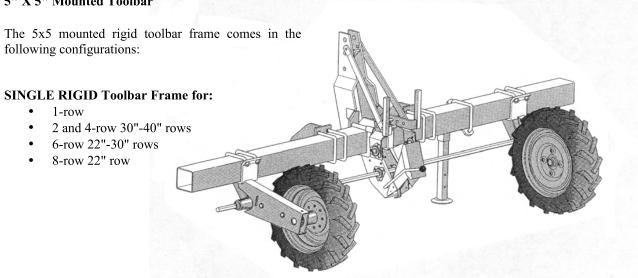
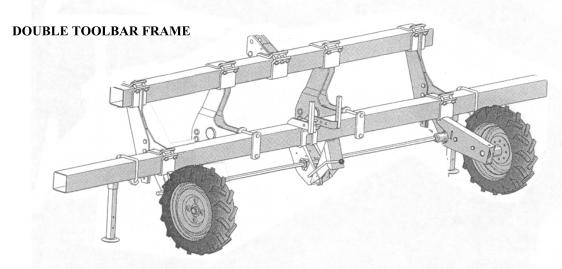
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# 5" X 5" Mounted Toolbar



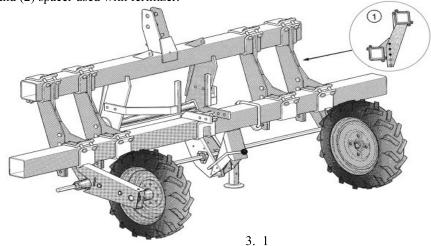


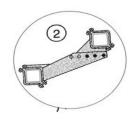
# ADVANCED FRAME rigid toolbar for:

This frame is used when a unit needs to be placed in the center of the main toolbar. This toolbar gives you the option of a 1, 3, 5, or 9-row planter.

The photo shows spacers

- (1) Used without fertilizer
- And (2) spacer used with fertilizer.





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### 5" X 5" Mounted Toolbar

#### **TOOLBAR**

The standard 5"x5" toolbar comes in these sizes: 8'2" - 11'6" - 13'2" - 14'9" - 5mm thickness 20' - reinforced 5mm thickness 14'9" - 20' - 23' - 25' - 6mm thickness

### TOOLBAR STAND

One or two toolbar stands are located on the front of the main frame. Position the stands so that they are not directly behind the tire of the tractor. Planters with front mounted drive wheels do not require toolbar stands.

### HEX SHAFT, COUPLERS, BUSHING STOPS

The drive wheels drive the hex shaft; the hex shaft then turns the transmission that drives the planter units. It is important to visually check the hex shaft each season to make sure it is straight. Couplers can be used to extend a shaft. The bushing stops prevent the hex shaft from working or moving from side to side, while in operation.

#### FIXED DRIVE WHEEL

The fixed drive wheel block is mounted on the 5"x5" toolbar frame with (2) 16mm 'V' bolts and (4) 16mm locking nuts.

Tire size = 5.90" x15"

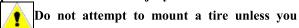
PSI. = 36

The tire pressure should be checked and regularly maintained. There is a right and left mounting for the wheel blocks. To determine the right and left hand side of the planter, stand behind the planter and face it. The back of the planter is the side that is not hooked up to the tractor.



DANGER Rim and tire servicing can be

dangerous. Explosive separation of a tire and rim parts can cause serious injury or death!



have the proper equipment and experience to perform the job. Only properly trained and equipped people should do this job. Maintain the correct tire pressure. Do not inflate the tires above the recommended pressure.

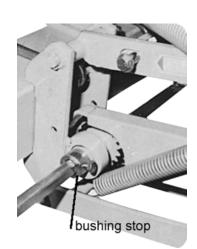
When inflating tires, use a slip-on air chuck and extension hose long enough to allow you to stand to one side, and not in front of, or over, the tire assembly. Use a safety cage to enclose the tire and assembly when inflating.

Inspect tires and wheels daily. Do not operate with low pressure, cuts, bubbles, damaged rims or missing lug bolts and nuts.

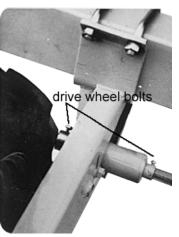
Important: Check that the chains for the drive

wheel blocks are tight. If not, tighten **adjustment bolt** in an "up" position.

Also, check that the **bushing stops** of the upper hex shaft and the **bolts of the drive wheel** blocks are tight. The bolts or the drive wheel blocks secure the lower hex shaft.







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### 5" X 5" Mounted Toolbar

### ADJUSTABLE DRIVE WHEEL

The adjustable drive wheel block is mounted on the 5"x5" toolbar frame with a counter clamp. The adjustable drive wheel block allows you to adjust the level of the toolbar and adjust the height for variances in the seed bed.

Either a screw-type or a newer spring-loaded adjustment regulates the wheel block. They are both interchangeable within the wheel block.

The screw-type adjustment is rigid, while the springloaded adjustment acts as a 'shock absorber' and allows for a flex up and down of the wheel to ride the contours of the land.

The spring-loaded adjustment can also be made rigid by tightening the nylon locknut clockwise on top of the housing. This will compress the spring inside the housing and minimize any upward or downward travel of the wheel block.

### ADJUSTING THE DRIVE WHEEL

To lower the drive wheel, turn the hand wheel counterclockwise.

To raise the drive wheel turn the hand wheel clockwise.

There is a right and left mounting for the wheel blocks which is determined by standing behind the planter as it would be hooked up to the tractor.

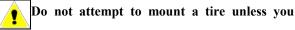
Tire size = 5.90" x 15" and PSI = 36

The tire pressure should be checked and regularly maintained.



DANGER Rim and tire servicing can be

dangerous. Explosive separation of a tire and rim parts can cause serious injury or death!



have the proper equipment and experience to perform the job. Only properly trained and equipped people should do this job. Maintain the correct tire pressure. Do not inflate the tires above the recommended pressure.

### SINGLE TOOLBAR HITCH

The single toolbar hitch consists of two lower hitch brackets (right and left) and one main heavy-duty center mast with tie brace and straps. The lower mounting brackets are delivered with a Cat. II pin. A Cat. I pin or a bushing for a Cat. III pin is also available. If necessary, the lower mounting brackets of the standard hitch can be mounted as a counter clamp of the planting unit.

#### DOUBLE TOOLBAR HITCH & SPACER

The planter hitch of the double toolbar consists of two lower hitch brackets (right and left) and one upper mounting bracket. The double toolbar hitch is delivered with a Cat. II hitch pin. This bracket can also be positioned to fit a Cat. III 3-point or quick hitch. The double toolbar hitch is generally used with two spacers for extra support.

#### ADVANCED HITCH

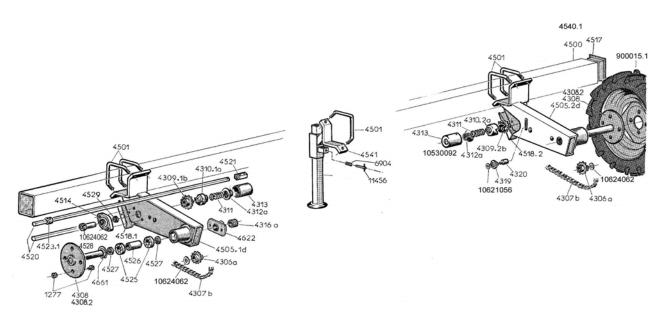
The advanced hitch allows for the placement of a unit in the center of the main toolbar. This feature gives you the option for an odd number of units on the main frame. Included in the advanced hitch are mounting brackets for placement of the gearbox in an advanced position. The hitch bar (4365.a) is semi-automatic.

CAUTION Make sure that the tractor, when placed in front of the planter, does not interfere with the lock bar of the hitch. This could result in the unlocking of the hitch.

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# 5" x 5" Mounted Frame

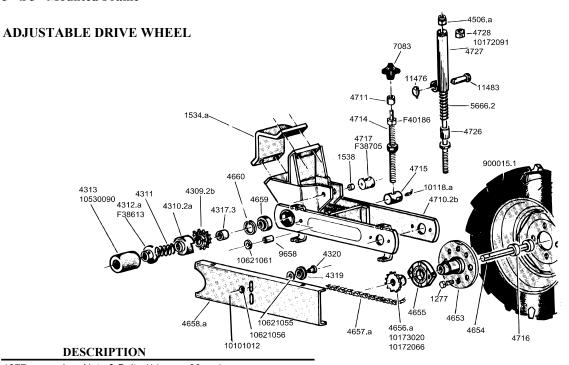
# TOOLBAR STAND HEX SHAFT, COUPLERS, BUSHING STOP FIXED DRIVE WHEEL



PART	DESCRIPTION	PART No.	DESCRIPTION
1277	Lug nut and bolt (14mm x 30mm)	4526	Bushing, inside 36 id x42 od x83 long
4306.a	Sprocket Drive Wheel, 13 Tooth, 1 3/8" Bore Uses	4527	Bushing, outside 36 id x42 od x7 long
4307.b	Chain Drive Wheel, 13N, 52 Links	4528	Clutch Sleeve
4308	Hub Spindle Drive Wheel	4529	Filler Bushing 30 id x35 od x14.25 long
4309.1b	Sprocket Slip clutch, LH, 13 Tooth	4540.1	Toolbar stand only
4309.2b	Sprocket Slip clutch, RH, 13 Tooth	4541	Bracket for toolbar stand
4310.1a	Claw Slip clutch, LH	4622	Pillow block, Special Wheel
4310.2a	Claw Slip clutch, RH	4661	Snap ring, Internal
4311	Spring Slip clutch	6904	Spring (R145)
4312.a	Bushing Stop for Spring Clutch, uses 8x12 Bolt	11456	Locking pin
4313	Housing Slip clutch, uses 6x10 Phillips Head	640838	Toolbar stand complete
4319	Chain Tightening Idler	900015.1	Wheel w/rim & 5.90x15 tire, complete
4320	Pin for Chain Tightener w/ 12mm nut	10101012	Locking Washer, 12 x 20 Ext. Tooth
4501	V bolt, 16mm	10172093	Roll Pin, 6 x 40
4505.1d	Wheel housing, left hand	10172094	Roll Pin, 6 x 45
4505.2d	Wheel housing, right hand	10502012	Bolt, 10 x 15
4514	Pillow Block Complete w/Bearing	10530090	Screw, phillips, 6 x 10
4514.1	Bearing Only (GAY 30NPPB)	10621031	Washer 13 x 24 x 1.5
4514.2	Pillow Block Only	10621056	Washer 13 x 30 x 6
4316.a	Sleeve, 35 id x44 od x35	10624062	Washer 36 x 58 x 1.5
4518.1	Front Guard Left Drive Wheel	AW51812	Rim Only 5.90x15
4518.2	Front Guard Right Drive Wheel	F38613	Bolt, 8 x 12
4520	Hexagon Drive Shaft, specify length	G170106152	Tire Only, 5.90 x 15
4521	Coupler, uses 6 x 40 roll pin	GTR-415	Stem Only
4523	Bushing Stop, 1", uses 10 x 15 bolt		
4523.1	Bushing Stop, with cross bolt		
4525	Bearing 60072RS		

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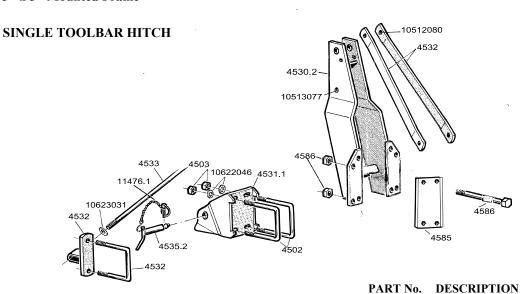
# 5" x 5" Mounted Frame



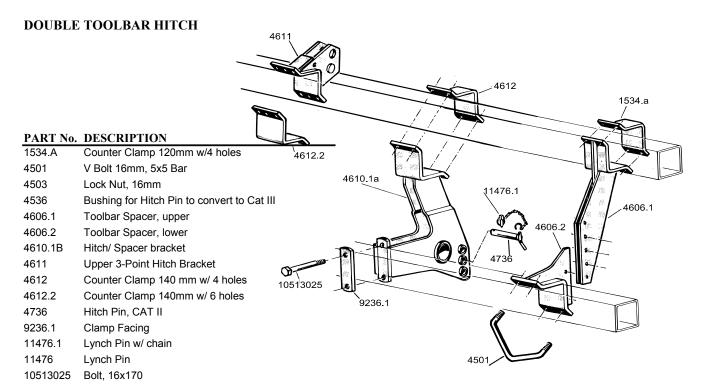
1277	Lug Nuts & Bolts (14mm x 30mm)		
1534.a	Counter Clamp, 120mm		DESCRIPTION
1538	Spacer bushing, 12 id x18 od x10mm long	4711	Spacer bushing, 20x 30x 25
4309.1b	Slipclutch Sprocket, LH, 13 Tooth (w/ 4310.1a)	4714	Threaded rod (standard adj)
4309.2b	Slipclutch Sprocket, RH, 13 Tooth (w/ 4310.2a)	4715	Threaded pivot pin
4310.1a	Claw Slipclutch, LH (C12A on casting)	4716	Spacer for spindle (8mm hex bore)
4310.2a	Claw Slipclutch, RH (C12B on casting)	4717	Pivot pin (takes 12x25 bolt)
4311	Spring Slipclutch	4726	Threaded shaft on spring loaded adj)
4312.a	Bushing & Spring Clutch (uses 8x12 bolt)	4727	Housing for spring and shaft
4313	Housing Slipclutch, uses 6x10 Phillips Head	4728	Hex nut, 20mm, w/ 6mm hole
4317.3	Hex Spacer, 33mm	5666.2	Spring
4319	Chain Tightening Idler	7083	Depth Control Handwheel
4320	Pin for Chain Tightener, w/ 12mm nut	9658	Bushing (7mm ID, 25mm long)
4467.d	Slipclutch Assembly complete	10118.a	Grease Zerk, 6mm, 45 degree
	(w/ 4309.2b & 4310.2a)	11476	Lynch Pin, 9mm Dia.
4467.g	Slipclutch Assembly complete	11483	Pin, 19mm Dia.
	(w/ 4309.1b & 4310.1a)	900015.1	Tire and Rim Assembly (5.90x15)
4506.a	20mm Nylon Locknut	AW51812	Rim Only
4653	Hub Drive Wheel, 8 Hole	G17010615	Tire Only
4654	Spindle, Hex shaped, for Collar	F38613	Bolt, 8x12
4655	Pillow Block Complete w/Bearing	F38705	Bolt, 12x25
4655.1	Bearing Only (S207NPPB)	F39210	Bolt, 12x50
4655.2	Pillow Block only	F40186	Hex Nut, 20mm
	(01LCTE 07 mark on cast housing)	10101012	External Tooth Locking Washer, 12x20
4656.a	Rear sprocket, 13T, hex bore, takes 8x40 roll pin	10172066	Roll Pin, 5x35
4657.a	Chain, 13N (66 links w/ conn link)	10172091	Roll Pin, 6x30
4658.a	Drive chain shield	10173020	Roll Pin, 8x40
4659	Bearing (205KRR2 ref. #)	10530090	Phillips Head Screw, 6x10
4660	Internal Snapring, 52mm	10621055	Washer, 13x30x5
4710.1b	Support frame, w/clutch to the right (since 1994)	10621056	Washer, 13x30x6
4710.2b	Support frame, w/clutch to the left (since 1994)	10621061	Washer, 13x40x4

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## 5" x 5" Mounted Frame



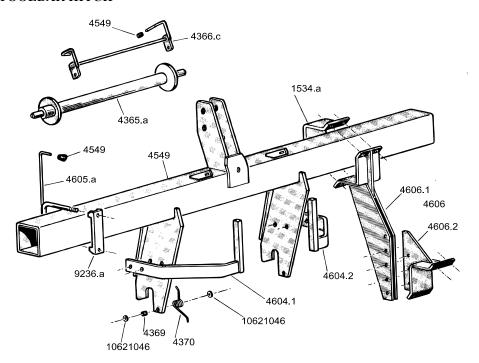
PART No.	. DESCRIPTION	4535.2	Hitch Pin, Cat. 2
4502	U Bolt, 16mm	4536	Bushing for Cat. 3
4503	Locking Nut, 16mm	4585	Reinforced Hitch Plate
4530.2	Heavy-duty Mast	4586	Bolt, 20x180mm
4531.1	Lower 3 Pt. Bracket, Left	4587	Bushing, 20 id x30 od x60mm long
4531.2	Lower 3 Pt. Bracket, Right	11476	Lynch Pin
4532	Straps, 3 Pt. Hitch	11476.1	Lynch Pin w/ Chain
4533	Tie Brace 3 Pt. Hitch	10512080	Bolt, 14 x 45mm
4534.1	Lefthand Brace Holder	10513077	Bolt, 20 x 100mm
4534.2	Righthand Brace Holder	10623031	Washer, 21 x 40 x 4mm
4535.1	Hitch Pin, Cat. 1	10622046	Washer, 17 x 30 x 4mm



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# 5" x 5" Mounted Frame

# ADVANCED TOOLBAR HITCH



## PART No. DESCRIPTION

TAKI NO.	DESCRIFTION
1534.a	Counter Clamp, 120mm, 4 Holes
4365.a	Hitch Bar, Semi-Automatic Hitch (A12)
4366.c	Locking Rod for Hitch Bar
4369	Sleeve Locking Rod
4370	Locking Spring
4549	Plastic Cap
4603.a	Upper Bar Advanced Hitch, 2.20m
4603.1a	Upper Bar Advanced Hitch, 2.60m
4604.1	Support Bracket Turbofan Left
4604.2	Support Bracket Turbofan Right
4605.a	Cable Guide Advanced Hitch
4606	Complete Toolbar Spacer
4606.1	Toolbar Spacer, Upper
4606.2	Toolbar Spacer, Lower
9236.a	Counter Clamp Facing
10621046	Washer, 13x27x2

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