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GENERAL SERVICE MANUAL INTRODUCTION

Know the Equipment

Study this Service Manual carefully. It has been specially designed to provide concise procedures for properly servicing the equipment. Always check the manual first.

Right and Left-Hand Side of Machine

Stand behind the machine and face the direction of travel to determine right and left-hand machine sides.

Serial Numbers

The serial number is located on the left side of the main frame.

ATTENTION! PICTURES IN THIS MANUAL MAY SHOW PROTECTIVE SHIELDS AND GUARDS OPENED OR REMOVED FOR ILLUSTRATION PURPOSES. BE CERTAIN ALL SHIELDS AND GUARDS ARE IN PLACE DURING OPERATION.

GENERAL SERVICING INFORMATION

CLEANING - Before any service work is done, clean the complete outside surface. Clean all internal metal parts in cleaning solvent or by steam cleaning. Do not use caustic soda for steam cleaning. After cleaning, dry and lubricate all parts. Clean oil passages with compressed air.

INSPECTION - Visually inspect all parts when disassembled. Replace all parts that have wear or damage. The replacement of parts as necessary will prevent early failure.

GEARS - Check all gears for wear and damage. Replace worn or damaged gears.

OIL SEALS, O-RINGS AND GASKETS - Always install new oil seals, O-rings and gaskets. Put oil or petroleum jelly on seals and O-rings.

BEARINGS - Check bearings for smooth action. If a bearing has a loose fit or rough action, replace the bearing. If necessary, wash bearings with clean solvent and permit to air dry. DO NOT DRY WITH COMPRESSED AIR. Lubricate bearings after cleaning to prevent rust.

Bearings can be heated in a bearing oven for assembly. Do not use a torch to heat bearings. Do not heat the bearing beyond a temperature of 300°F (150°C). Heating will temporarily increase the clearance between the shaft and inner bearing race so that a hydraulic press is not needed when installing a bearing on a shaft.



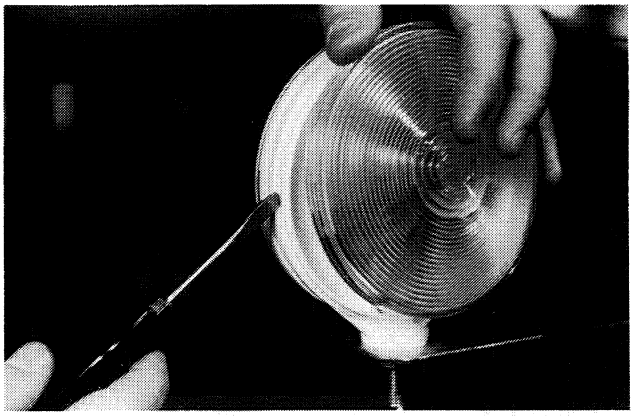
Use only metric tools on metric fasteners.

After servicing, be sure all tools, parts, and servicing equipment are removed from the machine.

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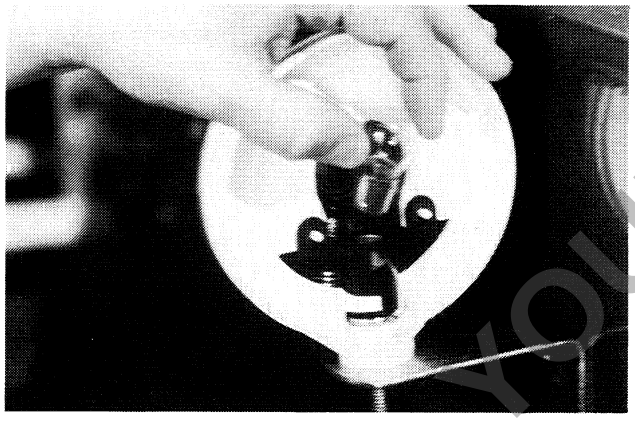
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STEP 10



Use a screwdriver to pry the lens from the light bracket.

STEP 11



Remove the light bulb.

STEP 12



Set the multimeter to a DC scale of 12 volts or higher. Touch the positive (red) meter lead to the center terminal of the light fixture. Touch the negative (black) meter lead to the wall of the light socket. Press down on the tractor brake pedal. The voltmeter should show a reading of 12 volts or slightly higher. If it does, the bulb is defective. Replace the bulb.

STEP 13

If the voltage in step 12 was zero, or less than 12 volts, unplug the mower harness socket from the tractor socket. Inspect the mower harness socket to determine which terminal feeds power to the red stop light. Use the color of the wire insulation to follow the wire from the light fixture to the harness socket. Locate the matching terminal on the tractor socket.

STEP 14

Touch the positive meter lead to the stop light terminal of the tractor socket. Touch the negative meter lead to a bare metal ground on the tractor frame. Press down on the tractor brake pedal. The meter should show a reading of 12 volts or slightly higher. If the meter does not give a reading of 12 volts or higher, the tractor electrical system is the cause of the light malfunction.

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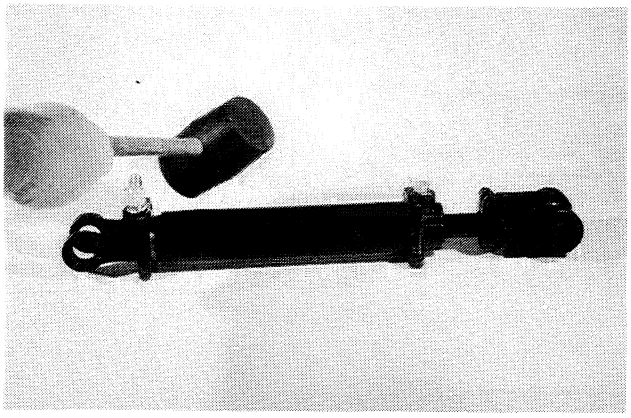
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Disassemble Cylinder

STEP 30

Remove the cylinder tie studs.

STEP 31



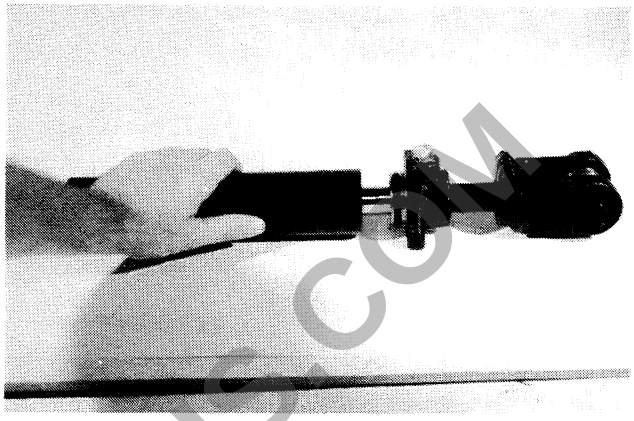
Remove the cylinder base from the cylinder body (tap lightly with rubber mallet).

STEP 32



Remove the cylinder head from the cylinder body (tap lightly with rubber mallet).

STEP 33



Remove the piston rod assembly from the cylinder body.

STEP 34

Inspect all seals and O-rings. Replace as required.

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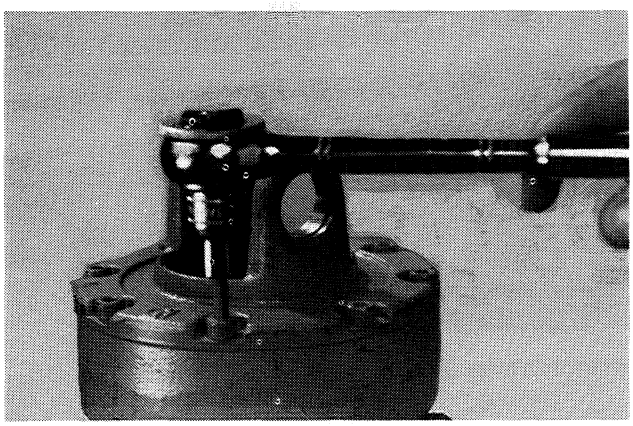
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Clutch
Disassembly

STEP 15



Remove eight capscrews from clutch cover.

STEP 16

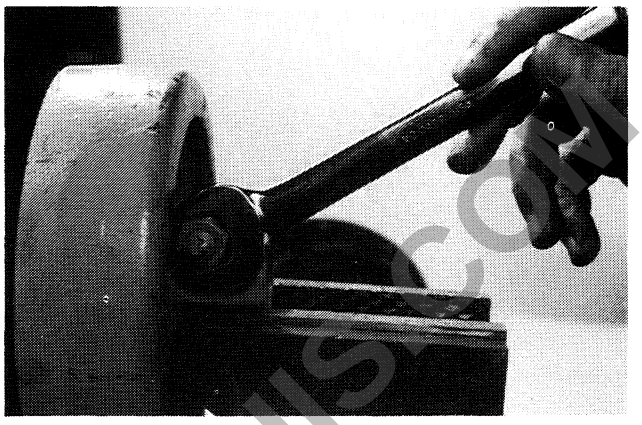


Remove the clutch cover.

STEP 17

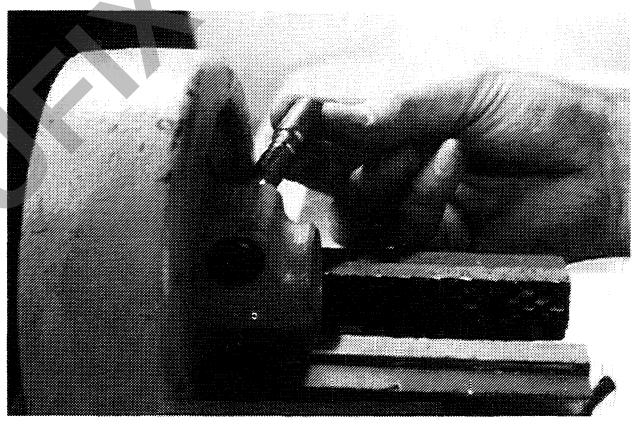
Place a hand over the clutch and turn the clutch over. Three friction discs and two plates will fall free. Stack them in the order that they were removed.

STEP 18



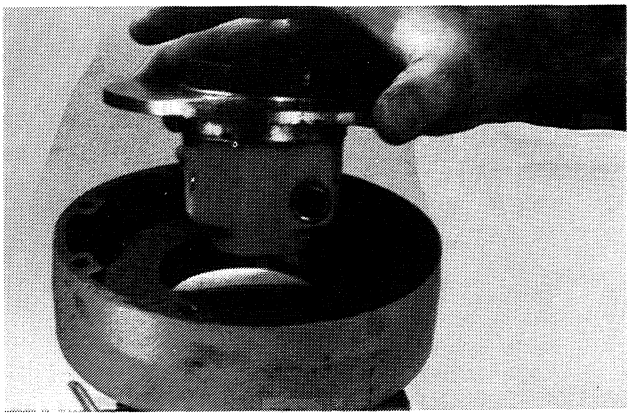
Remove nut from tapered pin.

STEP 19



Remove tapered pin.

STEP 20



Remove clutch hub.

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GEAR CASE

Removal

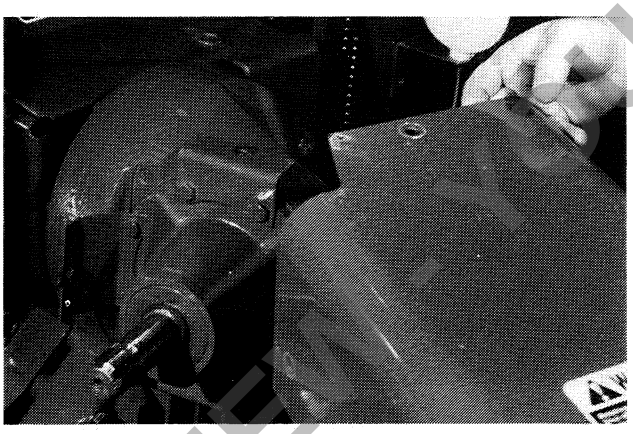
CAUTION: *Coat gears, bearings, shafts, and races with lubricant before pressing or driving.*

STEP 1



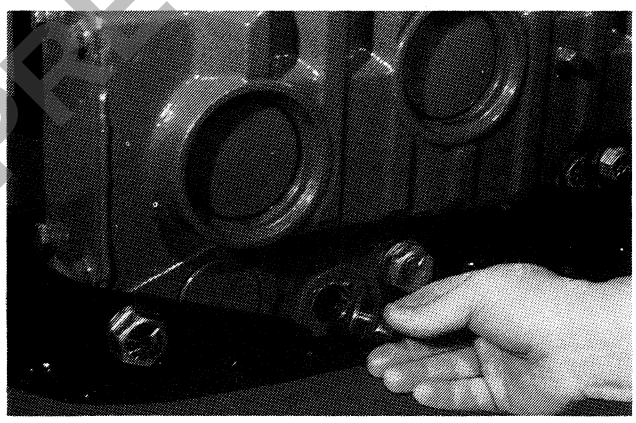
Remove the PTO shaft shield retaining bolts.

STEP 2



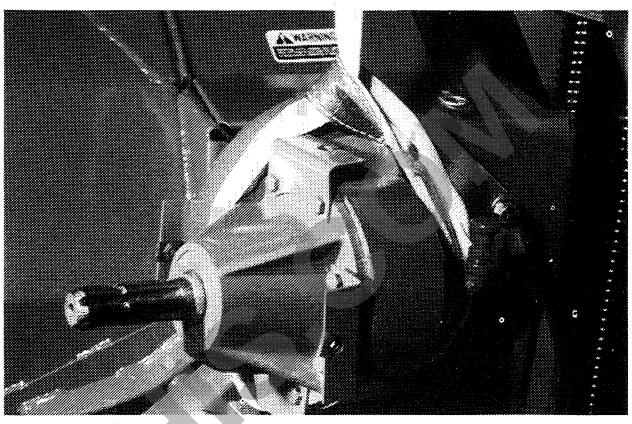
Remove the PTO shaft shield.

STEP 3



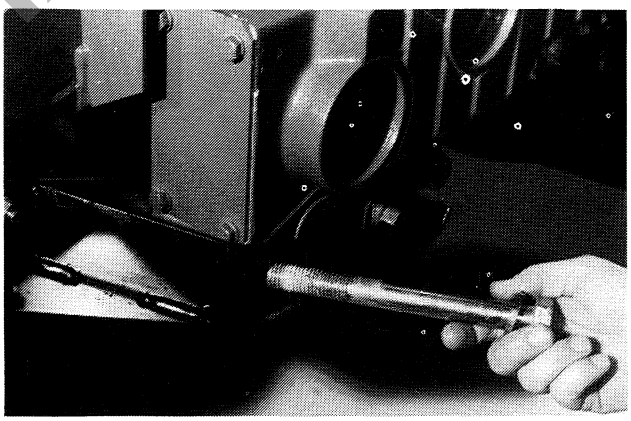
Remove the drain plug from the bottom of the gear case and drain the gear lube.

STEP 4



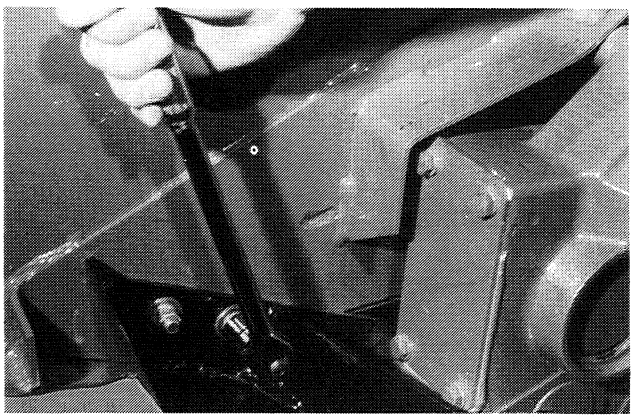
Support the gear case with a strap or chain and a hoist of at least 2000 pounds capacity before removing bolts.

STEP 5



Remove the two large bolts and all of the smaller bolts that hold the gear case to the frame.

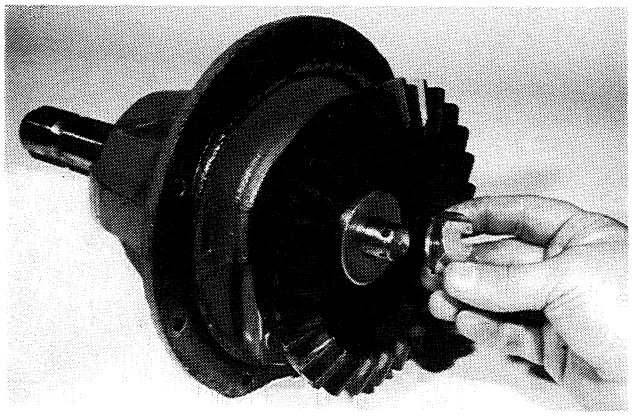
STEP 6



Remove bolts from the left skid shoe.

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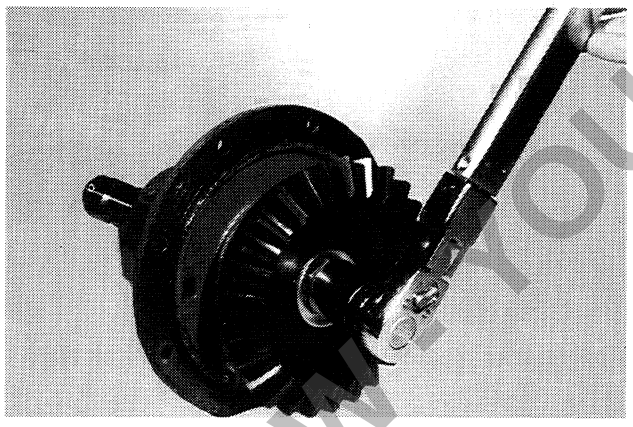
STEP 52



Place the nut on the shaft and tighten until snug.

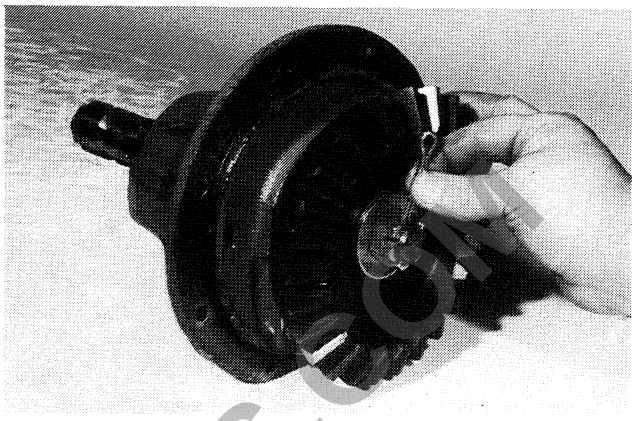
NOTE: *To gain leverage for tightening the nut in the next step, slide the rear drive shaft onto the input shaft and insert a pry bar in the yoke.*

STEP 53



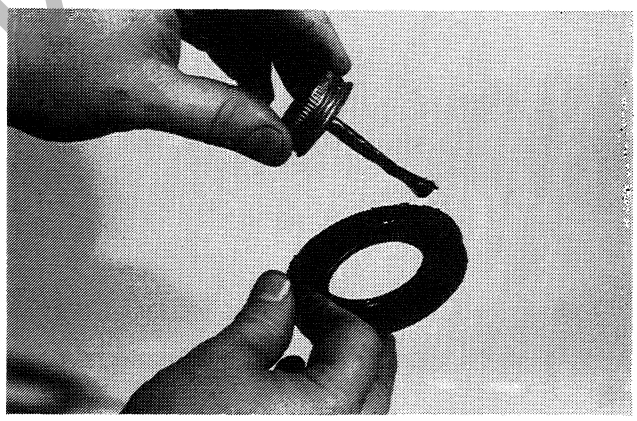
Place a torque wrench on the nut. It should take 2 to 10 in. lb. torque to rotate the shaft. If rotation starts with less than 2 in. lb. torque applied, insert the pry bar and tighten the nut slightly. Take another reading. As the nut is tightened, the inner bearing is pressed farther onto the shaft, resulting in higher bearing preload.

STEP 54



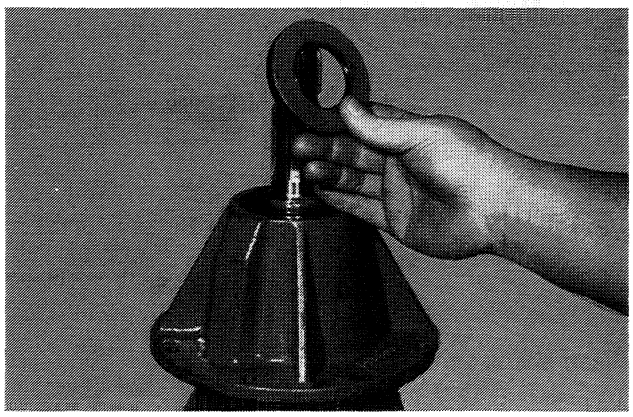
After the correct torque reading has been reached, install a cotter pin in the nut. Bend the ends of the cotter pin over.

STEP 55



Spread a light coating of Case M20458 Formagasket #3 gasket sealer on the outer rim of the oil seal.

STEP 56



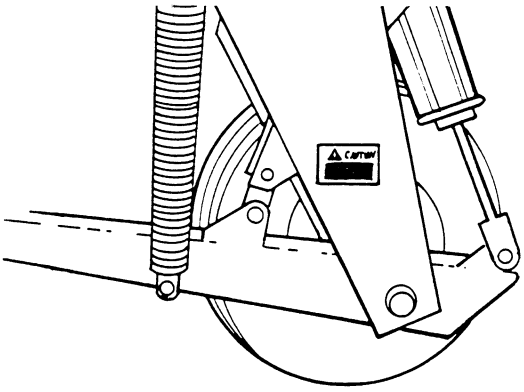
Slide the oil seal over the input shaft, being careful not allow gasket sealer to contact the shaft. Press the seal into the bore.

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CUTTERBAR
Removal

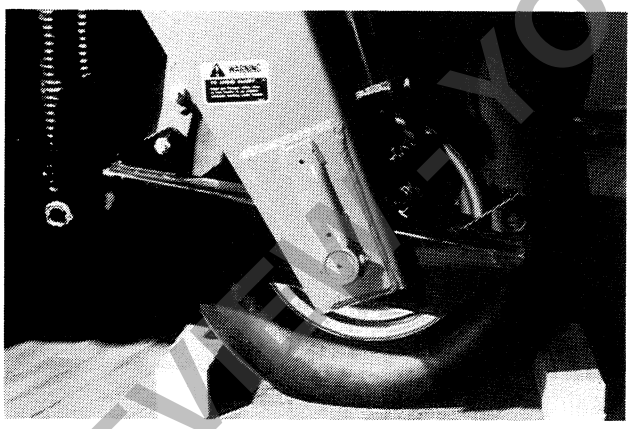
WARNING: *Block the wheels and install Safety Support Strap prior to working below the header. Be careful! "Your safety and the safety of others is your concern".*

STEP 1



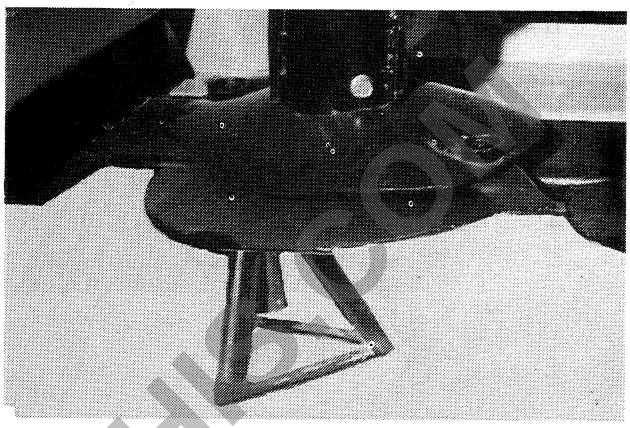
Raise the header with tractor power or a hydraulic jack and install the safety support straps.

STEP 2



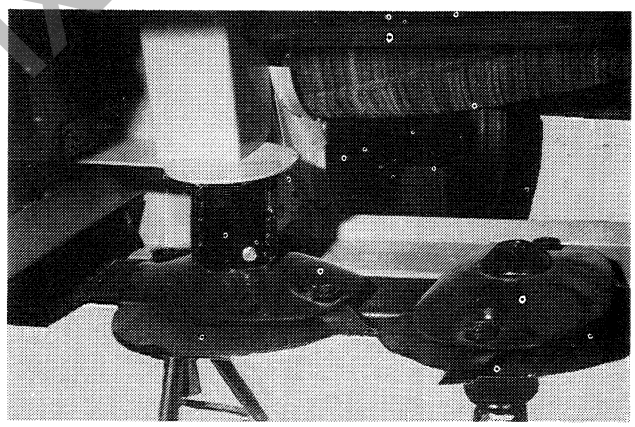
Block both wheels.

STEP 3



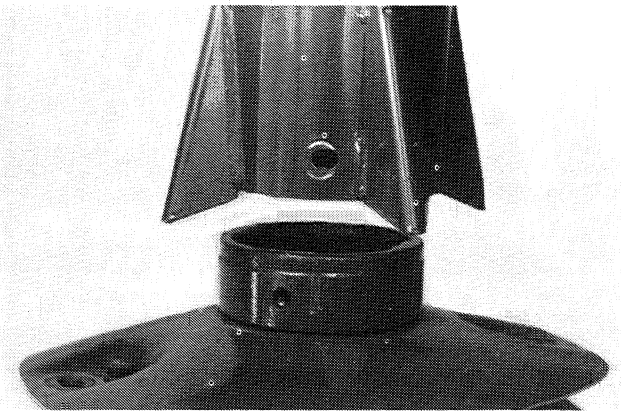
Place safety supports below both ends of the cutterbar.

STEP 4



Remove the stripper support.

STEP 5



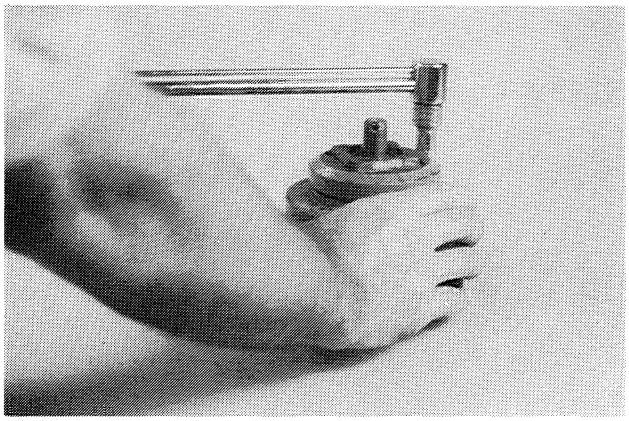
Remove the crop divider from the end disc drive unit.

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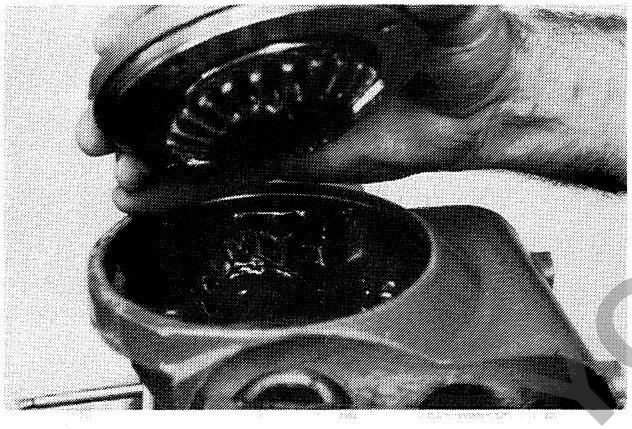
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STEP 7



Remove four capscrews.

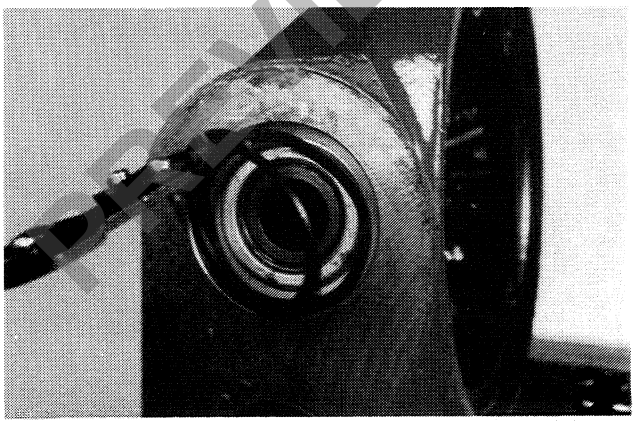
STEP 8



Carefully pry the bearing housing from the main housing.

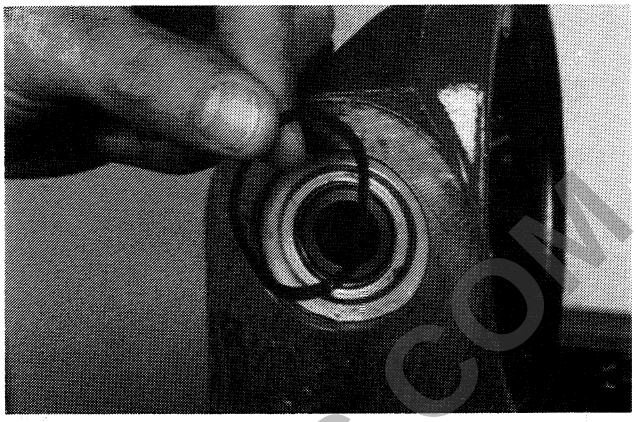
NOTE: *DO NOT damage shims.*

STEP 9



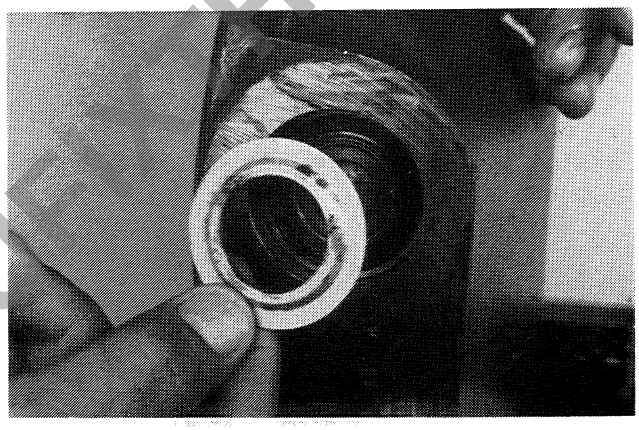
Remove the snap ring from the opposite end of the drive gear.

STEP 10



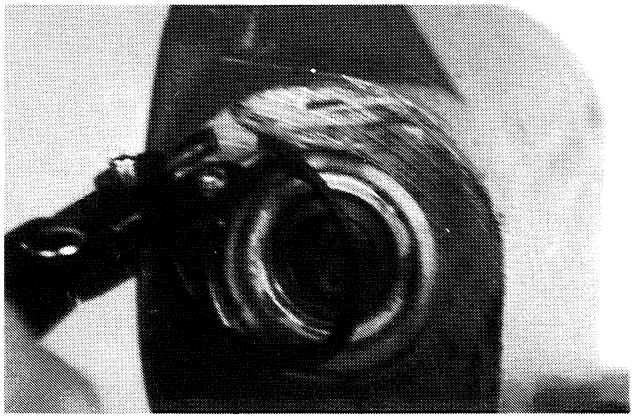
Remove the spring washer.

STEP 11



Remove the bearing shield from the housing.

STEP 12



Remove the snap ring from the disc drive housing.

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