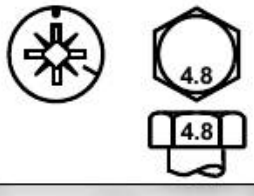
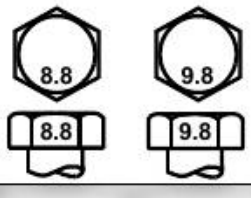
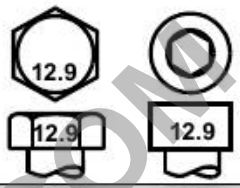
## General Specifications

### Metric Fastener Torque Values

| Property Class and Head Markings | 4.8 | 8.8 | 9.8 | 10.9 | 12.9 |
|---|---|---|---|---|---|
| |  |  | |  |  |

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## Tests and Adjustments

### Throttle Rod Adjustment

**Reason:**

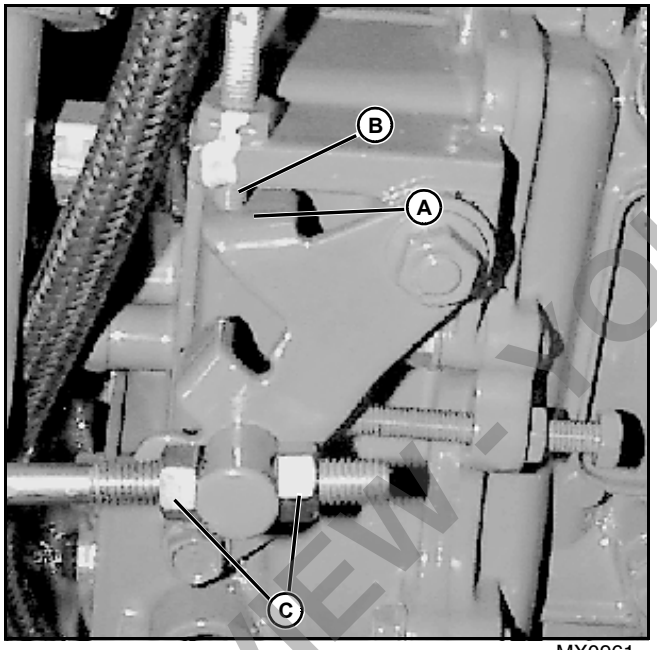
To ensure that throttle linkage, and foot pedal linkage is adjusted correctly, and allows full high idle and slow idle position of governor throttle lever.

**Equipment:**

- Metric Wrenches
- Pliers

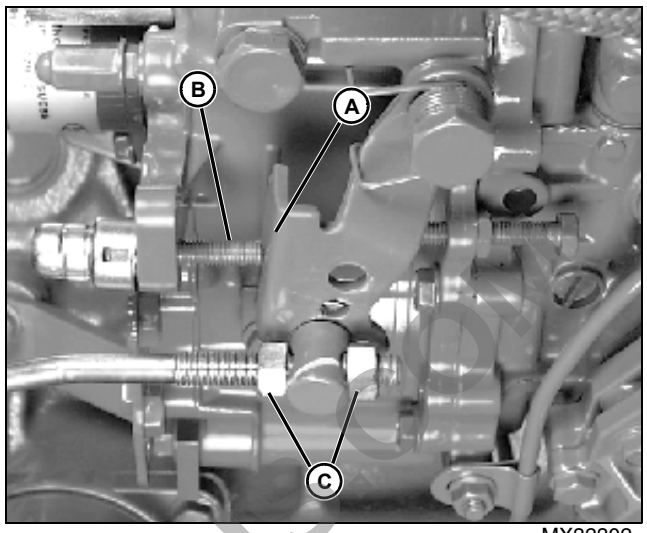
**Procedure:**

1. Park machine on level surface, turn key switch OFF, shift transmission to NEUTRAL, and park brake ON.
2. Move throttle control lever to fast position.




MX0961

**4TNE Engine Shown**




MX32302

**4TNV Engine Shown**

3. Governor lever (A) should be touching high idle limit screw (B).
4. If not, loosen locknuts (C) on throttle rod and adjust nuts until throttle lever is touching the stop and there is no excessive strain on the linkage.

### Cylinder Compression Test

**Reason:**

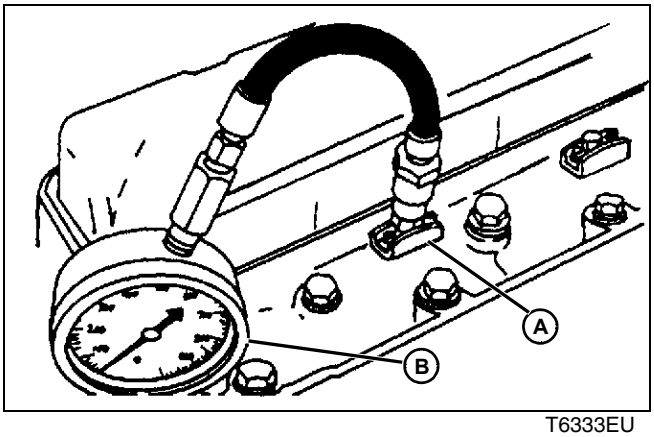
To determine the condition of the pistons, rings, cylinder walls and valves.

**Equipment:**

- JT01682 Compression Gauge Assembly
- JDG560 Adapter

**Procedure:**

1. Remove the injection nozzles.




T6333EU

2. Install the heat protector from end of injector and install JDG560 adapter (A).

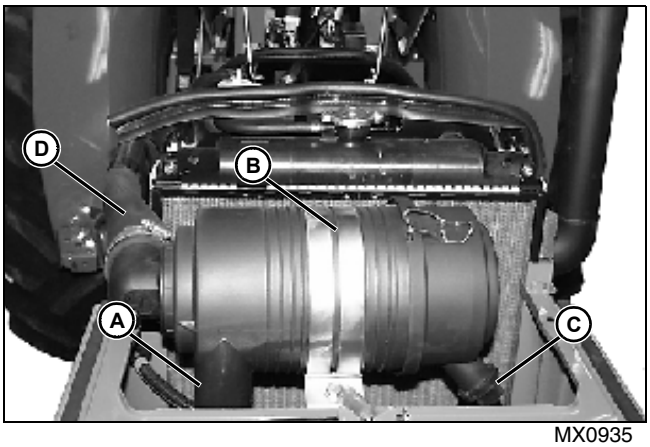
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A fuel level sensor (L) mounted in the fuel tank informs the operator of the fuel level.

**Air Intake System:**




MX0935

Engine intake air enters the inlet hose (A) behind the grille, and flows into the air filter body (B). The air cleaner also has a rubber, one way, unloading valve (C), that ejects heavy dirt particles from the air stream during engine operation before they reach the filters. The operator can squeeze the valve to remove the large particles. The air cleaner elements filter the air, which then flows through hose (D) to the intake manifold.

## Diagnostics

## Engine Troubleshooting

**CAUTION: Avoid Injury! Engine radiator fluid is extremely hot during operation.**

**CAUTION: Avoid Injury! The engine may start to rotate at any time. Keep hands away from all moving parts when testing.**

**Engine System**

### Symptom: Engine Starting Problems

**(1) Engine starts?**

**No -** Battery voltage low - recharge battery.

**No -** Starting motor defective - repair or replace starting motor.

**No -** Alternator defective - repair or replace alternator.

**No -** Open circuit in wiring - repair wiring.

**No -** 4TNV Engines: Fuel pump not operating - check fuses and harness connector.

**No -** Fuel filter clogged - replace fuel filter.

**No -** Clogged or cracked fuel lines - clean or replace fuel lines.

**No -** Fuel volume to injection pump low - check or replace fuel transfer pump.

**No -** Water in fuel - check and repair.

**No -** Improper engine oil viscosity/type - replace engine oil and filter.

**No -** Improper intake or exhaust valve clearance - adjust valve clearance.

**No -** Improper timing between injection pump, intake and exhaust valves - adjust valve clearance. Check valve timing.

**No -** Seized intake/exhaust valve - replace valve and check valve guide.

**No -** Broken or seized piston ring - replace rings and check cylinder.

**No -** Piston ring, piston or cylinder worn - bore or hone cylinder and replace piston.

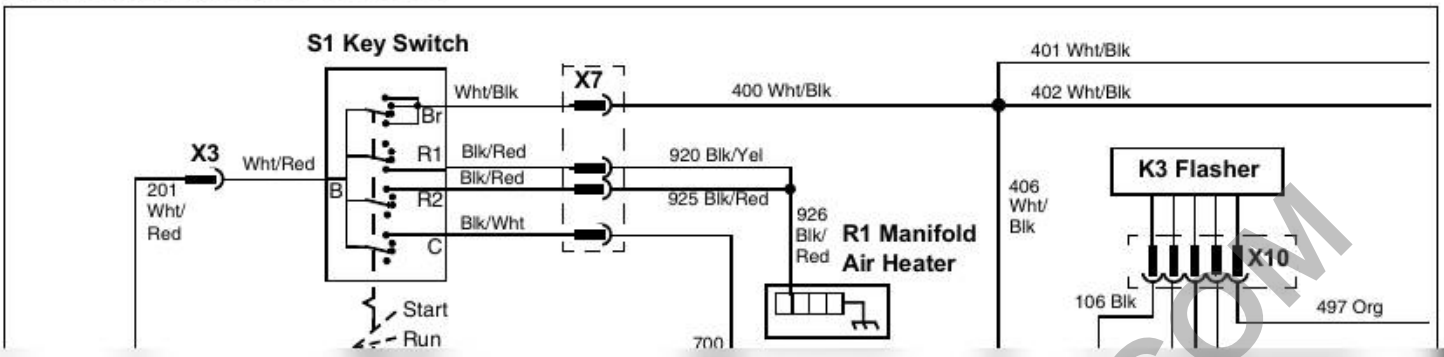
**No -** Crankshaft pin or bearing seized - regrind crank and replace bearings.

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## Main Schematic (SN -590000)



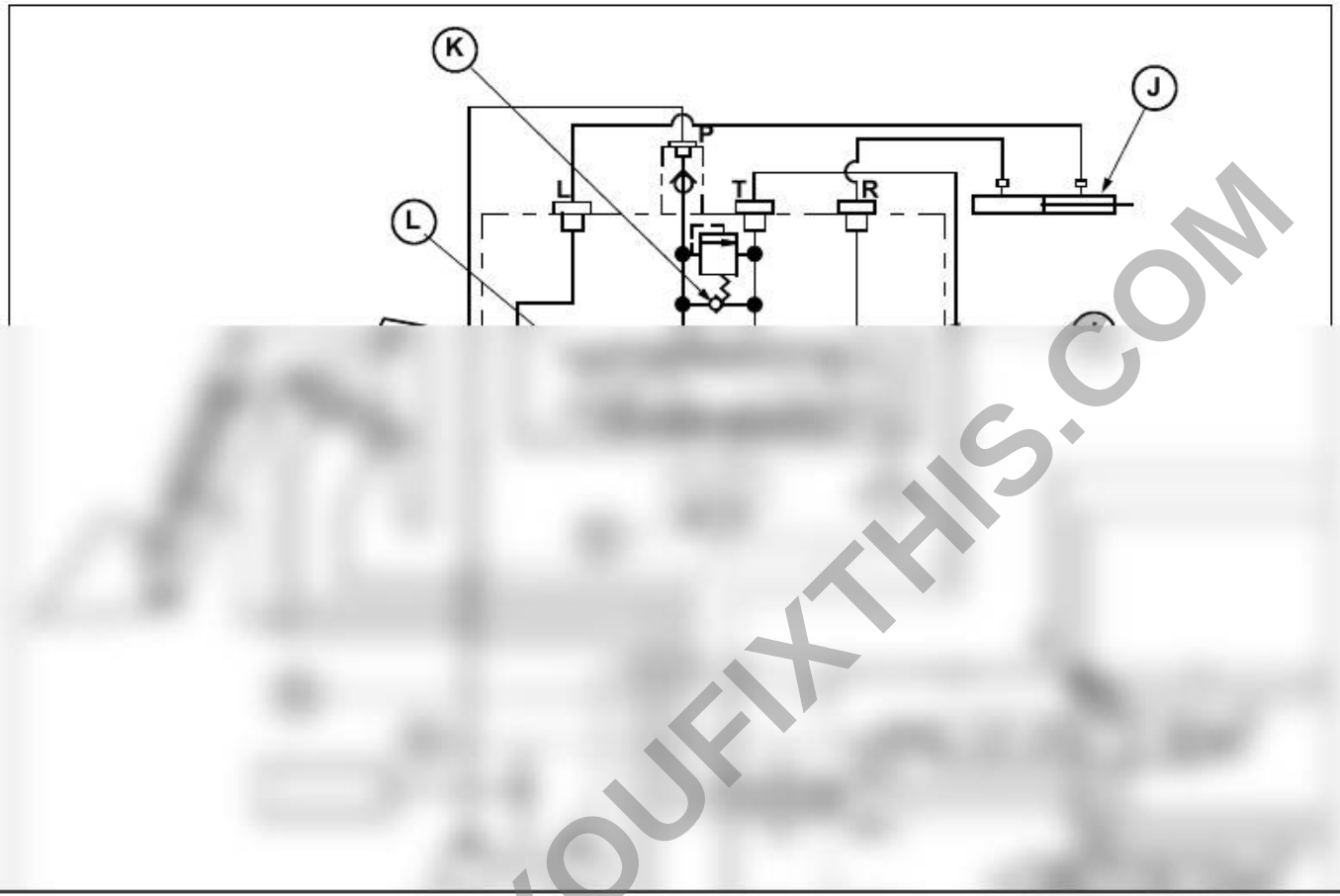

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**Main Hydraulic Schematic**

**Hydraulic Schematic (1 of 2)**




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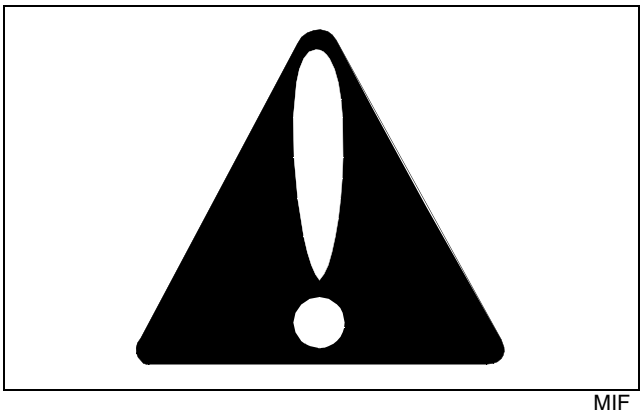
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## Recognize Safety Information



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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.

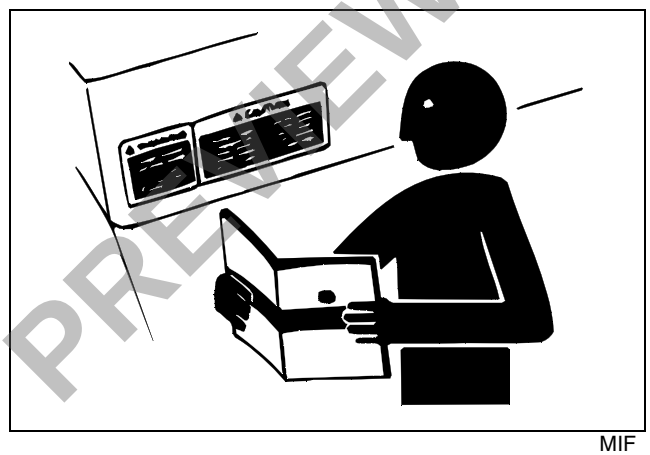
Follow recommended precautions and safe servicing practices.

## 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

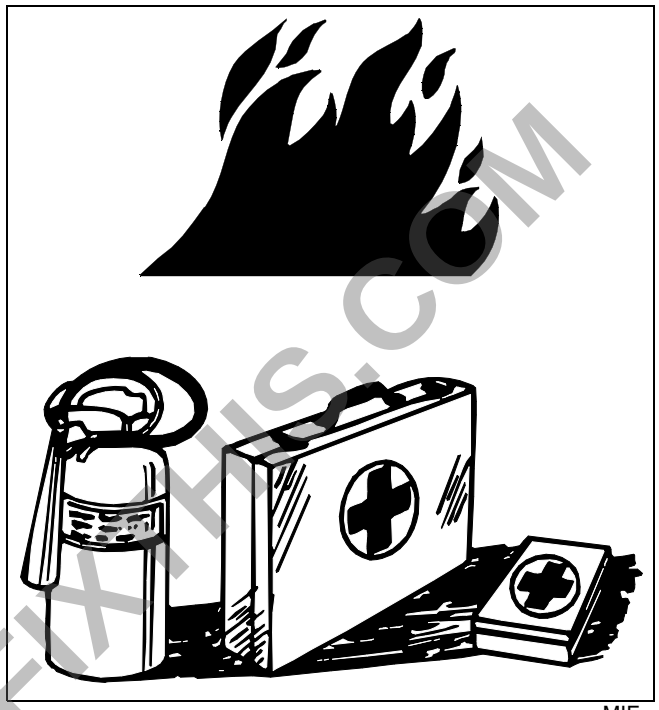


MIF

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



MIF

- 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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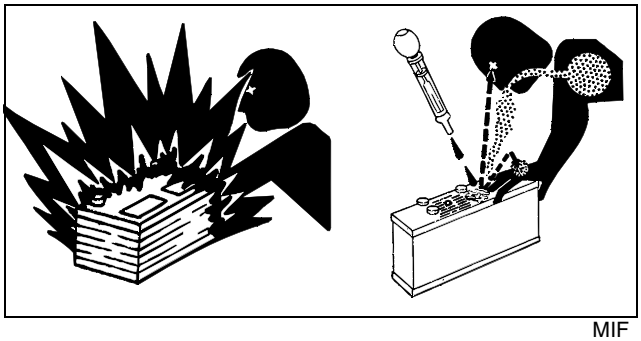
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## Use Care In Handling and Servicing Batteries



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### 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).

### Prevent Acid Burns

- Sulfuric acid in battery electrolyte is poisonous. It is strong enough to burn skin, eat holes in clothing, and cause blindness if splashed into eyes.

**Avoid acid burns by:**

1. Filling batteries in a well-ventilated area.
2. Wearing eye protection and rubber gloves.
3. Avoiding breathing fumes when electrolyte is added.
4. Avoiding spilling or dripping electrolyte.
5. Use proper jump start procedure.

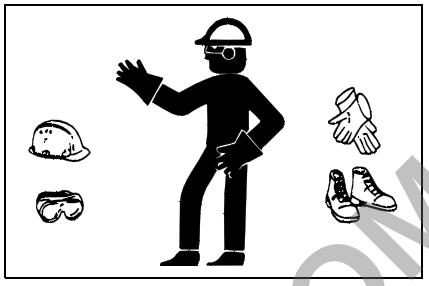
**If you spill acid on yourself:**

1. Flush your skin with water.
2. Apply baking soda or lime to help neutralize the acid.
3. Flush your eyes with water for 10 - 15 minutes.
4. Get medical attention immediately.

**If acid is swallowed:**

1. Drink large amounts of water or milk.
2. Then drink milk of magnesia, beaten eggs, or vegetable oil.
3. Get medical attention immediately.

## Wear Protective Clothing



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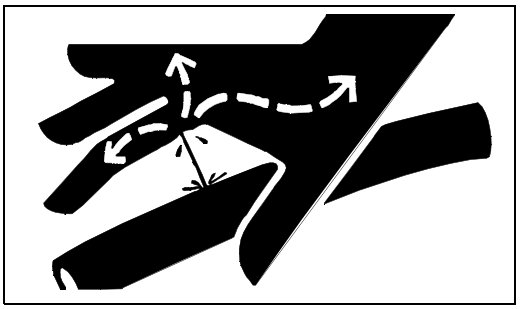
Wear close fitting clothing and safety equipment appropriate to the job.

Prolonged exposure to loud noise can cause impairment or loss of hearing. Wear a suitable hearing protective device such as earmuffs or earplugs to protect against objectionable or uncomfortable loud noises.

Operating equipment safely requires the full attention of the operator. Do not wear radio or music headphones while operating machine.

## Use Care Around High-pressure Fluid Lines

**Avoid High-Pressure Fluids**



MIF

Escaping fluid under pressure can penetrate the skin causing serious injury.

Avoid injury from escaping fluid under pressure by stopping the engine and relieving pressure in the system before disconnecting or connecting 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.

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### Symptom: Engine Starting Problems

**No -** Air entering fuel system - check and repair fuel supply system.

**Yes -** Engine starting procedure ok. Go to next procedure.

### Symptom: Engine Starts But Does Not Continue Running

**(1) Exhaust smoke absent?**

**No -** Go to next step.

**Yes -** 4TNV Engines: Fuel pump not operating - check fuses and harness connector.

**Yes -** Fuel filter clogged - replace fuel filter.

**Yes -** Clogged or cracked fuel lines - clean or replace fuel lines.

**Yes -** Water in fuel - check and repair.

**Yes -** Air entering fuel system - check and repair fuel supply system.

**Yes -** Fuel volume to injection pump low - check or replace fuel transfer pump.

**Yes -** Improper engine oil viscosity/type - replace engine oil and filter.

**Yes -** Improper intake or exhaust valve clearance - adjust valve clearance.

**Yes -** Crankshaft pin or bearing seized - regrind crank and replace bearings.

**Yes -** Piston ring end gaps not correct - stagger piston ring gaps.

**Yes -** Governor not functioning properly - repair or replace governor.

**Yes -** Improper intake or exhaust valve clearance - adjust valve clearance.

**(2) Excess exhaust smoke?**

**Yes -** Clogged air filter - clean or replace air filter.

**Yes -** Seized intake/exhaust valve - replace valve and check valve guide.

**Yes -** Seized intake/exhaust valve - replace valve and check valve guide.

**Yes -** Broken or seized piston ring - replace rings and check cylinder.

**Yes -** Piston ring, piston or cylinder worn - bore or hone cylinder and replace piston.

### Symptom: Low Engine Output

**(1) Exhaust color NORMAL?**

**No -** Go to next step.

**Yes -** Fuel filter clogged - replace fuel filter.

**Yes -** Air entering fuel system - check and repair fuel supply system.

**Yes -** Clogged or cracked fuel lines - clean or replace fuel lines.

**Yes -** Improper intake or exhaust valve clearance - adjust valve clearance.

**Yes -** Compression leakage from valve seat - grind valve seat; regrind valves.

**Yes -** Seized intake/exhaust valve - replace valve and check valve guide.

**Yes -** Leaking cylinder head gasket - replace head gasket.

**Yes -** Crankshaft pin or bearing worn - regrind crank and replace bearings.

**Yes -** Improper engine oil viscosity/type - replace engine oil and filter.

**Yes -** Wrong type of fuel - drain and replace fuel.

**Yes -** Fuel volume to injection pump low - check or replace fuel transfer pump.

**(2) Exhaust color WHITE?**

**No -** Go to next step.

**Yes -** Water in fuel - check and repair.

**Yes -** Poor fuel injection pattern - clean or replace fuel injector nozzles.

**Yes -** Retarded fuel injection pump timing - check and adjust fuel injection pump timing.

**Yes -** Uneven volume of fuel injected - check fuel injector pump and injectors.

**Yes -** Broken or seized piston ring - replace rings and check cylinder.

**Yes -** Piston ring, piston or cylinder worn - bore or hone cylinder and replace piston.

**Yes -** Piston ring end gaps not correct - stagger piston ring gaps.

**Yes -** Piston rings installed incorrectly - install piston rings correctly.

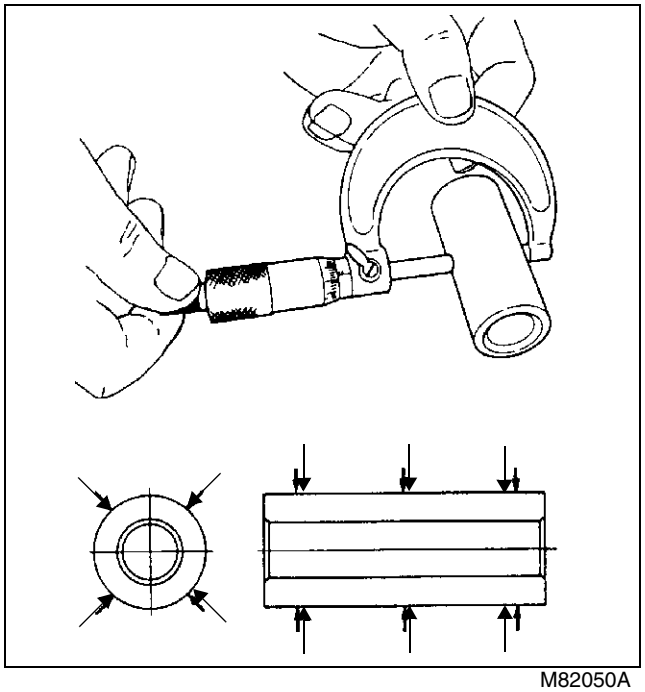
**Yes -** Intake/Exhaust valves worn - check valve guides and stems.

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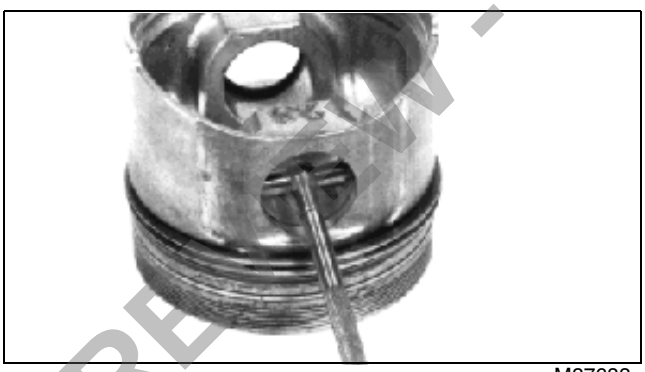
**Piston Pin Diameter:**



M82050A

1. Measure the piston pin diameter. Measure the diameter at six places.
   - Standard piston pin diameter is **25.99 - 26.00 mm (1.023 - 1.024 in.)**
   - Replace the pin if the diameter is less than **25.90 mm (1.02 in.)**.

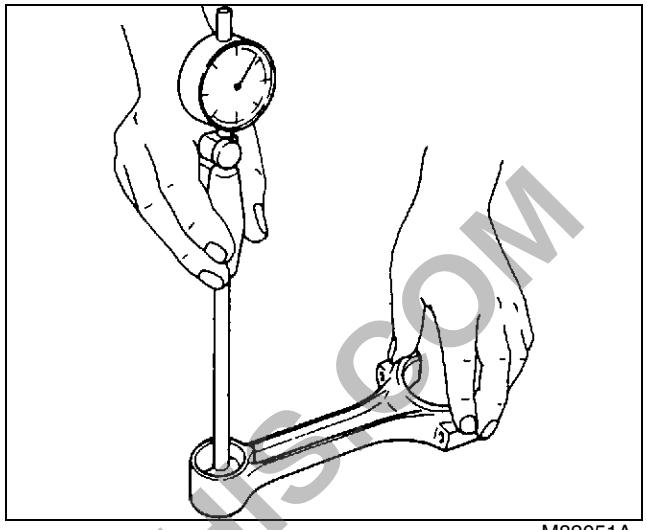
**Piston Pin Bore:**



M37683

1. Measure the piston pin bore diameter in the piston.
   - Standard diameter is **26.00 - 26.01 mm (1.024 - 1.024 in.)**.
   - Standard bore clearance (bore ID minus pin OD) is **0.02 mm (0.001 in.)**
   - If the piston pin bore exceeds **26.02 mm (1.024 in.)**, replace the piston.
   - If the bore clearance exceeds **0.12 mm (0.005 in.)** replace the piston, piston pin or both.

**Piston Pin Bushing:**



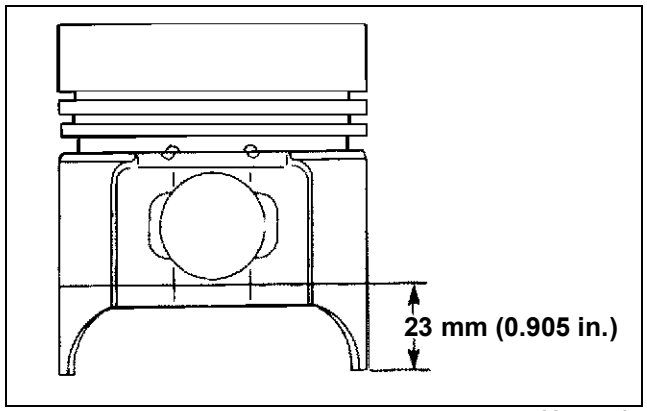
M82051A

1. Measure the piston pin bushing diameter in the connecting rod.
   - If the bushing diameter exceeds **26.03 - 26.04 mm (1.025 - 1.025 in.)**, replace bushing.
   - If the bushing clearance (bushing ID minus pin OD) exceeds **0.03 - 0.05 mm (0.001 - 0.002 in.)** replace the bushing or the piston pin.

***NOTE: The piston pin bushing is press fit. Replace the bushing using a driver set. When installing the bushing, make sure to align the oil hole in the bushing with the hole in the connecting rod.***

**Piston Diameter:**

***NOTE: If the engine has had a previous major overhaul, oversize pistons and rings may have been installed. Pistons and rings are available in 0.25 mm (0.010 in.) oversize.***



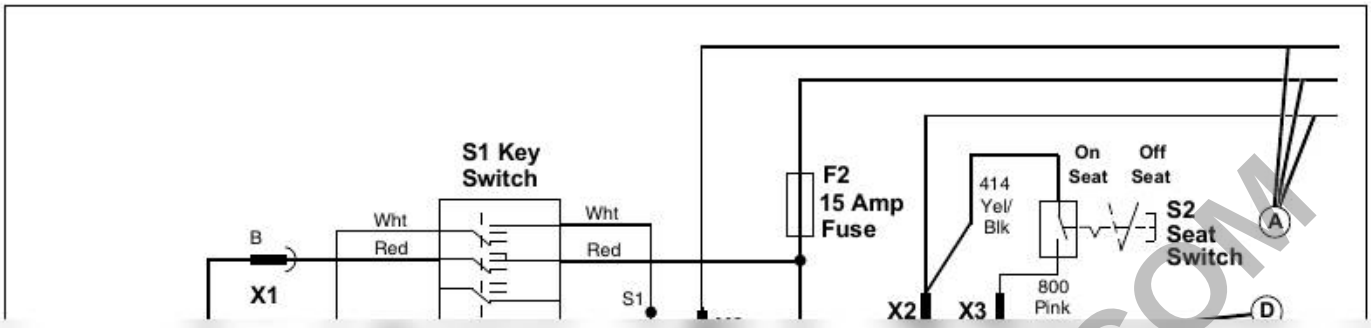

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## Reading Electrical Schematics

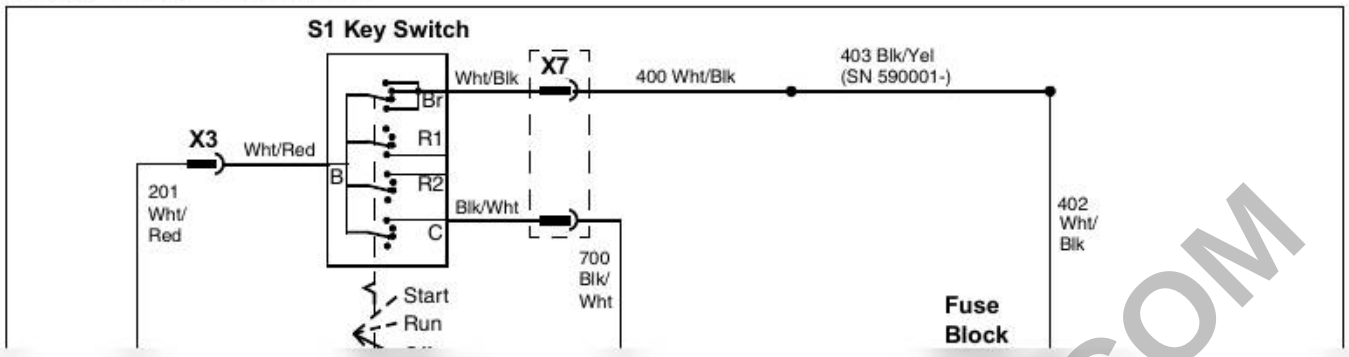



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## Cranking Circuit Schematic



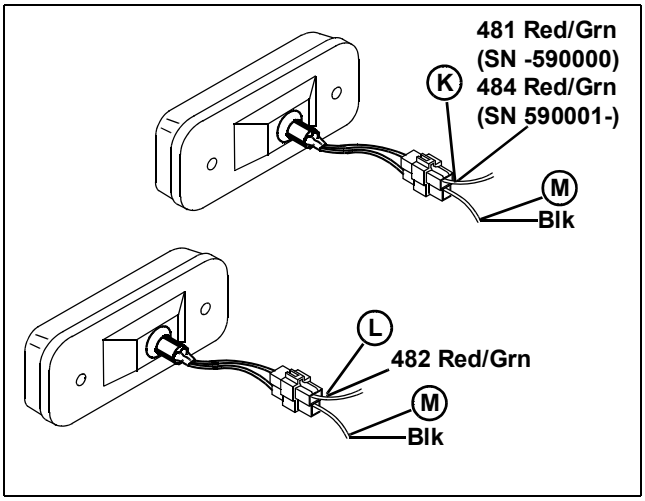

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**System: Lights Circuit**

**No -** Greater than 0.2 volts: Check ground circuit, Blk wires and connections to frame ground.




**(5) Is there battery voltage at the RH tail light 481 (SN -590000) or 484 (SN 590001-) Red/Grn wire (K)?**

**Yes -** Go to next step.

**No -** Check F8 fuse and Red/Grn wires and connections.

**(6) Is there battery voltage at the LH tail light 482 Red/Grn wire (L)?**

**Yes -** Go to next step.

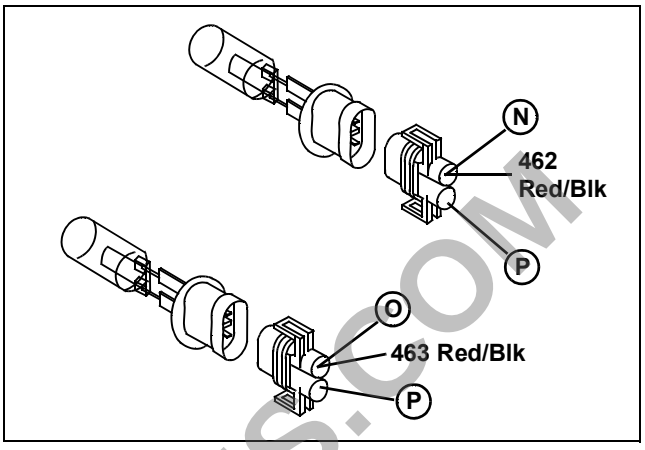
**No -** Check Red/Grn wires and connections.

**(7) Is there 0 to 0.2 volts at the tail light 125 Blk wires (M)?**

**Yes -** Go to next step.

**No -** Greater than 0.2 volts: Check ground circuit, Blk wires and connections to frame ground.

**System: Lights Circuit**




**(8) Is there battery voltage at the RH flood light 462 Red/Blk wire (N)?**

**Yes -** Go to next step.

**No -** Check F6 fuse and Red/Blk wires and connections

**(9) Is there battery voltage at the LH flood light 463 Red/Blk wire (O)?**

**Yes -** Go to next step.

**No -** Check Red/Blk wires and connections.

**(10) Is there 0 to 0.2 volts at the flood light 131 and 132 Blk wires (P)?**

**Yes -** Go to next step.

**No -** Greater than 0.2 volts: Check ground circuit, Blk wires and connections to frame ground.

**Test Conditions:**

- Park brake ENGAGED.
- Key switch in RUN position, engine OFF.
- Transmission in NEUTRAL.
- PTO DISENGAGED.
- Light switch in ROAD position.

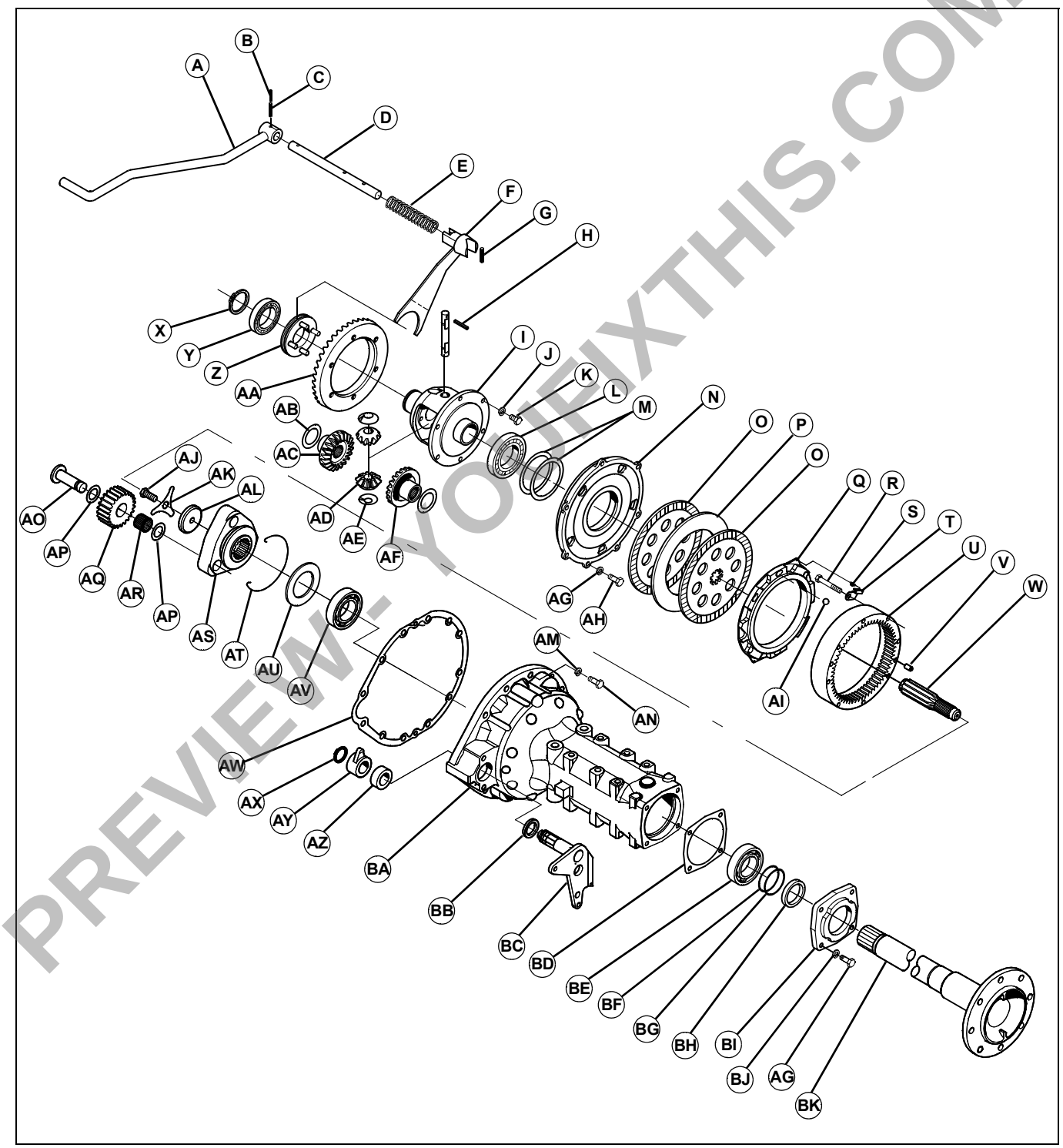
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T - Splined Gear
U - Gear
V - Bushing
W - Splined Gear
X - Gear, 53T
Y - Bushing
Z - Washer, Oil
AA- Bearing
AB- Pinion Shaft

## Differential and Rear Axle

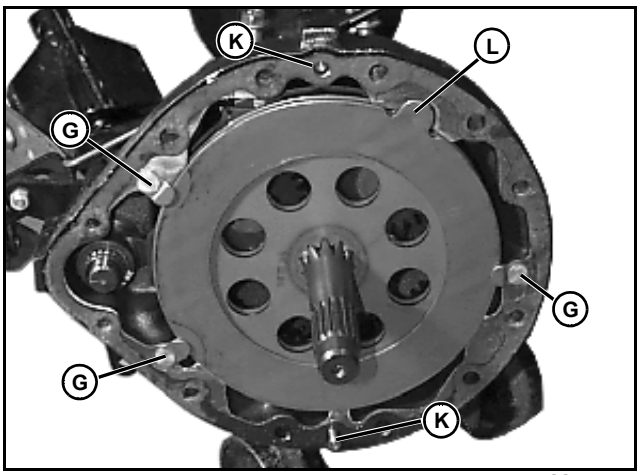



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M89582

4. Align the tabs (L) on the brake discs with the corresponding slot in the rear axle housing. Rotate the lock tabs (G) to retain the brake plates.

5. Make sure the alignment pins (K) are installed in either the transmission housing or the rear axle housing.

6. Align the right side final drive with the right side of the transmission housing. Rotate the wheel mounting flange on the final drive to align the splines in the pinion with the splines in the differential carrier.

7. Install the final drive to the transmission housing.

8. Secure using ten cap screws M12 with lock washers, and two cap screws M10 with lock washers.

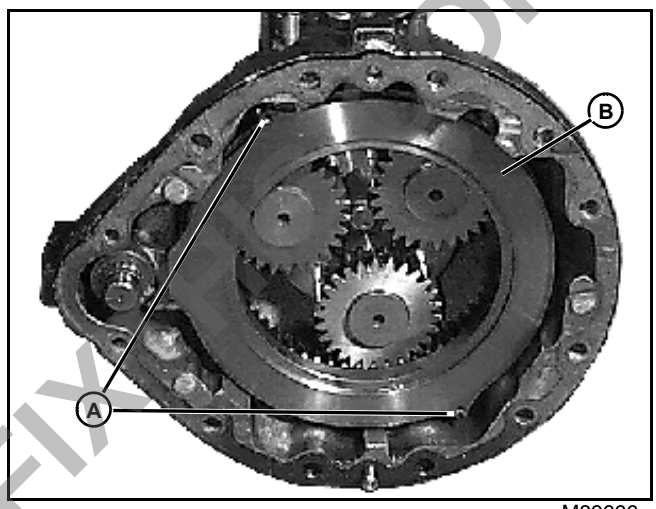
9. Tighten the M12 cap screws to 78 - 98 N•m (58 - 72 lb-ft).

10.Tighten the nuts to 44 - 59 N•m (33 - 43 lb-ft).

## Final Drive Disassembly, Inspection and Assembly

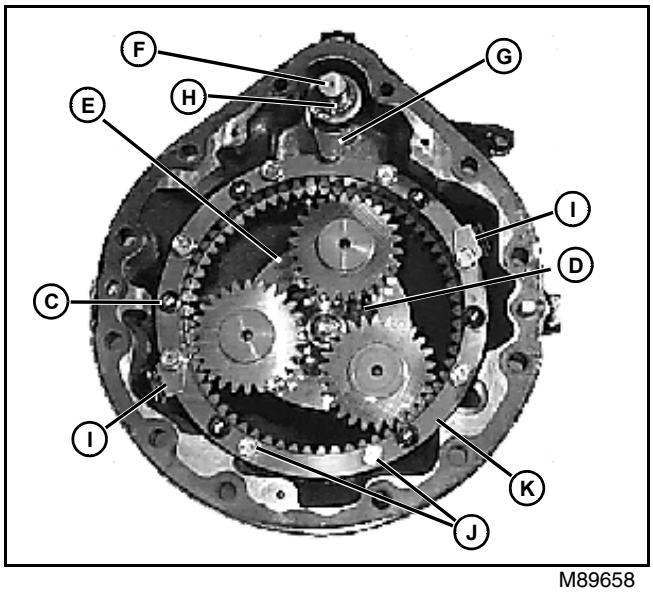
***NOTE: Left side final drive is shown in the following story. Right side disassembly, inspection and assembly is the same.***

1. Remove the brake discs, friction plates, and pinion shaft from the rear axle housing. See “Final Drive Removal and Installation” on page 246.



M89666

2. Remove the springs (A) that retain the brake actuator (B) to the rear axle housing. Remove the actuator.



M89658

3. Remove six balls (C) from the internal gear.

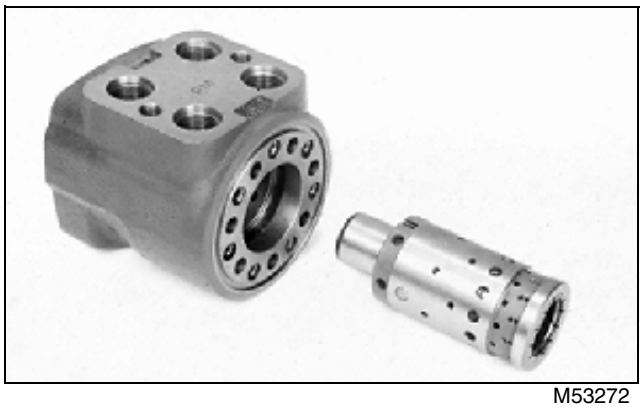
4. Remove the lock plate (D) from the bolt in the center of the planetary pinion assembly (E).

5. Remove the bolt securing the planetary pinion assembly to the drive axle. Remove the planetary pinion assembly.

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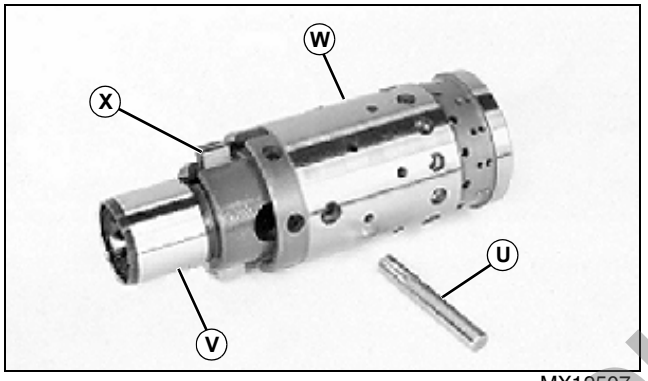


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M53272

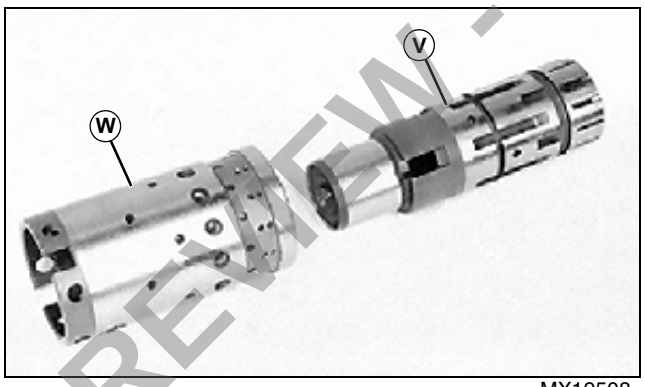
12.Rotate spool and sleeve assembly to remove from bottom of housing.




MX19507

13.Remove pin (U).

14.Push spool (V) forward in sleeve (W) and remove six centering springs (X).




MX19508

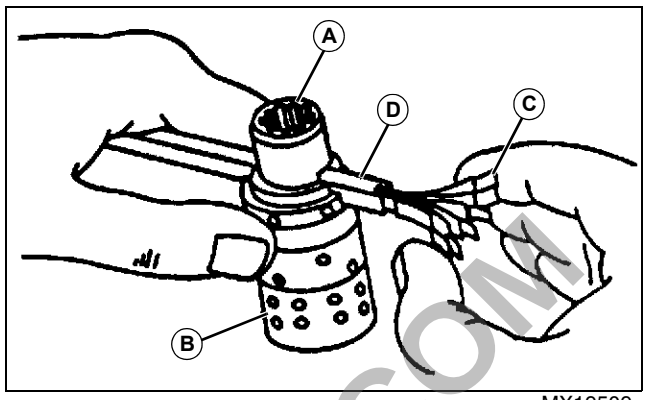
15.Push spool (V) back through sleeve (W) to remove.

16.Inspect parts for excessive wear or damage. If necessary, replace steering valve.

**Assembly:**

***NOTE: A seal kit is available for steering valve repair.***

1. Apply clean transmission/hydraulic oil to all internal parts.

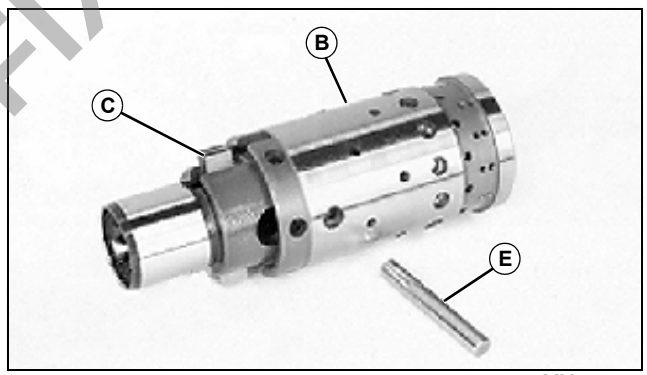



MX19509

2. Assemble spool (A) and sleeve (B) with six centering springs (C) slots aligned. Check that spool rotates smoothly in sleeve.

3. Insert KML10018-3 Spring Installation Tool (D) through spring slot. Install one end of spring set extended edges down and arched centers together, into tool.

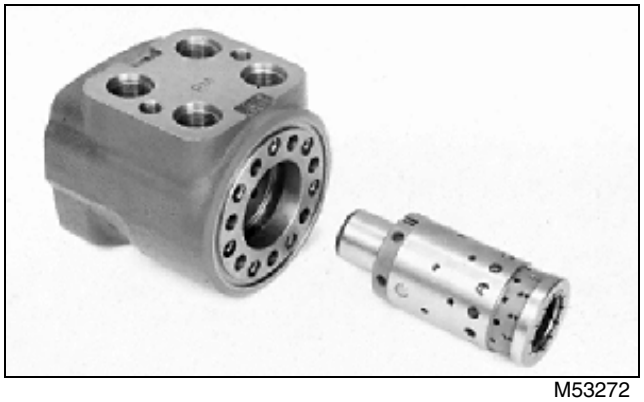
4. Compress spring set and push into spring slot while withdrawing tool.




MX19507

5. Install spring set (C) flush with outer surface of sleeve (B).

6. Push spool into sleeve with spring ends in locating slots and Install pin (E).



M53272

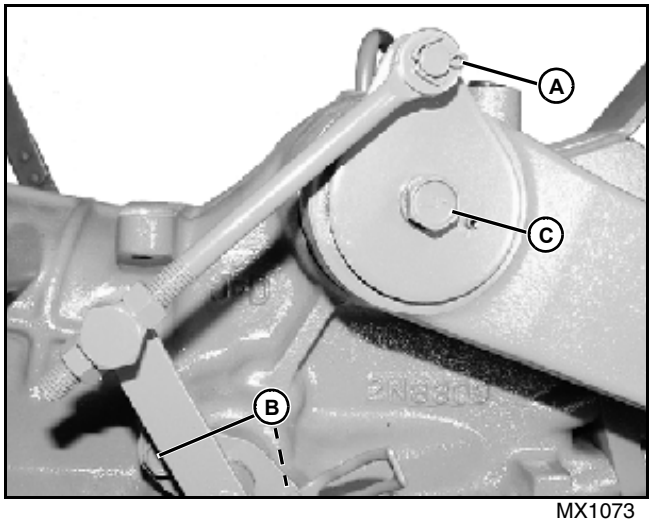
7. Rotate spool and sleeve assembly while installing into housing.



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shaft, and install left side lift arm onto shaft.




MX1073

13.Install cam plate.

14.Install large washer, lock washer, and cap screw (C). Tighten cap screw to 68 N•m (50 lb-ft).

15.Attach adjusting link rod and retain with washer and cotter pin (A).

16.Tighten cap screws (B) on locking plate.

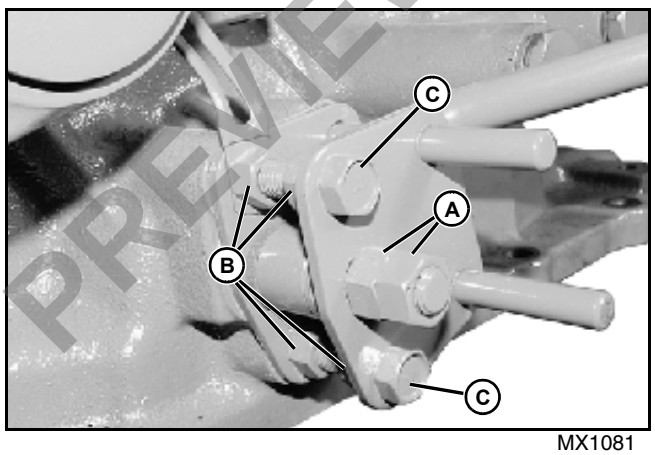
***NOTE: Whenever the draft mechanism has been disturbed, be sure to perform Rockshaft Position Feedback Adjustment.***

**Specifications:**

**Variance Between Lift Arms (Maximum) . . . . . 5°**

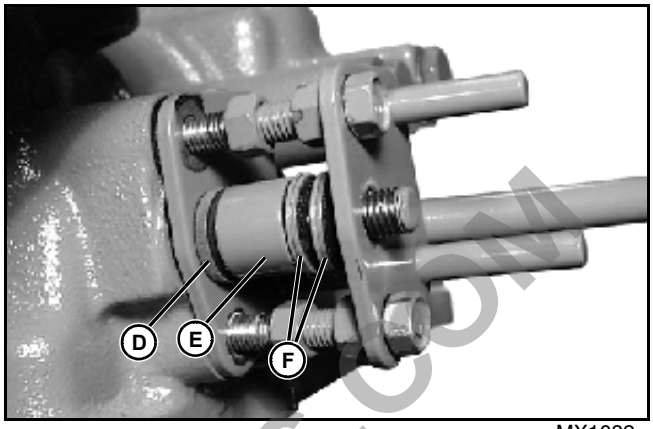
## Lift Control Lever

**Removal:**




MX1081

1. Remove two nuts (A) on control shaft.
2. Loosen four jam nuts (B).
3. Loosen two cap screws (C) until they are free of the housing.



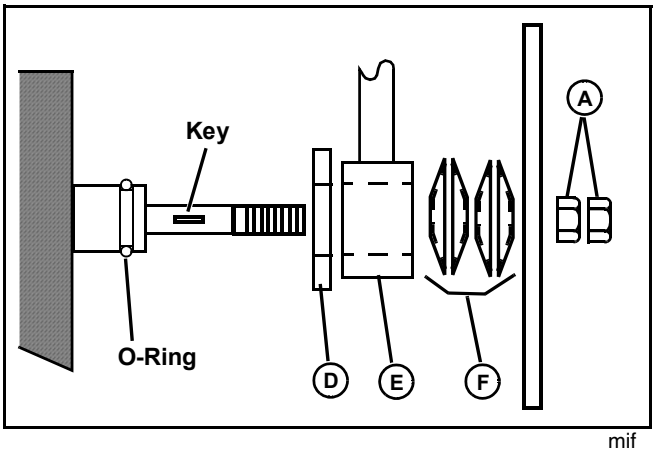

MX1082

4. Remove outer plate as an assembly.
5. Remove friction washer (D), lift control lever (E), and four belleville washers (F).
6. Remove key from control shaft. Inspect friction washer for excessive wear. Replace if necessary.

**Installation:**

***NOTE: When assembling, DO NOT lubricate friction washers or control lever friction surfaces.***

**IMPORTANT: Avoid damage! Make sure that Belleville washers are correctly installed with cupped sides of each pair of washers facing each other.**




mif

1. Replace O-ring as necessary.
2. Install friction washer (D).
3. Install key, lift control lever (E), and four belleville washers (F) onto control shaft.
4. Install outer plate, two cap screws and two jam nuts as an assembly.
5. Install two inner jam nuts onto cap screws.



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