

**Yetter**  
... for land's sake

## OPERATOR'S MANUAL

### MODEL 6600 COULTER CART



*min - 140  
max - 280*

*12,500 lbs  
lift capacity*

**YETTER MANUFACTURING CO.**  
FOUNDED 1930  
Colchester, IL 62326-0358 • 309/776-4111  
Toll free 800/447-5777  
309/776-3222 (Fax)

**Yetter**

# ASSEMBLY INSTRUCTIONS

**NOTE:** To aid in the assembly of your Coulter Cart, additional parts breakdown and illustrations are on pages 16 thru 22.

## TRANSPORT WHEELS

The unit is shipped with only the inside wheels assembled. Assemble the outside factory assembled wheel and spindle assembly by sliding the spindle into the tube welded to the bottom of the transport frame and retain it with 1/2" bolt and locknut. See page 21.

## HANGER BARS

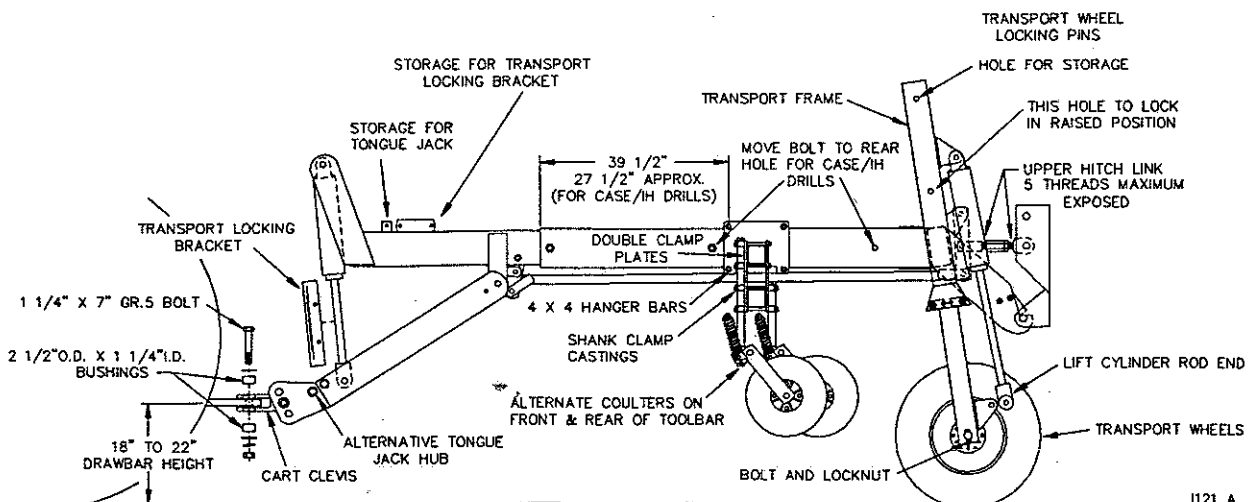
Loosely mount 4" x 4" hanger bars to the 8" x 8" center frame using the four 3/4" x 10-1/2" bolts, lockwashers and nuts as shown on page 18. Position the bars on the center frame with the centerline of the front mounting bolts 39-1/2 inches from the front edge of the 8" x 8" frame. See illustration below.

**NOTE:** If mounting on an International drill, move the hanger bars forward an additional 10" to 12" to clear drill gauge wheel tires. **DO NOT** mount hanger bar more than 2 inches rearward of this dimension because the coulters blades may interfere with the cart transport tires.

**NOTE:** To comply with BASF® BASAPLAN, locate coulters toolbar mid-way between drill openers and hitch point.

## TOOL BAR

1. A coulters will be mounted on the cart directly in line with each opener on the implement. Determine opener spacing of the implement which will be mounted on the cart. Most implements have an even number of openers with no opener in the center. If the implement has an odd number of openers, it will have one in the center and a Yetter part number 3011-302-BB offset shank will be required. This is because the equalizing linkage prevents mounting a coulters on the centerline of the implement.
2. Mount the double bar clamps loosely on the hanger bars with one of each side of the main frame as close as possible and one on each end of the hanger bars without interfering with the reflective tape. See page 18.
3. Mount the 4" x 4" tool bar under the hanger bars leaving all bolts loose at this time.



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4. Center the bar on the cart. Beginning at the center of the 4" x 4" tool bar carefully mark the centerline of the bar (this should be directly below the equalizer tube). If your implement has an even number of openers, divide the spacing by two and mark the centerline for the first coulters on each side of the centerline already marked on the bar. Start with these markings and mark on the 4" x 4" bar the spacing to the end of the bar on each side of the centerline. If your implement has an uneven amount of openers, mark the 4" x 4" bar in the center and then go out from there with your row spacing marks on the bar. Also for 20 foot units only, mark the position for a third double clamp plate as near mid-way between the first two as possible.

NOTE: Best trash clearance requires mounting the coulters alternately to the front and to the back side of the tool bar. See page 4. Be sure that the shank clamp castings are on the correct side of the double clamp plates as the locations selected.

It is very important before tightening that the double clamp plates be square to both the hanger and tool bar.

5. After checking to be sure the bar is centered, the double clamp plates are square and the shank castings are alternated on the correct side of the bar, tighten all bolts.

### **INSTALL HANGER BAR BRACES**

Loosely attach the front of the braces with (2) 5/8" x 9" bolts, lockwashers and nuts to the 7" x 7" bar just ahead of where it telescopes inside the 8" x 8" tube. Loosely attach the opposite end with large 5/8" U-bolt, lockwashers and nuts to the hanger bar, as shown on page 18. Adjust for best fit and tighten.

### **ADDITION OF SECOND TOOL BAR**

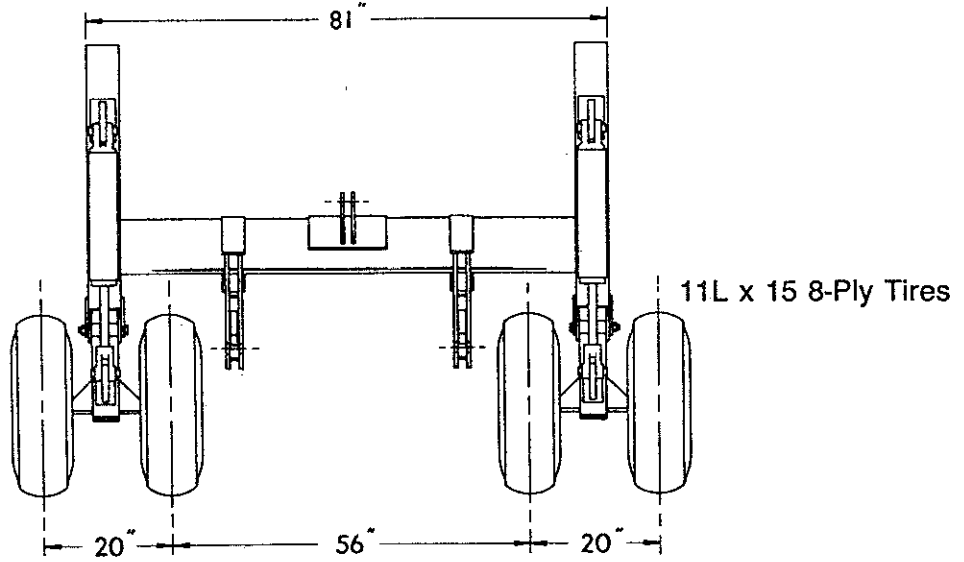
If required, a second set of hanger bars and tool bar can be installed for mounting fertilizer coulters applicators.

1. To do this, remove the diagonal braces from existing bar.
2. Extend the cart center frame by removing existing 1" bolts securing the 7 x 7 and 8 x 8 center frame tubes.
3. Remove pins and remove existing equalizer tube and equalizer lever, then extend the 7 x 7 tube out until the next set of holes line up and reinstall all hardware. Install new equalizer tube 128-3/8" and equalizer lever 10-1/4" provided.
4. Mount the second set of hanger bars ahead of the first. The diagonal braces are then assembled between the 7" x 7" tube and the front set of hanger bars. Install toolbar brackets between the front and rear hanger bars. See page 19. Mount the bar and coulters the same as on the other bar making the necessary adjustment for the spacing.
5. Install the 1/2 x 34" hydraulic hoses to the end of existing hoses on the cart using the 1/2" swivel fittings provided.

### **DRAWBAR HEIGHT**

The clevis assembly may be adjusted to any pair of the three pairs of holes provided to allow the cart frame to run level in operation and match most tractor drawbar heights.

# SPECIFICATIONS



REAR VIEW

Hydraulic Cycle Time Rear Lift Cylinders:

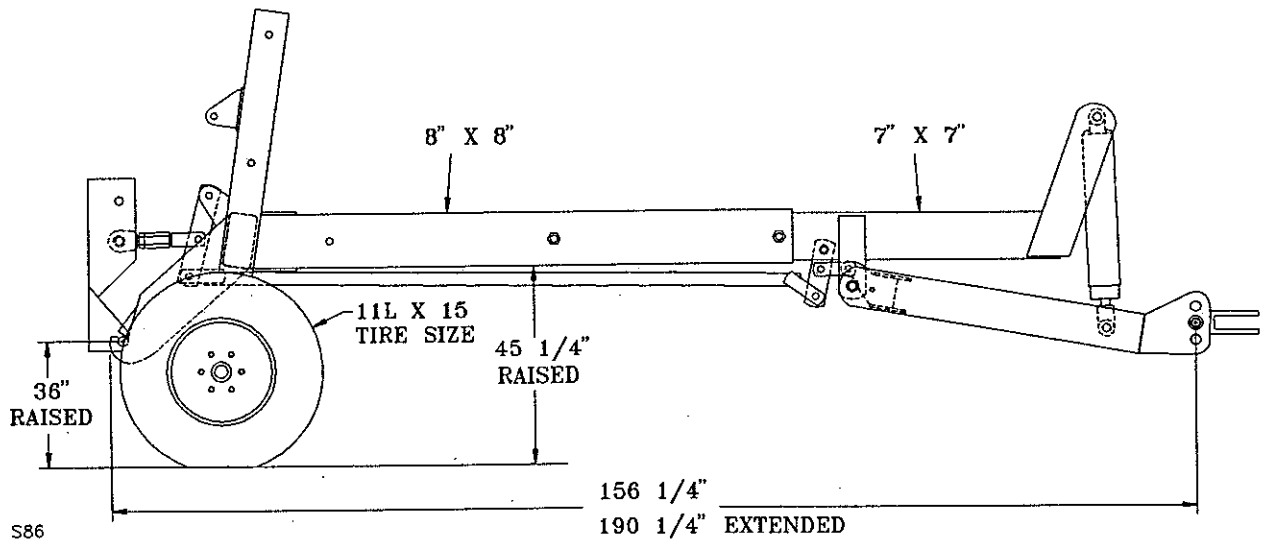
Tractor at 1500 RPM Hydraulic

Outlets set at fast (Rabbit)

Full Cycle Time is:

4.5 seconds up

4.5 seconds down



SIDE VIEW

12,500 Lb. Lift Capacity Includes Cart, Coulter & Drill

## ~~2990~~ COULTER ASSEMBLIES

2990-030 Coulter, Swivel, 17" Ripple, 3/4 Offset, 4 x 4

2990-031 Coulter, Swivel, 17" Wavy, 3/4 Offset, 4 x 4

2990-033 Coulter, Swivel, 16", Bubble, 3/4 Offset, 4 x 4

# PREPARING THE TRACTOR

The Yetter Model 6600 coultter cart is designed to operate on tractors with drawbar heights from 18 to 22 inches from the ground to the top of the drawbar. Lower drawbar heights will limit coultter depth control during operation and make hook up more difficult. See page 4.

On certain tractors the drawbar can be turned over to obtain the correct height if necessary.

On certain tractors additional distance is needed to prevent the cart cylinder from hitting the tractor when sharp turns are made. If needed, a drawbar extension kit is available (Yetter Part No. 6600-128).

## TRACTOR HOOK UP

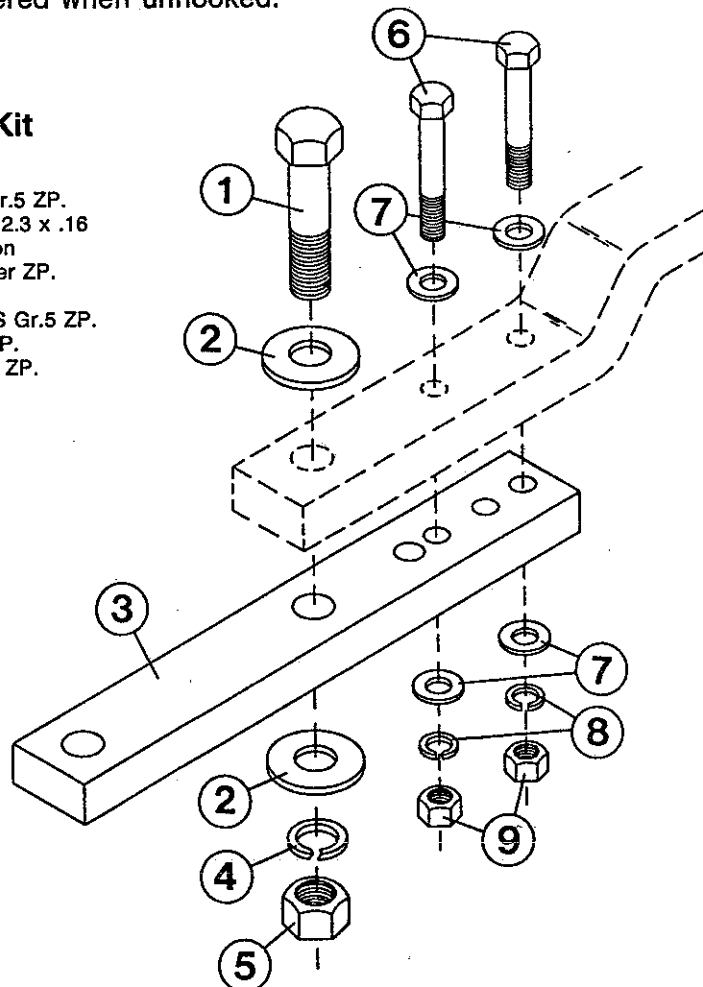
1. Position cart tongue with the jack provided to mach the tractor drawbar. Back tractor slowly into position to allow hook up. If the tractor drawbar pin hole is 1" diameter, a clevis adaptor kit for 1" drawbar holes is available (Yetter Part No. 6600-138). See page 22.
2. Install the 1-1/4" std. flatwashers and 2-1/2" OD bushings on the top and bottom and secure with 1-1/4" x 7" grade 5 bolt, lockwashers and nut as shown on page 22. Be sure 2-1/2" OD bushings are engaged in holes of cart clevis.
3. Level the cart clevis using the tongue jack and then tighten 1-1/4" hitch bolt to 600 ft. lbs. torque (pull 100 lbs. on 6 ft. long wrench extension to obtain the proper torque). This hitch is designed to allow flexibility in all directions, yet limit hitch "slop" when going from positive to negative tongue weights.
4. Raise the jack, remove it and store it on the hub mount on top of the 7" x 7" tubular frame. See page 4.

**IMPORTANT:** There are two jack hub mounts welded to the tongue. Use the hub which allows the jack to be perpendicular to the ground when used to support the cart. This will depend on whether the cart is raised or lowered when unhooked.

### 6600-128 10" Drawbar Extension Kit

Ref.	Qty.	Part No.	Description
1	1	2502-793	1-1/4-7 x 5 HHCS Gr.5 ZP.
2	2	2526-559	1-1/4 Flatwasher, 3 x 2.3 x .16
3	1	6600-443	10" Drawbar Extension
4	1	2525-552	1-1/4 Med. Lockwasher ZP.
5	1	2520-572	1-1/4-7 Hex Nut ZP.
6	2	2502-406	3/4-10 x 4-1/2 HHCS Gr.5 ZP.
7	4	2526-501	3/4 Std. Flatwasher ZP.
8	2	2525-501	3/4 Med. Lockwasher ZP.
9	2	2529-504	3/4-10 Hex Nut ZP.

1 1/2" thick  
3" wide





## HYDRAULIC HOOK UP



**DANGER:** Inspect and replace worn or frayed hydraulic hose. Keep all connections tight. Escaping hydraulic fluid under pressure can have sufficient force to penetrate the skin and cause serious personal injury. Fluid escaping from a small hole can be almost invisible. Use a piece of cardboard or wood rather than the hands to search for suspected leaks. Failure to heed may result in serious personal injury or death.

The Yetter coultter cart requires two remote hydraulic valves on the tractor for proper operation. Before operating perform the following steps:

1. Check the tractor hydraulic system fluid level. Filling all three cylinders with hydraulic fluid will require approximately 2-1/2 gallons. Do not operate tractor hydraulics when fluid level is low.
2. Disconnect rear lift cylinder rod end pins when the weight is relieved from the cylinders. Space the cylinders away from the frame by placing blocks (about 4" wide) between the cylinders and frame to allow the rods to extend freely. See page 4.
3. Connect the two hoses from the rear lift system to the tractor.
4. Extend cylinders slowly while watching to see that the rod ends do not hit any obstructions. Because these are rephasing cylinders, the left cylinder will extend first and then the right.
5. Hold hydraulic lever in extend position for 15 seconds after cylinders are fully extended to purge air from system.
6. Re-check tractor fluid level and refill if necessary.
7. Cycle cylinders back and forth a couple of times to see that they operate together. Hold the valve in the extended position a few seconds after each cycle for additional air purging.
8. Retract cylinders and re-connect rod end pins and click pins.
9. Raise lift cylinders and install transport lock pins in lower set of holes in the vertical tubes for transport. These pins are stored in the upper set of holes during operation. See page 4.
10. Connect front cylinder hoses to tractor and extend slowly. Be sure transport lock bracket has been removed. Hold hydraulic lever in extended position for a few seconds to purge the air. This cylinder is also a rephasing type and may be connected with the others to lift the cart frame level for special applications.
11. After cycling a few times to purge the air, extend this cylinder and install the transport lock bracket over the cylinder rod and secure with pins and click-pins for transport. This transport lock bracket is stored on top of the 7" x 7" tubular frame near the jack storage. See page 4.

**NOTE:** After purging hydraulic system check adjustment and operation of transport wheel rollers. These rollers must turn when the cart is lowered and raised. Adjust 1/4" bolt as necessary. See page 11.

# IMPLEMENT HOOK UP

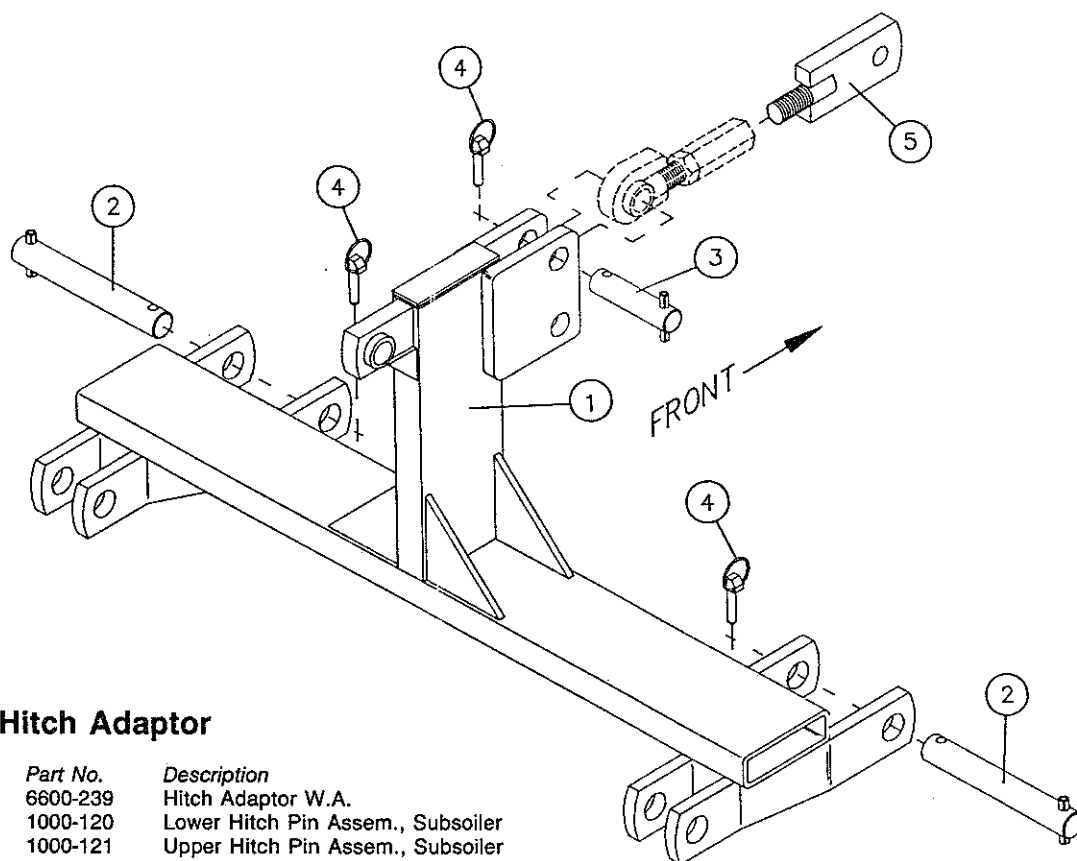
The Yetter coultter cart is designed for use with 3 point mounted grain drills and other implements.

1. Carefully back the cart to the implement. Lower or raise the cart with the lift cylinders to align the 3 point quick hitch on the cart with the implement.
2. Secure and lock the lower lift arm pins. Connect the adjustable top link of the cart to the lower hole in the top anchor on the 3 point implement. Lock the jam nut when the adjustments are completed.

**NOTE:** Check clearance of implement and cart tires. Hitch adaptor (6600-132) may be required when using a subsoiler to offset the shanks away from the tires. Disconnect self-leveling mechanism when using hitch adaptor.

**NOTE:** When using a subsoiler on the coultter cart the use of the cart rear brace kit is advised. See page 20.

**NOTE:** Coultter carts used with subsoilers are not intended for use where rocks or other obstructions are present and are subject to the following limitations; subsoilers no larger than 7 shanks, tractor not to exceed 280 h.p. and the self-level mechanism must be disconnected.



## 6600-132 Hitch Adaptor

Ref.	Qty.	Part No.	Description
1	1	6600-239	Hitch Adaptor W.A.
2	2	1000-120	Lower Hitch Pin Assem., Subsoiler
3	1	1000-121	Upper Hitch Pin Assem., Subsoiler
4	3	2570-605	Klik Pin
5	1	6600-240	Adaptor Link W.A., Cart End



**WARNING:** Be sure the attached implement is securely locked in the 3 point quick hitch before operating. Failure to heed may result in serious personal injury or death.



**WARNING:** Do not lengthen the top link so that more than 5 threads are exposed on the adjustment rod at either end.



**WARNING:** Always install the transport lock pins and bracket when transporting for any length of time or on public highways. Failure to heed may result in serious personal injury or death.



## FIELD OPERATION



**WARNING:** Do not allow children to operate this equipment. Do not allow riders on the tractor. Failure to heed may result in serious personal injury or death.

The cart is raised by the lift cylinders. Since the attached implement is a 3 point mounted unit it will raise with the cart. The cart is lowered when the lift cylinder lifts the transport wheels off the ground. The wheels of the implement then support the cart.

The depth of the coulters on the cart is regulated by the front cylinder. An equalizing linkage allows adjustment to the coulter depth without affecting the depth setting of the implement.

The planting depth is controlled by the gauge wheel setting of the implement unit. See the owner's manual for your implement.

**NOTE:** In extremely difficult no till conditions such as hard packed soil it may be necessary to fluid fill the transport tires to add weight to the rear of the cart forcing the coulters to cut. The spring adjustment nut on the coulters can also be tightened.

**IMPORTANT:** Do not adjust the coulter depth so deep that the coulter hubs are running in the soil. This will cause premature bearing failure.

## MAINTENANCE



**WARNING:** Never clean, lubricate or adjust a machine that is in motion. Failure to heed may result in serious personal injury or death.

### COULTER BLADE WEAR

Blade wear can affect performance in loose trash conditions. Maintaining depth and plugging problems can result. It may be necessary to replace blades.



**WARNING:** If required to service unit in raised position, be sure to install all transport lock pins and locking bracket. Failure to heed may result in serious personal injury or death.

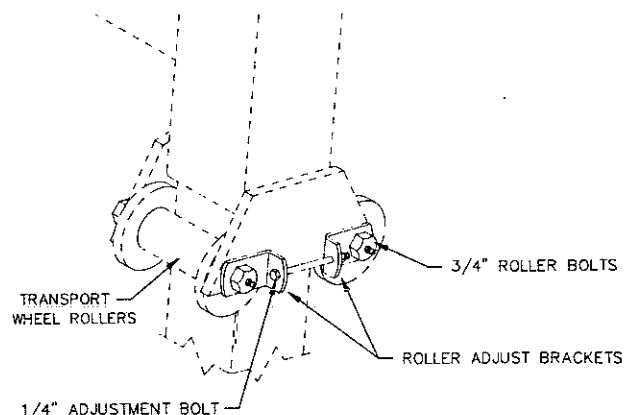


**DANGER:** Inspect and replace worn or frayed hydraulic hose. Keep all connections tight. Escaping hydraulic fluid under pressure can have sufficient force to penetrate the skin and cause serious personal injury. Fluid escaping from a small hole can be almost invisible. Use a piece of cardboard or wood rather than the hands to search for suspected leaks. Failure to heed may result in serious personal injury or death.

## TRANSPORT ROLLER ADJUSTMENT

Check and adjust transport wheel rollers if necessary every 100 hours.

To adjust transport wheel rollers loosen 3/4" roller bolts and adjust 1/4" bolt as necessary to eliminate transport wheel wobble. **Ensure that rollers do turn** when cart is raised and lowered, then tighten the 3/4" roller bolts.



# LUBRICATION



**WARNING:** Never clean, lubricate or adjust a machine that is in motion. Failure to heed may result in serious personal injury or death.

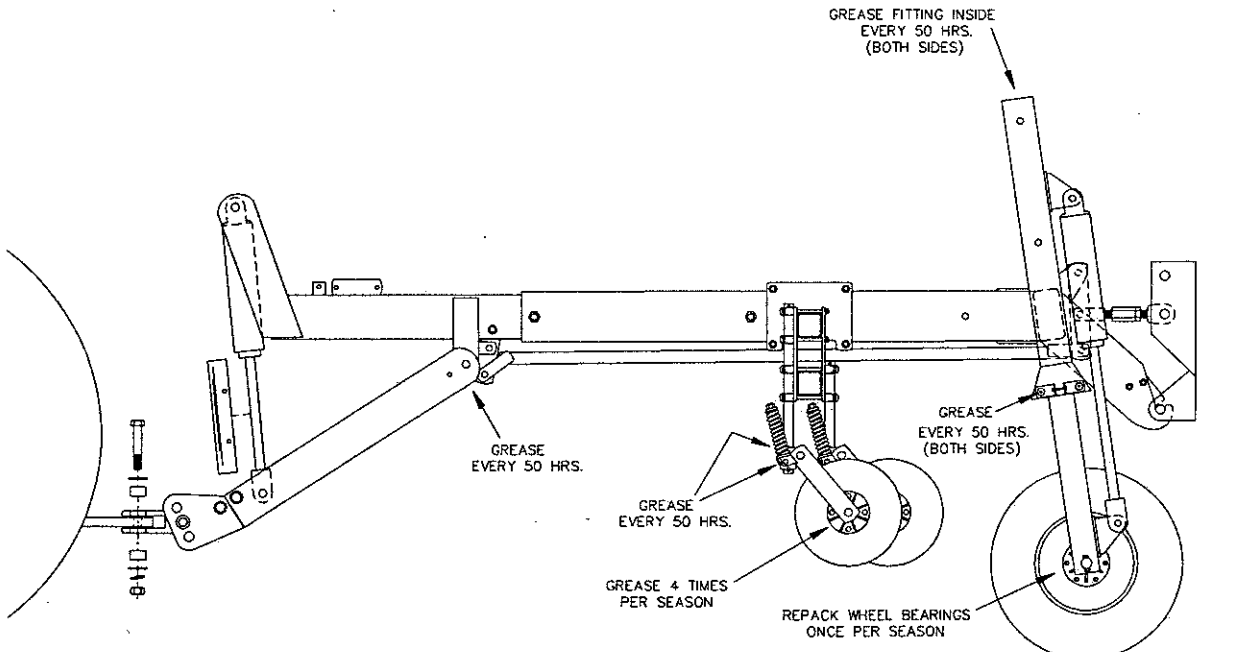
Grease with general purpose grease.

There is a grease fitting on each transport frame guide roller and one inside the transport guide tube. This latter fitting can only be greased when the transport pin has been removed and the unit has been completely lowered. Grease every 50 hours.

Ensure that transport wheel rollers do turn when cart is raised and lowered. Adjust 1/4" bolt as necessary. See page 11.

Each coulter assembly has (3) grease fittings. Grease the (2) fittings on the pivots weekly. Grease the hub four times per season.

There is a grease fitting on the equalizer linkage pivot near the front where the hitch tongue attaches to the center frame. Grease every 50 hours.



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## COULTER ADJUSTMENTS

### COULTER SPRING TENSION

Normal tension is by adjusting the 3/4" locknuts until 3/4" of thread is exposed above the nut. In hard or dry conditions additional coulter pressure may be obtained by tightening the locknut down 1" further.

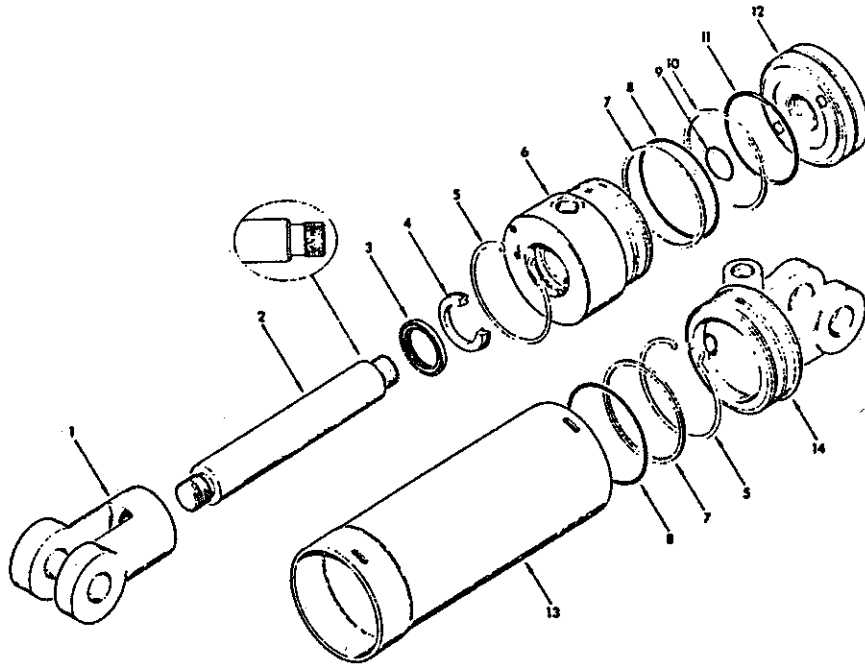
### COULTER BLADE TRACKING

Minor adjustments to align the coulter blades with the attached implement can be made by loosening the set bolt in the shank clamps and rotating the offset shanks to move the blade along the axis of the tool bar.

**IMPORTANT:** Do not adjust the coulter depth so deep that the coulter hubs are running in the soil, this will cause premature bearing failure. See coulter operation manual for further information.

# CYLINDER

## Inspection/Serviceing



### Parts Breakdown for Cylinders

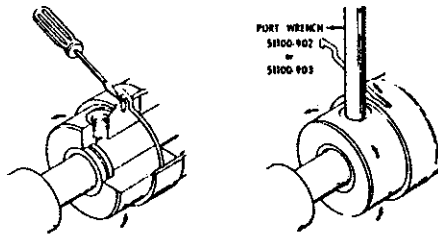
Ref.	Description	4-1/4 x 16	4 x 20	4-1/4 x 20
1	Rod End Clevis	2515-538	2515-569	2515-576
2	Piston Rod	2515-584	2515-570	2515-577
3	Wiper Seal	2515-480*	2515-481*	2515-480*
4	U-Cup Seal	2515-480*	2515-481*	2515-480*
5	Lock Ring	2515-571	2515-571	2515-578
6	Bearing	2515-572	2515-572	2515-579
7	Back Up Washer	2515-480*	2515-481*	2515-480*
8	O Ring	2515-480*	2515-481*	2515-480*
9	O Ring	2515-480*	2515-481*	2515-480*
10	Slipper Ring	2515-480*	2515-481*	2515-480*
11	O Ring	2515-480*	2515-481*	2515-480*
12	Piston	2515-573	2515-573	2515-580
13	Barrel	2515-585	2515-574	2515-581
14	Head	2515-586	2515-575	2515-582

\*Denotes Seal Kit

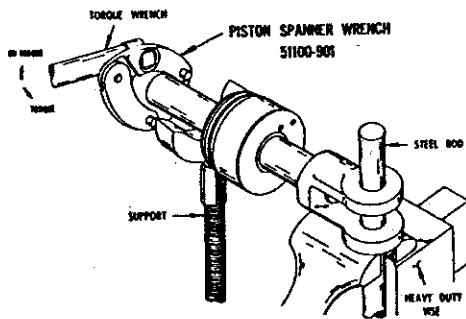
ATTN: Brad

## DISASSEMBLY

1. Drain oil from cylinder and plug all ports. Thoroughly clean outside of cylinder.
2. Clamp barrel of cylinder in vise near head end.  
NOTE: Scribe line across barrel and bearing to assure proper reassembly.
3. Remove lock ring (5) on bearing end (6) by lifting up on lock ring at the slot with a screwdriver while rotating the bearing. The bearing can be rotated by installing the proper size port wrench in work port in bearing. (A strap wrench or pipe wrench may be used if special port wrench is not available.)



4. Pull out on rod assembly (2) until piston (12) touches bearing (6), then pull on rod (2) until back-up washer (7) and o-ring (8) are exposed under slot in barrel. Use an o-ring hook tool to pull out on o-ring and back-up washer through slot. Cut both items and pull out through slot in barrel.
5. Remove piston assembly from barrel.



6. Clamp the appropriate size 8" long steel rod (same diameter as pin hole in clevis) in a heavy duty vise in a vertical position and slide clevis end of cylinder rod over steel rod.
7. Rest piston rod on an appropriate support to keep rod from moving while loosening piston.
8. Use spanner wrench and 3/4" socket drive to loosen piston from rod.  
NOTE: It is only necessary to remove the piston from the rod to properly service the seals in the cylinder. Occasionally the clevis may loosen from the rod before the piston. In the event the clevis should loosen first, use the spanner wrench to retorque the piston and clevis to the rod to the proper torque as noted in the torque chart. Retorque the piston until it moves on the rod. Once again use the spanner wrench to remove the piston from the rod, the piston will now loosen before the clevis.
9. Remove bearing (6) from rod (2).
10. Remove lock ring (5) from head end (14) of cylinder using the same procedure as described when removing the bearing from the barrel. Cut and remove back-up washer (7) and o-ring (8) then remove head end (14) from barrel.
11. Remove all o-rings, slipper ring, back-up washers, u-cup seal and wiper seal from parts.

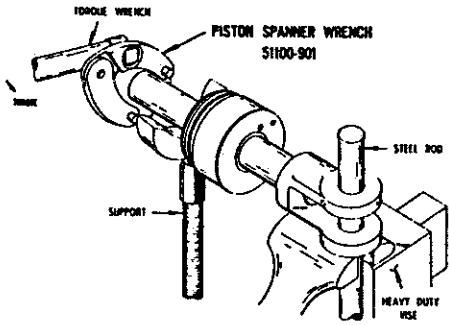
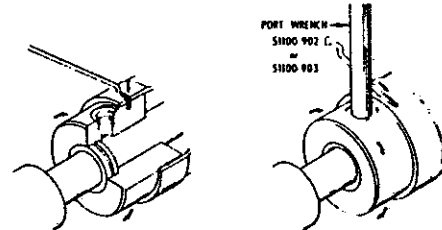
## INSPECTION

The o-rings, slipper ring, back-up washers, u-cup seal and lock rings need not be inspected as they are included in the seal repair kit available for these cylinders and should be replaced as new items.

1. Remove all nicks and burrs from all parts with emery cloth.
2. Inspect I.D. of barrel for scoring and excessive wear.
3. Inspect rod for dents, scratches, scoring or pitting.
4. Inspect O.D. of piston for scoring.

# REASSEMBLY

- Clean and dry all parts thoroughly. All parts should be lightly oiled prior to assembly.
- Install new u-cup seal (4) in I.D. of bearing (6) with u-groove towards pressure side of cylinder (inside of cylinder).
- Install new wiper seal (3) in I.D. of bearing with lip outward.
- Install new back-up washer (7) and o-ring (8) on O.D. of bearing (6) with o-ring towards pressure side.
- Install new back-up washer (7) and o-ring (8) on O.D. of head end (14) with o-ring towards pressure side.
- Oil rod and carefully slide bearing (6) over rod with a straight forward motion.  
NOTE: One end of rod has a slight chamfer on O.D. to aid the installation of the bearing over the rod. Always assemble chamfered end of rod through the u-cup and rod wiper seals.
- Install new o-ring (9) in I.D. of piston (12) and install piston to chamfered end of rod (2).
- Place support under rod and place clevis on the vertical steel rod in vise. Use 3/4" drive torque wrench and spanner wrench and retorque clevis and piston to rod per the torque specifications required in torque chart.  
NOTE: It is extremely important that the piston and clevis be retorqued to the required torque specifications.
- Clamp barrel assembly in vise and carefully slip in head end (14). (Caution: It may be necessary to use a blunt tool to depress seals as they pass under slot in barrel.) Line up lock ring hole in the head with the lock ring groove in the cylinder barrel. Insert lock ring (5) in the hole in head and rotate head in a counterclockwise direction until lock ring enters slot in barrel. Guide end of wire into slot then lightly tap end down into slot with hammer.
- Lubricate O.D. of piston and insert rod and piston assembly into barrel with a straightforward motion. Lubricate bearing O.D. and slide bearing into barrel. (Caution: It may be necessary to use a blunt tool to depress seals as they pass under slot in barrel.) Line up lock ring groove in barrel using original scribe line as a guide.
- Insert lock ring (5) and rotate bearing in a clockwise direction until lock ring enters slot in barrel. Guide end of wire into slot then lightly tap end down into slot with hammer. Make sure work port is in its original position and scribe lines are in line.



- Cycle cylinder and check for leaks.

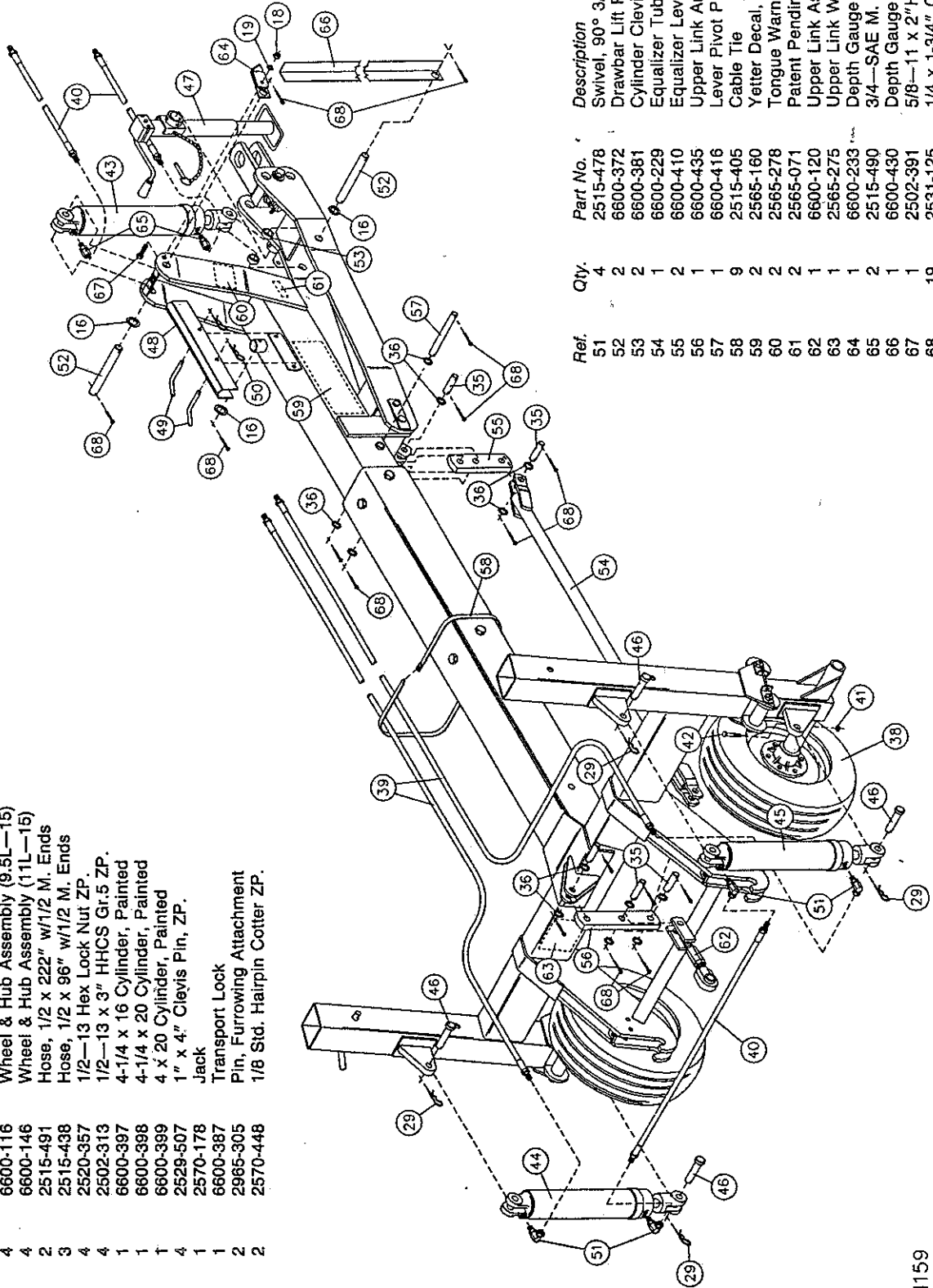
## TORQUE SPECIFICATIONS FOR PISTON AND ROD CLEVIS

Rod Size	Rod Thread Size	Actual Ft Lbs of Torque	Torque Wrench Setting Using Spanner Wrench
1-1/8" Dia.	15/16 - 16 UN	100	No Holes
1-1/4" Dia.	1 - 16 UN	205	185
1-3/8" Dia.	1-1/6 - 16 UN	285	255
1-1/2" Dia.	1-3/16 - 16 UN	335	300
1-5/8" Dia.	1-5/16 - 16 UN	425	385
1-3/4" Dia.	1-7/16 - 16 UN	490	440
1-7/8" Dia.	1-9/16 - 16 UN	555	500
2" Dia.	1-11/16 - 16 UN	705	635

- Install new o-ring (11), the one with the red dot, on O.D. of piston, carefully work the slipper ring (10) over piston and into groove. The slipper ring will stretch as it is installed on the piston and it must be compressed after installation to help retain its original size. An automotive ring compressor or a smooth hose clamp is recommended as a field tool to compress the slipper ring.

# PARTS IDENTIFICATION

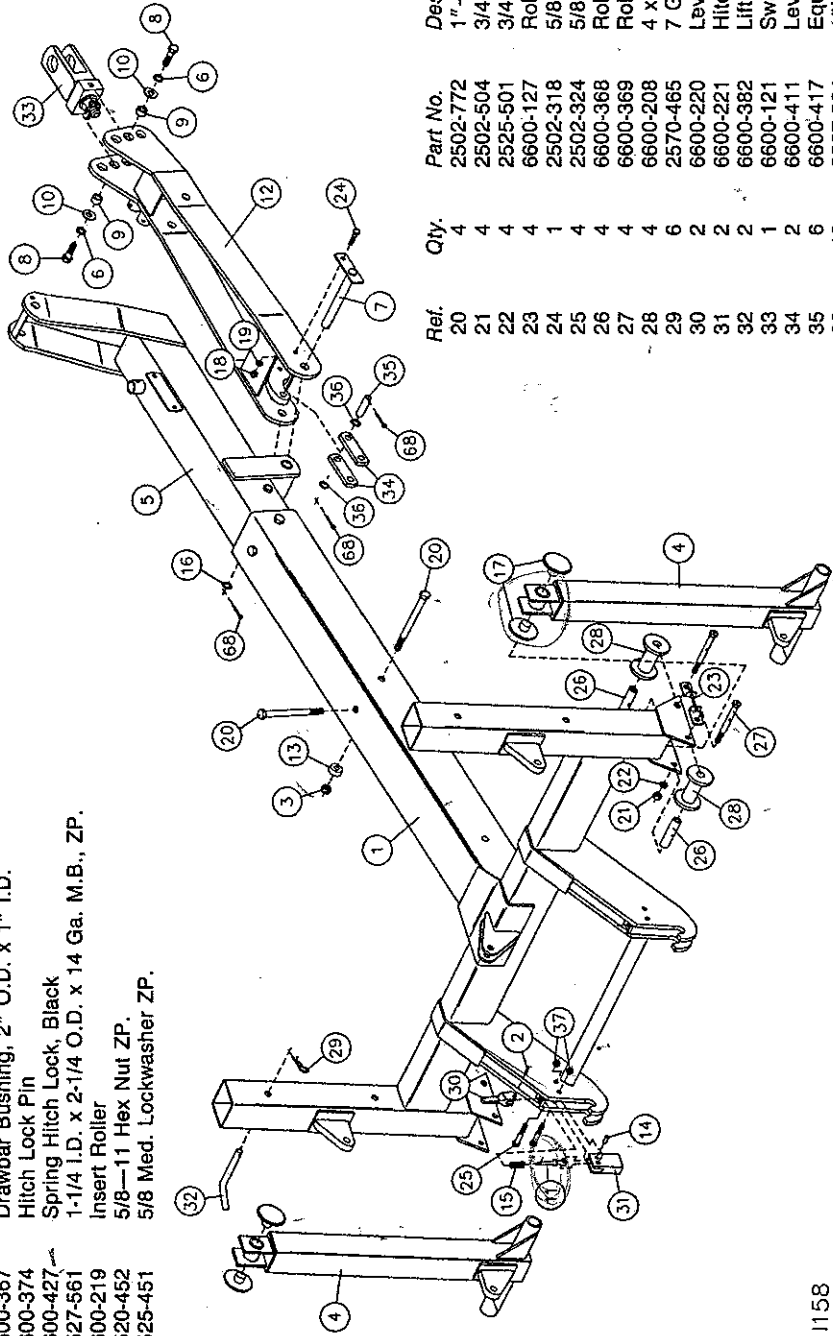
Ref.	Qty.	Part No.	Description
38	4	6600-116	Wheel & Hub Assembly (9.5L-15)
39	4	6600-146	Wheel & Hub Assembly (11L-15)
40	2	2515-491	Hose, 1/2 x 222" w/1/2 M. Ends
41	3	2515-438	Hose, 1/2 x 96" w/1/2 M. Ends
42	4	2520-357	1/2-13 Hex Lock Nut ZP.
43	4	2502-313	1/2-13 x 3" HHCS Gr.5 ZP.
44	1	6600-397	4-1/4 x 16 Cylinder, Painted
45	1	6600-399	4 x 20 Cylinder, Painted
46	4	2529-507	1" x 4" Clevis Pin, ZP.
47	1	2570-178	Jack
48	1	6600-387	Transport Lock
49	2	2965-305	Pin, Furrowing Attachment
50	2	2570-448	1/8 Std. Hairpin Cotter ZP.



Ref.	Qty.	Part No.	Description
51	4	2515-478	Swivel, 90° 3/4-16 x 1/2 NP
52	2	6600-372	Drawbar Lift Pin
53	2	6600-381	Cylinder Clevis Spacer
54	1	6600-229	Equalizer Tube W.A., 94-1/2"
55	2	6600-410	Equalizer Lever
56	1	6600-435	Upper Link Arm, 15-1/2"
57	1	6600-416	Lever Pivot Pin
58	9	2515-405	Cable Tie
59	2	2565-160	Yetter Decal, 5-1/2" x 15-3/4"
60	2	2565-278	Tongue Warning Decal
61	2	2565-071	Patent Pending Decal
62	1	6600-120	Upper Link Assembly
63	1	2565-275	Upper Link Warning Decal
64	1	6600-233	Depth Gauge Bar W.A.
65	2	2515-490	3/4-SAE M. to 1/2 NPTF F. Adaptor
66	1	6600-430	Depth Gauge Angle
67	1	2502-391	5/8-11 x 2" HHCS Gr.2 ZP.
68	19	2531-125	1/4 x 1-3/4" Cotter Pin ZP.

# PARTS IDENTIFICATION

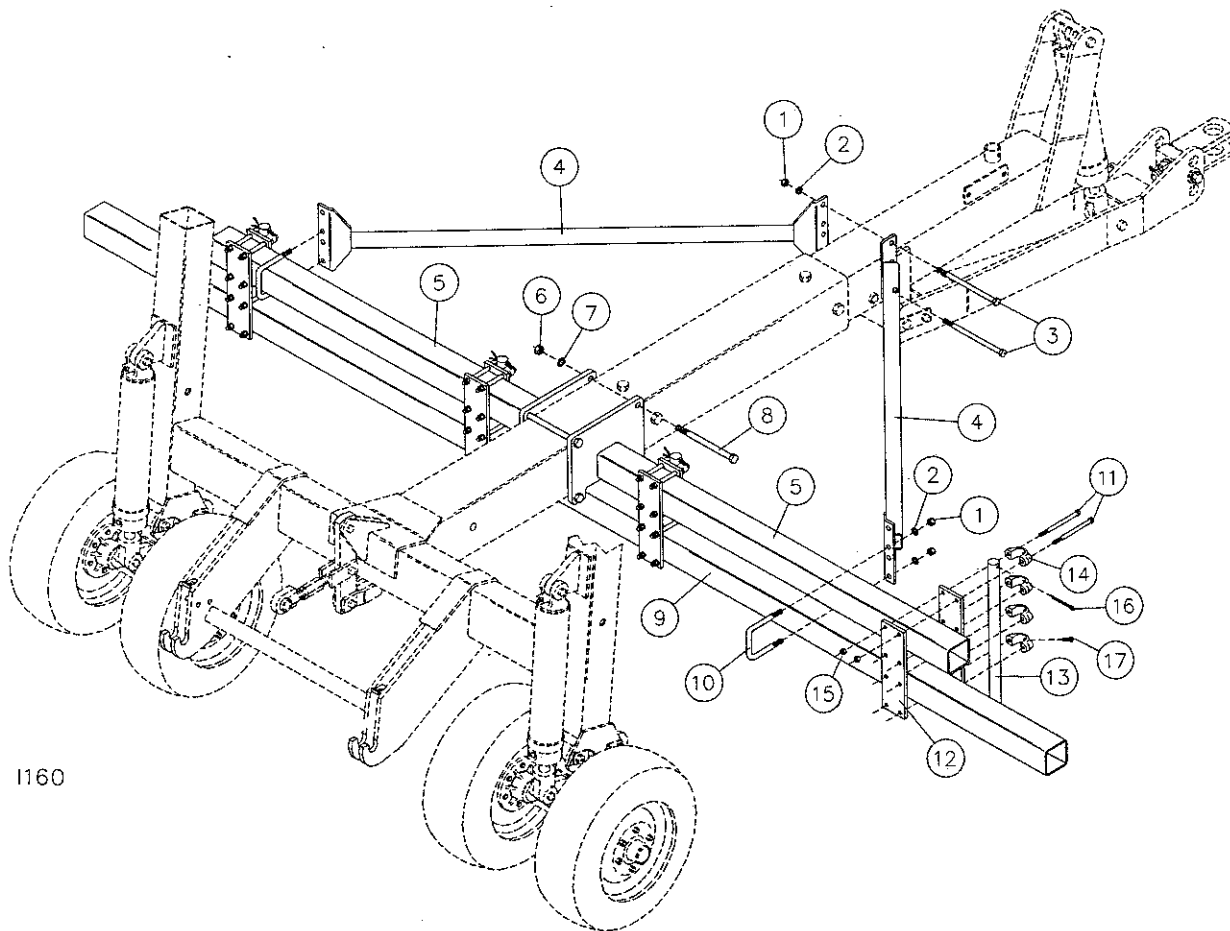
Ref.	Qty.	Part No.	Description
1	1	6600-206	Rear Main Frame W.A.
2	2	2529-203	1/4 x 1-1/4" Dowel Pin
3	4	2520-555	1" - 8 Hex Nut ZP.
4	2	6600-202	Lift Wheel Insert W.A.
5	1	6600-203	Extension Drawbar W.A.
6	2	2525-528	7/8 Med. Lockwasher ZP.
7	1	6600-205	Lift Arm Pivot Pin W.A.
8	2	2502-600	7/8 - 9 x 2" HHCS Gr.5 ZP.
9	2	6600-404	Swivel Bushing
10	2	2526-526	7/8 Std. Flatwasher
11	2	6600-207	Hitch Lock Push Rod
12	1	6600-204	Drawbar Lift Arm W.A.
13	4	6600-367	Drawbar Bushing, 2" O.D. x 1" I.D.
14	2	6600-374	Hitch Lock Pin
15	2	6600-427	Spring Hitch Lock, Black
16	4	2527-561	1-1/4 I.D. x 2-1/4 O.D. x 14 Ga. M.B., ZP.
17	4	6600-219	Insert Roller
18	2	2520-452	5/8 - 11 Hex Nut ZP.
19	2	2525-451	5/8 Med. Lockwasher ZP.



Ref.	Qty.	Part No.	Description
20	4	2502-772	1" - 8 x 9" HHCS Gr.5 ZP.
21	4	2502-504	3/4 - 10 Hex Nut ZP.
22	4	2525-501	3/4 Med. Lockwasher ZP.
23	4	6600-127	Roller Adjustment Assembly
24	1	2502-318	5/8 - 11 x 1-1/2" HHCS Gr.2 ZP.
25	4	2502-324	5/8 - 11 x 3-1/2" HHCS Gr.5 ZP.
26	4	6600-368	Roller Bushing
27	4	6600-369	Roller Bolt
28	4	6600-208	4 x 4 Roller
29	6	2570-465	7 Ga. Hairpin Cotter ZP.
30	2	6600-220	Lever, Lock
31	2	6600-221	Hitch Lock
32	2	6600-382	Lift Wheel Pin
33	1	6600-121	Swivel Clevis Assembly
34	2	6600-411	Lever Link
35	6	6600-417	Equalizer Link Pin
36	16	2527-564	1" I.D. x 1-1/2 O.D. x 14 Ga. M.D., ZP.
37	4	2520-458	5/8 - 11 Hex Lock Nut ZP.

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# PARTS IDENTIFICATION



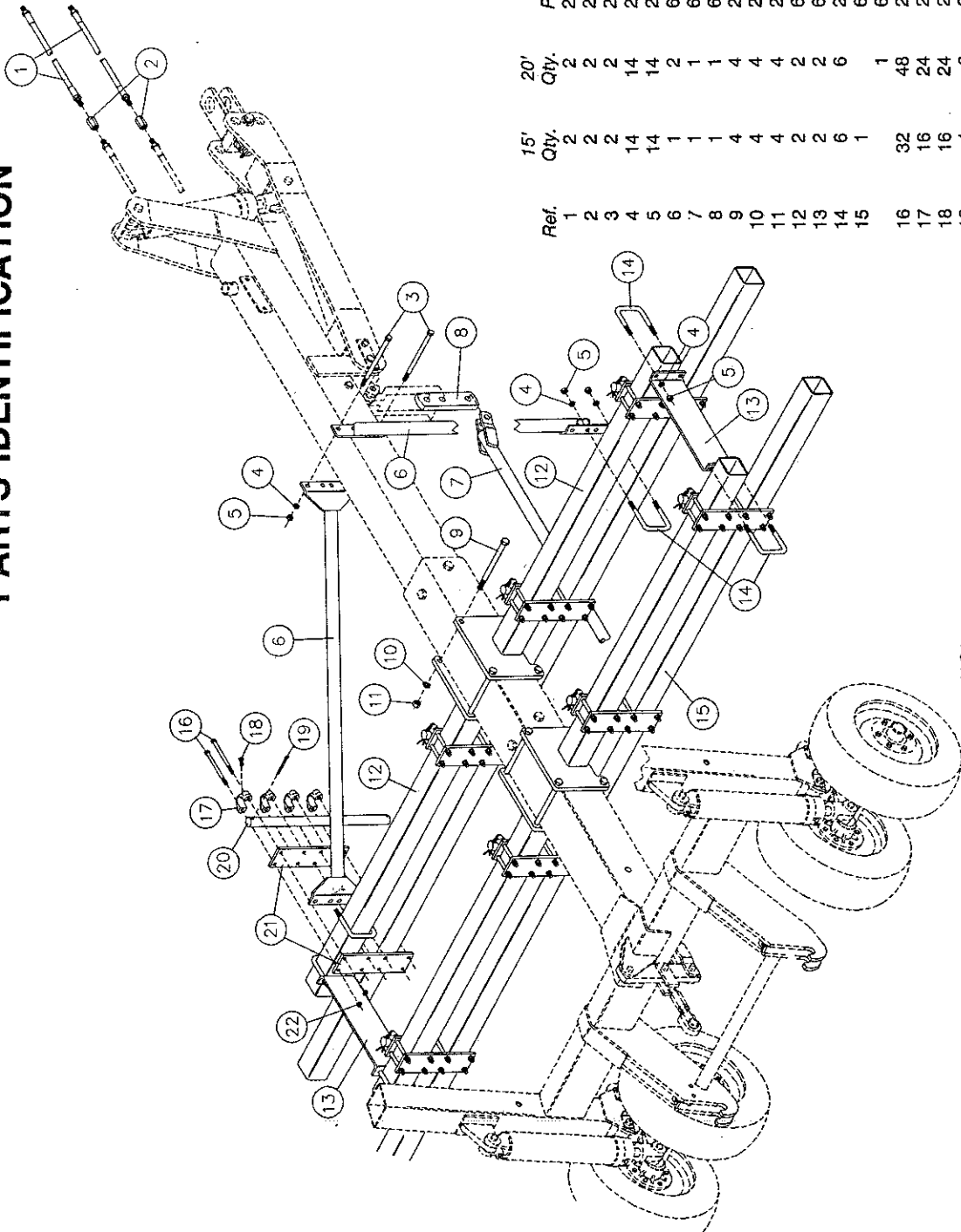
1160

## Cart Toolbar Assembly

Ref.	15' Qty.	20' Qty.	Part No.	Description
1	6	6	2520-452	5/8—11 Hex Nut ZP.
2	6	6	2525-451	5/8 Med. Lockwasher ZP.
3	2	2	2502-333	5/8—11 x 9" HHCS Gr.5 ZP.
4	2	2	6600-262	Universal Toolbar Brace W.A.
5	2	2	6600-209	4 x 4 Hanger W.A.
6	4	4	2520-504	3/4—10 Hex Nut ZP.
7	4	4	2525-501	3/4 Med. Lockwasher ZP.
8	4	4	2502-520	3/4—10 x 11" HHCS Gr.5 ZP.
9	1	1	6600-418	15' Toolbar, Black
		1	6600-419	20' Toolbar, Black
10	2	2	2570-588	5/8 x 4 x 5-1/2 U-Bolt ZP.
11	32	48	2502-371	1/2—13 x 7" HHCS Gr.5 ZP.
12	8	12	6600-365	Double Clamp Plate
13	4	6	2990-350	Shank, 1-1/2 x 27-1/8"
14	16	24	2990-360	Clamp Casting, Drilled
15	32	48	2520-357	1/2—13 Hex Lock Nut ZP.
16	4	6	2531-161	5/16 x 2-1/2 Cotter Pin ZP.
17	16	24	2503-352	5/8—11 x 1 Sq. Hd. Cuppoint Setscr.



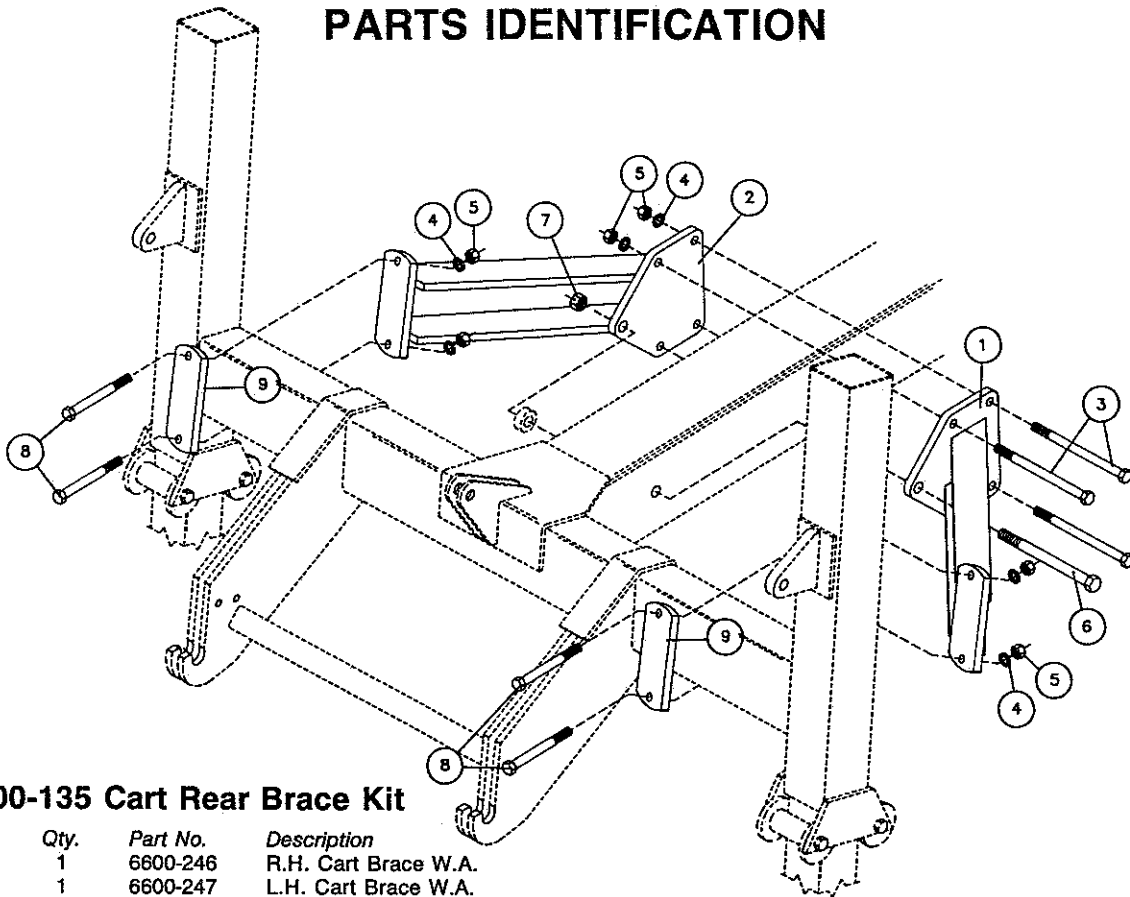
# PARTS IDENTIFICATION



Ref.	15' Qty.	20' Qty.	Part No.	Description
1	2	2	2515-486	Hose, 1/2 x 3/4" W/1/2 M. Ends
2	2	2	2515-414	St. Swivel 1/2 F. to 1/2 F. NPSM
3	2	2	2502-333	5/8--11 x 9" HHCS Gr.5 ZP.
4	14	14	2525-451	5/8 Med. Lockwasher ZP.
5	14	14	2520-452	5/8--11 Hex Nut ZP.
6	1	2	6600-262	Universal Toolbar Brace W.A.
7	1	1	6600-234	Equalizer Tube W.A., 128-3/8"
8	1	1	6600-434	Equalizer Lever, 10-1/4"
9	4	4	2502-520	3/4--10 x 11" HHCS Gr.5 ZP.
10	4	4	2525-501	3/4 Med. Lockwasher ZP.
11	4	4	2520-504	3/4--10 Hex Nut ZP.
12	2	2	6600-209	4 x 4 Hanger W.A.
13	2	2	6600-345	Toolbar Bracket
14	6	6	2570-588	5/8 x 4 x 5-1/2 U-Bolt ZP.
15	1	1	6600-418	15' Toolbar, Black
16	32	48	6600-419	20' Toolbar, Black
17	16	24	2502-371	1/2--13 x 7" HHCS Gr.5 ZP.
18	16	24	2990-360	Clamp Casting, Drilled
19	4	6	2503-379	5/8--11 x 1" Sq. Hd. Cuppoint Setscr.
20	4	6	2531-161	5/16 x 2-1/2" Cotter Pin ZP.
21	4	6	2990-350	Shank, 12-1/2 x 27-1/8"
22	16	12	6600-365	Double, Clamp Plate
	32	48	2520-357	1/2--13 Hex Lock Nut ZP.

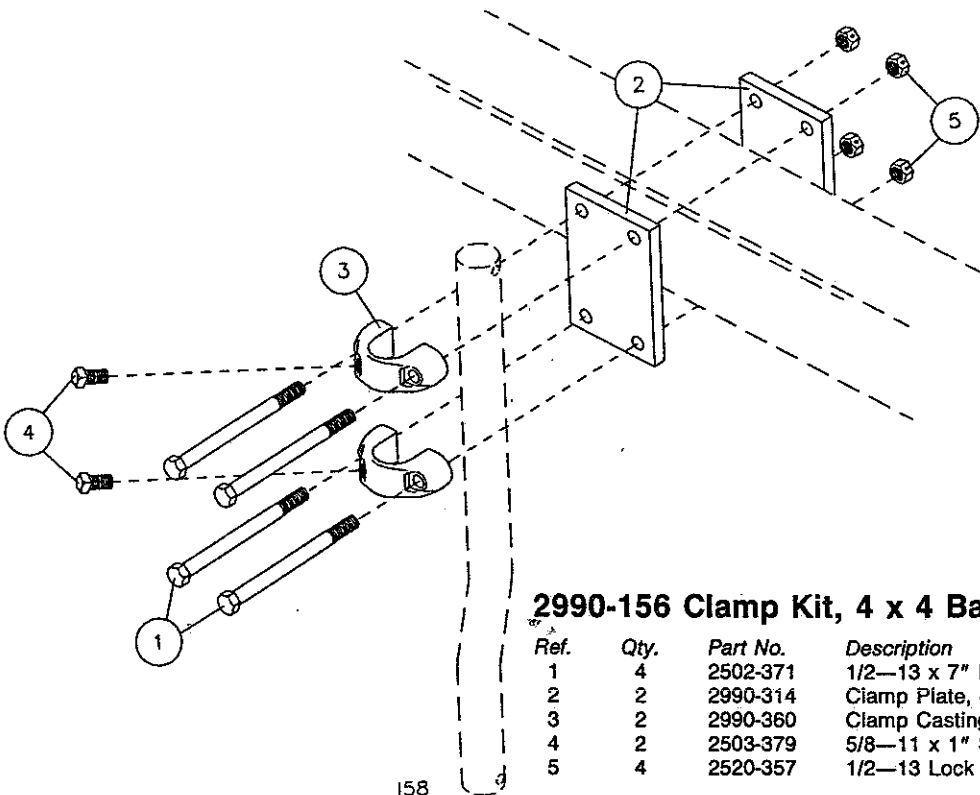
1161

# PARTS IDENTIFICATION



## 6600-135 Cart Rear Brace Kit

Ref.	Qty.	Part No.	Description
1	1	6600-246	R.H. Cart Brace W.A.
2	1	6600-247	L.H. Cart Brace W.A.
3	4	2502-520	3/4—10 x 11" HHCS Gr.5 ZP.
4	8	2525-501	3/4 Med. Lockwasher ZP.
5	8	2520-504	3/4—10 Hex Nut ZP.
6	1	2502-774	1"—8 x 11" HHCS Gr.5 ZP.
7	1	2520-562	1"—8 Lock Hex Nut ZP.
8	4	2502-509	3/4—10 x 7" HHCS Gr.5 ZP.
9	2	6600-471	Brace Mounting Strap, Black

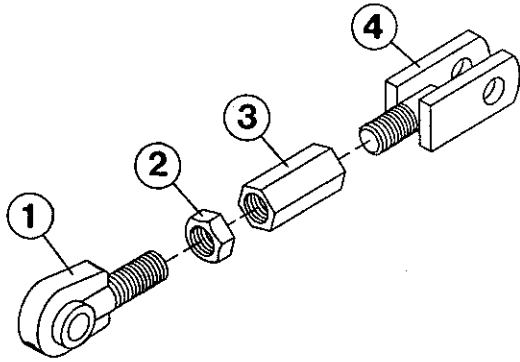


## 2990-156 Clamp Kit, 4 x 4 Bar

Ref.	Qty.	Part No.	Description
1	4	2502-371	1/2—13 x 7" Hex Hd. Capscrew Gr.5 ZP.
2	2	2990-314	Clamp Plate, 4" Sq. & 3" Diamond Bar
3	2	2990-360	Clamp Casting, Drilled
4	2	2503-379	5/8—11 x 1" Square Head Cuppoint Screw
5	4	2520-357	1/2—13 Lock Hex Nut ZP.

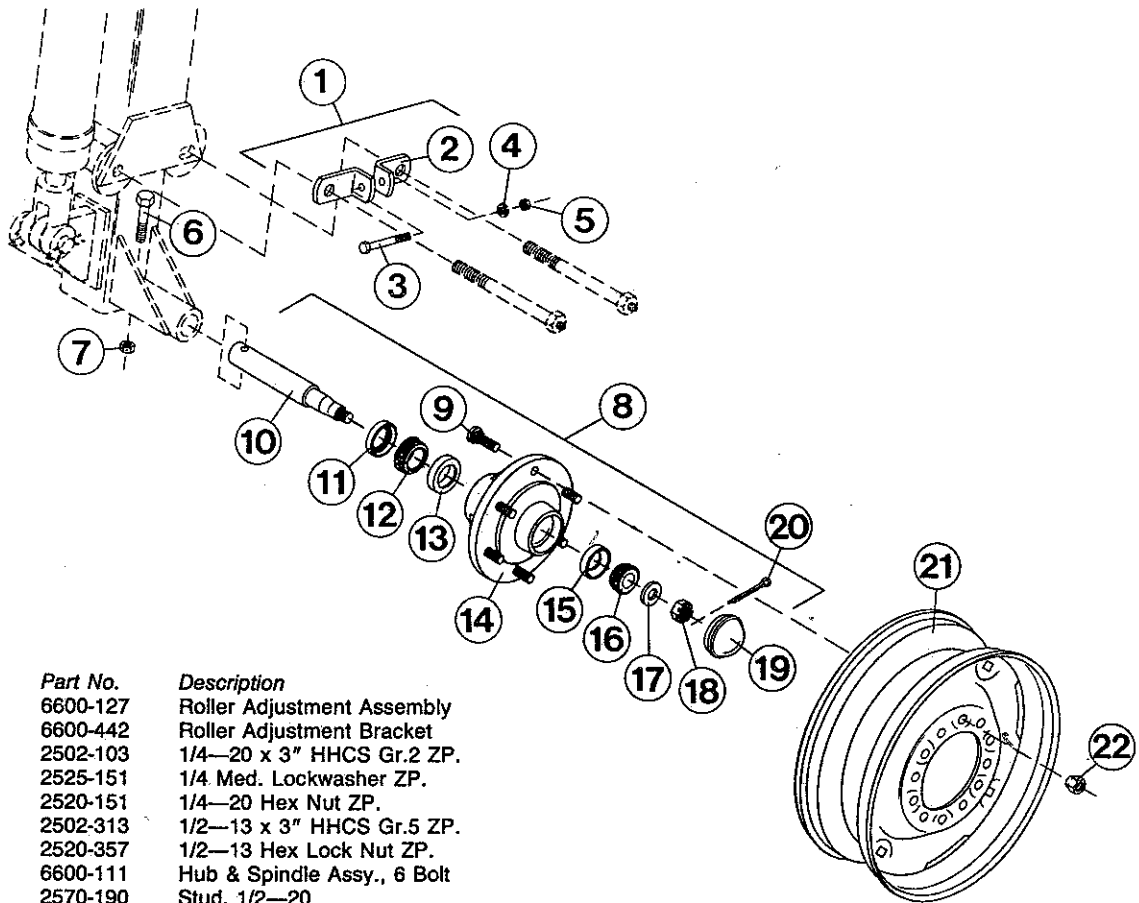
# PARTS IDENTIFICATION

## 6600-120 Upper Link Assembly



Ref.	Qty.	Part No.	Description
1	1	6600-230	Upper Link, Drill End
2	1	2520-566	1-1/8—7 Hex Jam Nut ZP.
3	1	6600-423	Upper Link Adjust
4	1	6600-231	Upper Link, Cart End

*turn buckle*



Ref.	Qty.	Part No.	Description
1	4	6600-127	Roller Adjustment Assembly
2	2	6600-442	Roller Adjustment Bracket
3	1	2502-103	1/4—20 x 3" HHCS Gr.2 ZP.
4	1	2525-151	1/4 Med. Lockwasher ZP.
5	1	2520-151	1/4—20 Hex Nut ZP.
6	4	2502-313	1/2—13 x 3" HHCS Gr.5 ZP.
7	4	2520-357	1/2—13 Hex Lock Nut ZP.
8	4	6600-111	Hub & Spindle Assy., 6 Bolt
9	6	2570-190	Stud, 1/2—20
10	1	6600-336	Spindle, 1-3/4" Drilled
11	1	2570-191	Seal
12	1	2550-027	Cone
13	1	2550-029	Cup
14	1	2570-189	Hub W/Cups, Lugs
15	1	2550-013	Cup, W.G.
16	1	2550-012	Cone, W.G.
17	1	2526-500	3/4 Std. Flatwasher, Black
18	1	2520-503	3/4—16 Slotted Hex Nut, Black
19	1	2570-192	Hub Cap
20	1	2531-106	3/16 x 1-3/4" Cotter Pin, Black
21	1	2570-181	Wheel, 15 x 8, White
	1	2570-184	Tire, 9.5L x 15, 12-Ply (Not Shown)
	1	2570-185	Tube, 9.5 x 15 (Not Shown)
	1	2570-725	Tire, 11L—15, 8 Ply (Not Shown)
	1	2570-726	Tube, 11L—15 (Not Shown)
22	6	2570-188	1/2—20 Lug Nut

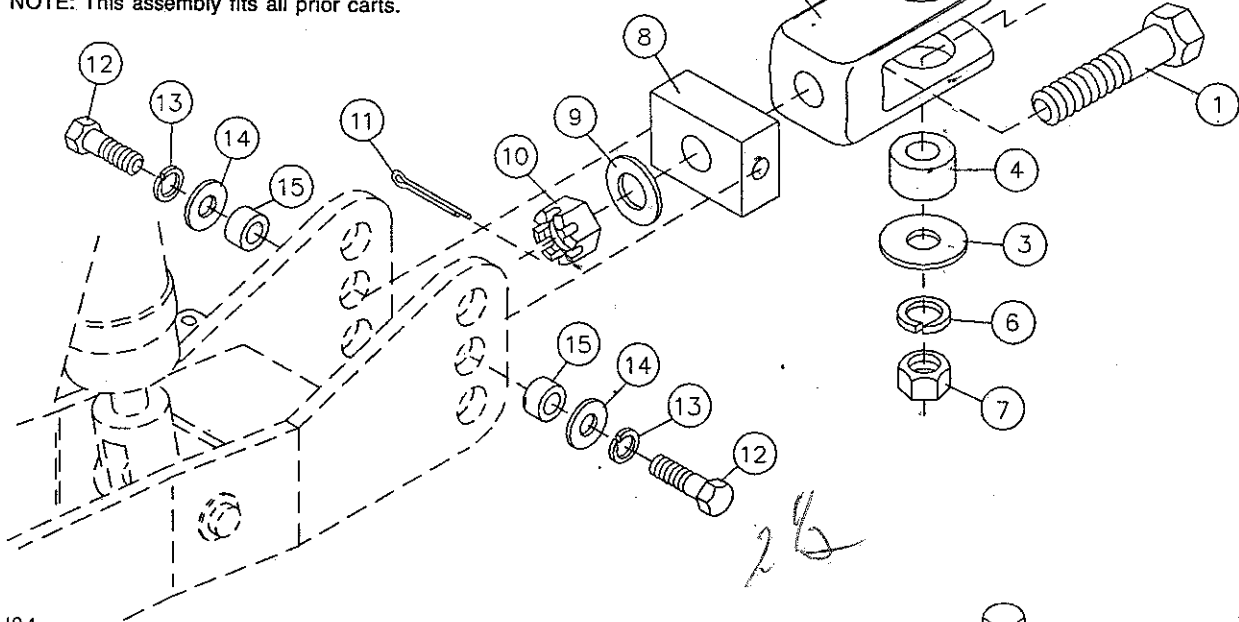
# PARTS IDENTIFICATION

2, 3, 4, 6, 7  
Belt Bag  
6600-117

## Clevis Assembly

Ref.	Qty.	Part No.	Description
1	1	6600-472	Clevis Pivot Bolt
2	1	2502-795	1-1/4-7 x 7" HHCS Gr.5 ZP.
3	2	2525-559	1-1/4 Std. Flatwasher ZP.
4	2	6600-473	2-1/2 O.D. x 1-9/32 I.D. Spacer
5	1	2555-065	Clevis Casting <i>Sub to 6600-223</i>
6	1	2525-552	1-1/4 Med. Lockwasher ZP.
7	1	2520-572	1-1/4-7 Hex Nut ZP.
8	1	6600-403	Swivel Mount Block
9	1	2526-578	1-1/2-Std. Flatwasher ZP.
10	1	2520-578	1-1/2-6 Slotted Hex Nut ZP.
11	1	2531-175	3/8 x 3-1/2" Cotter Pin, Black
12	2	2502-600	7/8-9 x 2" HHCS Gr.5 ZP.
13	2	2525-528	7/8 Med. Lockwasher ZP.
14	2	2526-526	7/8 Std. Flatwasher ZP.
15	2	6600-404	Swivel Bushing

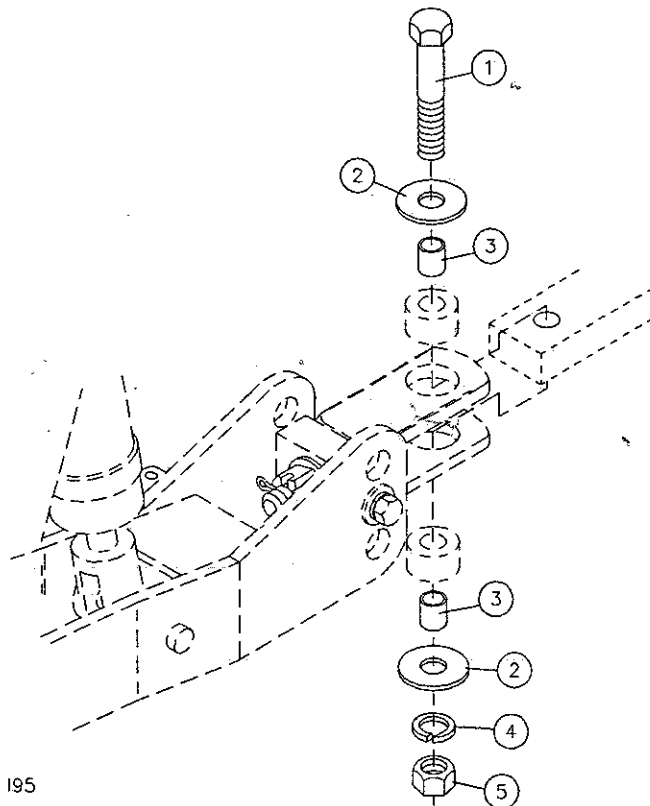
NOTE: This assembly fits all prior carts.



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## 6600-138 Clevis Adaptor Kit (For 1" Drawbar Holes)

Key	Qty.	Part No.	Description
1	1	2502-773	1-8 x 6" HHCS Gr.5 ZP.
2	2	2526-543	1" Std. Flatwasher ZP.
3	2	6600-428	Clevis Spacer, 1-1/4 O.D.
4	1	2525-550	1" Med. Lockwasher ZP.
5	1	2520-555	1"-8 Hex Nut ZP.



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ATTN: [Handwritten signature]

# SUMMARY OF ADJUSTMENTS AND SETTINGS

<i>Component</i>	<i>Setting</i>	<i>Method</i>
Drawbar	Drawbar Height 18" to 22"	Turn offset on drawbar over
Coulters	Coulter bar weight transfer	Locate coulter bar midway between drill openers and hitch point
	Improve trash flow	Alternate coulter front and rear of bar
	Coulter depth	Shank should rest on cotter pin  Down pressure springs adjusted equally (initial 3/4" thread showing) use front cylinder to adjust coulter depth
	Coulter swivel	Set coulter just above roll pin (not in notch) locking collar centered
Transport frame	Transport wheel rollers	Check and adjust transport wheel rollers as necessary. See page 11
Transport wheels	Tire pressure	Follow manufacturer's inflation specifications all four tires with equal pressure
3-point hitch	Use lower set of holes on drill	Connect cart top link to lower holes on the upper 3-pt. drill hitch  Adjust cart top link to no more than 5 threads exposed either end
Drill gauge (drive) wheels	Drill openers	Adjust to obtain appropriate seed depth

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