

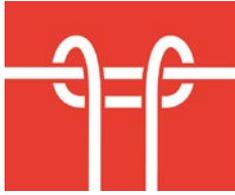
DELTA

3-PT Flexible Harrow



Operator's & Parts Manual

s3deltaharrows.com



S3 DELTA HARROWS INC.
800 S FREMONT STREET
SHENANDOAH, IA 51601
www.s3deltaharrows.com

S3 DELTA HARROWS INC. 3 – POINT FLEXIBLE HARROW WARRANTY REGISTRATION FORM & INSPECTION REPORT

WARRANTY REGISTRATION

This form must be filled out by the dealer and signed by both the dealer and the customer at the time of delivery.

Customer's Name _____	Dealer's Name _____
Address _____	Address _____
City, State/Prov., Code _____	City, State/Prov., Code _____
Phone Number () _____	Email Address _____
Cellular Phone Number () _____	Application: Private <input type="checkbox"/> Commercial <input type="checkbox"/>
Email Address _____	
Model Number _____	
Delivery Date _____	

SAFETY

___ Manual Supplied

I have thoroughly instructed the buyer on the above described equipment which review included the Operator's Manual content, equipment care, adjustments, safe operation and applicable warranty policy.

Date _____ Dealer's Rep. Signature _____

The above equipment and Operator's Manual have been received by me and I have been thoroughly instructed as to care, adjustments, safe operation and applicable warranty policy.

Date _____ Owner's Signature _____

S3 DELTA HARROWS INC.

WARRANTY, POLICIES & PROCEDURES

(Revised Effective May 8, 2014)

1.0 DEFINITIONS

1.1 "Dealer" means the authorized selling Dealer in the United States or Canada from which the Equipment was purchased by the original purchaser;

"Equipment" means all Delta Harrow Product lines, whether purchased from an authorized S3 Delta Harrows Inc. Dealer in the United States or Canada;

"End User" means the original purchaser or the transferee of the Warranty approved by S3 Delta Harrows Inc. as set out in Section 2.1;

"Warranty Registration Form" has the meaning set out in Article 7.0.

2.0 WARRANTY

2.1 S3 Delta Harrows Inc. warrants that all Equipment purchased from an authorized S3 Delta Harrows Inc. Dealer in the United States or Canada shall be free from defects in workmanship and materials for a period of two (2) years from the date of purchase ("Warranty Period").

2.2 The Warranty described herein is provided by S3 Delta Harrows Inc. to the original purchaser of the Equipment from an authorized S3 Delta Harrows Inc. Dealer. The Warranty is transferable during the Warranty Period provided the authorized Dealer from which the Equipment was purchased is notified in writing within ten (10) days of the change in ownership, the transferee provides the Dealer proof of purchase from the original purchaser, and the transfer is approved by S3 Delta Harrows Inc..

2.3 S3 Delta Harrows Inc., at its option, will repair or replace any part covered by the Warranty in Section 2.1 during the Warranty Period on the following conditions:

(a) The End User shall notify the Dealer of the defect within thirty (30) days of failure;

(b) The End User shall produce proof of purchase together with photographs or such other proof of failure as may be requested by S3 Delta Harrows Inc. or the Dealer;

(c) Any Warranty repairs shall be performed by the authorized selling Dealer or other Dealer approved by S3 Delta Harrows Inc.; and

(d) S3 Delta Harrows Inc. determines in its sole and absolute discretion that the defect or failure is covered by the Warranty.

2.3 Warranty repairs or replacement shall be free of charge to the End User for materials, labor and shipping in Year 1 of the Warranty Period. S3 Delta Harrows Inc. shall repair or replace any parts under Warranty in Year 2, but the End User shall be responsible for labor and shipping charges in Year 2.

3.0 NOT COVERED BY WARRANTY

3.1 S3 Delta Harrows Inc. shall not be responsible for the repair or replacement of:

(a) Defective parts or subassemblies incorporated in Equipment that are warranted under original manufacturing warranties from OEM or third party suppliers;

(b) Equipment that has been altered or modified in any manner not approved or authorized by S3 Delta Harrows Inc.; or

(c) Damage caused by normal wear and tear, lack of reasonable and proper maintenance, failure to follow operating instructions in the Operator's Manual furnished with the Equipment, misuse or excessive use, or damage caused by accident, vandalism or Act of God.

4.0 CUSTOMER RESPONSIBILITIES

4.1 In order to benefit from the Warranty set out herein, the End User must:

- (a) Notify the Dealer of the defect within thirty (30) days of failure;
- (b) Produce proof of purchase together with photographs or such other proof of failure as may be requested by S3 Delta Harrows Inc. or the Dealer;
- (c) Retain the defective part or subassembly for a minimum of ninety (90) days following notification of failure to the Dealer and return the defective part or subassembly to the Dealer if so requested at any time during the ninety (90) day retention period. Failure to return the part or assembly to the Dealer within thirty (30) days of request by S3 Delta Harrows Inc. may result in disallowance of the Warranty claim (if no request for return of the defective part is made by S3 Delta Harrows Inc. within the ninety (90) day retention period, the End User may dispose of the defective part or sub-assembly).

5.0 DEALER RESPONSIBILITIES

5.1 In order for the Warranty herein to be valid and for the Dealer to qualify for credit or refund under S3 Delta Harrows Inc.'s Warranty Program, the Dealer must:

- (a) Complete the *Warranty Registration Form* with the purchaser at the time of sale and forward the completed Form to S3 Delta Harrows Inc. within thirty (30) days of sale;
- (b) Review the terms and conditions of the Warranty and *Warranty Registration Form* with the purchaser at the time of sale to ensure the purchaser understands the Warranty, its limitations and his responsibilities for the proper and safe use and operation of the Equipment, and furnish the purchaser with a copy of the operator's manual;
- (c) Request prior approval for Warranty repairs or replacement in every case where the estimated costs of the repair or replacement are expected to exceed one thousand dollars (\$1,000);

- (d) Except where the required parts or sub-assemblies must be ordered, effect the repairs or replacement within twenty (20) days of completion of the Work Order by the Dealer or of delivery by the End User of the defective part or subassembly to the Dealer where Dealer requires the defective part or subassembly to effect the necessary repairs. If the repairs are expected to take longer, the Dealer must notify S3 Delta Harrows Inc. immediately of the reasons for the delay;
- (e) Provide all Warranty repairs and service in accord with S3 Delta Harrows Inc. Service Bulletins or other instructions by S3 Delta Harrows Inc.;
- (f) Effect all repairs and replacements in accordance with labor rates and price lists approved by S3 Delta Harrows Inc., or as prescribed by local provincial or State laws;
- (g) Obtain prior approval of S3 Delta Harrows Inc. if field diagnostic inspection is required. Travel time must be approved;
- (h) Effect the most economical repairs in accordance with the prevailing industry standards in the local geography. Credit will not be allowed for subassemblies or larger combinations of parts if it is practical or more cost-effective to make the repairs to the individual defective part(s). No credit will be allowed for repairs made by outside sources unless pre-approved by S3 Delta Harrows Inc.;
- (i) Ensure that the repair times claimed for specific repairs are consistent with then prevailing industry standards for similar repairs. S3 Delta Harrows Inc. reserves the right to adjust Dealer credit claims where repair times claimed are considered excessive in comparison to comparable claims processed by S3 Delta Harrows Inc.;
- (j) Submit the Warranty Claim Form within forty-five (45) days of completing the repairs or replacement;
- (k) Complete any re-work for deficient or unsatisfactory Warranty repairs at its own cost and expense;

- (l) Comply with the warranties and limitations set out herein. The Dealer is not authorized to make any representations or warranties with respect to any S3 Delta Harrows Inc. Equipment except as expressly set out herein and shall be solely liable for any unauthorized warranties or promises.

6.0 S3 DELTA HARROWS INC. RESPONSIBILITIES

- 6.1 S3 Delta Harrows Inc. shall review all Warranty claims on receipt and shall credit all approved Warranty claims to Dealer's account promptly. All claims for refund shall be reviewed promptly by S3 Delta Harrows Inc.
- 6.2 S3 Delta Harrows Inc. will credit Dealers in accordance with approved or prescribed labor rates. Parts will be credited at Dealer's cost.
- 6.3 S3 Delta Harrows Inc. reserves the absolute and unconditional right to deny or reverse and Warranty claim for parts, labor or any other service or replacement in the case of fraud, error, abuse; where the End User or Dealer have failed to comply with any of the terms or conditions of this Warranty; or where, for any other reason, S3 Delta Harrows Inc. determines the Warranty claim to be invalid, excessive or otherwise unsupported.
- 6.4 S3 Delta Harrows Inc. will issue Service Bulletins as and when necessary to alert Dealers of special repairs or other technical alerts. Each Bulletin will provide detailed instructions and procedures Dealers are expected to adopt and implement.

7.0 WARRANTY CLAIM FORM

- 7.1 The Warranty Claim Form shall be completed as follows:
 - (a) Dealer name, address and account number;
 - (b) Customer/End User Name, address and telephone number;

- (c) Delivery/Purchase Date – *Date when product was delivered to customer;*
- (d) Equipment – *Product Make/Model;*
- (d) Serial Number – *Serial number of the machine on which the repairs were performed.*
- (e) Failure Date – *Date when failure occurred.*
- (f) Notification Date – *Date when End User reported failure to Dealer*
- (g) Repair Date – *Date(s) repairs were completed*
- (h) Description – *Record or description of failure and probable cause. Failed part numbers MUST be included. Complete, accurate and legible descriptions speed up the reimbursement process.*
- (i) Labor Hours – *Repair time only performed by Dealer.*
- (k) Labor Rate – *Labor rates approved by S3 Delta Harrows Inc.;*
- (l) Freight – *shipping charges incurred for receipt of ordered parts (where applicable)*
- (m) Dealer Signature – *Dealer's representative who can verify repairs are complete.*

8.0 LIMITATIONS

- 8.1 The Warranty provisions herein constitute the full extent of the warranties supplied by S3 Delta Harrows Inc. for the Equipment.
- 8.2 Dealer has no authority to make any representations, warranties, conditions or other promises, express or implied, on behalf of S3 Delta Harrows Inc., or to modify any of the terms, conditions or limitations of this Warranty.
- 8.3 Without limiting the generality of the foregoing and to the extent permitted by law, S3 DELTA HARROWS INC. EXPRESSLY DISCLAIMS AND

EXCLUDES ALL WARRANTIES AND CONDITIONS OF MERCHANTABILITY & FITNESS FOR PURPOSE, WHETHER EXPRESS OR IMPLIED, STATUTORY OR OTHERWISE.

- 8.4 Where exclusion of implied or statutory warranties is prohibited by law, any such warranties shall be LIMITED IN DURATION TO THE WARRANTY PERIOD SET OUT HEREIN.
- 8.5 In the event the Warranty herein fails to correct the End User's performance problems caused by the defect or failure, S3 Delta Harrows Inc.'s LIABILITY FOR ANY CAUSE WHATSOEVER (INCLUDING NEGLIGENCE) SHALL BE LIMITED TO THE ACTUAL DAMAGES IN AN AMOUNT NOT TO EXCEED THE PURCHASE PRICE OF THE EQUIPMENT GIVING RISE TO THE WARRANTY CLAIM.
- 8.6 IN NO EVENT SHALL S3 DELTA HARROWS INC. BE LIABLE FOR ANY INCIDENTAL, INDIRECT, SPECIAL OR CONSEQUENTIAL DAMAGES, EVEN IF ADVISED OF THE POSSIBILITY THEREOF, INCLUDING DAMAGES FOR LOSS OF USE OF THE EQUIPMENT, OR LOSS OF BUSINESS OR PROFITS AS A RESULT.

9.0 GENERAL

- 9.1 This Warranty shall be governed by and subject to the *Terms & Conditions of Sale* of the Equipment, including without limitation the "Limited Warranty" and "Governing Law" provisions thereof.
- 9.2 For greater clarity, and subject to any local laws or statutes to the contrary, the provisions of this Warranty shall be governed by the laws of the State of Iowa, and shall be subject to the exclusive jurisdiction of the courts therein.

ASSEMBLY INSTRUCTIONS

NOTE: Refer to Page 1/1A in Parts Section for diagram and description of reference number.

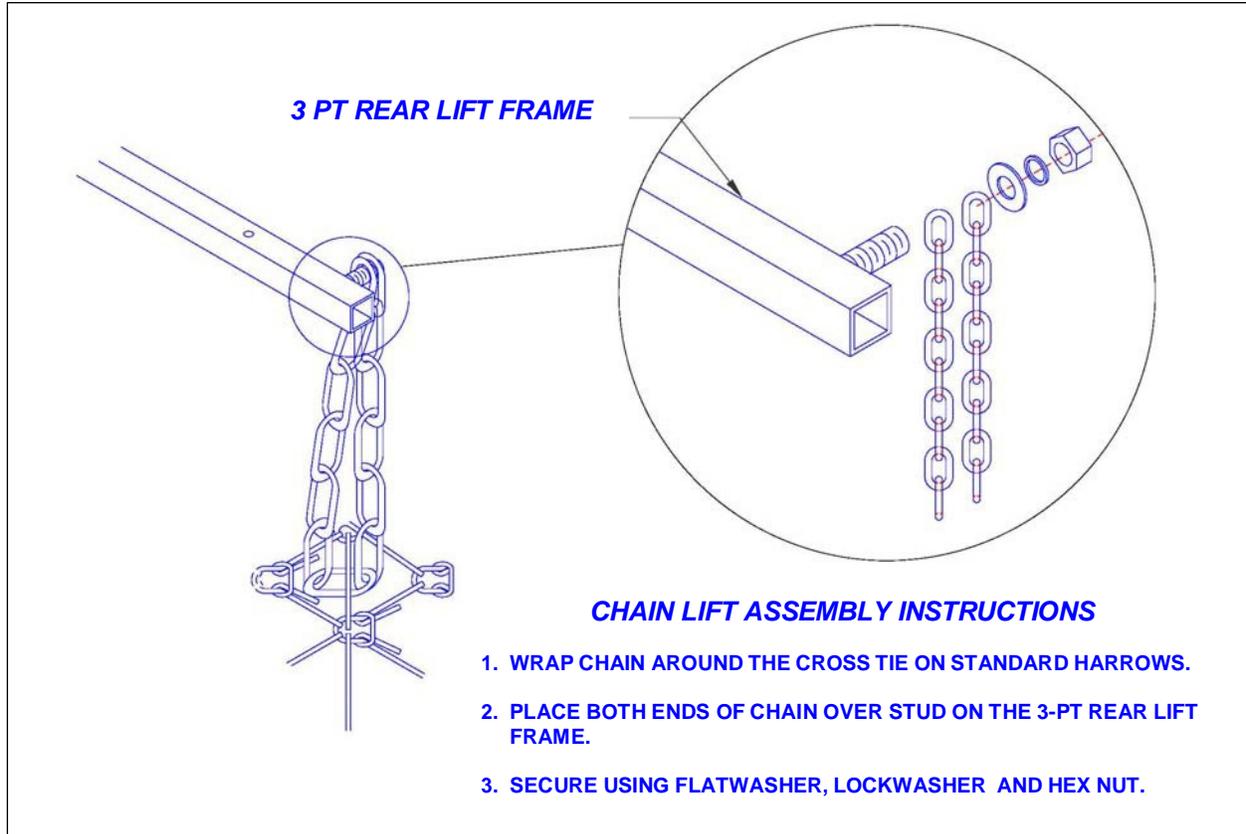
1. Lay harrow flat in desired position: aggressive, non-aggressive or backside.
2. Connect harrow to draw bar hooks through holes.
3. Bolt top bracket assembly (4) between 3 Pt. Hitch frame (1).
4. Place hitch pin (22) through side frame assm. (3), slide hitch pin (22) through the holes in 3 pt. hitch frame (1) also cross brace assm. (2).
5. Bolt rear chain support (8) and rear lift bar (6 A-E) to side frame assm. (3).
6. Attach pull bar (5 A-E) to 3 pt. hitch Frame (1) with lift chain (7).
7. Place lift chain (7) to harrow as shown in diagram.
8. Adjust rear lift position by using 3rd member on tractor.



Delta 3-Point Flexible Harrow

CHAIN LIFT ASSEMBLY INSTRUCTIONS

HARROW SECTION - WITH CROSS TIES

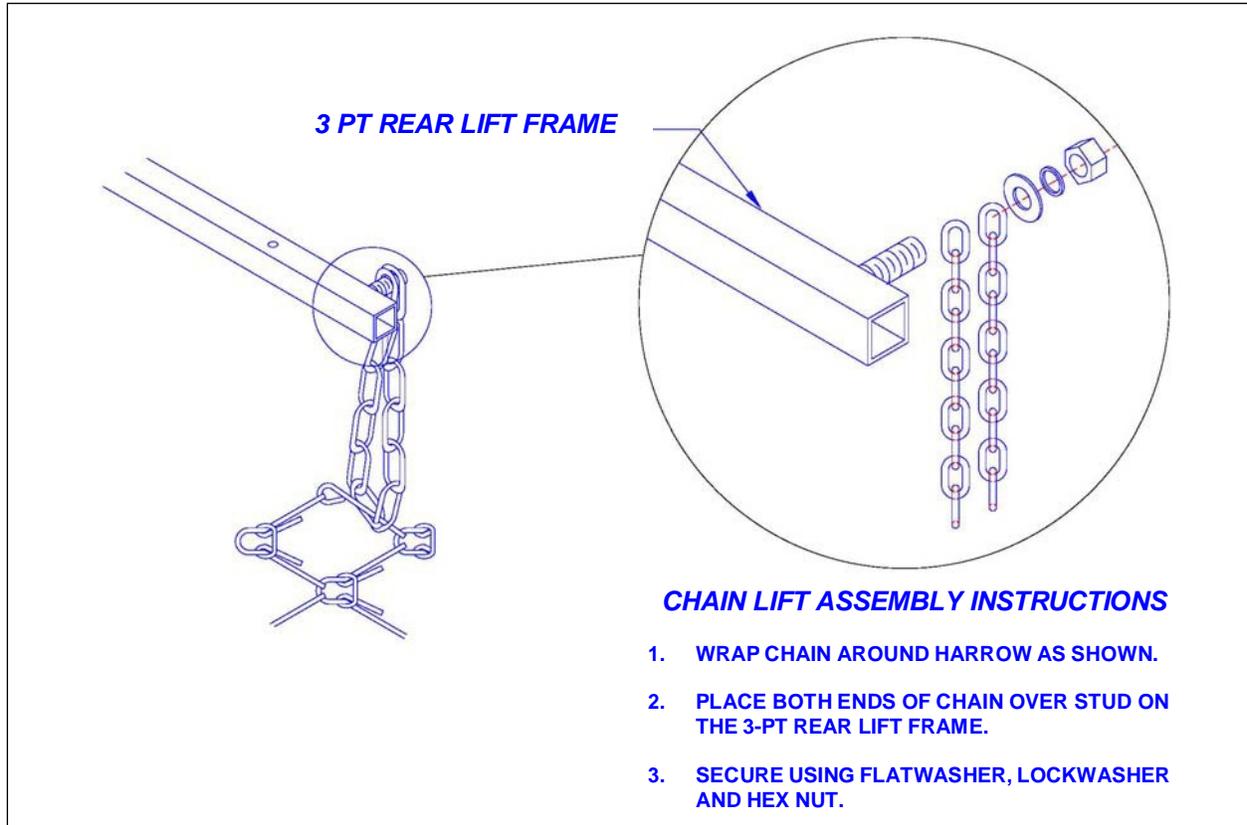


HARROW SECTION - WITH CROSS TIES

Delta 3-Point Flexible Harrow

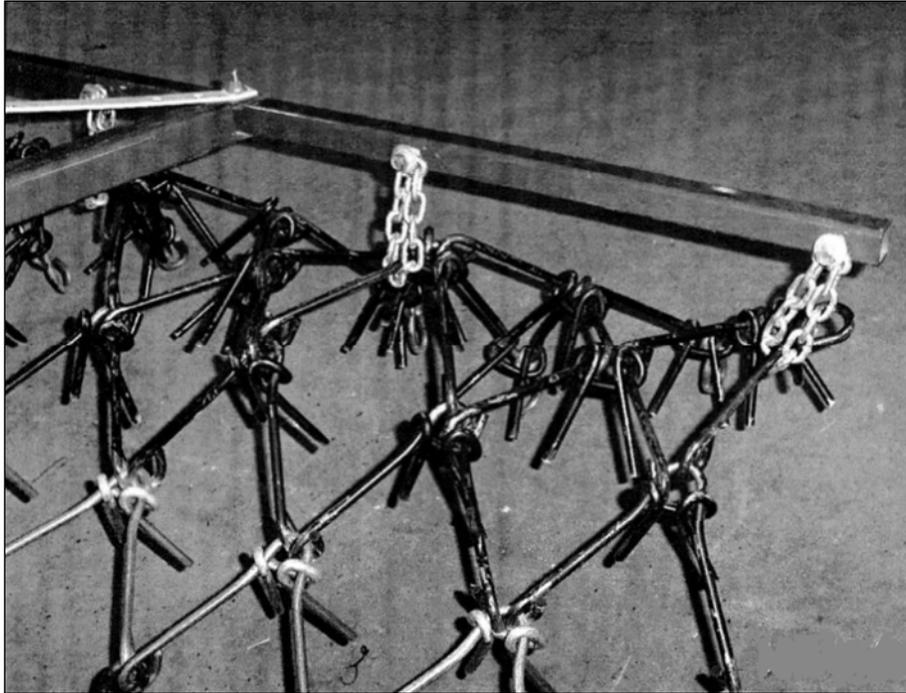
CHAIN LIFT ASSEMBLY INSTRUCTIONS

HARROW SECTION - WITHOUT CROSS TIES



HARROW SECTION - WITHOUT CROSS TIES

HARROW SECTIONS



HARROW SECTION

*3-POINT
FLEXIBLE
HARROW*

PARTS CATALOGUE

INTRODUCTION

This parts manual is set up to show all the service parts for Delta 3-Point Flexible Harrow.

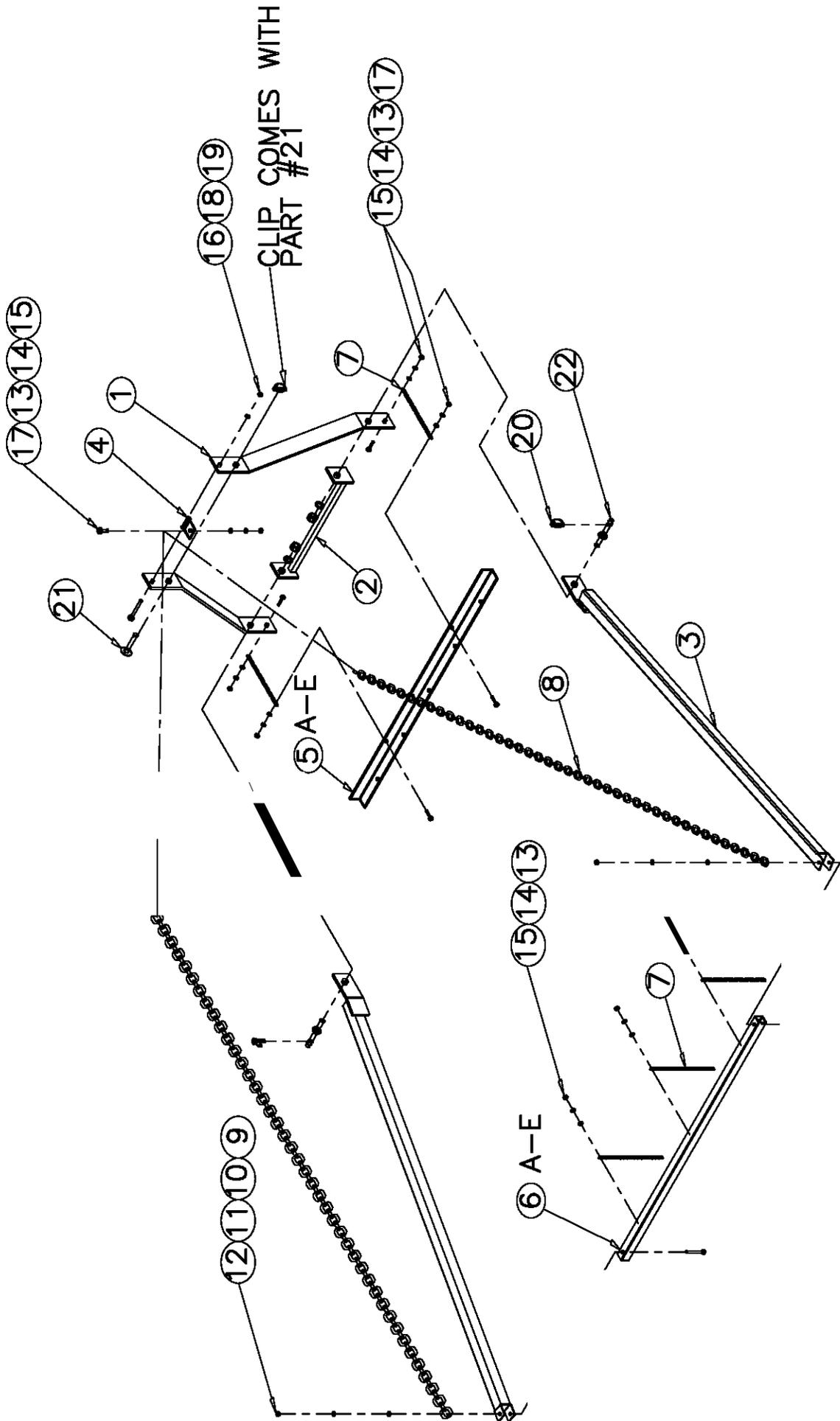
The information required when order parts is as follows:

- part number
- description
- number of pieces required

In producing this parts catalogue every effort has been made to ensure accuracy. If you discover an error, please inform us.

Phone: 1-877-874-3020

S3 Delta Harrows Inc.
800 S Fremont Street
Shenandoah, IA 51601
Ph: (712) 246-3020, Fax: (712) 246-3022

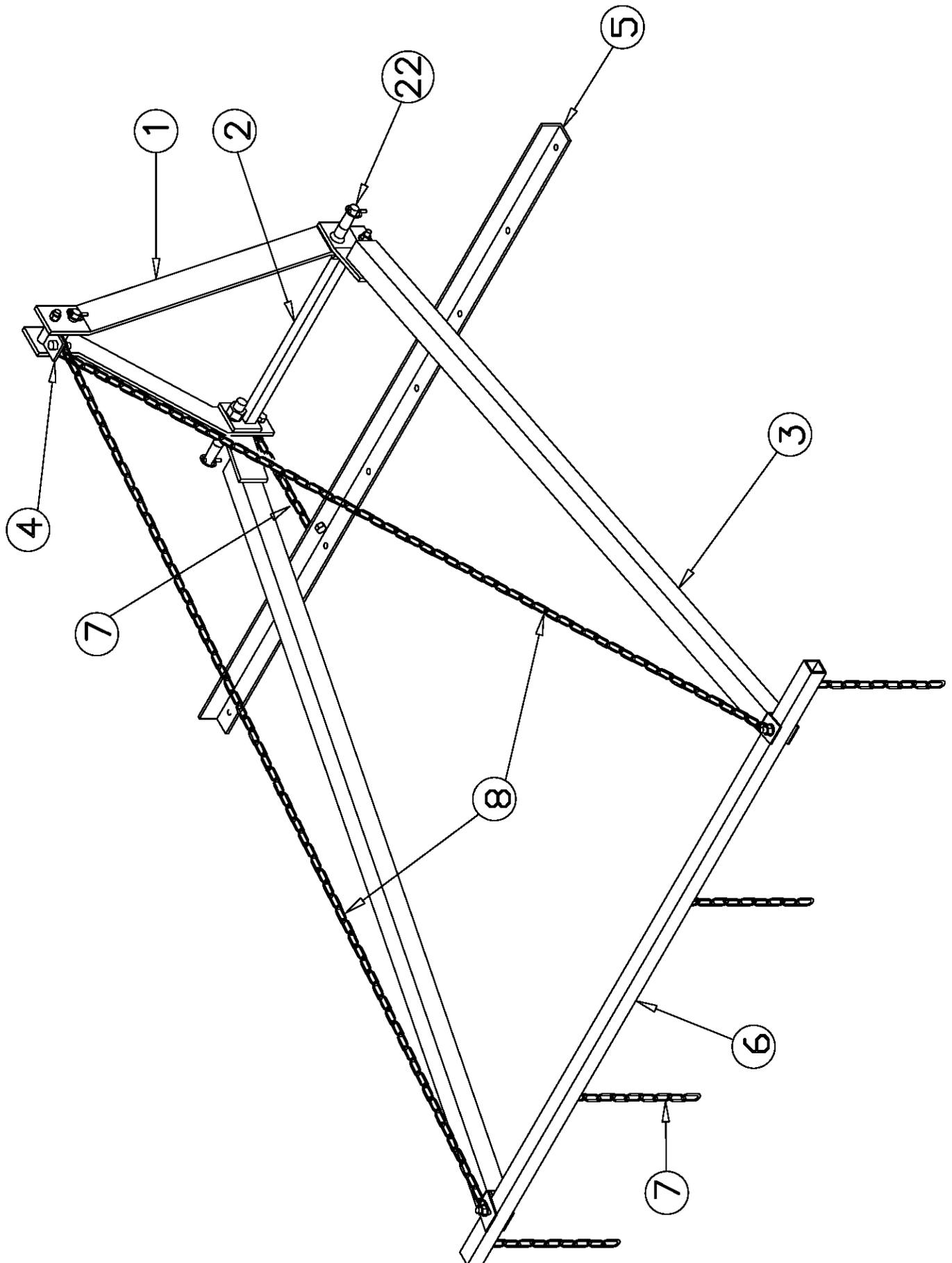


12 11 10 9

3 PT FLEXIBLE HARROW ASSEMBLY
4' - 14'

NO	PART NUMBER	DESCRIPTION/NOTES	QTYS					
			4'	6'	8'	10'	12'	14'
1	10-104325	3 POINT HITCH FRAME	2	2	2	2	2	2
2	10-104328	CROSS-BRACE ASSEMBLY	1	1	1	1	1	1
3	10-104335	SIDE FRAME ASSEMBLY	2	2	2	2	2	2
4	10-104331	TOP BRACKET ASSEMBLY	1	1	1	1	1	1
5	10-104858	4' PULL BAR	1	0	0	0	0	0
5A	10-104336	6' PULL BAR	0	1	0	0	0	0
5B	10-104337	8' PULL BAR	0	0	1	0	0	0
5C	10-104338	10' PULL BAR	0	0	0	1	0	0
5D	10-104339	12' PULL BAR	0	0	0	0	1	0
5E	10-104340	14' PULL BAR	0	0	0	0	0	1
6	10-104859	4' REAR LIFT BAR	1	0	0	0	0	0
6A	10-104341	6' REAR LIFT BAR	0	1	0	0	0	0
6B	10-104342	8' REAR LIFT BAR	0	0	1	0	0	0
6C	10-104343	10' REAR LIFT BAR	0	0	0	1	0	0
6D	10-104344	12' REAR LIFT BAR	0	0	0	0	1	0
6E	10-104345	14' REAR LIFT BAR	0	0	0	0	0	1
7	10-101775	CHAIN LIFT SEGMENTS	5	6	8	9	10	12
8	10-101780	REAR CHAIN SUPPORT	2	2	2	2	2	2
9	4001-22C2550	3/8" x 3" HEX BOLT UNC GR.5	2	2	2	2	2	2
10	5009-02-0375	3/8" FLAT WASHER	2	2	2	2	2	2
11	5000-63-0375	3/8" LOCK WASHER	2	2	2	2	2	2
12	4030-21C0235	3/8" HEX NUT UNC GR.5	2	2	2	2	2	2
13	5009-02-0438	7/16" DIA. FLAT WASHER	10	11	13	14	15	17
14	5000-03-0438	7/16" LOCK WASHER	8	9	11	12	13	15
15	4030-21C0250	7/16" HEX NUT UNC GR.	8	9	11	12	13	15
16	4001-22C2944	1/2" x 3 1/2" HEX BOLT UNC GR.5	1	1	1	1	1	1
17	4001-22C2690	7/16" x 1 1/2" HEX BOLT UNC GR.5	5	5	5	5	5	5
18	5000-03-0500	1/2" DIA. LOCK WASHER	1	1	1	1	1	1
19	4030-21C0260	1/2" HEX NUT UNC GR.5	1	1	1	1	1	1
20	6739-00-0003	PIN - LYNCH 7/16 x 1 3/4	2	2	2	2	2	2
21	6733-00-0004	PIN-LOCK 3/4" X 4 1/2"	1	1	1	1	1	1
22	6735-00-0001	PIN-3 PT 7/8" PIN	2	2	2	2	2	2

3 PT FLEXIBLE HARROW ASSEMBLED
REFER TO PAGE 1A TO REFERENCE NUMBERS.





3-PT Flexible Harrow

Operator's & Parts Manual