

Ezee-On

OPERATOR'S MANUAL

MODEL 500 MOUNTED PACKER/HARROW

**INCLUDES
ASSEMBLY INSTRUCTIONS
AND
PARTS LIST**

**Manufactured
by**

Ezee-On Mfg.

**Vegreville, Alberta
Ltd. Canada**

Printed in Canada

653D

WARRANTY

EZEE-ON WARRANTY FOR AGRICULTURAL PRODUCTS

EZEE-ON warrants each item of new EZEE-ON equipment sold by it to be free from defects in material and workmanship under recommended agricultural use. This warranty is void if equipment is used for other than agricultural purposes. The sole obligation of EZEE-ON under this warranty is limited to the repair or replacement of those part(s) (F.O.B. EZEE-ON Factory) of the equipment which EZEE-ON in its sole discretion, determines to have failed as a result of defects in material or workmanship occurring prior to the expiration of one year ("Warranty Period") from delivery by EZEE-ON or its selling dealer ("Dealer") to the original purchaser ("Purchaser"). Such defective part(s) will, at the option of EZEE-ON, be either repaired or replaced only to the Purchaser and must be effected by the selling Dealer.

The Purchaser must, within the Warranty Period, give written notice to the Dealer, from whom the equipment was purchased, of any claimed defect. The Dealer will have a reasonable time under the circumstances then existing, to repair or replace defective part(s). This warranty shall not cover damage to any other part(s) of the equipment caused as a result of delay by the Purchaser to repair or replace defective part(s). EZEE-ON's LIABILITY UNDER THIS WARRANTY SHALL BE LIMITED TO, AND IN NO CASE BE GREATER THAN, THE COST OF THE REPAIR OR REPLACEMENT OF THE PART(S) COVERED. THIS WARRANTY SHALL SPECIFICALLY EXCLUDE ANY OTHER COSTS, INCLUDING BUT NOT LIMITED TO, LOSS AND/OR DAMAGE TO CROPS, LOSS OF USE, LOSS OF PROFIT, REVENUE OR OTHER COMMERCIAL LOSSES, INCONVENIENCE OR COST OF RENTAL OR REPLACEMENT EQUIPMENT, TRANSPORTATION MPENSE TO AND FROM DEALER'S PREMISES, SERVICE CALLS, NORMAL MAINTENANCE AND UPKEEP COSTS, OVERTIME LABOUR COSTS AND ANY AND ALL INJLIRIES, CLAIMS OR SPECIAL INDIRECT OR CONSEQUENTIAL DAMAGE OR OTHER ECONOMIC LOSS. THE FOLLOWING ITEMS ARE SPECIFICALLY EXCLUDED FROM WARRANTY:

ALL PRODUCTS -	RUBBER TIRES AND TUBES, EXCLUSIVE OF PACKER WHEEL TIRES WHICH ARE WARRANTED DIRECTLY BY AGENTS OF THE TIREMANUFACTURERS.
CULTIVATORS/CHISEL PLOWS- AND AIR DRILLS	BENT SHANKS AND ALL GROUND ENGAGING TOOLS.
AIR SEEDERS -	TANK PAINT IF DAMAGE IS CAUSED BY CHEMICAL AGENTS.
DISCS -	DISC BLADES.
FRONT END LOADERS -	BUCKET TEETH AND GRAPPLE TEETH. MODIFICATIONS TO LOADER MOUNTS TO ADAPT TO CHANGES MADE BY TRACTOR MANUFACTURER IN TRACTOR DESIGN.
POST DRIVERS -	ENGINE & ENGINE PARTS WHICH ARE WARRANTED DIRECTLY BY AGENTS OF THE ENGINE MANUFACTURER.

This warranty applies only to new equipment, manufactured by EZEE-ON. This warranty does not cover damage caused to or by any equipment, accessories or part(s) attached to or utilized in conjunction with EZEE-ON equipment. This warranty does not cover damage caused as a result of attachment, modification and incorrect assembly or pre-delivery.

This warranty constitutes the only warranty and is in lieu of any other warranty expressed or implied. There is no warranty of merchantability or of fitness for a particular purpose. No Dealer, salesman or agent has any authority to alter or amend this warranty.

TYPE OF EZEE-ON PRODUCT PURCHASED _____

MODEL NUMBER _____

SERIAL NUMBER _____

This identification should be provided in all correspondence or communication with EZEE-ON regarding your Implement.

INTRODUCTION

Thank you for deciding to purchase Ezee-On. We urge you to familiarize yourself with the operation and maintenance of your implements by reading this manual carefully.

Remember that it is the responsibility of the operator to ensure that the implement is field ready. However, should you encounter a problem, please contact your dealer immediately.

This manual contains the following:

- initial setup instructions
- operational (field) instructions
- parts listing for this implement

This manual is made available to you as a handy reference and contains instructions for the setting up and operation of the mounted packer and harrows, along with a complete parts list.

READ THIS BOOK CAREFULLY TO INSURE THAT YOUR NEW CULTIVATOR IS ASSEMBLED AND ADJUSTED CORRECTLY.



RIGHT and LEFT is determined by standing behind the machine and facing FORWARD, in the direction of travel.



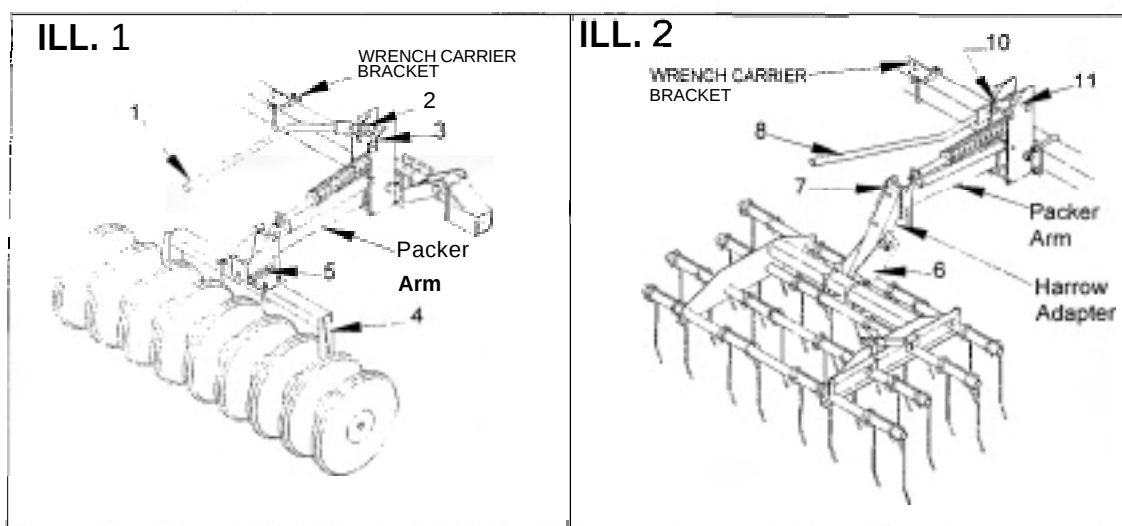
This symbol is used to identify safety messages. When you see this symbol, read the safety message carefully.

EZEE-ON RESERVES THE RIGHT TO MAKE CHANGES IN MODEL OR SPECIFICATIONS WITHOUT ANY OBLIGATION AS TO THE REPLACEMENT OR MODIFICATIONS IN PREVIOUS MACHINES.

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OPERATION



1. MOUNTED PACKER - SEE ILL. 1

Packer wheel pressure can be adjusted to suit field operations. To adjust pressure, remove wrench, arrow 1, from carrier bracket and install it over tension lever, arrow 2, on packer tower. Pull up or down on wrench to release pressure on pin, arrow 3, then remove this pin. To increase pressure push up on wrench as required. To decrease pressure pull down on wrench as required. When a hole has been selected to give desired pressure, install pin, arrow 3, and secure pin with hair pin.

IMPORTANT: Applying excessive packer wheel pressure may lift rear of tillage implement causing front ground engaging tools to cut deeper than the rear ground engaging tools.

2. EZEE-A-TACH HARROWS - SEE ILL. 1 AND 2.

A) Harrow Installation - Lower cultivator so packer rest on ground. Next remove packer gangs, arrow 4, from packer arm by removing pin, arrow 5, then lift gang assemblies off packer arm. Next, install appropriate harrow assembly, arrow 6, on packer arm. Top pin, arrow 7, of harrow adapter must be placed behind a lug welded to top of packer arm. To lock harrow to packer arm, install pin, arrow 8, in bottom hole of harrow adapter. Be sure pin is installed behind lug welded to bottom of arm. Secure pin with hair pin.

NOTE: Width of harrow assembly (4-1/2' or 6') must be matched to packer gang that was removed earlier. If a 6ft. packer gang assembly was removed from packer arms, install a 6ft. harrow.

B) HARROW HEIGHT ADJUSTMENT - SEE ILL. 2.

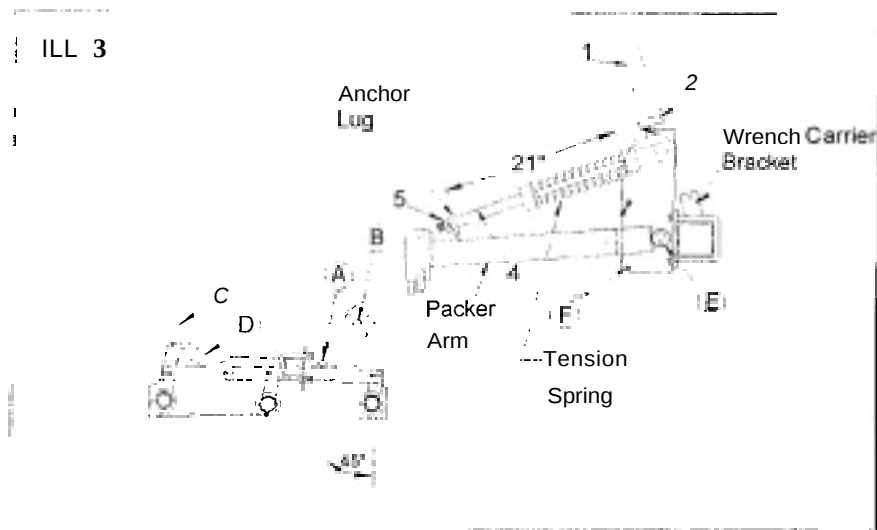
Adjust height of harrow to match height of implement shovels. To adjust harrow height, remove wrench, arrow 9, from carrier bracket and install it over tension lever, arrow 10, on packer tower. Pull up or down on wrench to release pressure on pin, arrow 11, then remove this pin. Next, by moving wrench up or down adjust height of harrow. The bottom of harrow tine should be even with bottom of cultivator shovel. When a hole has been selected to give desired harrow height, install pin, arrow 11, and secure pin with hair pin.



WARNING: USE ADEQUATE MAN POWER OR A HOIST TO LIFT HEAVY COMPONENTS IN PLACE. ATTEMPTING TO LIFT HEAVY COMPONENTS BY YOURSELF COULD RESULT IN SERIOUS INJURY.



CAUTION: WHEN ASSEMBLING PACKER OR HARROWS, USE ALIGNING PUNCH TO LINE UP HOLES. KEEP FINGERS OUT OF HOLES.



C) LEVELLING HARROW - SEE ILL. 3.

Once the tillage implement has been set at desired cutting depth, the harrow section must be levelled to give a smooth uniformly finished field. Levelling is accomplished by loosening bolt (A) then relocating bolt (B) in one of the 6 sets of holes. Tighten bolt (A) and (B) after adjustment.

D) HARROW TINE ADJUSTMENT - SEE ILL. 3.

Harrow tine angle may be adjusted to suit particular field conditions. If very aggressive action is desired, tine angle should be set at the nearest vertical position. If harrow plugging is a problem in fields with large amount of straw, tine angle should be set in a more horizontal position. Tine angle is adjusted by removing pin and relocating the adjustment handle (C) at one of the six holes in link (D).

E) HARROW PRESSURE - SEE ILL. 3.

Once implement depth and tine angle have been set, pressure on the harrow can be adjusted to increase aggressiveness. If harrow plugging is a problem, pressure should be decreased. To adjust harrow pressure remove wrench, arrow 1, from carrier bracket and install it over tension lever, arrow 2, on packer tower. Pull up or down on wrench to release pressure on pin, arrow 3, then remove pin. Next, pull wrench down to decrease harrow pressure or push lever up to increase harrow pressure. When a hole has been selected to give desired harrow pressure, install pin, arrow 3, and secure pin with a hair pin.

MAINTENANCE

1. Check all bolts for tightness after initial use, and periodically thereafter.
2. See ILL. 3. The pivot bolt (E) and tension bolts (F) on arm attaching bracket are meant to be assembled for only a snug fit and should not be over tightened. The carry arm should be free to move up and down in the attaching bracket. The bolts should be snugged-up periodically to reduce carrier arm side play.
3. See ILL. 3. When packer arm is reassembled after repairing, the spring and rod assembly, arrow 4, must be properly adjusted to obtain correct packer arm position. To adjust rod assembly tighten 7/8" nut, arrow 5, until rod assembly is 21" long. This measurement is taken from anchor lug to end of tension spring.



CAUTION: DO NOT WALK ON HARROWS OR PACKER. SERIOUS INJURY COULD OCCUR IF YOU FELL STRIKING SHARP OBJECTS.

PACKER/HARROW ASSEMBLY

1. Find packer gang pattern for your machine further in this booklet. Using measurements shown on pattern, attach each packer arm assembly, arrow 1, (shown in ILL. 4 below) to rear 4" x 4" tube of cultivator using two (2) 5/8" x 4" U-bolts c/w lockwashers and nuts. Depending on the arm type, the mount plate of arm assembly will have either six (6) holes or eight (8) holes. The two U-bolts should be positioned as far apart as possible, however, frame members may not allow outside holes to be used. (Note: Your machine may require a combination of arm types. The gang pattern for your machine will show type of arms required, also, illustrations on page 18 shows the types of arms that are used.) After each arm is properly located, tighten U-bolts.

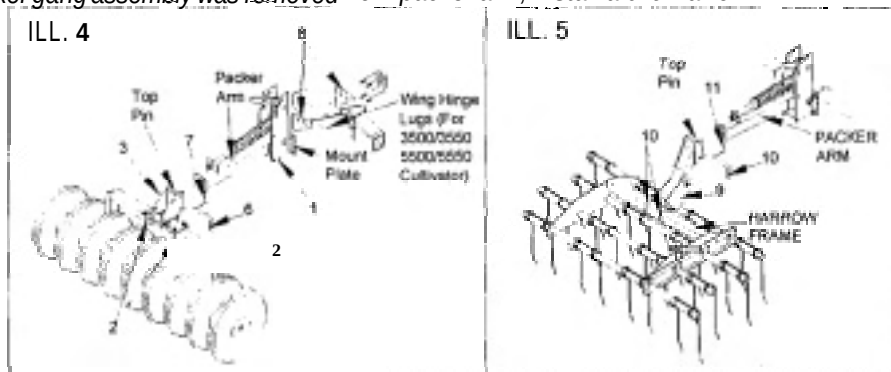
When installing packer arm on Model 7400/7450 Chisel Plow, a special lowering bracket must be used. See 7400/7450 packer gang patterns. First the lowering bracket is fastened to rear of frame with two (2) 5/8" x 4" U-bolts c/w nuts and lockwashers. Do not tighten U-bolts at this time. Next, fasten packer arm assembly to lowering bracket with four (4) 5/8" x 1-3/4" Hex Bolt c/w nuts and lockwashers. When fastening arm to lowering bracket try to use bolt holes that will give the widest bolt spacing. Position packer arm assemblies by moving lowering bracket on cultivator frame and using necessary hole combination to attach arm to lowering bracket. Tighten bolts.

NOTE: See ILL. 1. When installing packer arms on 8" Spacing Model 3500 and 5550 Series cultivators with 40 or 60 shanks, one arm must be installed over hinge lugs of each wing frame. Two (2) special triangle shims, arrow 8, must be placed above wing hinge lugs to make a flat surface for arm and U-bolts to sit on. Use longer U-bolts to fasten arm. The two (2) inside is set of holes of packer arm mount plate must be used. See gang patterns for these two cultivators on pages 6 and 10.

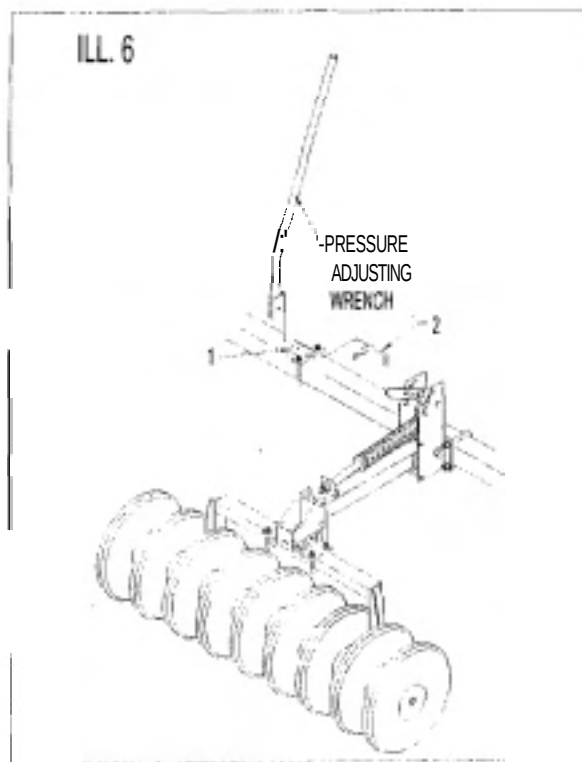
Also note for 76 shank, 8" spacing cultivator, 8" stub extension must be added to rear rank at end of each wing. These stubs are used to mount arms for outer packer sections.

2. Mounted Packer - See ILL. 4.
 - A) Attach quick release assembly, arrow 3, to center of packer frame, arrow 2, using two (2) 1/2" x 3" LI-bolts, arrow 5, c/w nuts and lockwashers. Tighten U-Bolt.
 - B) Attach gang assembly to packer assembly by hooking the top pin of the quick release assembly, arrow 3, over top lip on the packer arm. Install pin, arrow 6, in bottom hole of quick release assembly. This pin should slip behind lower lip of packer arm locking gang to packer arm. Secure pin with hair pin, arrow 7.
 - C) **IMPORTANT:** Be sure each packer wheel lines up with center of shank assembly. If packer wheels are out of line with center of shanks, adjust position at packer arm on frame.
3. Ezee-A-Tach Harrows - See ILL. 5.
 - A) Attach harrow adapter brackets, arrow 9, to center of harrow frame using two (2) 1/2" x 3" U-Bolts, arrow 10, c/w nuts and lockwashers. Tighten U-Bolts.
 - B) Attach harrow adapter bracket, arrow 9, to packer arm by hooking top pin over top lip of packer arm. Install pin, arrow 10, in bottom hole of adapter bracket. This pin should slip behind lower lip of packer arm locking adapter bracket to arm. Secure pin with hair pin, arrow 11.

NOTE: Width of harrow **assembly**(4-1/2' or 6') must be matched to the packer gang that was removed earlier. If a 6 ft. packer gang assembly was removed from packer arm, install a 6 ft. harrow.



ASSEMBLY INSTRUCTIONS CONTINUED:



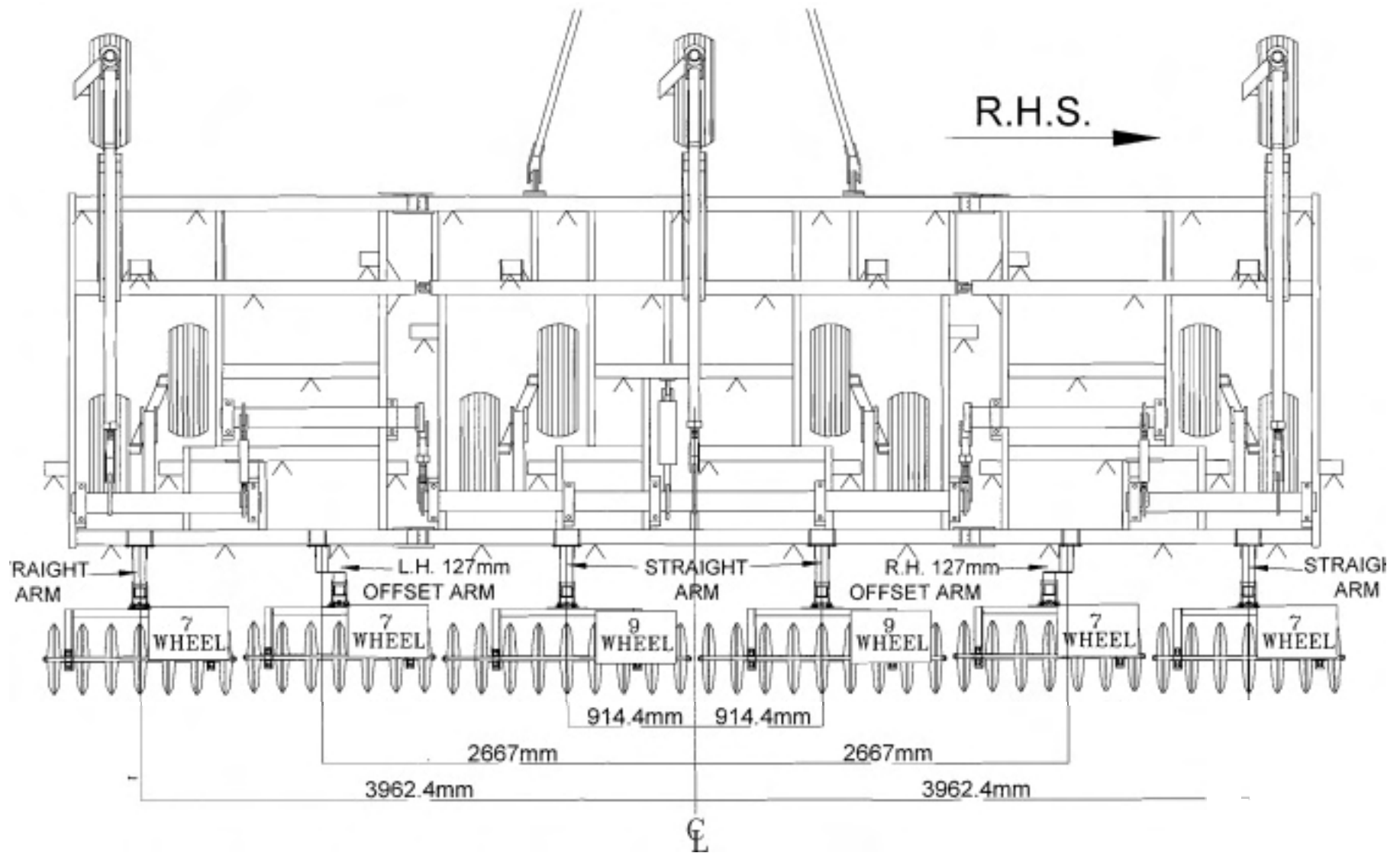
4. MOUNTING WRENCH CARRIER - SEE ILL. 6. (Used to carrier pressure adjustment wrench)

Fasten carrier bracket, arrow 1, to top of rear rank of center frame with one (1) 1/2" x 4" U-bolt c/w nuts and lockwashers. Position brackets so lug points towards rear of cultivator. Tighten U-bolt.

Install pressure adjusting wrench over top lug of carrier bracket, arrow 1. Lock wrench to carrier by installing pin, arrow 2, through hole in wrench. Secure pin with hair pin.

13-1/2' MAIN 8' WING

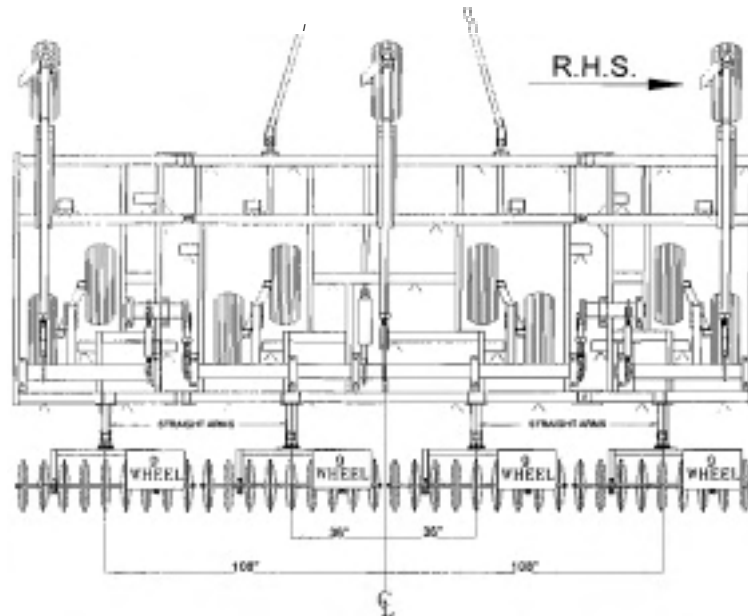
46 SHANK MACHINE - 8" SPACING



MODEL 3500 - 3550 - 5500 - 5550 CULTIVATORS

13-1/2' MAIN 6' WING 36 SHANK MACHINE - 8" SPACING

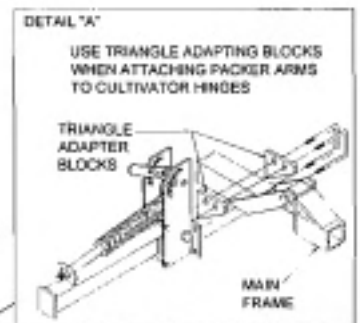
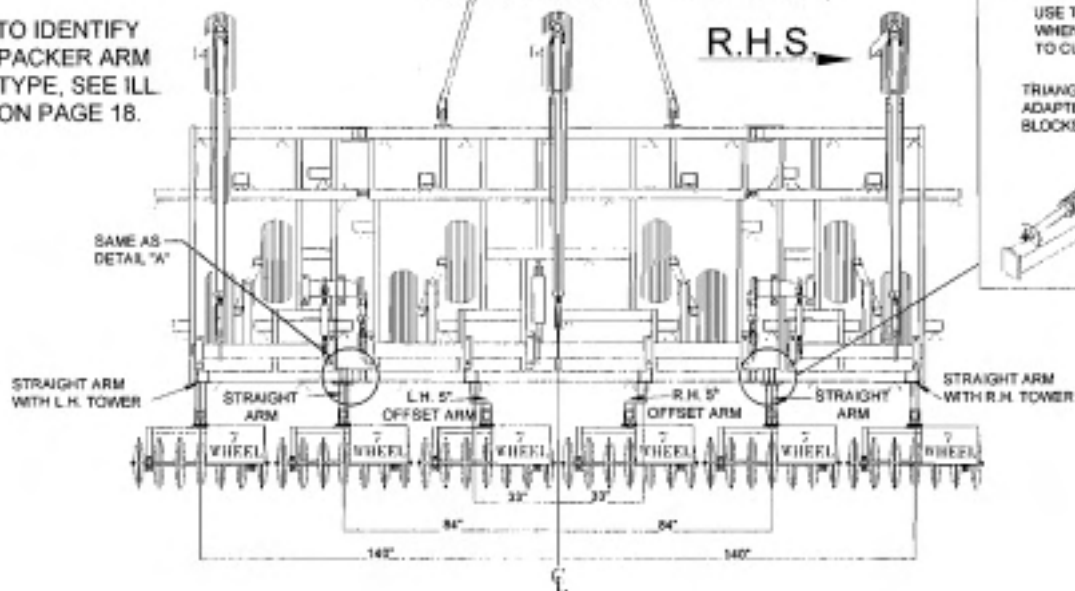
NOTE: TO IDENTIFY
PACKER ARM
TYPE, SEE ILL
ON PAGE 18.



MODEL 3500 - 3550 - 5500 - 5550 CULTIVATORS

13-1/2' MAIN 6' WING 40 SHANK MACHINE - 8" SPACING

NOTE: TO IDENTIFY
PACKER ARM
TYPE, SEE ILL
ON PAGE 18.

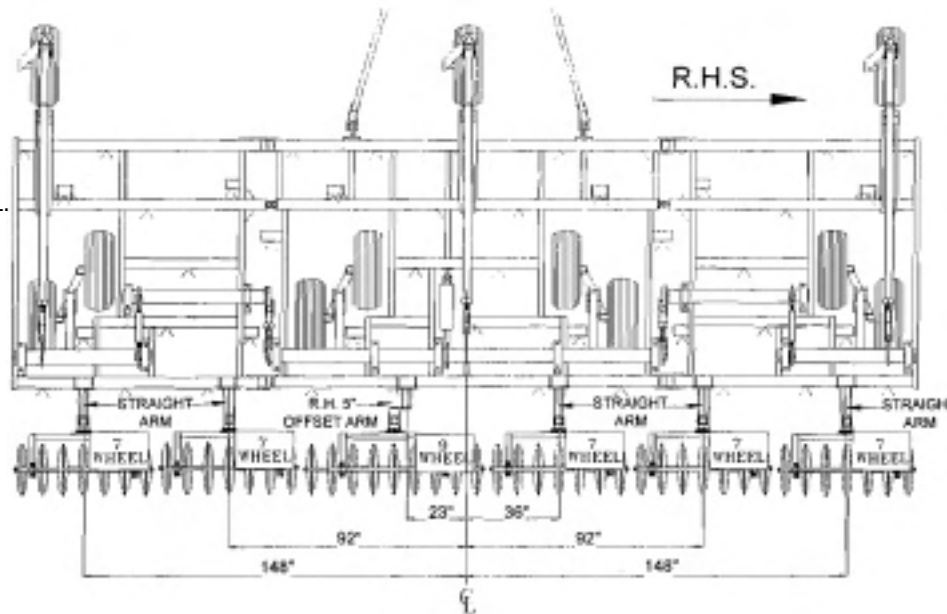


Note: This machine has one extra packer wheel on the outside of each wheel.

MODEL 3500 - 3550 - 5500 - 5550 CULTIVATORS

13-1/2' MAIN 8' WING
44 SHANK MACHINE - 8" SPACING

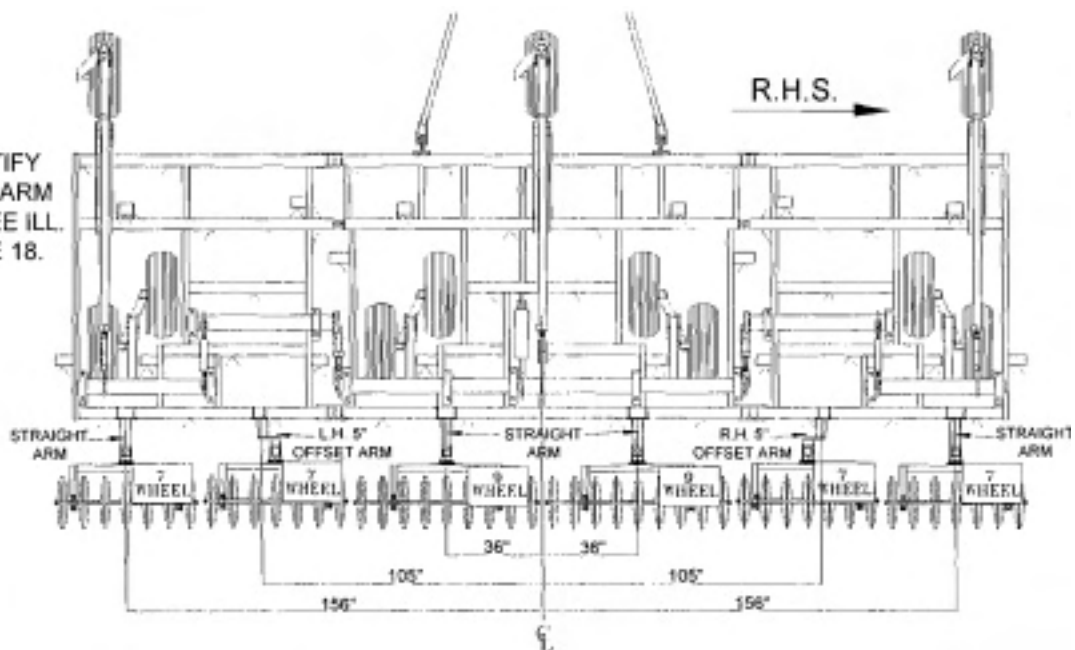
NOTE: TO IDENTIFY
PACKER ARM
TYPE, SEE ILL.
ON PAGE 18.



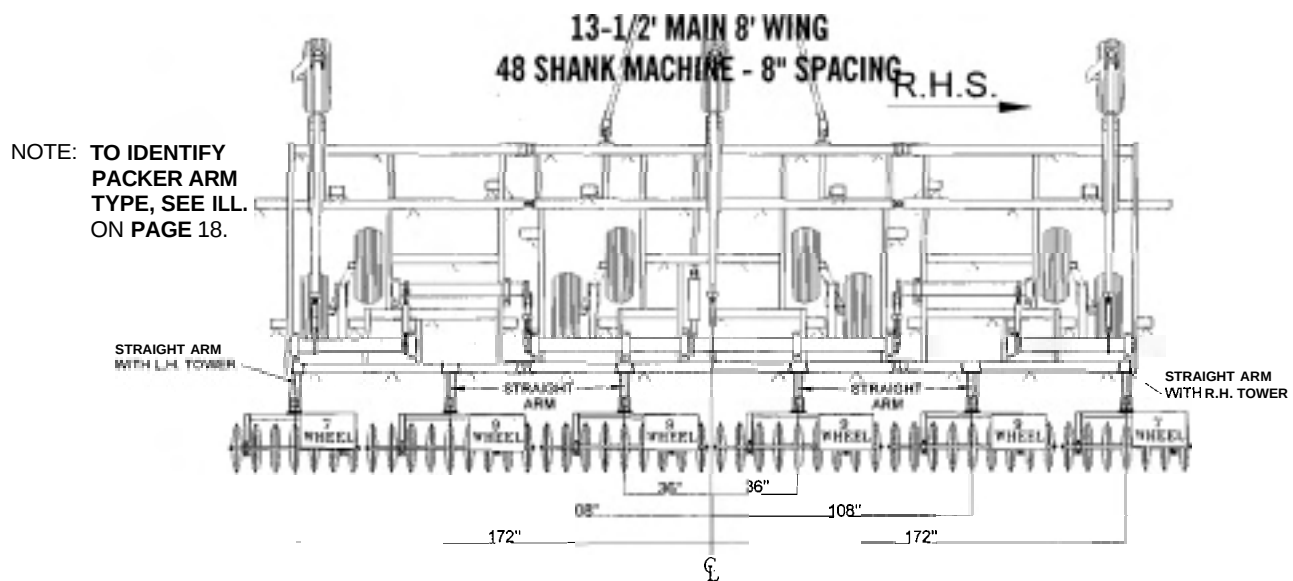
MODEL 3500 - 3550 - 5500 - 5550 CULTIVATORS

13-1/2' MAIN 8' WING
46 SHANK MACHINE - 8" SPACING

NOTE: TO IDENTIFY
PACKER ARM
TYPE, SEE ILL.
ON PAGE 18.

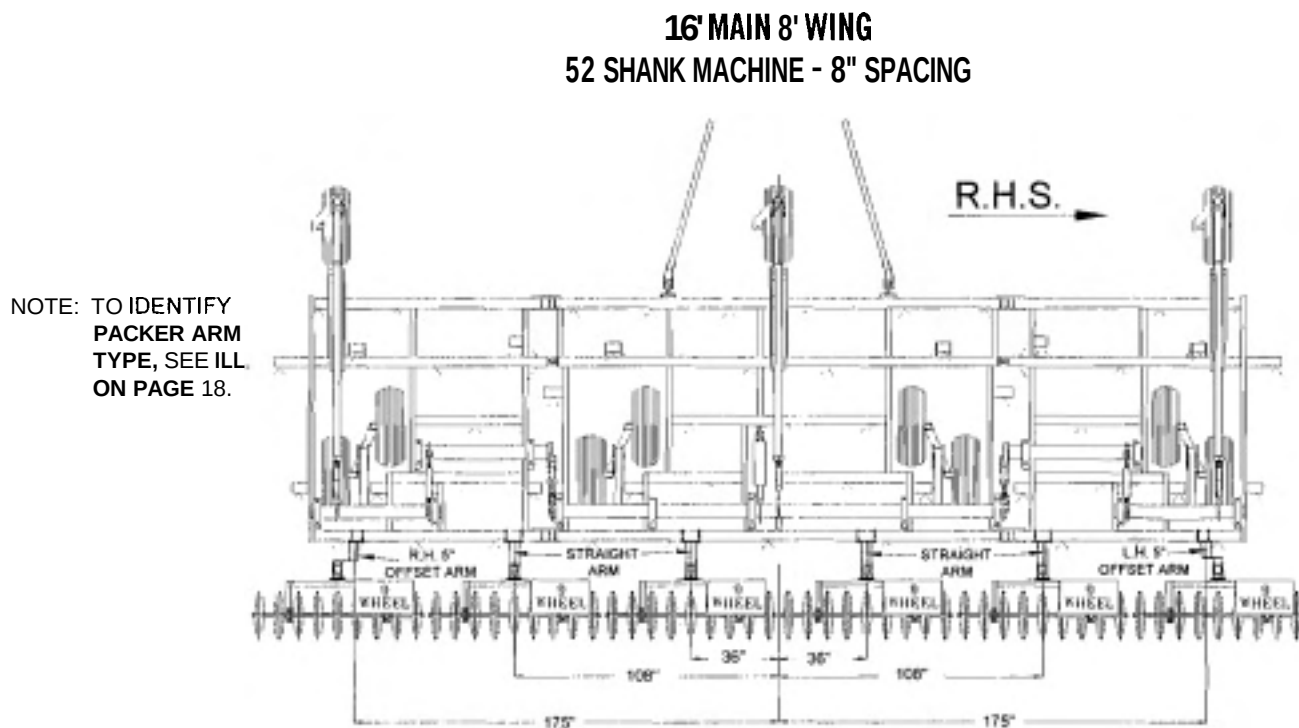


MODEL 3500 - 3500 - 5500 - 5550 CULTIVATORS



Note: This unit has one extra packer wheel on the outside of each wheel.

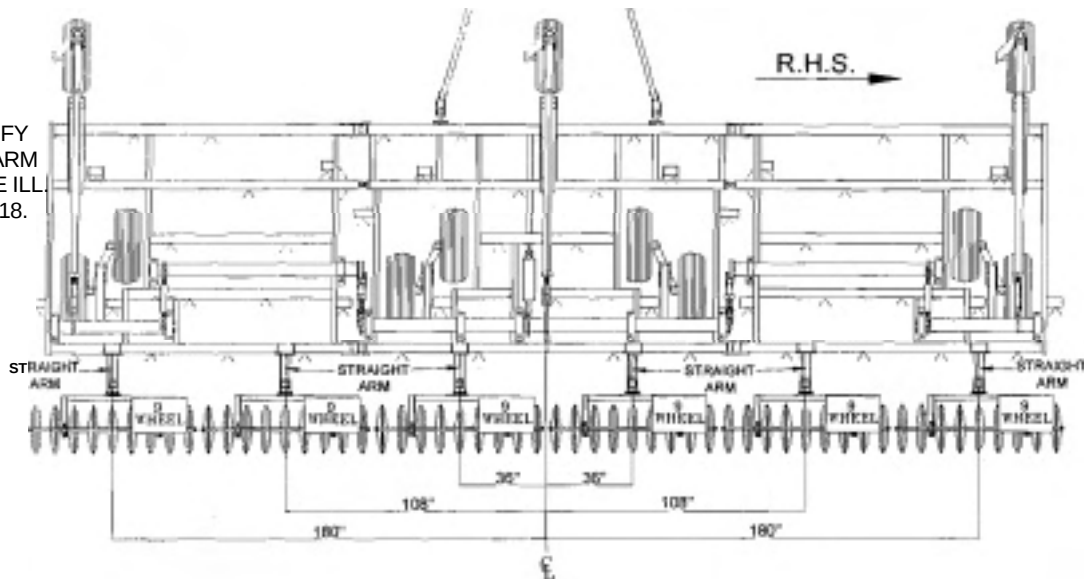
MODEL 3500 - 3550 - 5500 - 5550 CULTIVATORS



MODEL 3500 - 3550 - 5500 - 5550 CULTIVATORS

13-1/2' MAIN 10' WING
54 SHANK MACHINE - 8" SPACING

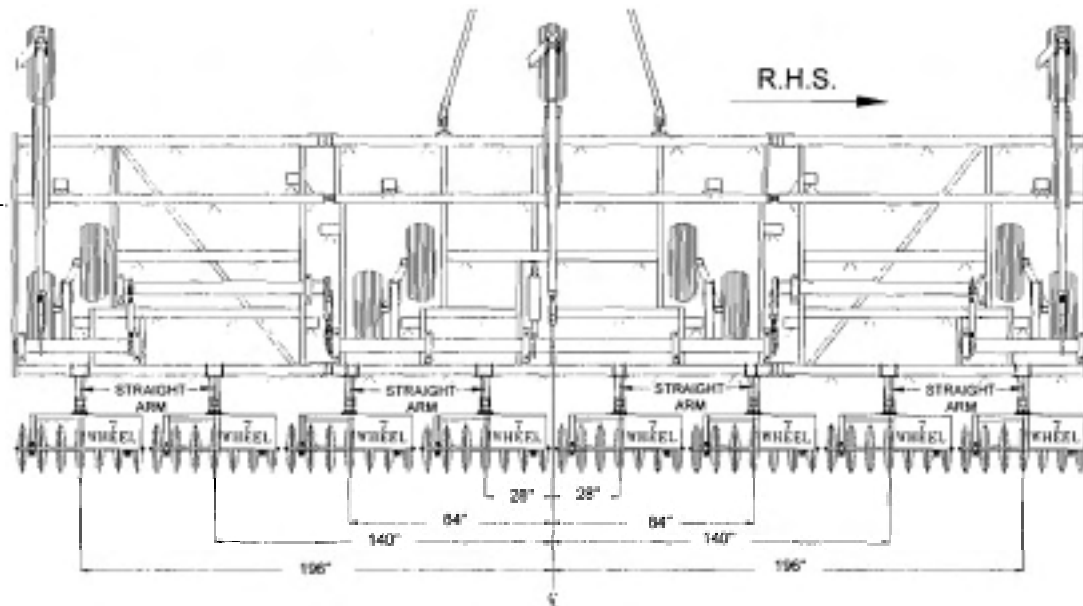
NOTE: TO IDENTIFY
PACKER ARM
TYPE. SEE ILL.
ON PAGE 18.



MODEL 3500 - 3550 - 5500 - 5550 CULTIVATORS

16' MAIN 10' WING
56 SHANK MACHINE - 8" SPACING

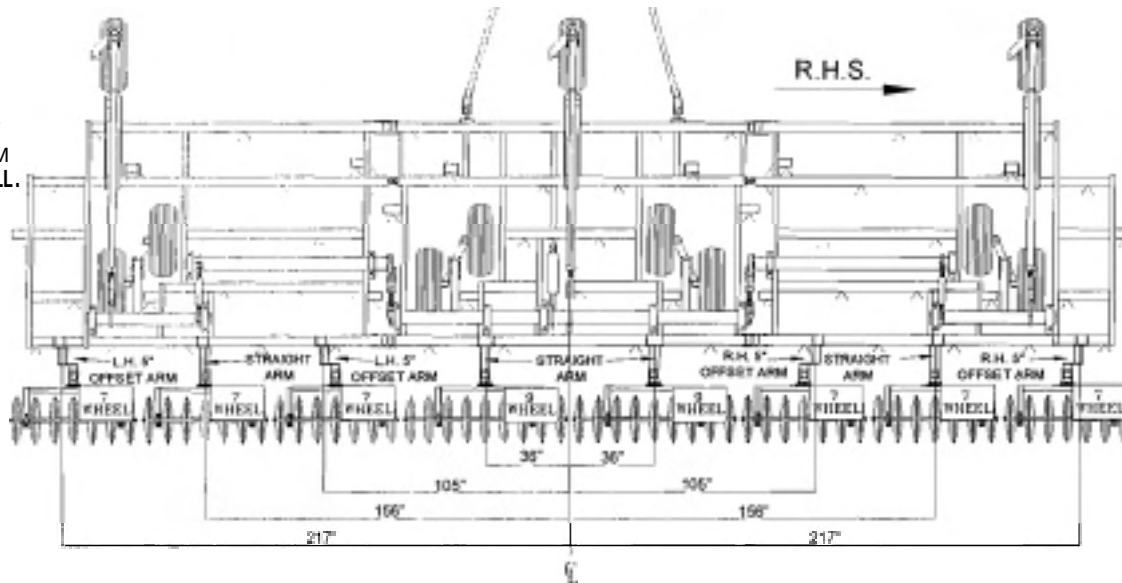
NOTE: TO IDENTIFY
PACKER ARM
TYPE. SEE ILL.
ON PAGE 18.



MODEL 3500 - 3550 - 5500 - 5550 CULTIVATORS

13-1/2' MAIN 10' WING
60 SHANK MACHINE - 8" SPACING

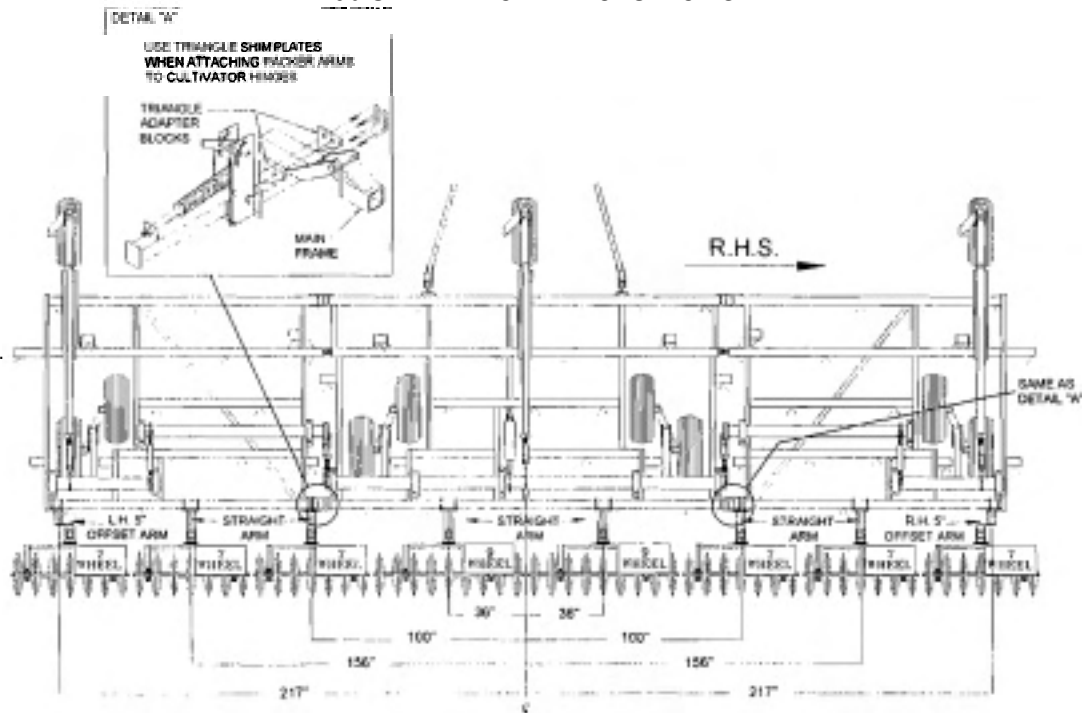
NOTE: TO IDENTIFY
PACKER ARM
TYPE. SEE ILL.
ON PAGE 18.



MODEL 3500 - 3550 - 5500 - 5550 CULTIVATORS

16' MAIN 10' WING
60 SHANK MACHINE - 8" SPACING

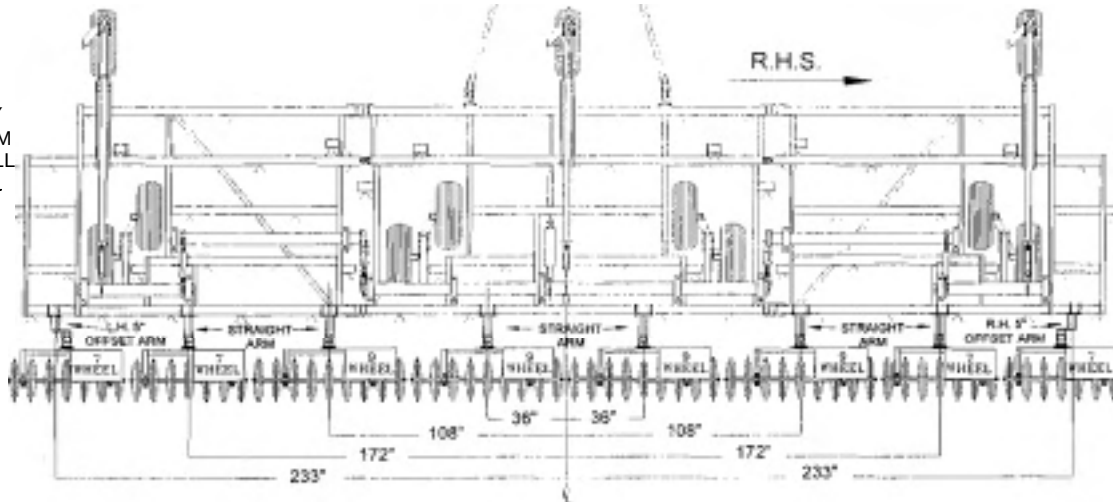
NOTE: TO IDENTIFY
PACKER ARM
TYPE. SEE ILL.
ON PAGE 18.



MODEL 3500 - 3550 - 5500 - 5550 CULTIVATORS

16' MAIN 10' WING
64 SHANK MACHINE - 8" SPACING

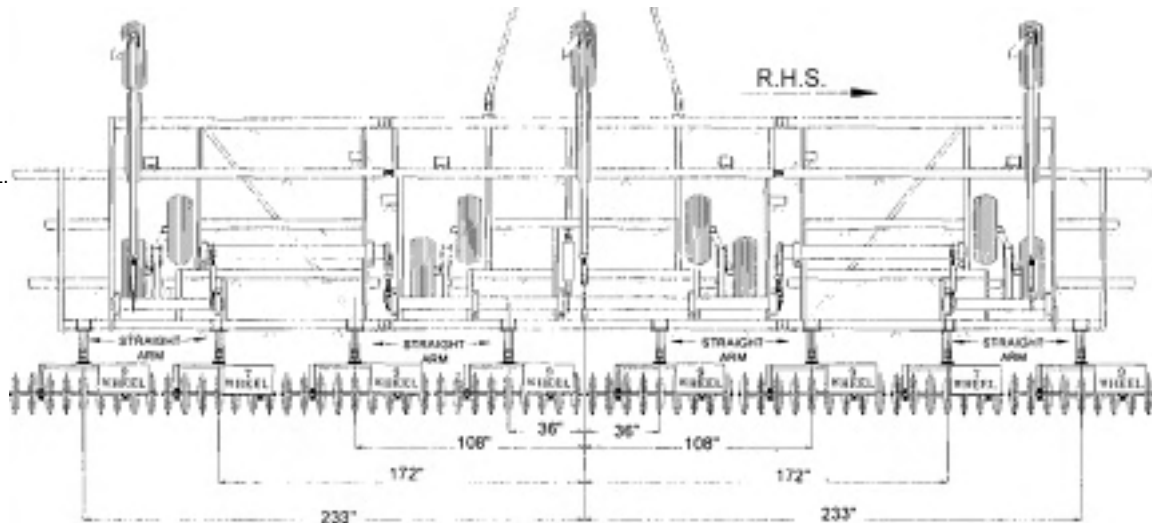
NOTE: TO IDENTIFY
PACKER ARM
TYPE, SEE ILL.
ON PAGE 18.



MODEL 3500 - 3550 - 5500 - 5550 CULTIVATORS

16' MAIN 10' WING
68 SHANK MACHINE - 8" SPACING

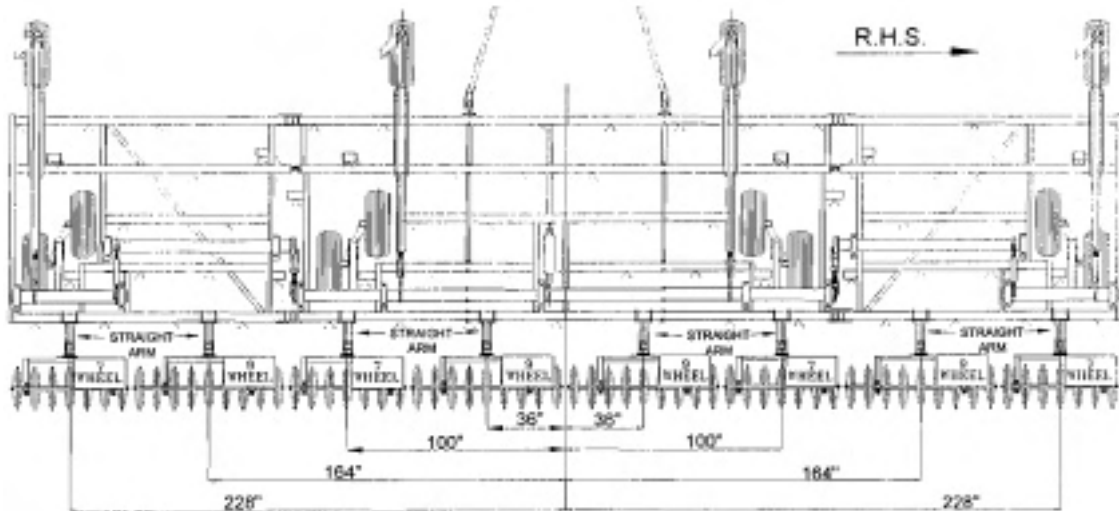
NOTE: TO IDENTIFY
PACKER ARM
TYPE, SEE ILL.
ON PAGE 18.



MODEL 3500 - 3550 - 5500 - 5550 CULTIVATORS (AUSTRALIA ONLY)

**20' MAIN 10' WING
64 SHANK MACHINE - 8" SPACING**

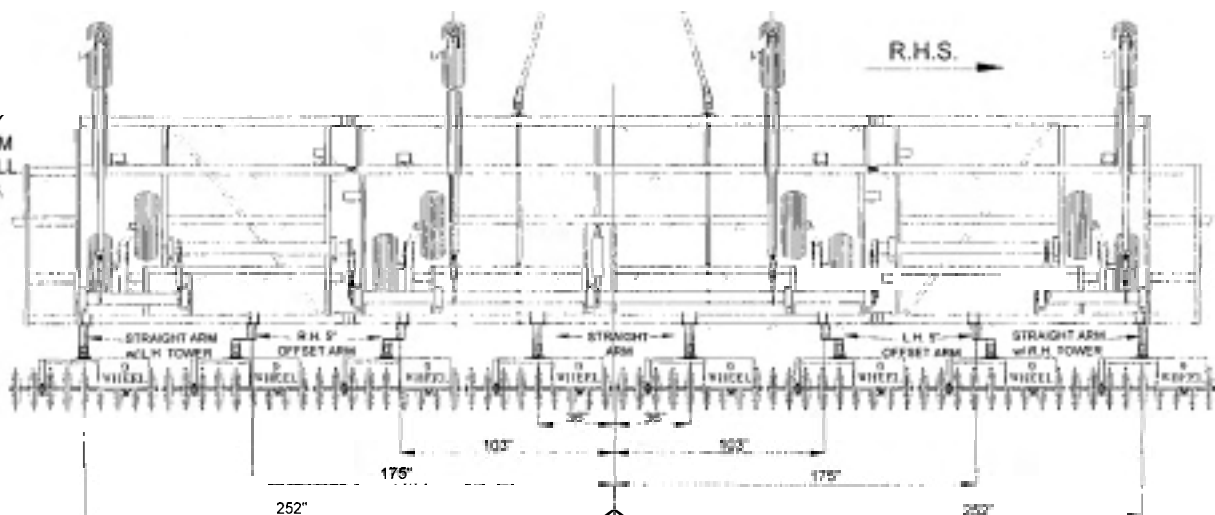
NOTE: TO IDENTIFY
PACKER ARM
TYPE, SEE ILL.
ON PAGE 18.



MODEL 3500 - 3550 - 5500 - 5550 CULTIVATORS (AUSTRALIA ONLY)

**20' MAIN 10' WING
72 SHANK MACHINE - 8" SPACING**

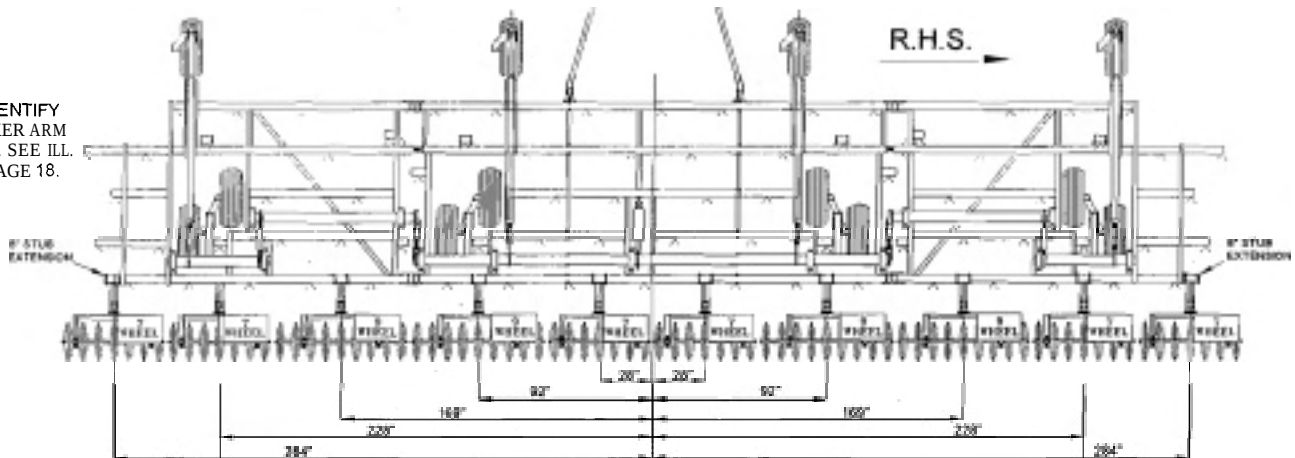
NOTE: TO IDENTIFY
PACKER ARM
TYPE, SEE ILL.
ON PAGE 18.



MODEL 3550 - 3550 CULTIVATOR (AUSTRALIA ONLY)

20' MAIN 10' WING
76 SHANK MACHINE - 8" SPACING

NOTE: TO IDENTIFY
PACKER ARM
TYPE. SEE ILL.
ON PAGE 18.

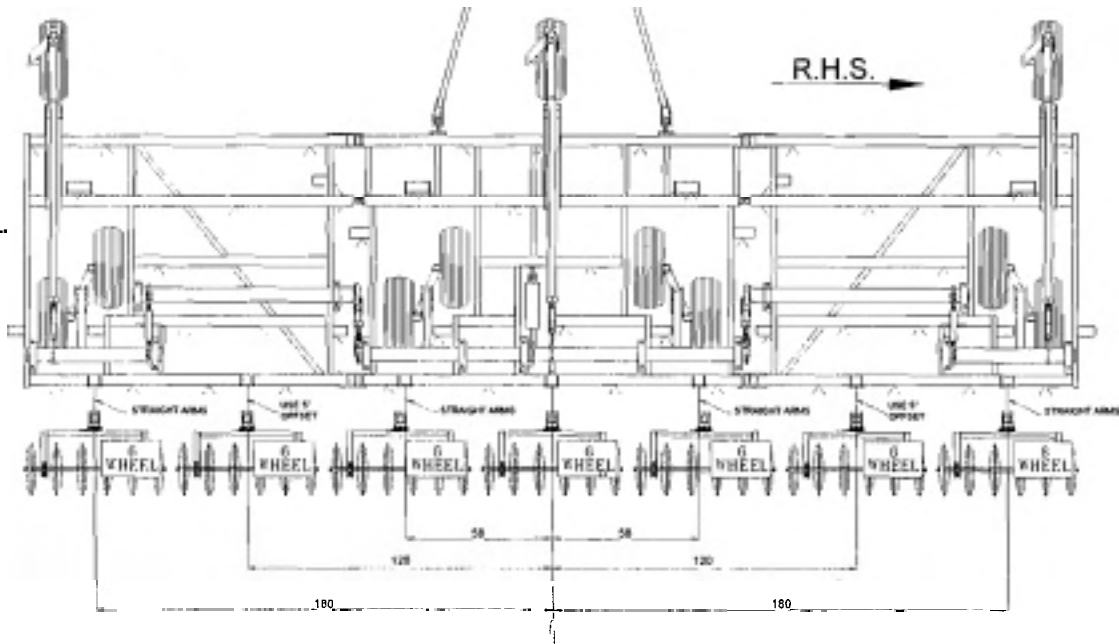


NOTE: ALL GANGS USE STRAIGHT PACKER ARMS

MODEL 3550 - 5550 CULTIVATOR

13-1/2' MAIN 10' WING
42 SHANK MACHINE - 10" SPACING

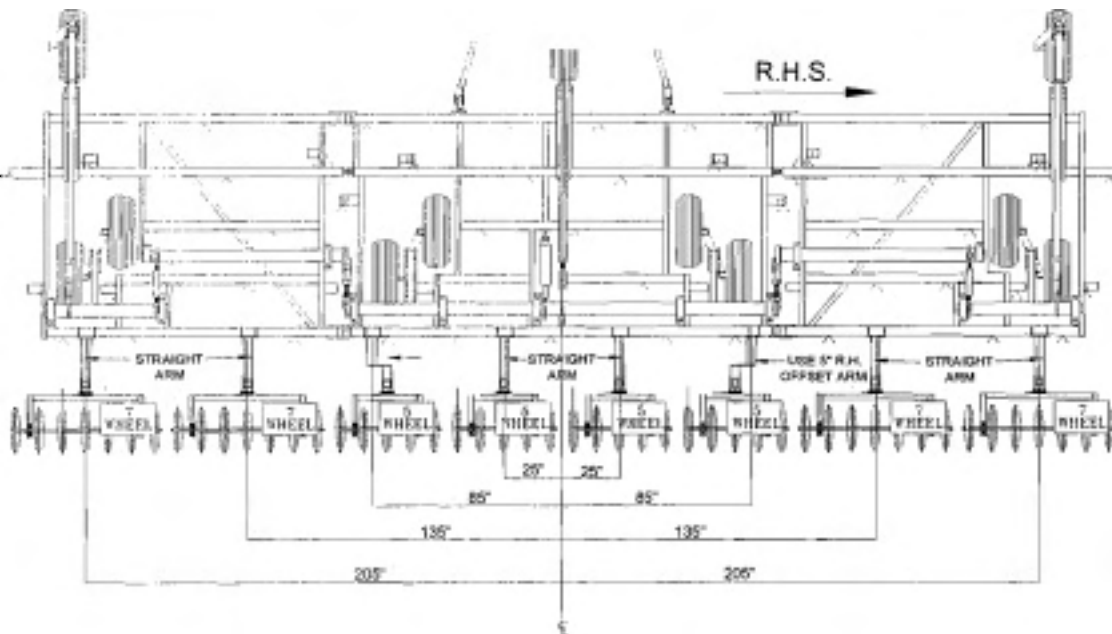
NOTE: TO IDENTIFY
PACKER ARM
TYPE, SEE ILL.
ON PAGE 18.



MODEL 3550 - 5550 CULTIVATOR

16' MAIN 10' WING
48 SHANK MACHINE - 10" SPACING

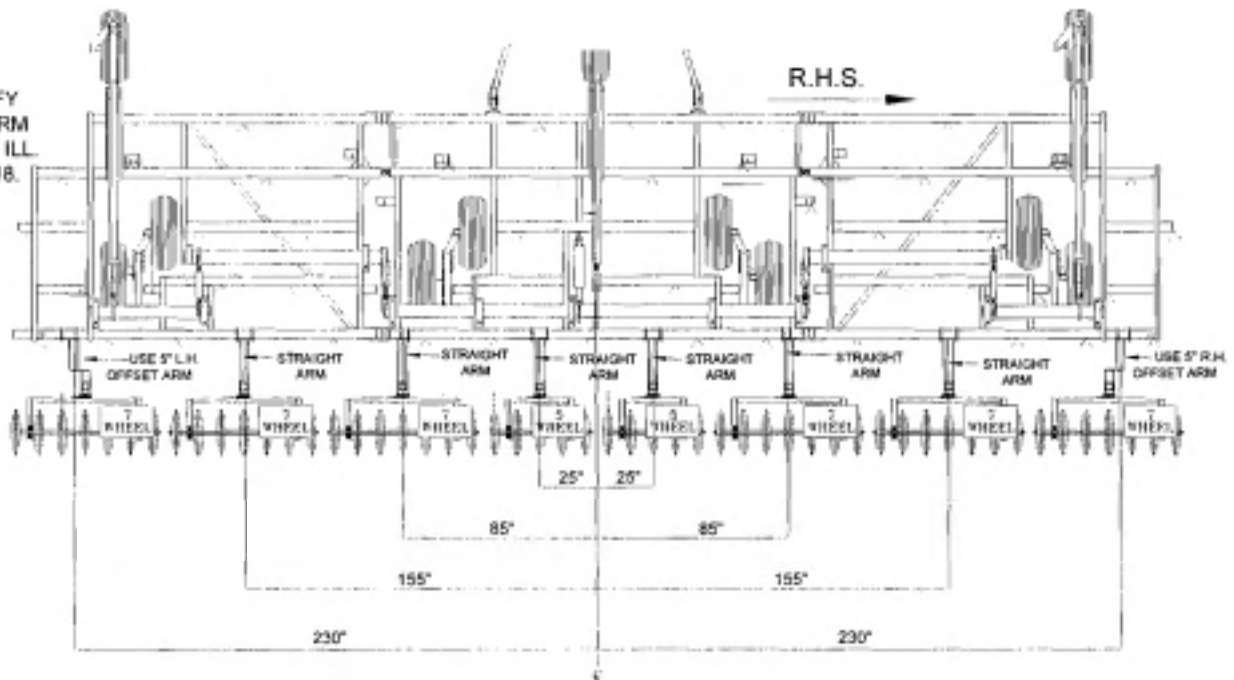
NOTE: TO IDENTIFY
PACKER ARM
TYPE, SEE ILL.
ON PAGE 18.



MODEL 3550 - 5550 CULTIVATOR

16' MAIN 10' WING
52 SHANK MACHINE - 10" SPACING

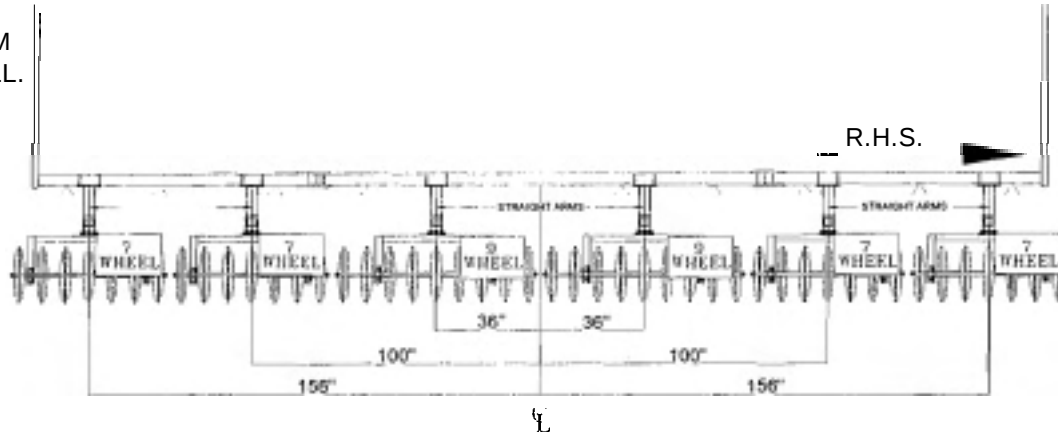
NOTE: TO IDENTIFY
PACKER ARM
TYPE, SEE ILL.
ON PAGE 18.



MODEL 5300 CULTIVATOR

13-1/2' MAIN 8' WING
44 SHANK MACHINE - 8" SPACING

NOTE: TO IDENTIFY
PACKER ARM
TYPE, SEE ILL.
ON PAGE 18.

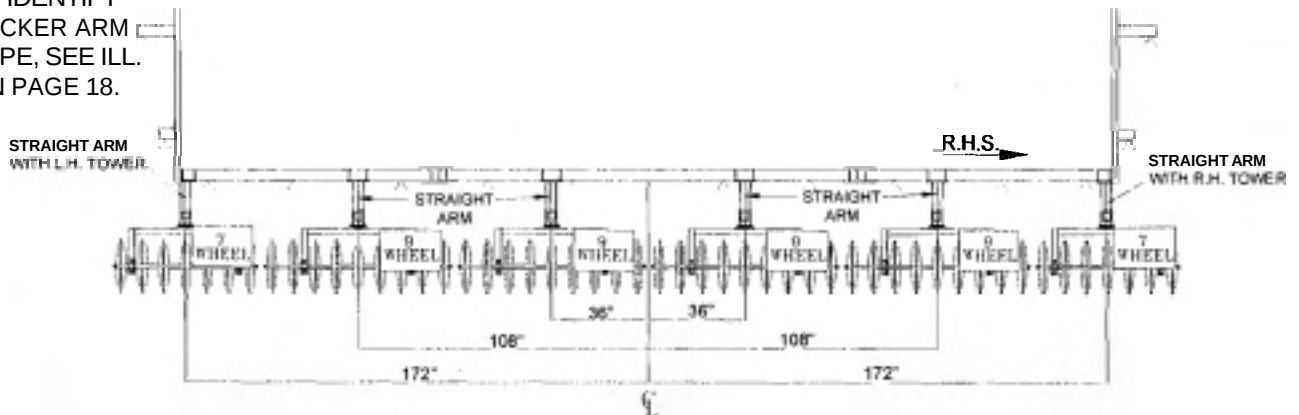


NOTE: ALL GANGS USE STRAIGHT PACKER ARMS.

MODEL 5300 CULTIVATOR

13-1/2' MAIN 8' WING
48 SHANK MACHINE - 8" SPACING

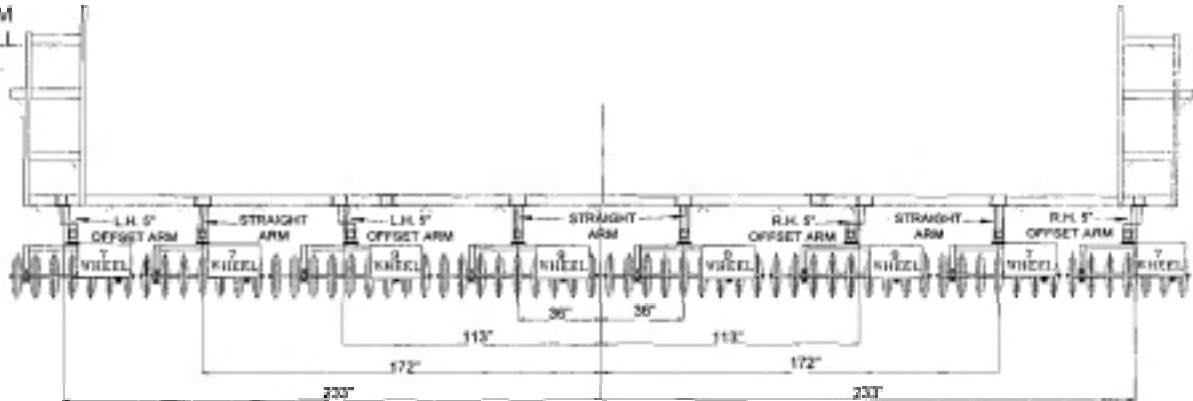
NOTE: TO IDENTIFY
PACKER ARM
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ON PAGE 18.



MODEL 5300 CULTIVATOR

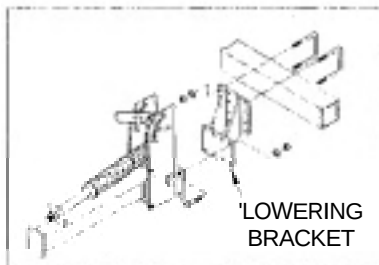
16' MAIN 10' WING
64 SHANK MACHINE - 8" SPACING

NOTE: TO IDENTIFY
PACKER ARM
TYPE, SEE ILL.
ON PAGE 18.

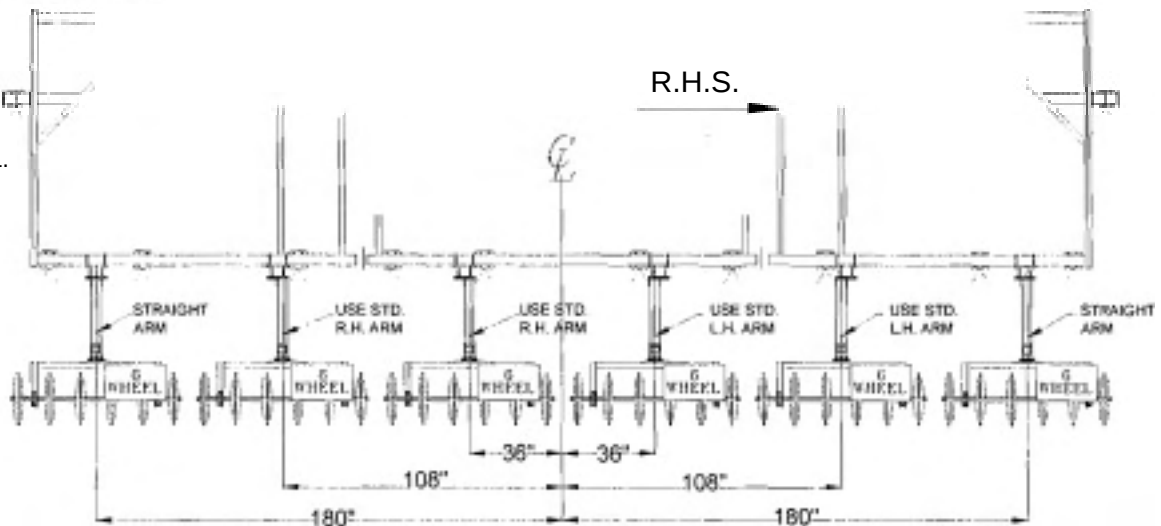


MODEL 7400-7450 CHISEL PLOW

14' MAIN 10' WING
36 SHANK MACHINE - 12" SPACING

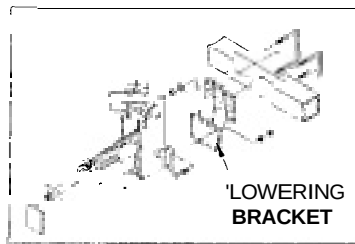


NOTE: TO IDENTIFY
PACKER ARM
TYPE, SEE ILL.
ON PAGE 18.

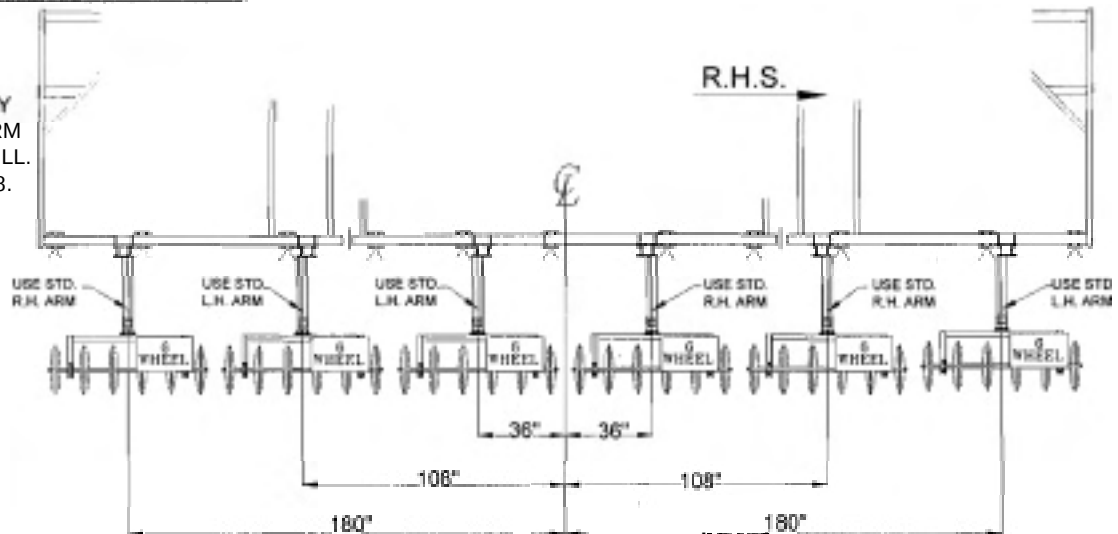


MODEL 7400-7450 CHISEL PLOW

16' MAIN 10' WING
36 SHANK MACHINE - 12" SPACING

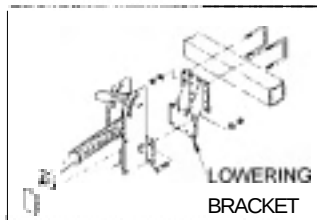


NOTE: TO IDENTIFY
PACKER ARM
TYPE, SEE ILL.
ON PAGE 18.

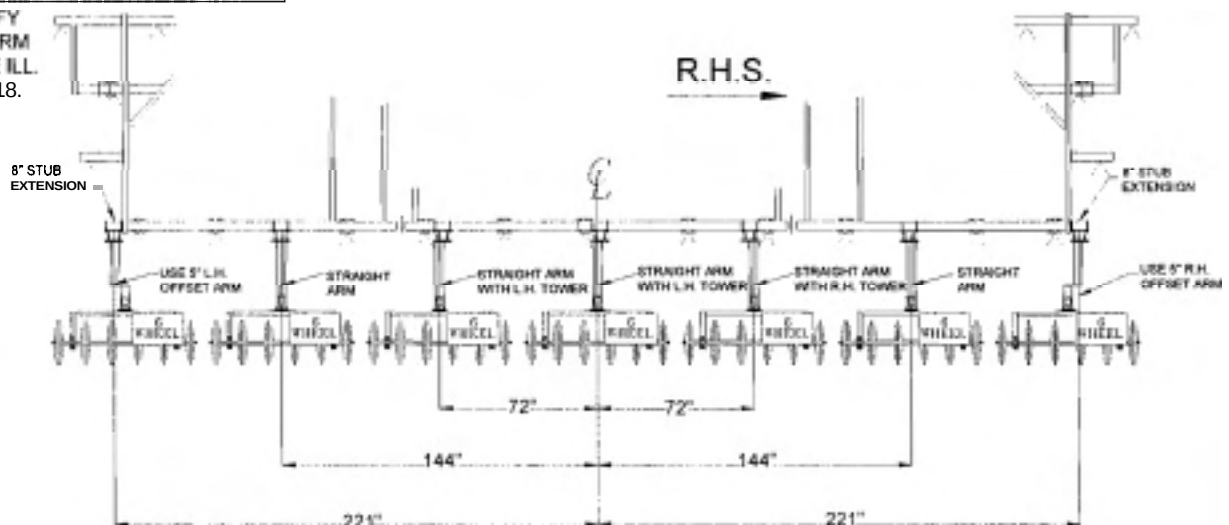


MODEL 7400-7450 CHISEL PLOW

16' MAIN 10' WING
42 SHANK MACHINE - 12" SPACING

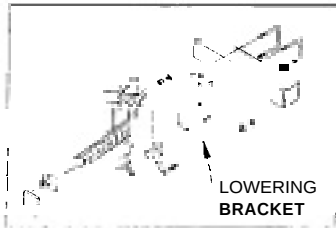


NOTE: TO IDENTIFY
PACKER ARM
TYPE, SEE ILL.
ON PAGE 18.

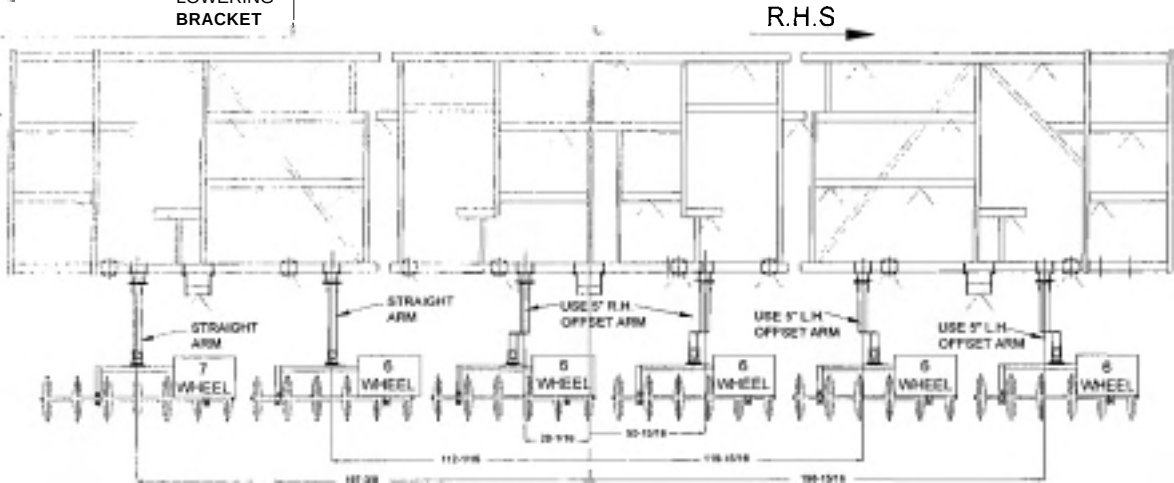


MODEL 7400-7450 CHISEL PLOW

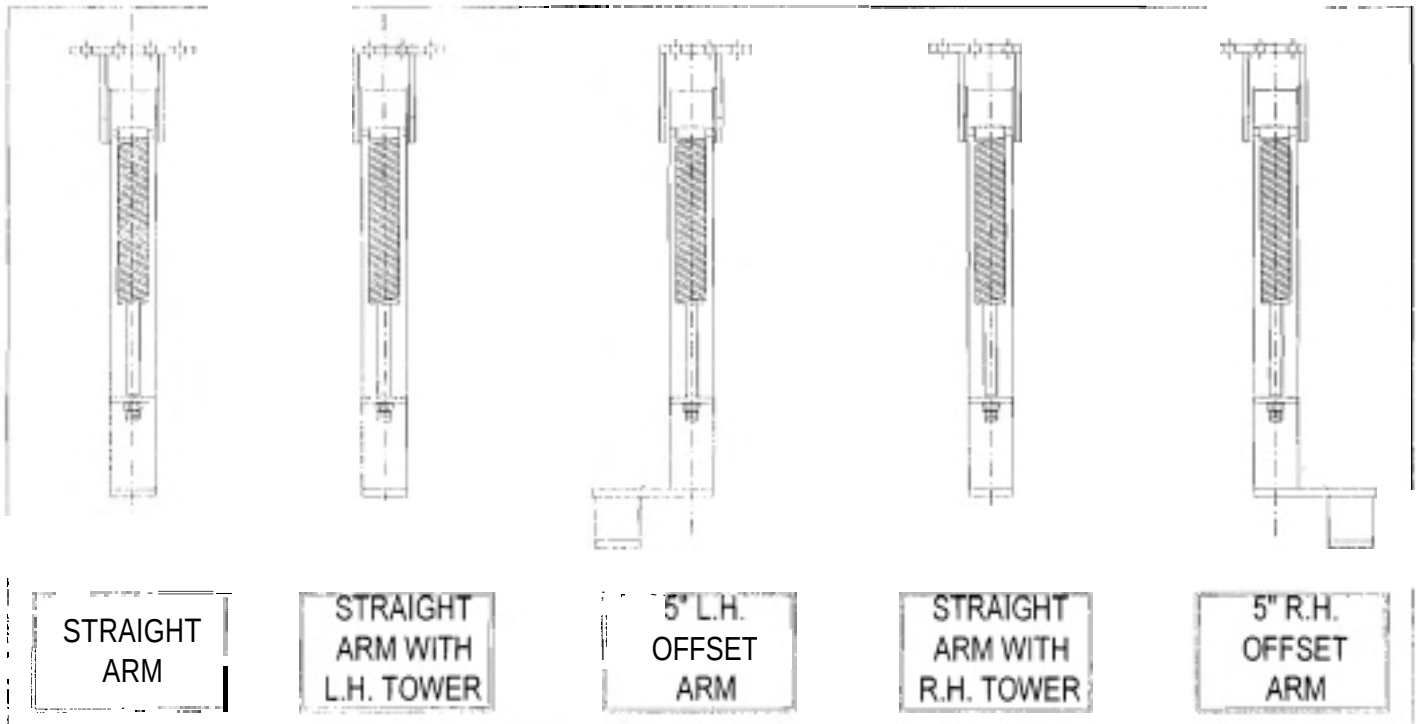
13-1/8" SPACING
(AUSTRALIA MACHINE ONLY)
37 SHANK MACHINE

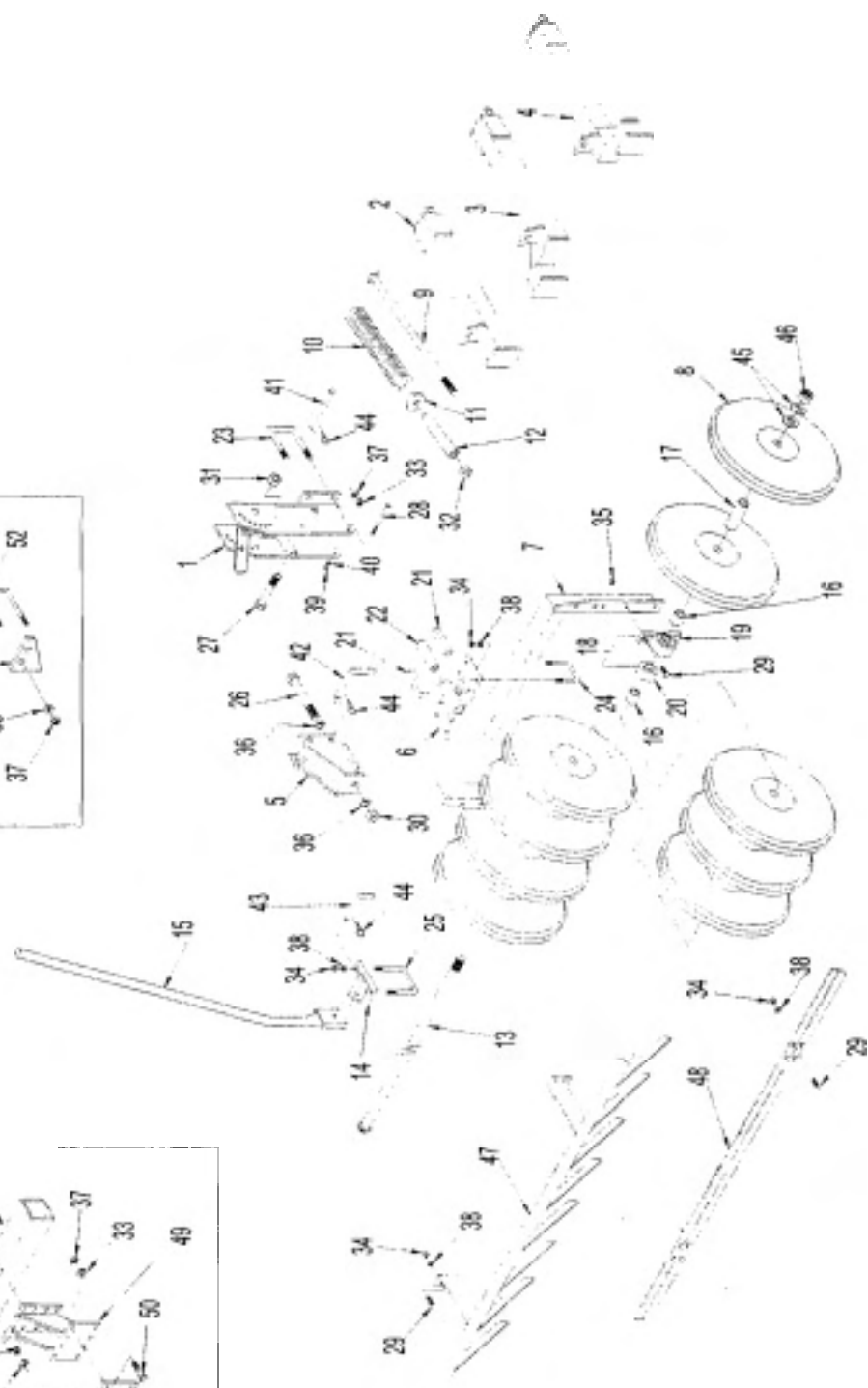
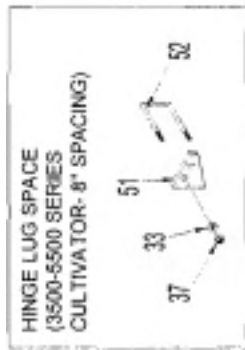


NOTE: TO IDENTIFY
PACKER ARM
TYPE, SEE ILL.
ON PAGE 18.



PACKER ARM TYPE



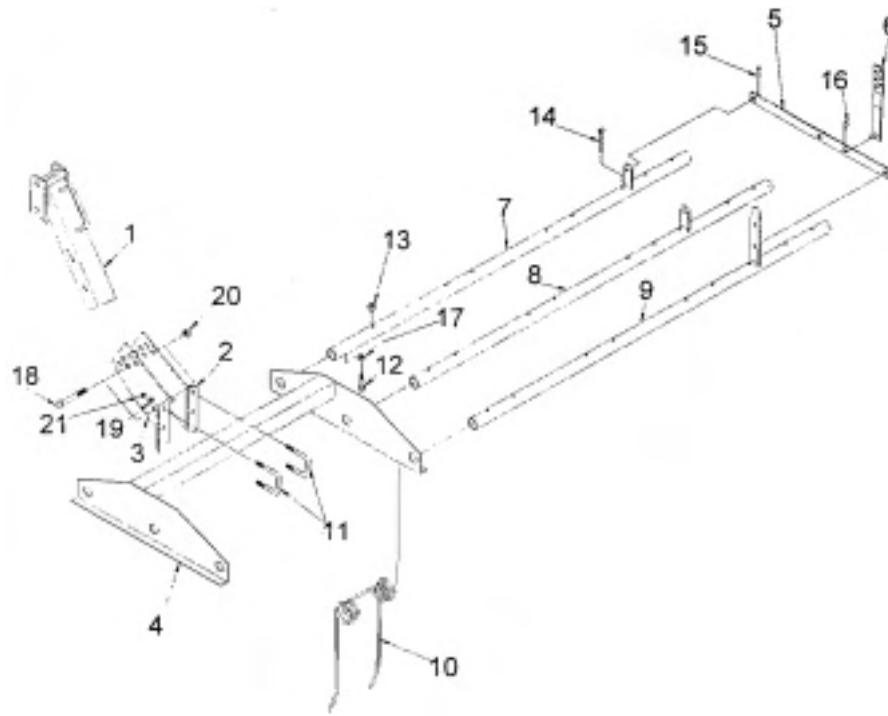


MODEL 500 MOUNTED PACKER

MODEL 500
MOUNTED PACKER PARTS LIST

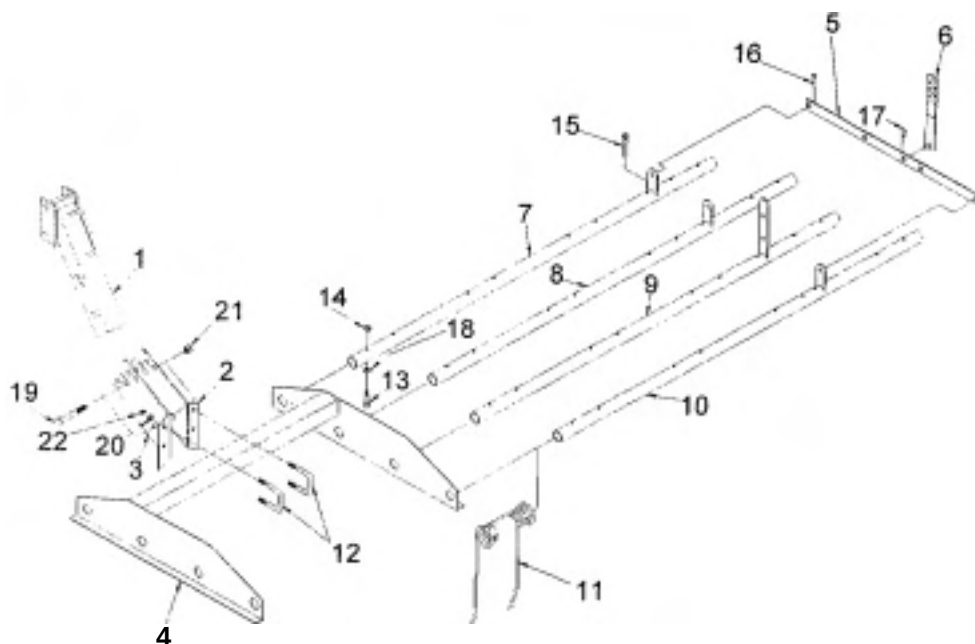
REF. NO.	PART NO.	DESCRIPTION	QTY/ GANG	REF. NO.	PART NO.	DESCRIPTION	QTY/ GANG
1	PW81038	Packer Tower - STD - Used with straight or offset arms only - Uses 8 hole mount plate	1	18	PW81006	205 Brg c/w Housing, Greaseable, Set Screw Type	2
	PW81039	Packer Tower - L.H. Offset- Used with straight arms and offset arms - Uses 6 hole mount plate with no outer holes on L.H.S.	1	19	PW81007	205 Brg Housing Only	2
	PW81040	Packer Tower - R.H. Offset - Used with straight arms and offset arms - Uses 6 hole mount plate with no outer holes on R.H.S.	1	20	PW81008	205 Brg Only	2
2	PW81011	Straight Packer Arm	1	21	PW81021	1" x 1" x 4-1/2" Rubber Block	2
3	PW81013	5 Offset Packer Arm - L.H.S.	1	22	C55201	1-1/4" O.D. x 5" Long Pivot Bushing	1
4	PW81014	5 Offset Packer Arm - R.H.S.	1	23	DG6080	5/8" x 4-11/16" c.c. x 5-1/2" U-bolt - plated	2
5	PW81016	Quick Attach Pivot Bracket	1	24	PW81000	1/2" x 3-9/16" c.c. x 3-1/8" U-bolt - plated	2
6	PW81010	Frame Mount Plate	1	25	C550734	1/2" x 4-9/16" c.c. x 5-1/4" U-bolt - plated	1
7	PW81015	Packer Frame - 8" Spacing	1	26	L3299	1" x 7" Hex Bolt - 1" thread (Special)	1
	PW81031	Packer Frame - 10" Spacing - 5 Wheel	1	27	--	3/4" x 5-1/2" N.C. Hex Bolt - plain	1
	PW81029	Packer Frame - 10" Spacing - 7 Wheel	1	28	--	3/8" x 5-1/2" N.C. Hex Bolt - plain	2
	PW81032	Packer Frame - 12" Spacing - 4 Wheel	1	29	--	1/2" x 1-1/2" N.C. Carriage Bolt - plain	4
	PW81009	Packer Frame - 12" Spacing - 6 Wheel	1	30	--	1" N.C. Hex Nut - plain	1
8	PW80120	2 0 Packer Wheel	1	31	--	3/4" N.C. Nylon Lock Nut - plated	1
9	PW81003	7/8" dia. X 25" Spring Rod	1	32	--	7/8" N.C. Hex Nut - plain	1
10	PW81002	Compression Spring - 2-7/8" O.D. - 1/2" wire	1	33	--	5/8" N.C. Hex Nut - plated	*
11	PW81045	Retainer - Compression Spring	1	34	--	1/2" N.C. Hex Nut - plated	6
12	PW81023	7-3/8" Spring Compression Tube - 7 Wheel Packer - used prior to 2001	1	35	--	9/16" N.C. Hex Nut - plated	4
	PW81424	8-1/2" Spring Compression Tube - 9 Wheel Packer - used prior to 2001	1	36	--	1" Lockwasher - plated	2
	PW81022	8" Spring Compression Tube - 7 & 9 Wheel Packer - used 2001 and after	1	37	--	5/8" Lockwasher - plated	*
13	PW81035	7 Wheel Gang Bolt - 1-1/4" dia. X 54" - 8" Spacing	1	38	--	1/2" Lockwasher - plated	6
	PW81036	9 Wheel Gang Bolt - 1-1/4" dia. X 70 - 8" Spacing	1	39	--	3/8" N.C. Hex Nut - plain	2
	PW81050	5 Wheel Gang Bolt - 1-1/4" dia. X 66 - 10" Spacing	1	40	--	3/8" Lockwasher - plain	2
	PW81051	7 Wheel Gang Bolt - 1-1/4" dia. X 66 - 10" Spacing	1	41	PW81018	3/8" Lock Pin - Tension arm assembly	1
	PW81065	4 Wheel Gang Bolt - 1-1/4" dia. X 42" - 12" Spacing	1	42	PW81017	3/4" Lock Pin - Packer quick attach	1
	PW81051	6 Wheel Gang Bolt - 1-1/4" dia. X 66" - 12" Spacing	1	43	PW81028	3/8" Lock Pin - Adjusting handle	1/mach
14	PW81027	Transport Support - Adjustment wrench	1/mach	44	PW81019	1/8" x 2-9/16" Hair Pin Cotter	*
15	PW81026	Adjustment wrench	1/mach	45	PW81033	2-1/16" O.D. x 1-5/16" I.D. x 1/8" thick head washer	2
16	PW81012	Half Spacer (Both sides) - 1-9/16 Long - 8" Spacing	4	46	DG125	1-1/4" N.C. Slotted Hex Nut	1
	PW81012	Short Half Spacer - 1-9/16" Long - 10 Spacing	2	47	PW81046	Rock Deflector - 7 wheel packer - 8" Spacing	*
	PW81041	Short Half Spacer - 1-1/16 Long - 12" Spacing (4 Wheel Gang Only)	2		PW81047	Rock Deflector - 9 wheel packer - 8" Spacing	*
	PW81042	Long Half Spacer - 3-9/16" Long - 10 Spacing	2		PW81043	Rock Deflector - 5 wheel packer - 10" Spacing	*
	PW81042	Half Spacer (Both sides) - 3-9/16 Long - 12" Spacing (6 Wheel Gang Only)	4		PW81044	Rock Deflector - 7 wheel packer - 10" Spacing	*
	PW81068	Long Half Spacer - 4-1/16 Long - 12" Spacing (4 Wheel Gang Only)	2		PW81054	Rock Deflector - 6 wheel packer - 12" Spacing	*
17	PW81034	Full Spacer - 4-1/2" Long - 8" Spacing	*	48	PW81048	Mud Scraper - 7 wheel packer - 8" Spacing	*
	PW81052	Full Spacer - 6-1/2" Long - 10" Spacing	*		PW81049	Mud Scraper - 9 wheel packer - 8" Spacing	*
	PW81053	Full Spacer - 8-1/2" Long - 12" Spacing	*		PW81055	Mud Scraper - 5 wheel packer - 10" Spacing	*
					PW81056	Mud Scraper - 7 wheel packer - 10" Spacing	*
					PW81057	Mud Scraper - 6 wheel packer - 12" Spacing	*
				49	PW81020	Lowering Bracket - 7400/7450 Chisel Plow	1
				50	--	5/8" x 1-3/4" N.C. Hex Bolt	4
				51	PW81005	Hinge Lug Spacer Plate (3500/3550/5500/5550 Cultivator Only)	*
				52	DG8541	5/8" x 4-11/16" c.c. x 6-13/16" U-Bolt (3500/3550/5500/5550 Cultivator Only)	*

*As Required



MODEL 500 HARROW
(3 BAR HARROW 4-1/2 FT. & 6 FT.)

REF NO	PART NO.	DESCRIPTION	QTY REQ'D/SECTION
1	PW81030	HARROW ADAPTER BRACKET	1
2	M80016	ATTACHING BRACKET - R.H.	1
3	M80015	ATTACHING BRACKET - L.H.	1
4	M80061	3 BAR 6 FT. FRAME	1
	M80066	3 BAR 4-1/2 FT FRAME	1
5	M80030	ANGLE ADJUSTING TIE BAR	1
6	M80032	ANGLE ADJUSTING PLATE	1
7	M80042	3 BAR - FRONT - 46" LONG (4-1/2 FT. HARROW)	1
	M80039	3 BAR - FRONT - 64" LONG (6 FT. HARROW)	1
8	M80043	3 BAR - SECOND - 46" LONG (4-1/2 FT. HARROW)	1
	M80040	3 BAR - SECOND - 64" LONG (6 FT. HARROW)	1
9	M80044	3 BAR - THIRD - 46" LONG (4-1/2 FT. HARROW)	1
	M80041	3 BAR - THIRD - 64" LONG (6 FT. HARROW)	1
10	M80019	18" HARROW TINE	16
11	M80010	1/2" N.C. x 3-1/16 x 3-9/16" U-BOLT	2
12	M80012	3/8" N.C. x 2-1/4" SPECIAL LONG HEAD BOLT	32
13		3/8" N.C. H M NYLON LOCKNUT	32
14		5/16" x 3" COTTER PIN	4
15		1/8" x 1-1/2" COTTER PIN	4
16	M80064	HAIR PIN	1
17		3/8" LOCKWASHER (Not required when harrow bolt head is 5 18 long)	1
18		5/8" N.C. x 4-1/2" HEX BOLT	2
19		1/2" N.C. LOCKWASHER	2
20		5/8" N.C. HEX NYLON LOCKNUT	2
21		1/2" N.C. HEX NUT	2



MODEL 500 PACKER
(4 BAR HARROW 4-1/2 FT. & 6 FT.)

REF NO	PART NO.	DESCRIPTION	QTY REQ'D/SECTION
1	PW81030	HARROW ADAPTER BRACKET	1
2	M80016	ATTACHING BRACKET - R.H.	1
3	M80015	ATTACHING BRACKET - L.H.	1
4	M80062	4 BAR 4-1/2 FT. FRAME	1
	M80063	4 BAR 6 FT FRAME	1
5	M80031	ANGLE ADJUSTING TIE BAR	1
6	M80032	ANGLE ADJUSTING PLATE	1
7	M80049	4 BAR - FRONT - 46" LONG (4-1/2 FT. HARROW)	1
	M80045	4 BAR - FRONT - 64" LONG (6 FT. HARROW)	1
8	M80050	4 BAR - SECOND - 46" LONG (4-1/2 FT. HARROW)	1
	M80046	4 BAR - SECOND - 64" LONG (6 FT. HARROW)	1
9	M80051	4 BAR - THIRD - 46" LONG (4-1/2 FT. HARROW)	1
	M80047	4 BAR - THIRD - 64" LONG (6 FT. HARROW)	1
10	M80052	4 BAR - REAR - 46" LONG (4-1/2 FT. HARROW)	1
	M80048	4 BAR - REAR - 64" LONG (6 FT. HARROW)	1
11	M80019	18" HARROW TINE	16
12	M80010	1/2" N.C. x 3-1/16 x 3-9/16" U-BOLT	2
13	M80012	3/8" N.C. x 2-1/4" SPECIAL LONG HEAD BOLT	32
14		3/8" N.C. HEX NYLON LOCKNUT	32
15		5/16" x 3" COTTER PIN	4
16		1/8" x 1-1/2" COTTER PIN	4
17	M80064	HAIR PIN	1
18		3/8" LOCKWASHER (Not required when harrow bolt head is 5/8" long)	1
19		5/8" N.C. x 4-1/2" HEX BOLT	2
20		1/2" N.C. LOCKWASHER	2
21		5/8" N.C. HEX NYLON LOCKNUT	2
22		1/2" N.C. HEX NUT	2