# 450G, 455G, 550G, 555G, 650G Crawler Repair

# TECHNICAL MANUAL 450G, 455G, 550G, 555G, 650G Crawler Repair

TM1404 14JUN11 (ENGLISH)



#### For complete service information also see:

450G, 455G, 550G, 555G, 650G	
Operation and Test (Complete)	TM1403
450G, 455G, 550G, 555G, 650G	
Repair (Complete)	TM1404

# 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.

See DB1990 Service Publications Catalog to order a Technical Manual (TM).

TX,450GIFC -19-16SEP93-1/1

#### Help!! Help!! Help!!

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THANK YOU!

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TX,INTR,RB241 -19-22JAN98-1/1

TM1404 (14JUN11) G-Series Crawlers

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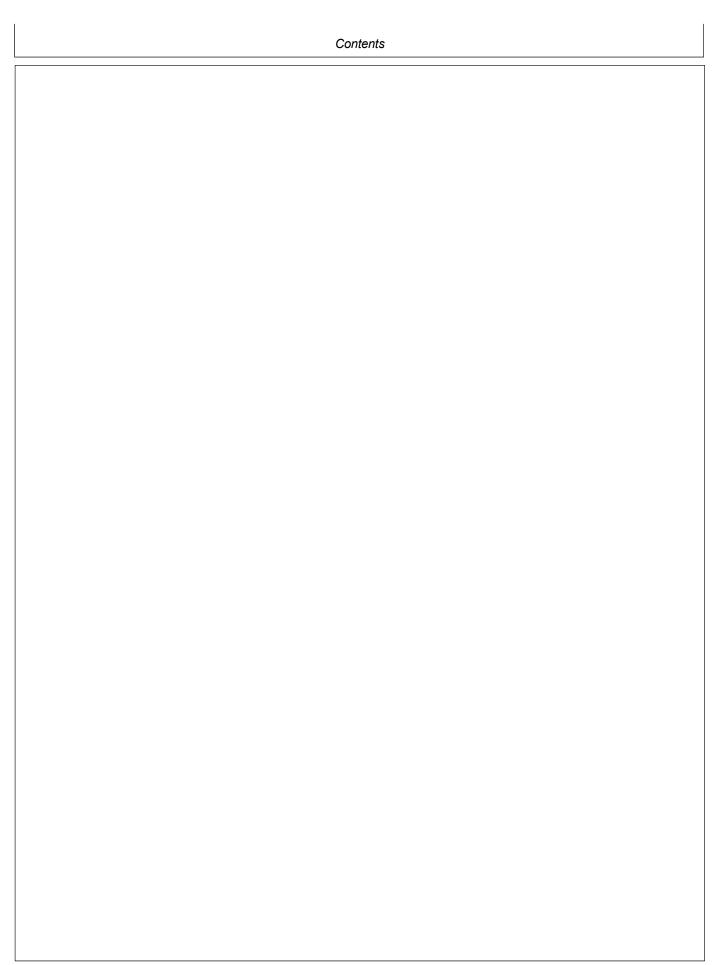
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Original Instructions. All information, illustrations and specifications in this manual are based on the latest information available at the time of publication. The right is reserved to make changes at any time without notice.

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# Section 00 General Information

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#### 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.



3227 —UN—23AUG88

DX,FLAME -19-29SEP98-1/1

#### **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 16°C (60°F).



204 —UN—23AUG88

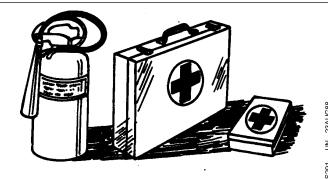
DX,SPARKS -19-03MAR93-1/1

#### **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.



DX,FIRE2 -19-03MAR93-1/1

#### **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:

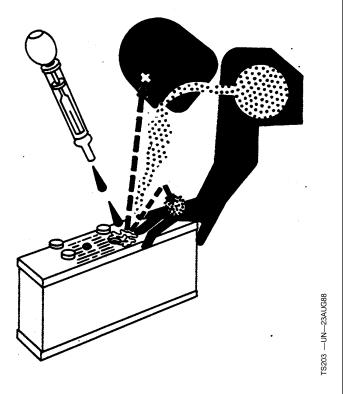
- 1. Filling batteries in a well-ventilated area.
- 2. Wearing eye protection and rubber gloves.
- 3. Avoiding breathing fumes when electrolyte is added.
- 4. Avoiding spilling or dripping electrolyte.
- 5. Use proper jump start procedure.

#### 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.
- Drink large amounts of water or milk, but do not exceed 2 L (2 quarts).
- 3. Get medical attention immediately.



DX,POISON -19-21APR93-1/1

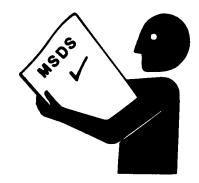
#### **Handle Chemical Products Safely**

Direct exposure to hazardous chemicals can cause serious injury. Potentially hazardous chemicals used with John Deere equipment include such items as lubricants, coolants, paints, and adhesives.

A Material Safety Data Sheet (MSDS) provides specific details on chemical products: physical and health hazards, safety procedures, and emergency response techniques.

Check the MSDS before you start any job using a hazardous chemical. That way you will know exactly what the risks are and how to do the job safely. Then follow procedures and recommended equipment.

(See your John Deere dealer for MSDS's on chemical products used with John Deere equipment.)



132 —UN—26NOV90

DX,MSDS,NA -19-03MAR93-1/1

#### **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 in English from Deere & Company Medical Department in



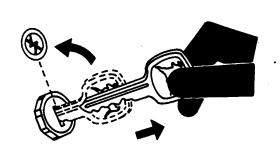
Moline, Illinois, U.S.A., by calling 1-800-822-8262 or +1 309-748-5636.

DX.FLUID -19-20AUG09-1/1

#### **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.



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—UN—24MAY89

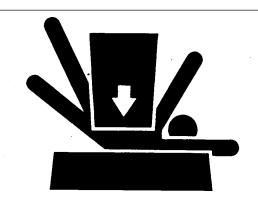
DX,PARK -19-04JUN90-1/1

#### **Support Machine Properly**

Always lower the attachment or implement to the ground before you work on the machine. If the work requires that the machine or attachment be lifted, provide secure support for them. If left in a raised position, hydraulically supported devices can settle or leak down.

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.

When implements or attachments are used with a machine, always follow safety precautions listed in the implement or attachment operator's manual.



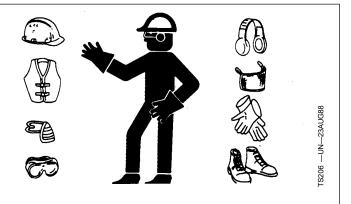
229 —UN—23AUG88

DX,LOWER -19-24FEB00-1/1

#### **Wear Protective Clothing**

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

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

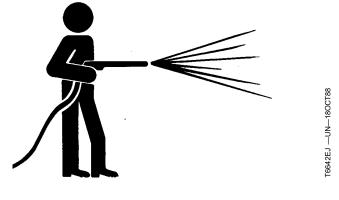


DX,WEAR2 -19-03MAR93-1/1

#### 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.

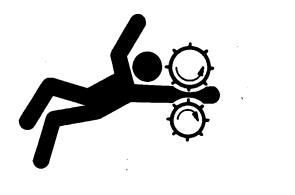


DX,CLEAN -19-04JUN90-1/1

#### **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.



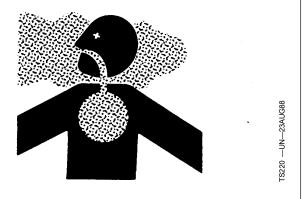
DX,LOOSE -19-04JUN90-1/1

-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 -19-17FEB99-1/1

#### **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.

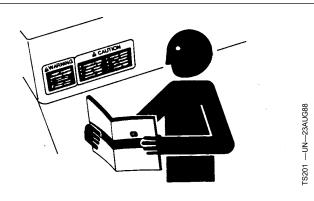


DX.LIGHT -19-04JUN90-1/1

-UN-23AUG88

#### **Replace Safety Signs**

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

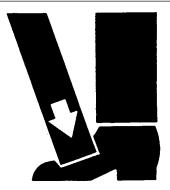


DX,SIGNS1 -19-04JUN90-1/1

#### **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.



3226 —UN—23AUG88

DX,LIFT -19-04JUN90-1/1

#### **Remove Paint Before Welding or Heating**

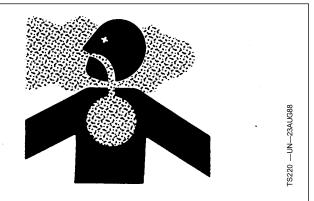
Avoid potentially toxic fumes and dust.

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

Remove paint before heating:

- Remove paint a minimum of 100 mm (4 in.) from area to be affected by heating. If paint cannot be removed, wear an approved respirator before heating or welding.
- 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.

Do not use a chlorinated solvent in areas where welding will take place.



Do all work in an area that is well ventilated to carry toxic fumes and dust away.

Dispose of paint and solvent properly.

DX,PAINT -19-24JUL02-1/1

#### **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 accidentally burst when heat goes beyond the immediate flame area.

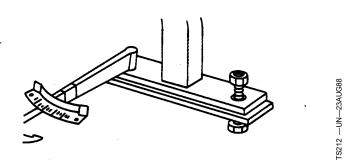


DX,TORCH -19-10DEC04-1/1

#### **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.



DX,ROPS3 -19-03MAR93-1/1

#### **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.



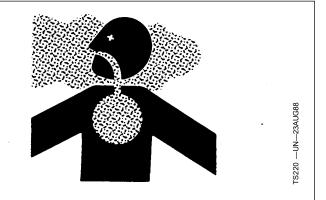
DX,RIM -19-24AUG90-1/1

#### **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.

DX,DUST -19-15MAR91-1/1

#### **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.

On self-propelled equipment, disconnect battery ground cable (-) before making adjustments on electrical systems or welding on machine.

On towed implements, disconnect wiring harnesses from tractor before servicing electrical system components or welding on machine.



DX,SERV -19-17FEB99-1/1

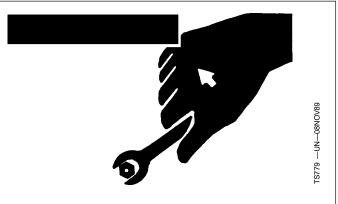
#### **Use Proper Tools**

Use tools appropriate to the work. Makeshift tools and procedures can create safety hazards.

Use power tools only to loosen threaded parts and fasteners.

For loosening and tightening hardware, use the correct size tools. DO NOT use U.S. measurement tools on metric fasteners. Avoid bodily injury caused by slipping wrenches.

Use only service parts meeting John Deere specifications.



DX,REPAIR -19-17FEB99-1/1

#### **Dispose of Waste Properly**

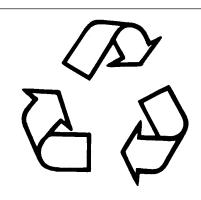
Improperly disposing of waste can threaten the environment and ecology. Potentially harmful waste used with John Deere equipment include such items as oil, fuel, coolant, brake fluid, filters, and batteries.

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.



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DX.DRAIN -19-03MAR93-1/1

#### **Live With Safety**

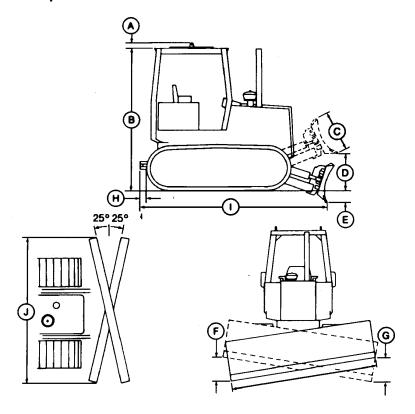
Before returning machine to customer, make sure machine is functioning properly, especially the safety systems. Install all guards and shields.



231 —19—070CTE

DX,LIVE -19-25SEP92-1/1

#### **450G Crawler Dozer Specifications**



NOTE: Specifications and design subject to change without notice. Whenever applicable, specifications are in accordance with ICED and SAE standards. Except where otherwise noted, these specifications are based on a unit with roll-over protective

structure, full fuel tank, 80 kg (175 lb) operator, and standard equipment.

Blade capacity shown is for a 2230 mm (7 ft 3.8 in.) blade. All blades are interchangeable between the 450G, 550G, and the 650G.

Item	Measurement	Specification	
Operator	Weight	80 kg (175 lb)	
Blade	Angled Width	2230 mm (7 ft 3.8 in.)	
A—Canopy extension		60 mm (2.4 in.)	
B—Canopy height		2.70 m (8 ft 10 in.)	
C—Blade height		827 mm (2 ft 8.6 in.)	
D—Blade lift height		815 mm (2 ft 8.1 in.)	
E—Digging depth		504 mm (1 ft 7.9 in.)	
F—Blade tilt (right side):			
Standard blade Wide blade		330 mm (1 ft 1 in.) 391 mm (1 ft 3.4 in.)	
G—Blade tilt (left side):			
Standard blade Wide blade		330 mm (1 ft 1 in.) 391 mm (1 ft 3.4 in.)	
H—Drawbar extension		280 mm (11 in.)	
I—Overall length		3917 mm (12 ft 10.2 in.)	
J—Blade width:			
Standard blade (angled width) Wide blade (angled width) Standard Wide		2230 mm (7 ft 3.8 in.) 2686 mm (8 ft 9.7 in.) 2464 mm (8 ft 1 in.) 2921 mm (9 ft 7 in.)	
,	Continue	ed on next page TX,115,FF1816 -19-12J	AN93-1/2

T7347AC -- UN-23JUL90

rack gauge:	1450 mm (57 in.)
Blade capacity:	
Standard blade	1.3 m <sup>3</sup> (1.63 yd <sup>3</sup> )
Wide blade	1.6 m <sup>3</sup> (2.1 yd <sup>3</sup> )
Engine: John Deere 4045D (Direct Drive only) or 4045T (S.N.—	840460) or John Deere PowerTech 4.5L engine type 4045TT061 (S.N. 840461—)
Туре	Naturally aspirated (4045D) altitude compensating turbocharge (4045T)
Bore and stroke	106.5 x 127 mm (4.19 x 5.00 in.)
No. of cylinders	4
Fuel consumption, typical (S.N. —840460)	4.9 to 8.7 L/h (5 to 2.3 gal/hr)
Fuel consumption, typical (S.N. 840461—)	6.3 to 9.5 L/h (1.7 to 2.5 gal/hr)
Compression ratio (S.N. —840460)	17.8 to 1
Compression ratio (S.N. 840461—)	17 to 1
Electrical system	12 volt (with battery disconnect switch, if equipped)
Battery	12 volt
Alternator	65 amp
SAE net power at 2100 rpm SAE gross power at 2100 rpm	52 kW (70 hp) 54.5 kW (73 hp)
Maximum net torque at 1300 rpm	309 N·m (228 lb-ft)
Drawbar	38 kW (51 hp)
Displacement (S.N. —840460)	4.524 L (276 cu in.)
Displacement (S.N. 840461—)  Transmission: Powershift (4F-4R) with torque converter or direct	4.524 L (276 cu in.)  4.5 L  t drive. Full power shift, Dura-Shift with torque converter or direct drive, designed ear to another as conditions change without stopping the machine or using a clutch
Displacement (S.N. 840461—)  Transmission: Powershift (4F-4R) with torque converter or direct and built by John Deere. You can power shift easily from one geneward control inching pedal adds versatility. Four speeds forward	4.5 L  t drive. Full power shift, Dura-Shift with torque converter or direct drive, designed ear to another as conditions change without stopping the machine or using a clutched and reverse allow the operator to match speeds to the working conditions.
Displacement (S.N. 840461—)  Transmission: Powershift (4F-4R) with torque converter or direct and built by John Deere. You can power shift easily from one genewar control inching pedal adds versatility. Four speeds forware Hydraulic pump:	t drive. Full power shift, Dura-Shift with torque converter or direct drive, designed ear to another as conditions change without stopping the machine or using a clutch rd and reverse allow the operator to match speeds to the working conditions.  Gear
Displacement (S.N. 840461—)  Transmission: Powershift (4F-4R) with torque converter or direct and built by John Deere. You can power shift easily from one ger Power control inching pedal adds versatility. Four speeds forwar Hydraulic pump:  Pressure	t drive. Full power shift, Dura-Shift with torque converter or direct drive, designed ear to another as conditions change without stopping the machine or using a clutch and reverse allow the operator to match speeds to the working conditions.  Gear  18 961 kPa (2750 psi)
Displacement (S.N. 840461—)  Transmission: Powershift (4F-4R) with torque converter or direct and built by John Deere. You can power shift easily from one gerewer control inching pedal adds versatility. Four speeds forware Hydraulic pump:  Pressure Flow at 2100 rpm	t drive. Full power shift, Dura-Shift with torque converter or direct drive, designed ear to another as conditions change without stopping the machine or using a clutch rd and reverse allow the operator to match speeds to the working conditions.  Gear
Displacement (S.N. 840461—)  Transmission: Powershift (4F-4R) with torque converter or direct and built by John Deere. You can power shift easily from one ger Power control inching pedal adds versatility. Four speeds forwar Hydraulic pump:  Pressure Flow at 2100 rpm  Steering:	4.5 L  t drive. Full power shift, Dura-Shift with torque converter or direct drive, designed ear to another as conditions change without stopping the machine or using a clutch and reverse allow the operator to match speeds to the working conditions.  Gear  18 961 kPa (2750 psi)  64 L/min (17 gpm)
Displacement (S.N. 840461—)  Transmission: Powershift (4F-4R) with torque converter or direct and built by John Deere. You can power shift easily from one ge. Power control inching pedal adds versatility. Four speeds forwar Hydraulic pump:  Pressure Flow at 2100 rpm  Steering: Clutches	4.5 L  t drive. Full power shift, Dura-Shift with torque converter or direct drive, designed ear to another as conditions change without stopping the machine or using a clutch and reverse allow the operator to match speeds to the working conditions.  Gear  18 961 kPa (2750 psi)  64 L/min (17 gpm)  Wet multiple disk
Displacement (S.N. 840461—)  Transmission: Powershift (4F-4R) with torque converter or direct and built by John Deere. You can power shift easily from one ger Power control inching pedal adds versatility. Four speeds forwar Hydraulic pump:  Pressure Flow at 2100 rpm  Steering:	4.5 L  t drive. Full power shift, Dura-Shift with torque converter or direct drive, designed ear to another as conditions change without stopping the machine or using a clutch and reverse allow the operator to match speeds to the working conditions.  Gear  18 961 kPa (2750 psi)  64 L/min (17 gpm)
Displacement (S.N. 840461—)  Transmission: Powershift (4F-4R) with torque converter or direct and built by John Deere. You can power shift easily from one gerent power control inching pedal adds versatility. Four speeds forward Hydraulic pump:  Pressure Flow at 2100 rpm  Steering:  Clutches Brakes	4.5 L  t drive. Full power shift, Dura-Shift with torque converter or direct drive, designed ear to another as conditions change without stopping the machine or using a clutch and reverse allow the operator to match speeds to the working conditions.  Gear  18 961 kPa (2750 psi)  64 L/min (17 gpm)  Wet multiple disk
Displacement (S.N. 840461—)  Transmission: Powershift (4F-4R) with torque converter or direct and built by John Deere. You can power shift easily from one gereater control inching pedal adds versatility. Four speeds forward Hydraulic pump:  Pressure Flow at 2100 rpm  Steering:  Clutches Brakes	4.5 L  t drive. Full power shift, Dura-Shift with torque converter or direct drive, designed ear to another as conditions change without stopping the machine or using a clutch and reverse allow the operator to match speeds to the working conditions.  Gear  18 961 kPa (2750 psi)  64 L/min (17 gpm)  Wet multiple disk
Displacement (S.N. 840461—)  Transmission: Powershift (4F-4R) with torque converter or direct and built by John Deere. You can power shift easily from one ge: Power control inching pedal adds versatility. Four speeds forware Hydraulic pump:  Pressure Flow at 2100 rpm  Steering:  Clutches Brakes  Undercarriage:  Grouser, closed-center Track shoes, each side	4.5 L  t drive. Full power shift, Dura-Shift with torque converter or direct drive, designed ear to another as conditions change without stopping the machine or using a clutch and reverse allow the operator to match speeds to the working conditions.  Gear  18 961 kPa (2750 psi)  64 L/min (17 gpm)  Wet multiple disk  Wet band
Displacement (S.N. 840461—)  Transmission: Powershift (4F-4R) with torque converter or direct and built by John Deere. You can power shift easily from one ge: Power control inching pedal adds versatility. Four speeds forwar Hydraulic pump:  Pressure Flow at 2100 rpm  Steering:  Clutches Brakes  Undercarriage:  Grouser, closed-center	4.5 L  t drive. Full power shift, Dura-Shift with torque converter or direct drive, designed ear to another as conditions change without stopping the machine or using a clutch and reverse allow the operator to match speeds to the working conditions.  Gear  18 961 kPa (2750 psi)  64 L/min (17 gpm)  Wet multiple disk  Wet band  406 mm (16 in.)
Displacement (S.N. 840461—)  Transmission: Powershift (4F-4R) with torque converter or direct and built by John Deere. You can power shift easily from one ge: Power control inching pedal adds versatility. Four speeds forware Hydraulic pump:  Pressure Flow at 2100 rpm  Steering:  Clutches Brakes  Undercarriage:  Grouser, closed-center Track shoes, each side	4.5 L  t drive. Full power shift, Dura-Shift with torque converter or direct drive, designed ear to another as conditions change without stopping the machine or using a clutch and reverse allow the operator to match speeds to the working conditions.  Gear  18 961 kPa (2750 psi)  64 L/min (17 gpm)  Wet multiple disk  Wet band  406 mm (16 in.)  37
Displacement (S.N. 840461—)  Transmission: Powershift (4F-4R) with torque converter or direct and built by John Deere. You can power shift easily from one gereater control inching pedal adds versatility. Four speeds forward Hydraulic pump:  Pressure Flow at 2100 rpm  Steering:  Clutches Brakes  Undercarriage:  Grouser, closed-center Track shoes, each side Ground contact area	4.5 L  t drive. Full power shift, Dura-Shift with torque converter or direct drive, designed ear to another as conditions change without stopping the machine or using a clutch and reverse allow the operator to match speeds to the working conditions.  Gear  18 961 kPa (2750 psi)  64 L/min (17 gpm)  Wet multiple disk  Wet band  406 mm (16 in.)  37  15 690 cm ² (2432 in. ²)
Displacement (S.N. 840461—)  Transmission: Powershift (4F-4R) with torque converter or direct and built by John Deere. You can power shift easily from one gerewer control inching pedal adds versatility. Four speeds forware Hydraulic pump:  Pressure Flow at 2100 rpm  Steering:  Clutches Brakes  Undercarriage:  Grouser, closed-center Track shoes, each side Ground contact area Ground pressure (direct drive) Ground pressure (torque converter)	4.5 L  t drive. Full power shift, Dura-Shift with torque converter or direct drive, designed ear to another as conditions change without stopping the machine or using a clutch and reverse allow the operator to match speeds to the working conditions.  Gear  18 961 kPa (2750 psi)  64 L/min (17 gpm)  Wet multiple disk  Wet band  406 mm (16 in.)  37  15 690 cm ² (2432 in. ²)  44.6 kPa (6.47 psi)
Displacement (S.N. 840461—)  Transmission: Powershift (4F-4R) with torque converter or direct and built by John Deere. You can power shift easily from one gereater control inching pedal adds versatility. Four speeds forward Hydraulic pump:  Pressure Flow at 2100 rpm  Steering:  Clutches Brakes  Undercarriage:  Grouser, closed-center Track shoes, each side Ground contact area Ground pressure (direct drive) Ground pressure (torque converter)	4.5 L  t drive. Full power shift, Dura-Shift with torque converter or direct drive, designed ear to another as conditions change without stopping the machine or using a clutch and reverse allow the operator to match speeds to the working conditions.  Gear  18 961 kPa (2750 psi)  64 L/min (17 gpm)  Wet multiple disk  Wet band  406 mm (16 in.)  37  15 690 cm ² (2432 in. ²)  44.6 kPa (6.47 psi)
Displacement (S.N. 840461—)  Transmission: Powershift (4F-4R) with torque converter or direct and built by John Deere. You can power shift easily from one gereater control inching pedal adds versatility. Four speeds forward Hydraulic pump:  Pressure Flow at 2100 rpm  Steering:  Clutches Brakes  Undercarriage:  Grouser, closed-center Track shoes, each side Ground contact area Ground pressure (direct drive) Ground pressure (torque converter)	4.5 L  t drive. Full power shift, Dura-Shift with torque converter or direct drive, designed ear to another as conditions change without stopping the machine or using a clutch and reverse allow the operator to match speeds to the working conditions.  Gear  18 961 kPa (2750 psi)  64 L/min (17 gpm)  Wet multiple disk  Wet band  406 mm (16 in.)  37  15 690 cm ² (2432 in. ²)  44.6 kPa (6.47 psi)  45.2 kPa (6.55 psi)
Displacement (S.N. 840461—)  Transmission: Powershift (4F-4R) with torque converter or direct and built by John Deere. You can power shift easily from one gereated power control inching pedal adds versatility. Four speeds forward Hydraulic pump:  Pressure Flow at 2100 rpm  Steering:  Clutches Brakes  Undercarriage:  Grouser, closed-center Track shoes, each side Ground contact area Ground pressure (direct drive) Ground pressure (torque converter)  Operating Weight (with ROPS):  Direct Drive	t drive. Full power shift, Dura-Shift with torque converter or direct drive, designed ear to another as conditions change without stopping the machine or using a clutch and reverse allow the operator to match speeds to the working conditions.  Gear  18 961 kPa (2750 psi)  64 L/min (17 gpm)  Wet multiple disk  Wet band  406 mm (16 in.)  37  15 690 cm ² (2432 in. ²)  44.6 kPa (6.47 psi)  45.2 kPa (6.55 psi)

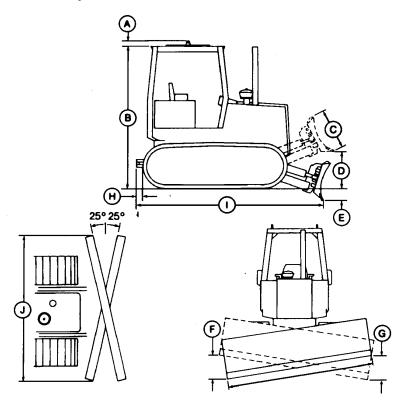
TX,115,FF1816 -19-12JAN93-2/2

# 450G Drain and Refill Capacities

	Metric	English
Fuel tank	155 L	41 gal
Engine coolant	17 L	18 qt
Engine oil, including filter change (S.N. —840460)	8.5 L	9 qt
Engine oil, including filter change (S.N. 840461— )	14 L	14.8 qt
Transmission:		
Transmission, direct drive (S.N. —790984) Transmission, direct drive (S.N. 790985—) Transmission, torque converter	80.25 L 102 L 102 L	21.2 gal add 34 L (9 gal) w/winch if equipped 27 gal add 34 L (9 gal) w/winch if equipped 27 gal add 34 L (9 gal) w/winch if equipped
Hydraulic reservoir	38 L	10 gal
Hydraulic system	55.3 L	14.6 gal
Final drive (each side)	6.6 L	7 qt

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#### 450G—LT Crawler Dozer Specifications



NOTE: Specifications and design subject to change without notice. Whenever applicable, specifications are in accordance with ICED and SAE standards. Except where otherwise noted, these specifications are based on a unit with roll-over protective

structure, full fuel tank, 80 kg (175 lb) operator, and standard equipment.

Blade capacity shown is for a 2230 mm (7 ft 3.8 in.) blade. All blades are interchangeable between the 450G, 550G, and the 650G.

Item	Measurement	Specification	
Operator	Weight	80 kg (175 lb)	
Blade	Angled Width	2230 mm (7 ft 3.	8 in.)
A—Canopy extension		60 mm (2.4 in.)	
B—Canopy height		2.70 m (8 ft 10 in.)	
C—Blade height		827 mm (2 ft 8.6 in.)	
D—Blade lift height		815 mm (2 ft 8.1 in.)	
E—Digging depth		504 mm (1 ft 7.9 in.)	
F—Blade tilt (right side):			
Standard blade Wide blade		330 mm (1 ft 1 in.) 391 mm (1 ft 3.4 in.)	
G—Blade tilt (left side):		,	
Standard blade Wide blade		330 mm (1 ft 1 in.) 391 mm (1 ft 3.4 in.)	
H—Drawbar extension		280 mm (11 in.)	
I—Overall length		3917 mm (12 ft 10.2 in.)	
J—Blade width:			
Standard blade (angled width) Wide blade (angled width) Standard Wide		2230 mm (7 ft 3.8 in.) 2686 mm (8 ft 9.7 in.) 2464 mm (8 ft 1 in.) 2921 mm (9 ft 7 in.)	
	Continu	ed on next page	TX,115,FF1816 -19-12JAN93-1/2

TM1404 (14JUN11) **00-0002-4** G-Series Crawlers

Track gauge:	1450 mm (57 in.)
Blade capacity:	
Standard blade	1.3 m <sup>3</sup> (1.63 yd <sup>3</sup> )
Wide blade	1.6 m <sup>3</sup> (2.1 yd <sup>3</sup> )
Engine: John Deere 4045D (Direct Drive only) or 4045T (S.N. —840	0460) or John Deere PowerTech 4.5L engine type 4045TT061 (S.N. 840461—)
Туре	Naturally aspirated (4045D) or altitute compensating turbocharge (4045T)
Bore and stroke	106.5 x 127 mm (4.19 x 5.00 in.)
No. of cylinders	4
Fuel consumption, typical (S.N. —840460)	4.9 to 8.7 L/h (5 to 2.3 gal/hr)
Fuel consumption, typical (S.N. 840461—)	6.3 to 9.5 L/h (1.7 to 2.5 gal/hr)
Compression ratio (S.N. —840460)	17.8 to 1
Compression ratio (S.N. 840461—)	17 to 1
Electrical system	12 volt (with battery disconnect switch, if equipped)
Battery	12 volt
Alternator (S.N. —840460)	65 amp
Alternator (S.N. 840461— )	95 amp
SAE net power at 2100 rpm SAE gross power at 2100 rpm	52 kW (70 hp) 54.5 kW (73 hp)
Maximum net torque at 1300 rpm	309 N⋅m (228 lb-ft)
Drawbar	38 kW (51 hp)
Displacement (S.N. —840460)	4.524 L (276 cu in.)
Displacement (S.N. —840460)  Displacement (S.N. 840461— )  Transmission: Powershift (4F-4R) with torque converter or direct dri	4.524 L (276 cu in.) 4.5 L  Tive. Full power shift. Dura-Shift with torque converter or direct drive, designed.
Displacement (S.N. 840461— )  Transmission: Powershift (4F-4R) with torque converter or direct driand built by John Deere. You can power shift easily from one gear to Power control inching pedal adds versatility. Four speeds forward a	4.5 L rive. Full power shift, Dura-Shift with torque converter or direct drive, designed
Displacement (S.N. 840461—)  Transmission: Powershift (4F-4R) with torque converter or direct driand built by John Deere. You can power shift easily from one gear to Power control inching pedal adds versatility. Four speeds forward a	4.5 L  rive. Full power shift, Dura-Shift with torque converter or direct drive, designed to another as conditions change without stopping the machine or using a clutch and reverse allow the operator to match speeds to the working conditions.
Displacement (S.N. 840461—)  Transmission: Powershift (4F-4R) with torque converter or direct driand built by John Deere. You can power shift easily from one gear to Power control inching pedal adds versatility. Four speeds forward a Hydraulic pump:	4.5 L  rive. Full power shift, Dura-Shift with torque converter or direct drive, designed to another as conditions change without stopping the machine or using a clutch and reverse allow the operator to match speeds to the working conditions.  Gear
Displacement (S.N. 840461— )  Transmission: Powershift (4F-4R) with torque converter or direct driand built by John Deere. You can power shift easily from one gear to Power control inching pedal adds versatility. Four speeds forward and Hydraulic pump:  Pressure  Flow at 2100 rpm	4.5 L  rive. Full power shift, Dura-Shift with torque converter or direct drive, designed to another as conditions change without stopping the machine or using a clutch and reverse allow the operator to match speeds to the working conditions.  Gear  18 961 kPa (2750 psi)
Displacement (S.N. 840461—)  Transmission: Powershift (4F-4R) with torque converter or direct driand built by John Deere. You can power shift easily from one gear to Power control inching pedal adds versatility. Four speeds forward and Hydraulic pump:  Pressure Flow at 2100 rpm  Steering:	4.5 L  rive. Full power shift, Dura-Shift with torque converter or direct drive, designed to another as conditions change without stopping the machine or using a clutch and reverse allow the operator to match speeds to the working conditions.  Gear  18 961 kPa (2750 psi)  64 L/min (17 gpm)
Displacement (S.N. 840461—)  Transmission: Powershift (4F-4R) with torque converter or direct driand built by John Deere. You can power shift easily from one gear to Power control inching pedal adds versatility. Four speeds forward a Hydraulic pump:  Pressure Flow at 2100 rpm	4.5 L  rive. Full power shift, Dura-Shift with torque converter or direct drive, designed to another as conditions change without stopping the machine or using a clutch and reverse allow the operator to match speeds to the working conditions.  Gear  18 961 kPa (2750 psi)
Displacement (S.N. 840461—)  Transmission: Powershift (4F-4R) with torque converter or direct driand built by John Deere. You can power shift easily from one gear to Power control inching pedal adds versatility. Four speeds forward and Hydraulic pump:  Pressure Flow at 2100 rpm  Steering:  Clutches Brakes	4.5 L  ive. Full power shift, Dura-Shift with torque converter or direct drive, designed to another as conditions change without stopping the machine or using a clutch and reverse allow the operator to match speeds to the working conditions.    Gear
Displacement (S.N. 840461—)  Transmission: Powershift (4F-4R) with torque converter or direct driand built by John Deere. You can power shift easily from one gear to Power control inching pedal adds versatility. Four speeds forward and Hydraulic pump:  Pressure Flow at 2100 rpm  Steering:  Clutches Brakes  Undercarriage:	4.5 L  ive. Full power shift, Dura-Shift with torque converter or direct drive, designed to another as conditions change without stopping the machine or using a clutch and reverse allow the operator to match speeds to the working conditions.  Gear  18 961 kPa (2750 psi)  64 L/min (17 gpm)  Wet multiple disk  Wet band
Displacement (S.N. 840461—)  Transmission: Powershift (4F-4R) with torque converter or direct driand built by John Deere. You can power shift easily from one gear to Power control inching pedal adds versatility. Four speeds forward and Hydraulic pump:  Pressure Flow at 2100 rpm  Steering:  Clutches Brakes  Undercarriage:  Grouser, closed-center	4.5 L  ive. Full power shift, Dura-Shift with torque converter or direct drive, designed to another as conditions change without stopping the machine or using a clutch and reverse allow the operator to match speeds to the working conditions.  Gear  18 961 kPa (2750 psi)  64 L/min (17 gpm)  Wet multiple disk  Wet band  406 mm (16 in.)
Displacement (S.N. 840461—)  Transmission: Powershift (4F-4R) with torque converter or direct dried built by John Deere. You can power shift easily from one gear to Power control inching pedal adds versatility. Four speeds forward and Hydraulic pump:  Pressure Flow at 2100 rpm  Steering:  Clutches Brakes  Undercarriage:  Grouser, closed-center Track shoes, each side	4.5 L  ive. Full power shift, Dura-Shift with torque converter or direct drive, designed to another as conditions change without stopping the machine or using a clutch and reverse allow the operator to match speeds to the working conditions.  Gear  18 961 kPa (2750 psi)  64 L/min (17 gpm)  Wet multiple disk  Wet band  406 mm (16 in.)  40
Displacement (S.N. 840461—)  Transmission: Powershift (4F-4R) with torque converter or direct driend built by John Deere. You can power shift easily from one gear to Power control inching pedal adds versatility. Four speeds forward and Hydraulic pump:  Pressure Flow at 2100 rpm  Steering:  Clutches Brakes  Undercarriage:  Grouser, closed-center Track shoes, each side Ground contact area	4.5 L  4.5 L  4.5 L  A.5 L  A.5 L  A.5 L  A.6 A Carrive. Full power shift, Dura-Shift with torque converter or direct drive, designed to another as conditions change without stopping the machine or using a clutch and reverse allow the operator to match speeds to the working conditions.  Gear  A.6 B A Carrive A Carr
Displacement (S.N. 840461—)  Transmission: Powershift (4F-4R) with torque converter or direct driand built by John Deere. You can power shift easily from one gear to Power control inching pedal adds versatility. Four speeds forward and Hydraulic pump:  Pressure Flow at 2100 rpm  Steering:  Clutches Brakes  Undercarriage:  Grouser, closed-center Track shoes, each side Ground contact area Ground pressure (direct drive)	4.5 L  4.5 L  4.5 L  4.5 L  A.5 L  A.
Displacement (S.N. 840461—)  Transmission: Powershift (4F-4R) with torque converter or direct driend built by John Deere. You can power shift easily from one gear to Power control inching pedal adds versatility. Four speeds forward and Hydraulic pump:  Pressure Flow at 2100 rpm  Steering:  Clutches Brakes  Undercarriage:  Grouser, closed-center Track shoes, each side Ground contact area Ground pressure (direct drive) Ground pressure (torque converter)	4.5 L  4.5 L  ive. Full power shift, Dura-Shift with torque converter or direct drive, designed to another as conditions change without stopping the machine or using a clutch and reverse allow the operator to match speeds to the working conditions.  Gear  18 961 kPa (2750 psi)  64 L/min (17 gpm)  Wet multiple disk  Wet band  406 mm (16 in.)  40  17 632 cm ² (2733 in. ²)
Displacement (S.N. 840461—)  Transmission: Powershift (4F-4R) with torque converter or direct driend built by John Deere. You can power shift easily from one gear to Power control inching pedal adds versatility. Four speeds forward and Hydraulic pump:  Pressure Flow at 2100 rpm  Steering:  Clutches Brakes  Undercarriage:  Grouser, closed-center Track shoes, each side Ground contact area Ground pressure (direct drive) Ground pressure (torque converter)	4.5 L  ive. Full power shift, Dura-Shift with torque converter or direct drive, designed to another as conditions change without stopping the machine or using a clutch and reverse allow the operator to match speeds to the working conditions.  Gear  18 961 kPa (2750 psi)  64 L/min (17 gpm)  Wet multiple disk  Wet band  406 mm (16 in.)  40  17 632 cm <sup>2</sup> (2733 in. <sup>2</sup> )  41.1 kPa (5.97 psi)  41.7 kPa (6.04 psi)
Displacement (S.N. 840461—)  Transmission: Powershift (4F-4R) with torque converter or direct driend built by John Deere. You can power shift easily from one gear to Power control inching pedal adds versatility. Four speeds forward at Hydraulic pump:  Pressure Flow at 2100 rpm  Steering:  Clutches Brakes  Undercarriage:  Grouser, closed-center Track shoes, each side Ground contact area Ground pressure (direct drive) Ground pressure (torque converter)	4.5 L  ive. Full power shift, Dura-Shift with torque converter or direct drive, designed to another as conditions change without stopping the machine or using a clutch and reverse allow the operator to match speeds to the working conditions.  Gear  18 961 kPa (2750 psi)  64 L/min (17 gpm)  Wet multiple disk  Wet band  406 mm (16 in.)  40  17 632 cm <sup>2</sup> (2733 in. <sup>2</sup> )  41.1 kPa (5.97 psi)

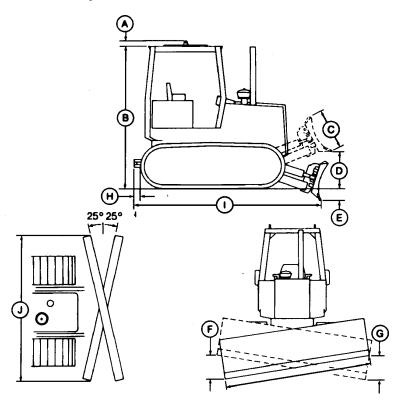
TM1404 (14JUN11) 00-0002-5 G-Series Crawlers

# 450G—LT Drain and Refill Capacities

	Metric	English
Fuel tank	155 L	41 gal
Engine coolant	17 L	18 qt
Engine oil, including filter change (S.N. —840460)	8.5 L	9 qt
Engine oil, including filter change (S.N. 840461— )	14 L	14.8 qt
Transmission:	<u> </u>	,
Transmission, direct drive (S.N. —790984) Transmission, direct drive (S.N.790985—) Transmission, torque converter	80.25 L 102 L 102 L	21.2 gal add 34 L (9 gal) w/winch if equipped 27 gal add 34 L (9 gal) w/winch if equipped 27 gal add 34 L (9 gal) w/winch if equipped
Hydraulic reservoir	38 L	10 gal
Hydraulic system	55.3 L	14.6 gal
Final drive (each side)	8.5 L	9 qt

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#### 450G—LGP Crawler Dozer Specifications



NOTE: Specifications and design subject to change without notice. Whenever applicable, specifications are in accordance with ICED and SAE standards. Except where otherwise noted, these specifications are based on a unit with roll-over protective

structure, full fuel tank, 80 kg (175 lb) operator, and standard equipment.

Blade capacity shown is for a 2230 mm (7 ft 3.8 in.) blade. All blades are interchangeable between the 450G, 550G, and the 650G.

Item	Measurement	Specification	
Operator	Weight	80 kg (175 lb)	
Blade	Angled Width	2230 mm (7 ft 3.8 in.)	
A—Canopy extension		60 mm (2.4 in.)	
B—Canopy height		2.70 m (8 ft 10 in.)	
C—Blade height		827 mm (2 ft 8.6 in.)	
D—Blade lift height		815 mm (2 ft 8.1 in.)	
E—Digging depth		504 mm (1 ft 7.9 in.)	
F—Blade tilt (right side):			
Standard blade Wide blade		330 mm (1 ft 1 in.) 391 mm (1 ft 3.4 in.)	
G—Blade tilt (left side):			
Standard blade Wide blade		330 mm (1 ft 1 in.) 391 mm (1 ft 3.4 in.)	
H—Drawbar extension		280 mm (11 in.)	
I—Overall length		3917 mm (12 ft 10.2 in.)	
J—Blade width:			
Standard blade (angled width) Wide blade (angled width) Standard Wide		2230 mm (7 ft 3.8 in.) 2686 mm (8 ft 9.7 in.) 2464 mm (8 ft 1 in.) 2921 mm (9 ft 7 in.)	
L	Continu	ed on next page TX.115.FF1816 -19	-12JAN93-1/

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Frack gauge:	1450 mm (57 in.)	
Blade capacity:		
Standard blade	1.3 m <sup>3</sup> (1.63 yd <sup>3</sup> )	
Wide blade	1.6 m <sup>3</sup> (2.1 yd <sup>3</sup> )	
Engine: John Deere 4045D (Direct Drive only) or 4045T (S.N.	. —840460) or John Deere PowerTech 4.5L engine type 4045TT061 (S.N. 840461—)	
Type Naturally aspirated or altitude compensating turbocha		
Bore and stroke	106.5 x 127 mm (4.19 x 5.00 in.)	
No. of cylinders	4	
Fuel consumption, typical (S.N. —840460)	4.9 to 8.7 L/h (5 to 2.3 gal/hr)	
Fuel consumption, typical (S.N. 840461—)	6.3 to 9.5 L/h (1.7 to 2.5 gal/hr)	
Compression ratio (S.N. —840460)	17.8 to 1	
Compression ratio (S.N. 840461— )	17 to 1	
Electrical system	12 volt (with battery disconnect switch, if equipped)	
Battery	12 volt	
Alternator	65 amp	
SAE net power at 2100 rpm	52 kW (70 hp)	
SAE gross power at 2100 rpm	54.5 kW (73 hp)	
Maximum net torque at 1300 rpm	309 N·m (228 lb-ft)	
Drawbar	38 kW (51 hp)	
Displacement (S.N. —840460)	4.524 L (276 cu in.)	
Displacement (S.N. 840461— )  Transmission: Powershift (4F-4R) with torque converter or di	4.5 L	
Transmission: Powershift (4F-4R) with torque converter or di and built by John Deere. You can power shift easily from one Power control inching pedal adds versatility. Four speeds for	irect drive. Full power shift, Dura-Shift with torque converter or direct drive, designed a gear to another as conditions change without stopping the machine or using a clutch ward and reverse allow the operator to match speeds to the working conditions.	
Transmission: Powershift (4F-4R) with torque converter or di and built by John Deere. You can power shift easily from one Power control inching pedal adds versatility. Four speeds for Hydraulic pump:	irect drive. Full power shift, Dura-Shift with torque converter or direct drive, designed a gear to another as conditions change without stopping the machine or using a clutch ward and reverse allow the operator to match speeds to the working conditions.  Gear	
Transmission: Powershift (4F-4R) with torque converter or di and built by John Deere. You can power shift easily from one Power control inching pedal adds versatility. Four speeds for Hydraulic pump:  Pressure	irect drive. Full power shift, Dura-Shift with torque converter or direct drive, designed e gear to another as conditions change without stopping the machine or using a clutch ward and reverse allow the operator to match speeds to the working conditions.  Gear  18 961 kPa (2750 psi)	
Transmission: Powershift (4F-4R) with torque converter or di and built by John Deere. You can power shift easily from one Power control inching pedal adds versatility. Four speeds for Hydraulic pump:	irect drive. Full power shift, Dura-Shift with torque converter or direct drive, designed a gear to another as conditions change without stopping the machine or using a clutch ward and reverse allow the operator to match speeds to the working conditions.  Gear	
Transmission: Powershift (4F-4R) with torque converter or di and built by John Deere. You can power shift easily from one Power control inching pedal adds versatility. Four speeds for Hydraulic pump:  Pressure Flow at 2100 rpm	irect drive. Full power shift, Dura-Shift with torque converter or direct drive, designed e gear to another as conditions change without stopping the machine or using a clutch ward and reverse allow the operator to match speeds to the working conditions.  Gear  18 961 kPa (2750 psi)	
Transmission: Powershift (4F-4R) with torque converter or di and built by John Deere. You can power shift easily from one Power control inching pedal adds versatility. Four speeds for Hydraulic pump:  Pressure	irect drive. Full power shift, Dura-Shift with torque converter or direct drive, designed e gear to another as conditions change without stopping the machine or using a clutch ward and reverse allow the operator to match speeds to the working conditions.  Gear  18 961 kPa (2750 psi)	
Transmission: Powershift (4F-4R) with torque converter or di and built by John Deere. You can power shift easily from one Power control inching pedal adds versatility. Four speeds for Hydraulic pump:  Pressure Flow at 2100 rpm  Steering:	irect drive. Full power shift, Dura-Shift with torque converter or direct drive, designed e gear to another as conditions change without stopping the machine or using a clutch ward and reverse allow the operator to match speeds to the working conditions.  Gear  18 961 kPa (2750 psi)  64 L/min (17 gpm)	
Transmission: Powershift (4F-4R) with torque converter or di and built by John Deere. You can power shift easily from one Power control inching pedal adds versatility. Four speeds for Hydraulic pump:  Pressure Flow at 2100 rpm  Steering: Clutches Brakes	irect drive. Full power shift, Dura-Shift with torque converter or direct drive, designed a gear to another as conditions change without stopping the machine or using a clutch ward and reverse allow the operator to match speeds to the working conditions.    Gear	
Transmission: Powershift (4F-4R) with torque converter or di and built by John Deere. You can power shift easily from one Power control inching pedal adds versatility. Four speeds for Hydraulic pump:  Pressure Flow at 2100 rpm  Steering: Clutches Brakes  Undercarriage:	irect drive. Full power shift, Dura-Shift with torque converter or direct drive, designed e gear to another as conditions change without stopping the machine or using a clutch ward and reverse allow the operator to match speeds to the working conditions.    Gear	
Transmission: Powershift (4F-4R) with torque converter or di and built by John Deere. You can power shift easily from one Power control inching pedal adds versatility. Four speeds for Hydraulic pump:  Pressure Flow at 2100 rpm  Steering: Clutches Brakes  Undercarriage: Grouser, closed-center	irect drive. Full power shift, Dura-Shift with torque converter or direct drive, designed a gear to another as conditions change without stopping the machine or using a clutch ward and reverse allow the operator to match speeds to the working conditions.    Gear	
Transmission: Powershift (4F-4R) with torque converter or di and built by John Deere. You can power shift easily from one Power control inching pedal adds versatility. Four speeds for Hydraulic pump:  Pressure Flow at 2100 rpm  Steering: Clutches Brakes  Undercarriage: Grouser, closed-center Track shoes, each side	irect drive. Full power shift, Dura-Shift with torque converter or direct drive, designed a gear to another as conditions change without stopping the machine or using a clutch ward and reverse allow the operator to match speeds to the working conditions.    Gear	
Transmission: Powershift (4F-4R) with torque converter or di and built by John Deere. You can power shift easily from one Power control inching pedal adds versatility. Four speeds for Hydraulic pump:  Pressure Flow at 2100 rpm  Steering: Clutches Brakes  Undercarriage: Grouser, closed-center Track shoes, each side Ground contact area	irect drive. Full power shift, Dura-Shift with torque converter or direct drive, designed e gear to another as conditions change without stopping the machine or using a clutch ward and reverse allow the operator to match speeds to the working conditions.    Gear	
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Transmission: Powershift (4F-4R) with torque converter or di and built by John Deere. You can power shift easily from one Power control inching pedal adds versatility. Four speeds for Hydraulic pump:  Pressure Flow at 2100 rpm  Steering: Clutches Brakes  Undercarriage: Grouser, closed-center Track shoes, each side Ground contact area Ground pressure (direct drive) Ground pressure (torque converter)	irect drive. Full power shift, Dura-Shift with torque converter or direct drive, designed e gear to another as conditions change without stopping the machine or using a clutch ward and reverse allow the operator to match speeds to the working conditions.    Gear	
Transmission: Powershift (4F-4R) with torque converter or di and built by John Deere. You can power shift easily from one Power control inching pedal adds versatility. Four speeds for Hydraulic pump:  Pressure Flow at 2100 rpm  Steering: Clutches Brakes  Undercarriage: Grouser, closed-center Track shoes, each side Ground contact area Ground pressure (direct drive) Ground pressure (torque converter)  Operating Weight (with ROPS):	irect drive. Full power shift, Dura-Shift with torque converter or direct drive, designed e gear to another as conditions change without stopping the machine or using a clutch ward and reverse allow the operator to match speeds to the working conditions.  Gear  18 961 kPa (2750 psi)  64 L/min (17 gpm)  Wet multiple disk  Wet band  610 mm (24 in.)  40  26 445 cm <sup>2</sup> (4099 in. <sup>2</sup> )  29.0 kPa (4.2 psi)  29.3 kPa (4.25 psi)	
Transmission: Powershift (4F-4R) with torque converter or di and built by John Deere. You can power shift easily from one Power control inching pedal adds versatility. Four speeds for Hydraulic pump:  Pressure Flow at 2100 rpm  Steering:  Clutches Brakes  Undercarriage:  Grouser, closed-center Track shoes, each side Ground contact area Ground pressure (direct drive) Ground pressure (torque converter)	irect drive. Full power shift, Dura-Shift with torque converter or direct drive, designed e gear to another as conditions change without stopping the machine or using a clutch ward and reverse allow the operator to match speeds to the working conditions.    Gear	

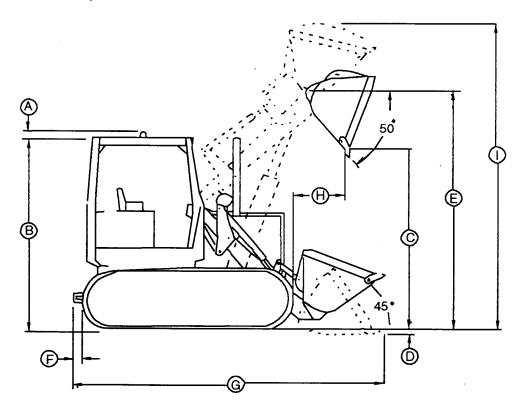
TM1404 (14JUN11) G-Series Crawlers PN=23 00-0002-8

# 450G—LGP Drain and Refill Capacities

	Metric	English
Fuel tank	155 L	41 gal
Engine coolant	17 L	18 qt
Engine oil, including filter change (S.N. —840460)	8.5 L	9 qt
Engine oil, including filter change (S.N. 840461—)	14 L	14.8 qt
Transmission:	<u> </u>	·
Transmission, direct drive (S.N. —790984) Transmission, direct drive (S.N.790985—) Transmission, torque converter	80.25 L 102 L 102 L	21.2 gal add 34 L (9 gal) w/winch if equipped 27 gal add 34 L (9 gal) w/winch if equipped 27 gal add 34 L (9 gal) w/winch if equipped
Hydraulic reservoir	38 L	10 gal
Hydraulic system	55.3 L	14.6 gal
Final drive (each side)	8.5 L	9 qt

TX,115,FF1917 -19-08OCT93-1/1

## **455G Crawler Loader 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 machine with roll-over protective structure, full fuel tank, 80 kg (175 lb) operator, and standard equipment.

ItemMeasurementSpecificationOperatorWeight80 kg (175 lb)

	Standard Track	Wide-Track	Multipurpose
A—Canopy top	60 mm (2.4 in.)	60 mm (2.4 in.)	60 mm (2.4 in.)
B—Overall height:			
Standard height ROPS Low-profile ROPS Cab	2708 mm (106.6 in.) 2588 mm (101.9 in.) 2769 mm (109 in.)	2708 mm (106.6 in.) 2588 mm (101.9 in.) 2769 mm (109 in.)	2708 mm (106.6 in.) 2588 mm (101.9 in.) 2769 mm (109 in.)
C—Dump clearance, maximum height (45° discharge)	2620 mm (103.1 in.)	2635 mm (103.7 in.)	2485 mm (97.8 in.)
D—Digging depth	135 mm (5.3 in.)	135 mm (5.3 in.)	135 mm (5.3 in.)
E—Height to hinge pin	3251 mm (128 in.)	3251 mm (128 in.)	3251 mm (128 in.)
F—Tow bar	533 mm (1 ft 9 in.)	533 mm (1 ft 9 in.)	533 mm (1 ft 9 in.)
G <sup>a</sup> —Overall length	4564 mm (179.7 in.)	4448 mm (175.1 in.)	4638 mm (182.6 in.)
H—Reach at max height (45°discharge)	871 mm (34.3 in.)	773 mm (30.4 in.)	880 mm (34.6 in.)
I—Maximum operating height	4285 mm (168.7 in.)	4169 mm (164.1 in.)	4304 mm (169.4 in.)
Track gauge:	<u>'</u>	<u>'</u>	1
Standard Track Wide Track	1450 mm (57 in.) 1727 mm (68 in.)		

<sup>a</sup>Includes 2 counterweights. Each counterweight is 50.5 mm (2 in.) thick.

Engine:		
Type (S.N. —840460)	John Deere 4045T and 4045D	
Type (S.N. 840461—)	John Deere 4.5 L engine type 4045TT067	
	Continued on next page	TX,9000,RB178 -19-14JUN11-1

Rated power at 2100 rpm	SAE net 52.2 kW (70 hp) SAE gross 54.5 kW (73 hp)
Bore and stroke	106.5 x 127 mm (4.19 x 5.00 in.)
No. of cylinders	4
Displacement (S.N. —840460)	4.524 L (276 cu in.)
Displacement (S.N. 840461—)	4.5 L
Compression ratio (S.N. —840460)	16.2 to 1
Compression ratio (S.N. 840461—)	17 to 1
Electrical system	12 volt (with battery disconnect switch if equipped)
Alternator	65 amp
Maximum net torque at 1300 rpm	309 N·m (250 lb-ft)
Cooling system pressure	69 kPa (10 psi)

Transmission: Full power shift, Dura-Shift direct drive transmission is designed and built by John Deere. You can power shift easily from one gear to another as conditions change without stopping the machine or using a clutch. Power control inching pedal adds versatility. Four speeds forward and reverse allow the operator to match speeds to the working conditions.

Hydrau	Hydraulics:		
Pump Gear		Gear	
	Pressure	17 927 kPa (2600 psi)	
Flow at 2100 rpm 118 L/min (31 gpm)		118 L/min (31 gpm)	

Cylinde	Cylinders:		
Boom (bore x stroke) 100 mm (3.93 in.) x 827 mm (32.55 in.)		100 mm (3.93 in.) x 827 mm (32.55 in.)	
	Bucket (bore x stroke)	90 mm (3.5 in.) x 744 mm (29.30 in.)	
	Cylinder rod dia.	50 mm (1.96 in.)	

Steeri	Steering:		
	Clutches Wet multiple disks		
	Brakes Wet band		

Undercarriage:			
Standard Track:			
Two-bar grouser, closed-center	Two-bar grouser, closed-center 356 mm (14 in.)		
Track shoes, each side	37		
Ground clearance	330 mm (13 in.)		
No. of track rollers	5		
Ground contact area	13 729 cm <sup>2</sup> (2128 in. <sup>2</sup> )		
Ground pressure, Direct Drive	60.1 kPa (8.71 psi)		
Ground pressure, Torque Converter	60.7 kPa (8.8 psi)		
Carrier roller	1		
Wide Track:	·		
Two-bar grouser, closed center	533 mm (21 in.)		
Track shoes, each side	37		
Ground clearance	330 mm (13 in.)		
No. of track rollers	5		
Ground contact area	20 595 cm <sup>2</sup> (3192 in. <sup>2</sup> )		
Ground pressure, Direct Drive	41.8 kPa (6.06 psi)		
Ground pressure, Torque Converter	42.2 kPa (6.12 psi)		
Carrier roller	1		

TX,9000,RB178 -19-14JUN11-2/2

## 455G Crawler Loader Specifications—cont.

	G	General Purpose		
Bucket Type	Wide Track <sup>a</sup>	Standard	Multipurpose <sup>b</sup>	
Capacity, heaped, SAE	1.0 m <sup>3</sup> (1.3 cu yd)	1.0 m <sup>3</sup> (1.3 cu yd)	1.0 m <sup>3</sup> (1.3 cu yd)	
Capacity, struck, SAE	0.79 m <sup>3</sup> (1.03 cu yd)	0.80 m <sup>3</sup> (1.05 cu yd)	0.80 m <sup>3</sup> (1.05 cu yd)	
Bucket width	2.4 m (92.1 in.)	1.91 m (75.4 in.)	1.90 m (74.8 in.)	
Bucket weight, w/teeth	546 kg (1204 lb)	477 kg (1053 lb)	989 kg (2180 lb)	
Breakout force, SAE	78.3 kN (17 600 lb)	70 kN (15 735 lb)	59.6 kN (13 400 lb)	
Bucket raise time	6.5 sec	6.5 sec	6.6 sec	
Bucket dump time	1.5 sec	1.5 sec	1.5 sec	
Bucket lower time	2.7 sec	2.7 sec	2.3 sec	

<sup>&</sup>lt;sup>a</sup>With three counterweights, zero sprocket weight

<sup>&</sup>lt;sup>b</sup>With four counterweights and two spocket weights

Maximum Travel Speeds				
455G Loader:	455G Loader:			
Forward Gear Speeds:	km/h	mph		
1	3.7	2.3		
2	5.3	3.3		
3	6.6	4.1		
4	9.5	5.9		
Reverse Gear Speeds:	km/h	mph		
1	4.0	2.5		
2	5.8	3.6		
3	7.2	4.5		
4	10.3	6.4		

Operating Weight:		
Standard Track w/ROPS Wide Track w/ROPS	8503 kg (18 745 lb) 8866 kg (19 545 lb)	
Adjustment to operating weights:		
Cab Bucket teeth, bolt-on Radial ripper w/3-shanks, w/o drawbar and counterweight Counterweight	add 306 kg (676 lb) minus 63 kg (139 lb) add 32 kg (70 lb) add 136 kg (300 lb)	

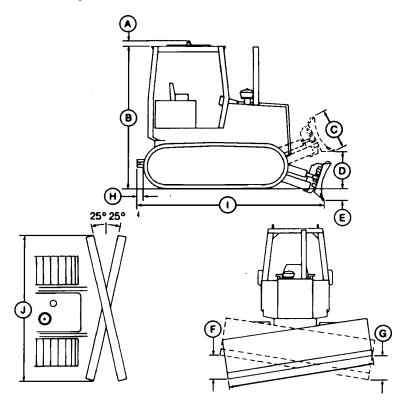
TX,115,RR3026 -19-14APR94-1/1

# 455G Drain and Refill Capacities

	Metric	English
Fuel tank	155 L	41 gal
Engine coolant	17 L	18 qt
Engine oil, including filter change (S.N. —840460)	8.5 L	9 qt
Engine oil, including filter change (S.N. 840461— )	14 L	15 qt
Transmission add 34 L (9 gal) w/winch if equipped	102 L	27 gal
Hydraulic reservoir	37.8 L	10 gal
Final drive (each side)	6.6 L	7 qt

TX,115,RR3044 -19-14APR94-1/1

#### **550G—LT Crawler Dozer Specifications**



NOTE: Specifications and design subject to change without notice. Whenever applicable, specifications are in accordance with ICED and SAE standards. Except where otherwise noted, these specifications are based on a unit with roll-over protective

structure, full fuel tank, 80 kg (175 lb) operator, and standard equipment.

Blade capacity shown is for a 2230 mm (7 ft 3.8 in.) blade. All blades are interchangeable between the 450G, 550G, and the 650G.

Item	Measurement	Specification	
Operator	Weight	80 kg (175 lb)	
Blade	Angled Width	2230 mm (7 ft 3.8 in.)	
A—Canopy extension		60 mm (2.4 in.)	
B—Canopy height		2.72 m (8 ft 11 in.)	
C—Blade height		847 mm (2 ft 9.3 in.)	
D—Blade lift height		866 mm (2 ft 10.1 in.)	
E—Digging depth		460 mm (1 ft 6.1 in.)	
F—Blade tilt (right side):		,	
Standard blade Wide blade		357 mm (2 ft 1 in.) 391 mm (1 ft 3.4 in.)	
G—Blade tilt (left side):			
Standard blade Wide blade		357 mm (1 ft 2.1 in.) 391 mm (1 ft 3.4 in.)	
H—Drawbar extension		280 mm (11 in.)	
I—Overall length		3917 mm (12 ft 10.2 in.)	
J—Blade width:		,	
Standard blade (angled width) Wide blade (angled width) Standard Wide		2415 mm (7 ft 11.1 in.) 2686 mm (8 ft 9.7 in.) 2667 mm (8 ft 9 in.) 2921 mm (9 ft 7 in.)	
	Continu	ed on next page TX.115	.FF1816 -19-12JAN93-1/

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Frack gauge:	1550 mm (61 in.)
Blade capacity:	
Standard blade	1.7 m <sup>3</sup> (2.3 yd <sup>3</sup> )
Wide blade	1.8 m <sup>3</sup> (2.3 yd <sup>3</sup> )
Engine: John Deere 4045T (S.N. —840460) or John Deere Po	owerTech 4.5L engine type 4045TT062 (S.N. 840461— )
Туре	Turbocharged
Bore and stroke	106.5 x 127 mm (4.19 x 5.00 in.)
No. of cylinders	4
Fuel consumption, typical (S.N. —840460)	7.0 to 10.5 L/h (1.8 to 2.8 gal/h)
Fuel consumption, typical (S.N. 840461—)	4.9 to 8.7 L/h (5 to 2.3 gal/hr)
Compression ratio (S.N. —840460)	17.2 to 1
Compression ratio (S.N. 840461—)	17 to 1
Electrical system	12 volt (with battery disconnect switch, if equipped)
Battery	12 volt
Alternator (S.N. —840460)	65 amp
Alternator (S.N. 840461— )	95 amp
SAE net power at 2100 rpm SAE gross power at 2100 rpm	59.5 kW (80 hp) 62 kW (83 hp)
Maximum net torque at 1300 rpm	353 N·m (260 lb-ft)
Drawbar	43 kW (58 hp)
Displacement (S.N. —840460)	4.524 L (276 cu in.)
Displacement (S.N. 840461—)	4.5 L
nd built by John Deere. You can power shift easily from one lower control inching pedal adds versatility. Four speeds forw	ect drive. Full power shift, Dura-Shift with torque converter or direct drive, designed gear to another as conditions change without stopping the machine or using a clutch ward and reverse allow the operator to match speeds to the working conditions.
lydraulic pump:	Gear
Pressure	18 961 kPa (2750 psi)
Flow at 2100 rpm	64 L/min (17 gpm)
Steering:	
Clutches	Wet multiple disk

Hydraulic pump:	Gear
Pressure	18 961 kPa (2750 psi)
Flow at 2100 rpm	64 L/min (17 gpm)
Steering:	
Clutches	Wet multiple disk
Brakes	Wet band
Undercarriage:	
Grouser, closed-center	457 mm (18 in.)
Track shoes, each side	40
Ground contact area	17 626 cm <sup>2</sup> (2732 in. <sup>2</sup> )
Ground pressure (direct drive)	44.1 kPa (6.4 psi)
Ground pressure (torque converter)	44.7 kPa (6.47 psi)
Operating Weight (with ROPS):	
Direct Drive	7947 kg (17 483 lb)
Torque Converter	8038 kg (17 683 lb)

TX,115,FF1816 -19-12JAN93-2/2

# 550G—LT Drain and Refill Capacities

	Metric	English
Fuel tank	155 L	41 gal
Engine coolant	17 L	18 qt
Engine oil, including filter change (S.N. —840460)	12.3 L	13 qt
Engine oil, including filter change (S.N. 840461—)	14 L	14.8 qt
Transmission:	•	,
Transmission, direct drive (S.N. —790984) Transmission, direct drive (S.N. 790985—) Transmission, torque converter	80.25 L 102 L 102 L	21.2 gal add 34 L (9 gal) w/winch if equipped 27 gal add 34 L (9 gal) w/winch if equipped 27 gal add 34 L (9 gal) w/winch if equipped
Hydraulic reservoir	38 L	10 gal
Hydraulic system	55.3 L	14.6 gal
Final drive (each side)	9.5 L	10 qt

TX,115,FF1917 -19-08OCT93-1/1