Mechanical Transplanter
Parts List and Operating Manual
For Models 22, 22C, 122, 222, 1000, and the Float Wheel Direct Drive System

10—Inside chain guard
11—63 Link direct drive chain
12—Direct tire & rim
14—Outside chain guard
15—Chain guard clip pin
16—3/8" U-bolt w/nuts
18—Unit chain tighten bracket
19—Chain tighter pipe bearing - short
22—Unit chain tighten arm
22AL—Left axle for 22 planter
22AR—Right axle for 22 planter
23—Washer to hold spring
24—Chain tighter pipe bearing - long
26—Pipe spacer
27—Sprocket jackshaft
30—Wheel chain tighter pipe bearing
31—Drive frame of unit end
32—Wheel chain tighter spring
32S—Steel drive chain (21 Links)
32F—Steel drive chain (per ft)
33—Wheel chain tighter arm
35—Lift chain
35S—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
45—Left 4x7 direct drive clamp
46—Right 4x7 direct drive clamp
47—Plate for 4x7 direct drive clamp
51S—Steel drive chain (per ft)
328—3/4" Flange block bearing
329—Pipe spacer between uprights
334S—Guide for pocket (disc)
347—3/4" Lower sprocket shaft before 1983
348—3/4" Shaft w/4 holes (rear drive)
348DD—3/4" Lower shaft for direct drive
355—Lower sprocket
355T—Top sprocket for Model 1000
355DD—14 Tooth sprocket for direct drive
356—7/8" Packing wheel axle (Loire "90")
356C—Packer wheel axle cotter pin
362—Nylon bushing for lower shaft
373—Chain tighter spring
374S—Pocket attachment link
375—Water trip
375W—Water trip washer
375S—Tension spring (8 pocket)
375S—Tension spring (10 & 12 pocket)
377S—Chain for 8 pocket chain
377S—Chain for 10 pocket chain
377S—12—Chain for 12 pocket chain
379—Upper conveyer sprocket
380—Upper sprocket shaft
380T—Top sprocket shaft (after 1992)
381—6-6 Tooth spacing sprocket
381—7 Tooth spacing sprocket
382—8 Tooth spacing sprocket
383—9 Tooth spacing sprocket
384—10 Tooth spacing sprocket
385—11 Tooth spacing sprocket
386—Shaft clip pin
386—Direct drive (drawbar) shaft
387—Marker blade
392—Hose Clamp
393—Hose nipple
394—Water hose 1" (per ft)
395—Blunt point 7/16" point
395—6"-6" Round point shooe
395—8"-8" Round point shoe
395—8P—Poly 8" shoe
395—9R-9" Round point shoe
395—CTSSP—Shoe point for CT, 4, CT-5 & CT-8
395R—7" Round point shoe
395RP—Poly 7" shoe
395RPK—Poly kit for round point shoe
396—10-10 Pocket disc (with 407's)
396—1-2 Pocket disc (with 407's)
396—6-8 Pocket disc (with 407's)
396D—Disc less pockets for 8 or 10 pockets
396D—12-Disc less pockets for 12 pockets
400—24"-24" Corrugated hose
400—36"-36" Corrugated hose
407—Roller water trip
407—Roller water trip
411—R-2 spring assembly
411S—Spring for R-2 spring
415—Sprocket
415L—Longer sprocket pin
416—3/4" Oilite bearing
416R—3/4" Reme out bearing for coulter
419—1/2" Pin for 420R & 421L tighteners
420—Chain tighter RH
421—Chain tighter LH
422—Yoke for marker pipe
423—Spring hook for markers
424—Upper sprocket bearing
428—Top bracket for uprights
430—Sprocket and bracket
433—Wheel scraper complete
436—7/8" Oilite wheel bearing
436—Guage wheel bearing
436B—L-bolt for pocket guides
436DR—Disc pocket guides (pair)
436RL—Reg. pocket guides (pair)
436RLX—Model 1000 guides
440—Spring with rollers
445—Double neoprene belt
450—Pocket frame
452—Pocket attaching bolt
452D—Bolt to attach pocket to #396 disc
453—1/4"x2" Upright after 1992
454—Galvanized spring holder
460—Floating clamp for #22C
460N—Floating clamp for #22C
460N—4x7 Floating clamp for 4x7
460R—Floating clamp for #22
461—U-bolt for wheel sprocket
462—11 Tooth wheel sprocket
467—Hitch pin w/clip pin
471—1 1/4" Tank hose for #800
471R—471D Hose reducer on Model 800
482—Cube extension for pocket
492—Scraper mounting bracket
500—Wheel scraper complete
500—Water valve parts
502C—Tightener conversion kit
521—Roll pin
522—Clip pin
523—Clip pin for 520 arm
524—Cotter pin
529—Scraper blade (ea)
529WP—Wide wheel scraper blad
529WP—Wide wheel scraper plastic only
530—Water valve complete
502—1-1/4" U-bolt before '88
502—8x9-1/4 U-bolt with nuts (after '88)
502C—U-bolt clamp
503—Water valve rocker & cam
503W—Washer for water cam spring
503D—603 for pocket disc
504—Water adjustment bracket before '88
504—9-Water adjustment bracket (after '88)
505L—Water trip rod (after 2000)
505L—1/4" Valve housing w/tee before '88
506—8-9/12" Water pump housing after '88
507—Water trip spring before '88
507L—Long water trip spring
508—1-1/4" Cap w/air vent
509—Cap w/rubber seat before '88
509—Air valve float ball before '88
510—Air valve float ball after '88
511—Nylon water valve seat
512—Ball with brass pin (after 2000)
512L—Ball with brass pin (after 2000)
513—Water valve spout
514—Brass air vent before '88
516—603 Cam spring before '88
516S—603 Cam spring to use with 603W
530—60 Gallon barrel hook (each)
532—14" Coupler blade w/bracket
532—12-12" Coupler blade with hub
533—Coupler blade hub
533PS—Coupler pipe spacer (3-5/8"
534—Cultivator tooth only
534U—Cultivator U-bolt
535—Cultivator/gauge wheel clamp
537—Fiberglass seat bracket
538—Jack for trailer tongues
539—Packing wheel w/sprocket
539L—Direct drive packing wheel w/sprocket
539W—Wide packing wheel w/sprocket
539A—Adjustable packing wheel & hub
539AH—Adjustable packing wheel hub
539AL—Adjustable packing wheel hub
539WAL—Wide adjustable packing wheel hub
539AHDD—Direct drive adjustable hub
540—Wide plant box (16") (each)
540N—Narrow plant box (13") (each)
541—Wide plant stand (each)
541N—Narrow plant stand
542—Plastic cover for #605
543—Clamps for row knockers
543X—Clamp for 4x7 row knocker
543T—Clamp for 2-1/2 row knocker
549R—Rear Shoe Brace for 355R
549F—Front Shoe Brace for 359R
549D—Diagonal Shoe Brace for 359R
494D—Diagonal Shoe Brace for Double Disc
654—604 Roller Assembly
658—Row Knocker Blade Only
659—OE 65 bracket only
660—OE 64 bracket only
661—Left Side Arm of OE 71
662—Right Side Arm of OE 71
663—Left Bracket for OE 78
664—Right Bracket for OE 78
Model 22, 22C, 122 & 222
Model 1000
V3 Style Pockets

The V3-6 and SP-6 are used on 6 pocket chains.  The V3-8 and SP-8 are used on 8 pocket chains.  The V3-10 and SP-10 are used on 10 and 12 pocket chains.  The V3-D is used on disc units or used to replace pockets that do not need new spacing bars.

6, 8, or 10 pocket chains are used on Models 22, 22C and 122. These models are driven off from the rear packing wheels.

12 pocket chains (pictured on left) are used on the Model 1000 which is driven from the front Direct Drive drive.

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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<tbody>
<tr>
<td>10 Pockets</td>
<td></td>
<td></td>
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<td></td>
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<tr>
<td>Sets</td>
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<td>35.56cm</td>
<td>40.64cm</td>
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<td>8 Pockets</td>
<td>16”</td>
<td>18”</td>
<td>20”</td>
<td>22”</td>
<td>24”</td>
</tr>
<tr>
<td>6 Pockets</td>
<td>20”</td>
<td>22”</td>
<td>24”</td>
<td>26”</td>
<td>28”</td>
</tr>
<tr>
<td>5 Pockets</td>
<td>24”</td>
<td>26”</td>
<td>28”</td>
<td>30.12cm</td>
<td>32”</td>
</tr>
<tr>
<td>4 Pockets</td>
<td>32”</td>
<td>36”</td>
<td>40”</td>
<td>44”</td>
<td>48”</td>
</tr>
<tr>
<td>3 Pockets</td>
<td>40”</td>
<td>44”</td>
<td>48”</td>
<td>52”</td>
<td>56”</td>
</tr>
<tr>
<td>2 Pockets</td>
<td>64”</td>
<td>72”</td>
<td>80”</td>
<td>88”</td>
<td>96”</td>
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</table>

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

R2 STYLE POCKET

- Specify Number of Pocket on Unit.
- DR-2, 6R-2, 8R-2, 10R-2, were used on units prior to 1961.
- 24R-2 are currently used on Model 500 & 525 Bed Planter Units.

SPACING CHART FOR DIRECT DRIVE UNIT W/ 12 POCKET CHAIN

<table>
<thead>
<tr>
<th>Sprocket on OUTSIDE of Jackshaft</th>
<th>7</th>
<th>8</th>
<th>9</th>
<th>10</th>
<th>11</th>
</tr>
</thead>
<tbody>
<tr>
<td>sprocket on INSIDE of Jackshaft</td>
<td>7</td>
<td>8</td>
<td>9</td>
<td>10</td>
<td>11</td>
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</tr>
<tr>
<td>Number of Teeth on Sprocket on Unit</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>11</td>
<td>6&quot;</td>
<td>15.2cm</td>
<td>6-1/2&quot;</td>
<td>17.8cm</td>
</tr>
<tr>
<td>7</td>
<td>7</td>
<td>7</td>
<td>9&quot;</td>
<td>22.8cm</td>
<td>10-1/2&quot;</td>
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<tr>
<td>8</td>
<td>7</td>
<td>10-1/2&quot;</td>
<td>26.7cm</td>
<td>12-1/2&quot;</td>
<td>31.7cm</td>
</tr>
<tr>
<td>9</td>
<td>7</td>
<td>12&quot;</td>
<td>30.5cm</td>
<td>13-1/2&quot;</td>
<td>34.3cm</td>
</tr>
<tr>
<td>10</td>
<td>7</td>
<td>13&quot;</td>
<td>33cm</td>
<td>14&quot;</td>
<td>35.5cm</td>
</tr>
<tr>
<td>11</td>
<td>7</td>
<td>15&quot;</td>
<td>38.1cm</td>
<td>18&quot;</td>
<td>45.7cm</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
445C Gripper Clip
Eliminates gap at the V of the gripper for small stemmed plants.
Requires two clips per pocket.

8 pocket discs (shown above), 10 pocket, and 12 pocket discs use the V3 style pocket.
16, 20 and 24 pocket discs use the R2 style pocket.

482 Cube Extension for cell type plants.
Consists of the U-shaped spring wire, washer, bolt and nut.

SP-V3 SPACING BAR SUPPORT
For a 12 pocket chain being used as 6 pocket chain (Model 1000)

<table>
<thead>
<tr>
<th>DISC SPACING CHART FOR MODELS W/ DIRECT DRIVE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sprocket on OUTSIDE of Jackshaft</td>
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<tr>
<td>-----------------------------------------------</td>
</tr>
<tr>
<td>7</td>
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<td>10</td>
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<td>11</td>
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</table>

Use for Models 525, 1000, & 33-6000 with disc mounted pockets

Disc Spacing Chart for Rear Drive Units

<table>
<thead>
<tr>
<th>No. of teeth on sprocket</th>
<th>No. of pockets on disc</th>
<th>7</th>
<th>8</th>
<th>9</th>
<th>10</th>
<th>11</th>
</tr>
</thead>
<tbody>
<tr>
<td>24 R-2 Pockets</td>
<td>Sets</td>
<td>Sets</td>
<td>Sets</td>
<td>Sets</td>
<td>Sets</td>
<td>Sets</td>
</tr>
<tr>
<td>7 2&quot;</td>
<td>5.08 cm</td>
<td>6.35 cm</td>
<td>7.62 cm</td>
<td>8.99 cm</td>
<td>10.16 cm</td>
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</tr>
<tr>
<td>8 3&quot;</td>
<td>7.62 cm</td>
<td>8.89 cm</td>
<td>10.16 cm</td>
<td>11.43 cm</td>
<td>12.7 cm</td>
<td></td>
</tr>
<tr>
<td>9 4&quot;</td>
<td>10.16 cm</td>
<td>11.43 cm</td>
<td>12.7 cm</td>
<td>13.97 cm</td>
<td>15.24 cm</td>
<td></td>
</tr>
<tr>
<td>10 5&quot;</td>
<td>13.97 cm</td>
<td>15.24 cm</td>
<td>16.51 cm</td>
<td>18.78 cm</td>
<td>20.05 cm</td>
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</tr>
<tr>
<td>12 6&quot;</td>
<td>16.51 cm</td>
<td>18.78 cm</td>
<td>20.05 cm</td>
<td>21.32 cm</td>
<td>22.59 cm</td>
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<tr>
<td>16 7&quot;</td>
<td>20.05 cm</td>
<td>21.32 cm</td>
<td>22.59 cm</td>
<td>23.86 cm</td>
<td>25.13 cm</td>
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<tr>
<td>20 8&quot;</td>
<td>22.59 cm</td>
<td>23.86 cm</td>
<td>25.13 cm</td>
<td>26.4 cm</td>
<td>27.53 cm</td>
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<tr>
<td>12 V-3 Pockets</td>
<td>Sets</td>
<td>Sets</td>
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Use for Models 122, 22, 22C, 222, 33, SU-3, & 500
Optional Equipment

OE-65 Single Disc Opener Assembly for Models 22C & 122

OE-65-1000 Single Disc Opener Assembly for the Model 1000

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

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

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

OE-66T Row Knocker for 2-1/2" diamond toolbar

OE-664x7 Row Knocker for 4x7" toolbar

OE-78 Toolbar Guage 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 trash in front of 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 coulter 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 easily 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!

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 hitch so that frame members #23 and #20 are STRAIGHT IN LINE. Do not run the front frame (#20) up as this will take weight off of 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 TRANSP PlanTER CO. IS ALWAYS STRIVING TO MAKE IMPROVEMENTS ON THEIR LINE OF EQUIPMENT. MECHANICAL TRANSP PlanTER 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