Manual Description

This technical manual is written for an experienced technician and contains sections that are specifically for this product. It is a part of a total product support program.

The manual is organized so that all the information on a particular system is kept together. The order of grouping is as follows:

- Table of Contents
- Specifications and Information
- Identification Numbers
- Tools and Materials
- Component Location
- Schematics and Harnesses
- Theory of Operation
- Operation and Diagnostics
- Diagnostics
- Tests and Adjustments
- Repair
- Other

NOTE: Depending on the particular section or system being covered, not all of the above groups may be used.

The bleed tabs for the pages of each section will align with the sections listed on this page. Page numbering is consecutive from the beginning of the Safety section through the last section.

We appreciate your input on this manual. If you find any errors or want to comment on the layout of the manual please contact us.

Safety
Specifications and Information
Engine - Gasoline
Engine - Diesel
Electrical
Power Train
Hydraulics
Steering
Brakes
Miscellaneous

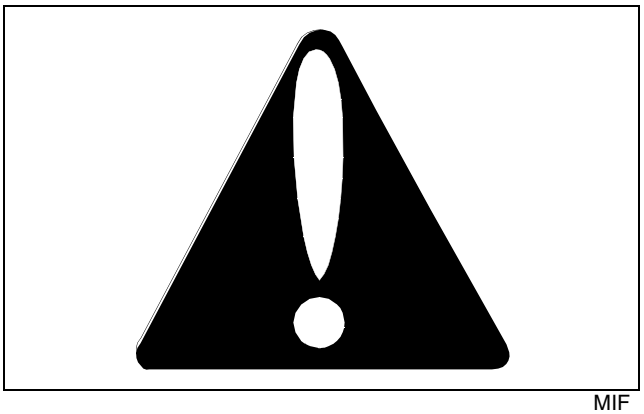
All information, illustrations and specifications in this manual are based on the latest information at the time of publication. The right is reserved to make changes at any time without notice.

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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.

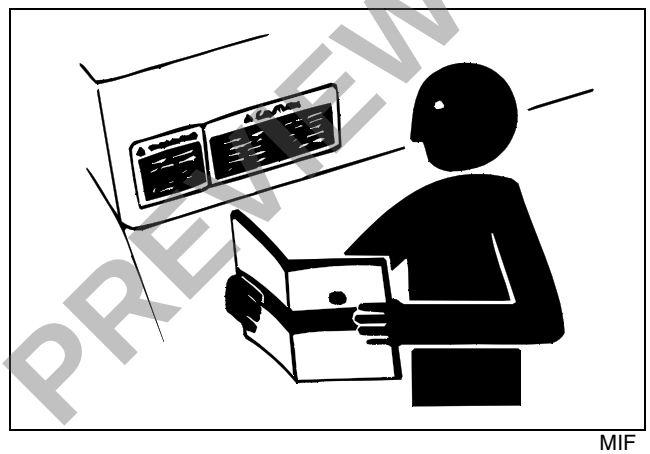
Follow recommended precautions and safe servicing practices.

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

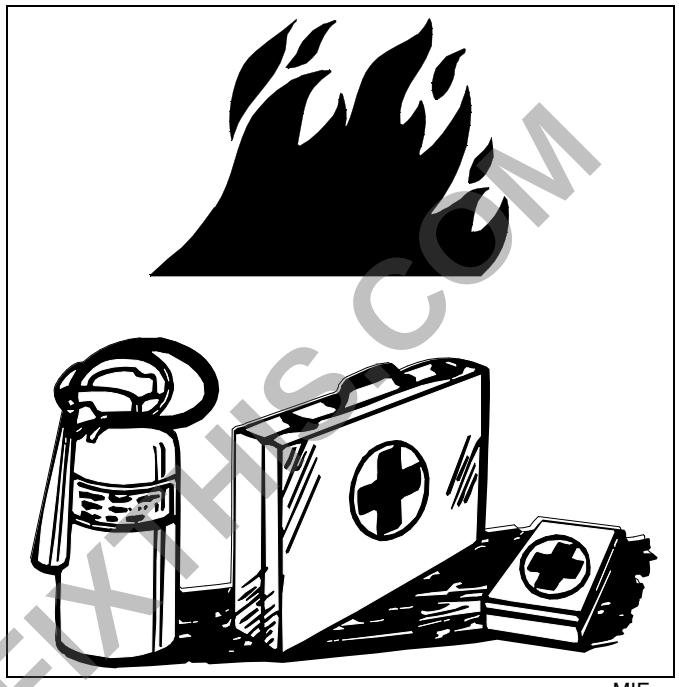


MIF

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



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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.

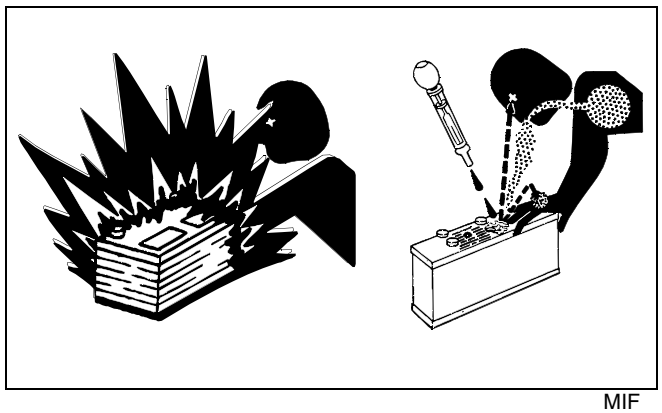
Keep a first aid kit and fire extinguisher handy.

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

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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:

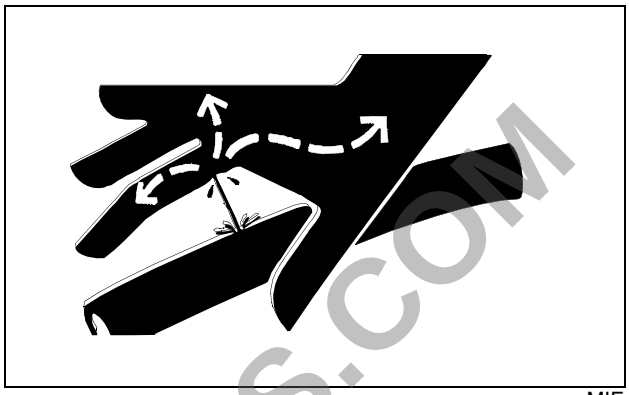
1. Flush your skin with water.
2. Apply baking soda or lime to help neutralize the acid.
3. Flush your eyes with water for 10-15 minutes.
4. Get medical attention immediately.

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.

Use Care Around High-Pressure Fluid Lines

Avoid High-Pressure Fluids



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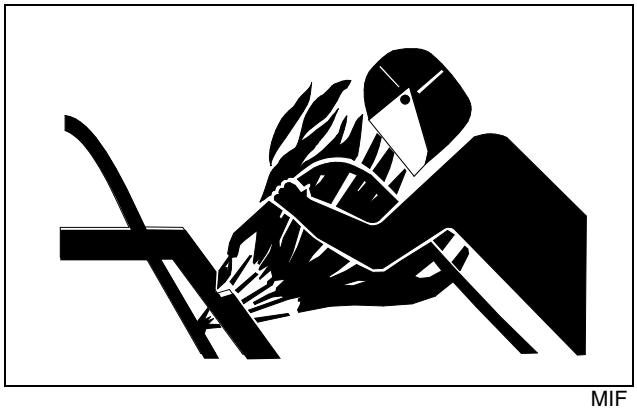
Escaping fluid under pressure can penetrate the skin causing serious injury.

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.

Avoid Heating Near Pressurized Fluid Lines



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Flammable spray can be generated by heating near pressurized fluid lines, resulting in severe burns to yourself and bystanders. Do not heat by welding, soldering, or using a torch near pressurized fluid lines or other flammable materials. Pressurized lines can be accidentally cut when heat goes beyond the immediate flame area.

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Inspect Carburetor

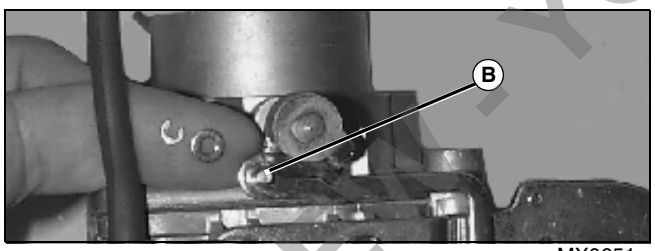
CAUTION: Avoid injury! Gasoline is extremely flammable. DO NOT SMOKE. Always work in a well ventilated area away from open flame or spark producing equipment; including equipment that utilizes pilot lights.

CAUTION: Avoid injury! DO NOT attempt to disassemble or adjust the engine CARB/EPA Certified Emissions Carburetor unless you are a factory trained technician with authorization to service CARB/EPA Certified Emissions Carburetors.

Procedure

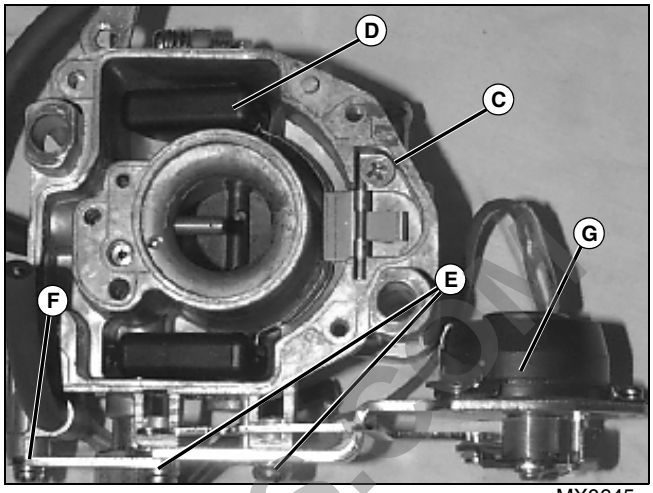


MX0642A



MX0651

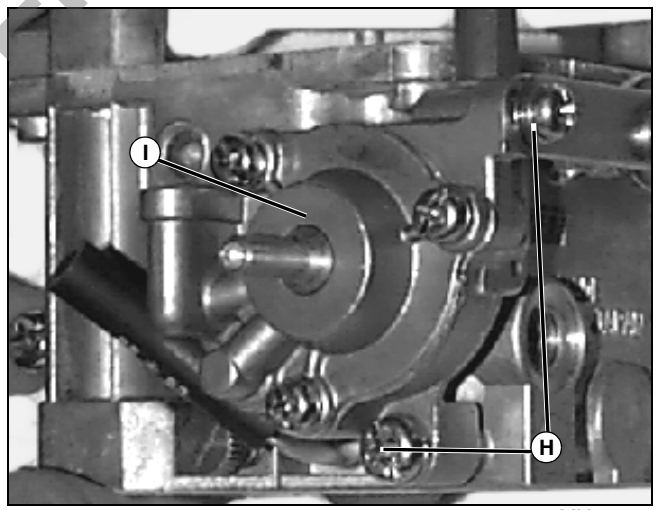
1. Carburetor with Electric Choke: Disconnect choke pull off linkage (A), and disconnect link from choke (B).
2. Remove four screws and lift off top of carburetor.



MX0645

Picture Note: Carburetor with Electric Choke Shown

3. Remove screw (C) and lift out float and inlet needle (D).
4. Remove screws (E), loosen screw (F).
5. Carburetor with Electric Choke: Remove choke bi-metal housing (G).



MX0650

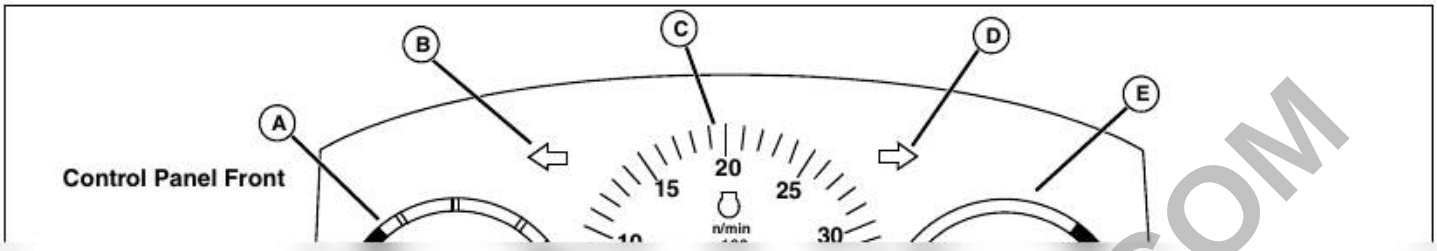
6. Remove screws (H), and accelerator pump (I).

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Component Location

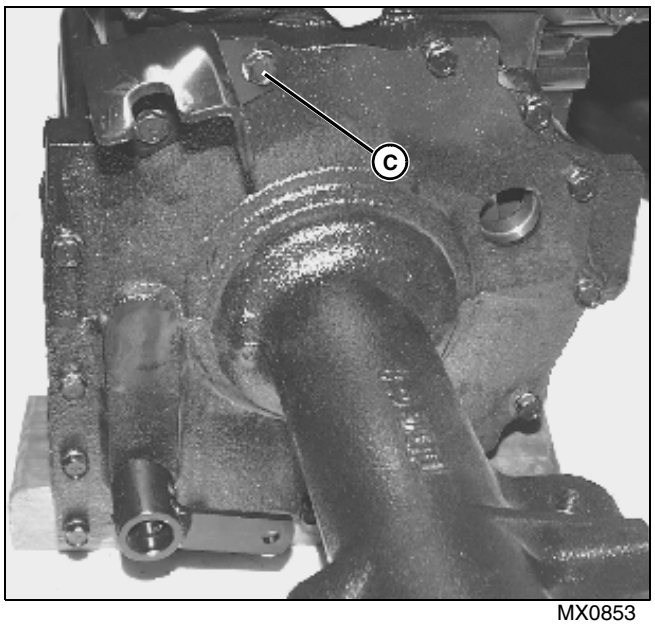
Component Location - Instrument Panel



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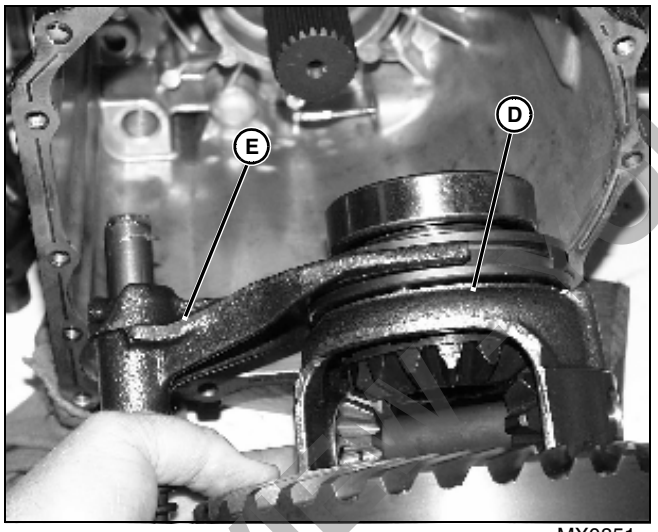
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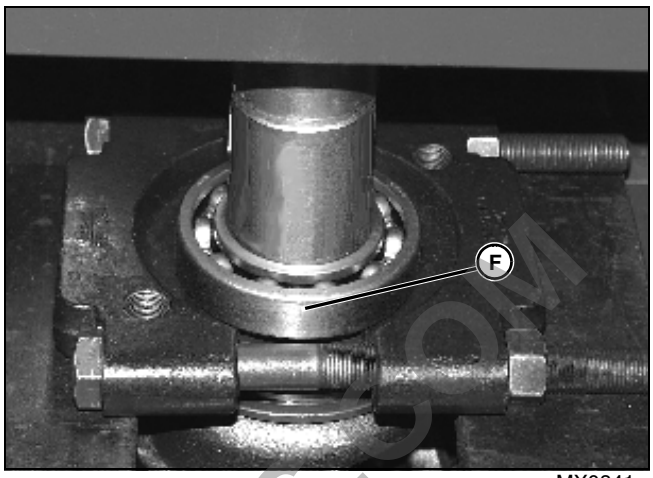
MX0853

2. Remove 14 cap screws (C) securing left axle housing to transaxle case and remove axle housing.



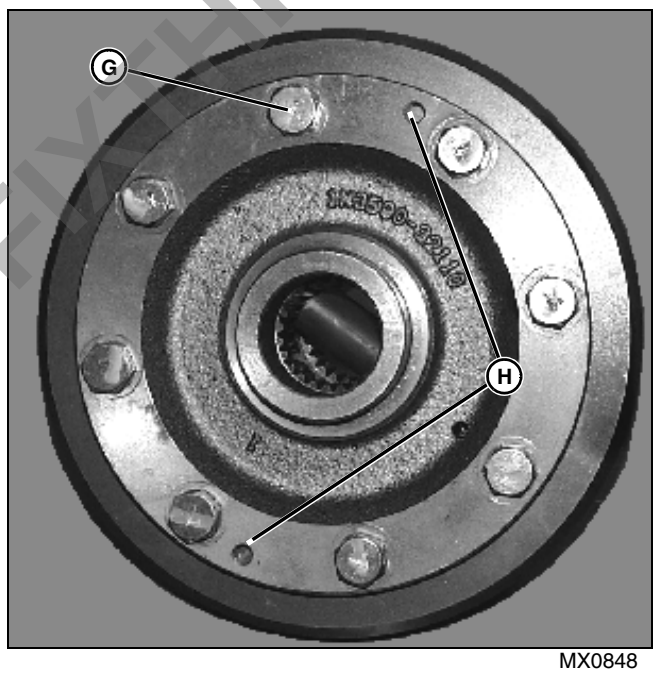
MX0851

3. Remove differential carrier (D) and differential lock shifter (E) from housing as an assembly.



MX0841

4. Press bearing (F) off of each end of differential carrier.



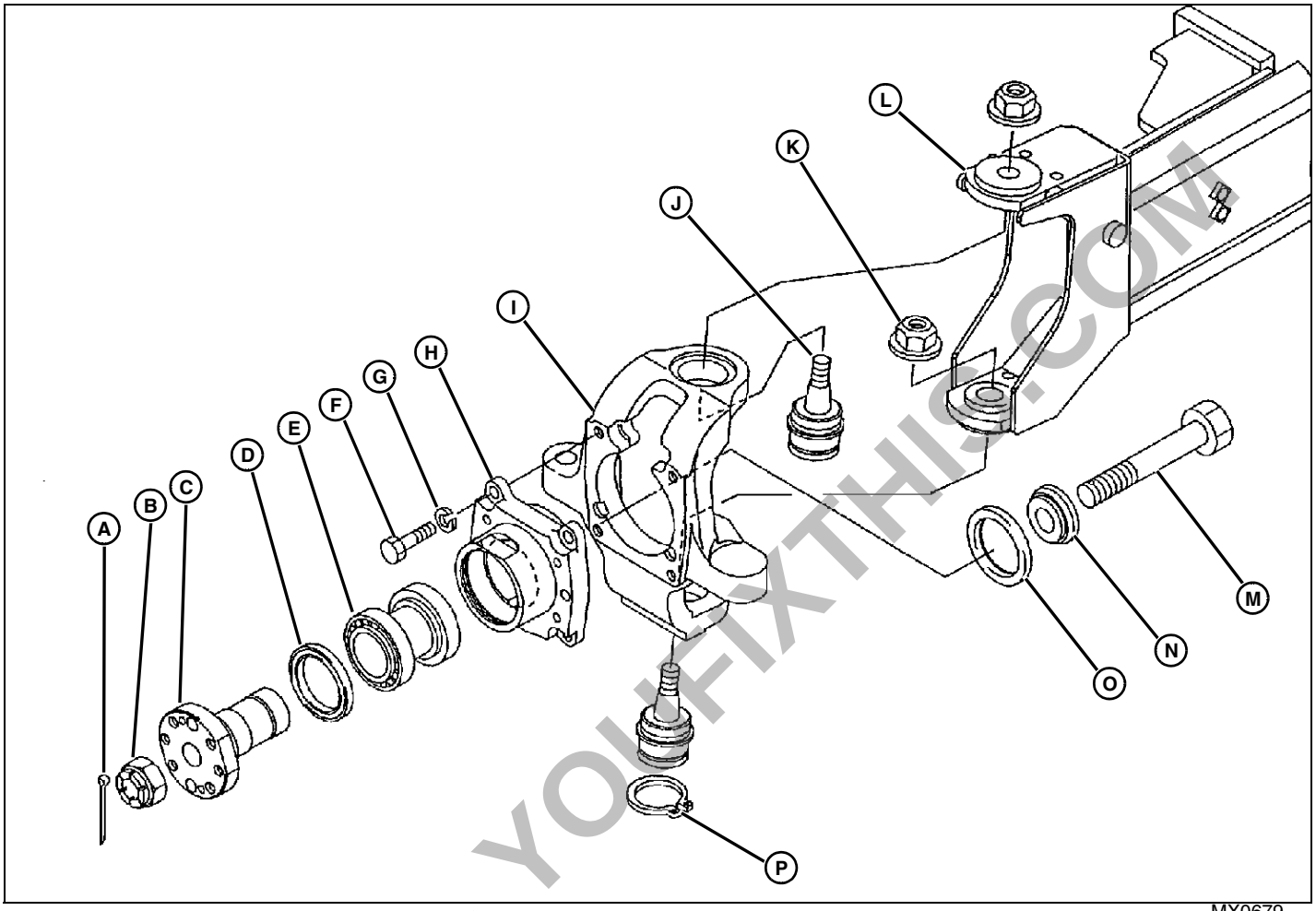
MX0848

5. Remove eight cap screws (G) securing ring gear to carrier and remove ring gear. If ring gear is tight on the carrier, install two M8 x 1.25 cap screws in threaded holes (H) and alternately tighten to push ring gear off of carrier.

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2-WD Axle Component Location



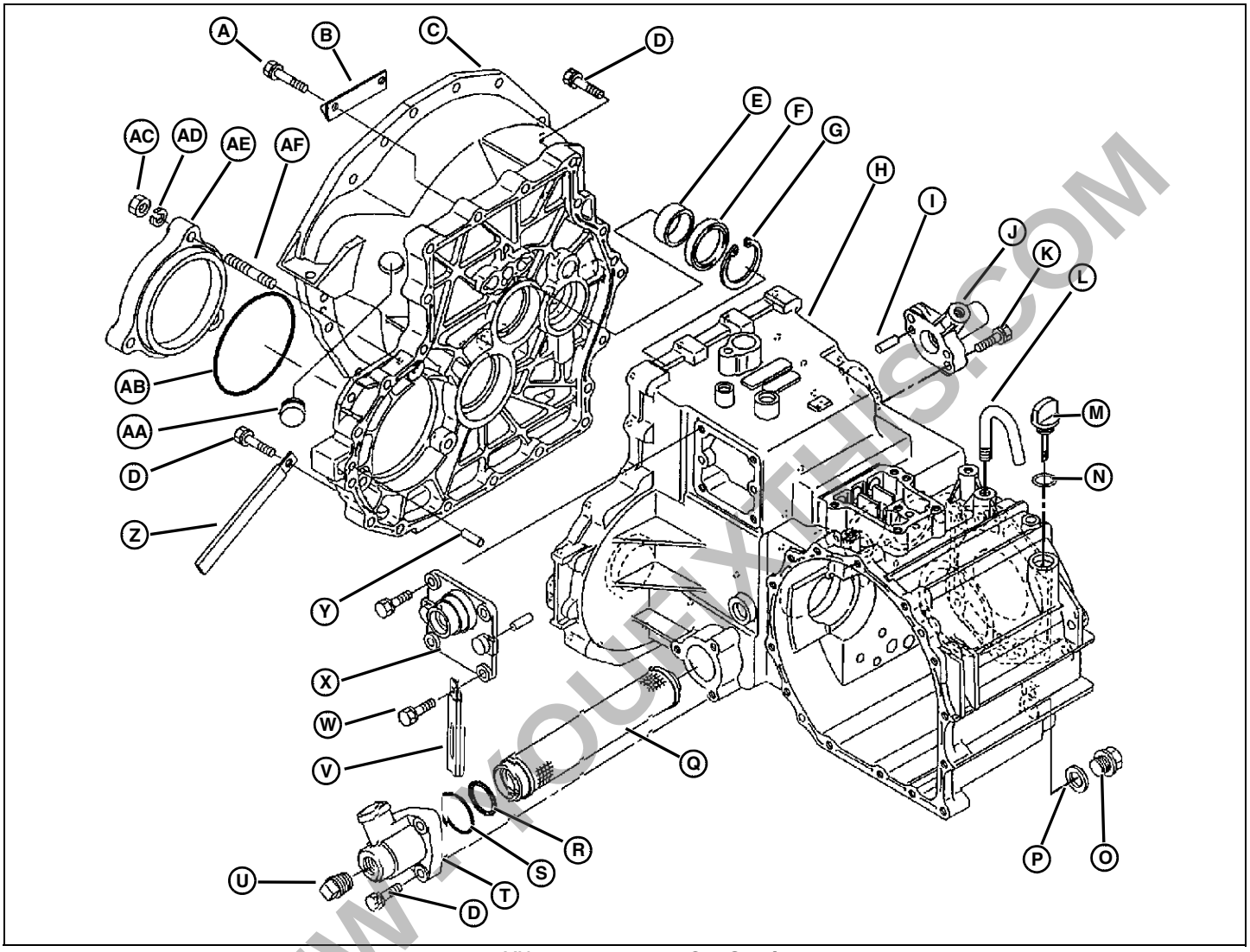
MX0679

A - Cotter Pin
B - Nut
C - Hub
D - Seal
E - Bearing
F - Cap Screw (4 used)
G - Lock Washer (4 used)
H - Bearing Housing
I - Steering Knuckle
J - Ball Joint (2 used)
K - Nut (2 used)
L - Steering Bracket
M - Axle
N - Washer
O - Seal
P - Snap Ring

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Transaxle Case Component Location



MX0688

A - Cap Screw with Washer (2 used)
B - Bracket
C - Clutch Housing
D - Cap Screw with Washer (23 used)
E - Sleeve
F - Seal
G - Snap Ring
H - Transaxle Case
I - Pin (4 used)
J - Cover
K - Screw (2 used)
L - Fitting
M - Dip Stick
N - O-Ring
O - Drain Plug
P - Gasket
Q - Strainer
R - O-Ring
S - Seal
T - Adapter
U - Drain Plug
V - Clamp
W - Cap Screw with Washer (4 used)
X - Cover
Y - Pin (2 used)
Z - Clamp
AA- Cap (2 used)
AB- Seal
AC- Nut (3 used)
AD- Lock Washer (3 used)
AE- Cover
AF- Stud (3 used)

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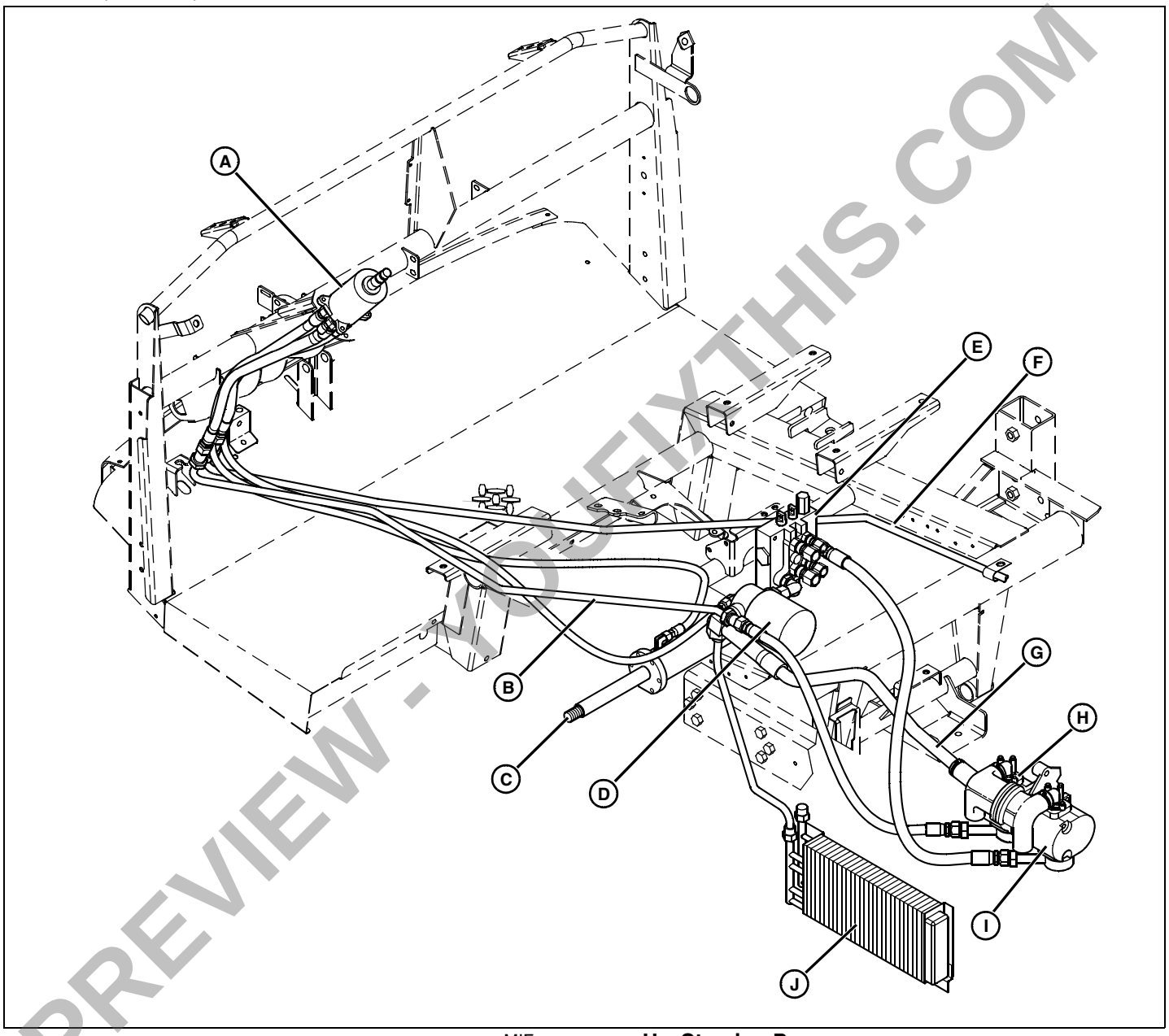
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Component Location

Hydraulic System Components

ProGator

Serial No. (-020000)



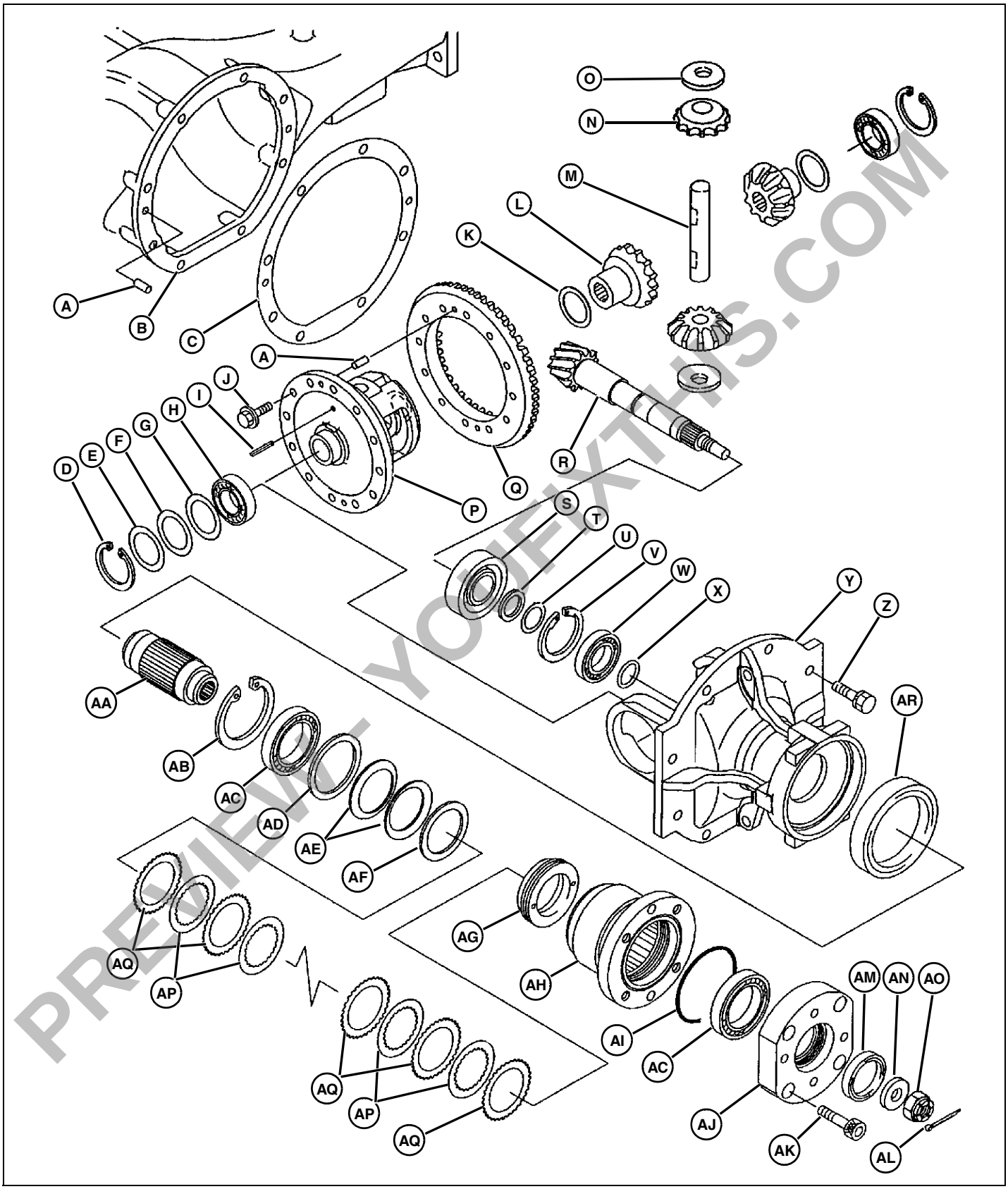
MIF

A - Steering Control Unit
B - Pressure Line
C - Steering Cylinder
D - Filter (Kit)
E - Control Valve
F - Return Line to Sump (Steering)
G - Return Line to Pump (Auxiliary)
H - Steering Pump
I - Auxiliary Pump
J - Oil Cooler (Kit)

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MFWD Differential Component Location



MX0681

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