750C, 850C Crawler Dozer Repair

TECHNICAL MANUAL
750C, 850C, 750C Series II, 850C Series II Crawler Dozers

TM1589 10AUG04 (ENGLISH)

For complete service information also see:

750C, 850C, Crawler Dozer Operation and Test	TM1588
6068 Engine	CTM8
6068 POWERTECH™ Engine	CTM104
6076 Engine	CTM42
6081 POWERTECH™ Engine Repair	CTM86
Undercarriage Appraisal Manual	SP326

Worldwide Construction And Forestry Division
LITHO IN U.S.A.

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 problems 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 problems and their causes.

TX,750C,SS2406 –19–13JUL95–1/1

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THANK YOU!

TX,TM,FAX –19–03JUL01–1/1

Contents

SECTION 00—General Information
- Group 01—Safety
- Group 02—General Specifications
- Group 03—Torque Values
- Group 04—Fuels and Lubricants

SECTION 01—Tracks
- Group 0130—Track System
- Group 0199—Dealer Fabricated Tools

SECTION 02—Axles and Suspension Systems
- Group 0201—Drive Axle Housing and Support
- Group 0250—Axle Shaft, Bearings and Reduction Gears
- Group 0299—Dealer Fabricated Tools

SECTION 03—Transmission
- Group 0300—Remove and Install
- Group 0315—Control Linkage
- Group 0360—Hydrostatic System
- Group 0399—Dealer Fabricated Tools

SECTION 04—Engine
- Group 0400—Removal and Installation

SECTION 05—Engine Auxiliary Systems
- Group 0505—Cold Weather Starting Aid
- Group 0510—Cooling System
- Group 0515—Speed Controls
- Group 0520—Intake System
- Group 0530—External Exhaust Systems
- Group 0560—External Fuel Supply Systems
- Group 0599—Dealer Fabricated Tools

SECTION 07—Dampener Drive
- Group 0752—Elements

SECTION 11—Park Brake
- Group 1100—Park Brake
- Group 1115—Control Linkage
- Group 1160—Hydraulic System

SECTION 15—Equipment Attaching
- Group 1511—Drawbar

SECTION 16—Electrical System
- Group 1671—Batteries, Support, and Cables
- Group 1672—Alternator, Regulator and Charging System Wiring
- Group 1673—Lighting System
- Group 1674—Wiring Harness and Switches
- Group 1675—System Controls
- Group 1677—Motors and Actuators

SECTION 17—Frames, Chassis, or Supporting Structure
- Group 1740—Frame Installation
- Group 1746—Frame Bottom Guards
- Group 1749—Chassis Weights

SECTION 18—Operator's Station
- Group 1800—Removal and Installation
- Group 1810—Operator Enclosure
- Group 1821—Seat and Seat Belt
- Group 1830—Heating and Air Conditioning

SECTION 19—Sheet Metal
- Group 1910—Hood and Engine Enclosures
- Group 1921—Grille and Grille Housing

SECTION 20—Safety, Convenience and Miscellaneous
- Group 2004—Horn and Warning Devices

SECTION 32—Bulldozer
- Group 3200—Removal and Installation
- Group 3201—Blade
- Group 3215—Controls Linkage
- Group 3240—Frames
- Group 3260—Hydraulic System
- Group 3299—Dealer Fabricated Tools

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.

Section 00
General Information

Contents

Page

Group 01—Safety 00-01-1

Group 02—General Specifications
750C Series II Specifications. 00-02-1
750C Series II Capacity Specifications 00-02-3
750C Series II General Specifications 00-02-4
750C LT Series II Dimensions. 00-02-6
750C WT Series II Dimensions 00-02-9
750C LGP Series II Dimensions 00-02-11
850C Series II Specifications. 00-02-13
850C Series II Capacity Specifications 00-02-16
850C Series II General Specifications 00-02-17
850C LT Series II Dimensions. 00-02-19
850C WT Series II Dimensions 00-02-22
850C LGP Series II Dimensions 00-02-24

Group 03—Torque Values
Hardware Torque Specifications 00-03-1
Keeping ROPS Installed Properly 00-03-1
Checking Track Shoe Cap Screw Torque 00-03-2
Checking Track Shoe Cap Screw Torque—
Master Link 00-03-3
Metric Bolt and Cap Screw Torque Values 00-03-5
Additional Metric Cap Screw Torque Values . . .00-03-6
Service Recommendations for Metric
Series Four Bolt Flange Fitting 00-03-8
Unified Inch Bolt and Cap Screw Torque
Values 00-03-9
Check Oil Lines And Fittings 00-03-10
Service Recommendations for O-Ring
Boss Fittings 00-03-11
Service Recommendations for Flat Face
O-Ring Seal Fittings. 00-03-13
Service Recommendations for Inch Series
Four Bolt Flange Fittings 00-03-14

Group 04—Fuels and Lubricants
Diesel Fuel 00-04-1
Handling and Storing Diesel Fuel 00-04-1
Fuel Tank 00-04-2
Low Sulfur Diesel Fuel Conditioner 00-04-2
Diesel Fuel Storage. 00-04-3
Diesel Engine Oil 00-04-4
Transmission, Hydraulic, and Hand Pump
Reservoir Oil 00-04-5
Inner and Outer Final Drive Oil 00-04-6

Page

Track Rollers, Front Idler, Carrier Roller
and Track Frame Outer Pivot Oil 00-04-7
Grease 00-04-7
Lubricant Storage 00-04-8
Alternative and Synthetic Lubricants 00-04-8
Mixing of Lubricants 00-04-9
Diesel Engine Coolant. 00-04-9

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

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 specification.

Specification

Battery—Warm ..... 16°C (60°F)

TS204 –UN–23AUG88

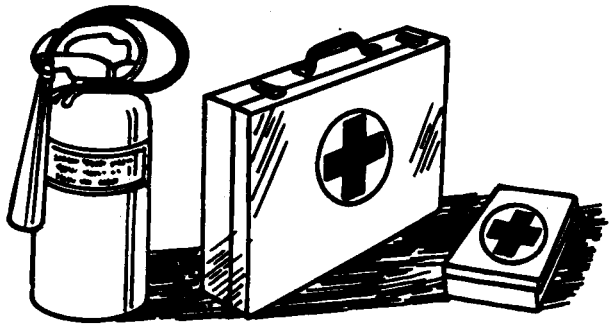
DX,SPARKS –19–03MAR93–1/1

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:

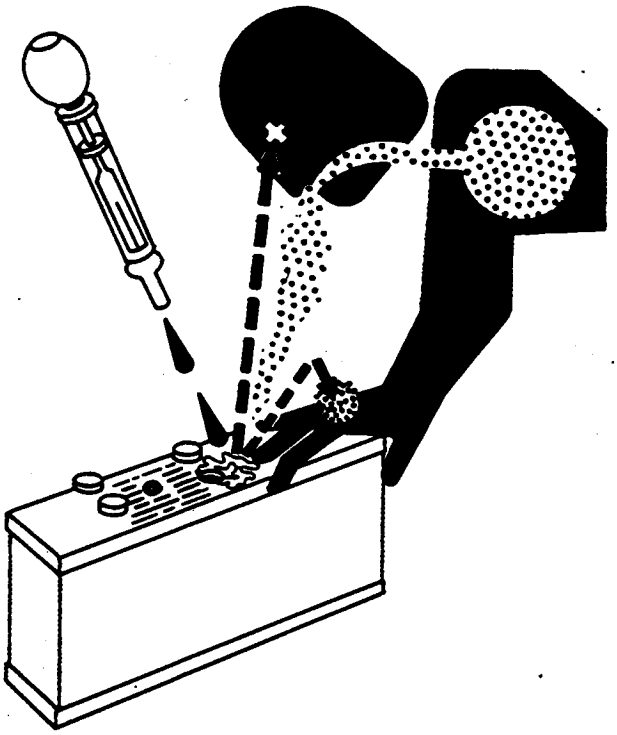
1. Filling batteries in a well-ventilated area.
2. Wearing eye protection and rubber gloves.
3. Avoiding breathing fumes when electrolyte is added.
4. Avoiding spilling or dripping electrolyte.
5. Use proper jump start procedure.

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:

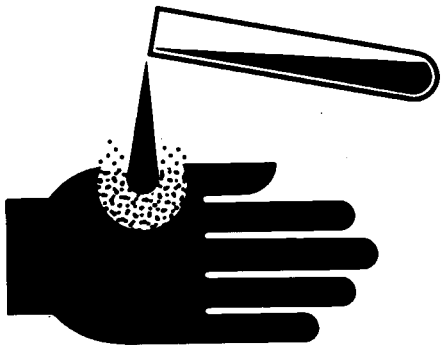
1. Do not induce vomiting.
2. Drink large amounts of water or milk, but do not exceed 2 L (2 quarts).
3. Get medical attention immediately.



TS203 –UN–23AUG88

DX,POISON –19–21APR93–1/1

Handle Chemical Products Safely



TS272 –UN–23AUG88

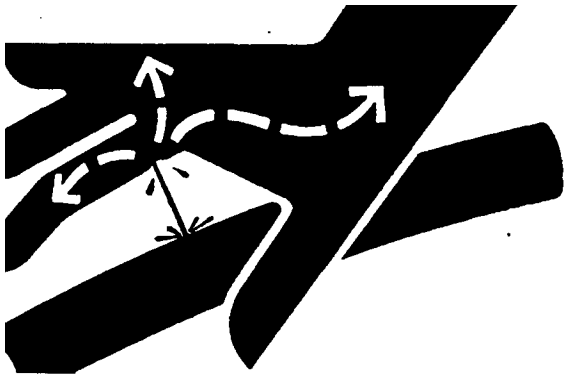
Direct exposure to chemical products can cause severe skin irritation and injury. Hazardous fumes can be generated when handling the chemicals.

Wear close fitting clothing and a face mask when handling chemicals. Dispose of chemical waste and packaging material properly.

A Material Safety Data Sheet provides specific details on chemical products and physical dangers, safety procedures, and emergency response techniques. User awareness and training is required under U.S. workplace and environmental laws. See your John Deere dealer for information on chemical products used with John Deere equipment.

DX,MSDS –19–28SEP90–1/1

Avoid High-Pressure Fluids



X9811 –UN–23AUG88

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.

DX,FLUID –19–03MAR93–1/1

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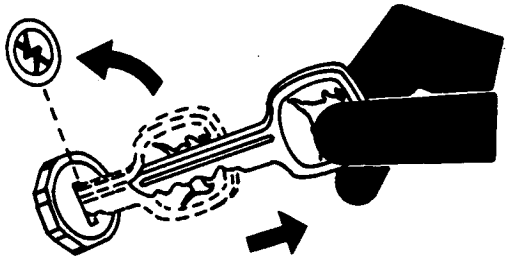
Park Machine Safely

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.



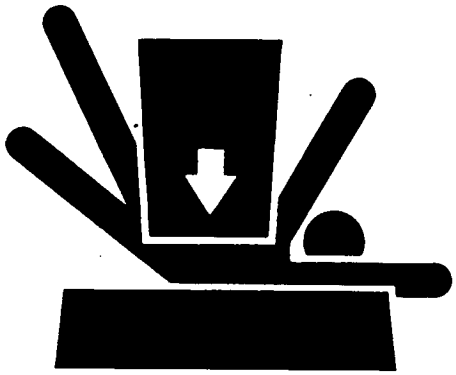
TS230 –UN–24MAY89

DX,PARK –19–04JUN90–1/1

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

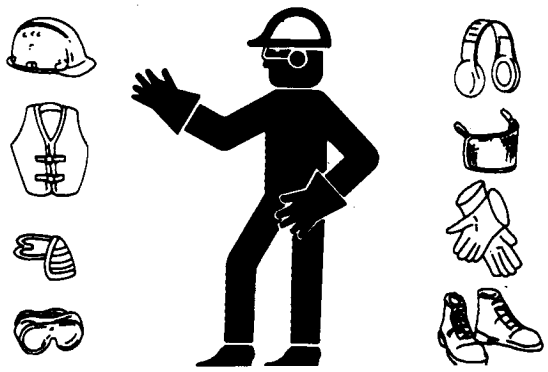
Wear Protective Clothing

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.



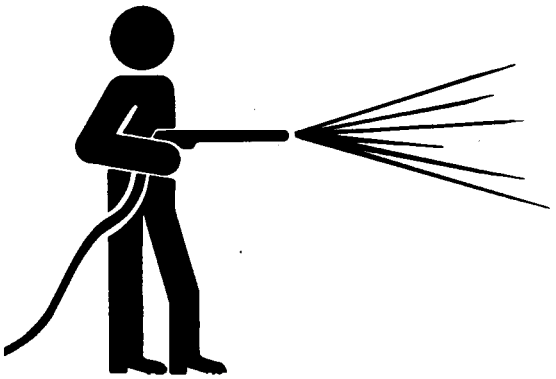
TS206 –UN–23AUG88

DX,WEAR –19–10SEP90–1/1

Work In Clean Area

Before starting a job:

- Clean work area and machine.
- Make sure you have all necessary tools to do your job.
- Have the right parts on hand.
- Read all instructions thoroughly; do not attempt shortcuts.



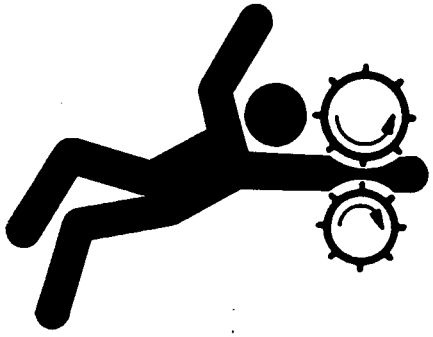
T6642EJ –UN–18OCT88

DX,CLEAN –19–04JUN90–1/1

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.



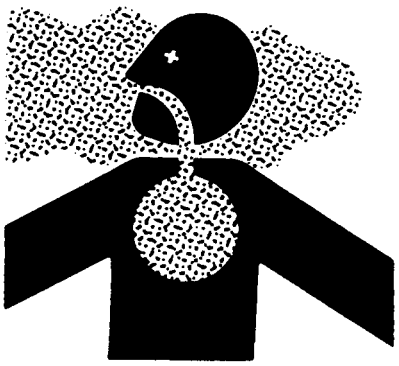
TS228 –UN–23AUG88

DX,LOOSE –19–04JUN90–1/1

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.

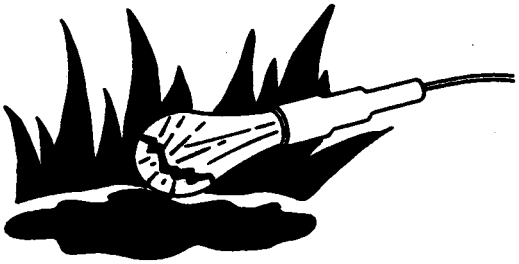


TS220 –UN–23AUG88

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

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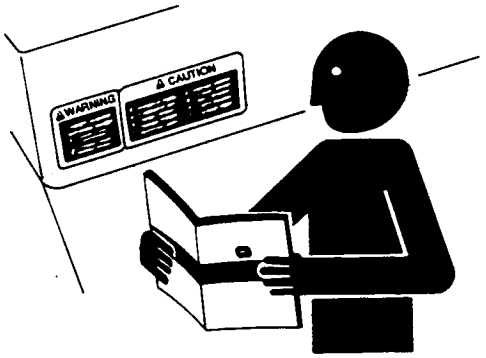
Replace Safety Signs

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



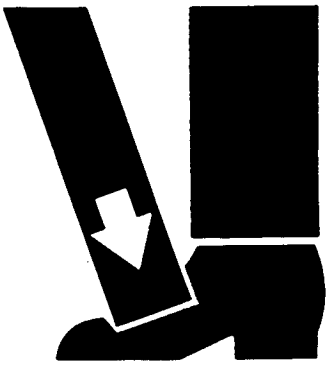
TS201 –UN–23AUG88

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

Remove Paint Before Welding or Heating

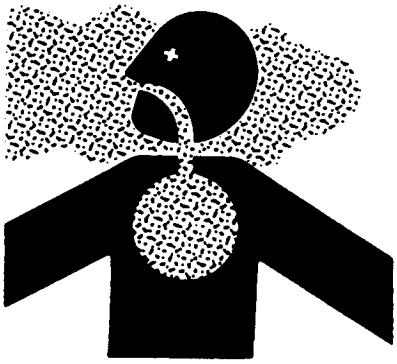
Avoid potentially toxic fumes and dust.

Hazardous fumes can be generated when paint is heated by welding, soldering, or using a torch.

Do all work outside or in a well ventilated area. Dispose of paint and solvent properly.

Remove paint before welding or heating:

- If you sand or grind paint, avoid breathing the dust. Wear an approved respirator.
- If you use solvent or paint stripper, remove stripper with soap and water before welding. Remove solvent or paint stripper containers and other flammable material from area. Allow fumes to disperse at least 15 minutes before welding or heating.



TS220 –UN–23AUG88

DX,PAINT –19–03MAR93–1/1

Avoid Heating Near Pressurized Fluid Lines

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.

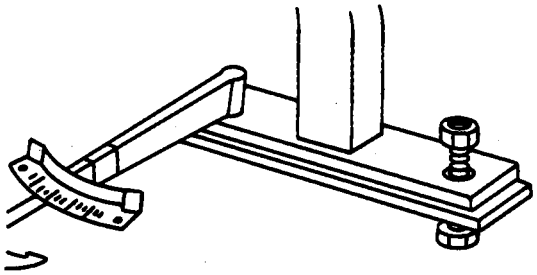
TS953 –UN–15MAY90

DX,TORCH –19–03MAR93–1/1

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.



TS212 –UN–23AUG88

DX,ROPS3 –19–03MAR93–1/1

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Practice Safe Maintenance

Understand service procedure before doing work. Keep area clean and dry.

Never lubricate, service, or adjust machine while it is moving. Keep hands, feet , and clothing from power-driven parts. Disengage all power and operate controls to relieve pressure. Lower equipment to the ground. Stop the engine. Remove the key. Allow machine to cool.

Securely support any machine elements that must be raised for service work.

Keep all parts in good condition and properly installed. Fix damage immediately. Replace worn or broken parts. Remove any buildup of grease, oil, or debris.

Disconnect battery ground cable (-) before making adjustments on electrical systems or welding on machine.

TS218 –UN–23AUG88

DX,SERV –19–03MAR93–1/1

Dispose of Waste Properly

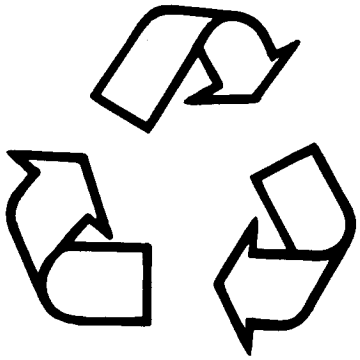
Improperly disposing of waste can threaten the environment and ecology. Potentially harmful waste used with John Deere equipment include such items as oil, fuel, coolant, brake fluid, filters, and batteries.

Use leakproof containers when draining fluids. Do not use food or beverage containers that may mislead someone into drinking from them.

Do not pour waste onto the ground, down a drain, or into any water source.

Air conditioning refrigerants escaping into the air can damage the Earth's atmosphere. Government regulations may require a certified air conditioning service center to recover and recycle used air conditioning refrigerants.

Inquire on the proper way to recycle or dispose of waste from your local environmental or recycling center, or from your John Deere dealer.



TS1133 –UN–26NOV90

DX,DRAIN –19–03MAR93–1/1

Live With Safety

Before returning machine to customer, make sure machine is functioning properly, especially the safety systems. Install all guards and shields.

TS231 –19–07OCT88

DX,LIVE –19–25SEP92–1/1

750C Series II Specifications

NOTE: Specifications and design subject to change without notice. Wherever applicable, specifications are in accordance with ICED and SAE standards. Except where otherwise noted, these specifications are based on a unit equipped with 560 mm (22 in.) grousers, roll-over protective canopy, full fuel tank, 79 kg (175 lb) operator, and standard equipment.

Net engine power is with standard equipment including air cleaner, exhaust system, alternator, and cooling fan, at standard conditions per SAE J1349 and DIN 6270B using No. 2-D fuel at 35 API gravity. No derating is required up to 3050 m (10,000 ft) altitude. Gross power is without cooling fan.

Item	Measurement	Specification
John Deere 6—Cylinder POWERTECH™ Turbocharged Diesel Engine 6068T		
Fuel Consumption, Typical	Consumption	14.4—20.8 L/h (3.8—5.5 gal/hr)
Rated Power at 2100 rpm	Power	104 kW (140 hp) SAE net horsepower 110 kW (148 hp) SAE gross horsepower
Bore and Stroke	Distance	106.4 x 127 mm (4.14 x 5 in.)
Piston	Displacement	6.785 L (414 cu in.)
Electrical System	Voltage	24-volt with 45-amp alternator
Maximum Net Torque at 1300 rpm	Torque Rise	570 N•m (420 lb-ft)
Batteries	Voltage Cold Cranking Amps Reserve Capacity	Two 12-volt 625 amps each at —18°C (0°F) 160 minutes each at —18°C (0°F)
Transmission	Speed	Infinite from 0—11 km/h (0—6.8 mph) forward and reverse
Drawbar Pull at 1.9 km/h (1.2 mph)	Force	141 kN (31,800 lb force)
Hydraulic System (Open Center)	Pressure Flow Rate	13 790 kPa (2000 psi) 144 L/min (38 gpm) at 2100 rpm

POWERTECH is a trademark of Deere & Company

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Item	Measurement	Specification
Undercarriage		
750C Track Shoes (Each Side)	Quantity	40
750C LGP Track Shoes (Each Side)	Quantity	42
750C Track Rollers	Quantity	7
750C Ground Contact Area (with 22 in. Shoes)	Area	28 955 cm^2 (4488 sq in.)
750C WT Ground Contact Area (with 34 in. Shoes)	Area	44 748 cm^2 (6936 sq in.)
750C LGP Ground Contact Area (with 34 in. Shoes)	Area	48 039 cm^2 (7446 sq in.)
750C minimum with single-bar grouser (excluding grouser height)	Clearance	371 mm (14.6 in.)
750C WT minimum with swamp shoe (including grouser height)	Clearance	437 mm (17.2 in.)
750C LT/750C WT Track	Pitch Gauge	190 mm (7.5 in.) 1880 mm (74 in.)
750 LGP Track	Pitch Gauge	190 mm (7.5 in.) 2083 mm (82 in.)
750C LT/750C WT Track Length on Ground	Distance	2591 mm (102 in.)
750 LPG Track Length on Ground	Distance	2781 mm (109.5 in.)
Ground Pressure		
750C LT Ground Pressure Semi-U Blade	Pressure	49.0 kPa (0.5 bar) (7.1 psi)
750C LT Ground Pressure PAT Blade	Pressure	51.7 kPa (0.52 bar) (7.5 psi)
750C WT Ground Pressure	Pressure	33.6 kPa (0.3 bar) (4.9 psi)
750C LGP Ground Pressure	Pressure	33.9 kPa (0.4 bar) (4.91 psi)

Continued on next page

TX,115,BG1050 –19–01OCT98–2/3

Item	Measurement	Specification
SAE Operating Weight		
750C with Semi-U Blade (High Production)	Weight	14 415 kg (31,712 lb)
750C All-Hydraulic Dozer (PAT)	Weight	15 335 kg (33,736 lb)
750C WT with Straight Blade	Weight	15 147 kg (33,324 lb)
750C WT with Semi-U Blade (High Production)	Weight	15 383 kg (33,843 lb)
750C LGP All-Hydraulic Dozer (PAT)	Weight	16 625 kg (36,576 lb)

TX,115,BG1050 –19–01OCT98–3/3

750C Series II Capacity Specifications

Item	Measurement	Specification
Drain and Refill Capacities		
Cooling System (Including Recovery Tank)	Capacity	26.5 L (7 gal)
Fuel Tank	Capacity	280 L (74 gal)
Engine Oil (Including Filter)	Capacity	19 L (5 gal)
750C LT/750C WT Inner Final Drive (Each Side)	Capacity	23.6 L (6.25 gal)
750C LGP Inner Final Drive (Each Side)	Capacity	27.8 L (7.35 gal)
Outer Final Drive (Each Side)	Capacity	12.3 L (3.25 gal)
Hydraulic Reservoir	Capacity	68 L (18 gal)
Hydrostatic Transmission	Capacity	83.3 L (22 gal)

CED,OUO1065,110 –19–05JAN00–1/1

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750C Series II General Specifications

Lubrication:

- Pressure system with full flow filters

Cooling:

- Pressured with thermostat and controlled bypass

Fan:

- Blower-type

Air Cleaner:

- Dual-stage aspirated with restriction indicator
- Dry

Transmission:

- Automatic, dual-path hydrostatic drive.
- Load sensing feature automatically adjusts speed and power to match changing load conditions.
- Dual path hydrostatic drive.
- **Live power turns:** Both tracks remain fully powered during turns. This affords greater maneuverability with larger loads and less ground disturbance. This feature also provides improved capability for working on soft ground, as well as the ability to counterbalance blade corner loads when benching, ditching or backfilling.
- **Counter-rotation:** Separate control allows the two transmissions to be driven in opposite directions, permitting spot turns with excellent maneuverability. Quick blade position changes can be made.
- **Infinite speed selection:** Infinitely variable ground speeds, from 0—11 km/h (0—6.8 mph), allow precise speed. Speed can be reduced without slowing engine rpm, so hydraulic power remains high and response time remains fast.
- **Automatic load sensing:** As a load increases and engine rpm lessens, the transmission automatically reduces ground speed to match load changes. This feature works at all throttle settings, providing full drawbar pull even at reduced engine speed.

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- **Dynamic braking:** Positive speed reduction is provided on slopes. When shifted to neutral, oil flow between the pump and motor is blocked. The crawler stops without use of the service brakes.

Steering:

- Single lever steering and direction control with decelerator or optional steering pedals and U-pattern FNR lever without decelerator, full power turn, counter-rotation and infinitely variable track speeds provide unlimited maneuverability and optimum control.
- Hydrostatic steering eliminates the need for steering clutches and steering brakes as well as the need for cross-steering when working on steep slopes.

Brakes:

- Hydrostatic (dynamic) braking stops the machine when the direction/steering control lever is moved to neutral.
- Wet-disk brakes are automatically applied when engine is stopped or manually applied with center foot pedal during normal operation.

Hydraulics:

- Open center system
- 10 micron filter in return line with bypass
- Gear-type pump

Forestry Application:

- The dozer can be equipped for forestry applications with the addition of limb risers and screens for the roll-over protective structure.

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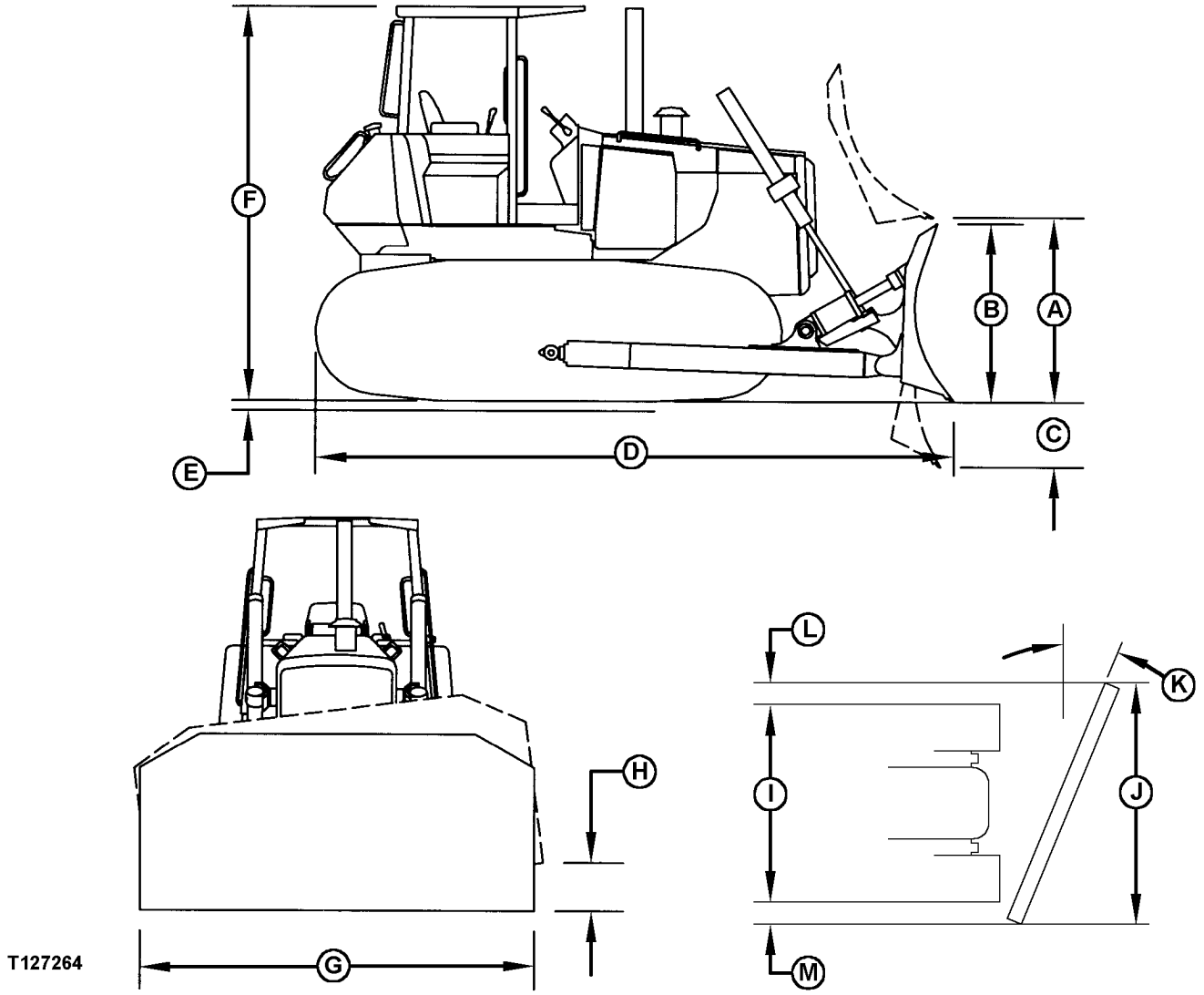
750C LT Series II Dimensions



Item	Measurement	Specification
750C LT Series II with Semi-U (High-Production) Blade:		
Blade	Capacity	4.28 m^3 (5.60 cu yd)
A—Blade Lift	Height	1072 mm (42.2 in.)
B—Blade	Height	1283 mm (50.5 in.)
C—Digging	Depth	513 mm (20.2 in.)
D—Overall Machine (with standard drawbar)	Length	5011 mm (16 ft 5 in.)

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Item	Measurement	Specification
E—Tread Depth with Single-Bar Grouser (Moderate Duty)	Depth	56 mm (2.2 in.)
E—Tread Depth with Single-Bar Grouser (Extreme Duty)	Depth	68 mm (2.7 in.)
F—Overall Machine	Height	3065 mm (10 ft 1 in.)
G—Blade	Width	3216 mm (10 ft 6.6 in.)
H— Maximum Blade Tilt	Height	700 mm (27.6 in.)
750C LT Series II All-Hydraulic Dozer (PAT)		
Blade	Capacity	3.52 m^3 (4.60 cu yd)
A—Blade Lift	Height	899 mm (35.4 in.)
B—Blade	Height	1193 mm (47 in.)
C—Digging	Depth	848 mm (33.4 in.)
D—Overall Machine (with standard drawbar)	Length	4955 mm (16 ft 3 in.)
E—Tread Depth with Single-Bar Grouser (Moderate Duty)	Depth	56 mm (2.2 in.)
E—Tread Depth with Single-Bar Grouser (Extreme Duty)	Depth	68 mm (2.7 in.)
F—Overall Machine	Height	3065 mm (10 ft 1 in.)
G—Blade	Width	3283 mm (10 ft 9.3 in.)
H— Maximum Blade Tilt	Height	413 mm (16.2 in.)
I—Width Over Track	Width	2438 mm (8 ft 0 in.)
J—Overall Blade Width (with Blade Angled)	Width	3011 mm (9 ft 10.5 in.)
K—Maximum Blade	Angle	24 degrees
L—Blade Cut Reach	Distance	89 mm (3.5 in.)

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8

Item	Measurement	Specification
M—Blade Cast Reach	Distance	325 mm (12.8 in.)
N—Cutting Edge	Angle	58 degrees

CED,OUO1065,117 –19–20JAN00–3/3

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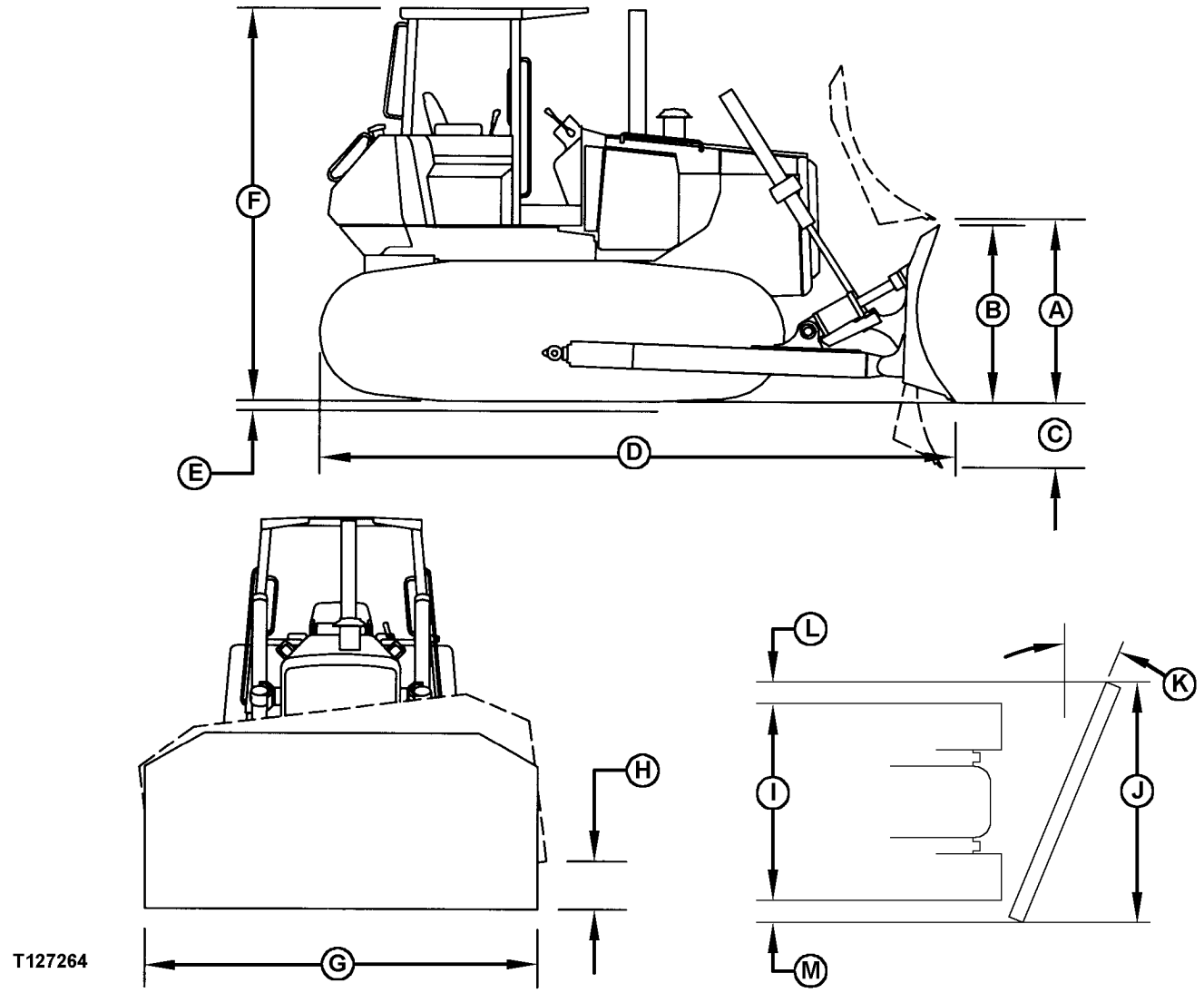
9

750C WT Series II Dimensions



Item	Measurement	Specification
750C WT Series II with Straight Blade:		
Blade	Capacity	2.48 m^3 (3.25 cu yd)
A—Blade Lift	Height	1072 mm (42.2 in.)
B—Blade	Height	976 mm (38.4 in.)
C—Digging	Depth	513 mm (20.2 in.)
D—Overall Machine	Length	4956 mm (16 ft 3 in.)

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CED,OUO1065,118 –19–20JAN00–1/2

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Item	Measurement	Specification
E—Tread Depth with Single-Bar Grouser (Moderate Duty)	Depth	56 mm (2.2 in.)
E—Tread Depth with Swamp Shoe	Depth	80 mm (3.15 in.)
F—Overall Machine	Height	3065 mm (10 ft 1 in.)
G—Blade	Width	3363 mm (11 ft)
H—Maximum Blade Tilt	Height	878 mm (34.6 in.)

Item	Measurement	Specification
750C WT Series II with Semi-U (High Profile) Blade:		
Blade	Capacity	4.28 m^3 (5.60 cu yd)
A—Blade Lift	Height	1072 mm (42.2 in.)
B—Blade	Height	1143 mm (45.0 in.)
C—Digging	Depth	513 mm (20.2 in.)
D—Overall Machine	Length	5011 mm (16 ft 5 in.)
E—Tread Depth with Single-Bar Grouser (Moderate Duty)	Depth	56 mm (2.2 in.)
E—Tread Depth with Swamp Shoe	Depth	80 mm (3.15 in.)
F—Overall Machine	Height	3065 mm (10 ft 1 in.)
G—Blade	Width	3658 mm (12 ft)
H—Maximum Blade Tilt	Height	955 mm (37.6 in.)

CED,OUO1065,118 –19–20JAN00–2/2