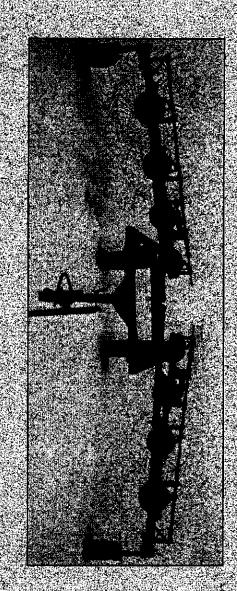


UTIOLD INAL



READ AND UNDERSTAND THIS MANUAL BEFORE OPERATING THIS EQUIPMENT.

MNSAFE OPERATION OR MAINTENANCE OF THIS EQUIPMENT CAN RESULT IN SERIOUS INJURY OR DEATH.

OPENIOR'S MANUAL

Manufactured By

DE MANUSCANIE no,

P.O. BOX 768 • (715) 387-3414 FAX (715) 384-5463 Manshfield, Wisconsin *Saaq*9

H&S BI-FOLD RAKE CONTENTS

SPECIFICATIONS INSIDE	Service Notes	Tigure 4 - B⊩Fold Hydraulic Cylinder	Figure 3 - Center Kicker Wheel - Description	gure 2 - Bi-Fold Caster Wheet - Description	Figure 1 - 8 Wheel BJ-Fold Assembly - Description	Ordering Parts - About Improvements	Decal Location & Identification	ubrication Guide	Sauge Wheels - Center Kicker Wheel	Raking & Windrow Widths	Operation Adjustments	Waming - Owner Must Read And Understand	Warning Decal	Explanation of Safety Signs	Be Alert Symbol	Dealer Pre-Delivery & Delivery Checklist	Warranty & Warranty Registration Card
INSIDE BACK COVER	22	21	20	18-19	16-17		14	12	7	10-14	9	Ø	7	Ö	ű	Ę,	

WARRANTY

Mr. Owner: Before Operating-Read and Understand Operating and Safety Instructions

agreement and no other. need. years of development have made available these quality machines to assure you the performance and reliability you H&S Manufacturing Co., Inc. truly believes you have made a wise choice and a sound and lasting investment. Many We ask you to read the following agreement and warranty as this unit is subject to this warranty and

THE H&S WARRANTY

H&S Manufacturing Co., Inc., warrants this unit to be free from breakage or malfunctions due to defects in material and or workmanship for a period of one year from date or original sale on parts and innet allator, wo years parts. Should such breakage or malfunction occur within warranty period the liability of H&S, its employees, agents, authorized administors, and dealers (Horizonta) and salers is in the processes) finited to repeating a finite processes and services of the period of the part of parts as allers is in the processes within the opening parts and intended allows, and dealers (Horizonta) and salers is parts to period the liability of H&S, its employees, agents, authorized containtuders, and dealers (Horizonta) and salers is parts to period the liability of the period of the parts of the period of the period of the parts of

IMMEDIATELY TO MAKE WARRANTY EFFECTIVE FILL OUT AND MAIL

City



City City

State

WARRANTY REGISTRATION

Date of Purchase

Purchaser Dealer State Model Address Address Νþ

Signature of original buyer

IMPORTANT!

this card is received and recorded at H&S Mfg. Co. on the card. The H&S Warranty is valid "only" after Mail at once. No postage is required in the U.S.A. Tear on dotted line, provide the information requested

This Is Your Warranty Card And Mail Immediately Please Fill Out



NO POSTAGE
NECESSARY
IF MAILED
IN THE
UNITED STATES

BUSINESS REPLY MAIL FIRST CLASS MAIL Permit No. 195 Marshfield, WI 54449

POSTAGE WILL BE PAID BY ADDRESSEE

H&S Manufacturing Co., Inc. PO Box 768

Marshfield - Wt 54449-9963



AFTER COMPLETION, DEALER SHOULD REMOVE AND RETAIN FOR RECORDS

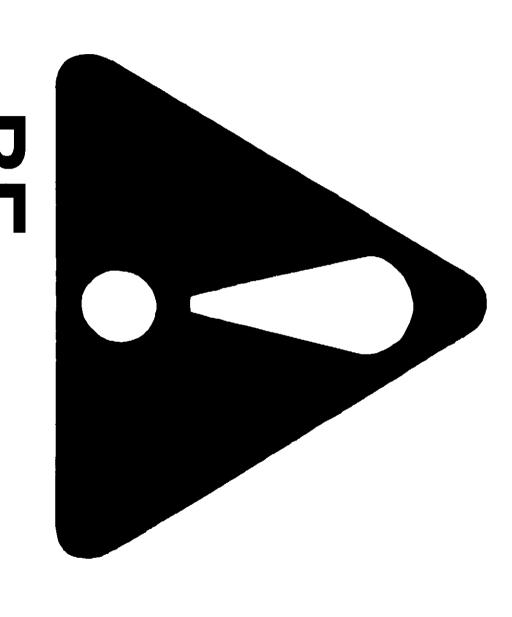
H&S DEALER <u>PRE-DELIVERY</u> CHECK LIST

After the Bi-Fold Rake has been completely set-up, check to be certain it is in correct operating order before delivering to the customer. The following is a list of points to inspect. Check off each item as you have made the proper adjustments and found the item operating satisfactorily.

Signature of Original Buyer	
Dy	
R.	
Dealer's Name	Date Delivered
Record Serial Number on Page 15 of this Manual. Have customer sign a completed "Warranty Registration," and mail it promptly.	Record Serial Number on Page 15 of this Manual Have customer sign a completed "Warranty Regis
Give the customer Owner's Manual and make sure he reads and understands all operating and service instructions.	Give the customer Owner's Manual ar service instructions.
Explain to customer that regular lubrication is required for proper operation and long life of machine. Show customer the lubrication section of this Manual.	
Explain to the customer that the pre-delivery inspection was made. Explain to the customer all the safety precautions they must exercise when operating this unit. Explain raking and windrow width adjustments.	
This pre-delivery check list, when properly filled out and signed assures the customer that the pre-delivery service was satisfactorily performed.	This pre-delivery check list, when properly filled ouservice was satisfactorily performed.
ner.	Check off each item as you explain it to the customer
This check list that follows is an important reminder of valuable information that should be passed on to the customer at the time this Bi-Fold Rake is delivered.	This check list that follows is an important reminde customer at the time this Bi-Fold Rake is delivered.
DEALER <u>DELIVERY</u> CHECK LIST	DEALER <u>DEL</u>
ector) (Inspection Date)	(Signature of Pre-Delivery Inspector)
Serial Number	
Model Number	(Dealer's Name)
	All decals are in place and legible.
	(rake sitting level)All bolts and fasteners are tight.
free. when lowered into raking position.	All mechanisms are operating trouble free.Rake wheels touch ground in unison when lowered into raking position.
All grease fittings have been lubricated - see lubrication guide in this manual.	All grease fittings have been lubricated

Note: Warranty is not valid until warranty card is completed and returned to H&S Mfg. Co., Inc.

 	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		
		;	



# ALERT!

YOUR SAFETY IS INVOLVED.

THIS SYMBOL IS USED THROUGHOUT THIS BOOK WHENEVER YOUR PERSONAL SAFETY IS INVOLVED. TAKE TIME TO BE CAREFUL. REMEMBER: THE CAREFUL OPERATOR IS THE BEST OPERATOR. MOST ACCIDENTS ARE CAUSED BY HUMAN ERROR. CERTAIN PRECAUTIONS MUST BE OBSERVED TO PREVENT THE POSSIBILITY OF INJURY OR DAMAGE.

### TRACTORS

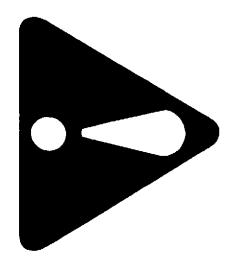
This operator's manual uses the term "Tractor" when identifying the power source for towing and lifting Rake

# H&S MANUFACTURING CO. INC.

## RECOGNIZE SAFETY INFORMATION

This is the safety-alert symbol. When you see this symbol on your machine or in this manual, be alert to the potential for personal injury.

Follow recommended precautions and safe operating practices.



### **UNDERSTAND SIGNAL WORDS**

A signal word—DANGER, WARNING, or CAUTION—is used with the safety-alert symbol. DANGER identifies the most serious hazards.

Safety signs with signal word DANGER or WARNING are typically near specific hazards.

General precautions are listed on CAUTION safety signs





## FOLLOW SAFETY INSTRUCTIONS

Carefully read all safety messages in this manual, and all safety signs on your machine. Follow all recommended precautions and safe operating procedures.

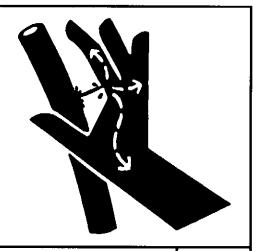
Keep signs in good condition. Immediately replace any missing or damaged signs.

# AWARNING

# HELP AVOID INJURY

- READ & UNDERSTAND THE OPERATORS MANUAL PROVIDED WITH THIS MACHINE. IF MISPLACED CALL H & S MANUFACTURING AT 715-387-3414 WITH MODEL AND SERIAL NUMBER.
- UNDERSTAND ALL SAFETY WARNINGS AND FUNCTION OF CONTROLS.
- KEEP SAFETY DEVICES IN PLACE AND WORKING
- KEEP YOURSELF AND OTHERS WELL CLEAR OF MOVING PARTS.
- DISCONNECT ALL POWER BEFORE SERVICING OR CLEANING THIS MACHINE.

5896A



# **AWARNINO**

# **DO NOT GO NEAR LEAKS**

- High pressure oil easily punctures skin causing serious injury, gangrene or death.
- If injured, seek emergency medical help.
   Immediate surgery is required to remove oil.
- Do not use finger or skin to check for leaks.
- Lower load or relieve hydraulic pressure before loosening fittings.

## **H&S BI-FOLD RAKE**



# WARZIZG

# TO AVOID SERIOUS INJURY OR DEATH

MEMBER OR EMPLOYEE, IS FAMILIAR WITH THESE SAFETY PRECAUTIONS WHO OPERATES FOLLOWING INFORMATION. IN ADDITION, MAKE SURE THAT EVERY INDIVIDUAL BEFORE YOU ATTEMPT TO OPERATE THIS EQUIPMENT, READ AND STUDY THE OR WORKS WITH THIS EQUIPMENT, WHETHER FAMILY

DO NOT attempt to perform maintenance or repair with tractor running

DO NOT step up on machine at any time.

DO NOT allow minors to operate or be near the machine

THE MACHINE DO NOT ALLOW PERSONNEL OTHER THAN THE QUALIFIED OPERATOR NEAR

Loose or floppy clothing should not be worn by the operator.

adjusting the machine. Stop the tractor engine and allow all mechanisms to stop before cleaning, working on, or

STAY CLEAR of hydraulic lines and fittings, they may be under extreme pressure or heat. Stay clear of rake when raising or lowering rake wheels.

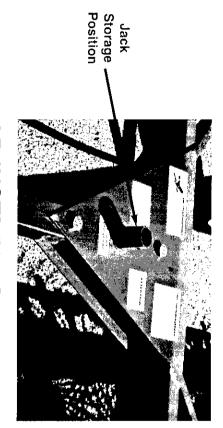
locked in place. Always make sure pins (BFR26) holding Bi-Fold arms in transport position are securely

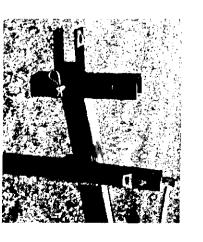
shielded in order to assure proper operation. In addition, the operators manual and closely. decals on the machine itself warn you of further danger and should be read and observed exposed moving parts for his protection. However, some areas cannot be guarded or H&S Mfg. Co. always takes the operator and his safety into consideration and guards

# ATTENTION - BE ALERT - YOUR SAFETY IS INVOLVED Study The Above Safety Rules

### OPERATION

- Check for proper assembly and adjustment and make sure that all bolts are tightened. Securely retighten after a periodically thereafter. Wheel bolts should be tightened at 85-95 ft./lbs. of torque. tew hours of operation, as bolts can loosen up on new machinery. Check wheel bolts upon delivery and
- Check the tires and inflate to the recommended pressure
- ών Adjust tractor hitch (13 to 17 inches above ground) and attach rake to tractor with a hitch pin that cannot bounce
- 4 Remove weight from lift jack. Remove jack from pipe mount and place on convenient storage mount located on hitch gusset near main frame of rake
- CJI Connect hydraulic hose from rake to single or double acting valve on the tractor
- 7.6 Lubricate the machine completely.
- rake tooth bolts after the first 100 acres. (Part No. T175) Check periodically thereafter. On all rake wheels, tooth bolts must be torqued to 40 ft. lbs. to help prevent excessive tooth breakage. Re-torque





### ADJUSTMENTS

### HTCH

There are ten different positions to adjust the hitch on your new Bi-Fold Rake.

preset at the factory. Adjustment of individual rake wheels should not have to be changed as these are

obstacle without affecting ground contact of rake wheels. adjustment tube when rake is opened to raking position. This clearance is necessary to allow main frame to vary in height when road wheel passes over an Adjust hitch so main frame of rake is approximately two inches lower than width

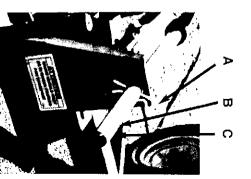
### TRANSPORT LOCK

or is being transported. This will ensure rake wheels will not drop or lower during lock pin. This pin should be in the transport hole (A) when rake is not being used Located at the front of each bank of rake wheels on the lift tube is the transport

end of lift pipe. In this position downward movement of rake wheels is lessened. floatation range both up and down for raking on hilly or uneven ground. On flat ground and you are ready to rake. In this position, rake wheels have the widest wheels until cylinders are completely collapsed. Rake wheels will now be on the cylinders. Remove lock pin from transport hole and place in convenient storage When you are ready to rake, This pressure can be eliminated by placing lock pin in the second hole (B) from level ground, you may experience excess ground pressure on the rake wheels hole (C) at the end of lift tube. Open rake to desired raking width and lower completely raise rake wheels with hydraulic

cannot unfold. Transport lock pin must be in transport hold so rake wheels cannot in transport position. Width adjustment pin must be in transport position so rake Raking with one side only can be accomplished by leaving opposite side of rake

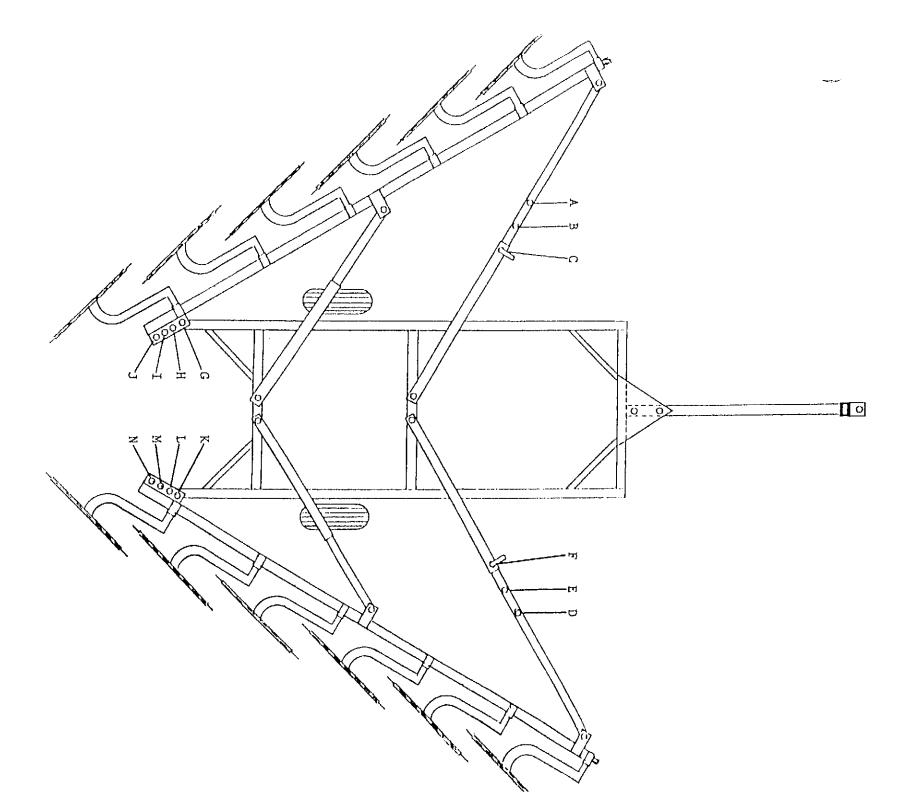




RAKING AND WINDROW WIDTHS
Listed below are numerous raking and windrow widths at which your Bi-Fold Rake can be set. These widths are only a guide, as type, density, and length of hay and heights of stubble will cause these measurements to vary. In heavy dense hay, windrow width will be approximately the width listed in the chart below. In lighter hay windrow widths can vary up to approximately twelve inches narrower than listed. The widths listed below are measured from the point at which the rake wheel teeth strike the ground.

Use the illustration on the opposite page for reference.

ଦ	Ι	I		-	_	د	د_	د_	ſ	Position of Rear Holes Left Side
**	Χ.	ρ	, , ,	F	Z	*	_	3	Z	Position of Rear Holes Right Side
A	ВА	⊞ ≯ ≯	C B A	CCBAA	CBAAA	B ( B ≯	O O B B > >	CBB>>	CBBAAA	Position of Front Holes Left Side
0	0 0	m m O	000	m o m m o	ס חור וד וד	m o o o	momomo	<b>חחחחח</b>	חחת חת דר וד	Position of Front Holes Right Side
13'6"	13,4" 14'3;	ָּטָ בְּ מָ	12.11" 14.11"	12'8" 13'10" 14'10" 14'6" 15'8"	12'8" 13'9" 14'10" 15'10"	12'8" 13'10" 14'10" 14'10"	12.4 13.6 13.8 14.8 14.7	11'10" 13'2" 14'2" 14'2" 15'3" 16'4"	11'6" 12'8" 13'10" 13'10" 15'	Raking Width
59''	57" 52"	58" 58"	55, 63,	56 60 59 59 59	72" 65" 60" 54"	68" 60" 58"	70" 67" 62" 58" 57"	70" 68" 64" 62" 58"	75" 72" 69" 66" 64" 58"	Windrow Width



### GAUGE WHEELS

ground contact of rake wheels height when road wheel passes over an obstacle without affecting position. This clearance is necessary to allow main frame to vary in lower than width adjustment tube when rake is opened to raking Adjust hitch so main frame of rake is approximately two inches contour of the ground when operating on rough or sloping ground. the rake wheel beams and allow the rake wheels to better follow the and twelve wheel Bi-Fold Rake. These wheels assist in supporting Outboard gauge wheels are standard equipment on the eight whee

arm beams when moving through ditches, etc. transport. This eliminates undue stress on gauge wheels and rake Gauge wheels must be tilted up on their mounting brackets for

2" Clearance

### GAUGE WHEEL BRAKE

enough tension to prevent zig zag motion at raking speeds, but still brake. Adjust brake by tightening bolt (A). Brake should have allow wheel to pivot when making corners. Located at the top of the gauge wheel pivot spindle is an adjustable





## OPTIONAL EQUIPMENT

### CENTER KICKER WHEEL

rake wheels. when hydraulics are activated to raise left and right hand banks of up. Controlled with a hydraulic cylinder, the kicker wheel will raise taying in the center of the rake out of stubble for easier baler pick hay is laying out flat, this extra wheel allows you to raise the hay An optional center kicker wheel is available for the Bi-Fold Rake. If



Working position



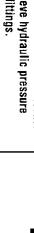
Working Position



## PWARZIZ

### High pressure oil easily punctures skin causing **DO NOT GO NEAR LEAKS**

- If injured, seek emergency medical help. serious injury, gangrene or death. Immediate surgery is required to remove oil.
- Do not use finger or skin to check for leaks.
- before loosening fittings. Lower load or relieve hydraulic pressure





Transport Position

## **LUBRICATION GUIDE**

### **GREASE FITTINGS**

prevent accumulation of chaff or grit around the bearings. Make sure grease comes out around the shaft on the sleeve type bearings. Wipe off excess grease to kicker wheel. If these are lubricated properly and often enough it will prolong the life of the Bi-Fold Rake. Grease daily during normal use and before and after storage. Use a good grade of high quality grease There are twelve grease fittings on your H&S Bi-Fold Rake. Thirteen fittings if equipped with optional center

### LOCATION

Listed and shown below are the description and location of the grease fittings.

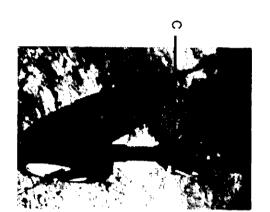
- A. (8) one on each rake wheel arm
- (2) one on each hydraulic lift bracket
- (2) one on each gauge wheel swivel point

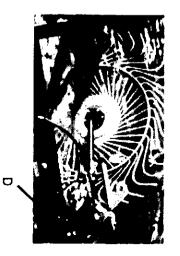
### (OPTIONS)

D. one on center kicker wheel pivot









# H&S BI-FOLD RAKE DECAL LOCATION

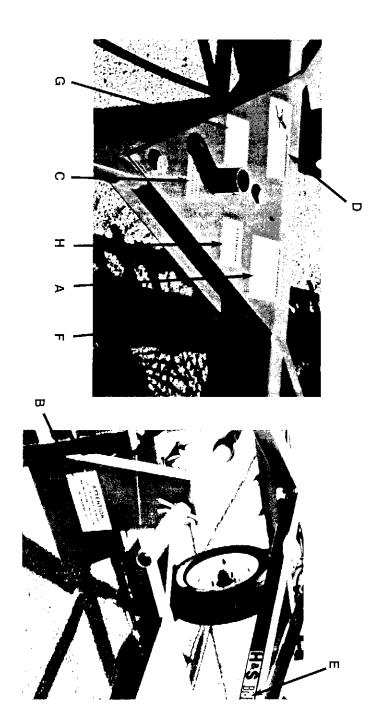
various decals to aid in operation, and warn of danger or caution areas. Pay close attention to all decals. Your H&S Bi-Fold Rake was manufactured with operator safety in mind. Located on the Bi-Fold Rake are



REMEMBER: DECALS ARE FOR YOUR PROTECTION AND INFORMATION. DO NOT REMOVE ANY OF THESE DECALS. IF DECALS ARE LOST, DAMAGED, OR IF YOUR BI-FOLD RAKE IS REPAINTED, REPLACE ALL DECALS.

by ordering a complete set. Listed below are the decals on your H&S Bi-Fold Rake. These decals may be ordered by part number, or

		エ	വ	771	m	D	0	₿	A	ITEM
112699		12197A	BFR			11599	7188B	11591	5896A	PART NO.
Complete Set of Decals	(2) Red Reflectors	Attention: Raise Rake Wheels	Patent Numbers	Model - Serial Number	H&S Bi-Fold Rake (4)	Warning - Do Not Go Near Leaks	Jack Position	Attention: Gauge Wheels (2)	Warning - Help Avoid Injury	DESCRIPTION



# **INSTRUCTIONS FOR ORDERING PARTS**

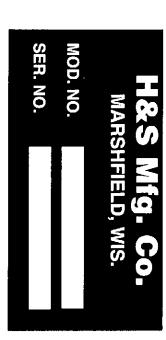
service if you will provide him with the following. All service parts should be ordered through your authorized H&S dealer. He will be able to give you faster

- 1. Model H&S Bi-Fold Rake
- Serial Number Serial number is located on the front main frame cross tubing left side of hitch.
- 'n Complete parts number and description, as shown in parts lists
- က If your dealer has to order parts - give shipping instructions

VIA truck - large pieces (please specify local truck lines)

VIA United Parcel Service (include full address)

VIA Parcel Post



PLEASE RECORD NUMBERS FOR YOUR UNIT FOR QUICK REFERENCE

# **ABOUT IMPROVEMENTS**

H&S MFG. CO. IS CONTINUALLY STRIVING TO IMPROVE ITS PRODUCTS

previously sold. We must therefore, reserve the right to make improvements or changes whenever it becomes practical to do so, without incurring any obligation to make changes or additions to the equipment

### FIGURE 1 8 WHEEL BI-FOLD RAKE ASSEMBLY

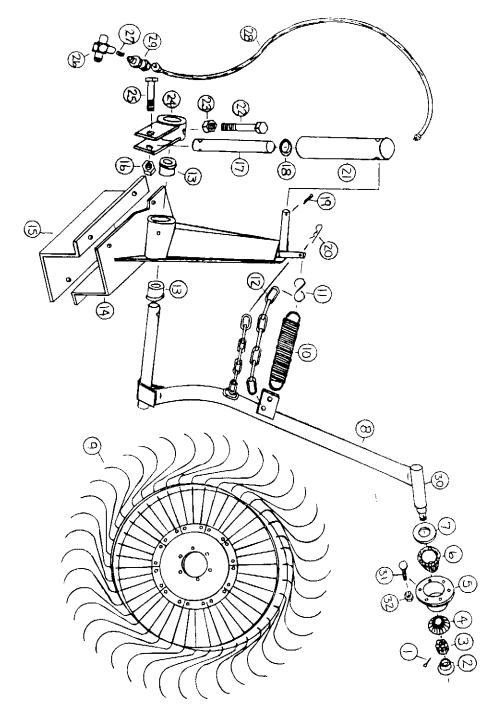
* 4.	5	* +	40.	39.	38.	37.	36.	*	35.	34.	*	33.	32	<u>3</u> 1.	30.	29.	28.	27.	26.	*	25.	24.	23.	22	21	20.	19.	<del>.</del> 8	17.	16.	15.	14.	3	2	<u>-</u>	10.	9.	œ	7.	9	'n	4.	ċΩ	'n		Ö
BFR40	מסרום	BFR37A	BFR36	BFR140	BFR82	BFR33	3G22	T165	T164	BFR32	T171	T170	T172	T173	T163	T168	T166	T179	T169	BFR31	T174	T178	T166	T175	T176	BFR145	BFR27	BFR26	ES7	BFR88	BFR87	BFR23	BFR138	HE6	HE7	BFR129	BFR7	BFR6	BFR5	12N14	BFR4	BFR3	BFR2	23N67	BFR86	PART NO.
Hyd. Lift Bracket LH Hyd. Lift Bracket RH	חמאפ אוון חוו	Rake Arm LH	Rake Wheel Spindle	Chain	Pipe Clamp	Washer	Roll Pin	Inner Race	Inner Bearing	Rake Wheel Hub	Outer Race	Outer Bearing	Nut	Hub Cap	Seal	10mm x 25mm Bolt		Rake Wheel Center	Cotter Pin		LH Rake Wheel or Kicker	Rake Tooth Clip	10mm Nut	10mm x 25mm Carr. Bolt	Rake Wheel Tooth	Lifting Pipe	Bronze Bushing	Pin	Hair Pin	Outer Sleeve	Inner Sleeve	3/4" x 4" Bolt Gr. 5	,	3/4" x 4-1/2" Bolt Gr. 5	Lock Nut	Hitch	Hair Pin	Pole	Hitch Pin	Jack Mount	Jack Pin & Chain	Jack Handle	Clamp	Hose Clamp	Hyd. Pipe	DESCRIPTION
NOTE:	-	* *	×	82.	81.	80.	79.	78.	77.	76.	75.	74.	73.	72.	71.	70.	69.	68	67.	66.	65	64	63.	62.	61.	60.	59.	58.	57.	*	56.	55.	5 <b>4</b> .	ω i Συ i	52	<u>51</u>	50.	49.	48.	47.	46.	45.	44.	*	43.	NO.
BFR128 Tire 20:	סרת/ס	BFR75	BFR154	JB82	BFR554	BFR555	BFR144	BFR143	BFR127	BFR150	BFR108	BFR136	BFR137	BFR34	BFR84	F97	BFR83	BFR67	BFR66	BFR65	BFR64	BFR63	BFR62	BFR61	BFR60	BFR59	BFR58	BFR57	BFR56	BFR149	BFR148	HE59	BFR53	BFB51	BFR74	BFR107	HE8	BFR48	BFR47	T143	BFR47	T144	BFR46	BFR290	BFR289	PART NO.
lire 205 x 15 ot Shown	The Assembly Hake wheel	Hub Assembly Road Wheel	RH Outer Sleeve	Bushing 1/2" to 3/8"	Flow Valve	Adapter	Nut	Stud Bolt	3/4" Nylon Lock Nut	Main Frame	Sleeve Pivot Washer	Spring Bracket	Hair Pin	Pipe Clamp	Compression Spring	SMV Holder	Hyd. Lift Clamp	Wheel 5 x 15	Hub Cap	Cotter Pin	Nut	Washer	Outer Bearing	Outer Race	Hub	Inner Race	Inner Bearing	Seal	Spindle	LH Axle Assembly	RH Axle Assembly	3/8" Elbow	Hvd. Hose	Pivot Point Plate			3/4" x 2-1/4" Bolt Gr. 5	Poly Washer	Spacer	Hydraulic Cylinder Pin	Spacer	Clip Pin	Hyd. Hose	Rake Beam RH	Rake Beam LH	DESCRIPTION

### FIGURE 2 BI-FOLD CASTER WHEEL

<b>NO</b> .	PART NO. BFR197 ES7	<b>DESCRIPTION</b> Caster Locking Pin Hair Pin
* 4	BFR151	RH Gauge Bracket
ຸ	Т60	Lock Nut 5/8"
ნ.	BFR335	Roll Pin 5/16"x2"
7.	BFR98	Tubing End Washer
œ	T79	Bronze Bushing
9.	BFR262	Handle Bracket
10.	BFR213	Spring
<b>1</b>	BFR264	Complete Fork
12.	BFR50	Bolt 3/4 - 10 x 7" Gr. 5
13.	BFR101	Wheel Bearing Spacer
14.	BFR102	Anti-wrap Cap
15.	BFR103	Seal
16.	T32	Bearing
17.	T33	Race
18.	BFR104	Lock Nut
19.	X41	Handle Grip
20.	BFR105	Tire
21.	BFR106	Wheel
22.	BFR260	Brake Assembly
23.	BFR261	Brake
	•	

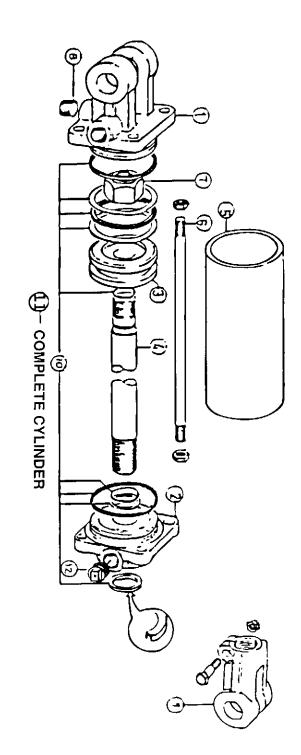
NOTE: * Means Not Shown

# FIGURE 3 OPTIONAL KICKER WHEEL ASSEMBLY



16.	15	14	3	12	<u></u>	õ	9	∵∞ 	-1	•	ڧ	ဂ်ာ	•	4	ယ	Ŋ		Ņ
9S17	BFR113	BFR112	Т78	BFR111	BFR71	BFR110	T174	BFR109	T163	T165	T164	BFR32	T171	T170	T173	T175	T169	PART NO.
Lock Nut 1/2 x 13	Bottom Bracket	Lift Tower	Bushing	Chain 18 Links	S-Hook	Kicker Wheel Spring	LH Rake or Kicker Wheel	Kicker Arm Assembly	Seal	Inner Race	Inner Bearing	Rake Wheel Hub	Outer Race	Outer Bearing	Nut	Hub Cap	Cotter Pin	DESCRIPTION
NOT	32.	31.	30.	*	29.	28.	27.	26.	25.	24.	23.	22.	21.	20.	19.	18.	17.	NO.
NOTE: * Means Not Shown	T166	T168	BFR36	BFR617	BFR122	BFR121	BFR120	BFR74	BFR119	BFR118	K93	BFR117	BFR116	ES7	Т37	BFR115	BFR114	PART NO.
ot Shown	10mm Nut	10mm x 25mm Bolt	Spindle	Adapter Union W/Orifice	Male Adapter Union	Hose	Orifice	Tee	1/2-13 x 2-1/4" Gr. 5	Cyl. Lift Bracket	Lock Nut 3/8-16	3/8-16 x 2-1/2" Gr. 5	Hydraulic Cylinder Tube	Hair Pin	Cotter Pin 1"	"O" Ring	Piston	DESCRIPTION

FIGURE 4 BI-FOLD RAKE HYDRAULIC CYLINDER



12	<u>=</u>	10.	ö	œ	7	ပ်	Ċ1	4.	ω	'n	<del>,</del>	NO O
BFR70	BFR69	23N151	23N150	23N149	23N148	T186	BFR68	T184	23N144	23N143	23N142	PART NO.
Vent Plug	Complete Cylinder	Seal Kit	Rod Clevis	Plug	Piston Nut	Tie Rod.	Cylinder Tube	Rod	Piston	Rod Cap	Clevis Cap	DESCRIPTION

### -SERVICE NOTES -

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### H&S BJ-FOLD BAKE

performance you get from your machine is largely dependent upon how well you read and understand this manual and apply this knowledge. There is a right and a wrong way to do everything. Please do not Keep this manual available for ready reference assume that you know how to operate and maintain your Bi-Fold Rake before reading this manual carefully Your new H&S Bi-Fold Rake has been manufactured of the finest quality materials and components. The

## SPECIFICATIONS

Tire Size	Gauge Center	Swing	Raking	Numb	Weight Adjusta	Height	Overa Overa
8	Gauge Wheels (2) Genter Kicker Wheel	Windrow Widths Swing Away Jack w/Storage Position	Overall Diameter of Rake Wheel Raking Widths	Number of Rake Wheels Number of Teeth per Rake Whee	Weight Adjustable Hitch	Width Outside Tires Height to Bottom of Frame	Overall Width : Transport Overall Length - Transpor
	s (2) Wheel	ack ws	ter of	ike Who eth per	<b>9</b> 1	Tires	- Trans n - Tran
		Storage	Pake W	els Hake V		ame	port.
		Positio	feel .	wheel.			
		<b>a</b>					
<u>.</u>	; 9 <b>9</b>	40 - 68" Standard	17'6" - 17'8 17'8"			59-1/2 26	
75.55 57.55			က် ရှိ သူ ရှိ	მხ	ons Ibs	26. S	7 7 0; 0; .

### Warranty

1st Year - Parts & Limited Labor

2nd Year - Parts

### NOTE T

call for hardened bolts, they are identified with three lines or marks on the head Determine right or left side of Bi-Fold Hake by viewing it from the rear. If instructions or parts lists

# MANUFACTURING CO. INC.

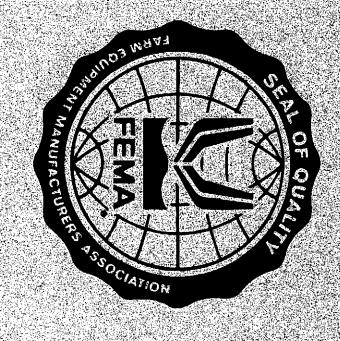
P.O. Box 768 - Telephone (715) 387-3414 FAX (715) 384-5463 MARSHFIELD, WI 54449



H&S WAREHOUSE Rt. #5 and 76 P.O. Box 1260 - Telephone (716) 736-7595 FAX (716) 736-7596 RIPLEY, NY 14775

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### products approved for the