9410, 9510, and 9610 Combines Repairs

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For complete service information also see:

9410, 9510, and 9610 Combines	
Diagnosis and Tests	**TM1702**
Cam Lobe Motors	**CTM19**
Engine Accessories	**CTM67**
Electronic Fuel Injection	**CTM68**
Alternators and Starting Motors	**CTM77**
6081 Diesel Engines	**CTM86**
6068 Engine	**CTM104**

John Deere Harvester Works
TM1701 (31OCT97)

LITHO IN U.S.A.
ENGLISH

Introduction

Foreword

This manual is written for an experienced technician. Essential tools required in performing certain service work are identified in this manual and are recommended for use.

Live with safety: Read the safety messages in the introduction of this manual and the cautions presented throughout the text of the manual.

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

Technical manuals are divided in two parts: repair and operation and tests. Repair sections tell how to repair the components. Operation and tests sections help you identify the majority of routine failures quickly.

Information is organized in groups for the various components requiring service instruction. At the beginning of each group are summary listings of all applicable essential tools, service equipment and tools, other materials needed to do the job, service parts kits, specifications, wear tolerances, and torque values.

Technical Manuals are concise guides for specific machines. They are on-the-job guides containing only the vital information needed for diagnosis, analysis, testing, and repair.

Fundamental service information is available from other sources covering basic theory of operation, fundamentals of troubleshooting, general maintenance, and basic type of failures and their causes.

DX,TMIFC –19–22MAY92–1/1

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Contents

SECTION 10—General
- Group 05—Safety
- Group 10—Identification Number Location
- Group 15—Specifications
- Group 20—Tune Up and Adjustment
- Group 25—Fuels and Lubricants

SECTION 20—Engine
- Group 05—Remove and Install Engine
- Group 10—Cooling System
- Group 15—Lower Engine Repair

SECTION 30—Fuel and Air Repair
- Group 05—Air Intake System
- Group 10—Diesel Fuel System

SECTION 40—Electrical System
- Group 05—Components
- Group 10—Bulbs and Switches
- Group 15—Batteries
- Group 20—Harness and Connector Repair
- Group 25—Gauges and Monitors
- Group 30—Wiper and Radio
- Group 35—Alternator
- Group 40—Starting Motor
- Group 45—Electrical Engine Control

SECTION 50—Power Train Repair
- Group 05—Transmission and Differential
- Group 10—Ring and Pinion Final Drive
- Group 15—Planetary Final Drive
- Group 20—Hydrostatic System
- Group 25—Cam Lobe Motor
- Group 30—Tires and Wheels

SECTION 60—Power Steering and Brakes
- Group 05—Steering
- Group 10—Brakes

SECTION 70—Hydraulic Repair
- Group 05—Hydraulic Reservoir
- Group 10—Hydraulic Pumps
- Group 15—Hydraulic Valves
- Group 20—Hydraulic Cylinders
- Group 25—Motors
- Group 30—Accumulator
- Group 35—Reel/Belt Pickup Pump Drive

SECTION 80—Separator Shell
- Group 05—Gull Wing Doors
- Group 10—Cleaning Fan Shields

SECTION 90—Operator Station Repair
- Group 10—Air Conditioning System (R134a)
- Group 15—System Components
- Group 20—Cab

SECTION 110—Feeder House Repair
- Group 05—Feeder House/Conveyor
- Group 10—Feeder House Conveyor Drum
- Group 15—Conveyor Shaft and Slip Clutch
- Group 20—Feeder House Drives and Reverser Gear Case
- Group 25—Contour Master™ Platform Driveshafts
- Group 30—Contour Master™ Tilt Cylinder
- Group 35—Contour Master™ Tilt Frame

SECTION 120—Separator
- Group 05—Separator Repair
- Group 10—Cylinder Drives
- Group 15—Straw Walkers and Crankshafts
- Group 20—Straw Chopper, Straw Spreader and Chaff Spreader
- Group 25—Shoe Supply Augers, Cleaning Fan and Chaffer and Sieve Frame
- Group 30—Tailings Elevator and Augers
- Group 35—Primary Countershaft Gearcase
- Group 40—Header Electromagnetic Clutch

SECTION 130—Grain Tank and Unloading System Repair
- Group 05—Grain Tank Cross Augers
- Group 10—Unloading Auger System Drives
- Group 15—Vertical Unloading Auger and Lower Gearcase
- Group 20—Horizontal Unloading Auger and Gearcase

Continued on next page

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Group 25—Upper Clean Grain Elevator
Group 30—Grain Tank and Extensions
Group 35—Clean Grain Elevator and Loading Auger Gear Case

SECTION 140—Engine Gearcase and Control Valve Repair
Group 05—Engine Gearcase and Valve

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Section 10
General

Contents

Page

Group 05—Safety
Recognize Safety Information 10-05-1
Understand Signal Words 10-05-1
Handle Fluids Safely—Avoid Fires 10-05-1
Prevent Battery Explosions 10-05-2
Prepare for Emergencies. 10-05-2
Prevent Acid Burns 10-05-3
Avoid High-Pressure Fluids. 10-05-4
Park Machine Safely 10-05-4
Support Machine Properly. 10-05-5
Wear Protective Clothing. 10-05-5
Service Machines Safely 10-05-5
Work in Ventilated Area 10-05-6
Illuminate Work Area Safely 10-05-6
Replace Safety Signs 10-05-6
Use Proper Lifting Equipment 10-05-6
Service Tires Safely 10-05-7
Avoid Harmful Asbestos Dust 10-05-7
Work in Clean Area. 10-05-8
Practice Safe Maintenance 10-05-8
Use Proper Tools 10-05-9
Dispose of Waste Properly 10-05-9
Use Adequate Service Facilities 10-05-10
Live With Safety 10-05-10

Group 10—Identification Number Location
Identification Plates 10-10-1
Combine Identification Number 10-10-1
Engine Serial Number
9410 Combines 10-10-1
9510 and 9610 Combines 10-10-2
Hydrostatic Drive Unit Pump 10-10-2
Hydrostatic Drive Unit Motor 10-10-2
Right Cam Lobe Four-Wheel Drive Motor 10-10-2
Left Cam Lobe Four-Wheel Drive Motor 10-10-3
Engine Gearcase 10-10-3
Transmission. 10-10-3
Cab. 10-10-4

Group 15—Specifications
Operating Speeds 10-15-1
Grounds Speed (Fast Idle) 10-15-2
Ground Speeds (Fast Idle) 10-15-3
Turning Radius 10-15-3
Specifications
9410 Combine 10-15-4

Page

9510 Combine 10-15-6
9610 Combine 10-15-8
Dimensions 10-15-10
Dimension Reference Points 10-15-11
Inch Bolt and Cap Screw. 10-15-12
Metric Bolt and Cap Screw 10-15-14
O-Ring Boss Fitting Torque Chart 10-15-16
Flat Face O-Ring Seal Fitting Torque Chart 10-15-17
SAE Four Bolt Flange Fitting Torque Chart . . .10-15-18
Prevent Hydraulic System Contamination 10-15-19
Check Oil Lines and Fittings 10-15-20

Group 20—Tune Up and Adjustment
Tune-Up and Adjustment. 10-20-1
Care and Maintenance of Belts 10-20-2
Defective Belts 10-20-4
Right-Hand Drives and Part Numbers 10-20-6
Left-Hand Drives and Part Numbers 10-20-8

Group 25—Fuels and Lubricants
Diesel Fuel 10-25-1
Fuel Storage 10-25-2
Engine Coolant 10-25-3
Liquid Coolant Conditioner 10-25-3
Diesel Engine Oil 10-25-4
Hydrostatic Drive System, Main Hydraulic System and Main Engine Gear Case Oils . . .10-25-5
Transmission, Final Drives, and Drive Gear Cases 10-25-6
Greases 10-25-7
Lubricant Storage 10-25-7
Alternative and Synthetic Lubricants 10-25-8
Filter Part Numbers. 10-25-8

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10
05
1

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 –19–03MAR93–1/1

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 –19–03MAR93–1/1

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 –19–04JUN90–1/1

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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).



TS204 –UN–23AUG88

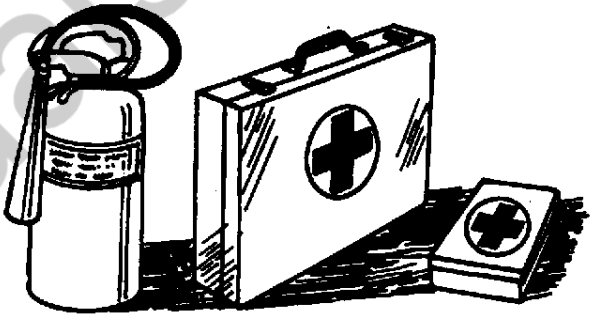
DX,SPARKS –19–03MAR93–1/1

PREPARE FOR EMERGENCIES

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.



TS291 –UN–23AUG88

DX,FIRE2 –19–03MAR93–1/1

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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 the hazard by:

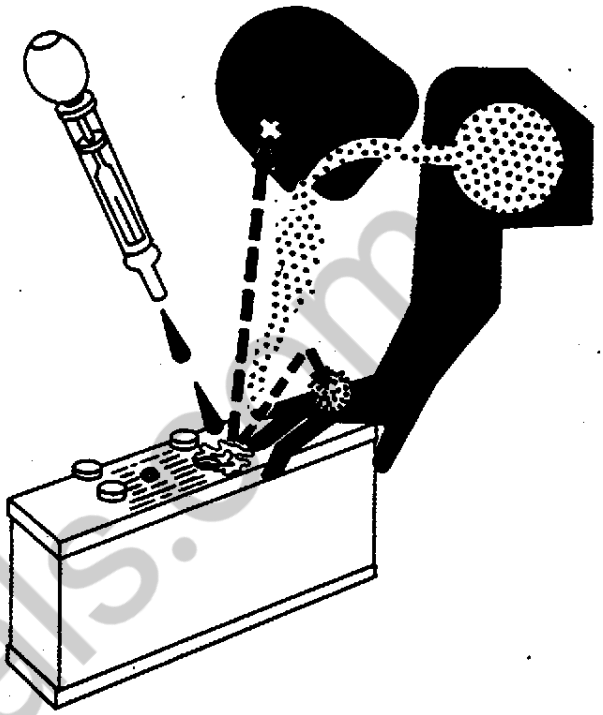
1. Filling batteries in a well-ventilated area.
2. Wearing eye protection and rubber gloves.
3. Avoiding breathing fumes when electrolyte is added.
4. Avoiding spilling or dripping electrolyte.
5. Use proper jump start procedure.

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 15—30 minutes. Get medical attention immediately.

If acid is swallowed:

1. Do not induce vomiting.
2. Drink large amounts of water or milk, but do not exceed 2 L (2 quarts).
3. Get medical attention immediately.



TS203 –UN–23AUG88

DX,POISON –19–21APR93–1/1

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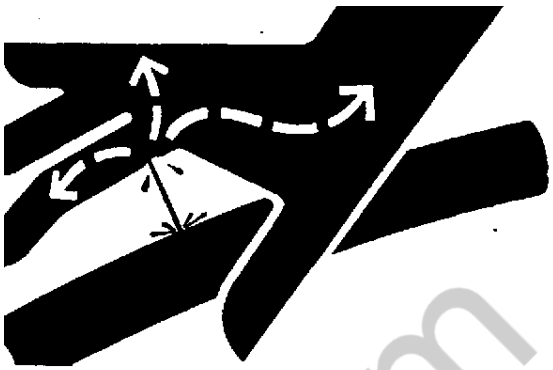
AVOID HIGH-PRESSURE FLUIDS

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

Avoid the hazard by relieving pressure before disconnecting 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.



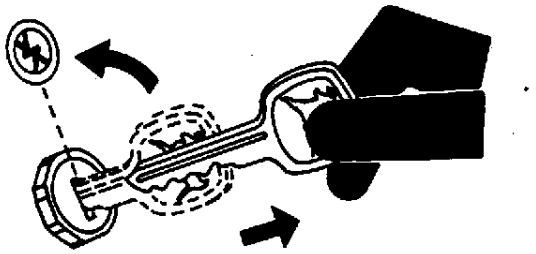
X9811 –UN–23AUG88

DX,FLUID –19–03MAR93–1/1

PARK MACHINE SAFELY

Before working on the machine:

- Lower all equipment to the ground.
- Stop the engine and remove the key.
- Disconnect the battery ground strap.
- Hang a “DO NOT OPERATE” tag in operator station.



TS230 –UN–24MAY89

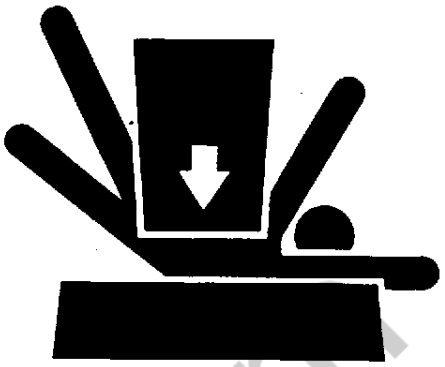
DX,PARK –19–04JUN90–1/1

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SUPPORT MACHINE PROPERLY

Always lower the attachment or implement to the ground before you work on the machine. If you must work on a lifted machine or attachment, securely support the machine or attachment.

Do not support the machine on cinder blocks, hollow tiles, or props that may crumble under continuous load. Do not work under a machine that is supported solely by a jack. Follow recommended procedures in this manual.



TS229 –UN–23AUG88

DX,LOWER –19–04JUN90–1/1

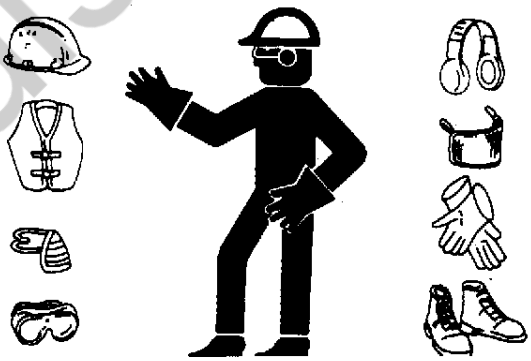
WEAR PROTECTIVE CLOTHING

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.



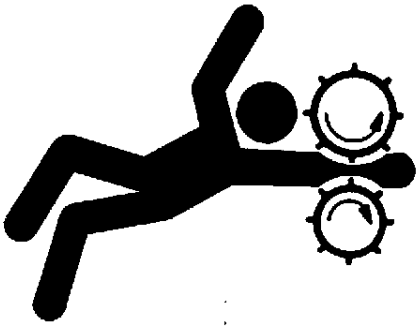
TS206 –UN–23AUG88

DX,WEAR –19–10SEP90–1/1

SERVICE MACHINES SAFELY

Tie long hair behind your head. Do not wear a necktie, scarf, loose clothing, or necklace when you work near machine tools or moving parts. If these items were to get caught, severe injury could result.

Remove rings and other jewelry to prevent electrical shorts and entanglement in moving parts.



TS228 –UN–23AUG88

DX,LOOSE –19–04JUN90–1/1

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WORK IN VENTILATED AREA

Engine exhaust fumes can cause sickness or death. If it is necessary to run an engine in an enclosed area, remove the exhaust fumes from the area with an exhaust pipe extension.

If you do not have an exhaust pipe extension, open the doors and get outside air into the area.



TS220 –UN–23AUG88

DX,AIR –19–04JUN90–1/1

ILLUMINATE WORK AREA SAFELY

Illuminate your work area adequately but safely. Use a portable safety light for working inside or under the machine. Make sure the bulb is enclosed by a wire cage. The hot filament of an accidentally broken bulb can ignite spilled fuel or oil.

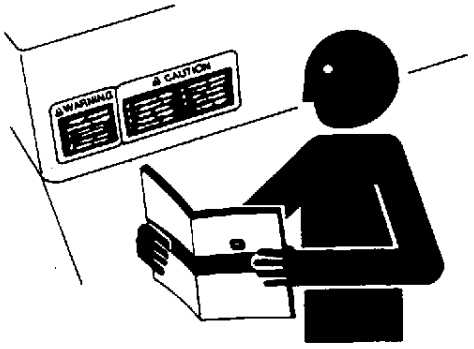


TS223 –UN–23AUG88

DX,LIGHT –19–04JUN90–1/1

REPLACE SAFETY SIGNS

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



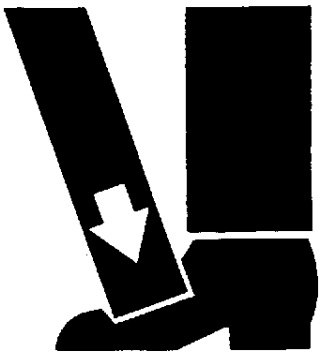
TS201 –UN–23AUG88

DX,SIGNS1 –19–04JUN90–1/1

USE PROPER LIFTING EQUIPMENT

Lifting heavy components incorrectly can cause severe injury or machine damage.

Follow recommended procedure for removal and installation of components in the manual.



TS226 –UN–23AUG88

DX,LIFT –19–04JUN90–1/1

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SERVICE TIRES SAFELY

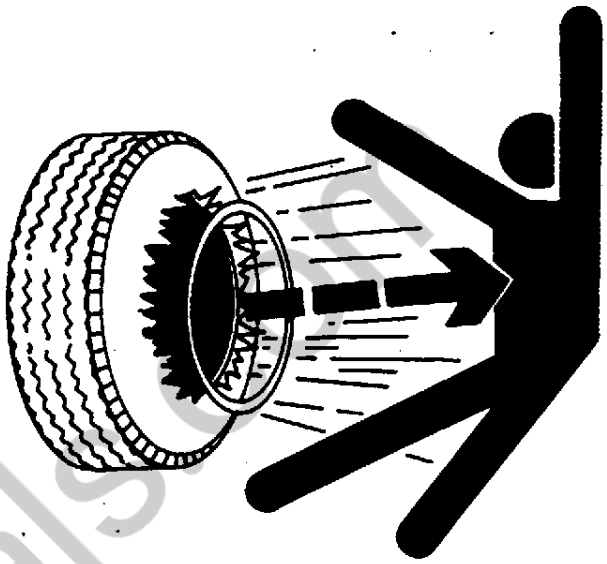
Explosive separation of a tire and rim parts can cause serious injury or death.

Do not attempt to mount a tire unless you have the proper equipment and experience to perform the job.

Always maintain the correct tire pressure. Do not inflate the tires above the recommended pressure. Never weld or heat a wheel and tire assembly. The heat can cause an increase in air pressure resulting in a tire explosion. Welding can structurally weaken or deform the wheel.

When inflating tires, use a clip-on chuck and extension hose long enough to allow you to stand to one side and NOT in front of or over the tire assembly. Use a safety cage if available.

Check wheels for low pressure, cuts, bubbles, damaged rims or missing lug bolts and nuts.



TS211 –UN–23AUG88

DX,RIM –19–24AUG90–1/1

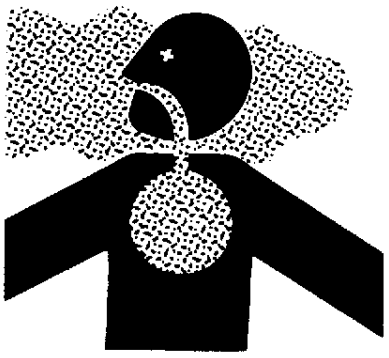
AVOID HARMFUL ASBESTOS DUST

Avoid breathing dust that may be generated when handling components containing asbestos fibers. Inhaled asbestos fibers may cause lung cancer.

Components in products that may contain asbestos fibers are brake pads, brake band and lining assemblies, clutch plates, and some gaskets. The asbestos used in these components is usually found in a resin or sealed in some way. Normal handling is not hazardous as long as airborne dust containing asbestos is not generated.

Avoid creating dust. Never use compressed air for cleaning. Avoid brushing or grinding material containing asbestos. When servicing, wear an approved respirator. A special vacuum cleaner is recommended to clean asbestos. If not available, apply a mist of oil or water on the material containing asbestos.

Keep bystanders away from the area.



TS220 –UN–23AUG88

DX,DUST –19–15MAR91–1/1

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