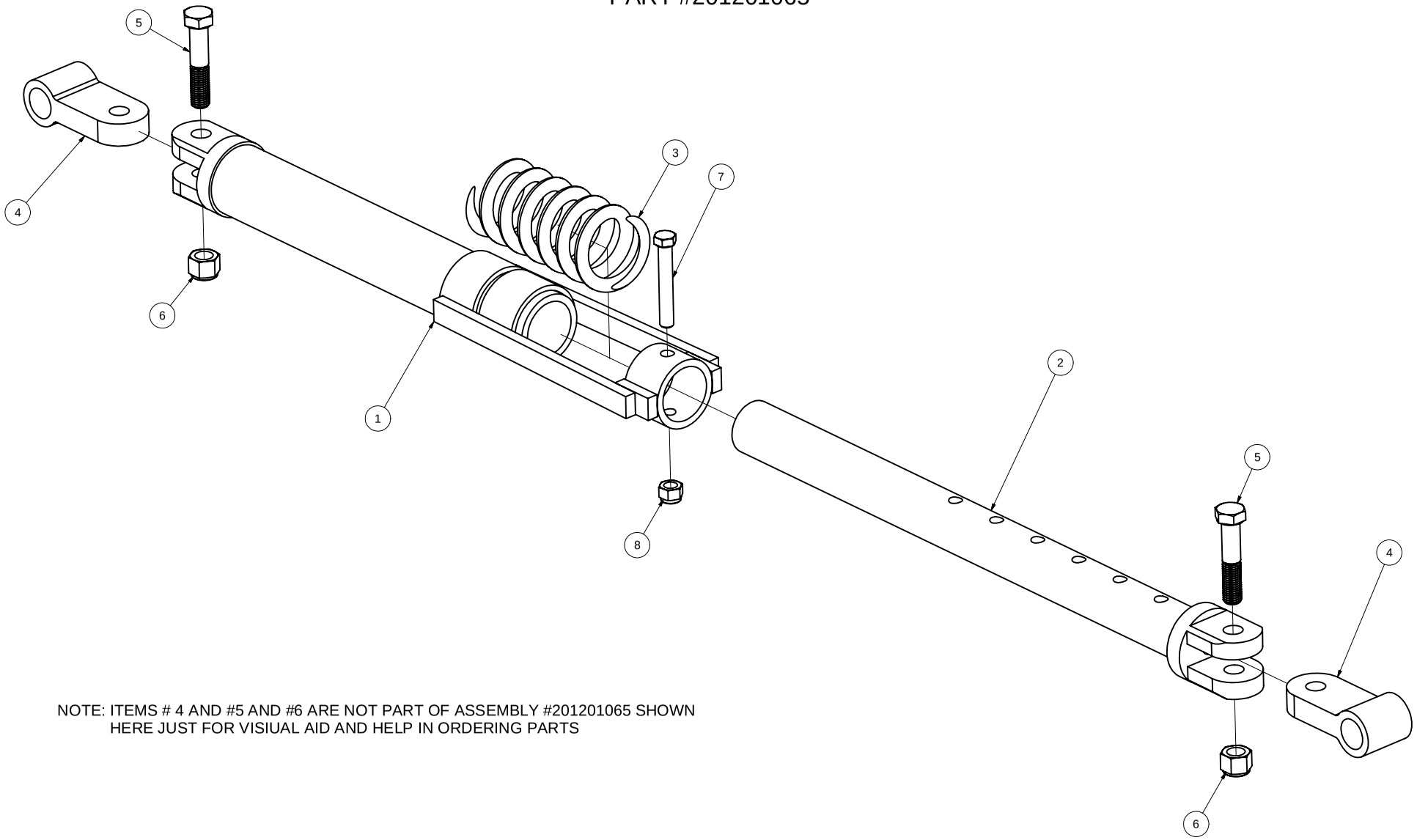
AHW025 MID-MOUNT STANDOFF ARM ASSEMBLY WITH PIVOT BLOCKS
PART #201201065



NOTE: ITEMS # 4 AND #5 AND #6 ARE NOT PART OF ASSEMBLY #201201065 SHOWN HERE JUST FOR VISIUAL AID AND HELP IN ORDERING PARTS

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AHW-025 MID-MOUNT WING STANDOFF ARM ASSY W/ PIVOT BLOCKS PART # 201201065 (40")

ITEM ID	ITEM NO	ALT ITEM	DESCRIPTION	QTY
1	201201064		PUSH ARM WELDT AHW-025 OUTER (40 INCH)	1
2	201201060		PUSH ARM WELDT AHW-025 INNER	1
3	0580024		AHW-025 PUSH ARM COMPRESSION SPRING	1
4	20017167-4		PIVOT BLOCK 3.500 X 0.813 DIA	2
5	HW40A-1230	81068E	BOLT HEX ¾ X 3 ¾ UNC ZINC	2
6	HW30E-12		NUT HEX TOPLOCK ¾ UNC ZINC	2
7	213268		BOLT HEX 9/16 X 3 ¾ UNC ZINC GRADE 5	1
8	21137270		NUT HEX TOPLOCK 9/16 UNC ZINC	1

Note: Items # 4, 5, and 6 are not part of assembly 201201065.
Shown here just for visual aid and help in ordering parts.

AHW-025 MID-MOUNT WING STANDOFF ARM ASSY W/ PIVOT BLOCKS PART # 201201095 (66")

ITEM ID	ITEM NO	ALT ITEM	DESCRIPTION	QTY
1	1201095		PUSH ARM WELDT AHW-025 OUTER (66 INCH)	1
2	201201060		PUSH ARM WELDT AHW-025 INNER	1
3	0580024		AHW-025 PUSH ARM COMPRESSION SPRING	1
4	20017167-4		PIVOT BLOCK 3.500 X 0.813 DIA	2
5	HW40A-1230	81068E	BOLT HEX ¾ X 3 ¾ UNC ZINC	2
6	HW30E-12		NUT HEX TOPLOCK ¾ UNC ZINC	2
7	213268		BOLT HEX 9/16 X 3 ¾ UNC ZINC GRADE 5	1
8	21137270		NUT HEX TOPLOCK 9/16 UNC ZINC	1

Note: Items # 4, 5, and 6 are not part of assembly 201201095.
Shown here just for visual aid and help in ordering parts.

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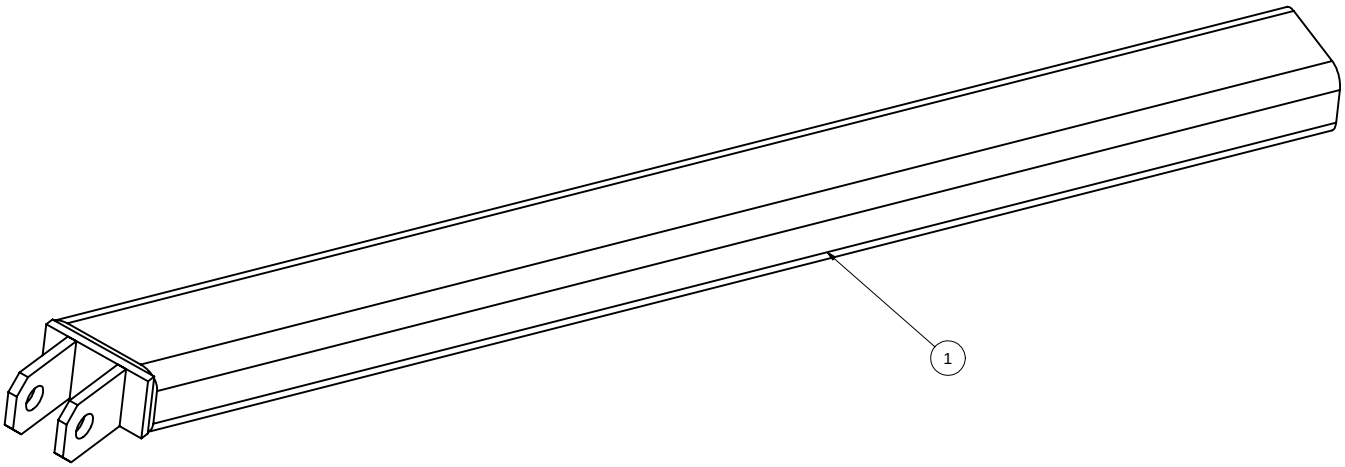
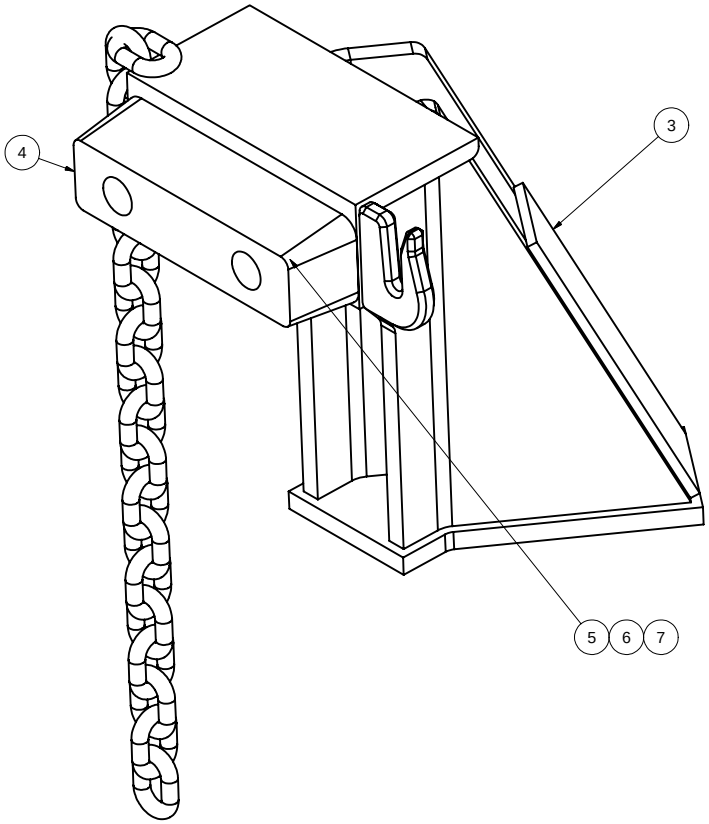
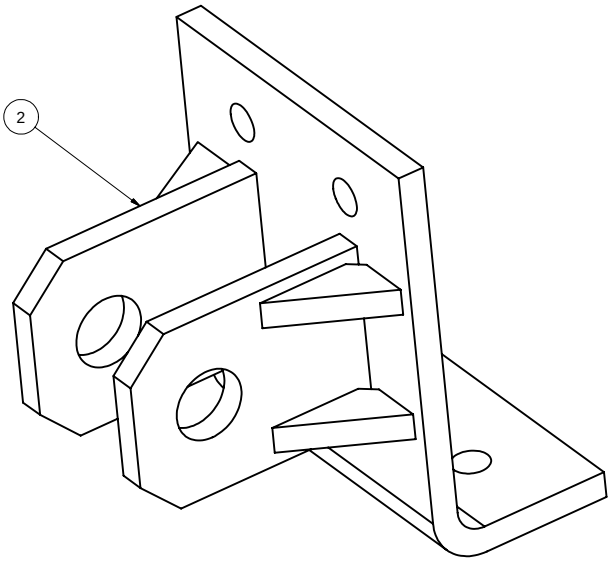
AHW025 REAR POST WELDMENT
PART #201001178



REAR POST CARRING/STOP ASSEMBLY
PART #21401083



PUSH ARM MOUNTING BRACKET WELDMENT
PART #21403067



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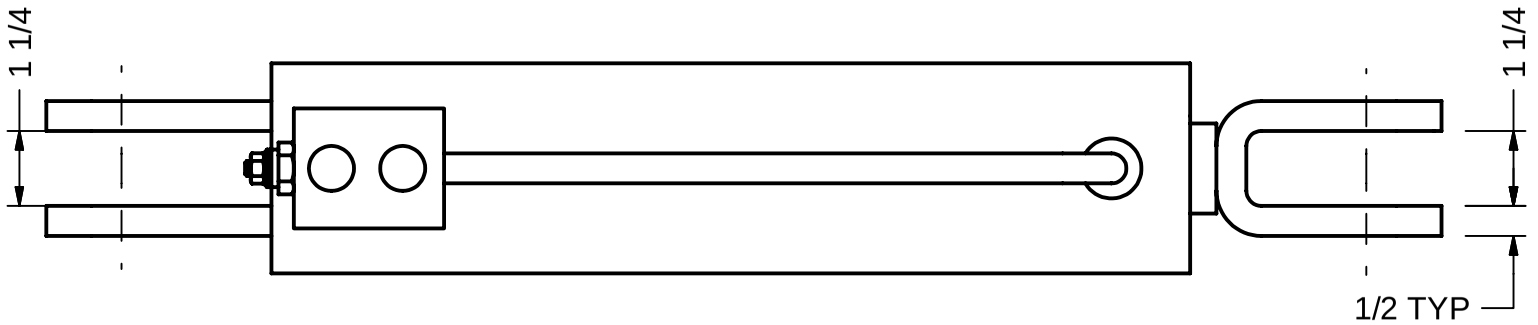
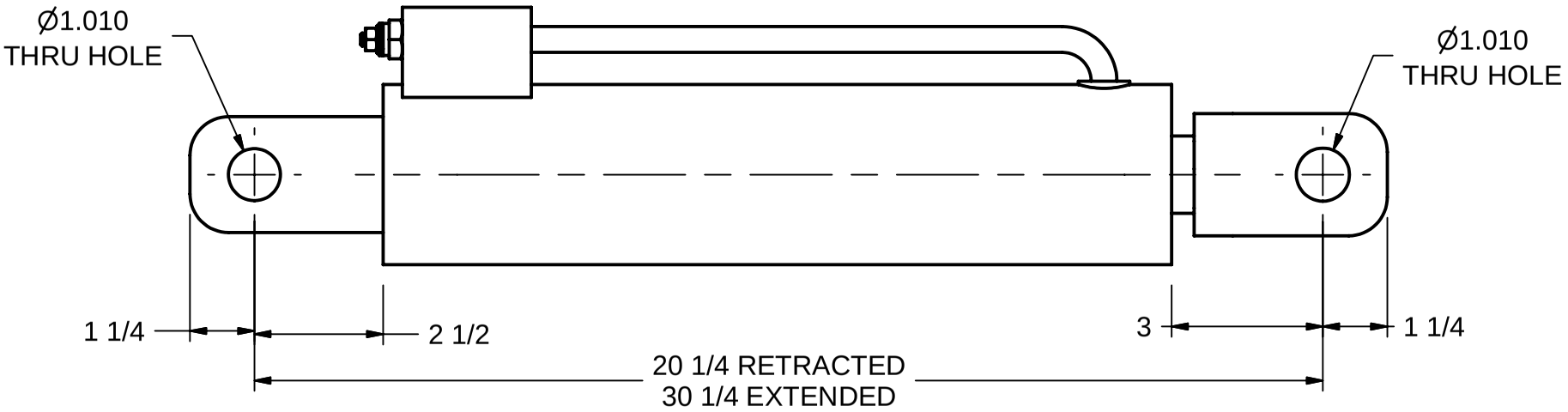
AHW-025 MID-MOUNT WING REAR POST WELDMENT
PART # 201001178

ITEM ID	ITEM NO	ALT ITEM	DESCRIPTION	QTY
1	201001178		REAR CROSS TUBE WELDT	1
2	21403067		PUSH ARM MOUNTING BRACKET WELDT	1
3	21403084		AHW025 REAR POST CARRING/STOP WELDT	1
4	280572C		RUBBER BUMPER MC21685T11	1
5	HW40A-0616		BOLT HEX 3/8 X 2 UNC ZINC	2
6	HW30E-06	81086C	NUT HEX TOPLOCK 3/8 UNC ZINC	2
7	HW16A-06		FLATWASHER SAE 3/8 ZINC	2





REV	ECN	DESCRIPTION	DRAWN	APPVD	DATE
1		FIRST RELEASE	KMK		04/12/10

MATERIAL: PURCHASED PART

DRAWN BY: Kory
DATE: 4/12/2010
CHECKED BY:
DATE:
DWG SIZE: ANSI A
SCALE: 5 : 16
ALT. ITEM:
EST. UNITS: EACH

DO NOT SCALE THIS DRAWING

THIRD-ANGLE PROJECTION

Viking-Cives Group

UNLESS OTHERWISE SPECIFIED
ALL BENDS ARE 90°
DIMENSIONS ARE IN INCHES
TOLERANCES ARE AS NOTED

FRACTIONAL	+/-	1/8
DECIMAL	+/-	.010
ANGLES	+/-	.5°

CYLINDER, SEAL KITS - PURCHASED
CYLINDER HYD DA 3 X 10 COUNTER BALANCE

DWG NO. 20540248CB

REV NO. 1