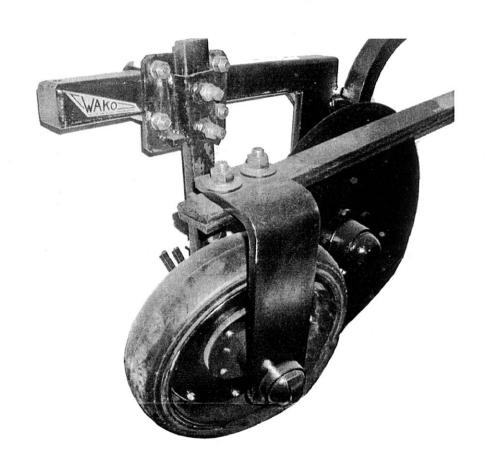
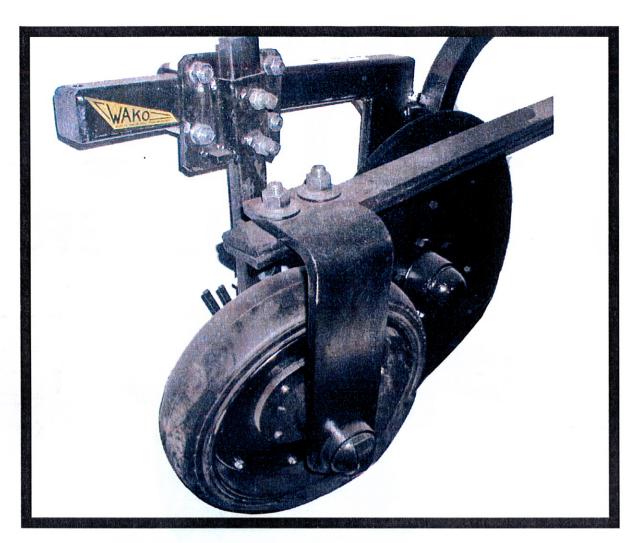
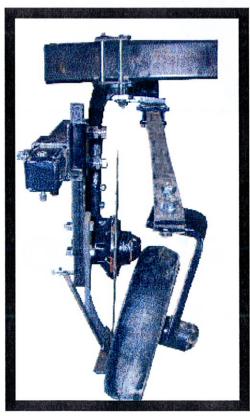
WAKO'S NO TILL OFFSET COULTER



ASSEMBLY INSTRUCTIONS & PARTS LIST



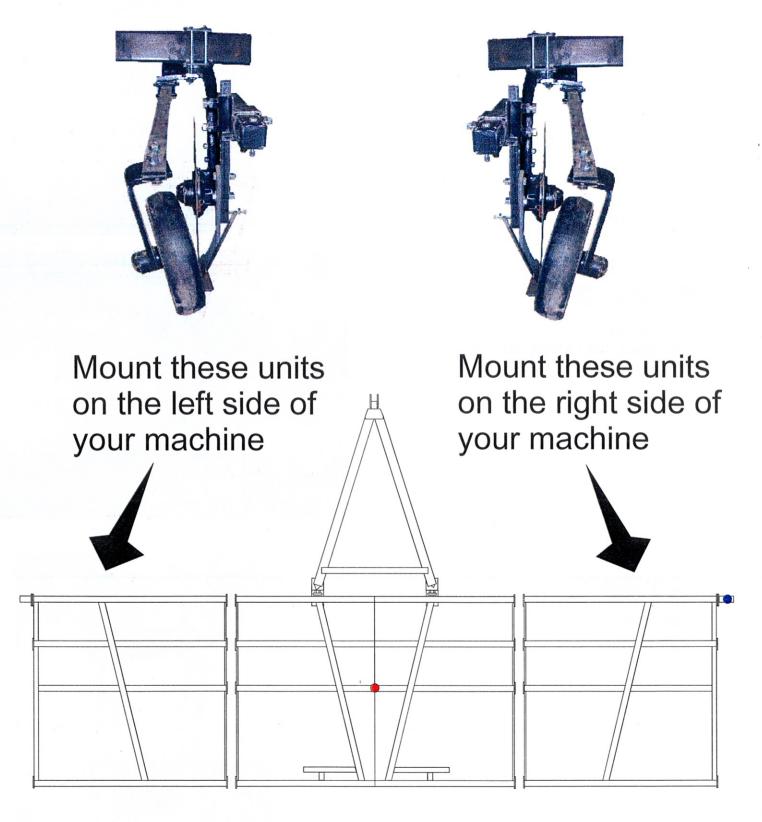


The Assembled WAKO NTO Coulter

(no till offset)

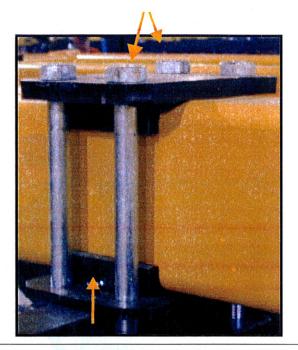


Attention!



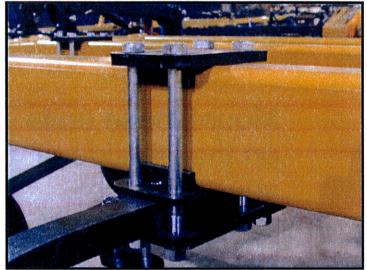
Proper mounting will make these units draft into the ground rather than ride out.

Start with plate #2a (5/8" thick with stops) on top of the frame. Next install the four 10" bolts (#28a,b,d).



STEP 2

Slide plate #2b (3/8" thick with stops on both sides) onto the bolts.



back view

STEP 3

Hold the shank up against plate #2b with the end of the shank 4" ahead of plate #2b. Install plate #3. Now install the nuts and lock washers on the four bolts.





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Front view

Slide the shank back until bracket (#4 & #5) are against the shank plates. Tightten plate (#5) as shown in the picture. Now tighten the 4 shank mounting bolts. NOTE: (#4 comes in lefts & rights)



STEP 5

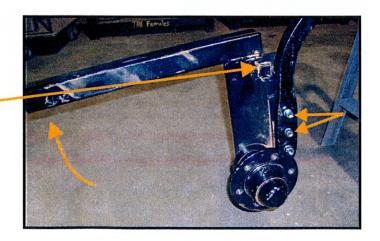
Mount the coulter frame assy (#6) to shank letting it rest on the ground while you secure the bottom bolt fasteners-(#29 a,b,d) (#6 comes in lefts & rights & fastener #24 comes in two lengths to accommodate lefts & rights)
Left unit shown#24 for a (left is 4") and length for a (right is 3")



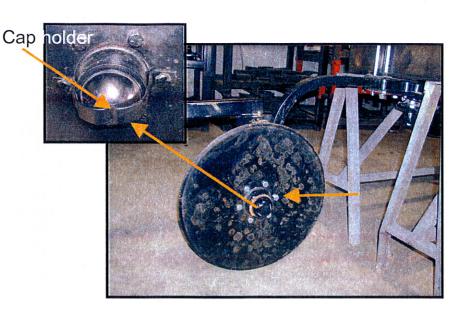
STEP 6

Swivel the coulter frame assy. up and install the remaining two bolts (#21a,b,d)lift the end of the bar up until the square stop contacts the shank. _____ Tighten one bolt to hold it there then tighten the other two bolts.



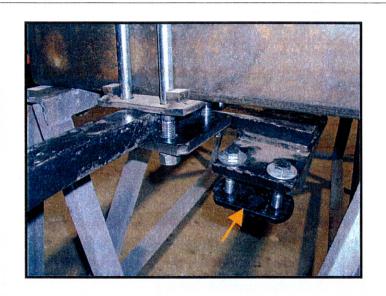


Now mount the coulter disc, cap and cap holder.
(#7) using fasteners (#22a)



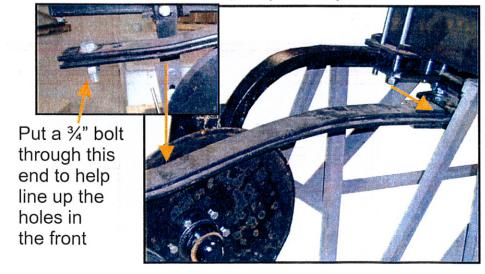
STEP 8

Mount the leaf spring retainer plate (#8) fasteners (#29a,b,c,d) just start the nuts.



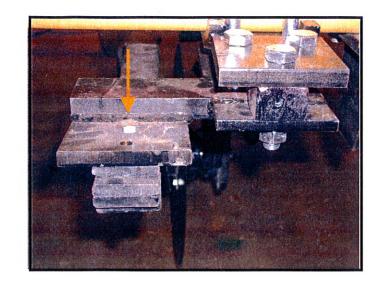
STEP 9

Insert the two leaf springs & spring savers (#9) into the holder made up of (#4 & #8)





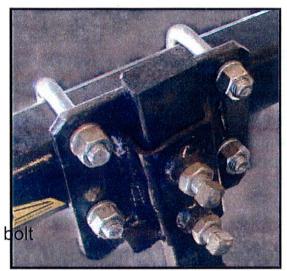
Secure the springs in place by inserting and securing bolt (#20a,b,d) through the end of leaf spring and holder. We have had more success with the bolt in the front hole.



STEP 11

Slide the knife bar holder (#13) onto the coulter frame assy. and insert the u-bolts (#16a,f) and start the nuts. (#13 comes in lefts & rights)
Start the 2 set screws w/jam nuts (23a & g) in the knife bar holder.

STEP 11a Put the knife bar in the knife bar holder about 1" above the holder, snug 1 bolt



STEP 12

Mount the knife (#15) using bolt (#19a,b,c,d) in the two knife holes and (#18a,g) in the bottom hole of the knife bar (#14). (#15 comes in lefts & rights) Pull the knife back & at this time tighten the top bolt only.





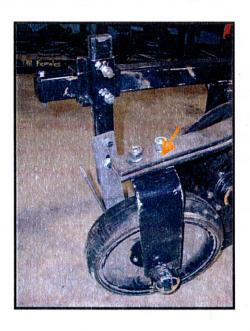
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Mount the wheel (#12) onto the wheel mounting hub (#10/11). fasteners (#17a)



STEP 14

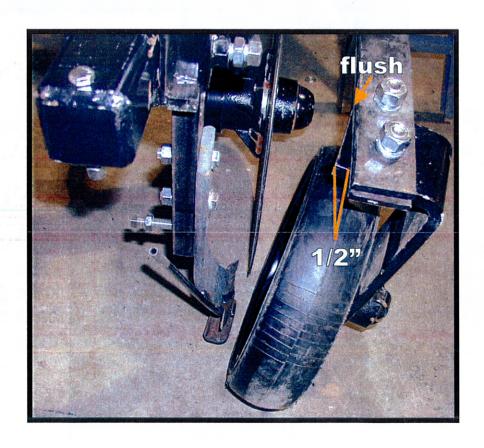
Using fasteners (#26a,b,c,d) mount the wheel assembly onto the spring. Here the press wheel is mounted on the bottom of the spring but some applications may call for it to be mounted on the top of the spring.



ADJUSTING THE NTO COULTER

SETTING THE WHEEL PITCH STEP 15

Adjust the wheel pitch so that the closing hub mounting arm corner is flush with the spring in the front and extends toward the coulter disc/knife assembly ½" in the back. (at 7° angle)





SETTING THE KNIFE TO THE COULTER DISC

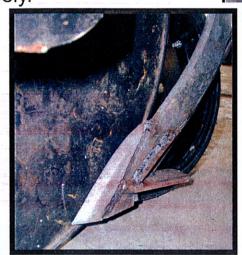
STEP 16

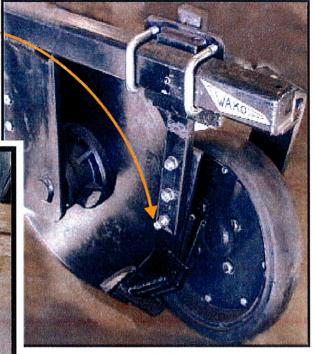
Use bolt (#18a,g) to adjust the knife's left/right pitch to the coulter disc.

The knife should be an 1/8" away at the closest point but the coulter

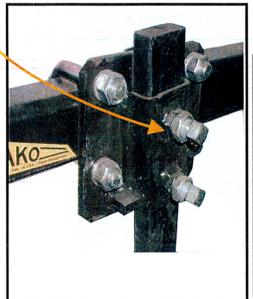
must still spin freely.

Jam the nut, tighten the 2nd bolt at this time. Now tighten the knife bar.





STEP 17 Set the knife's height to the coulter disc by adjusting bolts (23a,g) on the knife bar (#14).



Tip of knife insert should be even with the bevel of the coulter disc.



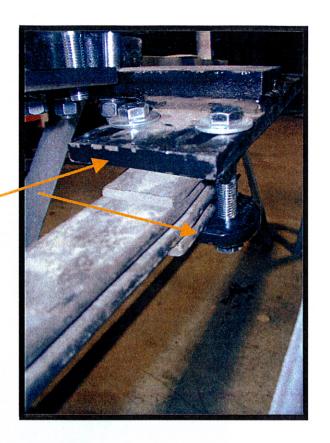
Once the height is set pull the knife & knife bar back and tighten the set screws.



SETTING THE WHEEL TO THE KNIFE

STEP 18

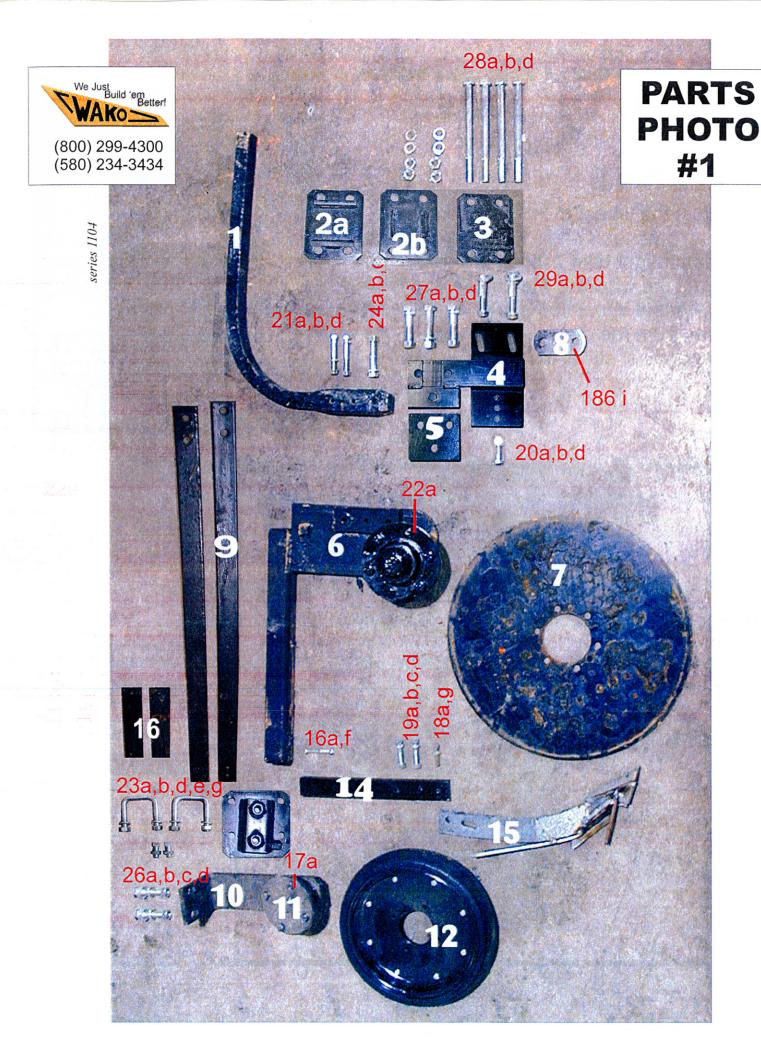
Adjust the wheel to knife placement using bracket (#4/#8). Shift springs right or left (might take a 'jiggling' motion) to adjust the wheel to the knife. The wheel should be a 1/4" away from the disk. Wheel must still spin freely. Tap the lower plate & or bolt heads to adjust them in the slots.





CORRECTLY ADJUSTED NTO COULTER





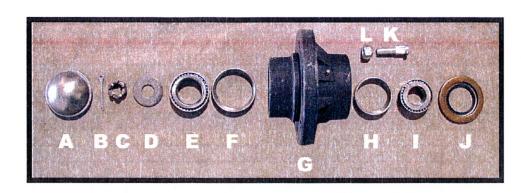
	PARTS LIST	QTY.	PART NUMBER			
1	1-1/2" CHISEL SHANK (LONG)	1	KSHC1200L112			
2a	FRAME MOUNT PLATE - TOP (WITH STOPS ON ONE SIDE)	1	Z0217B		0	
b	FRAME MOUNT PLATE - CENTER (STOPS ON BOTH SIDES)	1	Z0217B			
3	FRAME MOUNT PLATE - BOTTOM (WITH NO STOPS)	1	Z0217-WSB			
4	LEFT ADJ. LEAF SPRING HANGER BRACKET	1	Z0492-WSL			
	RIGHT ADJ. LEAF SPRING HANGER BRACKET	1	Z0492.0-WSR			
5	LEAF SPRING HANGER PLATE	1	Z0492C			
6	LEFT COULTER FRAME ASSEMBLY	1	Z0484-WSAL	see parts	photo # 2	KAN CACALTAN SAN
	RIGHT COULTER FRAME A SSEMBLY	1	Z0484-WSAR	for details	3	
7	24" COULTER , SINGLE BEVEL (6 HOLE)	1	TCOP24243SB			
8	LEAF SPRING RETAINER PLATE	1	Z0186-I			
9	CLOSER LEAF SPRINGS	2	Z0491A			
10	PRESS WHEEL MOUNTING ARM	1	Z0488-WSH			
11	4 HOLE ROUND PLATE AND SPINDLE	1	Z0488-WSI	see parts	photo # 3	
12	PRESS WHEEL	1	WHBNTO			
13	LEFT KNIFE BAR HOLDER	1	Z0485-WSAL			
	RIGHT KNIFE BAR HOLDER	1	Z0485-WSAR			
14	KNIFE BAR	1	Z0489A			
15	LEFT KNIFE	1	KKNCNTOL		 	
16	RIGHT KNIFE	1	KKNCNTOR			
	LEAF SPRING BACKUP	1	Z0491B		 	
17a 18a	1/2" x 1" fine thread hex cap bolt	1	FCH121F			
	1/2" x 1-3/4" set screw (sq. head cone cup)		FTS12134			
g 40a	1/2" jam nut	2	FNT12J			
19a	1/2" x 2" hex cap bolt 1/2" nut	2	FHC122 FNT12		-	
C	1/2" flat w asher	2	FFW12			
d	1/2" lock w asher	2	FLW12			
20a	1/2" x 3-1/2" hex cap bolt	1	FHC12312			
b	1/2" nut	1	FNT12			
d	1/2" lock w asher	1	FLW12			
21a	1/2" x 4" hex cap bolt FOR LEFT	2	FHC124			
	1/2" x 3" hex cap bolt FOR RIGHT	2	FHC123			
b	1/2" nut	2	FNT12			
d	1/2" lock w asher	2	FLW12			
22a	9/16" x 1-1/4" fine thread hex cap bolt	6	FCH916114			
23a	5/8" x 1-1/2" set screw	4	FTS58112Z			
b	5/8 nut	4	FNT58			
d	5/8 lock w asher	4	FLW58			
е	5/8 x 3-3/4 U-Bolt	2	FUB58334			
g	5/8" jam nut	4	FNT58J			
24a	5/8" x 4" hex cap bolt FOR LEFT	3	FHC584			
	5/8" x 3" hex cap bolt FOR RIGHT	3	FHC583			
b	5/8" nut	3	FNT58			
С	5/8" flat w asher	2	FFW58			
d	5/8" lock w asher	3	FLW58			
25a	3/4" x 2-1/2" hex cap bolt	1	FHC34212			
b	3/4" nut	1	FNT34			
d	3/4" lock w asher	1	FLW34			
26a	3/4" x 3" hex cap bolt	2	FHC343			
b	3/4" nut	2	FNT34			
C	3/4" flat w asher	2	FFW34			
d	3/4" lock washer	2	FLW34			
27a	3/4" x 4" hex cap bolt	3	FHC344			
b	3/4" nut	3	FNT34			
d	3/4" lock washer	3	FLW34			
28a	3/4" x 10" hex cap bolt	4	FHC3410		 	
b	3/4" nut	4	FNT34			
d	3/4" lock washer	4	FLW34		 	
29a	5/8 x 4-1/2 hex cap bolts	2	FHC58412			

PARTS PHOTO #2

DETAIL OF PART #6

803 HUB

6 bolt 4910 lb. 2-1/8" spindle

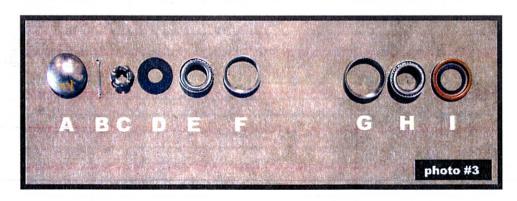


РНОТО #3	DESCRIPTION		HOW MANY USED	WAKO PART NUMBER
Α	DUST CAP	3-5/8"	1	WHB803L
В	COTTER PIN		1	WHB803K
С	CASTLE NUT	7/8"SAE	1	WHB803H
D	WASHER	7/8"	1	WHB803J
E	INNER BEARING		1	WHB803D
F	INNER RACE		1	WHB803E
G	HUB ONLY w/RACES		1	WHB803A
Н	OUTER RACE		1	WHB803G
1	OUTER BEARING		1	WHB803F
J	SEAL		1	WHB803C
K	LUG BOLT		6	WHB611I
L	NUT		6	

PARTS PHOTO #3

DETAIL OF PART #11

WAKO MFG'D HUB using 611/709 HUB PARTS



РНОТО #3	DESCRIPTION		HOW MANY USED	WAKO PART NUMBER
A	DUST CAP	2-7/16"	1	WHB611L
В	COTTER PIN		1	WHB611K
C	CASTLE NUT	7/8"SAE	1	WHB611H
D	WASHER	5/8"	1	WHB611J
E	INNER BEARING		1	WHB611D
F	INNER RACE		1	WHB611E
G	OUTER RACE		1	WHB611G
Н	OUTER BEARING		1	WHB611F
1	SEAL		1	WHB611C



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