Mechanical Transplanter

Parts List and Operating Manual

For Models 33 & 33-6000

10--Inside chain guard
11--63 Link direct drive chain
12--Direct tire & rim
14--Outside chain guard
15--Chain guard clip pin
18--Unit chain tightenr bracket
19--Chain tighter pipe bearing - short
22--Unit chain tightenr arm
22AL--Left axle for 22 planter
22AR--Right axle for 22 planter
23--Washer to hold spring
24--Chain tightenr pipe bearing - long
26--Pipe spacer
27--Sprocket jackshaft
30--Wheel chain tightenr pipe bearing
31--Drive frame of unit end
32--Wheel chain tightenr spring
32S--Steel drive chain (21 Links)
32F--Steel drive chain (per ft.)
33--Wheel chain tightenr arm
33P--Planter frame
35--Lift chain
38--Wheel hub w/sprocket
39--Drive frame of toolbar end
40--Left clamp less U-bolt
41--34 Link direct drive chain
42--Right clamp ess U-bolt
43--Bushing for clamp
44--Chain lift plate
48--Right 4x7 direct drive clamp
49--Left 4x7 direct drive clamp
51S--Steel drive chain (per ft.)
308--2" Washer for drive sprocket
313--1x41-1/2 Cotter pin
329--Pipe spacer between uprights
348--3/4" Lower shaft for 33-6000
349P--Lower shaft for Model 33
355--Lower sprocket
355T--Top sprocket for Model 33-6000
355DD--14 Tooth sprocket for direct drive
356--7/8" Packing wheel axle (before '90)
356C--Packer wheel axle cotter pin
362--Nylon bushing for lower shaft
373--Chain tightenr spring
374S--Pocket attachment link
375--Water trip
375W--Water trip washer
376--Tension spring (8 pocket)
379--Tension spring (10 & 12 pocket)
378S--Chain for 6 pocket chain
378S--Chain for 8 pocket chain
378S--Chain for 10 pocket chain
378S--Chain for 12 pocket chain
378--5/16" U-bolt
379--Upper conveyor sprocket
380--Upper sprocket shaft
380T--Top sprocket shaft (after 1992)
381--6--8 Tooth spacing sprocket
381--7 Tooth spacing sprocket
381I--7 Tooth idler sprocket
382--8 Tooth spacing sprocket
383--9 Tooth spacing sprocket
384--10 Tooth spacing sprocket
385--11 Tooth spacing sprocket
386--Direct drive (drawbar) shaft
386P--Shaft clip pin
387--Marker blade
392--Hose Clamp
393--Hose nipple
394--Water hose 1" (per ft.)
396D--Disc less pockets for 8 or 10 pockets
396D--Disc less pockets for 12 pockets
397--Disc less pockets for 12 pockets
407--Roller water trip
408--Dirt shield
415--Sprocket drive pins
415L--Longer sprocket pin
416--3/4" Olieve bearing
416R--3/4" Reamed out bearing for coulters
419--1/2" Pin for 420R & 421L tightenrs
420R--Chain tightenr RH
421L--Chain tightenr LH
422--Yoke for marker pipe
423--Spring hook for markers
428--Top bracket for uprights
434--7/8" Olieve wheel bearing
436B--L-bolt for pocket guides
436DL--Disc pocket guides (pair)
436RL--Reg. Pocket guides (pair)
438FL--Model 33-6000 guides
445--Double neoprene gripper
450--Pocket frame
452--Pocket attaching bolt
452D--Bolt to attach pocket to #396 disc
453--1/4x2" Upright after 1992
454--Galvanized spring holder
460N--Floating clamp for #22C
460N--Floating clamp for 4x7
460N--Floating clamp for 4x7
461--Water trip
462--11 Tooth wheel sprocket
462--11 Tooth wheel sprocket
465--Shoe for peat pot planter
467--Peat pot pocket
467--Peat pot pocket spring
468--Peat pot pocket extension
469--Bolt for pocket extension
482--Nut for pocket extension
482W--Washer for pocket extension
520--Chain tightenr arms
521--Roll pin
522--Clip pin
523--Clevis pin for 520 arm
524--Cotter pin
529--Frame blade (ea)
529W--Wide wheel scraper blade
529WP--Wide wheel scraper plastic only
530--Scrapo mounting bracket
533--Wheel scraper complete
600--Water valve complete
602--1-1/4" U-bolt (before '88)
602--1-1/4" U-bolt (before '88)
602--1-1/4" U-bolt (before '88)
602--1-1/4" U-bolt (after 1988)
602C--U-bolt clamp
603--Water valve rocker & cam
603W--Washer for water cam spring
603D--#603 for pocket disc
604--Water adjustment bracket (before '88)
604--Water adjustment bracket (after '88)
605--Water trip rod
605L--Water trip rod and ball (after 2000)
606--1-1/4" Valve housing w/tee (before '88)
606--1-1/2" Water pump housing (after '88)
607--Water trip spring (before '88)
607L--Long water trip spring
609--Cap w/rubber seal (before '88)
609--Cap w/rubber seal (after '88)
610--Air valve float ball (before '88)
610S--Solid air valve float ball
611--Nylon water valve seat
612--Ball valve with brass pin (before 2000)
612L--Ball valve w brass pin (after 2000)
613--Water valve spout
616--603S Cam spring before '88
616S--603 Cam spring to use with 603W
630--55 Gallon barrel hop (each)
632--14" Coulter blade w/bearing
632C--12" Coulter blade with hub
633--Coulter blade hub
633PS--Coulter pipe spacer (3-5/8"
633PS--Coulter pipe spacer (4-3/4"
634--Cultivator tooth only
634U--Cultivator U-bolt
635--Cultivator/gauge wheel clamp
637--Fiberglass seat bracket
639--Adjustable packing wheel & hub
639AH--Adjustable packing wheel hub
639AH--Adjustable packing wheel hub
639AH--Adjustable packing wheel hub
639WL--Wide adjustable packing wheel i/hub
639HDD--Direct drive adjustable hub
641--Wide plant stand (each)
642--Plastic cover for #605
643--Clamps for row knockers
643--Clamps for row knockers
649--Rear Shoe Brace for 395R
649F--Front Shoe Brace for 395R
649D--Diagonal Shoe Brace for 395R
658--Row Knocker Blade Only
659--OE 65 bracket only
661--Left side arm of OE-71
662--Right side arm of OE-71
668--8855 barrel mount base bracket
668T--Barrel mount saddle
669--8850 barrel mount base bracket
679--OE 85 1000 Bracket Only
679--Rear for peat pot planter
676--"T" support for tray
677--Bracket for tray support and scraper
715--3/8" U-bolt for D.D. and coulters
725--1/2" U-Bolt for OE-78 Clamps & Cult.
726--L Seat Bracket (after 1983)
726U--1/2" U-bolt for toolbar clamps
727--1/2" U Bolt for L-Seat Bracket
735--3/4" U Bolt for 460N Clamp
740--1-1/8" U Bolt for Foot Knees, 1000 & 6000
837L/5-1/8" Lg. J-Bolt for foot rest & 800
1000AL--Axle for #1000 - Left Side
1000AR--Axle for #1000 - Right Side
1000BD--Double Disc Bearing(before 1902)
1000BD--Double Disc Bearing(after 1902)
Model 33
### CHAIN SPACING CHART FOR REAR DRIVE UNITS

<table>
<thead>
<tr>
<th>No. of teeth on sprocket</th>
<th>7</th>
<th>8</th>
<th>9</th>
<th>10</th>
<th>11</th>
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</thead>
<tbody>
<tr>
<td>No. of pockets on chain</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10 Pockets</td>
<td>12&quot;</td>
<td>14&quot;</td>
<td>16&quot;</td>
<td>18&quot;</td>
<td>20&quot;</td>
</tr>
<tr>
<td></td>
<td>30.48cm</td>
<td>35.56cm</td>
<td>40.64cm</td>
<td>45.72cm</td>
<td>50.8cm</td>
</tr>
<tr>
<td>8 Pockets</td>
<td>16&quot;</td>
<td>18&quot;</td>
<td>20&quot;</td>
<td>22&quot;</td>
<td>24&quot;</td>
</tr>
<tr>
<td></td>
<td>40.64cm</td>
<td>45.72cm</td>
<td>50.8cm</td>
<td>55.88cm</td>
<td>60.96cm</td>
</tr>
<tr>
<td>6 Pockets</td>
<td>20&quot;</td>
<td>22&quot;</td>
<td>24&quot;</td>
<td>26&quot;</td>
<td>28&quot;</td>
</tr>
<tr>
<td></td>
<td>50.8cm</td>
<td>55.88cm</td>
<td>60.96cm</td>
<td>66.04cm</td>
<td>71.12cm</td>
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<tr>
<td>5 Pockets</td>
<td>24&quot;</td>
<td>28&quot;</td>
<td>32&quot;</td>
<td>36&quot;</td>
<td>40&quot;</td>
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<tr>
<td></td>
<td>60.96cm</td>
<td>71.12cm</td>
<td>81.28cm</td>
<td>91.44cm</td>
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<td>32&quot;</td>
<td>36&quot;</td>
<td>40&quot;</td>
<td>44&quot;</td>
<td>48&quot;</td>
</tr>
<tr>
<td></td>
<td>81.28cm</td>
<td>91.44cm</td>
<td>101.6cm</td>
<td>111.76cm</td>
<td>121.92cm</td>
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<td>44&quot;</td>
<td>48&quot;</td>
<td>52&quot;</td>
<td>56&quot;</td>
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<tr>
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<td>101.6cm</td>
<td>111.76cm</td>
<td>121.92cm</td>
<td>132.08cm</td>
<td>142.24cm</td>
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<td>2 Pockets</td>
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<td>72&quot;</td>
<td>80&quot;</td>
<td>88&quot;</td>
<td>96&quot;</td>
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<tr>
<td></td>
<td>162.56cm</td>
<td>182.88cm</td>
<td>203.2cm</td>
<td>223.52cm</td>
<td>243.84cm</td>
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</table>

Use for Models 22, 22C, 33, 122, 222, & CT-5

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### SPACING CHART FOR DIRECT DRIVE UNIT W/ 12 POCKET CHAIN

<table>
<thead>
<tr>
<th>Sprocket on OUTSIDE of Jackshaft</th>
<th>Sprocket on INSIDE of Jackshaft</th>
<th>Number of Teeth on Sprocket on Unit</th>
</tr>
</thead>
<tbody>
<tr>
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<td>Sprocket on INSIDE of Jackshaft</td>
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<td></td>
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<td>15.2cm</td>
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<tr>
<td>7</td>
<td>7</td>
<td>9&quot;</td>
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<tr>
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</tr>
<tr>
<td>8</td>
<td>7</td>
<td>10-1/2&quot;</td>
</tr>
<tr>
<td></td>
<td></td>
<td>26.7cm</td>
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<tr>
<td>9</td>
<td>7</td>
<td>12&quot;</td>
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<td>11</td>
<td>7</td>
<td>15&quot;</td>
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<tr>
<td></td>
<td></td>
<td>38.1cm</td>
</tr>
</tbody>
</table>

Double any of the above spacings by using every other pocket (6 pocket).
Make sure HITCH and UNIT are level or parallel to the ground when planting.

Use for Models 1000 & 33-6000

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**SP-V3 SPACING BAR SUPPORT**
For a 12 pocket chain being used as 6 pocket chain (Model 1000)
8 pocket disc (shown above with V-3 style pockets), 10 pocket, and 12 pocket disc available.

**DISC SPACING CHART FOR REAR DRIVE UNITS**

<table>
<thead>
<tr>
<th>No. of teeth on sprocket</th>
<th>7</th>
<th>8</th>
<th>9</th>
<th>10</th>
<th>11</th>
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</thead>
<tbody>
<tr>
<td>24 R-2 Pockets</td>
<td></td>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td>No. of pockets on disc</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>20 R-2 Pockets</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>16 R-2 Pockets</td>
<td></td>
<td></td>
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<td></td>
<td></td>
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<tr>
<td>12 V-3 Pockets</td>
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<td></td>
</tr>
<tr>
<td>10 V-3 Pockets</td>
<td></td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>8 V-3 Pockets</td>
<td></td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6 V-3 Pockets</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>5 V-3 Pockets</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>4 V-3 Pockets</td>
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<td></td>
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</tr>
<tr>
<td>3 V-3 Pockets</td>
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<td></td>
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<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>No. of pockets on disc</th>
<th>Sets</th>
<th>Sets</th>
<th>Sets</th>
<th>Sets</th>
<th>Sets</th>
</tr>
</thead>
<tbody>
<tr>
<td>2'</td>
<td>5.08cm</td>
<td>6.35cm</td>
<td>7.62cm</td>
<td>8.89cm</td>
<td>10.16cm</td>
</tr>
<tr>
<td>2-1/2'</td>
<td></td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>3'</td>
<td>7.82cm</td>
<td>8.89cm</td>
<td>10.16cm</td>
<td>11.43cm</td>
<td>12.7cm</td>
</tr>
<tr>
<td>3-1/2'</td>
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<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4'</td>
<td>10.16cm</td>
<td>11.43cm</td>
<td>12.7cm</td>
<td>13.97cm</td>
<td>15.24cm</td>
</tr>
<tr>
<td>4-1/2'</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5'</td>
<td>11.43cm</td>
<td>12.7cm</td>
<td>13.97cm</td>
<td>15.24cm</td>
<td>18.51cm</td>
</tr>
<tr>
<td>5-1/2'</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6'</td>
<td>13.97cm</td>
<td>15.24cm</td>
<td>18.51cm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6-1/2'</td>
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</tr>
<tr>
<td>7'</td>
<td>15.87cm</td>
<td>17.78cm</td>
<td>19.885cm</td>
<td>21.59cm</td>
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<tr>
<td>7-1/4'</td>
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<td></td>
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</tr>
<tr>
<td>8'</td>
<td>17.78cm</td>
<td>19.885cm</td>
<td>21.59cm</td>
<td>23.495cm</td>
<td>25.4cm</td>
</tr>
<tr>
<td>8-1/2'</td>
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<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>9'</td>
<td>22.86cm</td>
<td>25.4cm</td>
<td>27.94cm</td>
<td>30.48cm</td>
<td>33.02cm</td>
</tr>
<tr>
<td>9-1/4'</td>
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<td></td>
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<td></td>
</tr>
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<td>10'</td>
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<td>31.75cm</td>
<td>35.56cm</td>
<td>39.37cm</td>
<td>43.18cm</td>
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<tr>
<td>11'</td>
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</tr>
<tr>
<td>12'</td>
<td>35.56cm</td>
<td>39.37cm</td>
<td>43.18cm</td>
<td>46.99cm</td>
<td>50.8cm</td>
</tr>
<tr>
<td>12-1/2'</td>
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<tr>
<td>14'</td>
<td>45.72cm</td>
<td>50.8cm</td>
<td>55.88cm</td>
<td>60.96cm</td>
<td>66.04cm</td>
</tr>
<tr>
<td>14-1/2'</td>
<td></td>
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</tbody>
</table>

Use for Models 122, 22, 22C, 222, 33, SU-3, & 500
**Optional Equipment**

**OE-71 Toolbar Cultivator**
for all single and multi-row units

**OE-65-1000 Single Disc Opener Assembly**
for the Model 33-6000

**B850 Toolbar Barrel Mount**
for non Direct Drive units  
(Model 22C & 122)

**B855 Toolbar Barrel Mount**
for Direct Drive units  
(Model 1000)

**OE-66T Row Knocker**
for 2-1/2” diamond toolbar  
**OE-66 4x7 Row Knocker**
for 4x7” toolbar

**OE-78 Toolbar Gauge Wheels**

**MT-A A Frame Hitch**
General Operating and Maintenance Instructions

REGULATING PLANT SETTING DEPTH: All new operators should take care to see that the plants are placed well down in the pockets so that the plant is held firmly. The depth for setting of plants can be regulated by the distance that root is extended out of the pocket.

CHAIN UNITS: Make sure the upper conveyor sprocket isn't over tightened, causing the chain to become stretched between the upper and lower sprockets. This will put unnecessary friction on the unit perhaps causing the packing wheels to slip on rear drive units. Tighten the wing nuts equally so the chain runs level.

ADJUSTING AND SETTING SHOE: Whenever any adjustment is made, be sure to get the shoe directly square and straight in front of the opening of the wheels so the pockets travel through the middle of the shoe. The shoe can be adjusted ahead or back with brace fastened on the right side of the unit frame. In loose, dry soil, the shoe should be set back and closer to the packing wheels or ahead and away from the packing wheels in heavy, wet soil. KEEP SHOE CLEAN at all times. Don't allow soil to build up on sides or inside the shoe as this will cause the shoe to make a wider furrow, and the packing wheels will be unable to bring the soil back in around the plants. It may be necessary to add a counter to the unit to cut this trash if it's a problem. Also, make sure the soil is worked deeper than the penetrating depth of the shoe. Hard pan soil under the shoe will cause the unit to ride up and lose its traction.

CAUTION: PULL UNIT FORWARD ONLY. Backing up causes damage to pockets and can plug shoe up with dirt.

ADJUSTING WATER VALVE: The water valve has a ball check tripped from below. The reservoir allows water supply to build up between plants. There is a float in the top of this reservoir to automatically close when filled. This air allows water to drop quickly as it is tripped by each plant. The AMOUNT OF WATER IS CONTROLLED BY SIMPLY ADJUSTING THE BALL VALVE to regulate the amount of water you want by each plant. Be careful, too much water in dry fluffy soil can cause the plant to float to the top of the furrow. The rocker arm and cam which is bolted onto frame of planter for tripping valve has a slot in it for adjusting timing of water. When rocker is moved up, the water will trip sooner. When moved down, it will trip later.

AIR VALVE FLOAT: Once each season the cap at the top of valve should be removed to check condition of the air valve float. This small ball can be floated to the top with water or pulled out with a piece of wire for inspection. This float is the critical to the operation of this valve. It and the rubber at the top should be replaced if not in good condition.

INSTALLING NEW BOTTOM CHECK BALL: Remove the valve from planter. Then remove bottom spout and the adjustable slide on trip rod. Unscrew plastic seat from tee. New check ball with stem can then be inserted. Do not tighten nut on stem completely, but leave enough play for the ball to wobble, allowing it to self center itself in the plastic seat.

MAKE SURE THE WATER IS DRAINED OUT OF THE VALVE AT THE END OF EACH SEASON OR IT WILL FREEZE AND DESTROY THE INSIDE OF THE VALVE!

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Float Wheel Direct Drive Operating Instructions
For Models 1000, 525, 550, & 33-6000

Run the float wheel with only 4 to 5 pounds of pressure during operation. Plant spacing can be changed slightly by increasing or decreasing the tire pressure.

Be sure to run the planting unit level with the soil. Then check that the toolbar is in the middle of the hitchso that frame members #23 and #20 are STRAIGHT IN LINE. Do not run the front frame (#20) up as this will take weight off from the wheel. For toolbars that are not adjustable for height you may have to use the lower holes on the front clamp plates to get the frame to run straight.

The hitch and wheel will float freely and sense uneven soil conditions if set properly. DO NOT TIGHTEN LIFT CHAINS. They must be loose when planting. If you can not lift the units high enough, raise the lower arms on your tractor by cranking them up. Do not tighten the chains.

For some unusual spacings, an extra link or two may be added to the drive chains.

If more weight is needed on the back of the unit for proper packing, use the optional OE-73 weight bracket.
Safety Precautions

1. Make sure tractor is stopped and in neutral with the transplanter lowered to the ground before getting on and off the unit.
2. No operator is allowed to be on the unit as it is raised and lowered.
3. No operator is allowed on the transplanter as it is transported to or from the field.
4. All operators must be seated before movement begins and remain seated until the transplanter is completely stopped.
5. Never leave the transplanter in the raised position.
6. Keep all shields and guards in place when operating the transplanter.
7. Never attempt repairs or maintenance while the transplanter is in motion.
8. Never put the tractor in reverse while the transplanter is on the ground.
9. Follow all safety instructions supplied by the tractor manufacturer to which the transplanter is mounted.

MACHINE IMPROVEMENTS
MECHANICAL TRANPLANTER CO. IS ALWAYS STRIVING TO MAKE IMPROVEMENTS ON THEIR LINE OF EQUIPMENT. MECHANICAL TRANPLANTER CO. RESERVES THE RIGHT TO MAKE IMPROVEMENTS AND CHANGES AT ANY TIME WITHOUT INCURRING OBLIGATIONS TO MAKE SUCH CHANGES OR ADDITIONS TO EQUIPMENT PREVIOUSLY SOLD.

Limited Warranty

Mechanical Transplanter Company warrants each item of new equipment manufactured by Mechanical to be free from defects in material and workmanship under normal use and service.

The obligation of Mechanical Transplanter Company under this LIMITED WARRANTY is limited to repairing or replacing as Mechanical may elect, and any parts that prove, in Mechanical's judgment, to be defective in material and workmanship within the first season's use or 45 consecutive days after initially placing equipment in operation, whichever occurs first. Any outside work or alterations without Mechanical's written approval will render the LIMITED WARRANTY void.

Mechanical's obligation specifically excludes any liability for consequential damages, such as loss of profits, delays, expenses, damage to goods or property used in connection with or processed in or by the product sold, or damage to the product sold from whatsoever cause, whether or not such loss is due to negligence of selling dealer of Mechanical Transplanter Company.

This limited warranty shall not apply to any item or machine which shall have been operated in a manner not recommended by the Company nor which shall have been repaired, altered, misused, damaged in an accident, neglected, tampered with or used in any way which in the Company's opinion adversely affects its performance and results.

No person is authorized to give any other warranties or to assume any other liability on behalf of Mechanical Transplanter Company, unless made in writing by Mechanical.

This limited warranty covers repair or replacement of Mechanical Transplanter Co. equipment only and does not cover crop loss, downtime, labor, damage to other equipment, etc.

This limited warranty does not apply to exterior finishes, tires, chain links, bearings, or any other items sold by Mechanical Transplanter Co., but warranted by the original manufacturer except to the extent of their individual manufacturer's warranty.

THIS LIMITED WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WARRANTIES OF MERCHANTABILITY AND FITNESS FOR PARTICULAR PURPOSE ARE EXCLUDED, AS ARE ALL OTHER REPRESENTATIONS TO THE USER-PURCHASER, AND ALL OTHER OBLIGATIONS OR LIABILITIES, INCLUDING LIABILITY FOR INCIDENTAL AND CONSEQUENTIAL DAMAGES, ON THE PART OF MECHANICAL OR THE SELLER.

Mechanical Transplanter Company, LLC
1150 Central Avenue *Holland, Michigan 49423
Phone: 616-396-8738 or 800-757-5268 Fax: 616-396-3619
www.mechanicaltransplanter.com mtc@mechanicaltransplanter.com