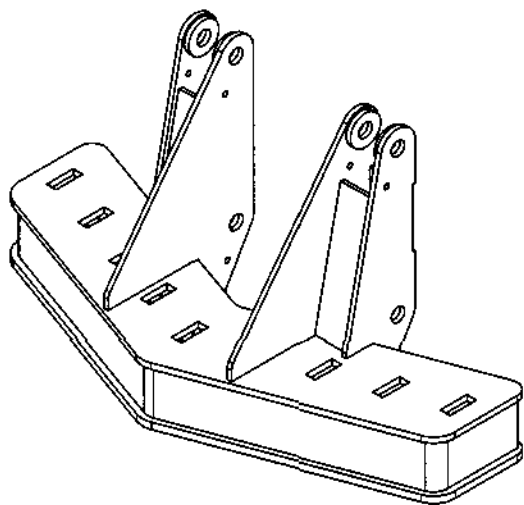
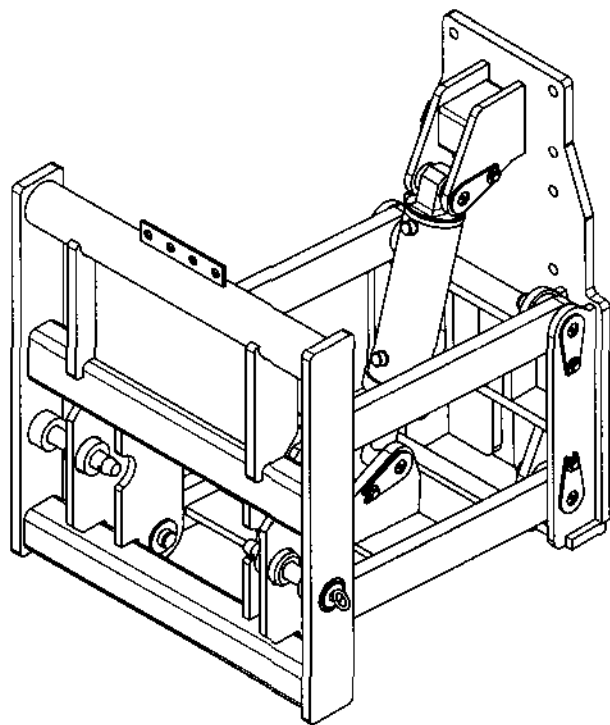


MOTOR GRADER LIFT GROUPS

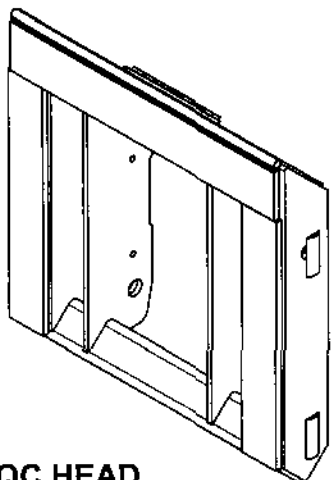
**HENKE "STD" LIFT GROUPS FOR
CATERPILLAR 135H THRU 163H GRADERS**



SCARIFIER HEAD



**LIFT GROUP SHOWN WITH
BALDERSON-STYLE HEAD**



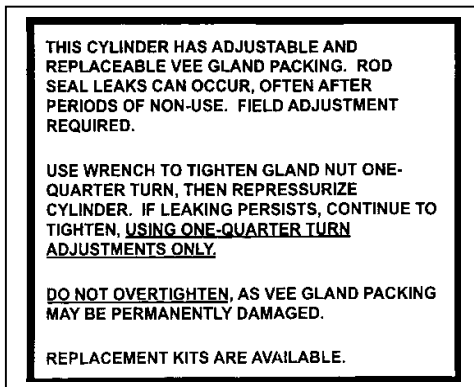
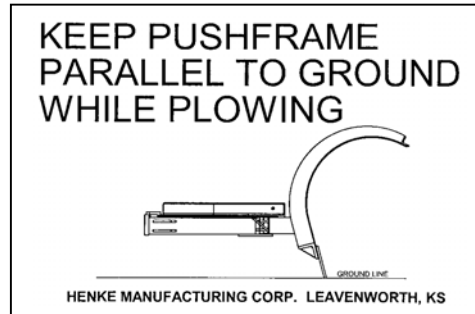
AQC HEAD

**Parts Book and Installation Manual
Original Issue, November 2000**

SAFETY

ONE OR MORE OF THESE SAFETY STICKERS MAY APPEAR ON YOUR HENKE PLOW. THEY ARE PLACED THERE TO INFORM YOU OF SAFETY ISSUES CONCERNING YOUR TYPE OF PLOW.

ALWAYS READ AND FOLLOW SAFETY WARNINGS. THEY ARE IMPORTANT FOR YOUR SAFETY AND THE PROPER OPERATION OF YOUR HENKE PLOW.



- 1. PERSONS WHO INSTALL, MOUNT, OPERATE OR SERVICE THIS EQUIPMENT MUST BE PROPERLY INSTRUCTED AND WARNED. DO NOT LET ANYONE OPERATE EQUIPMENT WITHOUT PROPER INSTRUCTION.**
- 2. READ DECAL INSTRUCTIONS, CAUTIONS, AND WARNINGS. READ THE SAFETY MESSAGES IN THIS MANUAL AND REPLACE MISSING OR DAMAGED SAFETY DECALS.**
- 3. UNAUTHORIZED MODIFICATIONS TO THE SNOWPLOW AND RELATED COMPONENTS MAY IMPAIR THE FUNCTION AND/OR SAFETY.**

IN SEASON MAINTENANCE

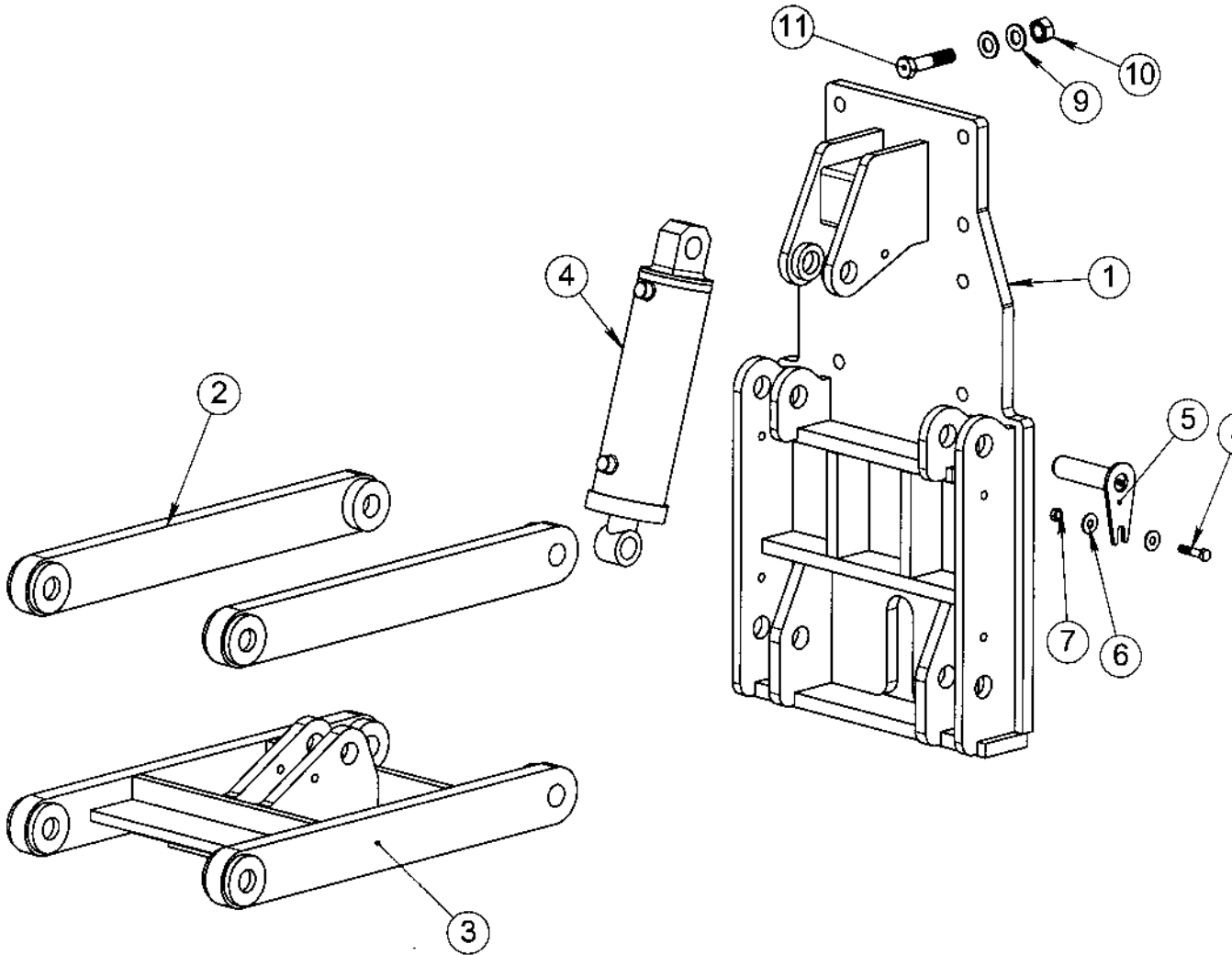
Snow removal equipment must be cared for and maintained regularly. Daily or pre-route inspection and maintenance are necessary. Failure to do so may affect efficiency and safety.

A visual inspection must be carried out after every 8 hours of operation. Look for damaged components, bends, cracked welds or hydraulic leaks. **REPAIR IMMEDIATELY!** It is recommended to re-torque all bolts after the first 8 hours of use and to regularly check for loosened or missing fasteners. Replace any damaged or missing fasteners immediately.

Because of the environment in which snow equipment is expected to operate, hydraulic lines, fasteners, wearable or replaceable items and warning decals may become damaged by snow, ice and road debris. These items must be inspected daily and replaced if necessary to avoid equipment damage or personal injury.

Lubrication of moving parts is of the utmost importance. Exposure to snow, ice, salt and road debris will wash away lubrication quickly and it may be necessary to inspect and reapply lubrication more than once a day.

HENKE STD LIFT GROUP FOR CAT 135H to 163H GRADERS

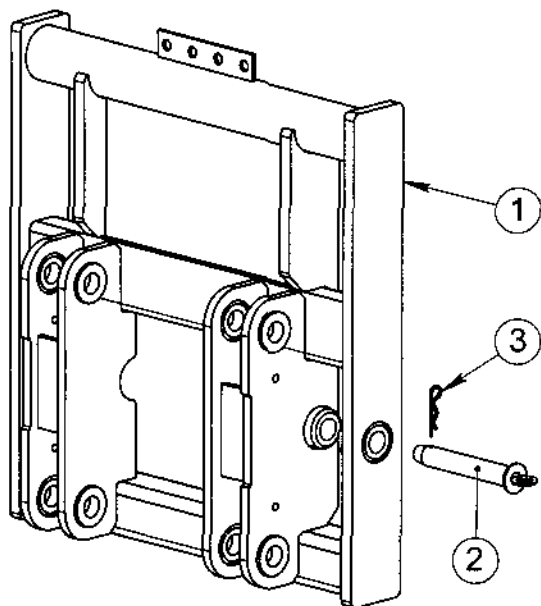


ITEM NO.	QTY.	PART NO.	DESCRIPTION
1	1	2700-A0379	Backplate Assembly
2	2	2700-A378	Upper Arm Assembly
3	1	2700-A0377	Lower Arm Assembly
4	1	7080377	Hydraulic Cylinder, 4-1/2 x 12 x 2
5	10	2700-A0381	Pin Assembly
6	20	7040005	Flat Washer, 1/2" Heat Treated
7	10	7030031	Nut, 1/2-13, Toplock G8 Z
8	10	7020144	Hex Capscrew, 1/2-13 x 2.25 G8
9	24	7040010	Flat Washer, 7/8" Heat Treated
10	12	7030092	Nut, 7/8-9, G8 YZ
11	12	7020291	Hex Capscrew, 7/8-9 x 4 G8

Notes:

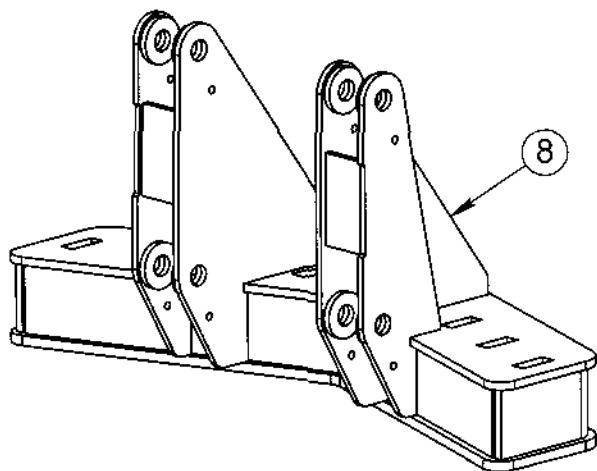
1. See following page for male attachment options.
2. Torque attaching bolts to 650 ft-lbs. "dry" or 500 ft-lbs. "lubricated". "Lubricated" means coated with a lubricant such as engine oil.
3. Optional Hydraulic Hose & Fitting Kit: Henke No. 6184201.

HENKE STD LIFT GROUP MALE ATTACHMENT OPTIONS



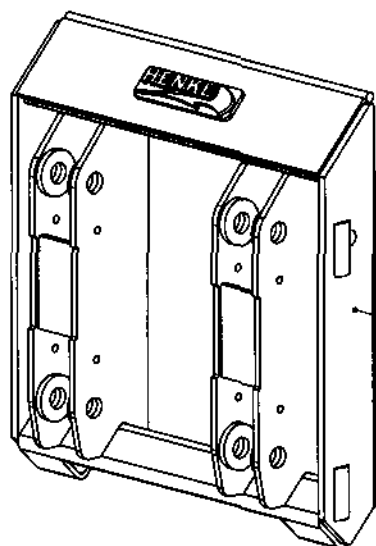
BALDERSON-STYLE MALE

ITEM NO.	QTY.	PART NO.	DESCRIPTION
1	1	2700-A0373	BALDERSON-STYLE WELDME
2	2	1300-A0831	HITCH PIN ASSEMBLY
3	2	7050081	HAIR PIN #8



SCARIFIER HEAD

ITEM NO.	QTY.	PART NO.	DESCRIPTION
1	1	2700-A0360	SCARIFIER HEAD WELDME
NOT SHOWN	5	7070051	SCARIFIER SHANK
NOT SHOWN	5	7070052	SCARIFIER TOOTH
NOT SHOWN	5	2700-0580	"J" WEDGE



AQC MALE

2700-A0395
AQC WELDMENT

Henke Standard Warranty Policy

Henke Manufacturing Corporation(HMC) warrants its products against defects in material and workmanship for a period of 12 months from date of delivery.

HMC, at its option will repair or replace any parts or components found to be defective in materials or workmanship.

Defects will be determined through photos provided by dealer or user, or through physical inspection of returned parts. Parts are to be returned freight prepaid when requested to HMC, labeled with a returned goods authorization number.

Authorization for warranty repair will be faxed to the reporting dealer, and will include labor hours that HMC agrees to credit the dealer, and the Return Goods Authorization Number, if applicable. Credit amounts for agreed labor hours will not exceed 70% of dealer shop selling rate. Mileage, travel time, overtime, or any incidental costs will not be included in warranty consideration. Credits will apply to current or future business with HMC.

This warranty does not include normal wear items such as cutting edges, wear guards, scarifier teeth, etc. Repairs required as a result of misapplication, accidental damage, improper maintenance, improper installation, or negligence are also not covered by warranty.

HMC warranty for any purchased components, such as hydraulic cylinders will be superceded by, and equal to the component manufacturer warranty.

SELLER IS NOT, UNDER ANY CIRCUMSTANCE, LIABLE FOR ANY INCIDENTAL, CONSEQUENTIAL OR PUNITIVE DAMAGES. SELLER EXPRESSLY DISCLAIMS AND EXCLUDES ALL IMPLIED WARRANTIES, INCLUDING ANY WARRANTY OR MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

DEALER WARRANTY PROCEDURE

For units delivered within the past 12 months, report any warranty problems needing repair to our Product support department. Have information ready regarding:

1. Henke unit model and serial number,
2. Model of equipment Henke unit is attached to (prime mover)
3. Description of the problem and any helpful information by the end user. (Photos are always helpful).

Measurements or photos may be requested by Henke engineering for any issues regarding prime mover proximity and clearance, or any other unique considerations of fit and adaptability. These may be necessary for a proper repair recommendation and procedure.

Henke will respond with a written labor hour allowance for Henke participation on a faxed claim form and will ship any required replacement parts. If necessary, a repair procedure will be included on the claim form. A parts invoice will be generated to confirm shipment of the replacement parts.

If defective parts are needed for analysis, Henke will request their return. Any such returned items are to be labeled with the **claim number** and returned to:

Henke Manufacturing Corp
ATTN:Product support
3070 Wilson Av
Leavenworth, Ks. 66048
RGA#_____

The dealer should perform repairs as agreed on a dealer warranty repair order. Return the claim form with a copy of the dealer warranty repair order and service report. Credit as agreed will be issued to the dealer upon receipt of the dealer warranty repair order invoice (Pro-forma invoice), and upon receipt, inspection and warranty confirmation of the returned parts if any.

Parts & Service Assistance

Parts and service assistance is available between the hours of **8:00 AM and 5:00 PM**, Central time, Monday through Friday. **Call 913-682-9000.**

Our web site, **www.henkemfg.com**, is a quick source for parts pricing and many common parts diagrams

Parts purchase orders may be faxed in at any time to **913-682-0300**. Faxed orders are encouraged, as they help insure order accuracy and follow up. Include any special instructions, such as drop ship addresses on your order.