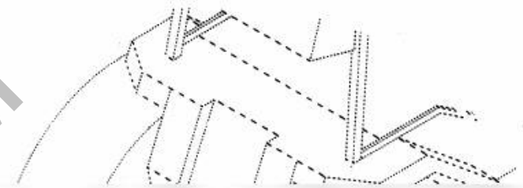
HYDRAULIC COMPONENTS LOCATION HORIZONTAL REAR FOLD PLANTER





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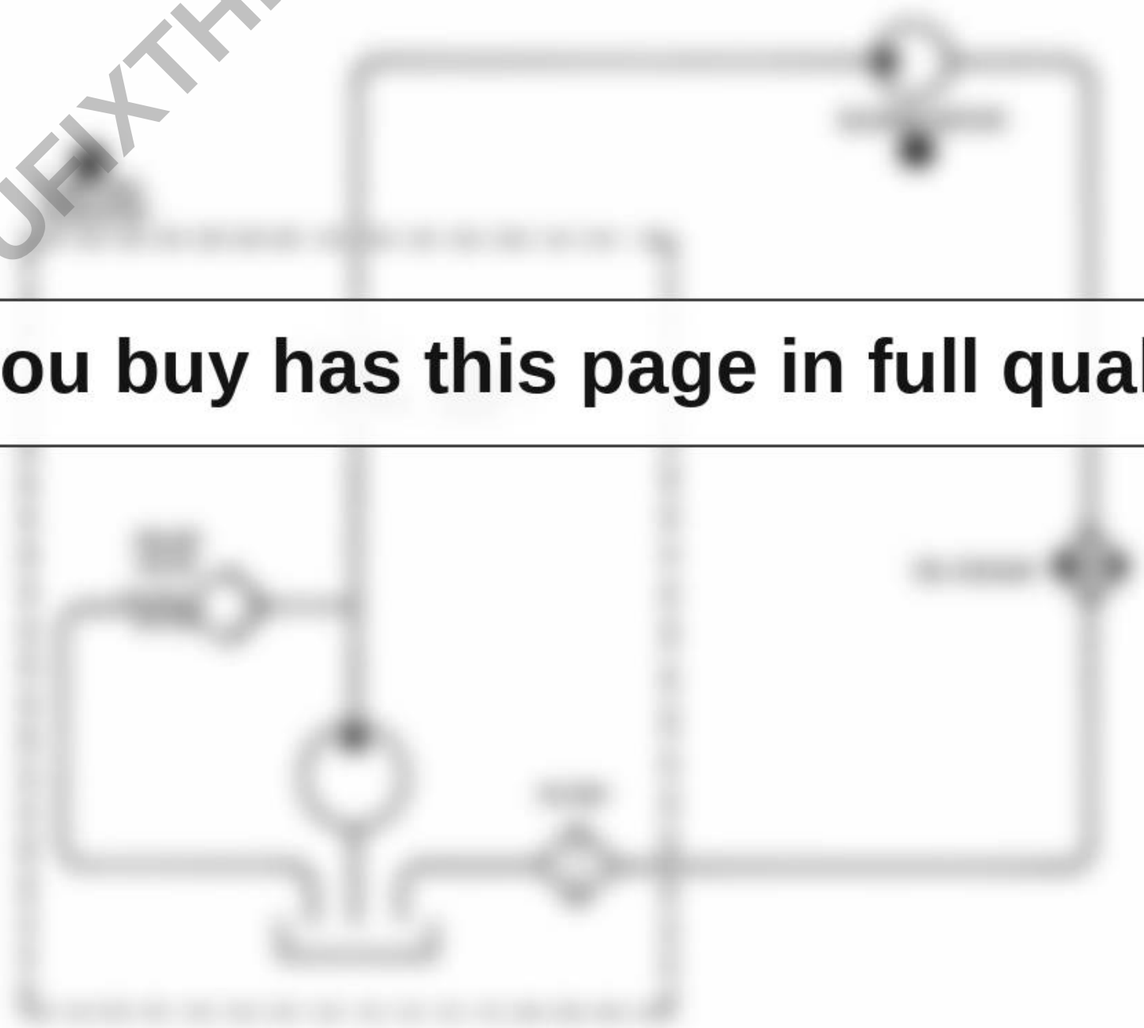
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PTO DRIVE BLOWER PUMP 1000 RPM
CYCLO AIR 4, 6 AND 8 ROW PLANTERS
Hydraulic Schematic

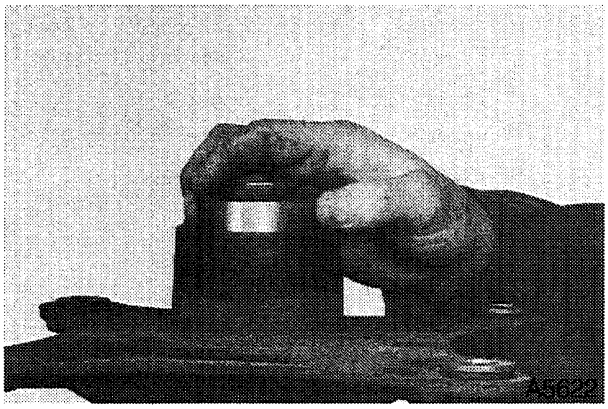


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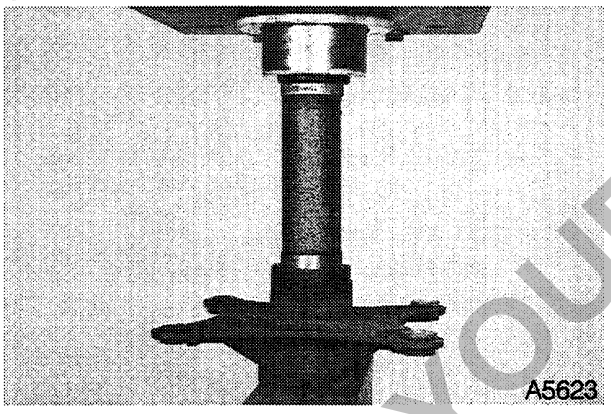
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STEP 46



Place a new bearing in the housing bore. Be sure the inner race extension is up.

STEP47



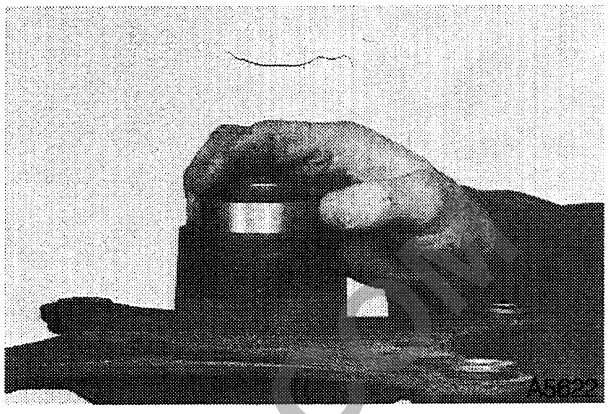
Support the bearing housing by the hub and press the bearing into the bore until seated.

STEP 48



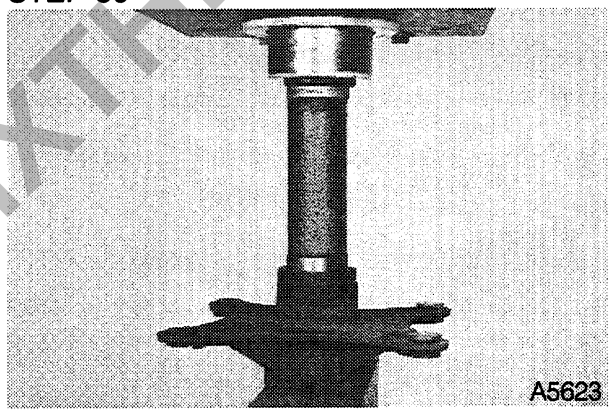
Install the spacer into the bore so that it is positioned on the inner race.

STEP 49



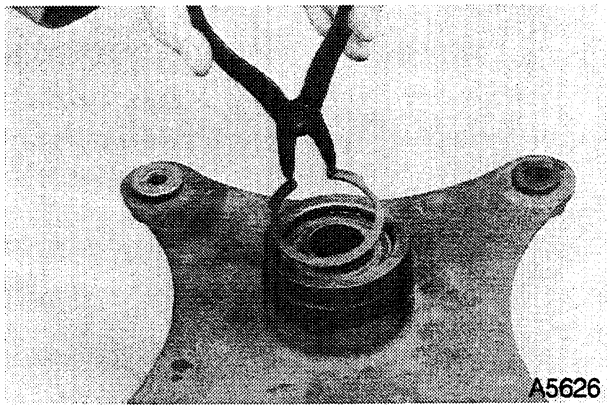
Place the second new bearing in the housing bore. Be sure the inner race extension is up.

STEP 50



Press the second bearing into the bore until it contacts the spacer.

STEP 51

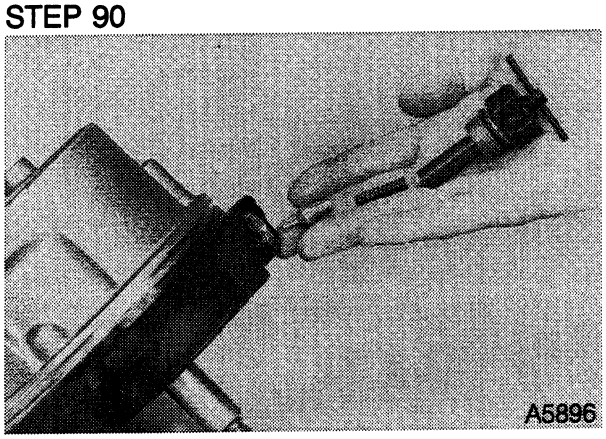


Install the retaining ring in the bore. Be sure the ring is seated in the ring groove.

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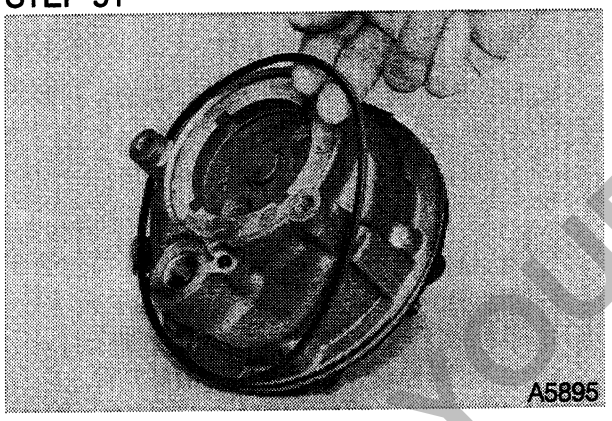
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STEP 90



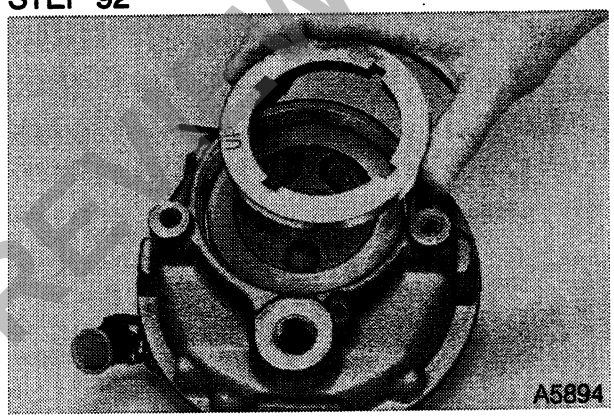
Remove the flow control stem assembly, valve spring and valve.

STEP 91



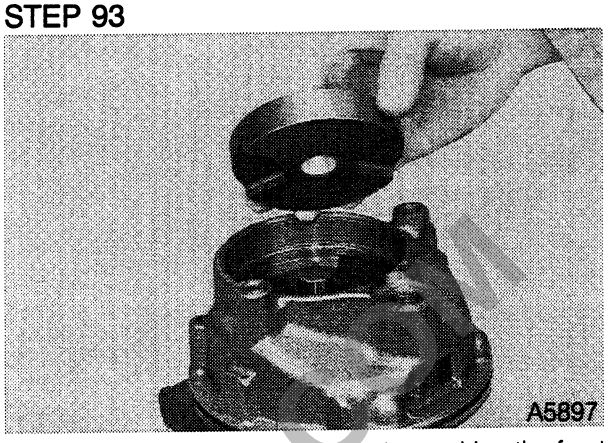
Remove the reservoir seal ring from around the pump body.

STEP 92



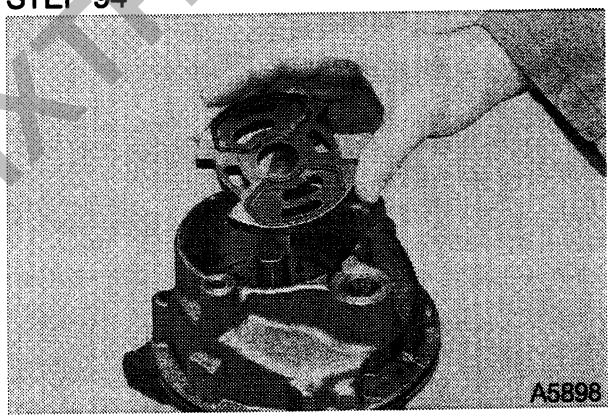
Remove the pump retainer ring.

STEP 93



Carefully remove the pump cover by pushing the front end of the drive shaft up slightly in order to grab the cover edges.

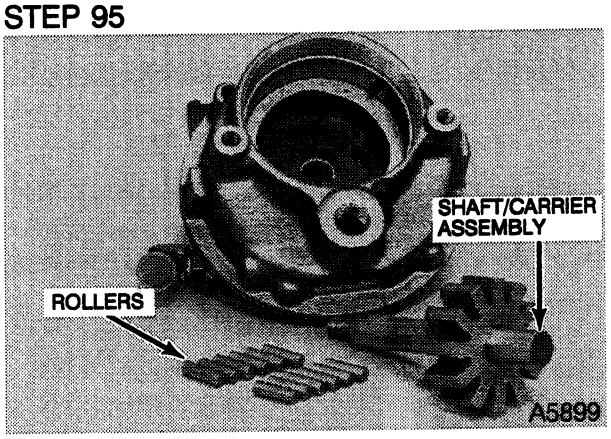
STEP 94



Remove the top end plate and seal rings. Put a mark on the plate for identification as the top plate.

NOTE: *The top end plate has four small timing marks on the bottom side.*

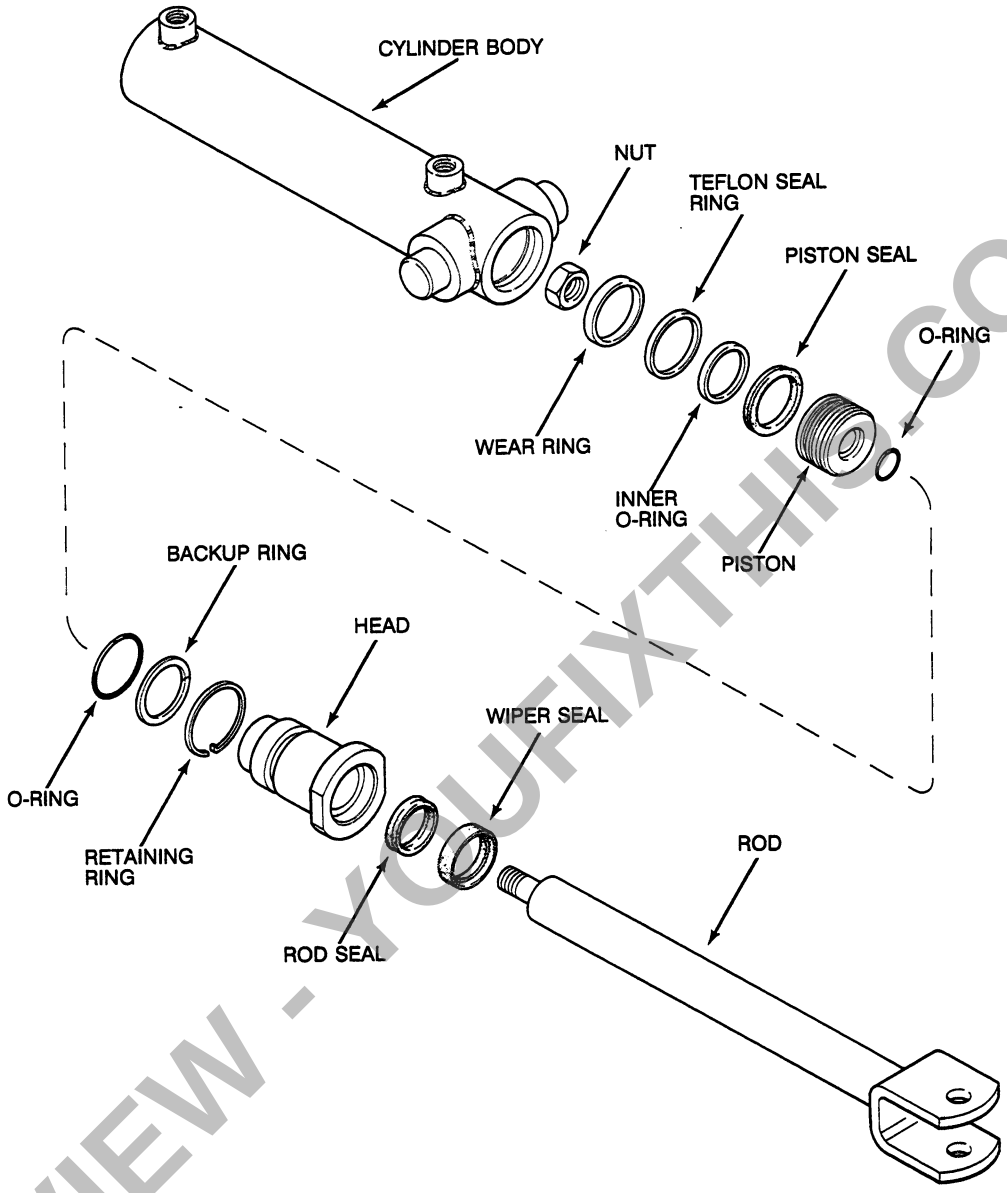
STEP 95



Remove the shaft/carrier assembly and 12 loose rollers.

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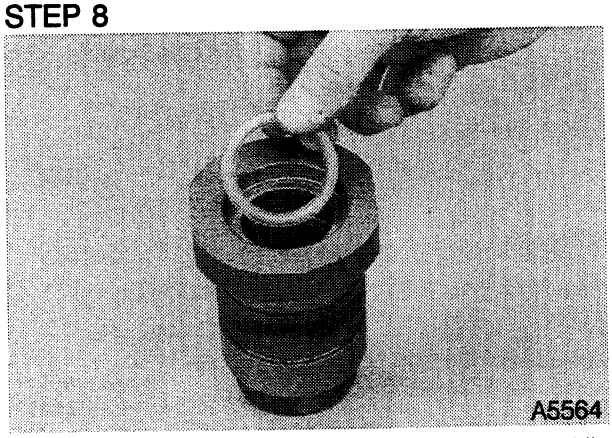
ASSEMBLY



STEP 7

Clean and inspect all parts. Replace any worn or damaged parts. Be sure the retaining wire groove surfaces are smooth. Lubricate parts with clean oil during assembly. Always install new seals and o-rings.

STEP 8

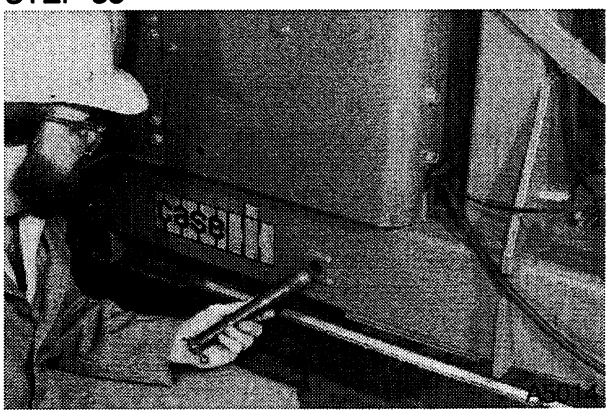


Install a new rod seal in the cylinder head. The seal lip must be toward the inside of the cylinder.

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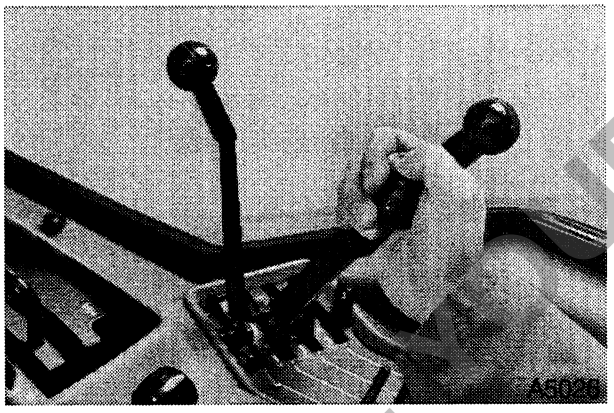
STEP 35



Install the two (2) cylinder anchor pins and retaining cotter pins. Do not connect the rod end of the cylinders at this time.

Wing Cylinder Air Removal

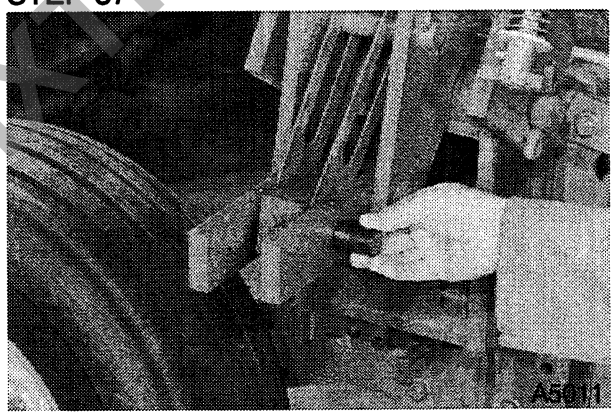
STEP 36



Start the tractor and move the remote hydraulic lever for the first stage of the wing fold cylinders to the float position. Fully cycle the second stage of the cylinders several times to remove any air inside the cylinders. Leave the cylinders fully extended when all the air has been removed.

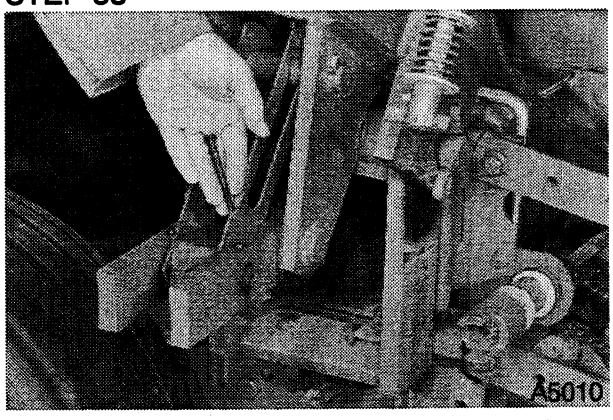
NOTE: *When removing air from the cylinders, be sure the cylinder rods clear the rod mounting hardware on the wing tool bars.*

STEP 37



Position the cylinder hold up links and the hinge latches and install the cylinder rod pin in each cylinder.

STEP 38

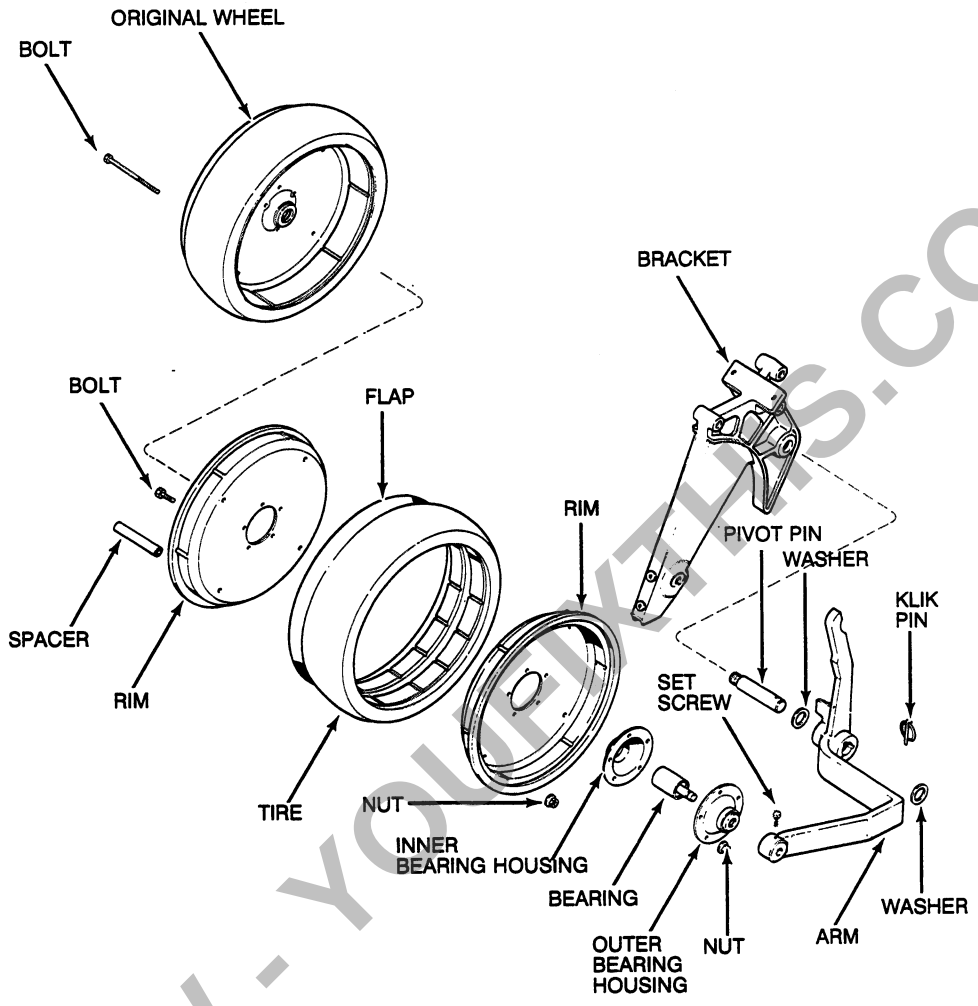


Install the 1/4 inch cylinder rod pin retaining hardware.

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Dual Gauge Wheel Attachment



197L9

The dual gauge wheel attachment adds another tire and wheel assembly not interchangeable with the original and replaces the pivot arm. Only the difference between the original unit and the dual wheel unit is shown here.

The original tire and wheel (with bearing) are installed on the inside of the new tire assembly with the long bolts, spacers and nuts. The lip of the new tire must install over the original tire.

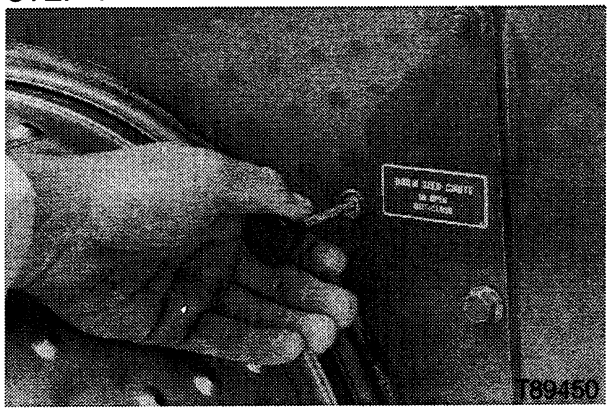
The wheel bearing is installed between the inner and outer wheel bearing housings and then mounted on the outside rim. The bearing housings are then mounted on the outside rim. The mounting bolts go through both rims and the bearing housings in that order.

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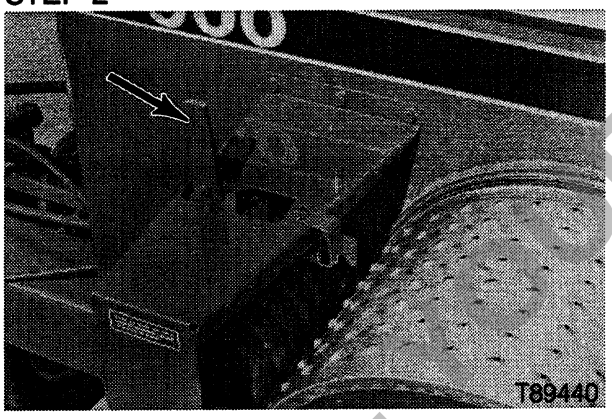
DRUM DRIVE SHAFT SERVICE
Drive Shaft Removal

STEP 1



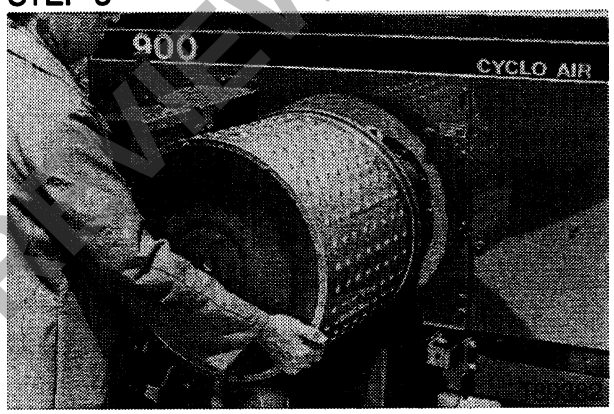
Close the seed chute gate.

STEP 2



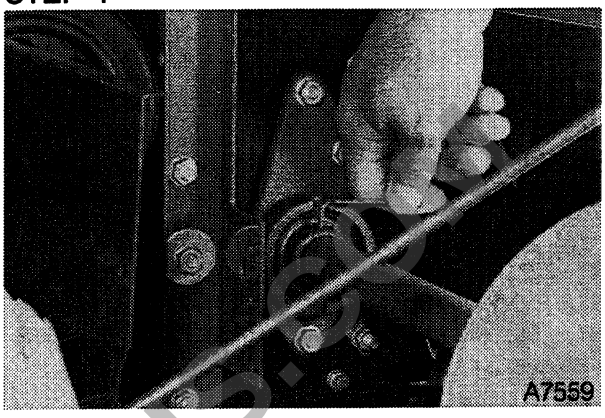
Move the seed release wheels to the storage position.

STEP 3



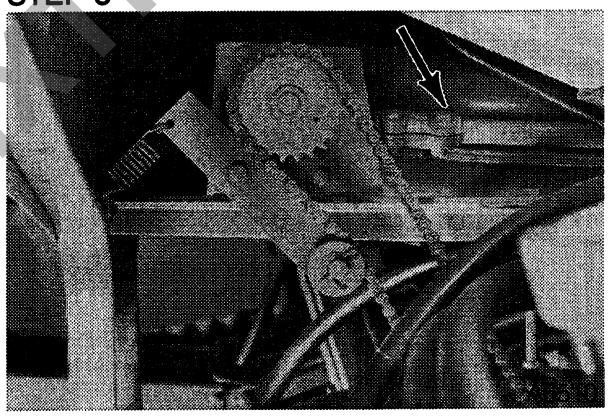
Carefully remove the drum from the shaft.

STEP 4



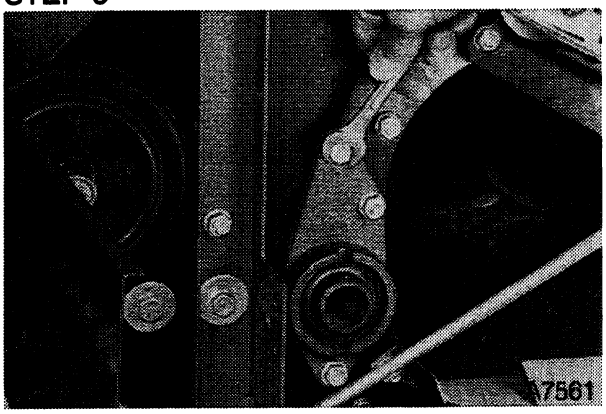
Remove the set screw from the shaft bearing.

STEP 5



Remove the front bolt from the shaft clamp and pull the shaft out the front firewall.

STEP 6



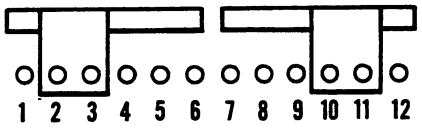
Remove the bearing retaining bolts and remove the bearing from the firewall.

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12 and 16 Row Horizontal Rear Fold Planters
Manifold to Row Unit



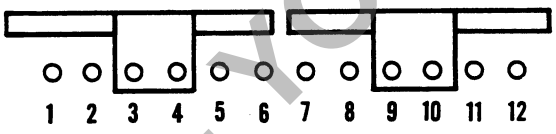
12 ROW NARROW





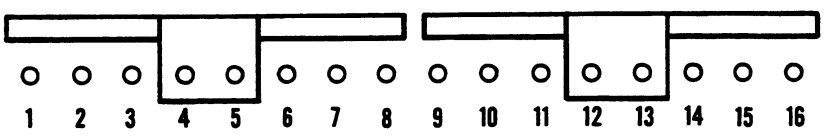
DISCHARGE MANIFOLD AS VIEWED FROM UNDER SEED HOPPER

12 ROW WIDE





16 ROW NARROW



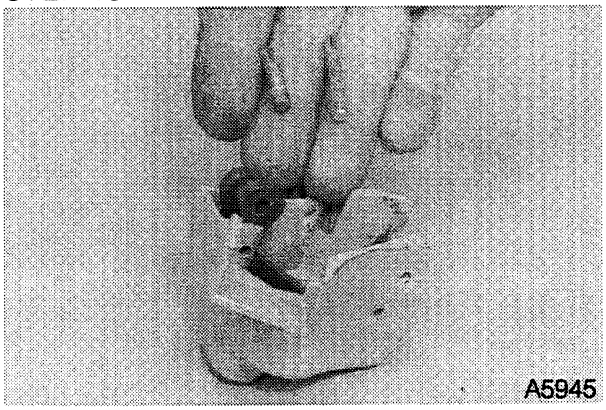


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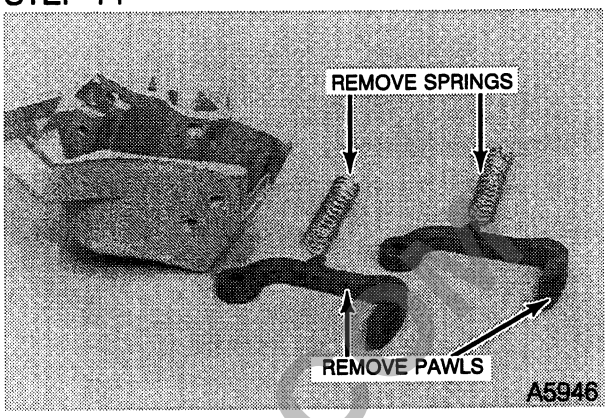
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STEP 13



Remove the cut off pawl pivot pins.

STEP 14



Remove the cut off pawls and springs. Replace the pawls if excessive wear or damage is present. Normal use with edge drop seed plates will wear the outer pawl tip more than the inner pawl tip.

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TROUBLESHOOTING THE BLOWER SYSTEM
CYCLO AIR 12, 8-13 AND 16 ROW PLANTER

PROBLEM: Low Air Pressure

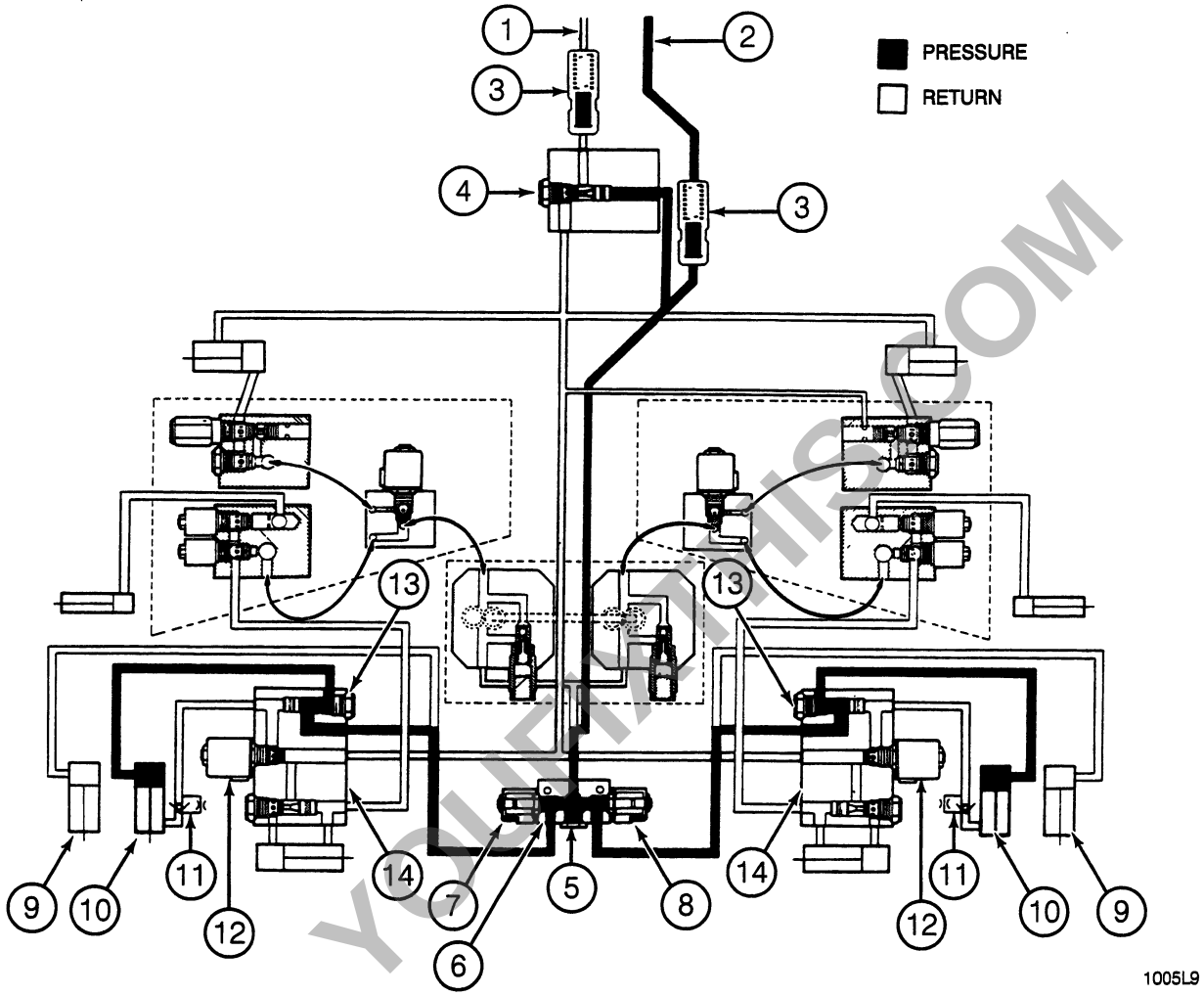
Check the oil level in the hydraulic reservoir. Is the oil level correct?



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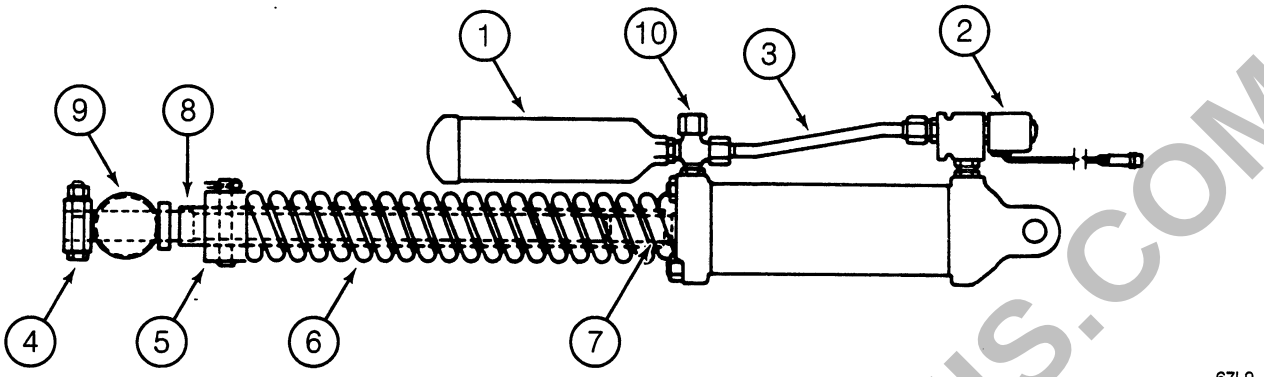


1. Tractor remote valve - lower position
2. Tractor remote valve - raise position
3. In-line filter/check
4. Pilot operated - one way check valve
5. Flow regulator valve
6. Marker valve - outer
7. LH marker solenoid valve
8. RH marker solenoid valve
9. Outer marker cylinder
10. Inner marker cylinder
11. One way restrictor
12. Inner marker solenoid valve
13. Pilot operated - inner marker check valve
14. Inner marker valve

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Hitch Stabilizer 3-1/2 x 10 Inch
Cylinder Removal



67L9

1. ACCUMULATOR
2. SOLENOID VALVE
3. TUBE ASSEMBLY
4. STOP COLLAR
5. LINE COLLAR
6. SPRING
7. FLAT ON PISTON ROD
8. CYLINDER LINK
9. LINK PIN
10. CAP

1. Remove accumulator from the cross assembly. Hydraulic oil leakage will occur when the accumulator is removed.

2. Disconnect the solenoid valve wiring harness.

3. Remove the tube assembly from the cylinder.

4. Remove the stop collar from the cylinder link.

5. Remove the headed pin from the cylinder end. Remove the cylinder assembly from the planter.

NOTE: *It may be necessary to lower the hitch with a jack in order to remove the cylinder assembly.*

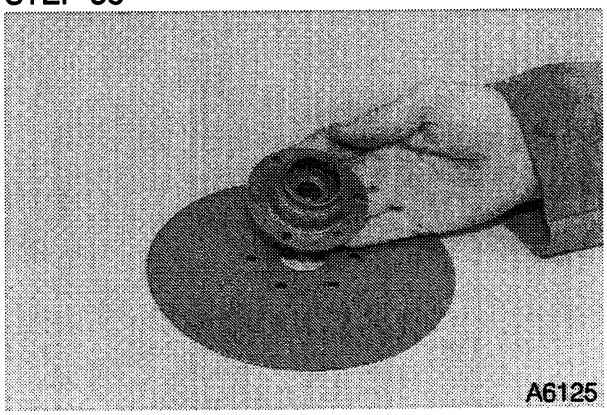
6. Remove the link collar and spring from the cylinder link.

7. Hold the flat of the piston rod and turn the cylinder link off the piston rod.

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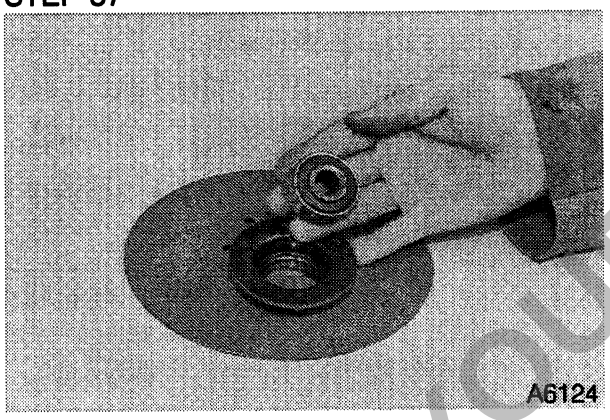
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STEP 56



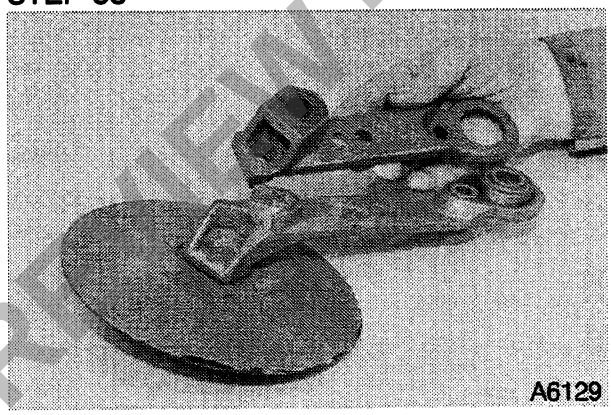
Remove the bearing and flange assembly.

STEP 57



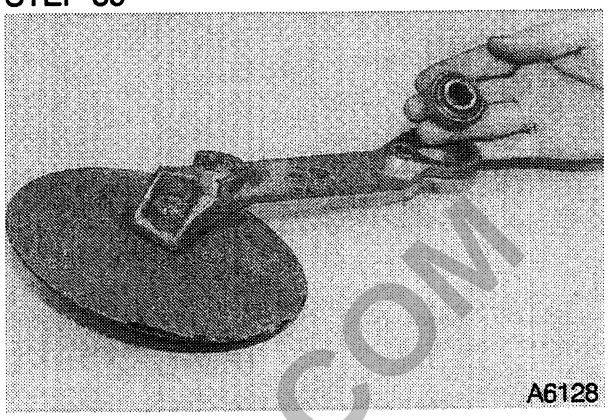
Remove the bearing.

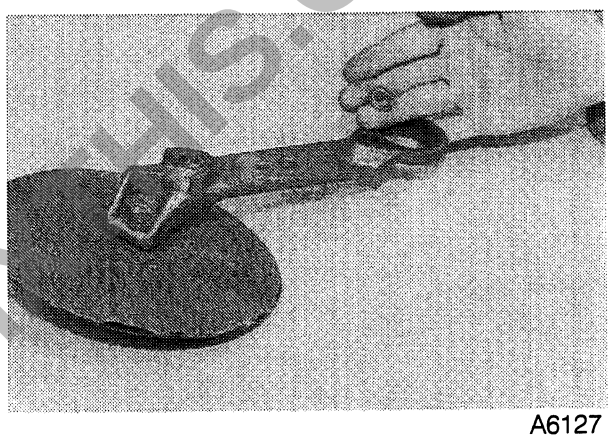
STEP 58



Remove the bolts then the one bracket.

STEP 59





Remove the bearing and the shim between the brackets.

STEP 60

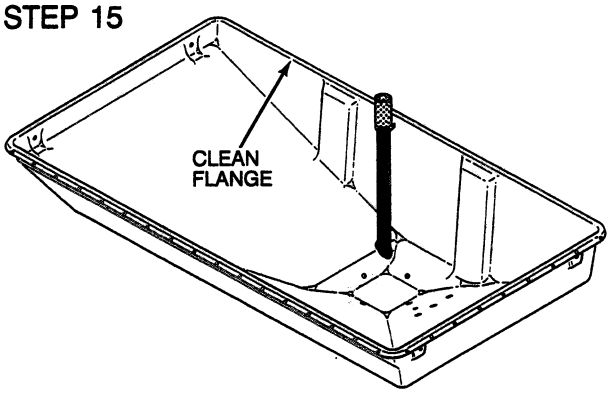
Repeat steps 52 to 59 to disassemble the other disc.

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Hopper Assembly and Installation

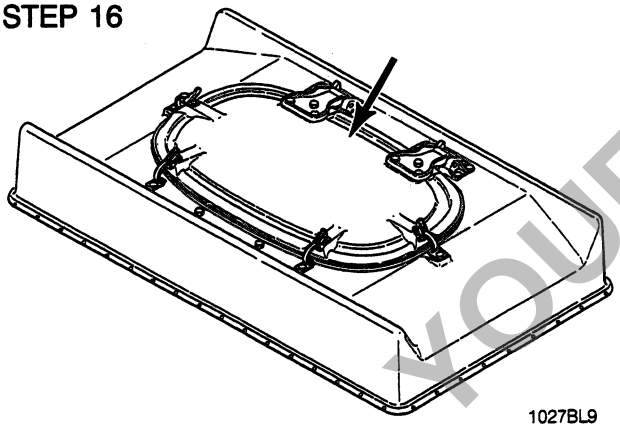
STEP 15



1027CL9

Remove any sealant remaining on the hopper lower half flange.

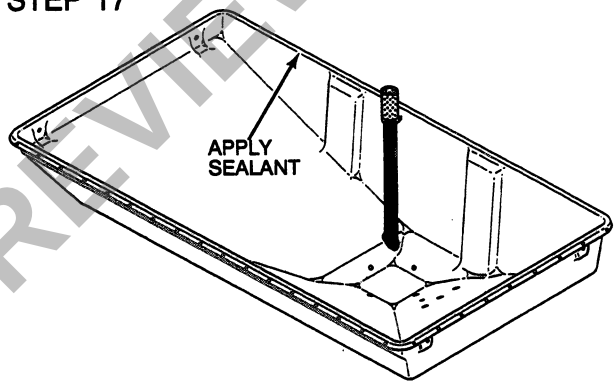
STEP 16



1027BL9

Transfer the cover and all hardware from the removed hopper upper half to the new hopper upper half.

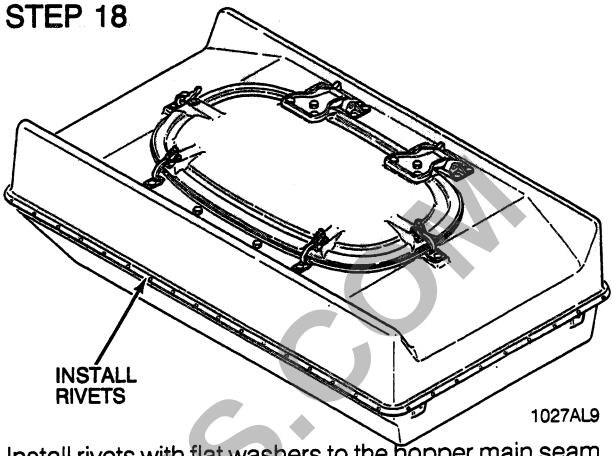
STEP 17



1027CL9

Apply a bead of RTV silicone sealant to the hopper bottom half flange.

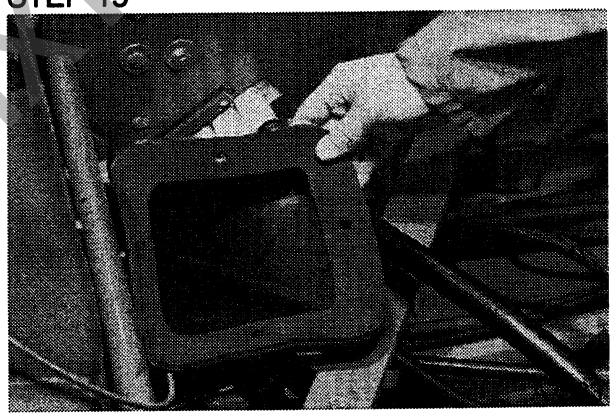
STEP 18



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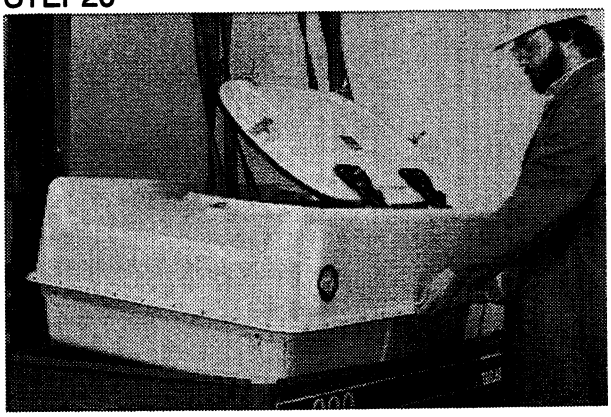
Install rivets with flat washers to the hopper main seam. Apply additional sealant to the entire inner seam. Be sure the sealant is smooth so seed will not catch on it.

STEP 19



Check the seed chute and air bypass pipe seals for damage. Replace if necessary.

STEP20

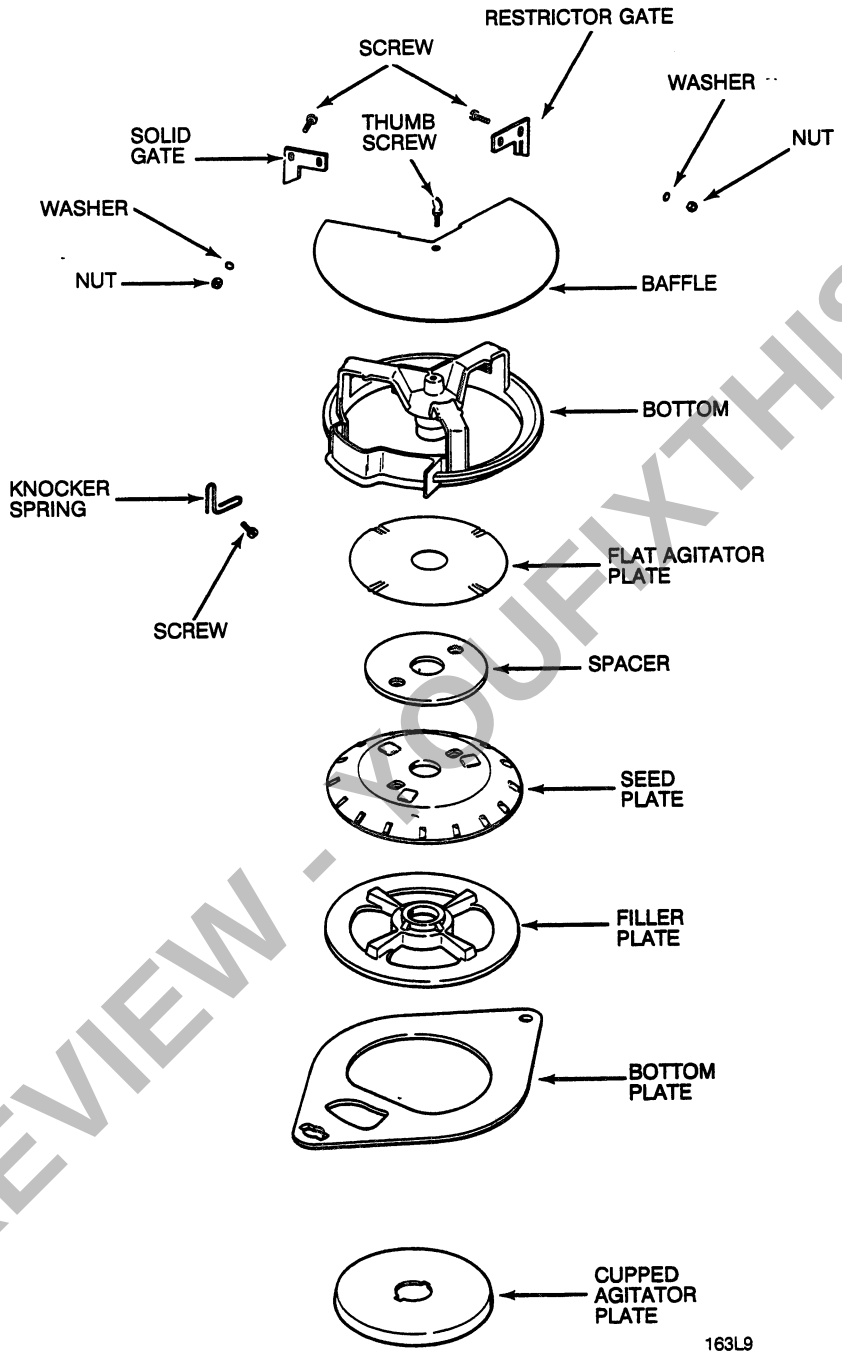


Install the hopper into the module frame.

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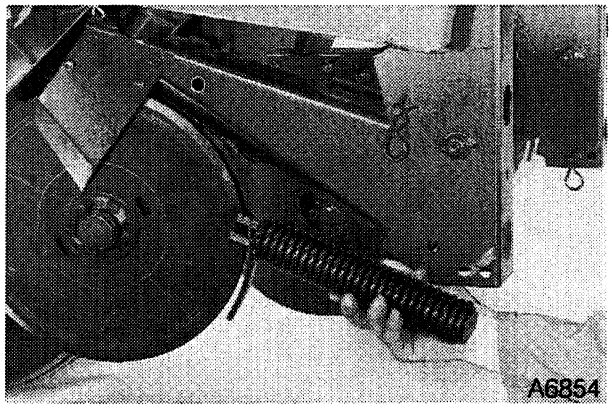
Rotary Cone Bottom Assembly



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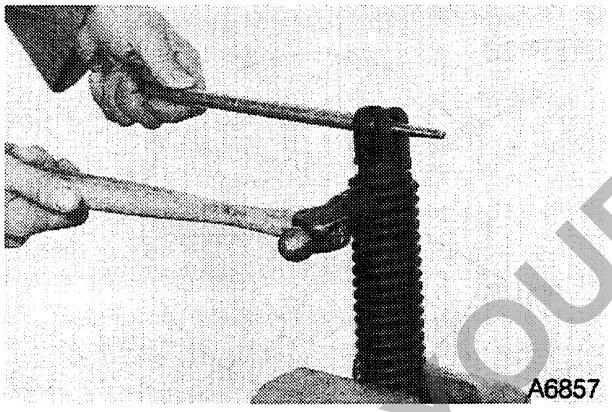
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STEP 28



Lift and secure the rear of the fertilizer opener in an up position. Remove the spring assembly.

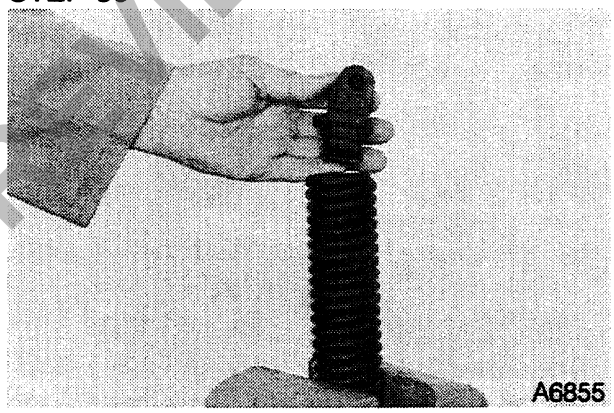
STEP 29



Secure the spring in a vise. Turn the spring ends from the spring. Turning the end and hitting the spring with a hammer will help removal. Heat may be neccesary.

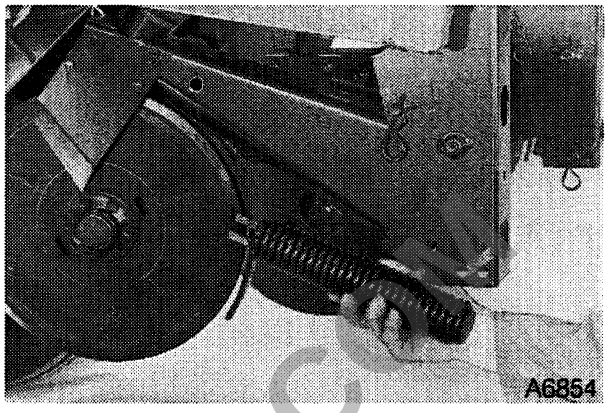
NOTE: *Spring may become loaded and release suddenly.*

STEP 30



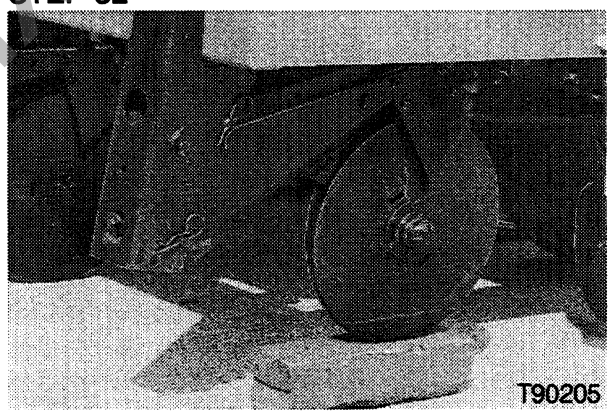
Install the two spring ends into the new spring until tight.

STEP 31



Install the spring assembly on the fertilizer frame. The spring end with threaded hole goes to the front. Tighten the spring adjusting bolt until there is 1-1/2 inches of bolt showing between the spring end and frame when viewed from below the frame. Adjust the spring tension for desired penetration after you observe the opener in operation.

STEP 32



Remove the lift cylinder stops. Lower the disc on a 4 inch block of wood and move the lock pin to the position lyou want. The rear hole is for transport, the middle hole for shallow setting and the front position is for a deep setting. Raise the planter and remove the block.

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