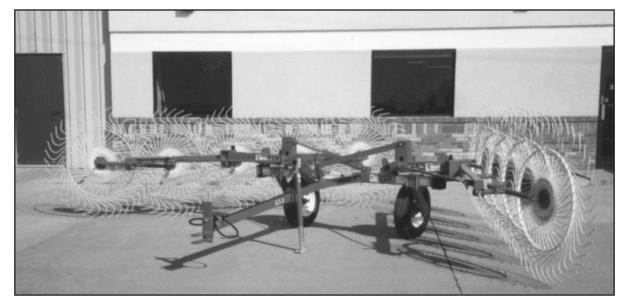
H&S V-RAKES V-8 V-10 V-12





READ AND UNDERSTAND THIS MANUAL BEFORE OPERATING THIS EQUIPMENT.

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

OPERATOR'S MANUAL and PARTS LIST

10-4-2008

Manufactured By

H&S MANUFACTURING CO., INC.

P.O. BOX 768 • (715) 387-3414 FAX (715) 384-5463 MARSHFIELD, WISCONSIN 54449

H&S V-RAKES V-8 V-10 V-12 PARTS AND OPERATOR'S MANUAL

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SPECIFICATIONS

	DEALER PRE	H&S - <u>DELIVERY</u> CHECK	LIST
delivering to	S V-Rake has been completely se the customer. The following is a lis adjustments and found the item oper	t of points to inspect. Che	
	All grease fittings have been lubrid	cated	
	See lubrication guide in this manu	ial.	
	All mechanisms are operating trou	uble free.	
	Rake wheels touch ground in unis	on when lowered into rak	ing position.
	(Rake sitting level)		
	All bolts and fasteners are tight.		
	All decals are in place and legible		
	(Dealer's Name)		Model Number
			Serial Number
	(Signature of Pre-Delivery Ins	spector)	(Inspection Date)
		DELIVERY CHECK LIST	
	list that follows is an important remi t the time this V-Rake is delivered.	inder of valuable informat	ion that should be passed on to the
Check off e	ach item as you explain it to the cus	stomer.	
	livery check list, when properly fille satisfactorily performed.	d out and signed assures	s the customer that the pre-delivery
	Explain to the customer that the p	re-delivery inspection was	s made.
	Explain to the customer all the sat	fety precautions they mus	t exercise when operating this unit.
	Explain to customer that regular lu	ubrication is required for p	proper operation and long life of
	machine. Show customer the lubr	ication section of Owner's	s Manual.
	Give the customer Owner's Manua	al and make sure he read	s and understands all operating and
	service instructions.		
	Record Serial Number on Page 1		
	Have customer sign a completed	"Warranty Registration," a	and mail it promptly.
Date Delive	red	Dealer's Name	

(Remove Dealers File Copy At Perforation)

Signature of Original Buyer

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



BE 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 MISPIACED 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.
- DO NOT EXCEED 20 MPH

72203A

STAY CLEAR OF RAKE WHEN RAISING OR LOWERING RAKE WHEELS.

FAILURE TO HEED THIS WARNING MAY RESULT IN PERSONAL INJURY OR DEATH.

KEEP CLOTHING, YOURSELF AND OTHERS WELL CLEAR. 2700A



FAILURE TO HEED THIS WARNING MAY RESULT IN PERSONAL INJURY OR DEATH.

KEEP CLOTHING, YOURSELF AND OTHERS WELL CLEAR. 2700B





INSTALL LOCKING PINS FOR SERVICE OR TRANSPORT.

FAILURE TO HEED THIS WARNING MAY RESULT IN PERSONAL INJURY OR DEATH. 73100B



INSTALL LOCKING PIN FOR SERVICE, TRANSPORT, OR WHEN RAKING WITH ONE SIDE. SEE OPERATOR'S MANUAL.

FAILURE TO HEED THIS WARNING MAY RESULT IN PERSONAL INJURY OR DEATH.

73100C



H&S V-RAKES

WARNING

TO PREVENT SERIOUS INJURY OR DEATH

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

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

IF RAKE ARMS ARE IN THE RAISED POSITION, MAKE SURE TRANSPORT LOCK PINS (10WR4) ARE INSTALLED TO LOCK ARMS UP BEFORE CLEANING, WORKING ON, OR ADJUSTING MACHINE.

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.

Stay clear of hydraulic lines, they may be under extreme pressure or heat.

Stay clear of rake when raising or lowering main rake arm beams.

For transport and storage, always make sure that the transportation lock pins (10WR4) are positioned to lock the rake arms in the up position.

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

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

OPERATION

- 1. Check for proper assembly and adjustment and make sure that all bolts are tightened. Securely retighten after a few hours of operation as bolts can loosen up on new machinery. Check wheel bolts upon delivery and periodically thereafter. Wheel bolts should be tightened at 95 ft./lbs. of torque.
- 2. Check tires and inflate to recommended pressure.
- 3. Attach tractor hitch (13 to 17 inches above ground) and attach rake to tractor with a hitch pin that has a safety locking device.
- 4. Remove weight from lift jack. Rotate jack into storage position
- 5. Connect hydraulic hose for raising and lowering rake arms.
- 6. On all rake wheels, tooth bolts must be torqued to 40 ft./lbs. to help prevent excessive tooth breakage. **Re-torque rake tooth bolts after first 100 acres. (Part No. T175) Check periodically thereafter.**

NOTE: Determine right or left side of your V-Rake by viewing it from the rear. If instructions or parts lists call for hardened bolts, they are identified as Grade 5 by three lines on the head.

ADJUSTMENTS

There are two different positions to adjust the hitch on your new V-Rake. The hitch should be adjusted so the main rake beams are level, or parallel to the ground.





- 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.

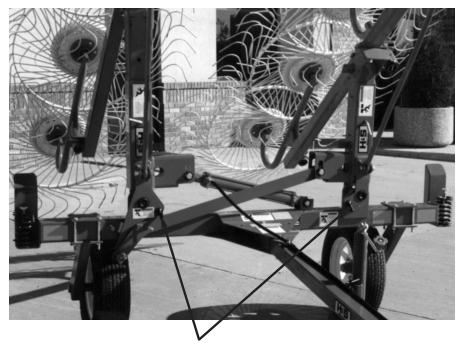


OPERATION (Continued)

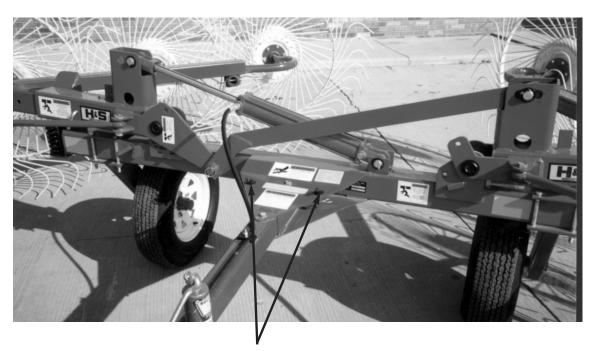
TRANSPORT LOCKS

There are two transport locks on the V-Rake. The transport pins (10WR4) lock the rake beams into the up position for cleaning or working on the rake and for transport and storage. The pins should be in the storage position during operation.





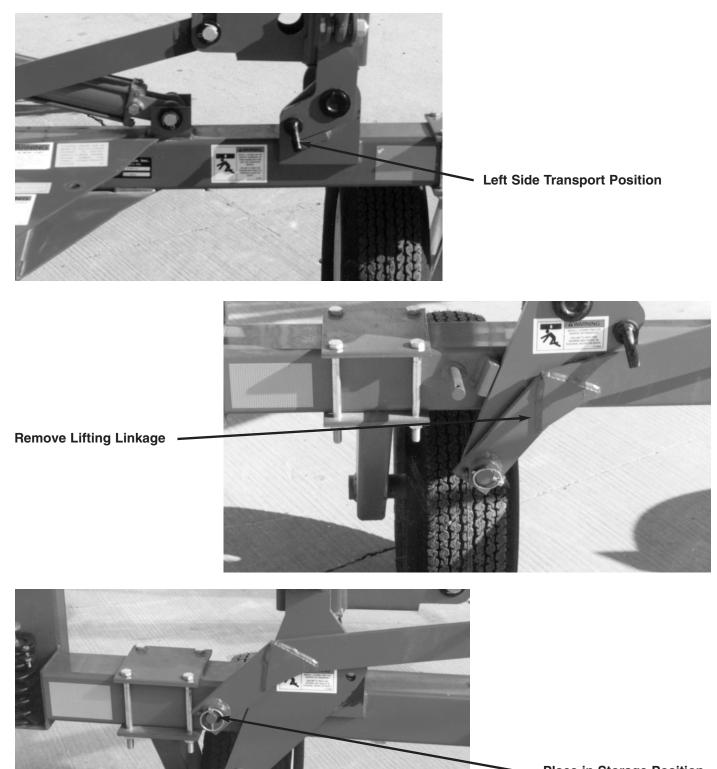
Transport Position



Raking Position

OPERATION (Continued)

Raking with one side can be accomplished by locking the left rake arm in the transport position, disconnecting the lifting linkage (10WR35 or 12WR5), then putting it into the lifting linkage storage position.



Place in Storage Position

ADJUSTMENTS

RAKING WIDTH

There are three rake width adjustments on each rake arm. Width on each side can be set independently. Each rake beam angle can be adjusted independently for multiple raking combinations. Fine tuning is accomplished by adjusting the threaded ball end attached to the linkage arm.



WINDROW WIDTH

Remove locking pin (10WR14). Remove jack from jack storage position. Position jack mount tube on top of rake beam pin (10WR6) with jack foot in position as shown. Windrow width can now be adjusted from 4' to 6', in 6" increments on each side of the rake. After the desired windrow width has been reached, re-insert pin (10WR14) in desired hole. Remove jack, and return to storage position.

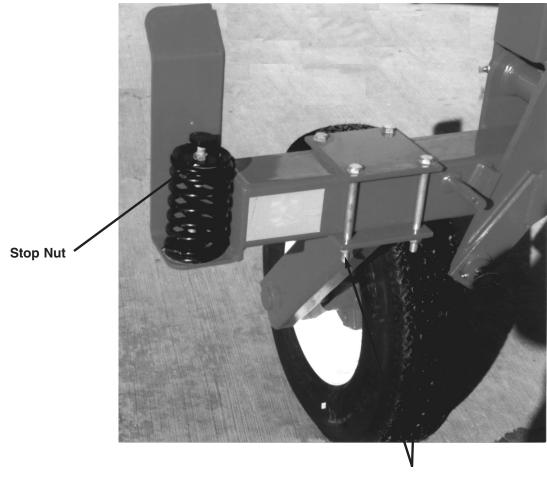


Rake Beam Pin (10WR6)

ADJUSTMENTS (Continued)

DOWN PRESSURE

Down pressure of the rake arms can be adjusted by adjusting the stop on top of the spring located at each end of the main frame. The stop should be adjusted so there is approximately 1/4 of an inch of threads showing above the jam nut. The V-Rake can be adjusted for less ground pressure by "raising" the stop.



Mounting Bolts (16SV77)

TREAD WIDTH ADJUSTMENT (V-12 Only)

Tread width (wheel spacing) can be adjusted by first jacking up one side of the main frame. Loosen nuts (4) on the mounting bolts (16SV77). The entire wheel assembly now can be positioned as desired. Re-tighten nuts evenly. Repeat procedure on the opposite of the main frame.

ADJUSTMENTS (Continued)

FLOTATION

The V-Rake has been designed to be operated with the hydraulic cylinder in the float position. This allows the rake beam to "float" up and down without the hydraulic cylinder restricting it's motion. If your tractor does not have a float position, you will need the second hose option. If rake is equipped with second hose option, it is very important transport lock pins are removed prior to attempting to lower rake arms. Failure to remove pins will result in damage to rake.



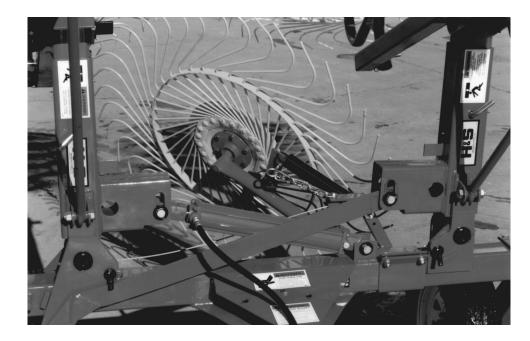
NOTE: If 2 hose system is desired, remove vent plug and install hose (3/8" x 145") (Part #10WR10) between cylinder and tractor.

OPTIONAL CENTER KICKER WHEEL

An optional center kicker wheel is available for the V-Rake. If the hay is laying out flat, the extra wheel allows you to raise the hay laying in the center of the rake out of the stubble for easier pick-up. Attached to the right lifter arm with a cable, the center kicker wheel will raise and lower when the hydraulics are activated. The center kicker wheel may be locked in the up position when not needed.



Down Position



Up Position

LUBRICATION GUIDE

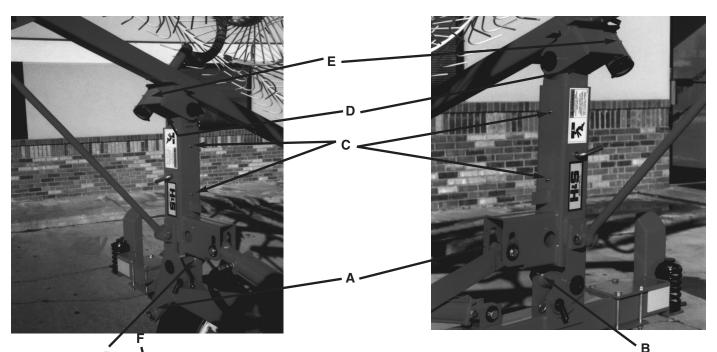
GREASE FITTINGS

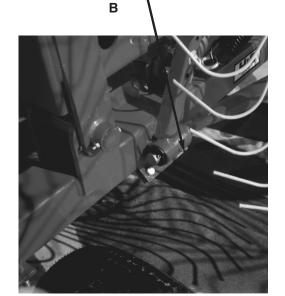
There are numerous grease fittings on your V-Rake. If these are lubricated properly and often enough, it will prolong the life of your V-Rake. Grease daily during normal use and before and after storage. Use a good grade of high quality grease. Wipe off excessive grease to prevent accumulation of chaff or grit around the bearing.

LOCATION

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

- A. (2) one on each end of left side lift linkage
- B. (2) one on each pivot arm pivot point
- C. (4) two on each of the lifter arms
- D. (2) one on each horizontal pivot point at the end of the lifter arms
- E. (2) one on each vertical pivot point, rake arm mount
- F. (1) Center kicker wheel arm (if so equipped)
- G. (4) Rake Arm mount (6 on V-10 & V-12)







DECAL LOCATION

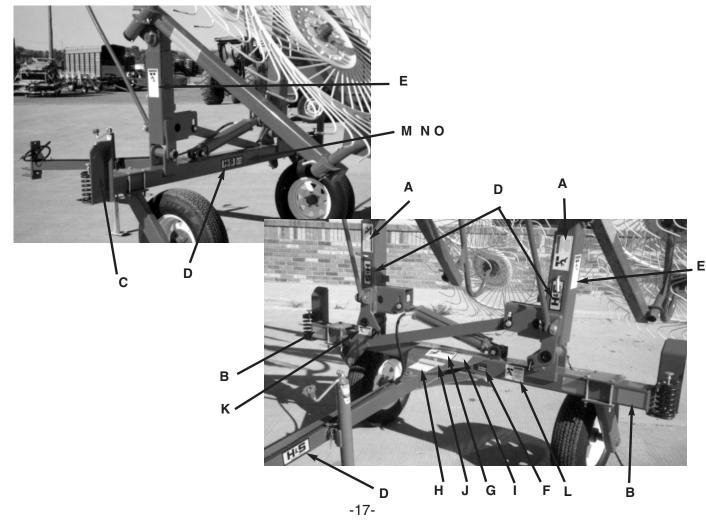
Your H&S V-Rake was manufactured with operator safety in mind. Located on the V-Rake are various decals to aid in operation, and warn of danger or caution areas. Pay close attention to all decals.



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

Listed below are the decals on your V-Rake. These decals may be ordered individually by part number or by ordering a complete set.

ITEM	PART NO.	DESCRIPTION			
Α.	2700A	(2) Warning - Stay Clear of Rak	е		
В.		(2) Amber DecaL (Reflective) (4) on 12 Whee	l Only	
C.		(2) Red Decal (Reflective)		-	
D.	B6	(5) H&S Decal			
E.	2700B	(2) Warning - Stay Clear of Rak	е		
F.		Sérial Number			
G.	11599	Warning - Do Not Go Near Leal	(S		
Н.	72203A	Warning - Help Avoid Injury			
Ι.	H&S	Patent numbers			
J.	73100A	Locking Pin Storage			
K.	73100B	Install Locking Pins			
L.	73100C	Install Locking Pin			
M.	22500A	(3) V-8	Paint - H&S I	Red	
N.	22500B	(3) V-10		ZX21	Gallon
Ο.	2250C	(3) V-12		ZX22	Quart
	122203	Complete Set of Decals		ZX23	Pint



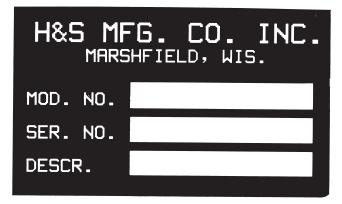
INSTRUCTIONS FOR ORDERING PARTS

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

- 1. Model & Serial Number Both are located on the left front of the main frame of your unit
- 2. All reference to left or right apply to the machine as viewed from the rear.
- 3. Parts should not be ordered from illustration only. Please order by complete part number.
- 4. 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)



PLEASE RECORD NUMBERS FOR YOUR UNIT FOR QUICK REFERENCE

ABOUT IMPROVEMENTS

H&S IS CONTINUALLY STRIVING TO IMPROVE ITS' PRODUCTS.

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 previously sold.

- SERVICE NOTES -

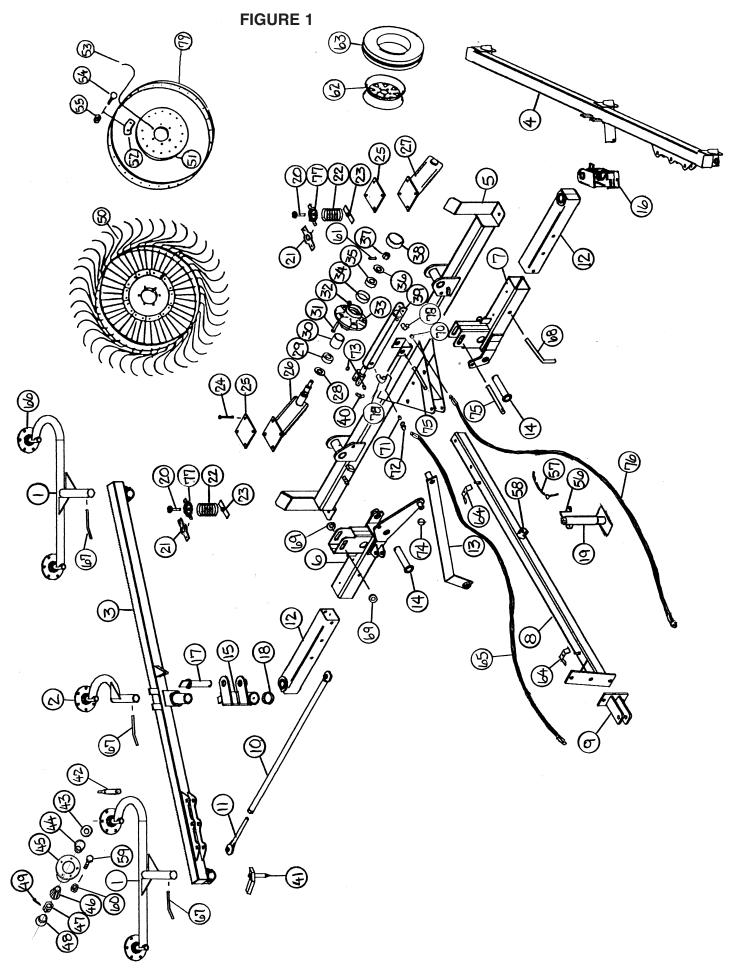


FIGURE 1 H&S V-RAKES

PART NUMBERS / RAKE SIZE					
ITEM	8WR	10WR	12WR	DESCRIPTION	
1.	10WR22	"	"	Rake Arm	
2.	—	10WR23	—	Single Rake Arm	
3.	8WR1	10WR24	12WR2	Right Rake Beam	
4.	8WR2	10WR25	12WR3	Left Rake Beam	
5.	8WR9	10WR26	12WR4	Main Frame	
6.	8WR7	10WR27	"	Right Lifter Arm	
7.	8WR6	10WR28	"	Left Pivot Arm Housing	
8.	10WR29	"	"	Pole	
9.	10WR30	"	"	Hitch	
10.	8WR8	10WR31	"	Link Rod	
11.	10WR9	"	"	Adjusting Rod	
12.	8WR5	10WR34	"	Slide Arm	
13.	10WR35	"	12WR5	Lifting Linkage	
14.	10WR7	"	"	Rake Arm Pins	
15.	10WR36	"	"	Right Pivot Bracket	
16.	10WR37	"	"	Left Pivot Bracket	
17.	10WR6	"	"	Rake Beam Pin	
18.	10WR8	"	"	Pivot Thrust Washer	
19.	BFR223	"	"	Jack	
20.	10WR16	"	"	Spring Adjustment	
21.	10WR46	"	"	Spring Bottom	
22.	10WR47	"	12WR1	Spring	
23.	10WR3	"	"	Spring Clamp	
24.	16SV77	"	"	Bolt 1/2" x 6" GR.5	
25.	_	—	10WR38	Axle Plate	
26.	10WR32	"	"	Right Axle	
27.	10WR33	"	"	Left Axle	
28.	CAT5	"	"	Seal	
29.	CAT6	"	"	Inner Bearing	
30.	CAT7	"	"	Inner Race	
31.	CAT128A	"	"	Hub Stud	
32.	CAT14	"	"	Hub Nut	
33.	10WR49	"	"	Ground Wheel Hub	
34.	CAT9	"	"	Outer Race	
35.	CAT10	"	"	Outer Bearing	
36.	BFR63	"	"	Washer	
37.	T35	"	"	Nut	
38.	CAT13	"	"	Hub Cap	
39.	10WR11A	"	"	Cylinder 2-1/2" x 16"	
40.	10WR4	"	"	Transport Pins	
41.	10WR5	"	"	Slide Lock Pin	
42.	BFR36	"	"	Spindle	
43.	T163	"	"	Seal	
			01		

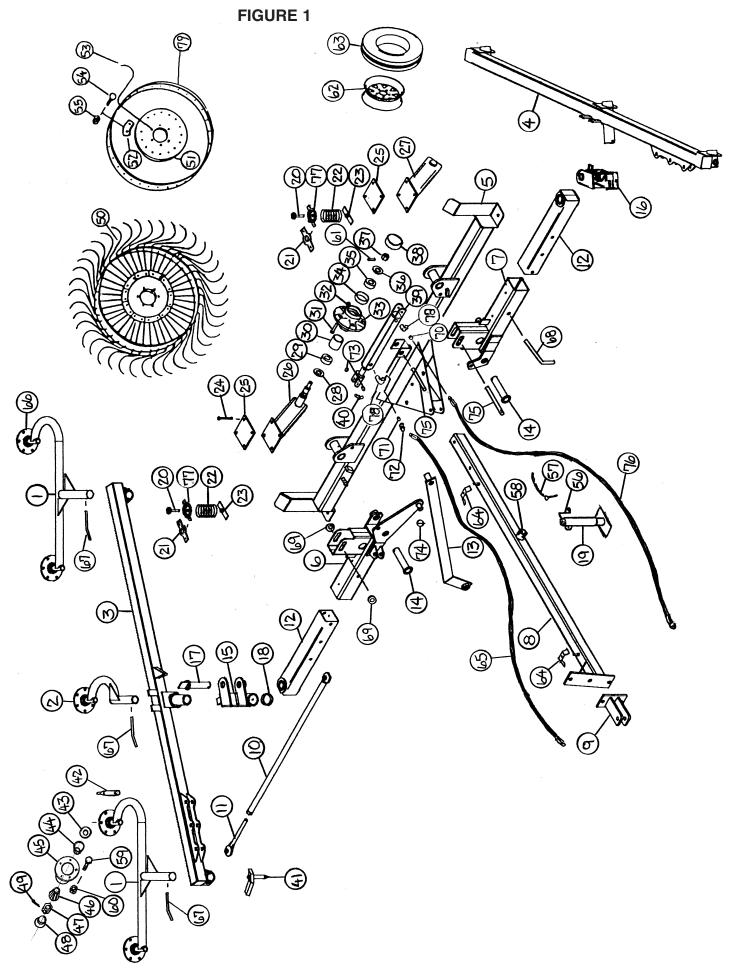


FIGURE 1 **H&S V-RAKES**

PART NUMBERS / RAKE SIZE					
ITEM	8WR	10WR	12WR	DESCRIPTION	
44.	T164	"	"	Inner Bearing	
*	T165	"	"	Inner Race	
45.	BFR32	"	"	Rake Wheel Hub	
46.	T170	"	"	Outer Bearing	
*	T171	"	"	Outer Race	
47.	T172	"	"	Nut	
48.	T173	"	"	Hub Cap	
49.	T169	"	"	Cotter Pin	
50.	BFR31	"	"	RH Rake Wheel	
*	T174	"	"	LH Rake Wheel	
51.	T179	"	"	Rake Wheel Center	
52.	T178	"	"	Rake Tooth Clip	
53.	T176	"	"	Rake Wheel Tooth	
54.	T175	"	"	10MM x 25MM Carriage Bolt	
55.	T166	"	"	10MM Nut	
56.	BFR3	"	"	Jack Handle	
57.	BFR4	"	"	Jack Pin & Chain	
58.	12N14	"	"	Jack Mount	
59.	T168	"	"	10MM x 25MM Bolt	
60.	T166	"	"	10MM Nut	
61.	T37	"	"	Cotter Pin	
62.	CAT195	"	"	Wheel 13 x 4.5	
63.	CAT198	"	"	Tire ST175 x 80D13	
64.	23N67	"	"	Hose Holder	
65.	10WR10	"	"	Hose 3/8" x 145"	
66.	BFR76	"	"	Hub - Complete	
67.	10WR13	"	"	Pin 3"	
68.	10WR14	"	"	Pin 5"	
69.	16SV136	"	"	Washer	
70.	BFR70	"	"	Vent Plug	
70.	BFR120	"	"	Orifice	
71.	BFR120	"	"	Male Adapter Union	
۲ <i>۲</i> . *	BFR617	"	"	•	
70		"	"	Adapter Union & Orifice	
73.	BFR33	"	"	Washer	
74.	F56	"	"	Lynch Pin	
75.	LW55	"	"	Pin Ostina Ustalan	
77.	10WR15			Spring Holder	
			"		
76.	10WR10			Hose 3/8" X 145"	
78.			23N234	90° Street Elbow	
79.	T177		<i>"</i>	Outer Ring	
	0 Vent Plug Not Use	ed on Double Act	ing Cylinder		
NOTE * (Means Not Shown)				

NOTE: * (Means Not Shown)

(Means Not Used on This Model) (Means Same Part No. as Preceding Model)

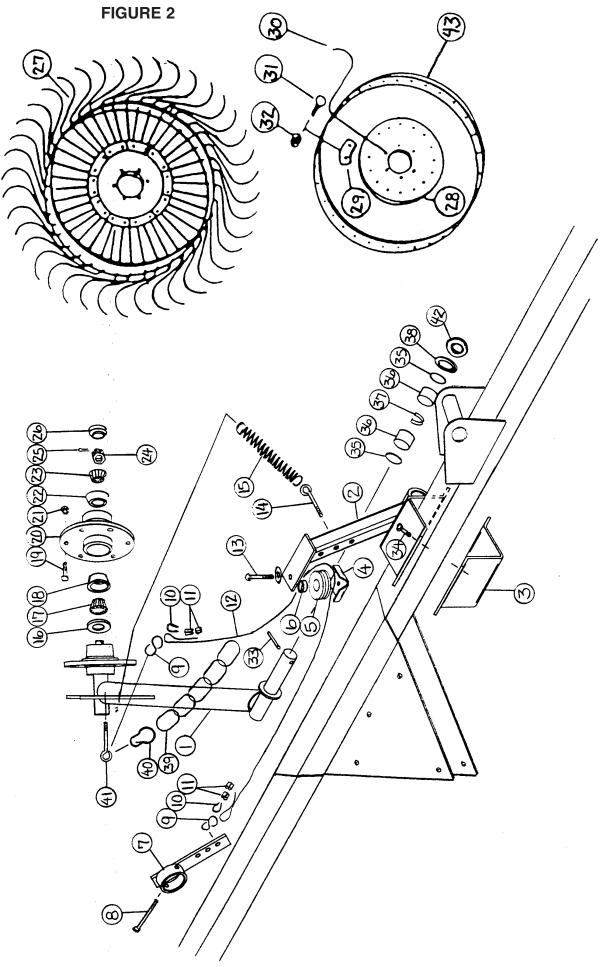


FIGURE 2 H&S V-RAKES OPTIONAL KICKER WHEEL

ITEM	10WR	12WR	DESCRIPTION
1.	10WR41	"	Kicker Arm
2.	10WR39	"	Mounting Bracket Top
3.	10WR20	"	Mount
4.	10WR19	"	Pulley Mount
5.	BFR292	"	Poly Pulley
6.	ST81	"	Spacer
7.	10WR40	"	Pivot Mount
8.	10WR18	"	Bolt 5/16" x 3" GR.5
9.	F87	"	"S" Hook
10.	ES14	"	Cable Protector
11.	ES5	"	Crimp On Clamp
12.	12WR6	"	Cable (57")
13.	T19	"	Bolt 3/8" x 2" GR.5
14.	ES10	"	I-Bolt (5/16" x 4" Overall)
15.	BFR110	"	Spring
16.	T163	"	Seal
17.	T164	"	Inner Bearing
18.	T165	"	Inner Race
19.	T168	"	Hub Bolt
20.	BFR32	"	Hub
21.	T166	"	Hub Nut
22.	T171	"	Outer Race
23.	T170	"	Outer Bearing
24.	T172	"	Nut
25.	T169	"	Cotter Pin
26.	T173	"	Hub Cap
27.	10WR17	"	48" Kicker Wheel
28.	T179	"	Rake Wheel Center
29.	T178	"	Rake Tooth Clip
30.	10WR42	"	Rake Wheel Tooth
31.	T168	"	Bolt 10MM x 25MM
32.	T166	"	10MM Lock Nut
33.	3G22	"	Roll Pin
34.	12V45	"	Bolt 1/2" x 1-1/2" GR.5
35.	S99	"	"O" Ring
36.	G16	"	Bronze Bushing
37.	BFR230	"	Bearing Spacer
38.	BFR221	"	Poly Washer
39.	10WR44	"	Chain - 5 Links
40.	BFR295	"	Snap Hook
41.	10WR43	"	3/8" x 1" I-Bolt
42.	BFR229	"	Washer
43.	T177	"	Outer Ring

NOTE "(Means Same Part No. as Preceding Model)

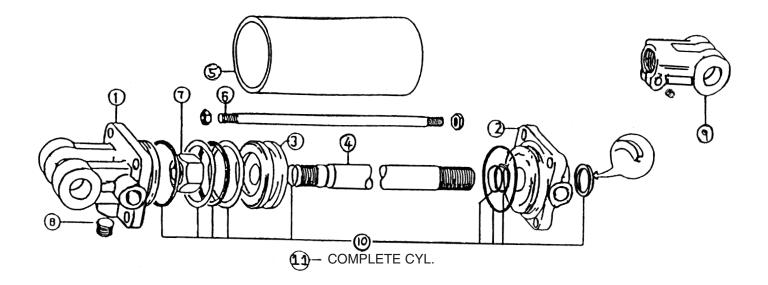


FIGURE 3 H&S V-RAKES

PART NUMBERS / RAKE SIZE				
ITEM	8WR	10WR	12WR	DESCRIPTION
1.	T181A	"	"	Clevis Cap
2.	T182A	"	"	Rod Cap
3.	T183	"	"	Piston
4.	23N145A	"	"	Rod
5.	10WR45	"	"	Cylinder Tube
6.	23N147	"	"	Tie Rod
7.	23N148	"	"	Piston Nut
8.	23N149	"	"	Plug
9.	23N150A	"	"	Rod Clevis
10.	T187	"	"	Seal Kit
11.	10WR11A	"	"	Complete Hydraulic Cylinder

NOTE: " (Means Same Part No. as Preceding Model)

H&S V-RAKES

Your new H&S V-Rake has been manufactured of the finest quality materials and components. The 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 assume that you know how to operate and maintain your V-Rake before reading this manual carefully. Keep this manual available for ready reference.

H&S V-RAKE SPECIFICATIONS

	H&S V-8	H&S V-10	H&S V-12
Wheel Diameter	55"	. 55"	55"
Teeth Per Wheel	40	. 40	40
Tooth Diameter	7mm	.7mm	7mm
Transport Width	9'6"	. 9'6"	10'6"
Transport Length	13'	. 15'6"	18'
Windrow Width Adjustment	4'-6'	. 4'-6'	4'-6'
Raking Width	16'-20'	. 18'-22'	20'-24'
	3 settings	. 3 settings	3 settings
Raking Wheel Hubs	Tapered Bearings	. Tapered Bearings .	Tapered Bearings
Wing Flex	Limited	. Limited	Limited
Number of Transport Wheels	2	.2	2
Hitch Jack	Standard	. Standard	Standard
Center Kicker Wheel		Optional	Optional
Number of Rake Wheels	8	. 10	12
Transport Wheels	ST175/80D13	.ST175/80D13	ST175/80D13
Weight		. 1275 lbs	1440 lbs.

NOTE

Determine right or left side of V-Rake by viewing it from the rear. If instructions or parts lists call for hardened bolts, they are identified as Grade 5 by three lines on the head.

H&S MANUFACTURING CO. INC.

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