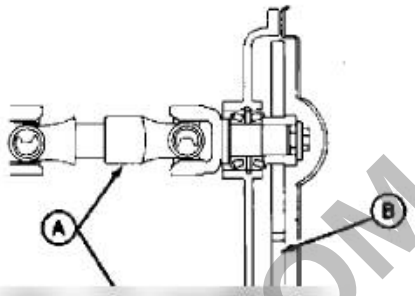
When servicing the mower-conditioner, pay particular attention to the tractor-mower-conditioner hookup geometry, page 01 and 02.

Power is transmitted from the tractor through the powerline to a 105-degree main drive gear case, which drives the roll drive gear case and the cutterbar drive sheave. A belt from the cutterbar drive sheave drives the cutterbar gear case. The rolls are driven from the roll drive gear case through a series of U-joints. A chain and

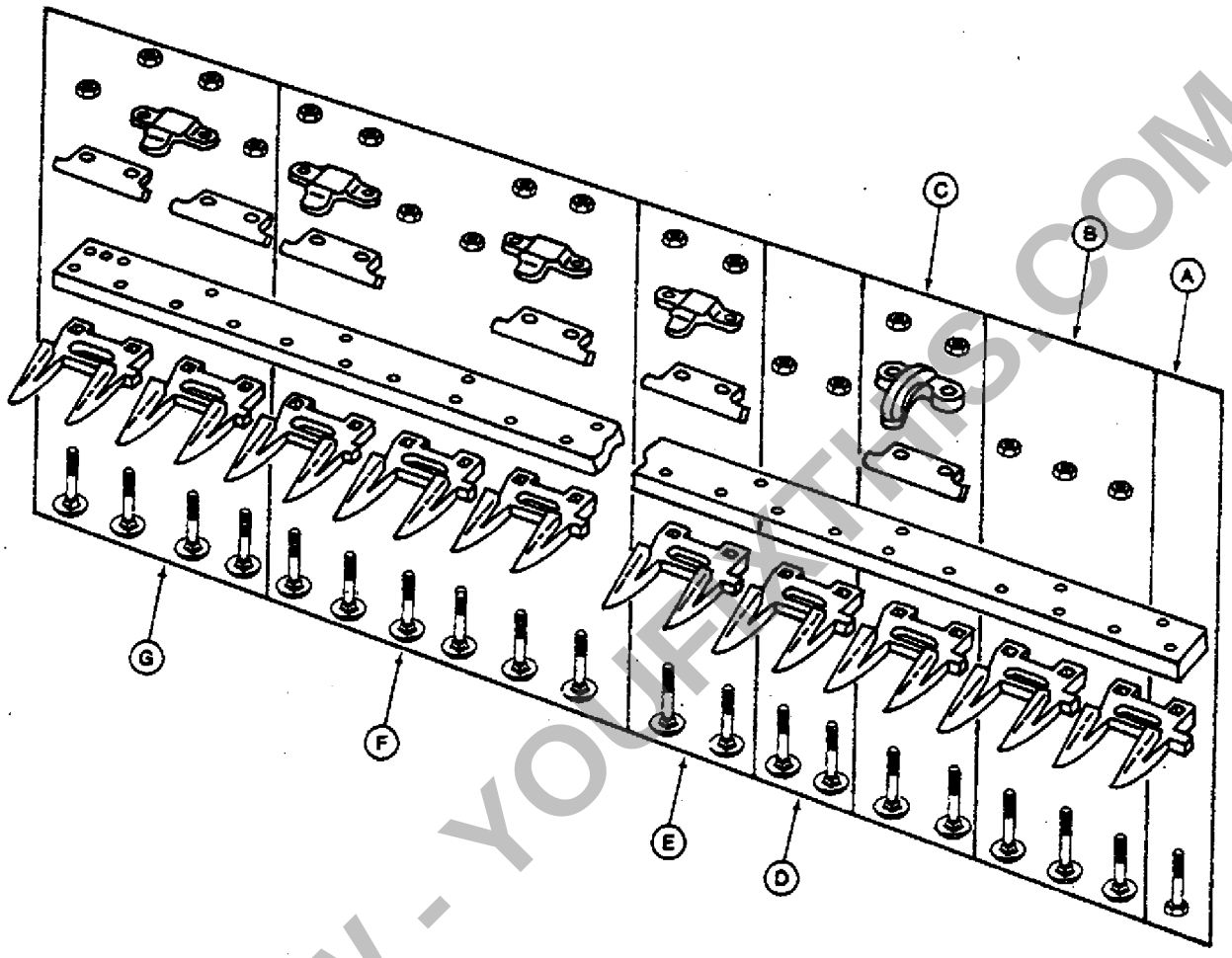


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INSTALL REGULAR CUTTERBAR PARTS (—710000)



E21596 -UN-05MAY89

A—Reference Location — Step 3
B—Reference Location — Step 4
C—Reference Location — Step 5
D—Reference Location — Step 6
E—Reference Location — Step 7
F—Reference Location — Step 8
G—Reference Location — Step 9

EX,1284,4015,A -19-28AUG92

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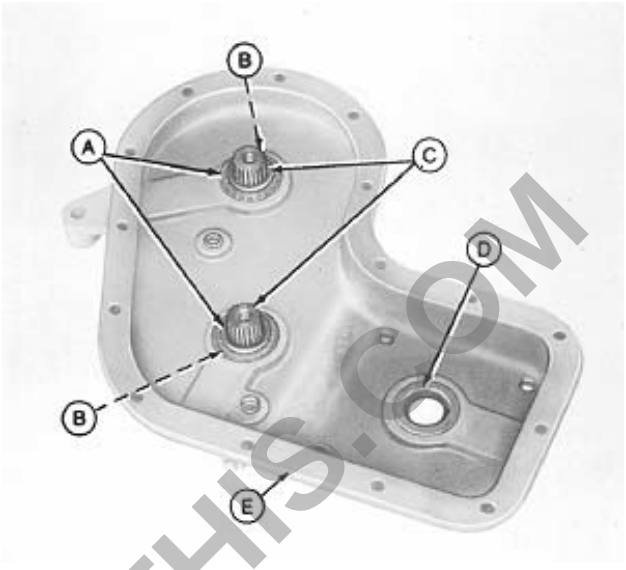
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6. Press roll drive shafts (C) from roll drive gear case. Remove bearings (A) from cups. Remove oil seals from gear case.

IMPORTANT: Mark bearing location for assembly. Bearings and snap ring must be placed on same roll.

7. With shafts out of case, check bearing cups for damage. If not damaged, do not remove cups from case.

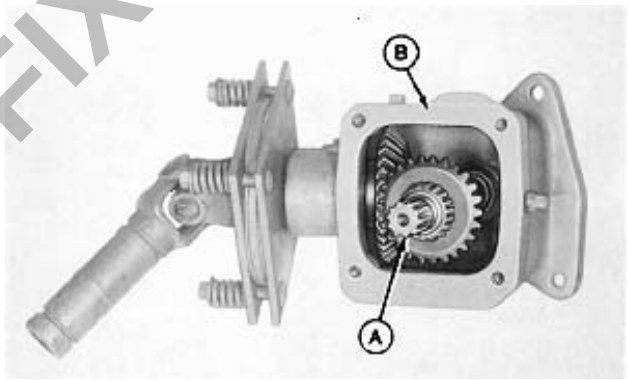
A—Bearings
B—Oil Seal
C—Roll Drive Shafts
D—Oil Seal (-285000)
E—Gear Case



E21520 -UN-10JUL92

EX,2025,ZAN -19-28AUG92

8. Lift pinion shaft (A) from main drive gear case (B).



E21540 -UN-10JUL92

EX,2025,ZAO -19-28AUG92

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ADJUST ROLL PRESSURE (1209—1219) (285001-)

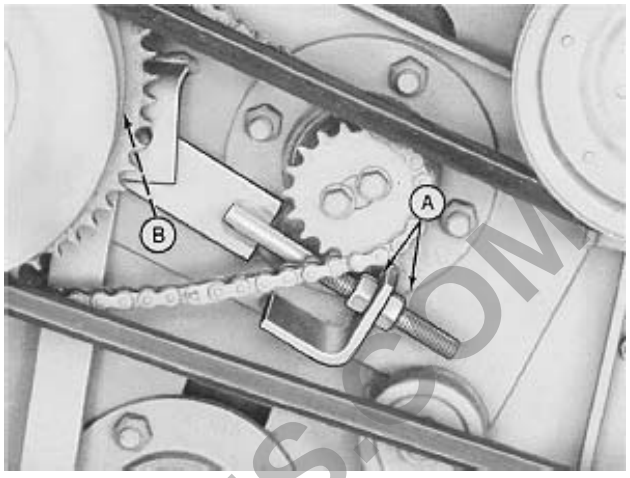
For certain crops it may be necessary to adjust the roll pressure. When the conditioner rolls are too aggressive for tender crops, decrease the roll pressure. Tougher crops may require a higher roll pressure.

1. To increase roll pressure, turn adjusting nuts (A) until pin (B) moves toward front of slot.

2. To decrease roll pressure, turn adjusting nuts (A) until pin (B) moves toward rear of slot.

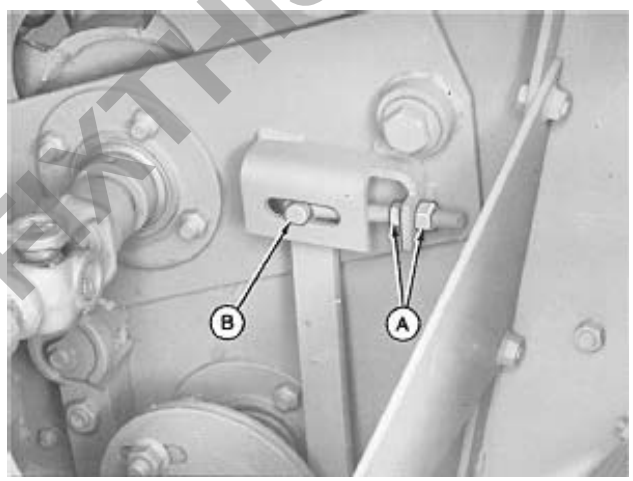
3. Adjust each end of rolls equally.

IMPORTANT: Adjust for only enough pressure to condition the crop. Over-conditioning of crop and serious damage to the machine will result if excessive roll pressure is used.



E12678Y -UN-08JUL92

Right-Hand Pressure Adjustment



E12585 -UN-10JUL92

Left-Hand Pressure Adjustment

EX,2030,ZBQ -19-28AUG92

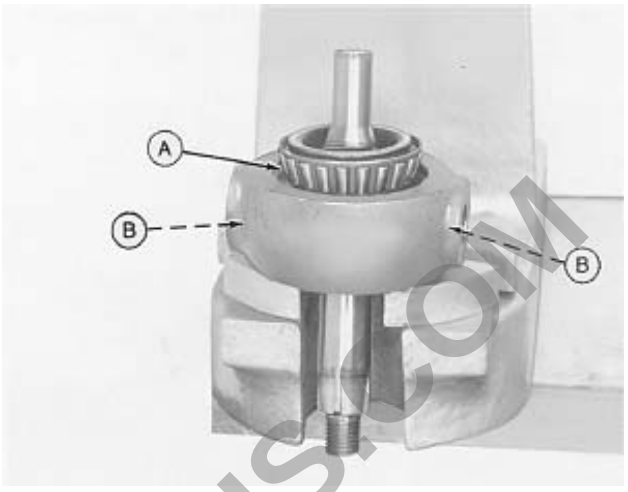
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IMPORTANT: Always use new housing after disassembly to insure adequate press of spindles.

2. Press cones (A) in housing.

3. Insert both plugs (B) in housing.



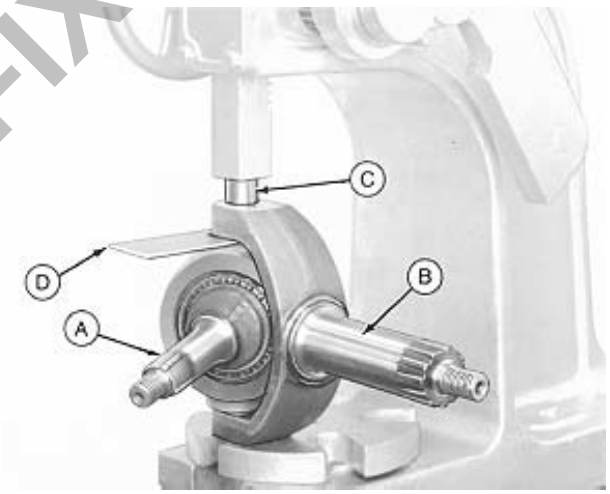
E15729 -UN-07JUN89

EX,4010,ZT -19-28AUG92

IMPORTANT: Always use new spindles after disassembly to insure a good press.

NOTE: The use of a shim helps from "over-pressing" spindle (C) into bearing cups. See Section 50 to make shim.

4. Assemble wobble shaft assembly (A) to yoke (B) with spindles (C).



E15731 -UN-20SEP88

EX,4010,ZU -19-28AUG92

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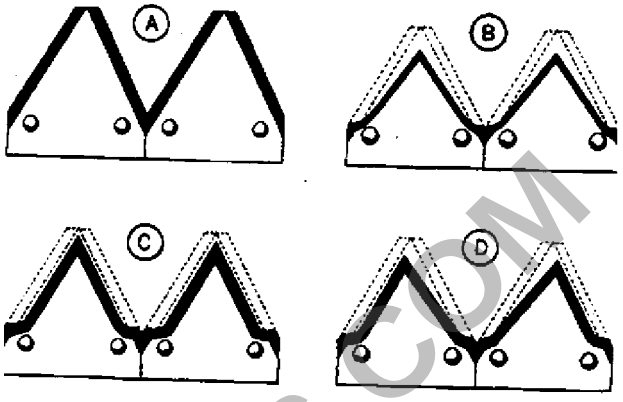
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SHARPEN KNIFE SECTIONS ON BOTH NON-CLOG AND REGULAR CUTTERBARS

IMPORTANT: Do not sharpen the knife too rapidly. It will cause the steel in the cutting edge to burn. This is indicated by a blue discoloration.

Keep the knife straight and sharp, with sections firmly riveted to knife back.

When sharpening the knife, restore the original shear angle and bevel to 20 to 35 degrees.



E12768 -UN-26APR89

A—New sections—proper bevel and angle for good work.
B—Improperly ground sections; narrow bevel and wrong angle which changes the angle of "shear".
C—Sections properly ground. Even after repeated grinding, proper bevel and angle are retained.
D—Sections ground off center, destroying the register of blade in guard.

40 20 2

EX,4020,XA -19-10AUG92

REPLACE RIVETED KNIFE SECTIONS

IMPORTANT: Strike rivet from side as shown rather than from front to keep knife section aligned.

1. Using chisel, remove tops of rivets (C) holding damaged section (A).

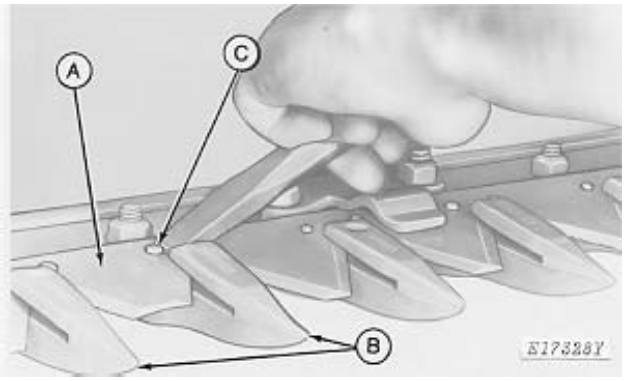
NOTE: To use riveting tool on non-clog cutterbar, guards may need to be removed.

Remove old rivet with rivet tool (D, below) or shear old rivet heads (C) with chisel and heavy hammer.

2. Lift off section.

3. Back off punch sleeve of riveting tool to open it.

4. Back off punch screw until punch can be pushed completely back into sleeve.



E17328 -UN-07JUN89

EX,1284,4020,ZC-19-28AUG92

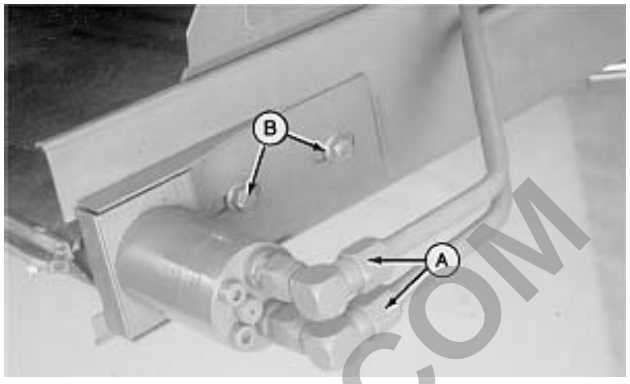
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REMOVE HYDRAULIC MOTOR

1. Loosen canvas.

2. Loosen fittings (A) and remove hydraulic lines from motor. Tie lines out of way.

3. Remove nuts (B) from motor support.



E05,6010,A -19-10AUG92

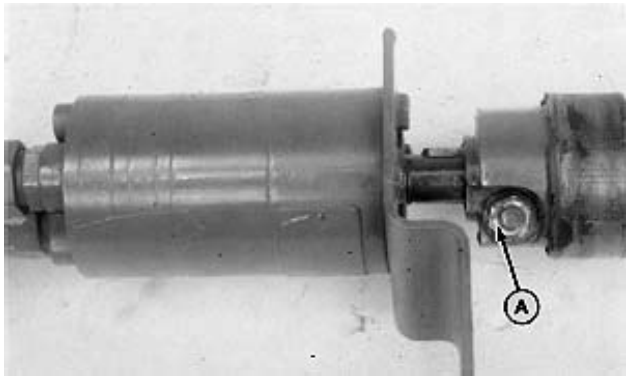
4. Pull motor connected to roll from canvas.



E05,6010,B -19-12JUN92

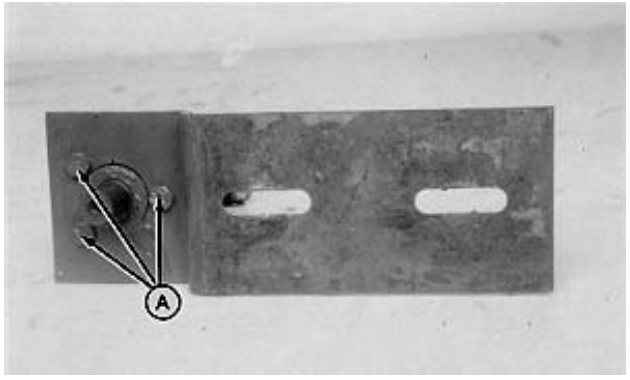
5. Loosen clamp bolt (A). Spread clamp with a screwdriver.

6. Separate motor from roll.



E05,6010,C -19-12JUN92

7. Remove three cap screws (A) from motor support.

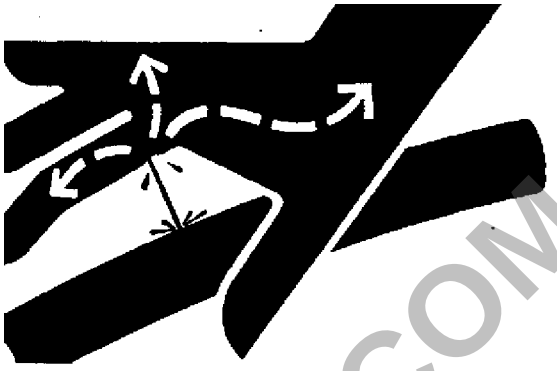


E05,6010,D -19-12JUN92

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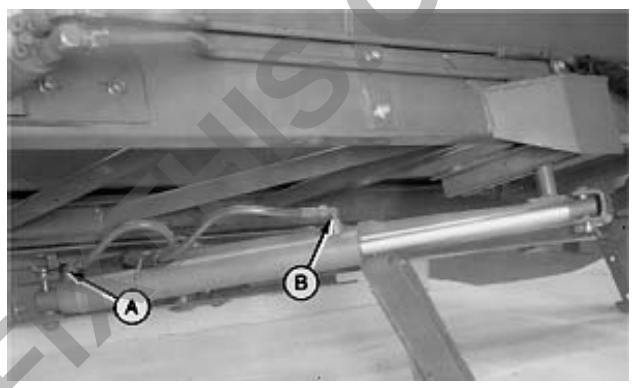
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REMOVE TABLE SHIFT CYLINDER


X9811 -UN-23AUG88

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.



E24783 -UN-29AUG89

1. Remove hydraulic lines from ports (A) and (B).

2. Remove cotter pin and drilled pin from both ends of cylinder.

3. Remove cylinder.

E05,6020,A -19-10AUG92

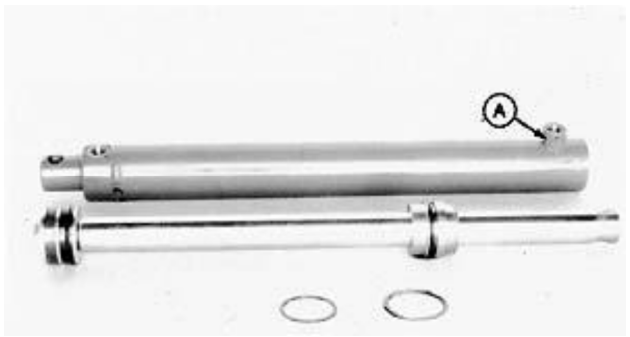
CYLINDER IDENTIFICATION

There are two manufacturers of the cylinders, Bruning and Cessna.

Each manufacturer's cylinder design is different and requires different disassembly procedures and repair parts.

The Bruning cylinder has a welded port (A) on the rod end of the cylinder. The Cessna cylinder does not have this welded port.

Before disassembling cylinders, determine which type of cylinder is used and which type of repair kit is needed. See Disassemble Bruning Cylinder or Disassemble Cessna Cylinder.



E22056 -UN-20JUL89

E05,6020,B -19-12JUN92

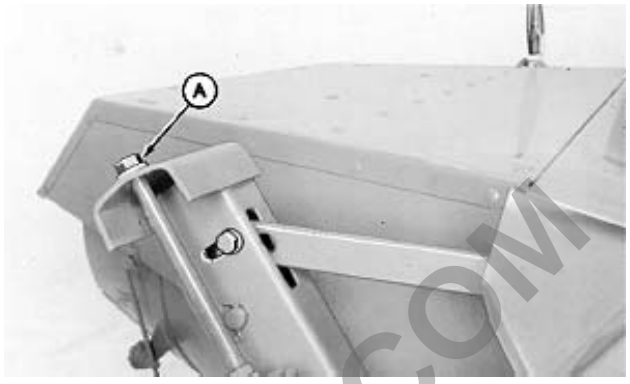
60
20
1

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REMOVE ROLLS

1. Completely loosen adjusting bolt (A) on right-hand side to remove all spring pressure.



EX,2030,ZAL -19-28AUG92

2. Loosen reel drive belt (A) and allow to hang on drive sheave.

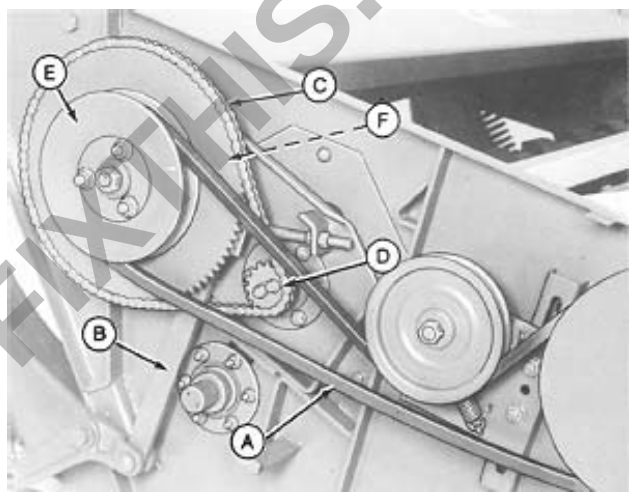
3. Remove cotter pin, pin and connecting rod (B).

4. Loosen reel drive support (F) and remove roll drive chain (C).

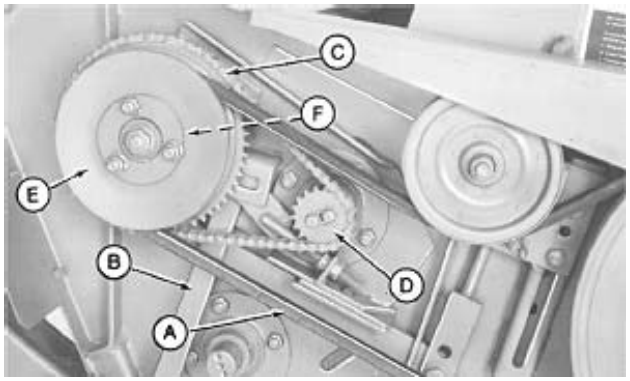
5. Remove reel drive sprocket (D).

6. Remove nut, washer, reel drive sheave (E) and washer.

A—Reel Drive Belt
B—Connecting Rod
C—Roll Drive Chain
D—Reel Drive Sprocket
E—Reel Drive Sheave
F—Reel Drive Support



Right-Hand Drives (1207)



Right-Hand Drives (1219)

EX,2030,ZAM -19-28AUG92

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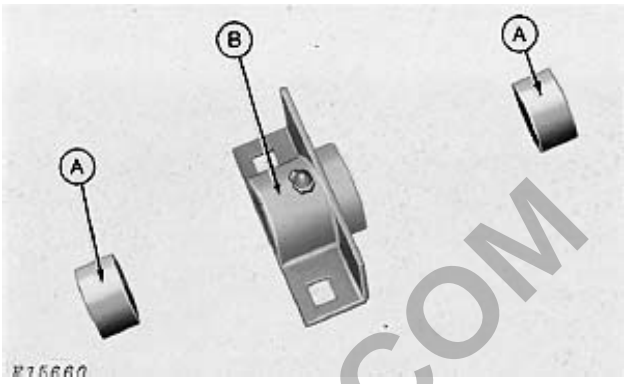
INSPECT REEL

1. Check reel mounting (B) and bushings (A) and if signs of wear are evident, press and replace.

2. Check cam follower bearings.

3. Inspect all remaining parts for damage or excessive wear.

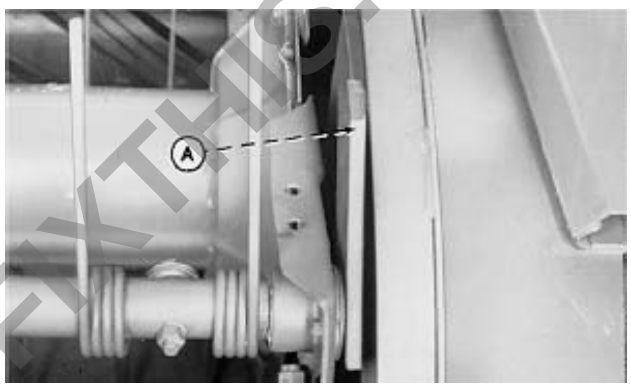
4. Check reel drive belt for fraying.



EX,2010,ZQ -19-28AUG92

INSTALL REEL

1. Install reel and engage cam followers (A) into cam in the “following” position.

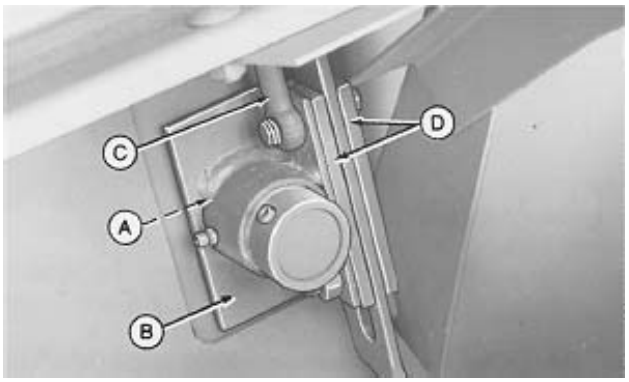


E05,2010,Y -19-28AUG92

2. Place spacer washers (A) on reel shaft.

NOTE: Install the same amount of washers removed during disassembly.

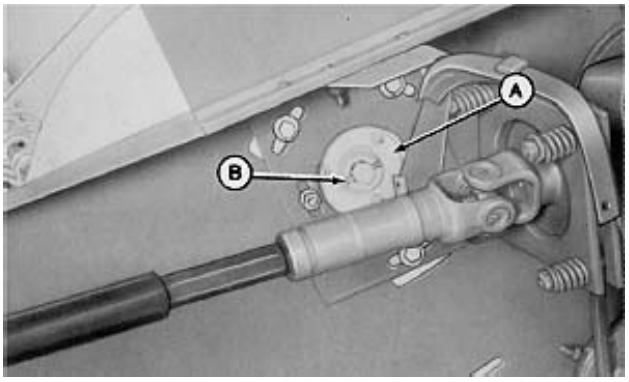
3. (1209—1219) Attach reel mounting (B), eyebolt (C), spacers (D) and secure using carriage bolt, nut and cap screw.



E05,2010,Z -19-28AUG92

4. (1207—1217) Install left-hand bearing (A) and secure using carriage bolts and nuts.

5. (1207—1217) Install spring pin (B).



E05,2010,AA -19-28AUG92

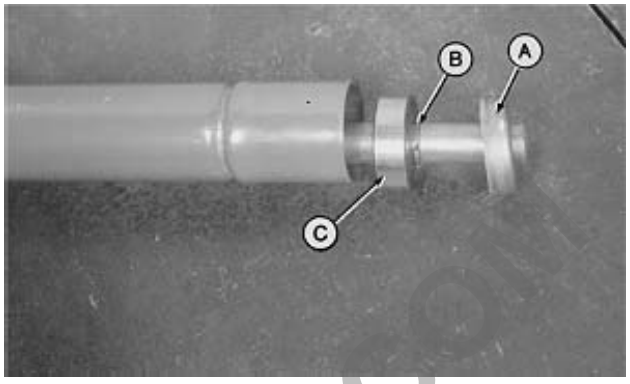
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3. Remove cap (A) from end of shaft.

4. Remove snap ring (B).

5. Remove bearing (C).



E05,6025,F -19-12JUN92

6. Place rod (A) on bearing edge. Press bearing and cap from roll.



E05,6025,G -19-12JUN92

INSPECT IDLER ROLL

Inspect bearings for roughness.

Inspect rod for straightness.

Inspect inside of tube for roughness.

E05,6025,H -19-12JUN92

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RECOGNIZE SAFETY INFORMATION

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

Follow recommended precautions and safe operating practices.



T81389 -UN-07DEC88

DX,ALERT -19-04JUN90

UNDERSTAND SIGNAL WORDS

A signal word—DANGER, WARNING, or CAUTION—is used with the safety-alert symbol. DANGER identifies the most serious hazards.

DANGER or WARNING safety signs are located near specific hazards. General precautions are listed on CAUTION safety signs. CAUTION also calls attention to safety messages in this manual.



TS187 -19-30SEP88

DX,SIGNAL -19-09JAN92

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

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