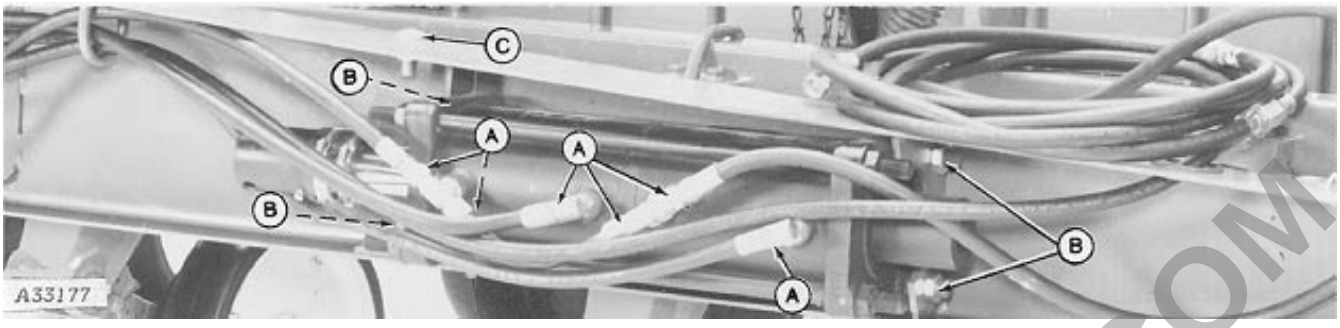


-UN-12DEC89
A33177

CAUTION: Escaping fluid under pressure can penetrate the skin causing serious injury. Avoid the hazard by relieving pressure before disconnecting hydraulic or other lines. Tighten all connections before applying pressure. Search for leaks with a piece of cardboard. Protect hands and body from high pressure fluids.

If an accident occurs, see a doctor immediately. Any fluid injected into the skin must be surgically removed within a few hours or gangrene may result. Doctors unfamiliar with this type of injury should reference a knowledgeable medical source. Such information is available from Deere & Company Medical Department in Moline, Illinois, U.S.A.

6. Remove all hose connections (A).

7. Remove all tie bolt nuts (B).

8. Remove two cap screws (C) to remove cylinder.

1344TM,CA -19-16FEB96

DISASSEMBLE MASTER CYLINDER

1. Thoroughly clean cylinder.

2. Mark cylinder body with a scribe line for easier identification when reassembling.

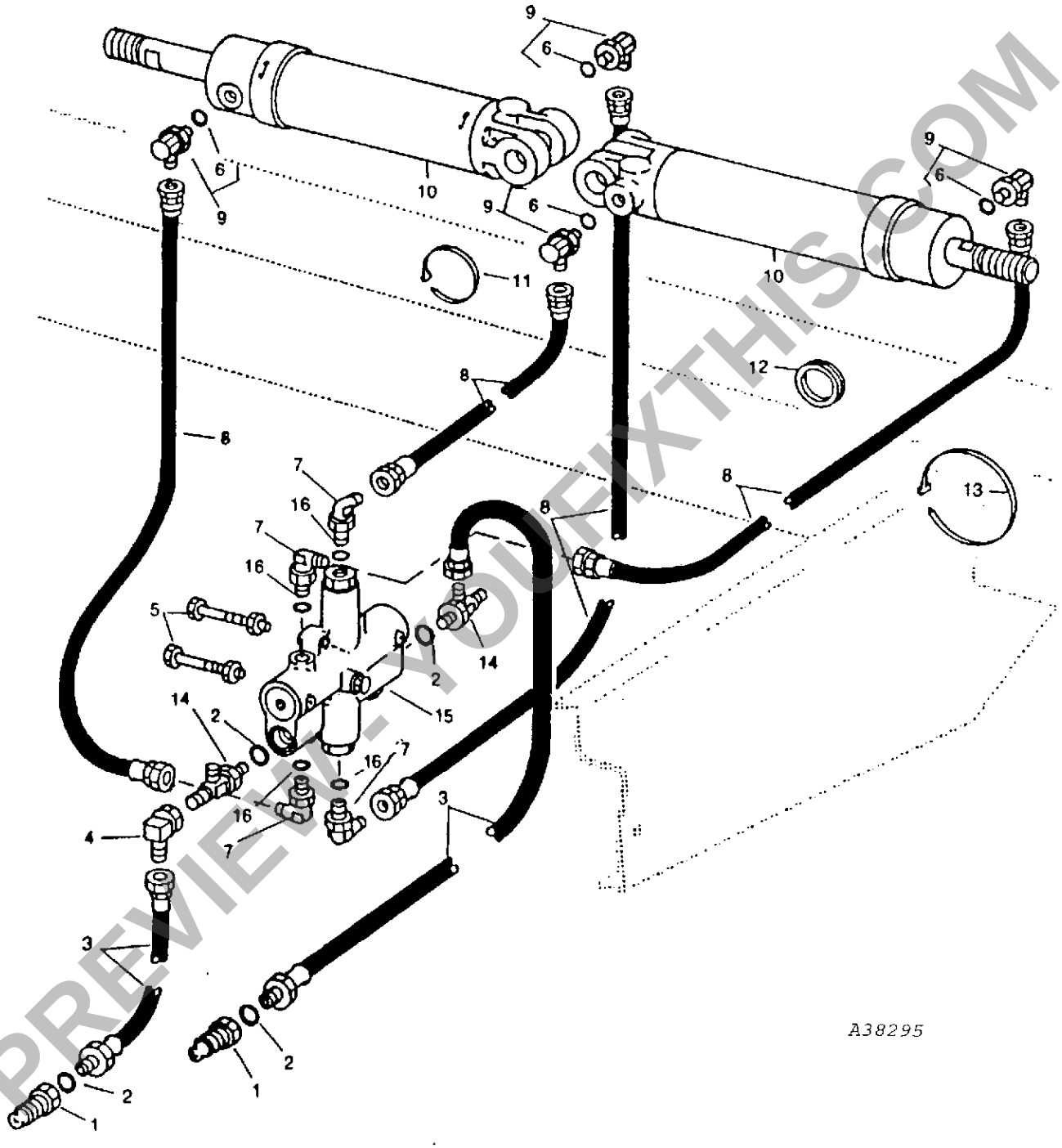
3. Completely disassemble the cylinder. Discard all old seals and O-rings.

B23,C3020,B -19-02FEB93

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7200 MARKER HYDRAULIC SYSTEM
(—1993) (AUTOMATIC) 4R-6RN



A38295 -UN-24OCT95

T1344M,C -19-16FEB96

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Symptom	Problem	Solution
ROW UNITS		
Row units on right-hand wing frame not planting.	Right-hand drill shaft drive coupler cotter pin sheared.	Repair cause of pin shearing and replace cotter pin.
Row units on left-hand wing frame not planting.	Left-hand drill shaft drive coupler cotter pin sheared.	Repair cause of pin shearing and replace cotter pin.
Closing wheels leave severe imprint in soil.	Too much spring force.	Adjust closing wheel spring.
Closing wheels not firming soil around seed.	Insufficient spring force.	Adjust closing wheel spring.
	Wheel spacing.	Adjust closing wheel spacing.
Closing wheel running on top of seed furrow.	Improper centering.	Realign.
Closing wheels not applying equal force.	Improper covering.	Adjust.
Consistent shearing of drill shaft cotter pin.	Drill shaft not aligned properly.	Loosen bearing and align shaft.

1583,5005,AD -19-24FEB95

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Contents

SECTION 10—GENERAL
- Group 05—Safety
- Group 10—Specifications
- Group 15—Predelivery, Delivery, and After-Sale Services
- Group 20—Lubrication

SECTION 20—ELECTRICAL
- Group 05—Warning Lamp

SECTION 30—HYDRAULIC
- Group 05—Specifications
- Group 10—Operation
- Group 15—Master Cylinder
- Group 20—Wheel Cylinders
- Group 25—Marker Systems
- Group 30—7200 Wing-Fold Cylinders
- Group 35—7300 Vertical-Fold Cylinders
- Group 40—7300 Stack-Fold Folding Cylinders
- Group 45—Dry Fertilizer QUIK-FILL™ Hydraulic System
- Group 50—Dry Fertilizer QUIK-FILL™ Shutoff Valve
- Group 55—Vacuum Meter PTO Pump
- Group 60—Vacuum Meter

SECTION 40—DRIVES
- Group 05—Specifications
- Group 10—Drive Wheels
- Group 15—Countershaft, Drillshaft and Jackshaft
- Group 20—Seed Drive Transmission
- Group 25—Clutch
- Group 30—Fertilizer Drive
- Group 35—Liquid Fertilizer Pumps

SECTION 50—PLANTING UNITS
- Group 05—Vacuum Seed Metering Mechanisms
- Group 10—Plateless Seed Metering Mechanisms
- Group 15—Plate Seed Metering Mechanisms
- Group 20—Check Seed Population
- Group 25—Seed Openers
- Group 30—Closing Wheels
- Group 35—Insecticide/Herbicide Meter
- Group 40—Coulter/Single-Disk Fertilizer Opener
- Group 45—Troubleshooting

SECTION 60—PLANTER RUN-IN
- Group 05—Planter Run-In

SECTION 70—CHECK SEED POPULATION
- Group 05—General Information

Index

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HANDLE FLUIDS SAFELY—AVOID FIRES

When you work around fuel, do not smoke or work near heaters or other fire hazards.

Store flammable fluids away from fire hazards. Do not incinerate or puncture pressurized containers.

Make sure machine is clean of trash, grease, and debris.

Do not store oily rags; they can ignite and burn spontaneously.



TS227 -UN-23AUG88

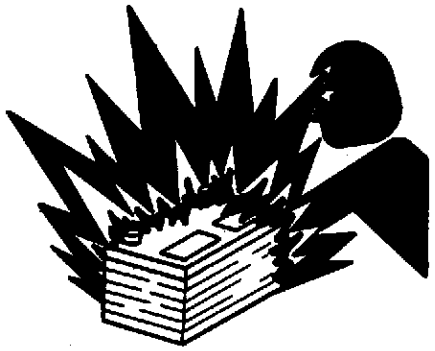
DX,FLAME -19-04JUN90

PREVENT BATTERY EXPLOSIONS

Keep sparks, lighted matches, and open flame away from the top of battery. Battery gas can explode.

Never check battery charge by placing a metal object across the posts. Use a volt-meter or hydrometer.

Do not charge a frozen battery; it may explode. Warm battery to 16˚C (60˚F).



TS204 -UN-23AUG88

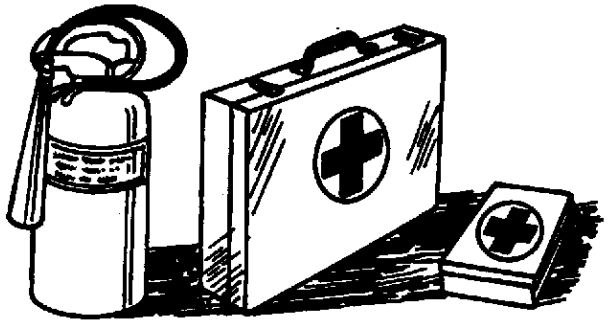
DX,SPARKS -19-03MAR93

PREPARE FOR EMERGENCIES

Be prepared if a fire starts.

Keep a first aid kit and fire extinguisher handy.

Keep emergency numbers for doctors, ambulance service, hospital, and fire department near your telephone.



TS291 -UN-23AUG88

DX,FIRE2 -19-03MAR93

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Index

Page

A

Afterseason storage 40-35-15
Assemble cylinder 30-20-23

B

Brush,
  Install 50-05-25

C

Clean vacuum pump motor guard 30-60-4
Closing Wheel Adjustment 50-30-2
Closing wheel down force,
  Adjust 50-30-1
Clutch operation 40-25-1
Clutch,
  Adjust 40-25-2
Connector, 7-pin 20-05-2
Coulter maintenance 50-40-1
Countershaft and drillshaft location 40-15-3, 40-15-13
Countershaft location,
  7200 Standard 40-15-2
Countershaft,
  7300 Stack-fold 40-15-24
Cylinder,
  Assemble 30-30-6
  Disassemble 30-20-25
  Remove 30-35-2
Cylinders,
  Remove 30-30-3

D

Disassemble cylinder 30-20-22, 30-20-25
Double action center wheel cylinder 30-20-24
Drillshaft and jackshaft,
  7200 Vertical fold planters 40-15-18
Drillshaft location,
  7200 Stack-fold 40-15-8
  7300 Stack-fold 40-15-10
  7300 Vertical-fold 40-15-20
  7300, 7200 Split row attachment 40-15-7
Drive chains,
  7240 Planter 40-05-3

Page

Drive wheel disconnect,
  7200 Planters 40-10-2
  7200 Standard Planters 40-10-3
Drive wheel location 40-10-1
Drive wheel slippage 50-20-3
Drive wheels 40-10-1
Drive wheels,
  7200 and 7300 Planters 40-10-6
  7240 Planter 40-10-6

E

External snap ring pliers 30-05-1

F

Feed cup malfunctions,
  Diagnose 50-10-9
Fertilizer drive 40-30-1
Fertilizer drive location drawing 40-30-2
Fertilizer,
  Lubrication 40-35-13
  Piston pump storage 40-35-8
  System operation 40-35-4
Flow control valve,
  (—1994) 30-60-9
  (1994—) 30-60-10
Flush pump 40-35-9
Flywheel puller assembly 30-05-2
Fold cylinder,
  Install 30-40-7
  Remove 30-40-3

G

Gauge wheels,
  Adjust 50-25-3
Grease
  Extreme pressure and multipurpose . . . 10-20-1

H

How to change brush 50-05-25
Hydraulic motor snap ring pliers 30-05-1
Hydraulic motor,
  Assemble 30-45-16
  Clean 30-45-15

INDX 1

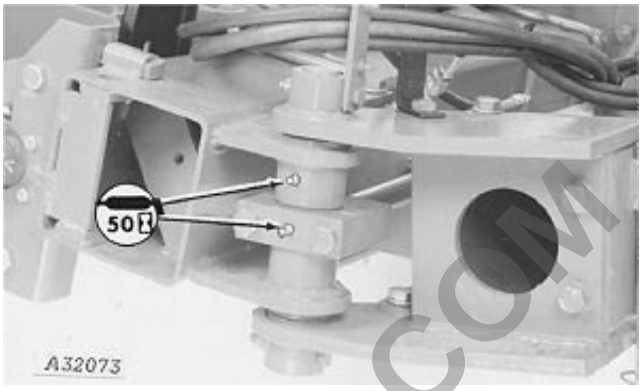
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INDX

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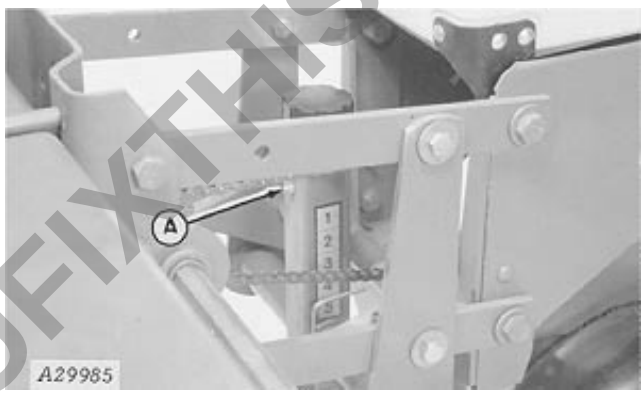


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Wing-Fold Cylinder and Hinge

B21,6AS,CG -19-02FEB93

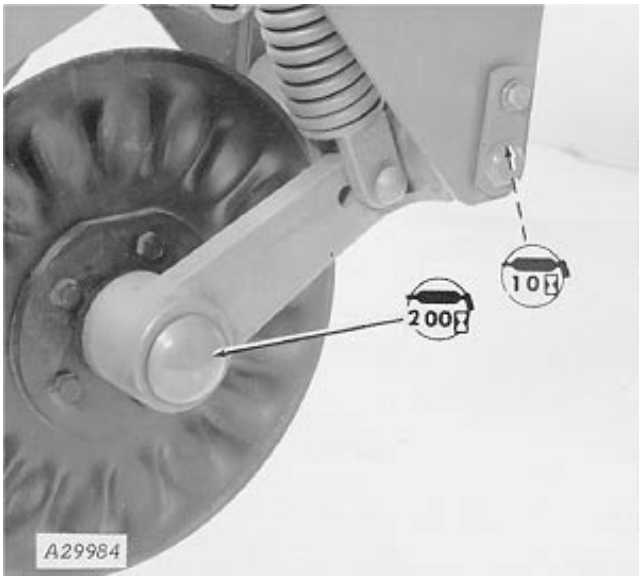
A—Lubricate at beginning and end of planting season with John Deere Multi-Purpose Lubricant or an equivalent SAE Multi-Purpose type grease



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A29985

Tillage Support Bracket

B21,8LU,L -19-02FEB93



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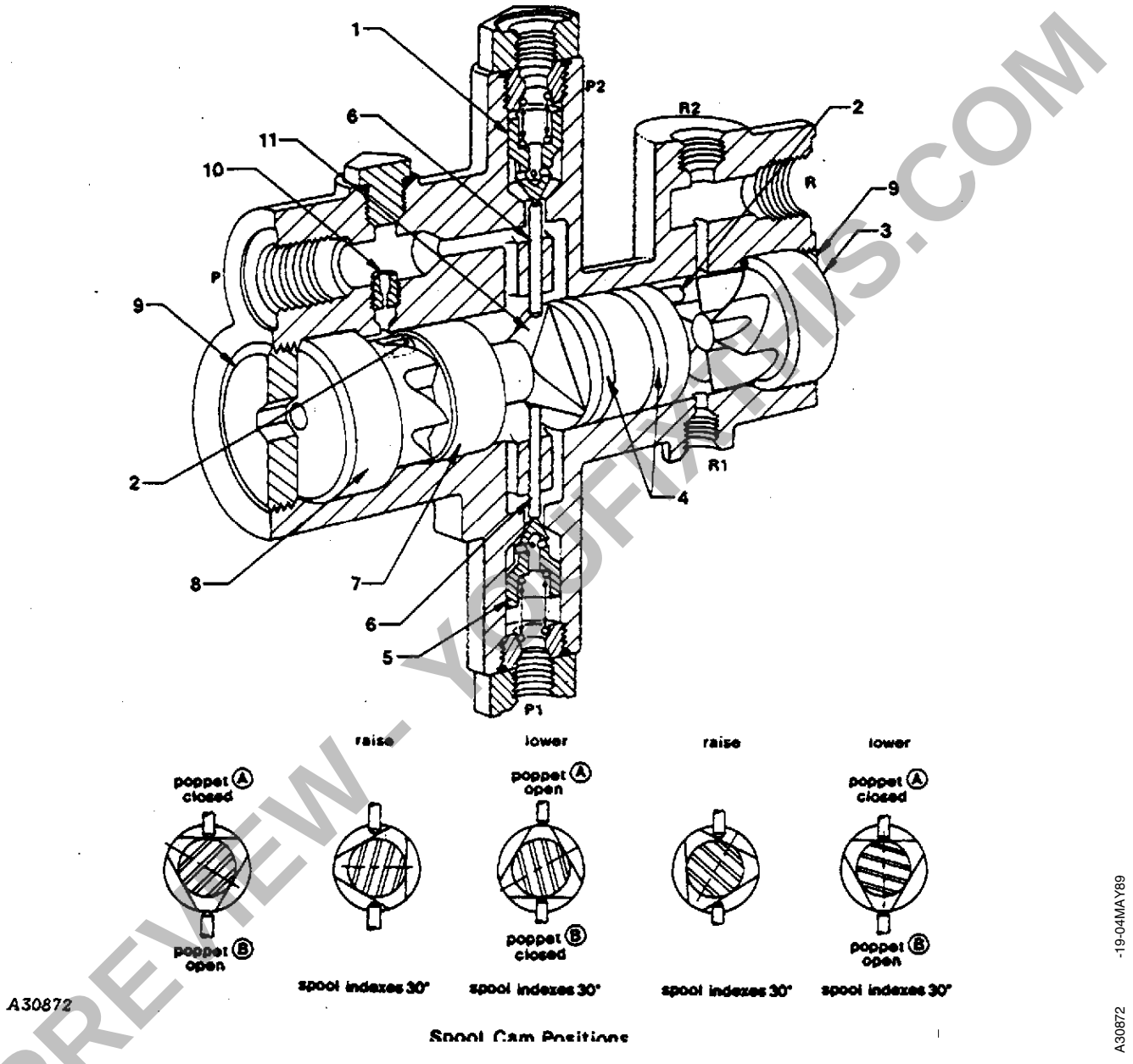
Frame Mounted Coulter

B21,8LU,K -19-02FEB93

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ROTARY MARKER SEQUENCE VALVE
(—1993) BASIC MARKER VALVE OPERATION



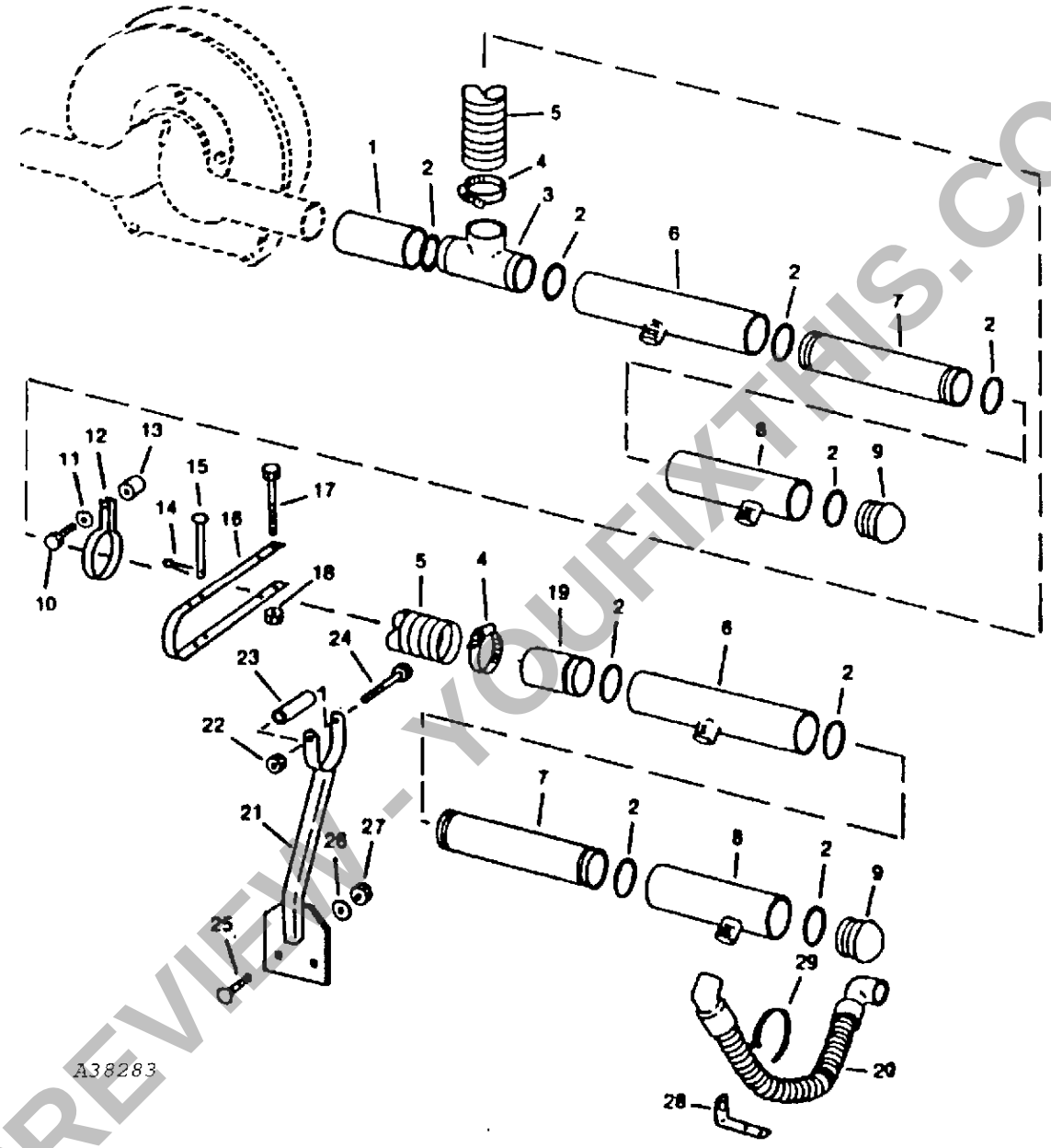
1—Poppet (A)
2—Index Pin
3—Right Index Cam
4—Spool Detent Groove
5—Poppet (B)
6—Lift Pin
7—Spool
8—Left Index Cam
9—End Cap
10—Orifice
11—Spool Cam

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7300 STACK-FOLD VACUUM MANIFOLD ASSEMBLY RIGHT SIDE ILLUSTRATED 8-ROW WIDE



A38283 -UN-24OCT95

1—Air Duct
2—Ring
3—Air Duct
4—Clamp
5—Hose
6—Manifold
7—Air Duct
8—Manifold
9—Plug
10—Cap Screw
11—Washer
12—Clamp
13—Spacer
14—Cotter Pin
15—Pin
16—Bracket
17—Cap Screw
18—Nut
19—Air Duct
20—Hose
21—Bracket
22—Nut
23—Bushing
24—Cap Screw
25—Bolt
26—Washer
27—Nut
28—Bracket
29—Tie Band

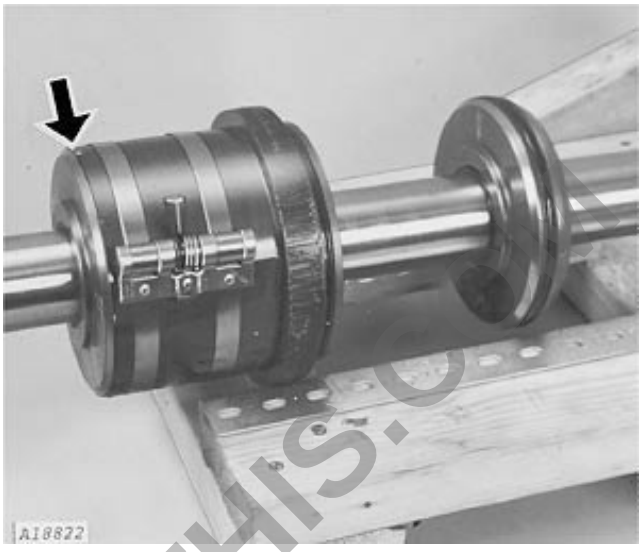
1344TM,AT -19-16FEB96

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7. Install ring compressor over center bearing O-ring groove and rear piston as shown.

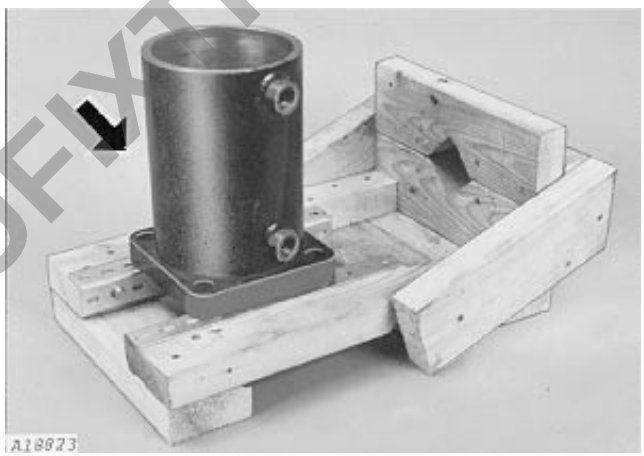
8. Slide cylinder rod through center bearing until piston T-seal is just inside edge of compressor. Make certain extruded edge of compressor (bold arrow) is toward piston, not center bearing. Extrusions will prevent compressor from sliding into barrel.

9. Tighten compressor with wrench provided.



-UN-02AUG89
A18822

10. Install end bearing on barrel and place on assembly fixture as shown. Assembly will be easier if fixture is placed on a low bench or the floor.



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B23,C3020,G -19-02FEB93

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15
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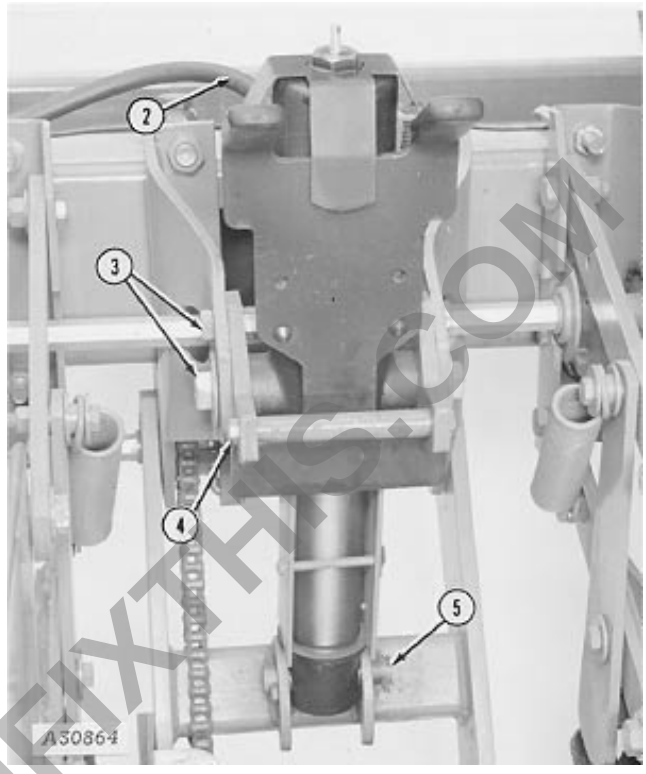
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2. Disconnect hydraulic hose from wheel module hydraulic cylinder.

3. Remove bolts from wheel arm support.

4. Loosen nut on spacer bolt.

5. Remove cotter pin and drilled pin from hydraulic cylinder and remove cylinder.



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A30864

B23,C3020,M -19-02FEB93

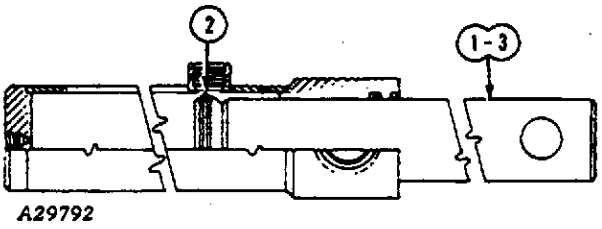
DISASSEMBLE CYLINDER

1. Pull cylinder rod until retaining ring is visible through port in barrel assembly.

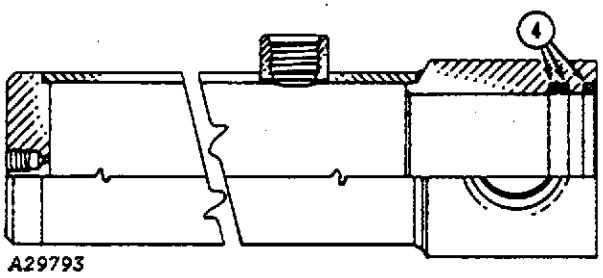
2. Insert screwdriver into port and slip retaining ring into lower groove.

3. Remove cylinder rod from barrel assembly.

4. Remove O-ring, back-up washer and wiper seal from barrel assembly, then discard.



-UN-27APR89
A29792



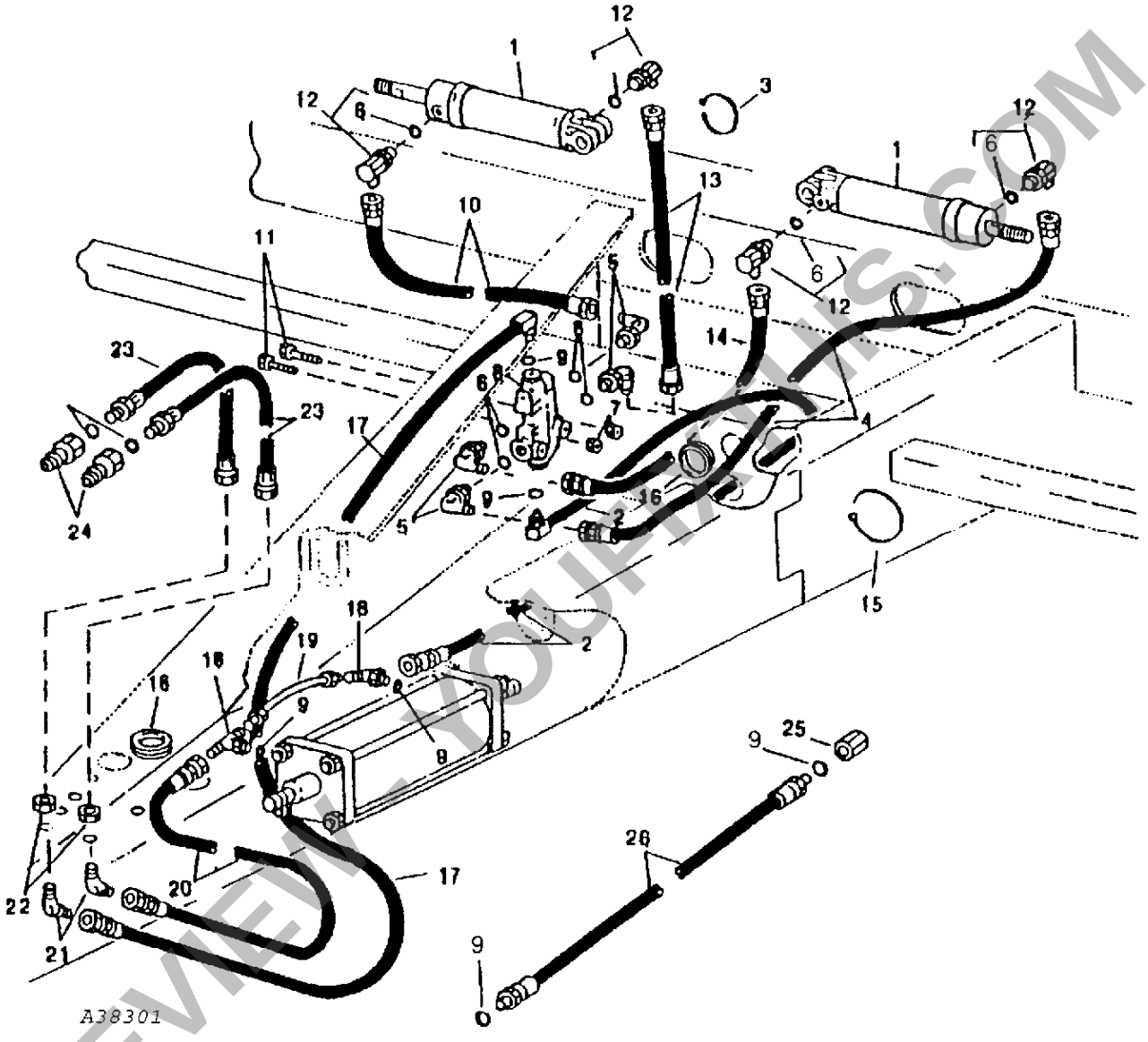
-UN-27APR89
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1344TM,DG -19-16FEB96

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7200 WING-FOLD MARKER HYDRAULIC SYSTEM (1993—) (AUTOMATIC)



A38301 -UN-24OCT95

T1344M,AB -19-16FEB96

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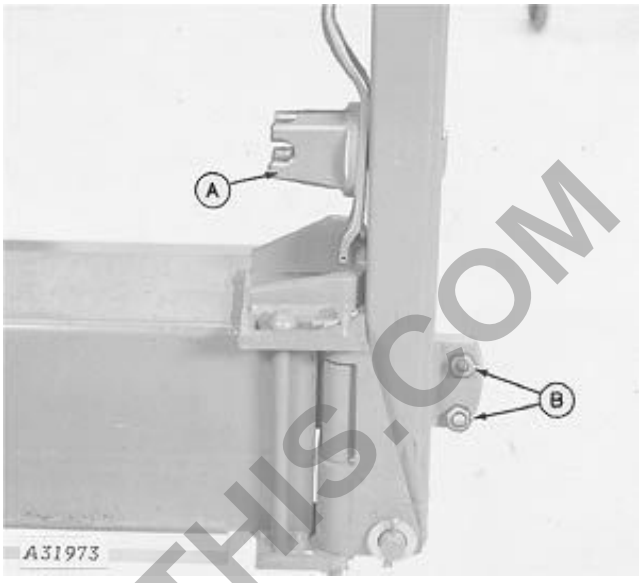
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If both markers are in the raised position and will not lower, remove actuator as follows:

10. Secure raised marker arms with transport lock (A).

11. Loosen bolts (B) and disconnect cable lift arm from marker arms.

12. (Not Illustrated) Loosen transport lock and lower right-hand marker and perform preceding steps 3 through 9.



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A31973

B21,11SE,H -19-02FEB93

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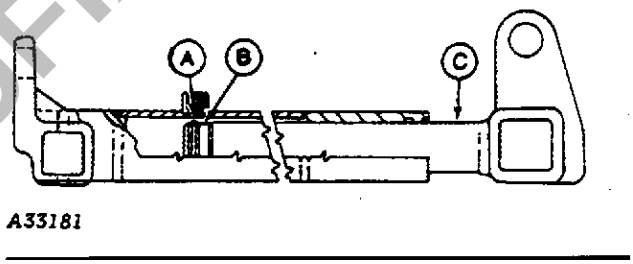
DISASSEMBLY

1. (Not Illustrated) Remove hydraulic hose and connector from cylinder.

2. Pull cylinder rod until retaining ring is visible through port (A) in barrel.

3. Insert screwdriver into port and slip retaining ring into groove (B).

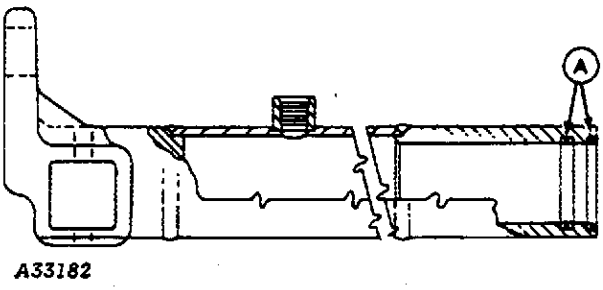
4. Remove cylinder rod (C) from barrel.



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A33181

B23,A3020,AE -19-02FEB93

5. Remove wiper seal and seal from barrel at (A).



-UN-27APR89
A33182

B23,A3020,AF -19-02FEB93

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8. Remove backup ring (A) and O-ring (B) from guide.



-UN-16OCT95
A38193

T1344M,BN -19-16FEB96

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35
12

9. Remove seals (A) and (B) from guide.

10. Clean and inspect cylinder. Replace damaged parts.



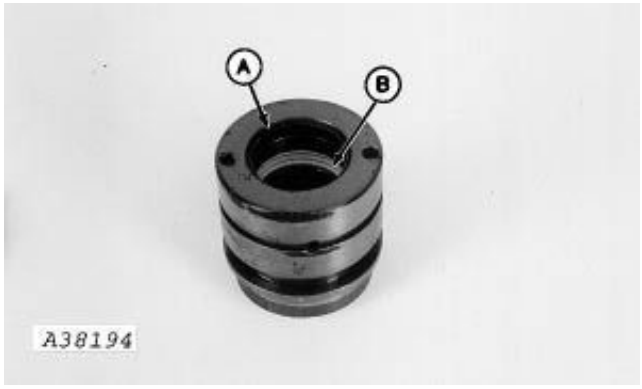
-UN-16OCT95
A38194

T1344M,BP -19-16FEB96

ASSEMBLE 7300 STACK-FOLD CYLINDER

1. Install seals (A) and (B) into guide.

2. Lubricate seals with clean hydraulic oil.



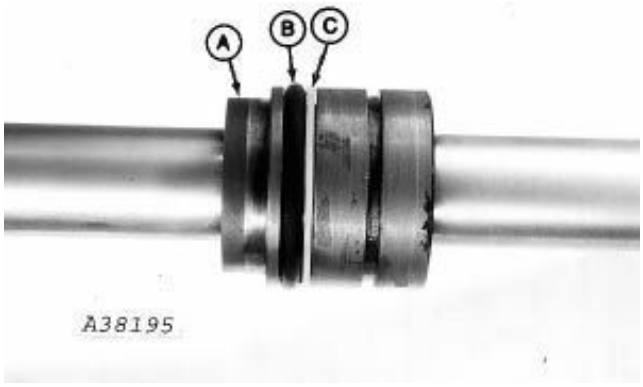
-UN-16OCT95
A38194

T1344M,BR -19-16FEB96

3. Install guide on rod with small end (A) of guide facing the piston end of rod.

4. Install O-ring (B) and back-up ring (C) on guide.

5. Lubricate O-ring and back-up ring with clean hydraulic oil.

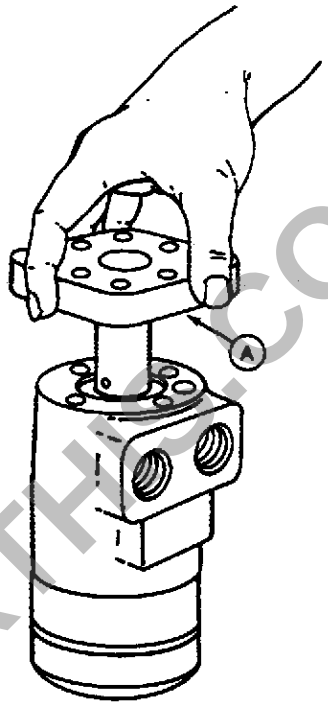


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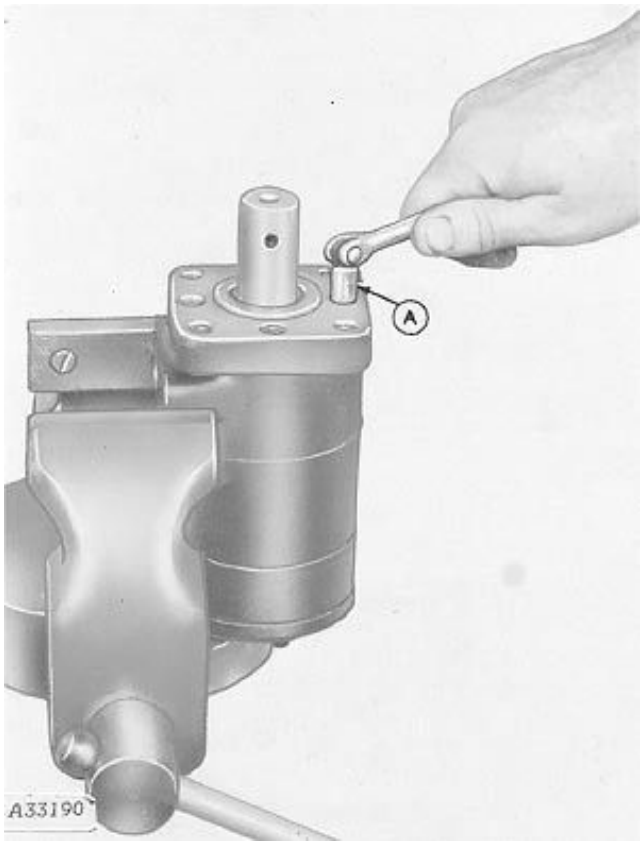
7. Lubricate shaft and seals. Being careful not to damage seals, rotate mounting plate (A) slowly while pushing down on the shaft.



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A33201

B23,A3020,BW -19-02FEB93

8. Install screws (A) and tighten to 24 N·m to 27 N·m (18 to 20 lb-ft) torque.



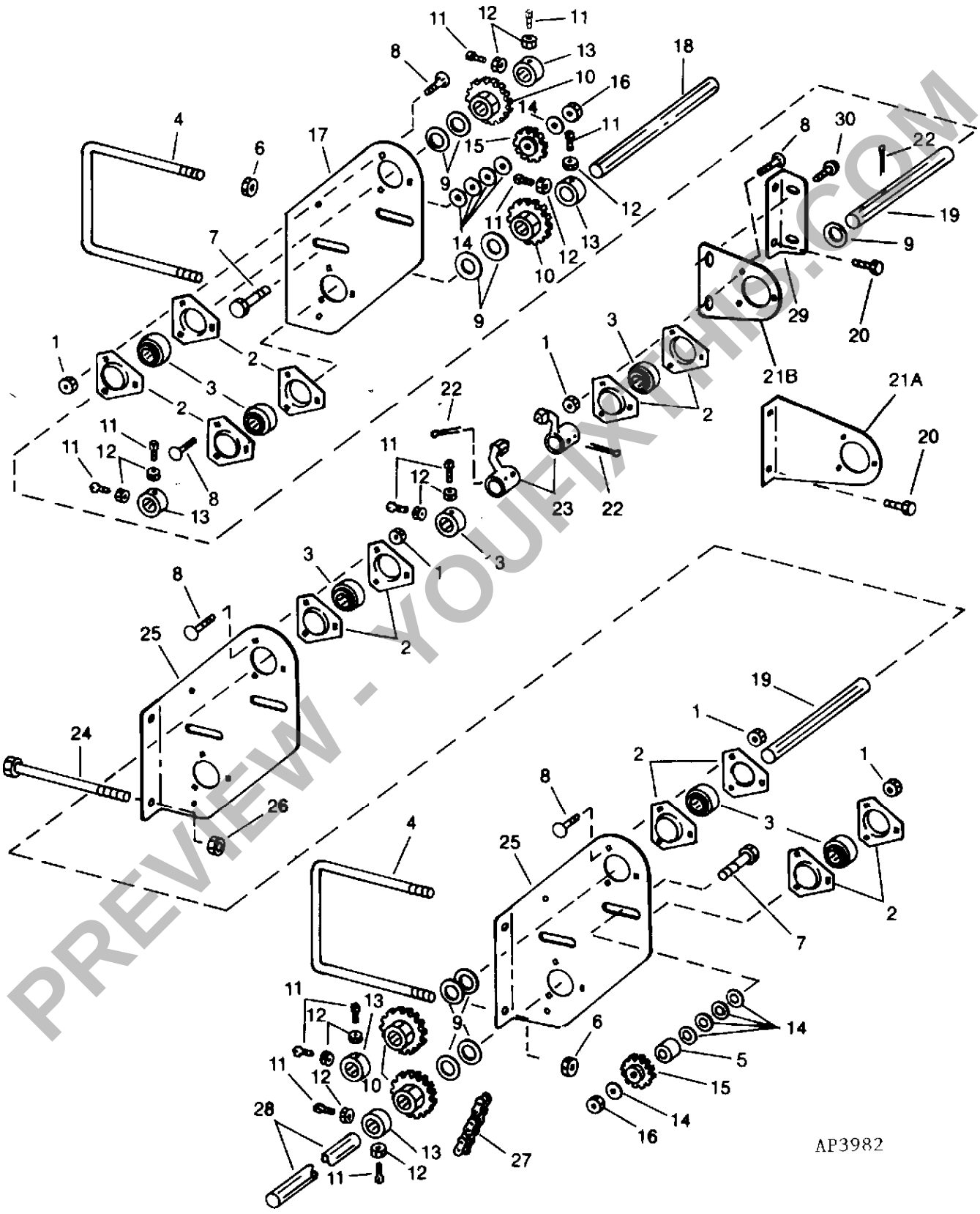
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DRILLSHAFT LOCATION (7200 STACK-FOLD)



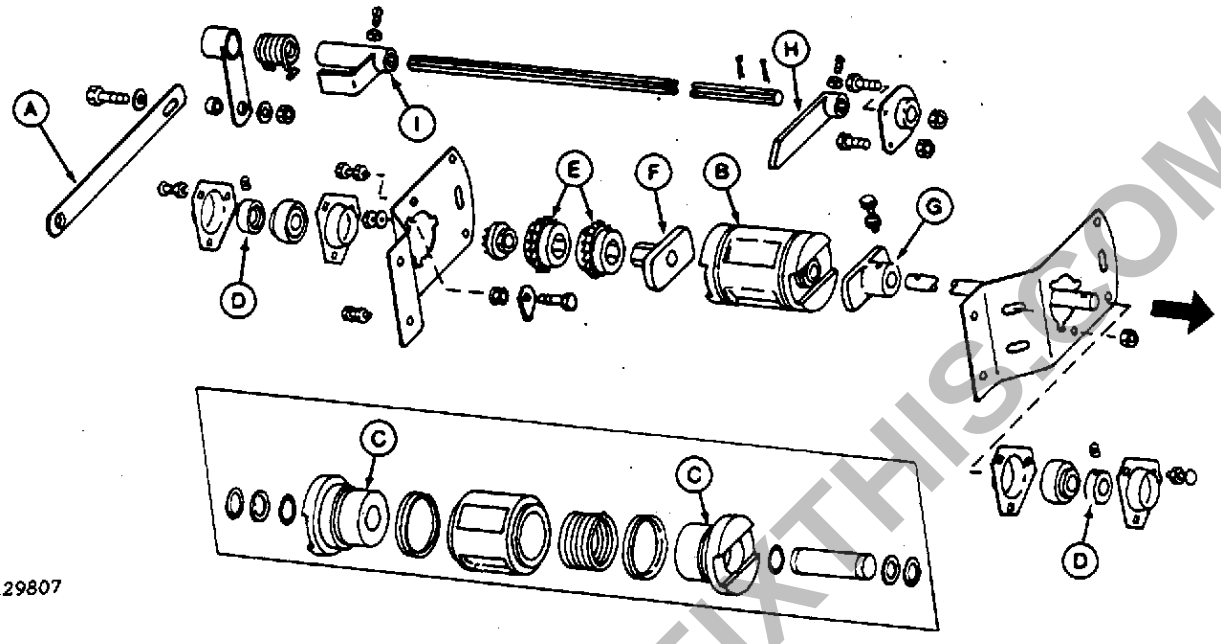
Right-Hand Side Illustrated

1344TM,FD -19-16FEB96

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ADJUST CLUTCH



A—Linkage
B—Clutch Housing
C—Hub
D—Collars
E—Clutch Sprockets
F—Driver
G—Driver
H—Throwout Arm
I—Actuator

Clutch Assembly

NOTE: Use this illustraton as a guide when disassembling and assembling clutch.

If linkage (A) is not adjusted properly to stop clutch housing (B), proceed as follows:

Tighten bolt in linkage. Bolt must **not** be free to move in slot. It must be held tight to a specific position so the clutch will disengage and re-engage at the desired planter height. Moving the bolt rearward in the slot will make the drive engage sooner.

If side loading against clutch hubs (C) causes sufficient friction between hubs to drive transmission, proceed as follows:

Loosen collars (D) on countershaft and move countershaft in a direction opposite clutch sprockets (E). When clutch is properly adjusted, there should be 1 to 2.5 mm of movement between drivers (F) and (G).

Secure collars and observe planter moving in the raised position. The clutch housing should be stopped by the clutch throwout arm (H) mounted on the hex shaft, and the clutch sprocket should not be turning.

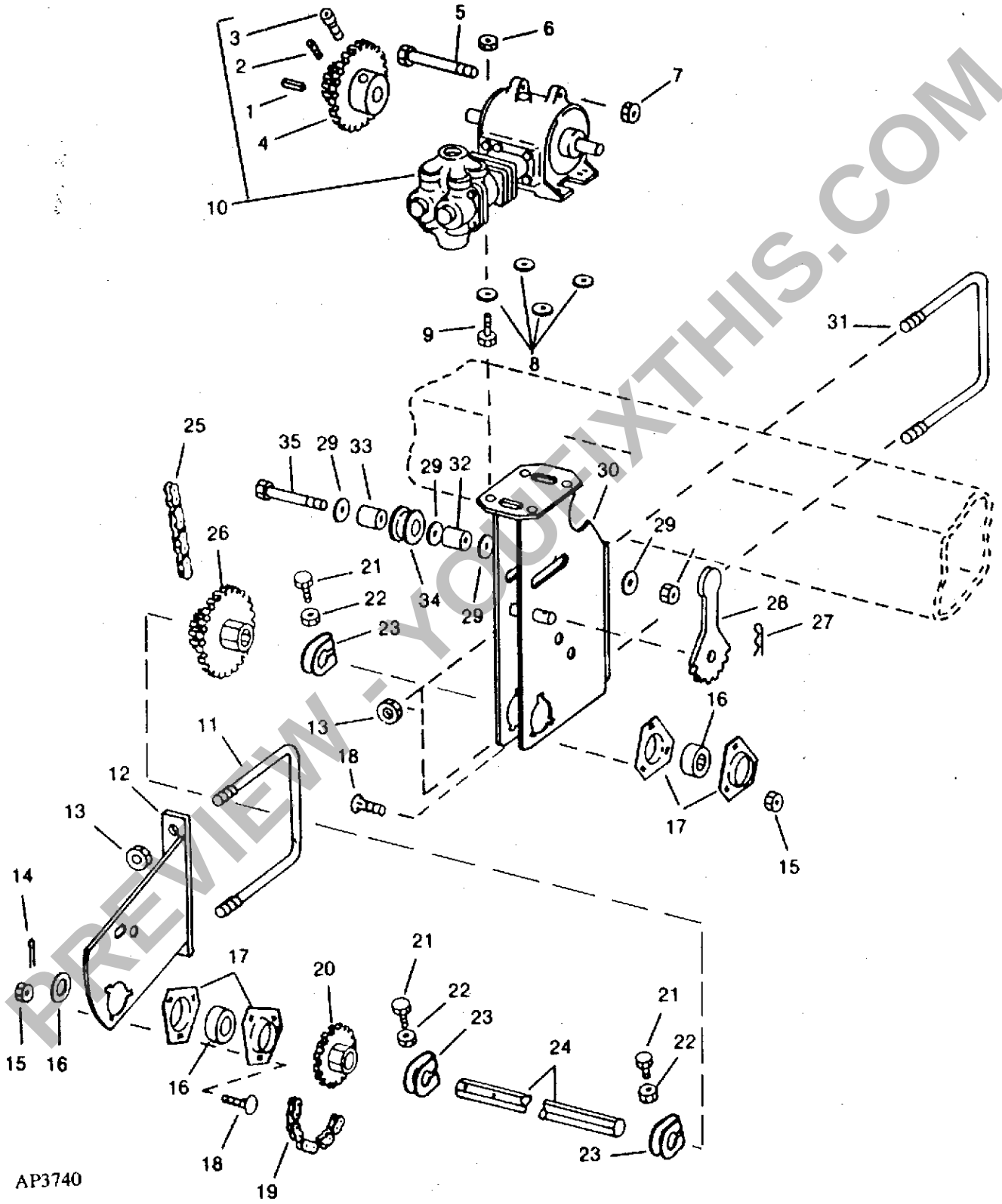
If the clutch sprocket still turns with the planter in the raised position, look for any continued side-loading apparent at either end of the clutch assembly. Loosen countershaft components and move until side-loading is relieved.

1344TM,GA -19-16FEB96

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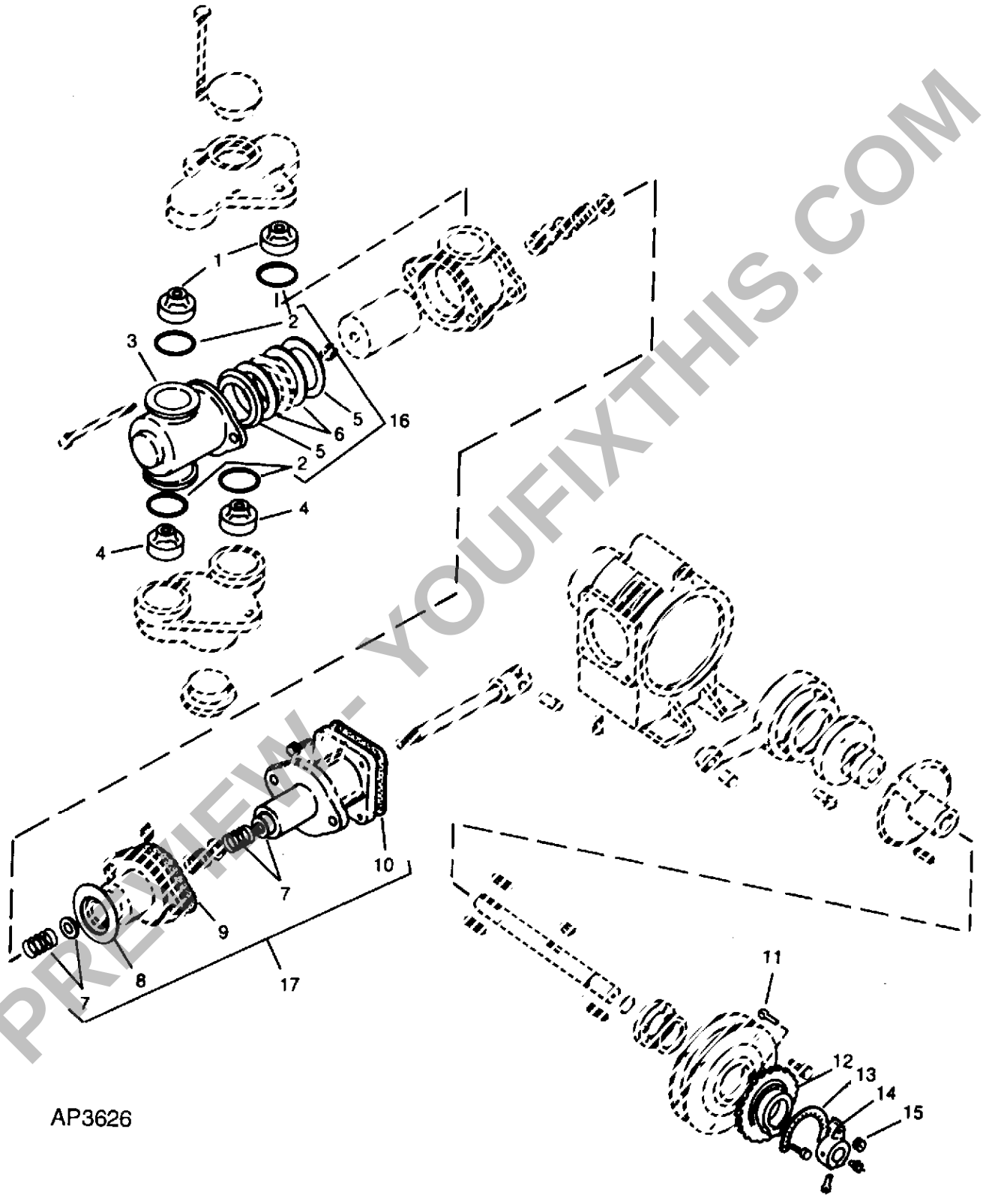
7200 LIQUID FERTILIZER DRIVE (PISTON PUMP) 6-ROW WIDE



1344TM,HG -19-16FEB96

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FERTILIZER PUMP REPAIR KITS



1583,4020,AK -19-24FEB95

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2. Remove spring locking pin (A).

3. Adjust hub (B) as follows:

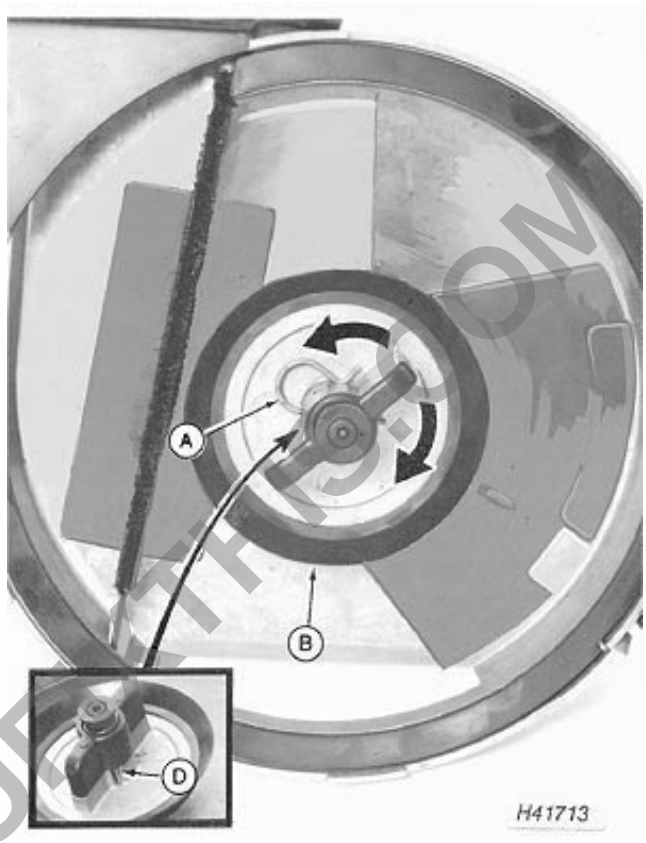
a. Hold meter flex-drive (C).

b. Turn hub clockwise to move seed disk closer to meter housing.

c. Turn hub counterclockwise to move seed disk further from meter housing.

4. Turn hub until slot (D) aligns with hole in shaft. Replace spring locking pin.

A—Pin, Locking
B—Hub
C—Flex-Drive
D—Slot



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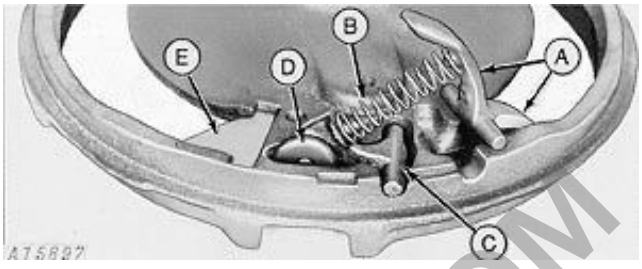
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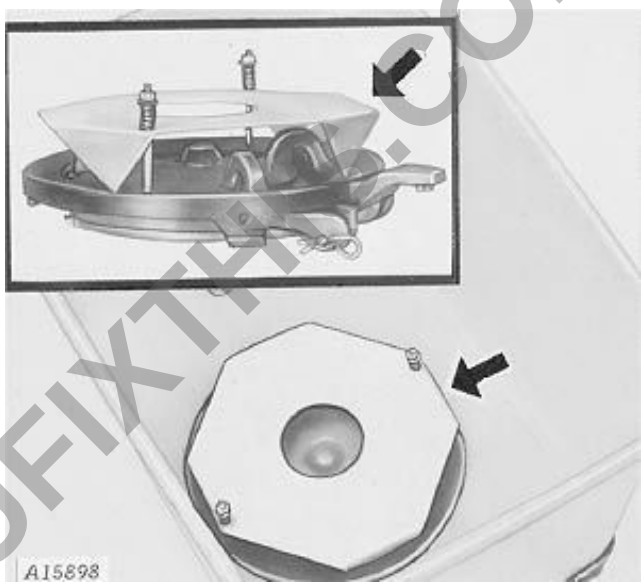
4. Clean any seed, chaff, or seed treatment buildup from knocker parts and cavities.

5. Be certain, when assembling hopper bottom, hopper baffle is installed as shown. The hopper baffle must be used to help support the weight of the seed and prevent excessive wear on hopper bottom parts.

A—Tongue
B—Spring
C—Knocker
D—Wheel
E—Knocker Baffle



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Hopper Baffle

B23,C5005,X -19-08MAY86

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Symptom	Problem	Solution
	Meter brush improperly installed.	Install brush properly.
	Using incorrect transmission sprocket combination.	Use sprocket combination recommended in planting rate chart or adjust upward due to excess drive slippage.
	Using incorrect double eliminator setting.	Reduce double eliminator coverage of vacuum hole.
	Drive tire or contact tire pressure low.	Inflate to proper pressure.
VACUUM METER		
High Seed Population.	High vacuum.	Adjust knob on control valve.
	Faulty vacuum gauge.	Check air line to gauge. Clean if plugged. Replace if cut, rezero gauge.
	Worn seed disks.	Replace seed disks.
	Seed size not compatible with seed disks.	Use correct seed disks.
	Planting too slow.	Plant at speed recommended in planting rate charts.
	Meter brush improperly installed.	Install brush properly.
	Seed disk hubs loose.	Tighten hubs.
	Using incorrect transmission sprocket combination.	Use sprocket combination recommended in planting rate charts or adjust downward due to low drive wheel slippage.
	Using incorrect double eliminator setting.	Increase double eliminator coverage of vacuum hole.
Seed tubes plugging.	Planter rolling backward when lowering.	Lower planter while moving forward.
	Turning tractor steering wheel when planter is down and stationary. (Four Wheel Drive tractors only.)	Avoid turning tractor when planter is down and stationary.

Continued on next page

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