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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.

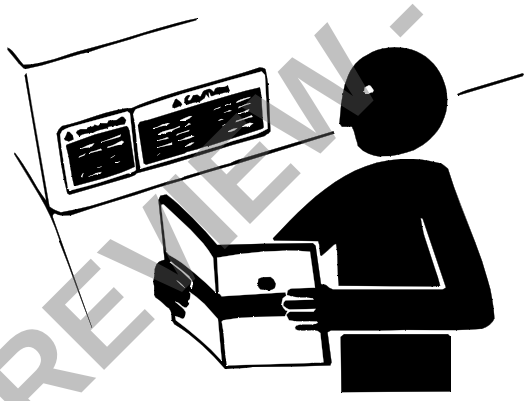
Follow recommended precautions and safe servicing practices.

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.

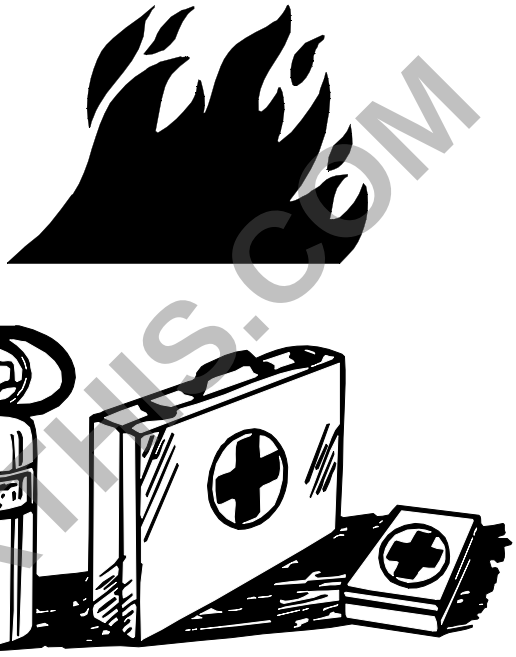
REPLACE SAFETY SIGNS



Replace missing or damaged safety signs. See the machine operator's manual for correct safety sign placement.

HANDLE FLUIDS SAFELY-AVOID FIRES

Be Prepared For Emergencies



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.
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.

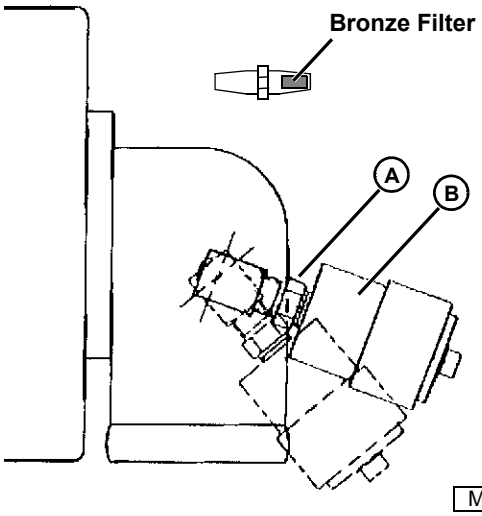
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ENGINE REPAIR

AIR FILTER RESTRICTION INDICATOR REPLACEMENT

NOTE: Replace the bronze filter whenever the indicator is replaced.



IMPORTANT: The porous bronze filter end of fitting (A) must be threaded into the indicator (B).

1. The air filter restriction indicator (B) is threaded onto the bronze filter until snug.
2. Position the indicator (as viewed from the side of the machine) at a 20—50° angle.

ENGINE REMOVAL

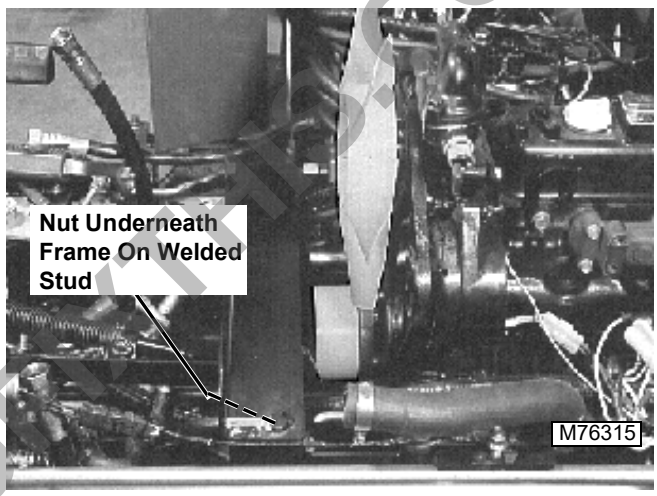
1. Park vehicle on a level surface.

CAUTION

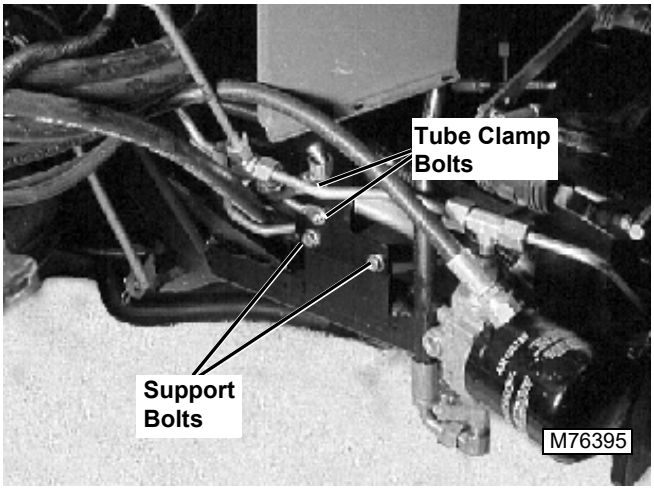
Raise the machine safely and support it with suitable jack stands.

Never work on machine while supported only on mechanical or hydraulic jack

2. Jack and block machine to provide a minimum of 18” of clearance between the floor and the bottom of the frame of the machine at the engine.
3. Move Mow/Transport lever to TRANSPORT position.
4. Lower cutting units to the ground.
5. Turn Ignition switch OFF.
6. Engage park brake.
7. Disconnect battery negative (-) cable.
8. Close fuel shutoff valves located on right side of fuel tank.
9. Place 5 gal. container under sump and drain hydraulic fluid.
10. Remove hood.
11. Remove plenum air duct.
12. Remove front bumper assembly.
13. Remove Radiator.



14. Remove nut from welded stud on underside of radiator support crossmember.

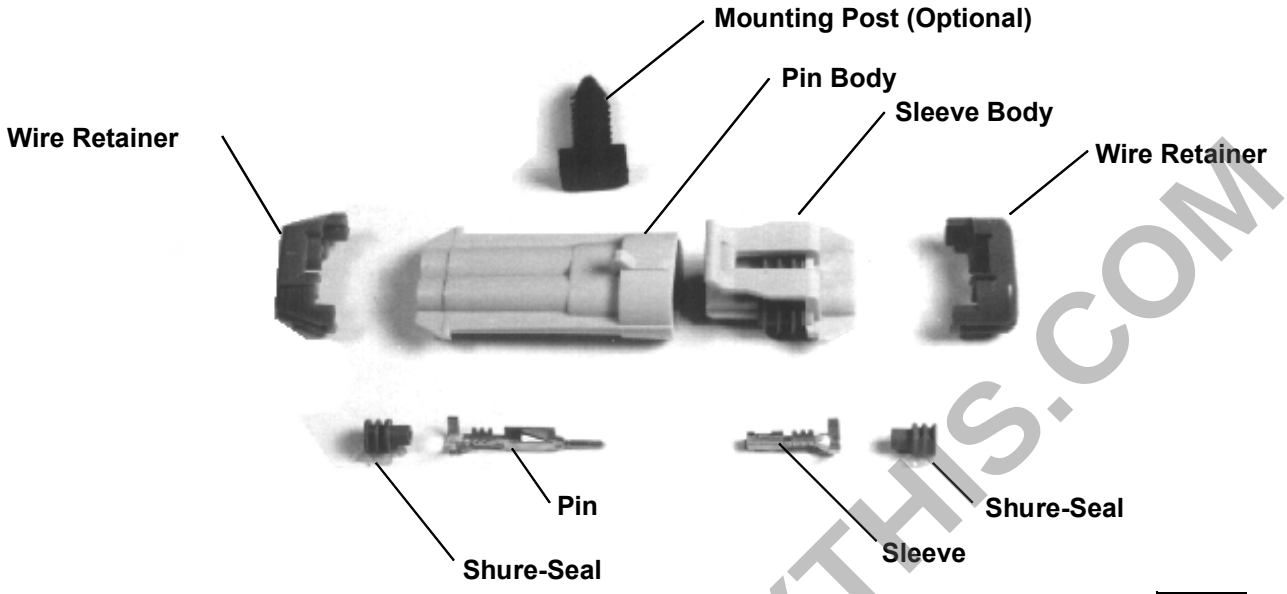


15. Remove two flange head bolts securing tube clamp to frame.
16. Remove two flange head bolts retaining lower end of radiator support to frame.
17. Swing radiator support bracket out of the way of the front of the engine subframe.
18. Remove hydraulic pumps.

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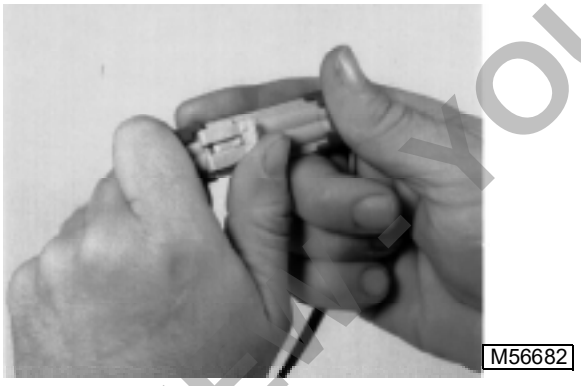
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METRO-PACK™ CONNECTOR REMOVAL



M56685

IMPORTANT: Identify wire number/color locations with connector terminal letters.



M56682

1. Open connector body.



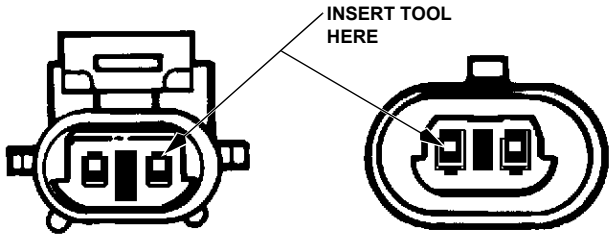
M56684

2. Remove retainer on wire end of connector with a screwdriver.



M56690

3. Use JDG777 Terminal Removal Tool to remove contact from connector body.

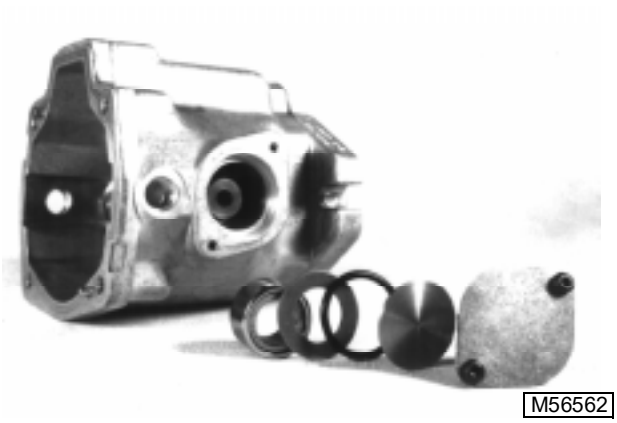


M56691

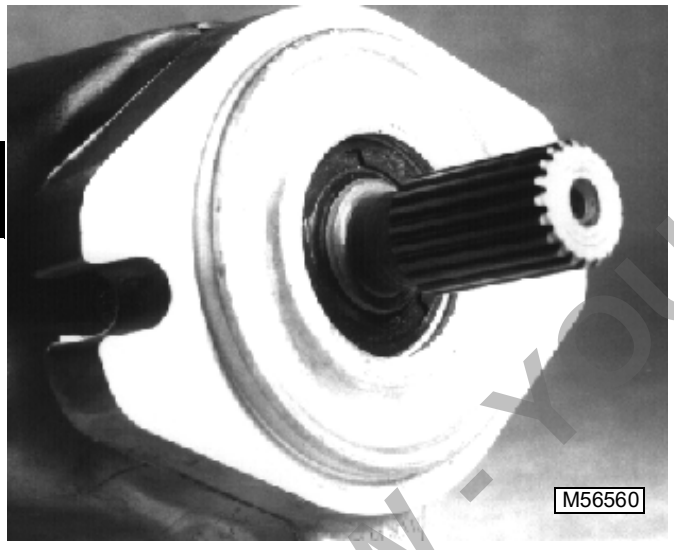
NOTE: To remove sleeve connector from sleeve body (short connector half) insert tool in slot between terminal contact and connector body. To remove pin connector from pin body (long connector half) insert tool in center of contact.

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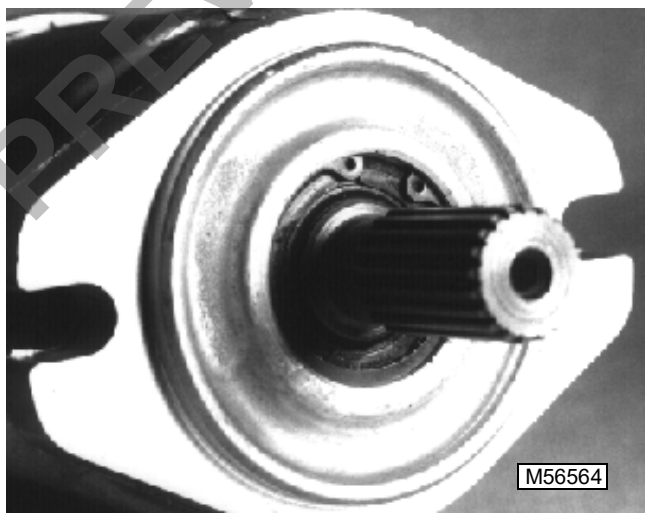
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M56562

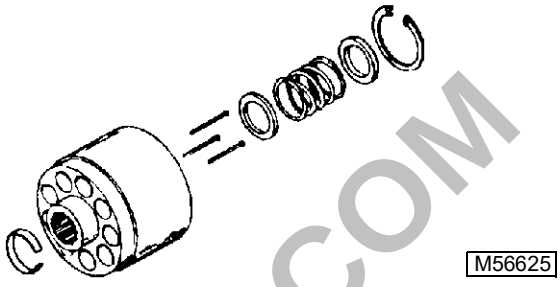
3. Assemble parts in order shown, use plenty of hydraulic fluid to lubricate bearings and O-ring. Ensure camplate has full travel and moves freely.


M56560

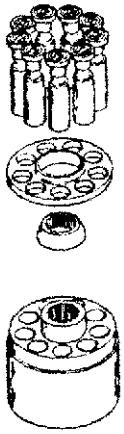
4. Install shaft and shaft seal, use hydraulic fluid liberally to avoid damaging the seal during installation. Ensure seal is positioned below the retaining ring groove.


M56564

5. Install retaining ring with sharp edge of ring facing the outside of the case. The sharp edge can be felt with your finger.


M56625

6. If the piston block assembly was disassembled, complete the following.
7. Compress the pin keeper and install in the spline of the piston block.
8. Install the three pins with the head end to the inside of the block and install in the special grooves of the piston block spline.
9. Install the washer, spring and second washer in the piston block.
10. Compress the spring with the cap screw and washer tool used to compress the spring during disassembly.
11. Install the retaining ring. Ensure the sharp edge of the retaining ring faces away from the spring.


M56559

12. Assemble the rotating assembly as shown.

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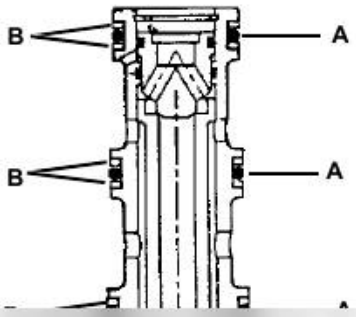
Page

LIFT ARM PIN REPLACEMENT 35
LIFT ARM INSTALLATION 35
LIFT CYLINDER REMOVAL 35

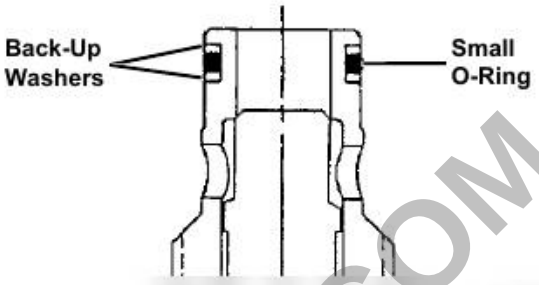
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FORWARD/REVERSE VALVE



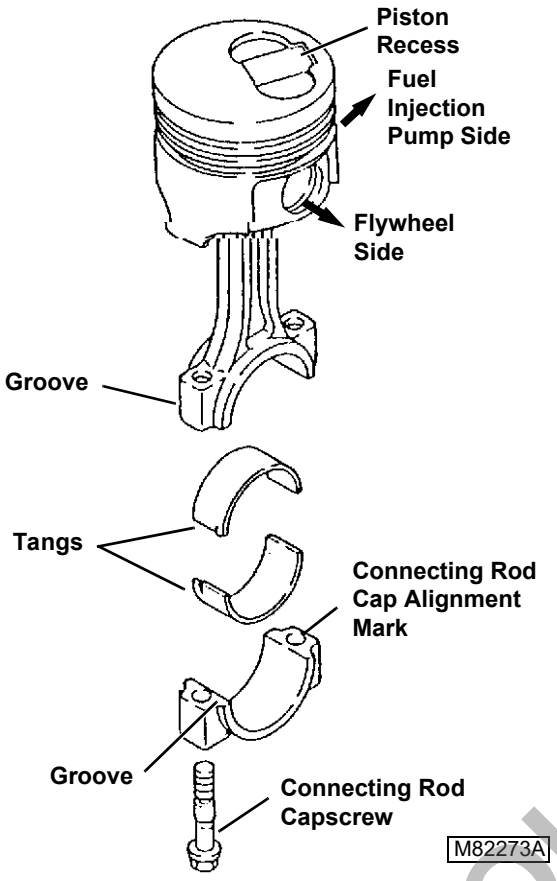
FLOW CONTROL VALVE



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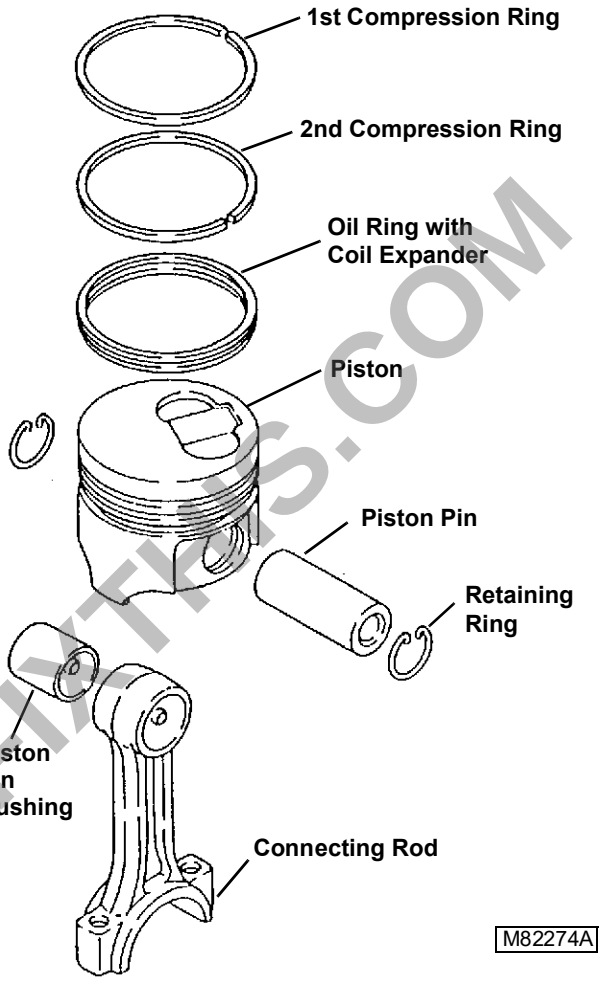


9. Install cylinder head. (See INSTALLATION on page 52.)
10. Install oil pan and strainer tube. (See OIL PAN AND STRAINER REMOVAL/INSTALLATION on page 77.)

PISTON AND CONNECTING ROD DISASSEMBLY

IMPORTANT: Pistons must be installed on the same connecting rod they were removed from.

1. Put a mark on each piston and connecting rod to aid in assembly.



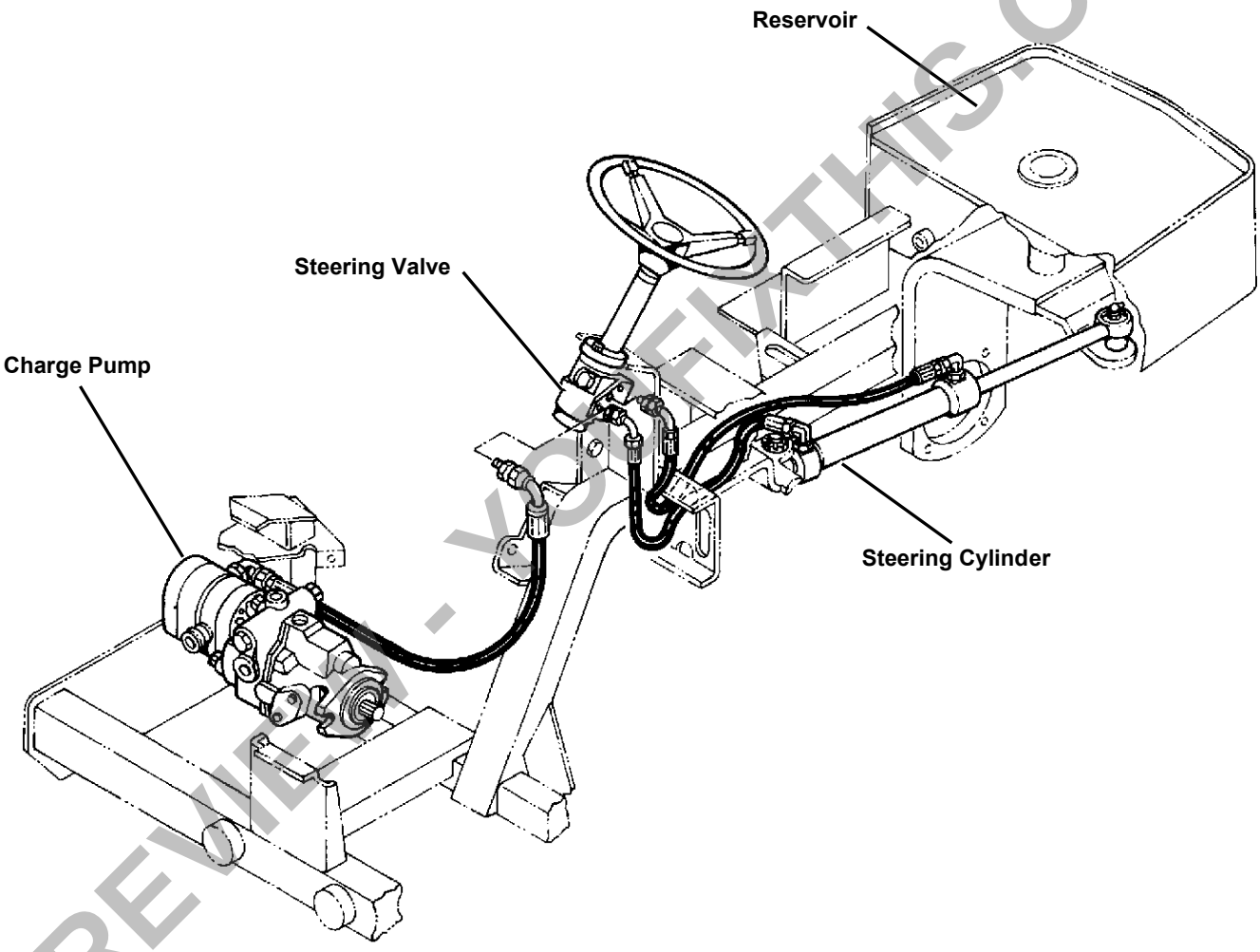
2. Remove piston rings, starting with the first compression ring, by gently spreading them open just enough to clear the outside diameter of the piston. This can be done by hand or with a ring expander.
3. Remove piston pin retaining rings.
4. Remove piston pin. Excessive pressure should not be necessary to remove piston pin.
5. Inspect all parts for wear or damage. Replace as necessary. (See PISTON AND CONNECTING ROD INSPECTION/REPLACEMENT on page 61.)

- Piston pin bushing is press fit in connecting rod. Remove bushing only if replacement is necessary.

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COMPONENT LOCATION

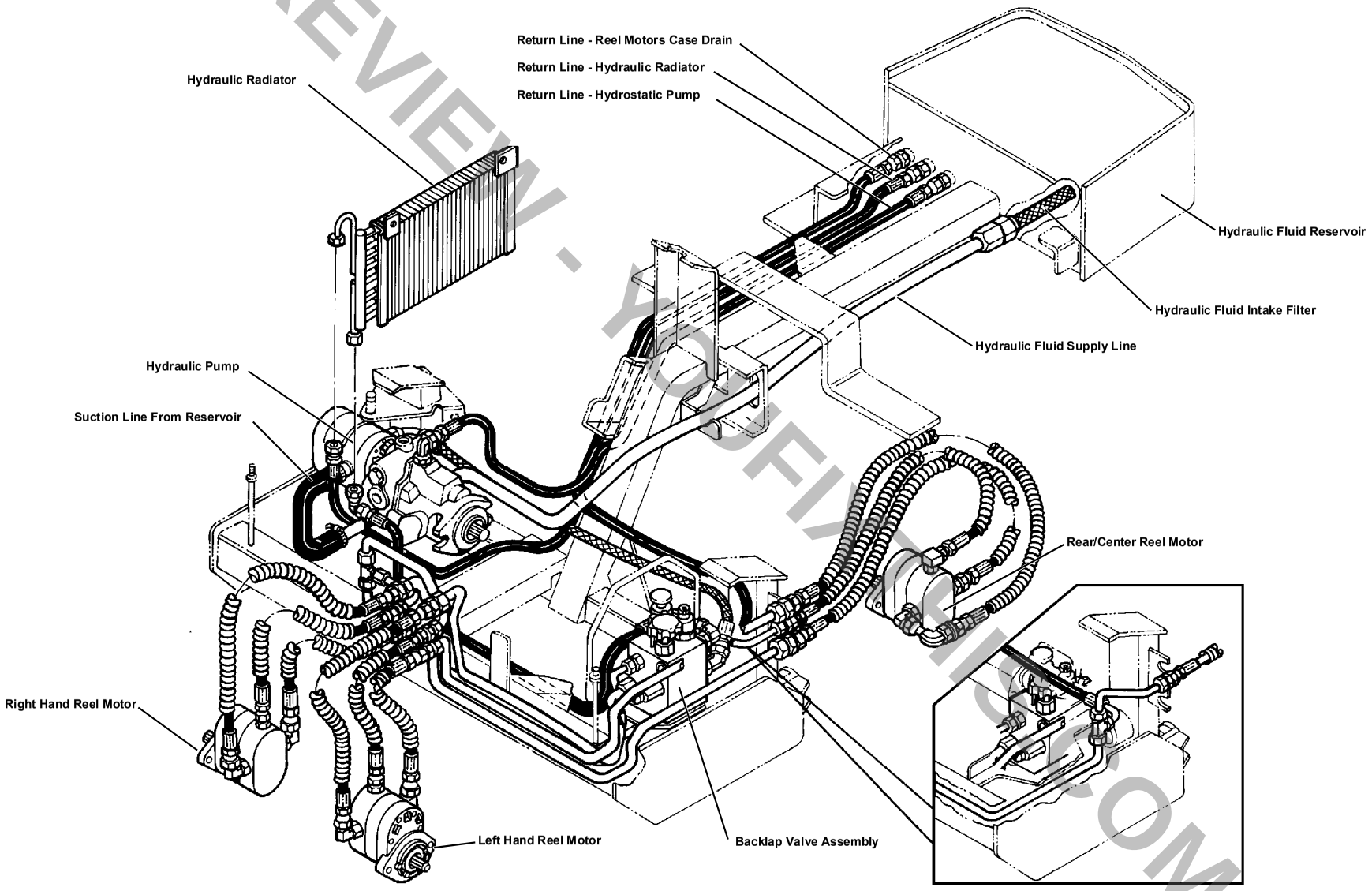


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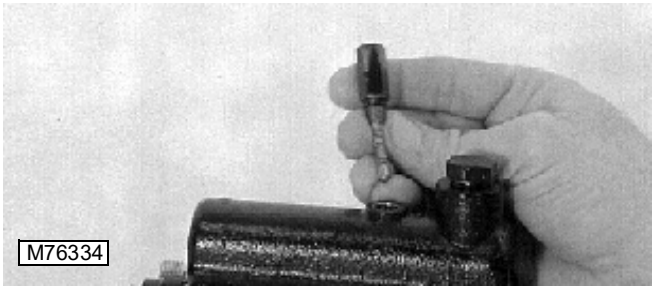
COMPONENT LOCATION



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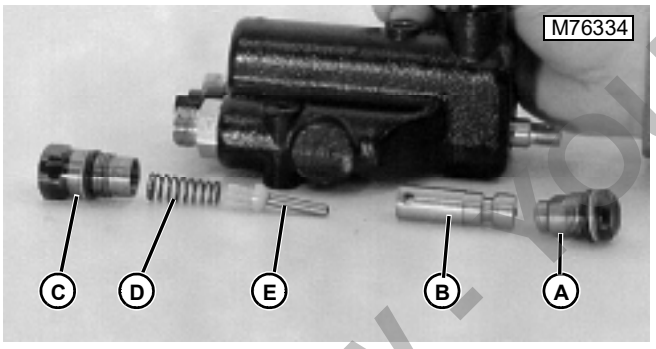
LIFT VALVE DISASSEMBLY

NOTE: Plug all ports and wash valve assembly with a suitable solvent before disassembly.

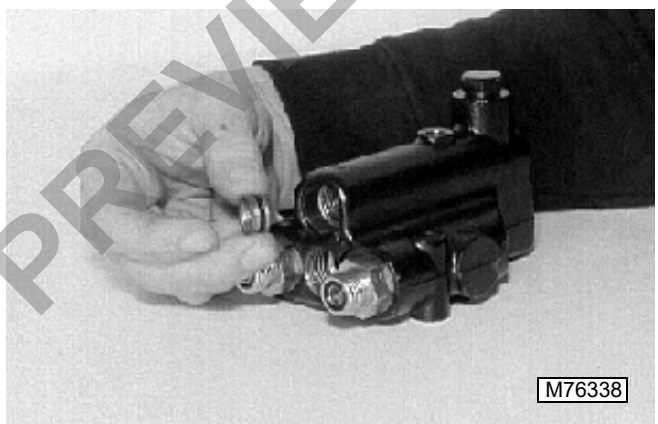


1. Remove detent plunger and spring.

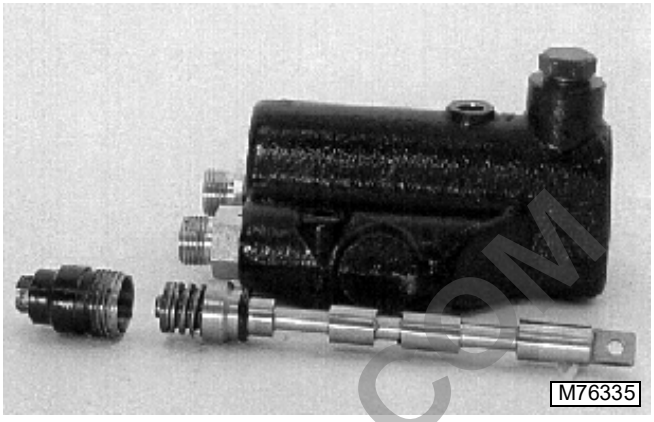
IMPORTANT: Detent Plunger must be removed prior to removal of the spools. Failure to do so will damage detent plunger and/or spool.



2. Remove plug (A) and spool (B) from one end of valve and cap (C), spring (D), and plunger (E) from other end.



3. Remove orifice from top center bore. Push out from back side with brass rod.



4. Remove cap, spool assembly from lower center port.



5. Remove O-ring from lower spool port.

LIFT VALVE INSPECTION

- Clean all parts with a suitable solvent, clean bores with a brush hone and solvent.
- Inspect bores in valve housing for scoring.
- Inspect spools for scoring, fretting and straitness.
- Check all springs for breakage.
- Replace all seals and O-rings.
- If any parts are worn, the valve assembly must be replaced.

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