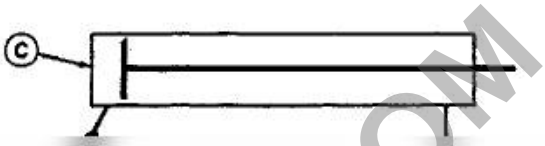
CLOSED-CENTER SYSTEM



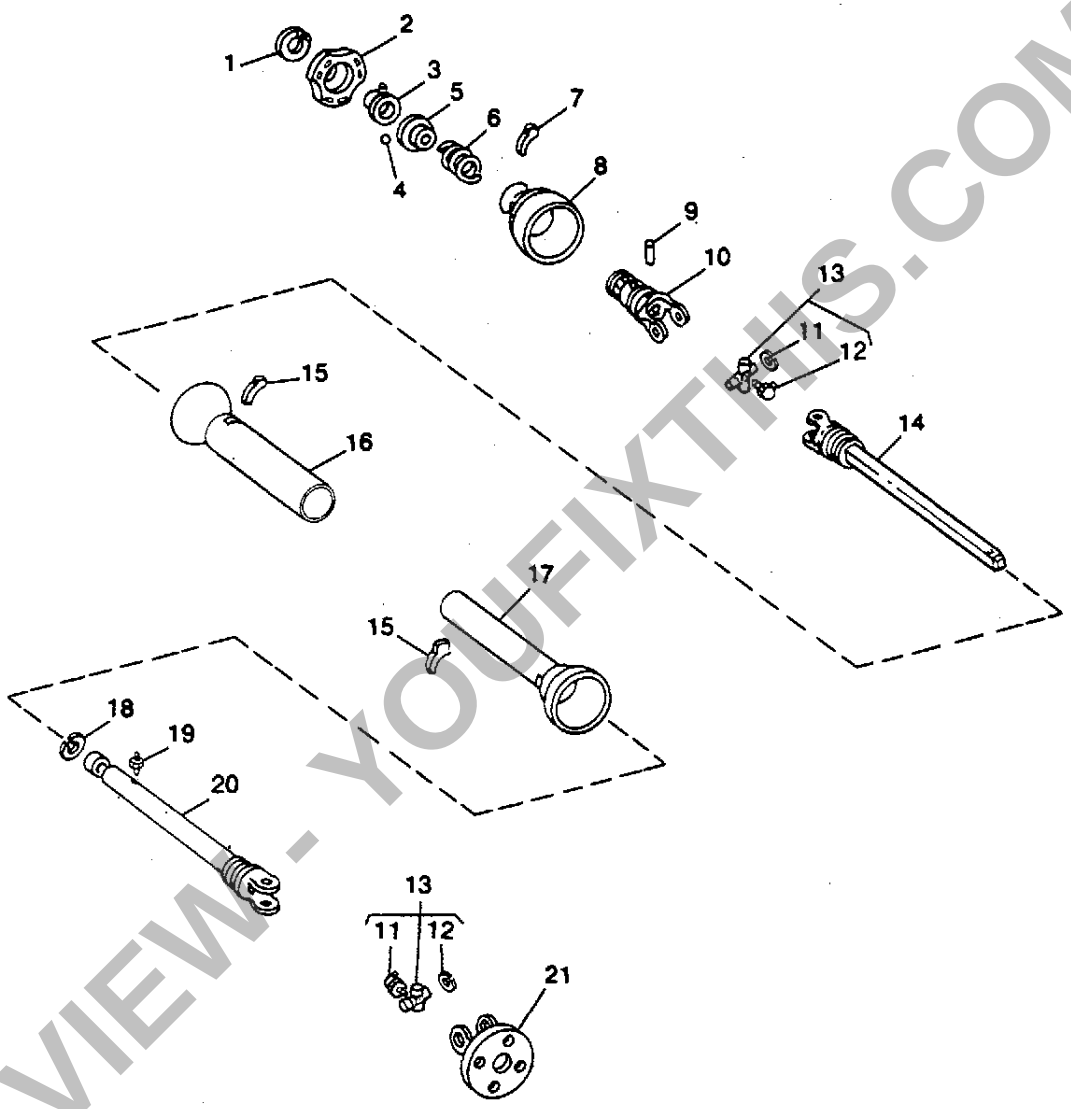
Cylinders Beginning Extension

Blurred on purpose. The manual you buy has this page in full quality.

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

POWR-GARD DRIVELINE—EXPLODED VIEW
450 SPREADER (-W00450X011000) AND 780 SPREADER, 540 RPM



1. Snap Ring
2. Push Button Collar
3. Latch
4. Ball
5. Retainer
6. Spring
7. Shield Bearing
8. Shield, Powr-Gard
9. Spring Pin
10. Yoke
11. Snap Ring
12. Lubrication Fitting
13. Cross and Bearing
14. Yoke, with Shaft
15. Shield Bearing
16. Shield, Outer
17. Shield, Inner
18. Snap Ring
19. Lubrication Fitting
20. Yoke, with Tube
21. Yoke, with Flange

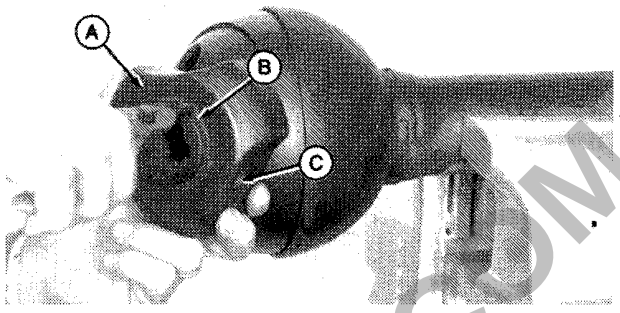
5EA;W13576 W02;;2015 -CA 110587

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

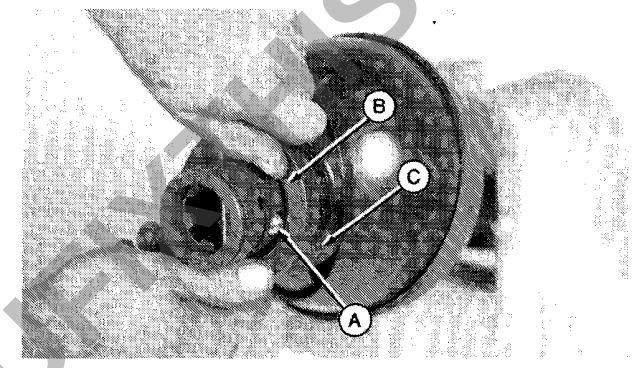
DISASSEMBLE POWR-GARD SHIELD

1. Support push collar (A) assembly. Remove snap ring (B).
2. Remove push collar (A) and push-button latch (C).



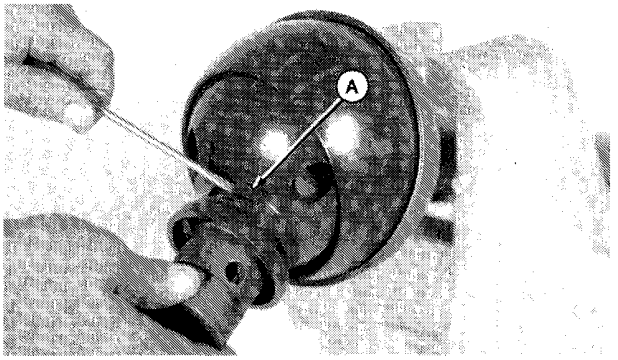
0FA;E22118 W02;;2015 -BA 010487

3. Remove three steel balls (A).
4. Remove collar retainer (B) and spring (C).



0FA;E18306 W02;;2015 -BB 161286

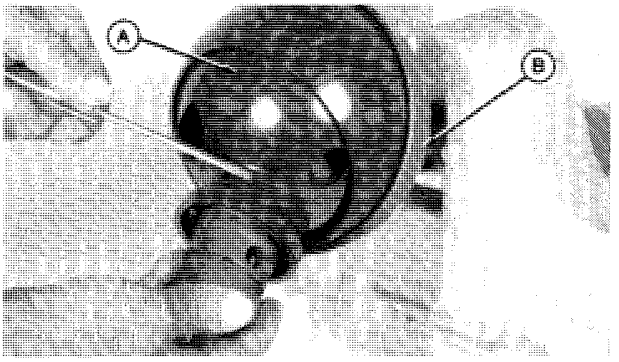
5. Lift locking bearings (A) up and out of assembly. Remove closure shield from yoke.



0FA;E18307 W02;;2015 -BC 161286

ASSEMBLE POWR-GARD SHIELD

1. Install closure shield assembly (A) and shield bearings.



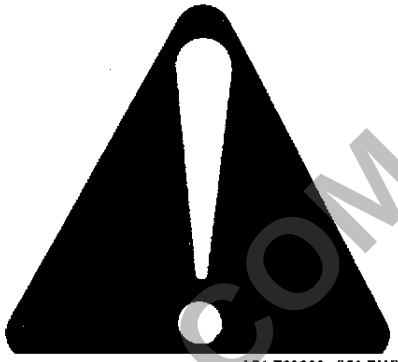
0FA;E18300 W02;;2015 -BL 010487

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

SAFETY AND YOU

This is the safety-alert symbol. When you see this symbol on the machine or in this manual, be alert to the potential for personal injury.



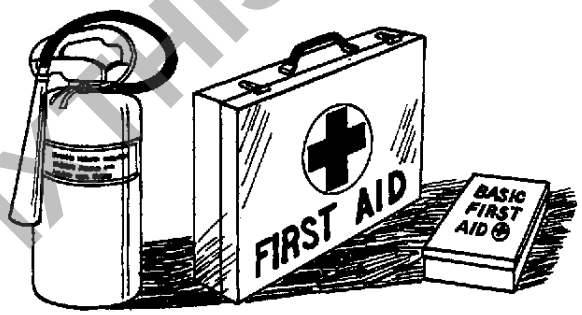
AB6;T81389 053;TMSAFE 071085

PREPARE FOR EMERGENCIES

Be prepared if a fire starts.

Keep a first aid kit and fire extinguishers handy.

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



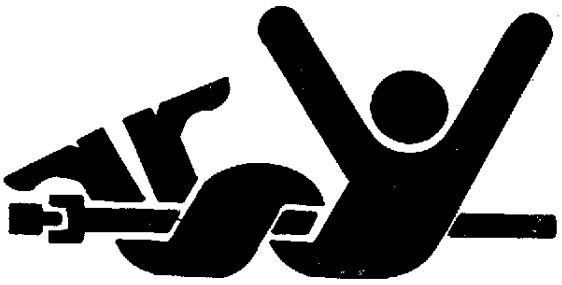
AB6;TS186 053;FIRE2 080785

STAY CLEAR OF PTO

Entanglement in rotating driveline can cause serious injury or death.

Keep tractor master shield and driveline shields in place at all times except for special applications as directed in the implement operator's manual.

Wear fairly tight fitting clothing. Stop the engine and be sure PTO driveline is stopped before making adjustments, connections, or cleaning out PTO driven equipment.



AB6;TS198 053;PTO 280186

WEAR PROTECTIVE CLOTHING

Wear fairly tight clothing. . . . . and safety equipment.



AB6;TS184 053;WEAR2 080785

PREVIEW - YOUFIXTHIS.COM
Download full manual at youfixthis.com

450 AND 780 HYDRA-PUSH™ MANURE SPREADERS TECHNICAL MANUAL TM-1318 (JUNE-87)

SECTION AND GROUP CONTENTS

SECTION 10—GENERAL INFORMATION
- Group 05—Introduction And Safety
- Group 10—General Specifications
- Group 15—Lubricants
- Group 20—Serial Numbers

SECTION 20—BEATER DRIVE
- Group 05—General Information
- Group 10—Operational Checks
- Group 15—Driveline Repair
- Group 20—Clutch Repair
- Group 25—Input Shaft Repair
- Group 30—Drive Sprockets and Chain Repair
- Group 35—Beater Side Shaft Repair
- Group 40—Gear Case Repair
- Group 45—Main Beater Repair
- Group 50—Upper Beater Repair

SECTION 30—HYDRAULICS
- Group 05—General Information
- Group 10—Testing
- Group 15—Secondary Cylinder Repair
- Group 20—Primary Cylinder Repair
- Group 25—Endgate Cylinder Repair
- Group 30—Closed-Center Hydraulic Control Valve Repair
- Group 35—Open-Center Hydraulic Control Valve Repair

SECTION 40—MISCELLANEOUS
- Group 05—Wooden Guides and Wiper Seals Repair
- Group 10—Wheels and Axle Repair
- Group 15—Moving Panel Repair
- Group 20—Sliding Floor Repair
- Group 25—Endgate Repair
- Group 30—FRP Panel Repair

All information, illustrations and specifications contained in this technical manual are based on the latest information available at the time of publication. The right is reserved to make changes at any time without notice.

COPYRIGHT© 1987
DEERE & COMPANY
Moline, Illinois
All rights reserved
A JOHN DEERE ILLUSTRUCTION

W02;;0000 -A 090687

PREVIEW - YOUFIXTHIS.COM
Download full manual at youfixthis.com

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

CYLINDERS IN NEUTRAL—PRESSURE OIL TO PRIMARY CYLINDER



Blurred on purpose. The manual you buy has this page in full quality.

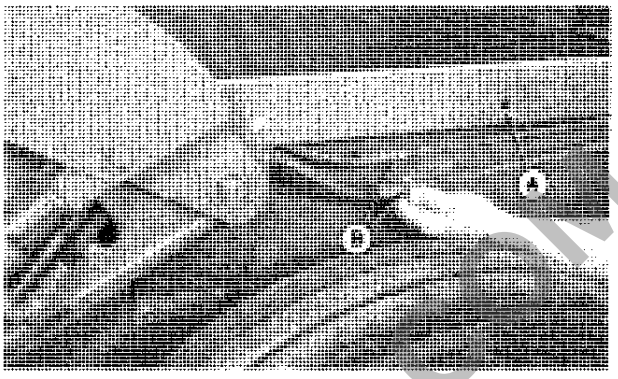
PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

REMOVE ENDGATE CYLINDER— 450 SPREADER

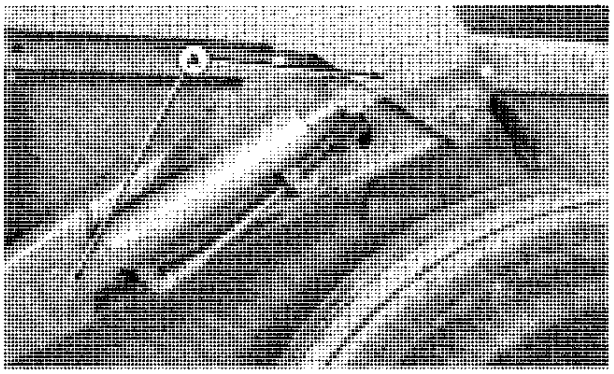
CAUTION: Escaping fluid under pressure can penetrate the skin causing serious injury. Relieve pressure before disconnecting hydraulic or other lines. Tighten all connections before applying pressure. Keep hands and body away from pinholes and nozzles which eject fluids under high pressure. Use a piece of cardboard or paper to search for leaks. Do not use your hand.

If ANY fluid is injected into the skin, it must be surgically removed within a few hours by a doctor familiar with this type injury or gangrene may result.



5EA;W13587 W02;;3025 -BC 030487

1. Remove clamp at (A).
2. Identify hose and tube connections with a tag or tape for ease of reassembly.
3. Disconnect hoses from tubes at (B).
4. Remove snap rings on insides of pins (A).
5. Remove pins and cylinder.



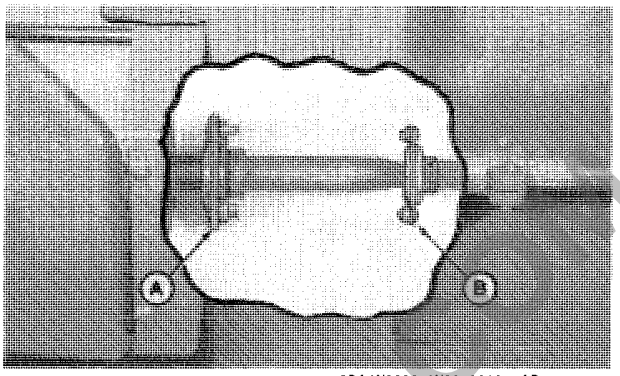
5EA;W13586 W02;;3025 -BC 030487

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

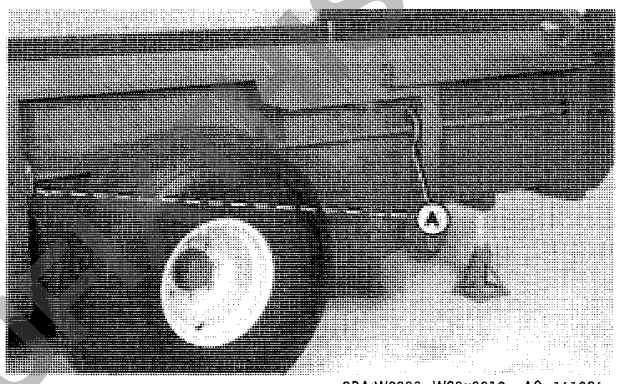
Bearing (A) and (B) are located in the front left-hand corner. (Extend the sliding panel/moving panel slightly to access from inside the spreader box). Check shaft for movement and bearings for wear.

NOTE: Bearing (B) is not used on 450 Spreader.



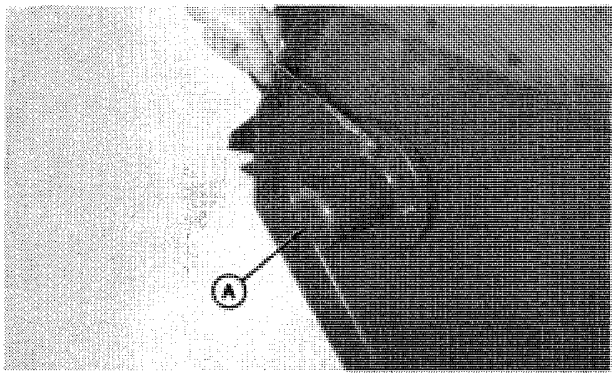
8DA;W9922 W02;;2010 -AB 010487

Check two bearings located a (A).



8DA;W9923 W02;;2010 -AC 161286

Remove cap (A) to check right-hand beater bearing.



8DA;W9924 W02;;2010 -AD 161286

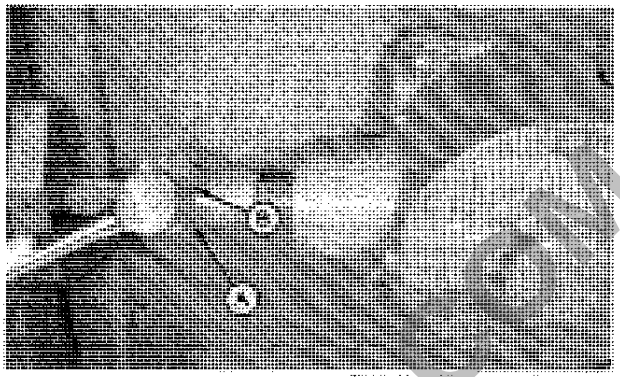
PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

3. Slide coupler forward over side shaft.

4. Install spring pin (B).

5. Tighten cap screws on coupler (A).(780 only)

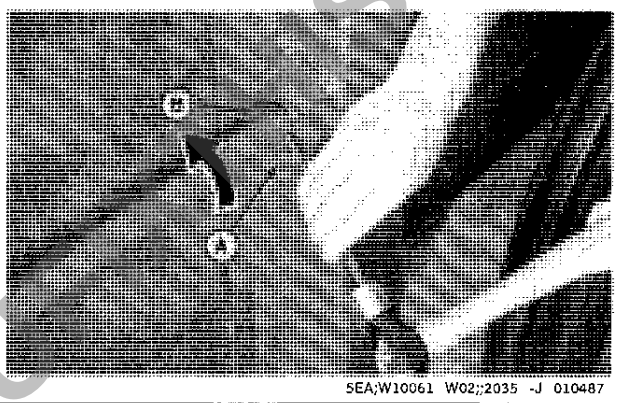


6. Tighten hardware on flangettes and bearings (A) at each support.

7. Tighten locking collars (B) at each support in same direction as shaft rotates and lock with set screw.

8. Paint side shaft to prevent corrosion.

9. Replace side shaft shields.

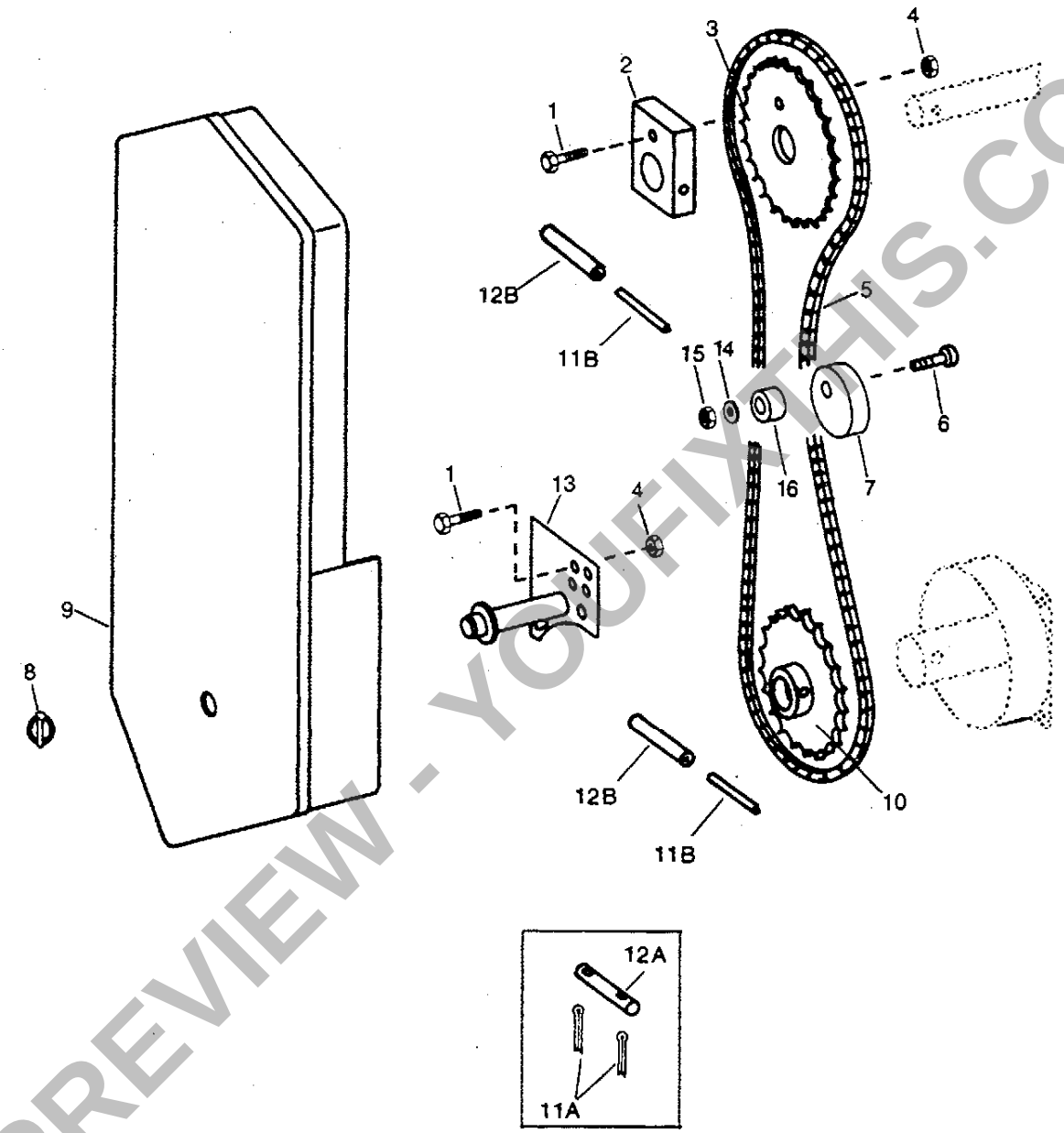


5EA;W10061 W02;;2035 -J 010487

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

UPPER BEATER DRIVE EXPLODED VIEW
450 SPREADER



1. Shear Bolt, M8 x 45
2. Hub
3. Sprocket, 25 Tooth
4. Lock Nut, M8
5. Chain, RC-2060,45 Links
6. Bolt, M12 x 80
7. Idler
8. Quick Lock Pin
9. Shield
10. Sprocket, 18 Tooth
11A. Cotter Pin
11B. Cotter Pin 4.2x50mm
12A. Pin
12B. Coiled Pin 10.5x50mm
13. Support
14. Washer
15. Lock Nut, M12
16. Bushing

5EA;W13600 W02;;2050 -3B 090687

W55;020050 02 130587

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

METERED FLOW— OPEN CENTER CONTROL VALVE

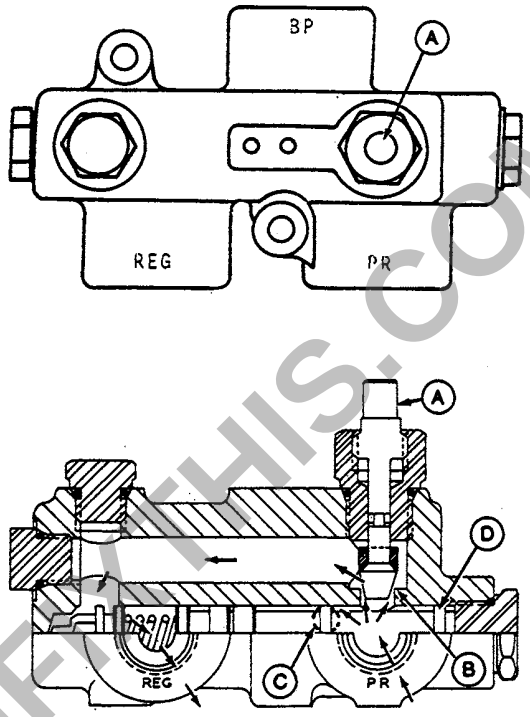
Oil flow is metered by turning stem (A) counterclockwise lifting stem off seat (B).

Bypass oil returns to the tractor through port (C) labeled BP.

Metered oil flows to the cylinders from the port labeled REG.

Spool (D) senses any oil pressure drop and will move to open or close the bypass port. This ensures that flow rate of metered oil remains constant.

When stem is seated, no oil flows through regulated port. All oil flows through the bypass port back to the tractor.



5EA;W10244 W10242 W02;;3005 -X 220487

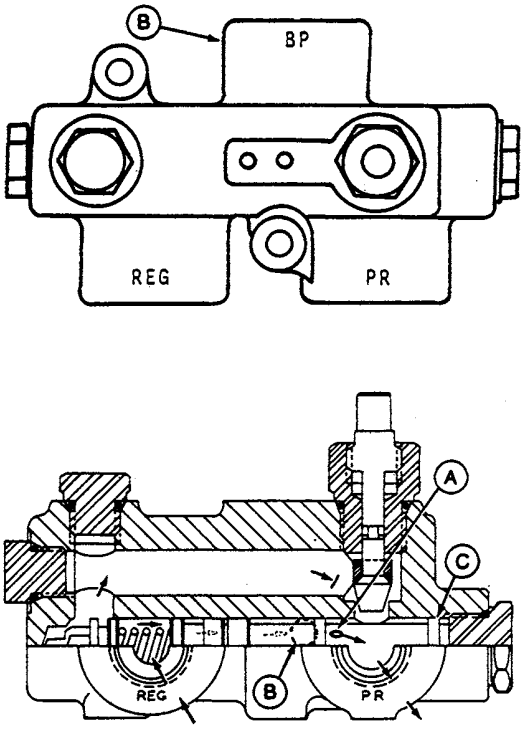
RETURN FLOW— OPEN CENTER CONTROL VALVE

Return oil enters regulated port (REG), passes through an internal passage, and opens check valve.

Oil exits spool through orifice (A) to pressure port (PR) and back to tractor.

Spool (C) moves to block the bypass port (B).

Full oil flow is supplied to return the cylinders through the T-fitting connected to the bypass line.



5EA;W10248 W10243 W02;;3005 -Y 220487

PREVIEW - YOUFIXTHIS.COM
Download full manual at youfixthis.com

PREVIEW ONLY

You're viewing 12 of 266 pages

The full manual includes:

- All 266 pages, complete
- Searchable PDF (find any keyword)
- No watermarks
- Instant download
- Print-ready quality

GET FULL MANUAL NOW

John Deere 450, 780 Technical Manual

Scan or click anywhere
youfixthis.com

Click anywhere on this page to get the full manual