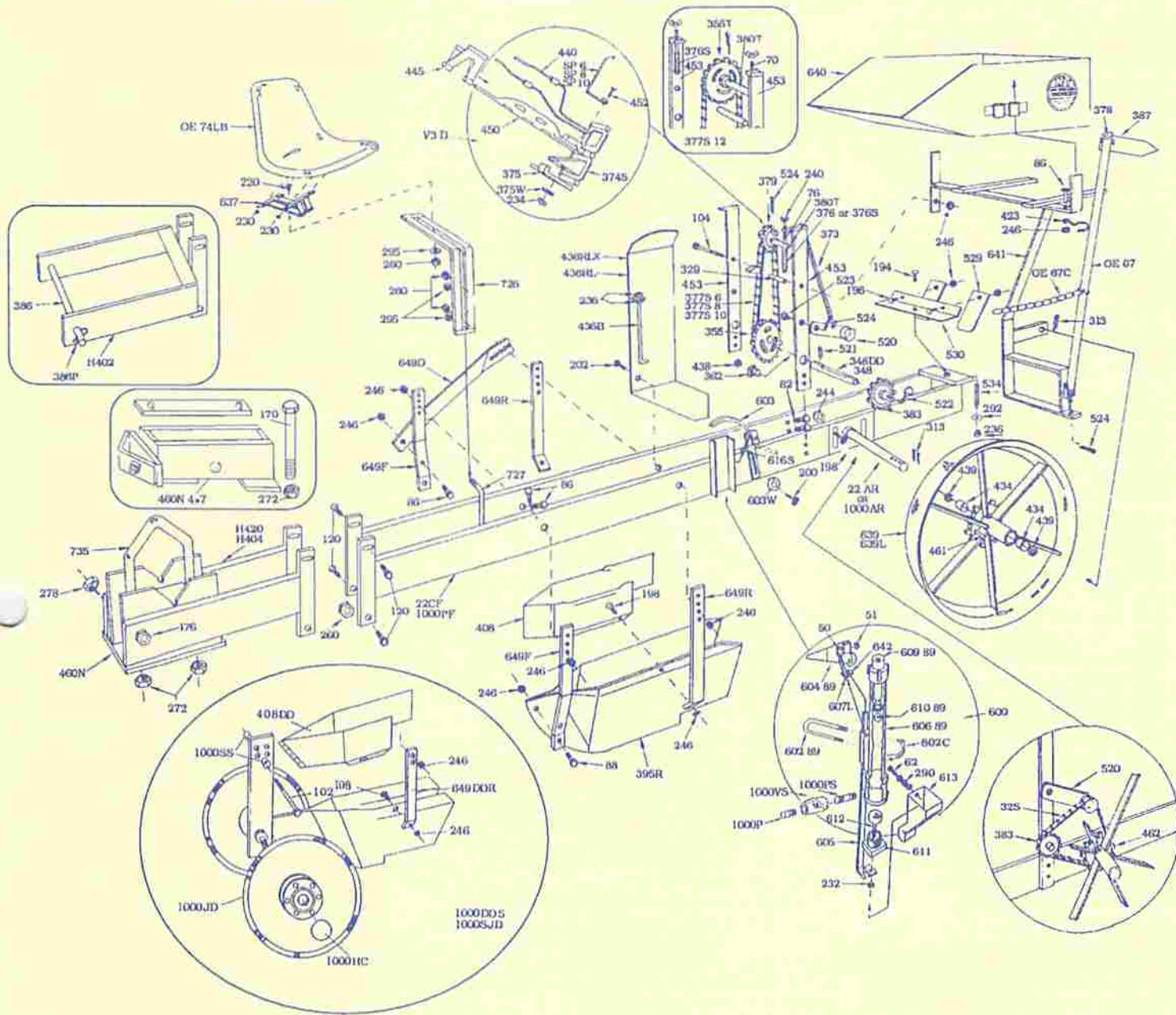


Mechanical Transplanter

Parts List and Operating Manual

For Models 22, 22C, 33, 122, 222, 500, 525, 550, 800's, 1000, CT-5, SU-3 plus the Float Wheel Direct Drive System.



Planter Unit Parts

10--Inside Chain Guard	30--Wheel	47--Plate for 4 x 7 DD Clamp
11--32 Steel Chain - 63 Links	31--Main Frame of Rear Half	50--1/4 x 1/2" Hex Head Cap Screw
12--Direct Tire & Rim (N S)	32--Wheel Chain Tightener Spring	51--1/4 x 5/8" Hex Head Cap Screw
13--D. D. Wheel Stud Bolt (N S)	32S--Steel Drive Chain (21 Links)	51S--Steel Drive Chain (per ft.)
14--Outside Chain Guard	32F--Steel Drive Chain (per ft.)	52--1/4 x 3/4" Hex Head Cap Screw
15--Chain Guard Clip Pin	33--Wheel Chain Tightener Arm	54--1/4 x 1-1/4" Hex Head Cap Screw
16--3/8" U-Bolt w/Nuts	35--Lift Chain	56--1/4 x 1-1/4" HHCS (Grade 5)
18--Unit Chain Tightener Bracket	38--Wheel Hub w/Sprocket	58--1/4 x 1-1/2" Hex Head Cap Screw
19--Chain Tightener Pipe Bearing - Short	39--Main Frame of Front Half	60--1/4 x 2-1/4" Hex Head Cap Screw
22--Unit Chain Tightener Arm	40--Left Clamp Less U Bolt	62--5/16 x 1/2" Hex Head Cap Screw
22AL--Left Axle for 22 planter	41--32 Steel Chain - 34 Links	64--5/16 x 3/4" Hex Head Cap Screw
22AR--Right axle for 22 planter	42--Right Clamp Less U Bolt	66--5/16 x 1" Hex Head Cap Screw
23--Washer to Hold Spring	43--Bushing for Clamp	68--5/16 x 1-1/2" Hex Head Cap Screw
24--Chain Tightener Pipe Bearing - Long	44--Chain Lift Plate	70--5/16 x 3-1/2" Hex Head Cap Screw
26--Pipe Spacer	45--Left 4 x 7 DD Clamp	72--5/16 x 3-3/4" Hex Head Cap Screw
27--Sprocket Jackshaft	46--Right 4 x 7 DD Clamp	74--5/16 x 4" Hex Head Cap Screw

76--5/16 x 5-1/2" Hex Head Cap Screw	242--5/16" Flange Hex Nut	375W--Water Trip Washer
79--3/8 x 1/2" Hex Head Cap Screw	244--3/8" Hex Jam Nut	376--Tension Spring (8 pocket)
80--3/8 x 3/4" Hex Head Cap Screw	246--3/8" Finished Hex Nut	376S--Tension Spring (10 & 12 pocket)
82--3/8 x 1" HHCS (Grade 2)	248--3/8" Nylock Nut	377S 10--10 Attachment Steel Conveyor Chain
84--3/8 x 1" HHCS (Grade 5)	250--3/8" Wing Nut	377S 12--12 Attachment Steel Conveyor Chain
86--3/8 x 1-1/4" Hex Head Cap Screw	252--3/8" Heavy Hex Jam Nut	377S 6--6 Attachment Steel Conveyor Chain
88--3/8 x 1-1/2" Hex Head Cap Screw	256--7/16" Finished Hex Nut	377S 8--8 Attachment Steel Conveyor Chain
90--3/8 x 1-3/4" Hex Head Cap Screw	258--7/16" Nylock Hex Nut	378--U-Bolt for Water Pipe
92--3/8 x 2" HHCS (Grade 5)	260--1/2" Finished Hex Nut	379--Upper Conveyor Sprocket
94--3/8 x 2-1/4" Hex Head Cap Screw	262--1/2" Hex Jam Nut	380--Upper Sprocket Shaft
96--3/8 x 3" Hex Head Cap Screw	264--1/2" Nylock Hex Nut	380T--Top Sprocket Shaft for #1000 after 1992
97--3/8 x 3-1/4" Hex Head Cap Screw	266--5/8" Finished Hex Nut	381 6--6 Tooth Spacing Sprocket
98--3/8 x 3-1/2" Hex Head Cap Screw	270--3/4" Hex Jam Nut	381--7 Tooth Spacing Sprocket
100--3/8 x 4" Hex Head Cap Screw	272--3/4" Finished Hex Nut	382--8 Tooth Spacing Sprocket
102--3/8 x 4-1/2" Hex Head Cap Screw	274--3/4" Nylock Hex Nut	383--9 Tooth Spacing Sprocket
104--3/8 x 5-1/2" Hex Head Cap Screw	278--7/8" Finished Hex Nut	384--10 Tooth Spacing Sprocket
106--3/8 x 6-1/2" Hex Head Cap Screw	280--7/8" Nylock Hex Nut	385--11 Tooth Spacing Sprocket
110--7/16 x 1-1/4" HHCS (Grade 5)	284--1" Finish Hex Nut	386P--Shaft Clip Pin
112--7/16 x 1-1/2" Hex Head Cap Screw	286--1" SAE Hex Nut	386--Direct Drive (Drawbar) Shaft
116--1/2 x 1" Hex Head Cap Screw	290--1/4" U.S.S. Flat Washer	387--Marker Blade
118--1/2 x 1-1/4" Hex Head Cap Screw	291--1/4 x 1" Fender Washer	391--Strainer for Water Tanks
120--1/2 x 1-1/2" Hex Head Cap Screw	292--5/16" U.S.S. Flat Washer	392--Hose Clamp
122--1/2 x 2" Hex Head Cap Screw	293--3/8" U.S.S. Flat Washer	393--Hose Nipple
124--1/2 x 3" Hex Head Cap Screw	294--1/2" Machinery Bushing	394--Water Hose 1" (per ft.)
126--1/2 x 3-1/2" Hex Head Cap Screw	295--1/2" U.S.S. Flat Washer	395--Blunt Pt. Shoe 7"
128--1/2 x 5" Hex Head Cap Screw	296--1/2" Set Collar	395 10"--Blunt Pt. Shoe 10"
130--1/2 x 5-1/2" Hex Head Cap Screw	297--5/8" U.S.S. Flat Washer	395 6"--Shoe for #100 Unit
132--1/2 x 6" Hex Head Cap Screw	298--5/8" Machinery Bushing	395 8"--Shoe for #100 Unit
134--1/2 x 8-1/2" Hex Head Cap Screw	299--5/8" Set Collar	395 8P--Poly 8" Shoe
135--1/2 x 9" Hex Head Cap Screw	300--3/4" Machinery Bushing (18 ga.)	395 9"--Blunt Pt. Shoe 9"
140--5/8 x 1-1/4" Hex Head Cap Screw	301--3/4" Set Collar	395 CT5--CT-5 Shoe Complete W/Point
142--5/8 x 3-1/2" Hex Head Cap Screw	302--7/8" U.S.S. Flat Washer	395 CT5SP--Shoe Point Only for CT-5 & CT-8
144--5/8 x 4-1/2" Hex Head Cap Screw	303--7/8" Set Collar	395R--Round Pt. Shoe
146--5/8 x 5-1/2" Hex Head Cap Screw	304--1" Machinery Bushing	395RP--POLY Round Pt. Shoe
148--5/8 x 7-1/2" Hex Head Cap Screw	305--1" Set Collar	395RPK--Poly Kit for Round Pt. Shoe
150--5/8 x 8-1/2" Hex Head Cap Screw	306--1-1/4" U.S.S. Flat Washer	396 10--10 Pocket Disc (with 407's)
152--5/8 x 9-1/2" Hex Head Cap Screw	307--1-1/4" Set Collar	396 8--8 Pocket Disc (with 407's)
154--5/8 x 10-1/2" Hex Head Cap Screw	308--2" Red Washer	396D--Disc Less Pockets
158--3/4 x 1-3/4" Hex Head Cap Screw	309--1-3/4" Machinery Bushing	400 24"--24" Corrugated Hose
160--3/4 x 2" Hex Head Cap Screw	310--1/4 x 5/8" Machine Screw	400 36"--36" Corrugated Hose
162--3/4 x 3-1/2" Hex Head Cap Screw	311--1/4 x 1" Machine Screw	401--Neoprene Strip
164--3/4 x 4" Hex Head Cap Screw	312--1/4 x 1-1/2" Machine Screw	402--Copper Ring
166--3/4 x 4-1/2" Hex Head Cap Screw	313--1/4 x 1-1/2" Cotter Pin	404--Chain Extension for R-2 Pockets
168--3/4 x 6 Hex Head Cap Screw	314--5/16 x 3/4" Square Head Set Screw	407--Roller Water Trip
172--7/8 x 1-1/4" Hex Head Cap Screw	315--3/8 x 3/8 Socket Head Set Screw	408--Dirt Shield
170--9 x 3/4" Hex Head Cap Screw (Grade 5)	316--3/8 x 5/8" Square Head Set Screw	408DD--Double Disc Shoe Dirt Shield
174--7/8 x 3-1/4" Hex Head Cap Screw	317--3/8 x 3/4" Square Head Set Screw	410--R 2 Spacer Guide
176--7/8 x 4-1/2" Hex Head Cap Screw	318--1/2 x 1" Wheel Stud Bolt	411--R-2 Spring Assembly
178--7/8 x 6-1/2" Hex Head Cap Screw	319--1/2 x 1" Square Head Set Screw	411S--Screw for R-2 Spring
180--7/8 x 9" Hex Head Cap Screw	328--3/4" Flange Block	412--Disc Extension for R-2's
184--1 x 8-1/2" Hex Head Cap Screw	329--Pipe Spacer between Uprights	415--Sprocket Drive Pins
190--1/4 x 1/2" Carriage Bolt	330--Collar	415L--Longer Sprocket Pin
192--1/4 x 1" Carriage Bolt	331--Barrel Cover (Old Steel Cover)	416--3/4" Oilite Bearing
194--5/16 x 2" Carriage Bolt	333--Tension Spring	419--1/2" Pin for 420R & 421L Tighteners
196--3/8 x 3/4" Carriage Bolt	334L--Guide for Pocket (chain)	420R--Chain Tightener RH
198--3/8 x 1" Carriage Bolt (5)	334S--Guide for Pocket (disc)	421L--Chain Tightener LH
200--3/8 x 1-1/4" Carriage Bolt	344--Packing Wheel Sprocket (Old Hub)	422--Yoke for Marker Pipe
202--3/8 x 1-1/2" Carriage Bolt	345--Water Valve Spout	423--Spring Hook for Markers
204--3/8 x 2-3/4" Carriage Bolt	346--Water Valve Washer	424--Upper Sprocket Bearing
206--3/8 x 1-1/2" Plow Bolt	347--3/4" Lower Sprocket Shaft before 1983	425--Cap for #344 Guides
210--7/16 x 3-1/3" Carriage Bolt	348--3/4" Shaft W/4 Holes (Rear Drive)	426--Shaft for Chain Tightener
212--7/16 x 4" Carriage Bolt	348DD--3/4" Lower Shaft for Direct Drive	428--Top Bracket for Uprights
214--7/16 x 5" Carriage Bolt	351R--Wheel Scraper RH	429--Wheel Scraper Blade
216--7/16 x 1-1/2" Plow Bolt	352L--Wheel Scraper LH	430--Scraper Mounting Bracket
219--1/2 x 1" Carriage Bolt	355--Lower Sprocket	433--Wheel Scraper Complete
220--1/2 x 1-1/2" Carriage Bolt	355T--Top Sprocket for #1000	434--7/8" Oilite Wheel Bearing
222--1/2 x 2" Carriage Bolt	355DD--14 Tooth Sprocket for Direct Drive	435--Wheel Bearing (Old Units)
224--1/2 x 2-1/2" Carriage Bolt	356--7/8" Packing Wheel Axle (before '90)	436B--L-Bolt for Pocket Guides
226--1/2 x 3" Carriage Bolt	362--Nylon Bushing for #348 Lower Shaft	436DRL--Disc Pocket Guides (pair)
228--1/2 x 4" Carriage Bolt	363R--Brace with Bearing RH	436RL--Reg. Pocket Guides (pair)
230--1/4" Finished Hex Nut	364L--Brace with Bearing LH	436RLX--Pr. Guides for #1000
232--1/4" Centerlock Hex Nut	369R--Chain Tightener Right Hand	437--3/4" Washer
234--1/4" Flange Nut	370L--Chain Tightener Left Hand	438--3/4" Machinery Bushings
236--5/16" Finished Hex Nut	373--Chain Tightener Spring	439--7/8" Machinery Bushings
238--5/16" Nylock Hex Nut	374S--Steel Attachment Link	440--Spring with Rollers
240--5/16" Wing Nut	375--Water Trip	445--Double Neoprene Gripper
		450--Pocket Main Frame

451--Strawberry Extensions (3 pieces)	452--Pocket Attaching Bolt
452D--Bolt to Attach Pocket to #396 Disc	453--1/4 x 2 Upright after 1992
454--Galvanized Spring Holder	460N--Floating Clamp for #22C
460N--Floating Clamp for 4 x 7	460R--Floating Clamp for #22
461--J-Bolt for Wheel Sprocket	462--11 Tooth Wheel Sprocket
463--Compression Spring*	464--Adjustable Arm for #463*
465--Slotted Washer for #464*	466--Cotter Pin for #464*
467L--Raising Lever LH*	467R--Raising Lever RH*
468--Raising Lever Extension*	469--Raising Lever (single)*
470--Hitch Pin W/Clip Pin	471--1-1/4" Tank Hose for #800
471R--#471 Hose Reducer on Model 800	475--Peat Pot Shoe for #33
476--Peat Pot Pocket for #33	477--Peat Pot Pocket Spring
478--Peat Pot Pocket Extension	482--Cube Extension for Pocket
483--Scraper Blades for #33 Pr	484--Scraper Blade Holder #33
485--Scraper Bracket for #33	520--Chain Tightener Arms
520C--Tightener Conversion Kit	521--Roll Pin
522--Clip Pin	523--Clevis Pin for 520 arm
524--Cotter Pin	529--Scraper Blade (ea) (units after '83)
529W--WIDE Wheel Scraper Blade	529WP--Wide Wheel Scraper Plastic Only
530--Scraper Mtg. Bracket (units after '83)	533--Wheel Scraper Complete (after '83)
534--Scraper Tension Spring (after '83)	

Water Valve Parts

600--Water Valve Complete	601--Water Inlet Nipple
602--1-1/4" U-Bolt (before '88)	602-89--1-1/4" U-Bolt W/Nuts (after 1988)
602C--Special U-Bolt Clamp	603--Water Valve Rocker & Cam
603W--Washer for Water Cam Spring	603D-10--#603 for 10 Pocket Disc
603D-12--#603 for 12 Pocket Disc	603D-8--#603 for 8 Pocket Disc
604--Water Adjustment Bracket (before '88)	604-89--Water Adjustment Bracket (after '88)
605--Water Trip Rod	606--1-1/4" Valve Housing W/Tee (before '88)
606-89--1-1/2" Water Pump Housing(after '88)	607--Water Trip Spring (before '88)
607L--Long Water Trip Spring	608--1-1/4" Cap W/Air Vent
609--Cap W/rubber seat (before '88)	609-89--1-1/2" Cap W/Rubber Seat after '88
610--Air Valve Float Kit	610-89--Air Valve Flow Kit (after 1988)
611--Nylon Water Valve Seat	612--Ball Valve W/Brass Pin
613--Water Valve Spout	614--Brass Air Vent before '88
616--#603 Cam Spring before '88	616S--#603 Cam Spring to use with 603W
630--60 Gal. Barrel Hoop (each)	632--Coulter Blade W/Bearing (14")
632-12--12" Coulter Blade with Hub	632-CT5--Coulter Blade Only for CT-5
633--Coulter Blade Bearing	633PS--Coulter Bearing Pipe Spacer
634--Cultivator Tooth Only	

634U--Cultivator U-bolt	635--Cult. Red Gauge Wheel Clamp Only
637--Fiberglass Seat Bracket	638--Jack for 600 & 800
639--Packing Wheel W/Sprocket	639L--Direct Drive Packing Wheel L/sprocket
639W--WIDE Packing Wheel W/Sprocket	639A--Adjustable Packing Wheel & Hub
639AH--Adjustable Packing Wheel Hub Only	639AL--Adjustable Packing Wheel Only
639WAL--Wide Adj. Packing Wheel Only	639AHDD--Direct Drive Adj Hub Only
640--Wide Plant Box (16") (each)	640N--Narrow Plant Box (13") (each)
641--Wide Plant Stand (each)	641N--Narrow Plant Stand
642--Plastic Cover for #605	643--Clamps for Row Knockers
643 4 x 7--Clamp Comp. for 4 x 7 Row Knocker	643T--Clamp Complete for 2-1/2" Row Knocker
644--Coulter W/Yoke & Shank for CT-5	645--Scalper Blade Only for CT-5
645-CT5--Scalper Blade W/Shank for CT-5	646--Scalper Blade Shank for CT-5
648--Seat Brace (prior to 1983)*	649R--Rear Shoe Brace for 395R
649F--Front Shoe Brace for 395R	649D--Diagonal Shoe Brace for 395R
649DDR--Rear 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	665--Gauge Wheel
666--Gauge Wheel Rim Only	667--OE 62 Bracket Only
668--B855 Barrel Mounting Holder	669--B850 Barrel Mounting Holder
715--3/8" U-bolt for D.D. and coulters	720--3/8" Rect. Bend U-Bolt for water feeder
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--7/8" U Bolt for A-Frames, 1000 & 6000

Parts for 800 Frames

830--Water Trap	835--Axle Plate
837--5/16" J-bolts for Barrel Straps	837L--5/16" Lg. J-Bolt for foot rest & 800
838--Large Decal	839--Large Tank Cover
840--Plastic Elbow-Water Gauge	841--Small Hose Clamp
842--Plastic Tube-Water Gauge	843--Hitch Pin Clip
844--Hitch Pin	845--Large Hose Clamp
846--Large Toolbar Clamp	847--Snap Ring for Jack
848--Hitch	849--Complete Welded Frame
850--Rockshaft	851--Large Angle Irons
852--Lower Lift Arms	853--Axle
854--Wheel Hub W/Bearings	854B--Bearing Package for 800 Hub
856--500 Gal. Saddle for 804 frame	856 300--300 Gal. Poly Tank W/Fittings
856B--Tank Straps for 800's	857--3" x 8" Hydraulic Cylinder

858--Hydraulic Hose Long-8'	859--Hydraulic Hose Short-7'
860--7.60 x 15 Tires	861--11.00 x 15 Tires
862--300 Gal. Poly Barrel Cover	862-60--Cover for 60 Gal. Poly Barrel
863-60--Bottom of 60 Gal. Poly	863--300 Gal. Poly Barrel Bottom Bushing
864--300 Gal. Saddle for 806 Frame	865--300 Gal. Saddle for 800 Frame
866--500 Gal. Tank for 804 Frame	867--500 Gal. Saddle for 804 Frame
868--Lynch Pin for Transport Bar	869--Transport bar for 800 2 row frame
880--Flotation Tire Hub Axle Sleeve	881--9/16 x 1-3/4 Wheel Stud
882--Bearings and Seals for Large Hub	884--Hub only for Flotation Tire
885--Outside Bearing Tightener	886--Inside Bearing Tightener
887--Bearing Sleeve Holder	888--Flotation Tire Axle
1000AL--Axle for #1000 - Left Side	1000AR--Axle for #1000 - Right Side
1000B--Double Disc Bearing	1000DD--Disc Only for Double Disc before 1992
1000DDS--Double Disc Shoe w/discs	1000DDSP--Poly Double Disc Shoe w/discs
1000DDSPK--Poly Kit for DD Shoe	1000DDSPCMP--Poly Double Disc Complete w/braces and dirt shield
1000DDSCMP--Double Disc Complete w/braces and dirt shield	1000DDW--Double Disc Washer
1000FW--Double Disc Flange Washer	1000H--Double Disc Hub
1000HC--John Deere Disc Hub Cap	1000JD--John Deere disc with hub
1000SJD--Double disc shoe without JD discs	1000P--Single Thread Nipple
1000PF--Planter Frame for #1000	1000PS--3/4" Close Nipple
1000S--Double Disc Shoe L/ Disc before 1992	1000SS--Double Disc Shoe Spacer
1000VS--Water Valve Shut Off	

Pockets

V-3-6-8-10--Pocket Complete W/Separating Bar (Nylon Rollers)	V-3D--Pocket Complete Less Separating Bar W/Nylon Rollers
SP-6-8-10--Separating Bar for 6, 8, 10 or 12 Pocket Chain	CA-6--6 Pocket Chain Complete w/water
CA-8--8 Pocket Chain Complete w/ water	CA-10--10 Pocket Chain Complete w/water
CA-12--12 Pocket Chain Complete w/water	R-2--Nprne, Gripper for All R-2 Pockets
WF--Fasteners w/Screws for R-2 Pckts (pr)	D,6,8 or 10 R-2--Pckt Cpte. (prior to 61)*
24-R-2--Pocket for 24 Pocket Bed Planter	

Changeover Kits From Chain To Disc

CDWO 8--8 Pocket Kit W/O Pockets	CDW 8--8 Pocket Kit W/Pockets
CDWO 10--10 Pocket Kit W/O Pockets	CDW 10--10 Pocket Kit W/Pockets

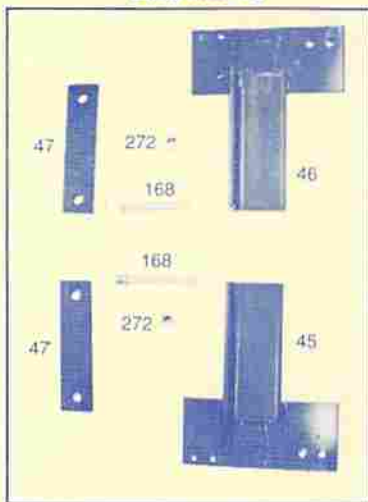
From Disc To Chain

DCW 8--8 Pocket Kit W/Pockets	DCW 10--10 Pocket Kit W/Pockets
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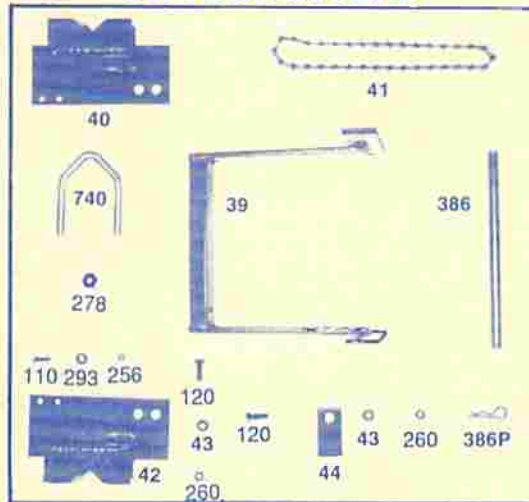
MT A Frame Parts

MT AA--A Frame Top Spacer	MT AB--A Frame Right Upright
MT AC--A Frame Left Upright	MT AE--A Frame Right Bracket
MT AF--A Frame Left Bracket	MT AG--Cat. I Pin
MT AG2--Cat II Pin (NS)	

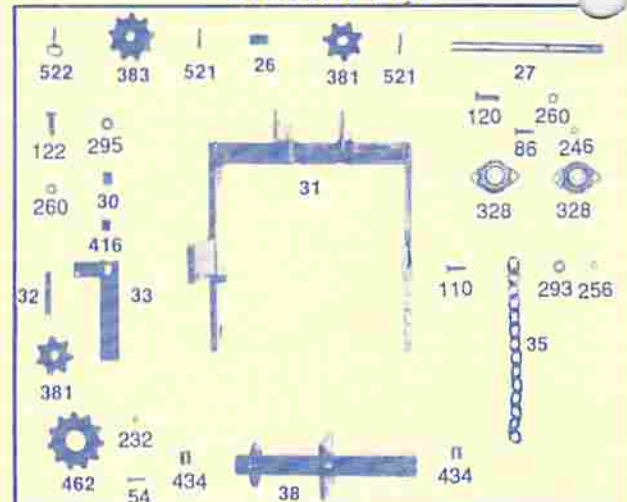
4 x 7 DIRECT DRIVE CLAMPS



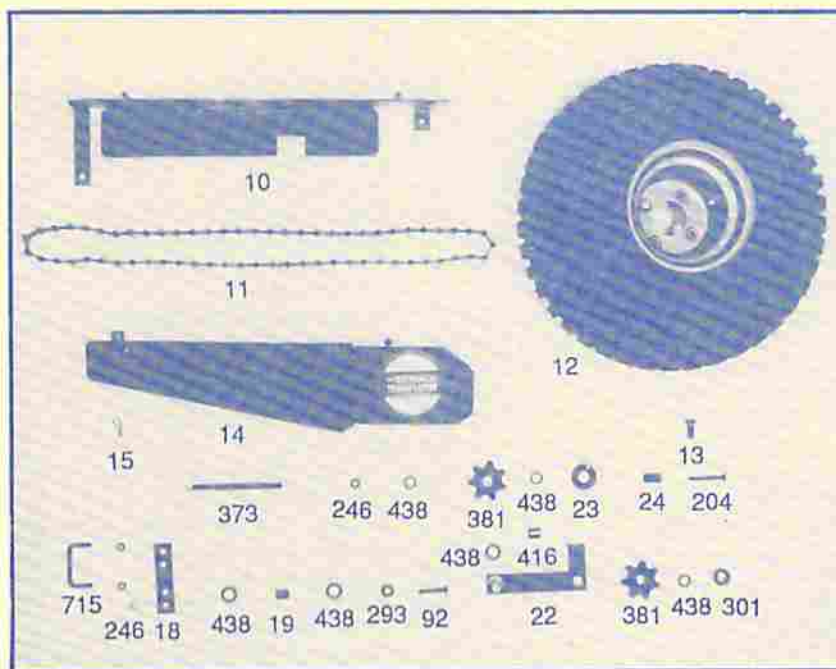
FLOAT WHEEL FRONT HALF OR TOOLBAR END



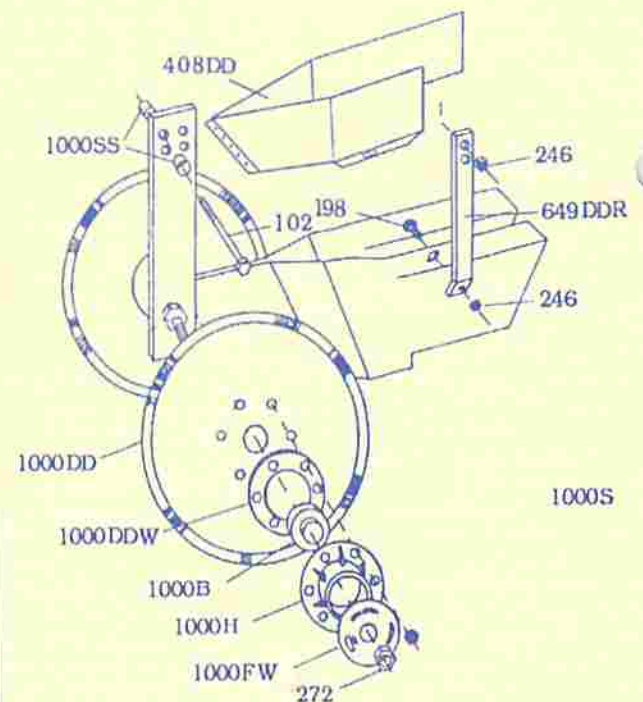
FLOAT WHEEL REAR HALF
OR UNIT END



MODEL #1000 FLOAT WHEEL DIRECT DRIVE PARTS



1000DDS Double Disc Shoe before 1992



FLOAT WHEEL DIRECT DRIVE OPERATING INSTRUCTIONS

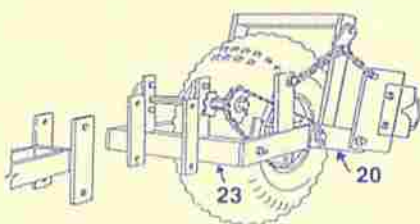
Make sure the Float Wheel has only 4 to 5 pounds of pressure in it during operation.

Put the planting unit in the ground and make sure it is running level with the soil. Then make sure your toolbar is in the MIDDLE of the hitch so the 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 or for units with oversized wheels, you may have to use the lower holes on the front clamp plates to get the frame to run straight.

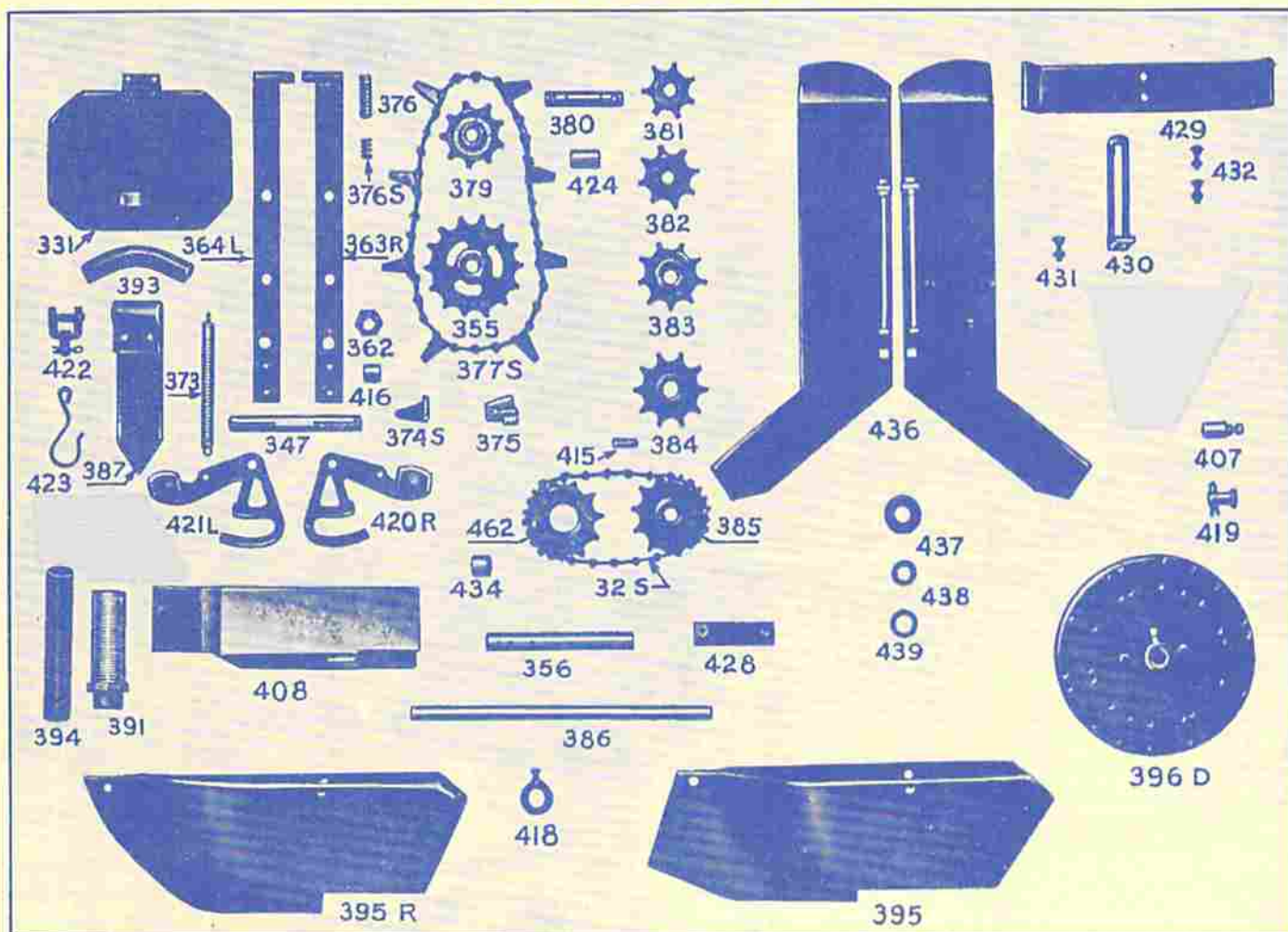
The hitch and wheel will float freely and sense uneven soil conditions if set up properly. DO NOT TIGHTEN LIFT CHAINS. They must be loose when planting. If you cannot lift the units high enough, raise the lower arms on your tractor by cranking them up. Do not tighten the chains.

For some unusual spacings, you may have to use an extra link or two in the drive chains.

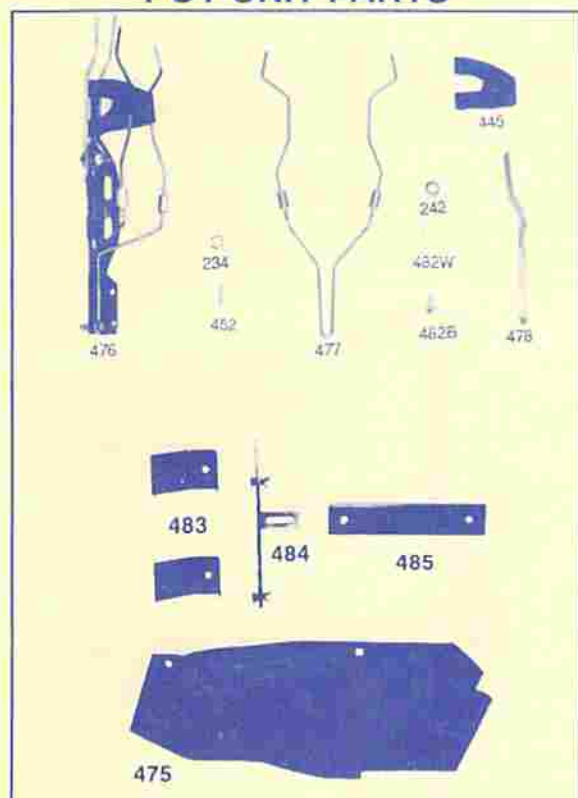
If you need extra weight on the back of the unit, use our optional OE 73 weight bracket



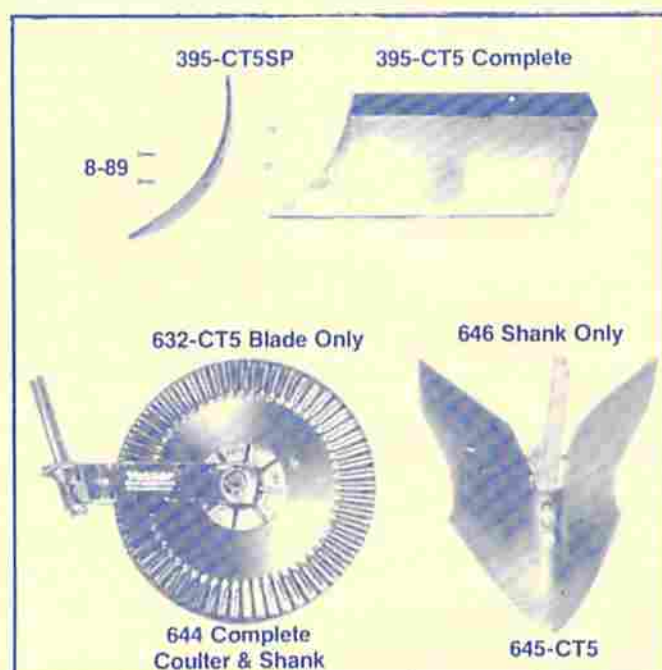
PLANTER UNIT PARTS



NO. 33 PEAT POT UNIT PARTS



CT-5 PARTS



PLANT SPACING INFORMATION

CHAIN SPACING CHART FOR REG. UNITS

No. of teeth in sprocket	7	8	9	10	11
No. of pockets on chain	SETS 12" 30.48cm	SETS 14" 35.56cm	SETS 16" 40.64cm	SETS 18" 45.72cm	SETS 20" 50.8cm
8 POCKETS	16" 40.64cm	18" 45.72cm	20" 50.8cm	22" 55.88cm	24" 60.96cm
6 POCKETS	20" 50.8cm	22" 55.88cm	24" 60.96cm	26" 66.04cm	28" 71.12cm
5 POCKETS	24" 60.96cm	28" 71.12cm	32" 81.28cm	36" 91.44cm	40" 101.6cm
4 POCKETS	32" 81.28cm	36" 91.44cm	40" 101.6cm	44" 111.76cm	48" 121.92cm
3 POCKETS	40" 101.6cm	44" 111.76cm	48" 121.92cm	52" 132.08cm	56" 142.24cm
2 POCKETS	64" 162.56cm	72" 182.88cm	80" 203.2cm	88" 223.52cm	96" 243.84cm

Use for Models 122, 22, 22C, 222, 33, 300, 600 and CT 5.

SPACING CHART FOR DIRECT DRIVE 1000 UNIT WITH 12 POCKET CHAIN

Sprocket on OUTSIDE of Jackshaft	Sprocket on INSIDE of Jackshaft	Number of Teeth on Sprocket on Unit				
		7	8	9	10	11
7	11	6" 15.2 cm	6 9/16" 17.8 cm	7 1/8" 20.3 cm	8 1/4" 21.6 cm	9" 22.8 cm
7	7	9" 22.8 cm	10 1/4" 26.7 cm	13" 33 cm	15" 38.1 cm	16" 40.6 cm
8	7	10 1/8" 26.7 cm	12 1/2" 31.7 cm	14" 35.5 cm	15" 38.1 cm	16" 40.6 cm
9	7	12" 30.5 cm	13 1/4" 34.3 cm	15" 38.1 cm	17" 43.2 cm	18 1/4" 47 cm
10	7	13" 33 cm	14" 35.5 cm	15 1/4" 39.4 cm	17 1/2" 44.5 cm	20 1/4" 52 cm
11	7	15" 38.1 cm	18" 45.7 cm	Spacings above 18", use 6 pockets		

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.

DISC SPACING CHART

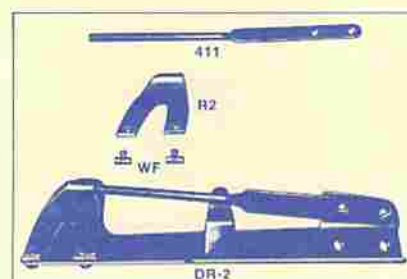
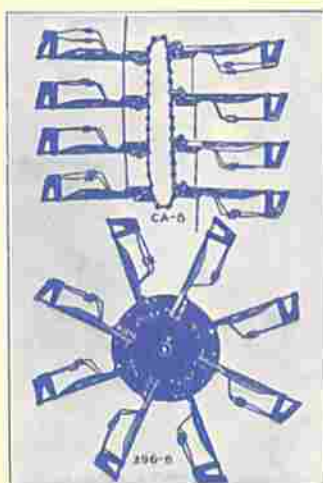
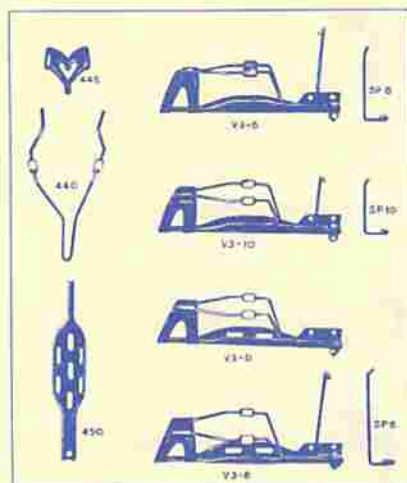
No. of teeth on sprocket	7	8	9	10	11
No. of pockets on disc	SETS 2" 5.08cm	SETS 2 1/2" 6.35cm	SETS 3" 7.62cm	SETS 3 1/2" 8.89cm	SETS 4" 10.16cm
24-R 2 Pockets #500 U & 100S units only	3" 7.62cm	3 1/2" 8.89cm	4" 10.16cm	4 1/2" 11.43cm	5" 12.7cm
20-R 2 Pockets #500U & 100S units only	4" 10.16cm	4 1/2" 11.43cm	5" 12.7cm	5 1/2" 13.97cm	6" 15.24cm
16-R 2 Pockets #500U & 100S units only	4 1/2" 11.43cm	5" 12.7cm	5 1/2" 13.97cm	6" 15.24cm	6 1/2" 16.51cm
12-V-3 Pockets (Optional)	5 1/2" 13.97cm	6 1/4" 15.875cm	7" 17.78 cm	7 1/4" 19.685cm	8 1/2" 21.59cm
10-V-3 Pockets (Standard)	7" 17.78cm	7 3/4" 19.685cm	8 1/2" 21.59cm	9 1/4" 23.495cm	10" 25.4cm
8-V-3 Pockets (Standard)	9" 22.86cm	10" 25.4cm	11" 27.94cm	12" 30.48cm	13" 33.02cm
6-V-3 Pockets (Special Order)	11" 27.94cm	12 1/2" 31.75cm	14" 35.56cm	15 1/2" 39.37cm	17" 43.18cm
5-V-3 Pockets (Standard)	14" 35.56cm	15 1/2" 39.37cm	17" 43.18cm	18 1/2" 46.99cm	20" 50.8cm
4-V-3 Pockets (Standard)	18" 45.72cm	20" 50.8cm	22" 55.88cm	24" 60.96cm	26" 66.04cm
3-V-3 Pockets (Order 6 pocket disc)					

Use for Models 122, 22, 22C, 222, 33, 300, 600, SU 3, 100, 500 and 525.

Chain Assembly Layout Instructions

- Pocket Chains have 2 Plain Links between attachment links, making a total of 36 links including the attachment links. SP-10 spacers, 3-1/2" long, are used on this chain and the 376S spring, 1" long, on upper conveyor bolts.
- Pocket Chains have 2 Plain Links between attachment links, making a total of 30 Links including the attachment links. SP-10 Spacers, 3-1/2" long, are used on this chain and the 376S springs, 1" long; on upper conveyor bolts.
- Pocket Chains have 3 Plain links between attachment links, making a total of 32 links including the attachment links. SP-8 spacers, 4-1/4" long, are used on this chain and the 376 springs, 2" long, on upper conveyor bolts.
- Pocket Chains have 4 Plain Links between attachment links, making a total of 30 links including the attachment links. SP-6 spacers, 5-3/8" long, are used on this chain and the 376S springs, 1" long, on the upper conveyor bolts.
- Pocket Chains are the same as 10 pocket with every other pocket removed (Spacers not required).
- Pocket Chains are the same as 8 pocket with every other pocket removed (Spacers not required).

V-3 POCKETS



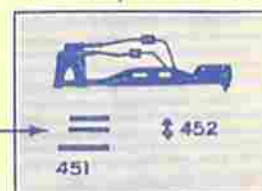
R 2 Type Pockets

- Specify Number of Pocket on Unit.
- DR-2, 6R-2, 8R-2, 10R-2, were used on units prior to 1961.
- 16R-2, 20R-2, 24R-2 are currently used on Model 500 & 525 Bed Planter Units.



482 POCKET EXTENSION

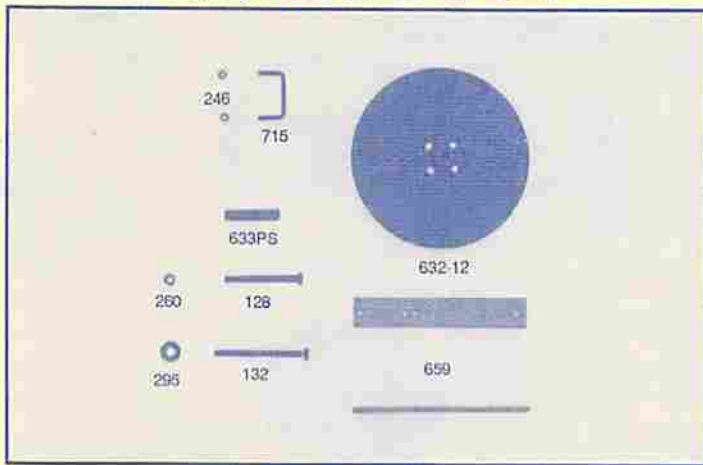
For units prior to 1990.



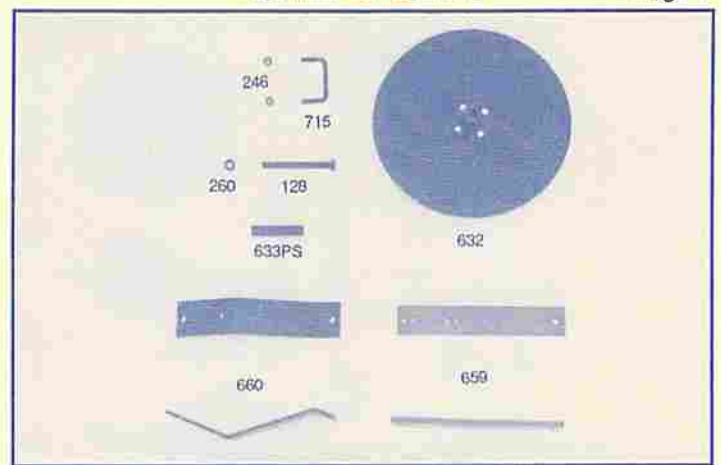
STRAWBERRY EXTENSIONS

For units after 1990 adjust packing wheel axles up to lower pockets in ground.

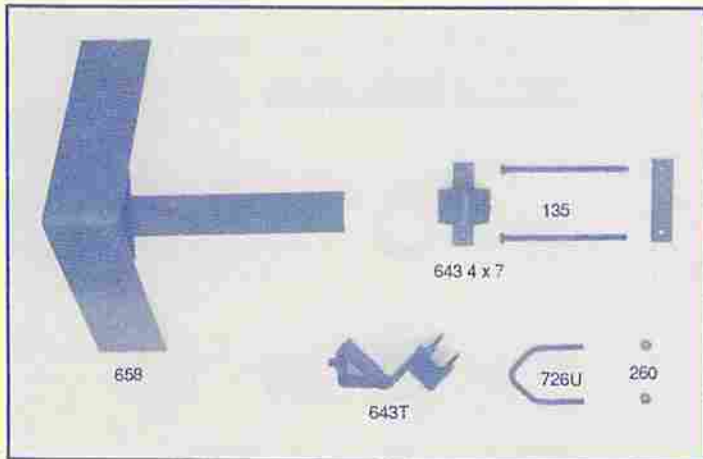
OE 65 4000 or OE 65 6000



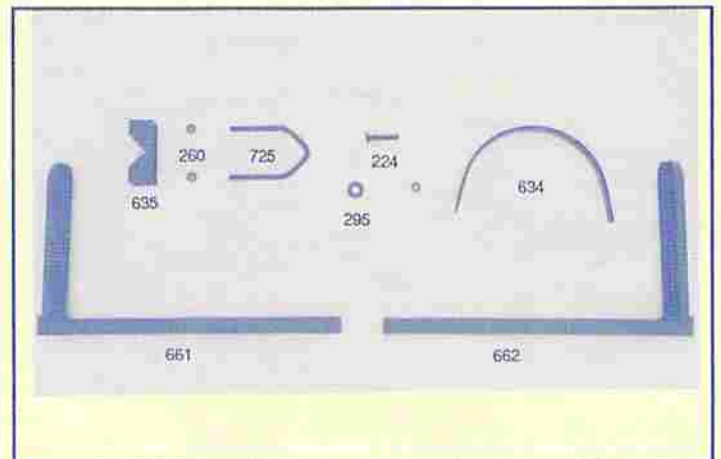
OE 65 or OE 64



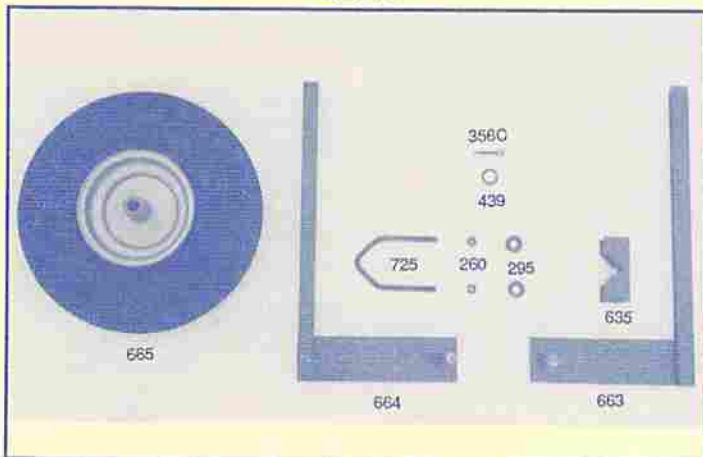
OE 66T or OE 66 4 x 7



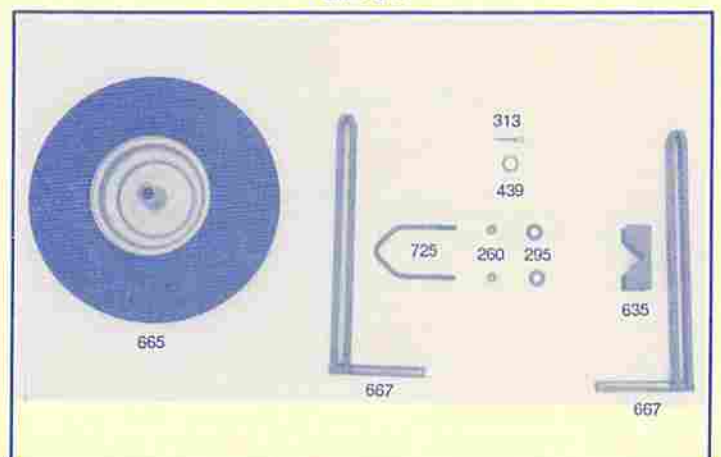
OE 71



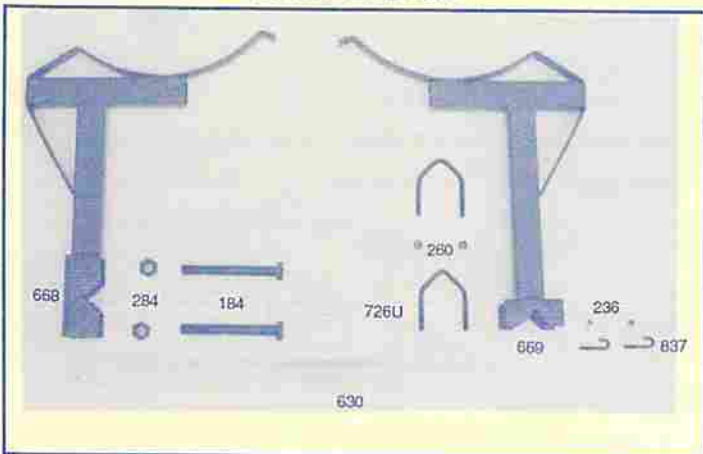
OE 78



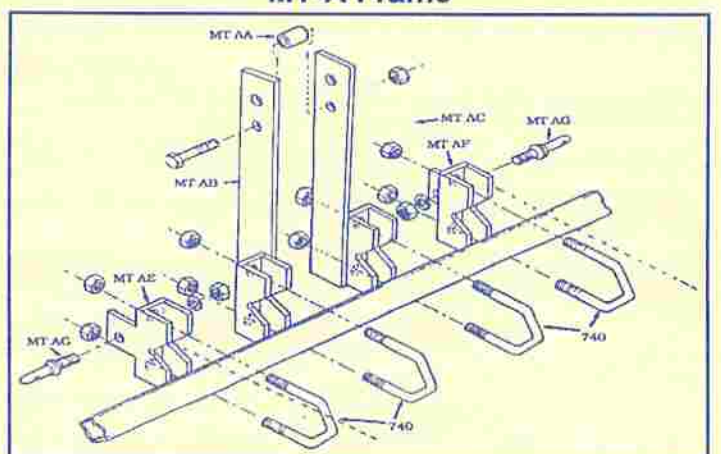
OE 61



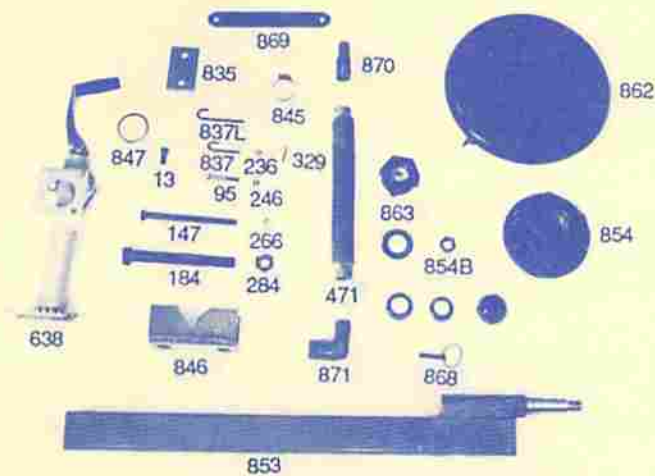
B855 or B850



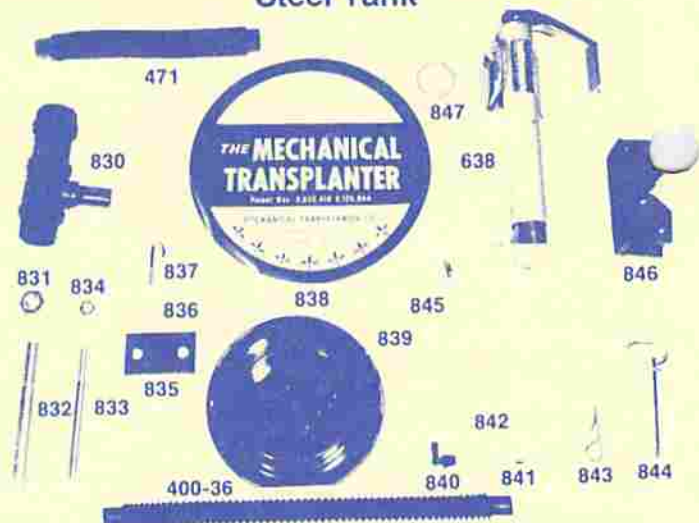
MT-A Frame



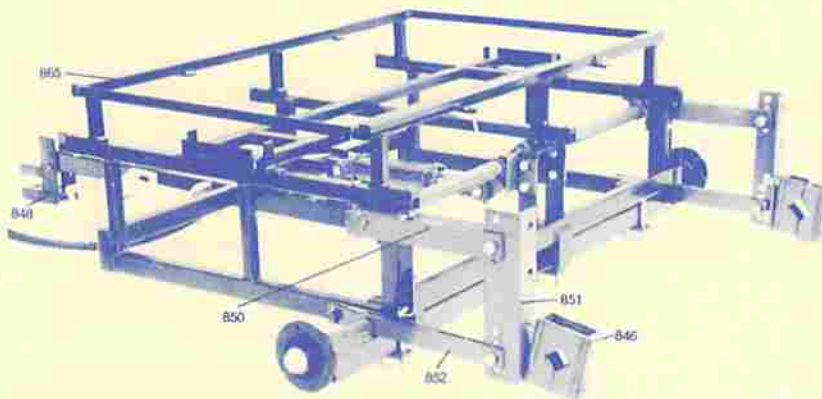
Model 800 Plastic Tank



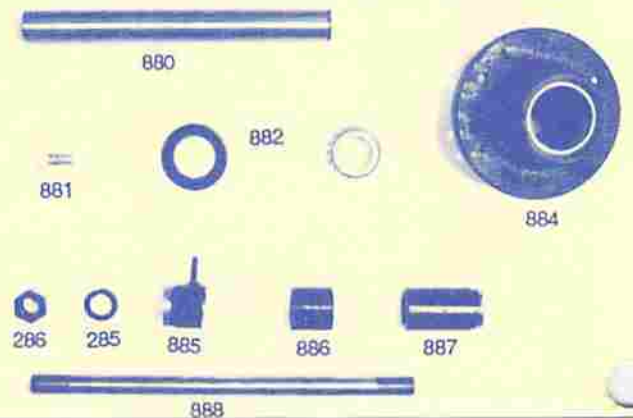
Model 800 Parts Steel Tank



Model 800 2 Frame



8004 Wheel Hub & Axle Assembly



General Operating and Maintenance Instructions

(Detailed Operating Instruction Manual is available)

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:** This valve has a ball check tripped from below. The reservoir allows water supply to build up between plants. There is an automatic float in the top of this reservoir to 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 secret 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 form tee. New ball check with stem can then be easily inserted. (Leave 1/16" space between brass but and trip rod.) **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.**

SAFETY PRECAUTIONS

1. Make sure your tractor is stopped and in neutral with the transplanter lowered to the ground before getting on or off the unit.
2. No operator should be on the unit as it is raised or lowered.
3. No operator is allowed on the transplanter during transporting of unit to or from the field.
4. All operators must be seated before movement begins and remain seated until the unit is completely stopped.
5. Never leave 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. Follow all safety instructions supplied by the tractor manufacturer to which the transplanters are mounted.

Mechanical Transplanter Co.

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