

655, 755, 855, 955, 756 and 856 Compact Utility Tractors

TECHNICAL MANUAL

**John Deere
Lawn & Grounds Care Division
TM1360 (June 1996)**

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.

PThis 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 diagnostics. Repair sections tell how to repair the components. Diagnostic 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.

Binders, binder labels, and tab sets can be ordered by John Deere dealers direct from the John Deere Distribution Service Center.

This manual is part of a total product support program.

FOS MANUALS—REFERENCE

TECHNICAL MANUALS—MACHINE SERVICE

COMPONENT MANUALS—COMPONENT SERVICE

Fundamentals of Service (FOS) Manuals cover basic theory of operation, fundamentals of troubleshooting, general maintenance, and basic type of failures and their causes. FOS Manuals are for training new personnel and for reference by experienced technicians.

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

Component Technical Manuals are concise service guides for specific components. Component technical manuals are written as stand-alone manuals covering multiple machine applications.

NOTE: The 756 and 856 tractors are identical to the 755 and 855 tractors; therefore, all information pertaining to the 755 also pertains to the 756 and the same is true for the 855 and the 856 tractors. The 655, 756 and 856 tractors were all discontinued before the late model 755 and 855 tractors and the new 955 tractors were produced. Therefore, any late model references do not include the 655, 756, and 856 tractors.

Contents

SECTION 10—GENERAL INFORMATION

- Group 05—Safety
- Group 10—Repair Specifications
- Group 15—Repair Information
- Group 20—Fuels, Lubricants, and Coolants
- Group 25—Serial Number Locations

SECTION 20—DIESEL ENGINE REPAIR

- Group 05—Yanmar Diesel Engine Repair
- Group 10—Remove and Install Oil Cooler
- Group 15—Remove and Install Radiator
- Group 20—Remove and Install Diesel Engine

SECTION 30—FUEL AND AIR REPAIR

- Group 05—Fuel Transfer Pump
- Group 10—Fuel Tank
- Group 15—Fuel Tank Tube and Sender
- Group 20—Air Cleaner

SECTION 40—ALTERNATOR REPAIR

- Group 05—Alternator Repair Specifications
- Group 10—Alternator Installation

SECTION 50—POWER TRAIN REPAIR

- Group 05—Hydrostatic Transmission
- Group 10—Transaxle
- Group 15—Final Drives
- Group 20—Mechanical Front Wheel Drive (MFWD)
- Group 25—Power Train Gears and Shafts
- Group 30—Speed Control Linkage

SECTION 60—STEERING AND BRAKES REPAIR

- Group 05—Standard Front Axle
- Group 10—Steering Valve
- Group 15—Brake Linkage

SECTION 70—HYDRAULICS REPAIR

- Group 05—Hydraulic Pump
- Group 10—Flow Divider and Selective Control Valves (SCV's)
- Group 15—Rockshaft
- Group 20—Hydraulic Hoses

SECTION 80—MISCELLANEOUS REPAIR

- Group 15—Operator's Seat
- Group 20—European Roll-Gard®
- Group 25—German Rear Hitch
- Group 30—3-Point Hitch

SECTION 210—MACHINE OPERATIONAL CHECKOUT PROCEDURE

- Group 05—Machine Operational Checkout Procedure

SECTION 220—ENGINE/FUEL OPERATION AND TESTS

- Group 05—Engine Systems Operational Checkout Procedure
- Group 10—Engine System Diagnosis

SECTION 240—ELECTRICAL OPERATION AND TESTS

- Group 05—Electrical System Checkout
- Group 10—Electrical System Diagnosis
- Group 15—Theory of Operation

SECTION 250—POWER TRAIN OPERATION AND TESTS

- Group 05—Power Train System Checkout
- Group 10—Power Train Tests and Adjustments
- Group 15—Theory of Operation

SECTION 260—STEERING AND BRAKE OPERATION AND TESTS

- Group 05—Steering and Brakes System Checkout
- Group 10—Steering and Brakes Tests and Adjustments
- Group 15—Theory of Operation

SECTION 270—HYDRAULIC OPERATION AND TESTS

- Group 05—Hydraulic System Checkout
- Group 10—Hydraulic System Tests and Adjustments
- Group 15—Theory of Operation

INDEX

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

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10

20

30

40

50

60

70

80

210

220

Section 10

General Information

Contents

	Page		Page
Group 05—Safety		Group 25—Serial Number Locations	
Safety Items	10-05-1	Product Serial Number	10-25-1
Group 10—Repair Specifications		Engine Serial Number	10-25-1
General Tractor Specifications	10-10-1	Transaxle Serial Number	10-25-1
Group 15—Repair Information		Mower Deck Serial Number	10-25-1
Metric Fastener Torque Values	10-15-1		
Inch Fastener Torque Values	10-15-2		
O-Ring Face Seal Fittings	10-15-3		
O-Ring Boss Fittings	10-15-4		
Group 20—Fuels, Lubricants, and Coolants			
Diesel Fuel—North America	10-20-1		
Diesel Fuel Lubricity—North America	10-20-1		
Diesel Fuel Storage—North America	10-20-1		
Diesel Fuel—Europe	10-20-2		
Diesel Fuel Lubricity—Europe	10-20-2		
Diesel Fuel Storage—Europe	10-20-2		
Engine Oil—North America	10-20-3		
Engine Oil—Europe	10-20-4		
Break-in Engine Oil—North America	10-20-5		
Break-in Engine Oil—Europe	10-20-6		
Hydrostatic Transmission and Hydraulic Oil— North America	10-20-7		
Hydrostatic Transmission and Hydraulic Oil— Europe	10-20-8		
Gear Case Oil (MFWD)—North America	10-20-9		
Gear Case Oil (MFWD)—Europe	10-20-10		
Grease—North America	10-20-11		
Grease—Europe	10-20-12		
North America			
Alternative Lubricants	10-20-13		
Synthetic Lubricants	10-20-13		
Lubricant Storage	10-20-13		
Mixing of Lubricants	10-20-13		
Oil Filters	10-20-13		
Europe			
Alternative Lubricants	10-20-14		
Synthetic Lubricants	10-20-14		
Lubricant Storage	10-20-14		
Mixing of Lubricants	10-20-14		
Oil Filters	10-20-14		
Diesel Engine Coolant—North America	10-20-15		
Diesel Engine Coolant—Europe	10-20-16		

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.



DX,FLAME -19-04JUN90

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TS227

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).



DX,SPARKS -19-04JUN90

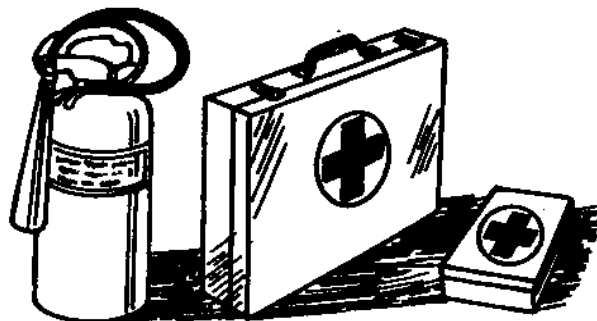
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TS204

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.



DX,FIRE2 -19-04JUN90

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TS291

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:

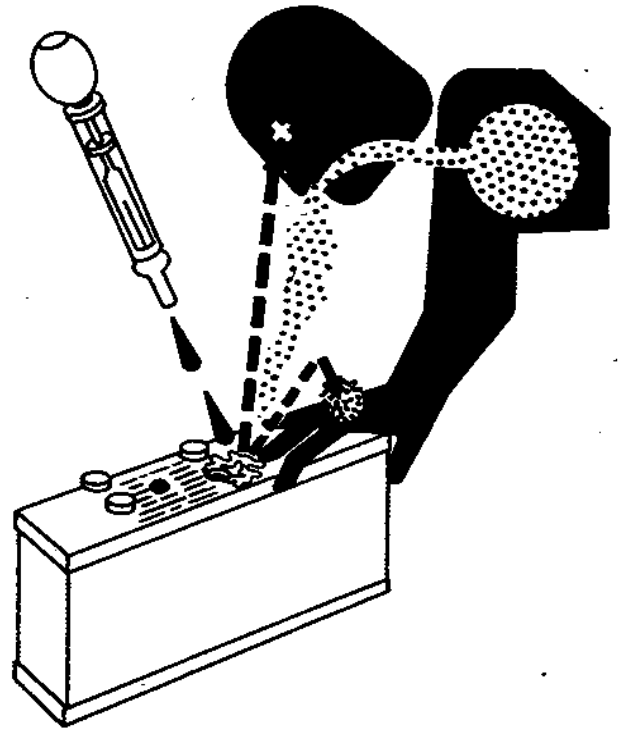
1. Filling batteries in a well-ventilated area.
2. Wearing eye protection and rubber gloves.
3. Avoiding breathing fumes when electrolyte is added.
4. Avoiding spilling or dripping electrolyte.
5. Use proper jump start procedure.

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 10—15 minutes. 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.



DX, POISON -19-04JUN90

TS203 -UN-23AUG88

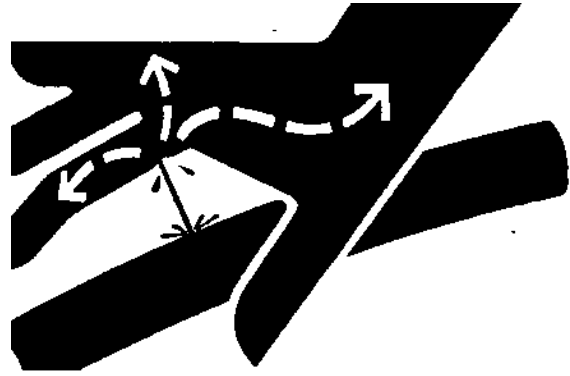
AVOID HIGH-PRESSURE FLUIDS

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.



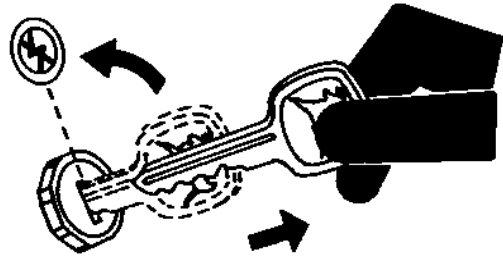
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X9811

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.



DX,PARK -19-04JUN90

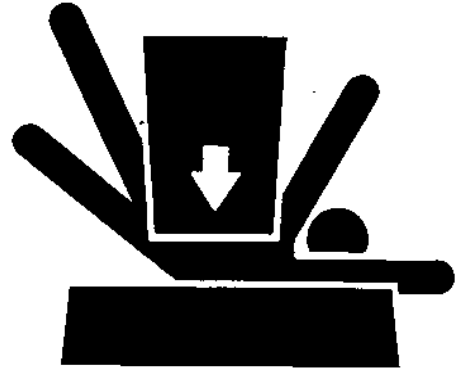
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TS230

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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.



DX,LOWER -19-04JUN90

TS229 -UN-23AUG88

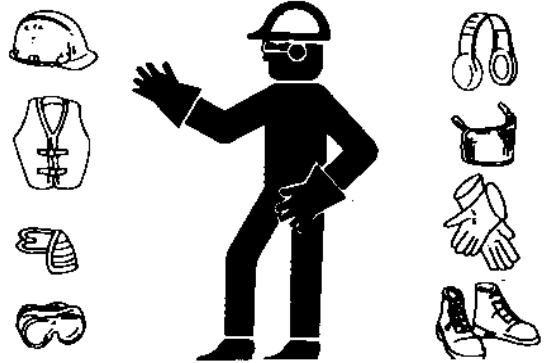
WEAR PROTECTIVE CLOTHING

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.



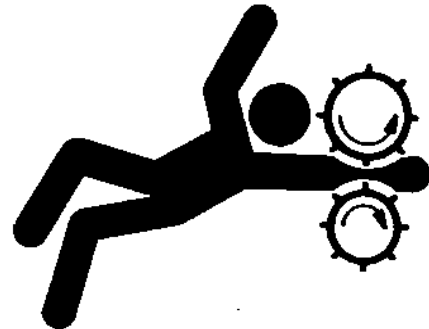
DX,WEAR -19-10SEP90

TS206 -UN-23AUG88

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.



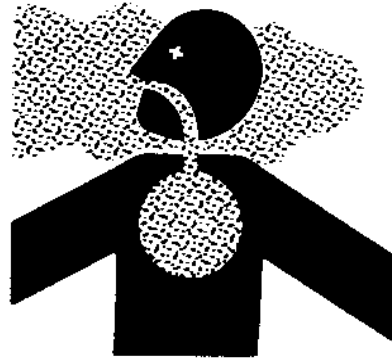
DX,LOOSE -19-04JUN90

TS228 -UN-23AUG88

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.



DX,AIR -19-04JUN90

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TS220

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.

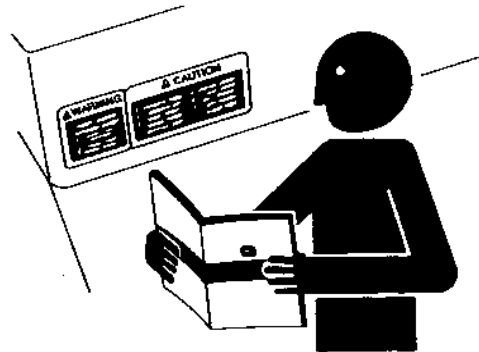


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TS223

REPLACE SAFETY SIGNS

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



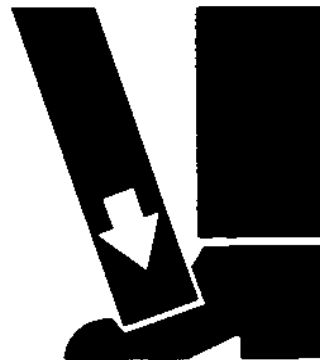
DX,SIGNS1 -19-04JUN90

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TS201

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.



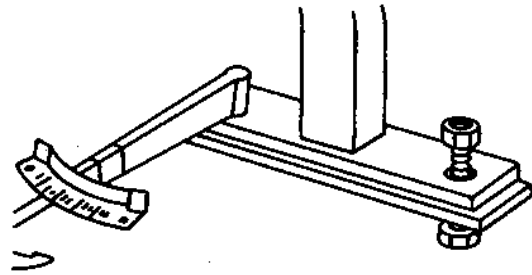
DX,LIFT -19-04JUN90

-UN-23AUG88
TS226

KEEP ROPS INSTALLED PROPERLY

Make certain all parts are reinstalled correctly if the roll-over protective structure (ROPS) is loosened or removed for any reason. Tighten mounting bolts to proper torque.

The protection offered by ROPS will be impaired if ROPS is subjected to structural damage, is involved in an overturn incident, or is in any way altered by welding, bending, drilling, or cutting. A damaged ROPS should be replaced, not reused.



DX,ROPS3 -19-04JUN90

TS212 -UN-23AUG88

SERVICE TIRES SAFELY

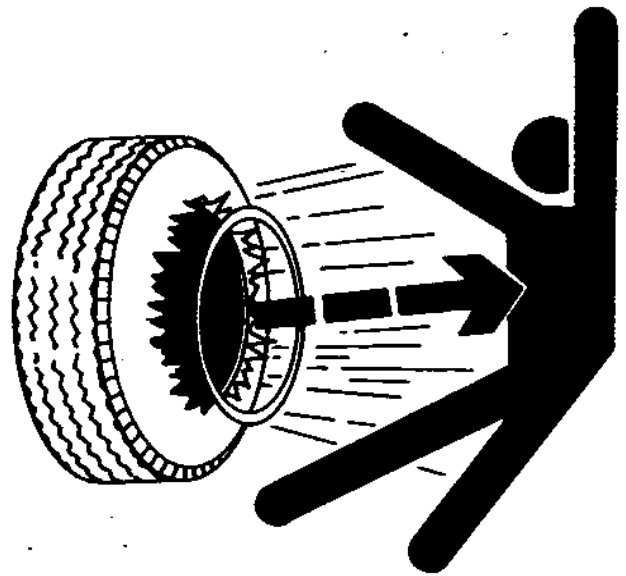
Explosive separation of a tire and rim parts can cause serious injury or death.

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.



DX,RIM -19-24AUG90

TS211 -UN-23AUG88