750J
(Serial No. 0-141343)

and
850J
(Serial No. 0-130885)

Crawler Dozer

OPERATOR'S MANUAL
750J and 850J Crawler Dozers

(ENGLISH)

CALIFORNIA
Proposition 65 Warning

Diesel engine exhaust and some of its constituents are known to the State of California to cause cancer, birth defects, and other reproductive harm.

If this product contains a gasoline engine:

⚠ WARNING

The engine exhaust from this product contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

The State of California requires the above two warnings.

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

Operate Only If Qualified

Do not operate this machine unless the operator's manual has been read carefully, and you have been qualified by supervised training and instruction.

Operator should be familiar with the job site and surroundings before operating. Try all controls and machine functions with the machine in an open area before starting to work.

Know and observe all safety rules that may apply to every work situation and work site.

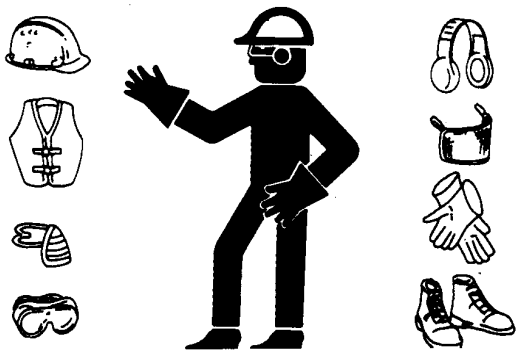
TX03679,00016FA –19–03JAN07–1/1

Wear Protective Equipment

Guard against injury from flying pieces of metal or debris; wear goggles or safety glasses.

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

Prolonged exposure to loud noise can cause impairment or loss of hearing. Wear suitable hearing protection such as earmuffs or earplugs to protect against objectionable or uncomfortable loud noises.



TS206 –UN–23AUG88

TX03679,00016D0 –19–08JAN08–1/1

Avoid Unauthorized Machine Modifications

John Deere recommends using only genuine John Deere replacement parts to ensure machine performance. Never substitute genuine John Deere parts with alternate parts not intended for the application as these can create hazardous situations or hazardous performance. Non-John Deere Parts, or any damage or failures resulting from their use are not covered by any John Deere warranty.

Modifications of this machine, or addition of unapproved products or attachments, may affect machine stability or reliability, and may create a hazard for the operator or others near the machine. The installer of any modification which may affect the electronic controls of this machine is responsible for establishing that the modification does not adversely affect the machine or its performance.

Always contact an authorized John Deere dealer before making machine modifications that change the intended use, weight or balance of the machine, or that alter machine controls, performance or reliability.

AM40430,00000A9 –19–14JAN08–1/1

Add and Operate Attachments Safely

Always verify compatibility of attachments by contacting your authorized dealer. Adding unapproved attachments may affect machine stability or reliability and may create a hazard for others near the machine.

Ensure that a qualified person is involved in attachment installation. Add guards to machine if operator protection is required or recommended. Verify that all connections are secure and attachment responds properly to controls.

Carefully read attachment manual and follow all instructions and warnings. In an area free of bystanders and obstructions, carefully operate attachment to learn its characteristics and range of motion.

TX03679,00016F0 –19–12FEB07–1/1

Approximately 5 seconds later, the Normal display will be shown.

The Transmission Mode Display (1) shows the forward (F), neutral (N), reverse (R), park (P) status. When the park brake lever is in the up (locked) position, a P will be displayed. When a transmission controller unit failure occurs, the display will show neutral.

The Transmission Speed Display (2) shows the transmission speed from 1.0 to 3.0 to the nearest tenth.

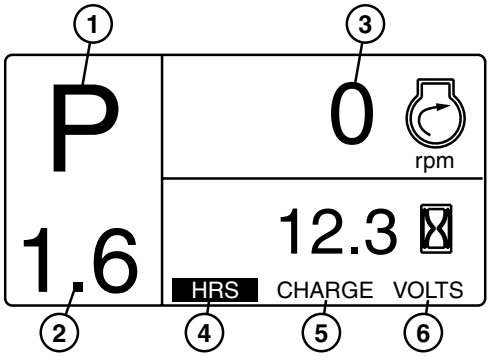
The Tachometer Display (3) shows the engine revolutions per minute to the nearest 5 rpm's. When a transmission controller unit malfunction occurs, a "---" is displayed.

NOTE: Press SELECT or NEXT to toggle between hours, charge pressure, and system voltage.

The Hour Meter Display (4) shows the machine hours to the nearest 1 decimal place. The hour meter accumulates hours only when the engine is on; and the icon flashes once per second. The hour meter displays up to 99,999.9 hours.

The Transmission Charge Pressure Display (5) will show transmission charge pressure in kPa or psi units.

The System Voltage Display (6) will show the vehicles system voltage.



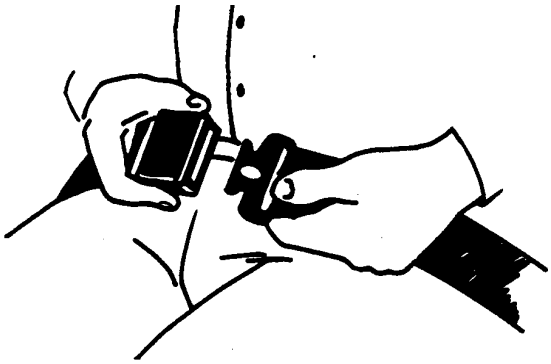
T208648 –19–15FEB05

1—Transmission Mode Display
2—Transmission Speed Display
3—Tachometer Display
4—Hour Meter Display
5—Charge Pressure Display
6—System Voltage Display

HG31779,0000320 –19–12FEB07–2/2

CAUTION: Use seat belt to avoid being injured or killed in case of accident such as an overturn.

2. Sit in seat and fasten seat belt.



TS175 –UN–23AUG88

Seat Belt

MH66O88,00001E6 –19–22FEB07–2/3

3. Place transmission control lever (TCL) (2) in neutral position.

4. Park lock lever (3) must be in up (locked) position.

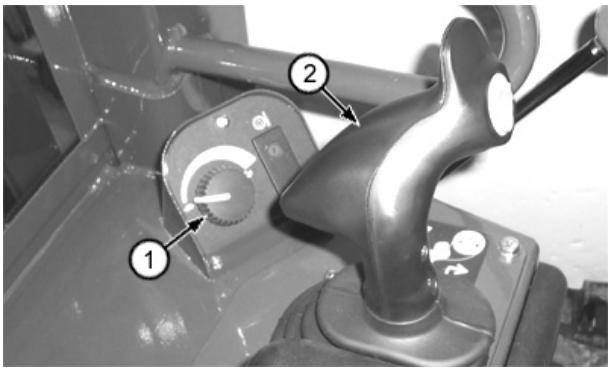
5. Turn engine speed control knob (1) to slow idle.

6. Push horn button to sound horn.

IMPORTANT: Do not operate starter for more than 20 seconds at a time or starter may be damaged. If engine does not start, wait at least 2 minutes before trying again. If engine does not start in four attempts, refer to Troubleshooting section. (Section 4-3.).

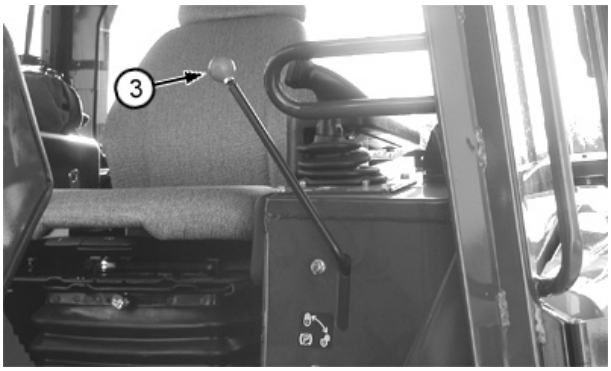
7. Turn key switch clockwise to turn engine until it starts. With engine running, adjust engine rpm to 1600 (1/2 speed). (See Engine Warm-Up in this section for proper warmup procedure.)

1—Engine Speed Control Knob
2—Transmission Control Lever (TCL)
3—Park Lock Lever



T206612A –UN–24JAN05

Engine Speed Control Knob



T198352B –UN–15MAR04

Park Lock Lever

MH66O88,00001E6 –19–22FEB07–3/3

Stopping the Machine

NOTE: Brake automatically engages under the following conditions:

1. *When the engine is not running.*
2. *If transmission control lever (TCL) is in neutral (N) position and machine senses hydrostatic motor movement for more than 2 seconds.*
3. *If TCL is in forward (F) or reverse (R) position and decel/brake pedal is pushed all the way to the first stop position (not into brake range) and machine senses hydrostatic motor movement for more than 2 seconds.*

Stop crawler by doing one of the following:

CAUTION: Prevent possible injury from unexpected machine movement. Pushing on decel/brake pedal will stop machine abruptly. Brake will release as pedal is released. Pushing the park lock lever to up (locked) position will stop machine abruptly.

- Move transmission control lever (TCL) to neutral.
- Push decel/brake pedal to second stop position (fully depress pedal).
- Push park lock lever to up (locked) position.

CAUTION: Prevent possible injury from overturning the machine. If blade is dropped when moving rapidly down a steep hill machine may overturn.

- As a last resort, drop blade to stop machine.

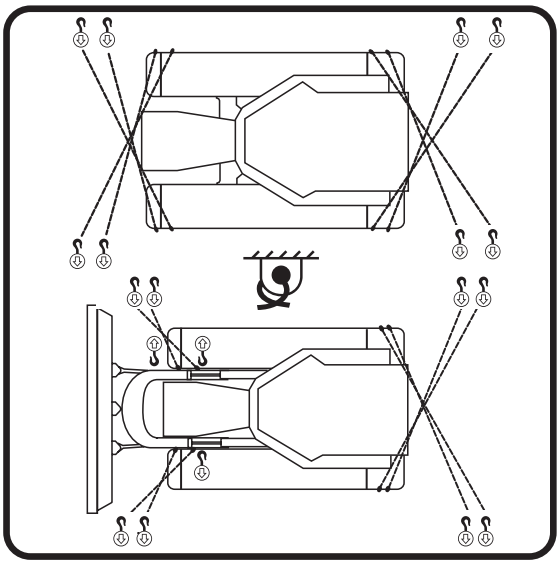
AM40430,0000023 –19–15MAY08–1/1

14. Turn key switch to ON position.
15. Push hydraulic enable switch to unlock position.
16. Release hydraulic pressure by moving control lever(s) until equipment does not move.
17. Turn key switch to OFF.
18. Turn battery disconnect switch to OFF position.
19. Cover exhaust opening to prevent entry of wind and water.

MH66O88,00001E9 –19–17OCT07–2/3

IMPORTANT: Fasten chains or cables to machine frame or track chain links. Do not place chains or cables over or against hydraulic lines or hoses.

20. Fasten each corner of the machine to the trailer with chains or cables.
    - Front: Use either the outside or inside of the track shoe as shown. In addition, it is permissible to use the tow hook eye on the bottom of the machine frame front end.
    - Side: Use inside edge of track shoe.
    - Rear: Use outer edge of track shoe. In addition, it is permissible to use the drawbar, if equipped.



T200748 –UN–07JUN04

Tie Downs

MH66O88,00001E9 –19–17OCT07–3/3

CAN Monitor Unit (CMU) Main Menu Machine Settings—Hydraulic Settings (IGC Option)

The feel of the dozer can be fine-tuned by adjusting the rates on the hydraulic controller unit. Listed below are the adjustable rates.

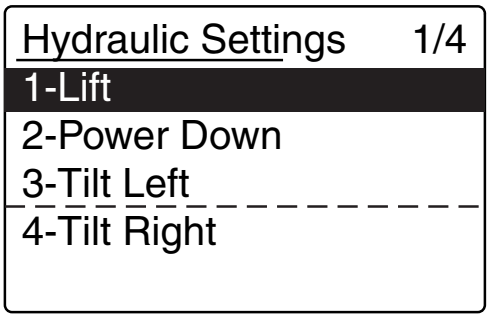
- Lift
- Power Down
- Tilt Left
- Tilt Right

Press SELECT to display submenu.

- Low
- Medium
- High

Hydraulic settings (IGC only): The hydraulic settings for the optional IGC system can be adjusted using this menu.

- Lift—Lift speed can be set to low, medium, or high.
- Power Down—Power down speed can be set to low, medium, or high.
- Tilt Left—Tilt left speed can be set to low, medium, or high.
- Tilt Right—Tilt right speed can be set to low, medium, or high.



TX1010947 –19–04AUG06

Hydraulic Settings

MH66O88,00001F3 –19–23AUG06–1/1

- Possible compatibility issues with other materials (including copper, lead, zinc, tin, brass, and bronze) used in fuel systems and fuel handling equipment
- Possible reduction in water separator efficiency
- Potential high acid levels within fuel system
- Possible damage to paint if exposed to biodiesel

IMPORTANT: Raw pressed vegetable oils are NOT acceptable for use as fuel in any concentration in John Deere engines. Their use could cause engine failure.

DX,FUEL7 –19–04OCT07–2/2

Low Sulfur Diesel Fuel Conditioner

When possible, use existing fuel formulations for engines used off-highway. This fuel will not require any additives to provide good performance and engine reliability. However, many local fuel distributors will not carry both low and regular sulfur diesel fuels.

If the local fuel distributor will supply only low sulfur fuel, order and use John Deere PREMIUM DIESEL FUEL CONDITIONER. It provides lubricating properties along with other useful benefits, such as cetane improver, anti-oxidant, fuel stabilizer, corrosion inhibitor and others. John Deere PREMIUM DIESEL FUEL CONDITIONER is specifically for use with low sulfur fuels. Nearly all other diesel fuel conditioners only improve cold weather flow and stabilize long-term fuel storage. They do not contain the lubrication additives needed by rotary fuel injection pumps.

TX,45,JC2126 –19–15AUG97–1/1

John Deere COOL-GARD™ II COOLANT EXTENDER

Some coolant additives will gradually deplete during engine operation. For John Deere COOL-GARD™ II Premix and COOL-GARD II Concentrate, replenish coolant additives between drain intervals by adding John Deere COOL-GARD II COOLANT EXTENDER.

John Deere COOL-GARD II COOLANT EXTENDER should not be added unless indicated by coolant testing.

John Deere COOL-GARD II COOLANT EXTENDER is a chemically matched additive system approved for use with John Deere COOL-GARD II coolants in all John Deere engines.

John Deere COOL-GARD II COOLANT EXTENDER is not designed for use with John Deere COOL-GARD coolants.

IMPORTANT: Do not add a supplemental coolant additive when the cooling system is drained and refilled with any of the following:

- **John Deere COOL-GARD II**
- **John Deere COOL-GARD**
- **John Deere COOL-GARD PG**

The use of non-recommended supplemental coolant additives may result in additive drop-out, gelation of the coolant, or corrosion of cooling system components.

Add the recommended concentration of John Deere COOL-GARD II COOLANT EXTENDER. DO NOT add more than the recommended amount.

COOL-GARD is a trademark of Deere & Company

DX,COOL16 –19–03NOV08–1/1

Supplemental Coolant Additives

Some coolant additives will gradually deplete during engine operation. For John Deere COOL-GARD™ Premix, COOL-GARD Concentrate, or John Deere COOL-GARD PG Premix, replenish coolant additives between drain intervals by adding a supplemental coolant additive as determined necessary by coolant testing.

John Deere LIQUID COOLANT CONDITIONER is recommended as a supplemental coolant additive for John Deere COOL-GARD Premix, COOL-GARD Concentrate, and COOL-GARD PG Premix.

John Deere LIQUID COOLANT CONDITIONER is not designed for use with COOL-GARD II Premix or COOL-GARD II Concentrate.

IMPORTANT: Do not add a supplemental coolant additive when the cooling system is drained and refilled with any of the following:

- **John Deere COOL-GARD II**
- **John Deere COOL-GARD**
- **John Deere COOL-GARD PG**

If other coolants are used, consult the coolant supplier and follow the manufacturer's recommendation for use of supplemental coolant additives.

The use of non-recommended supplemental coolant additives may result in additive drop-out and gelation of the coolant.

Add the manufacturer's recommended concentration of supplemental coolant additive. DO NOT add more than the recommended amount.

COOL-GARD is a trademark of Deere & Company

DX,COOL4 –19–03NOV08–1/1

Model: ❒750J ❒850J
Customer:
PIN/Serial Number:
Delivery Date:
Hour Meter Reading:

OIL SAMPLING

Oil samples should be taken from each system prior to its recommended drain/change interval indicated on this form: 250, 500, 1000, 2000 hours. Maintenance recommendations supplied by OILSCAN PLUS will be provided based upon the oil analysis and operating information you supply. Regular oil sampling will extend the operational life of your machine's systems.

Every 250 Hours

❒Check coolant level
❒Take engine oil sample - 250 hours (recommended), 500 hours (maximum)
❒Take hydraulic oil sample

Every 500 Hours

❒ Change engine oil and replace filter
❒ Replace fuel filters
❒ Check battery water level; clean and tighten terminals
❒ Take inner and outer final drive oil sample
❒ Take gearbox oil sample
❒ Take transmission oil sample
❒Take engine oil sample - 250 hours (recommended), 500 hours (maximum)
❒ Check coolant conditioner in radiator
❒ Check air intake hoses
❒ Take engine coolant sample
❒Take transmission oil sample
❒ Take axle oil sample
❒Take diesel fuel sample

Every 1000 Hours

❒ Clean engine crankcase vent tube
❒ Change inner and outer final drive oil
❒ Check track frame pivot shaft oil.
❒ Check coolant

Every 2000 Hours

❒ Check and adjust engine valve lash
❒ Change hydraulic system oil and replace filter
❒ Replace hydraulic fan oil return filter
❒ Change hydrostatic transmission oil
❒ Replace hydrostatic charge filter

Every 4500 Hours

❒ Replace engine crankshaft dampener(s)

Every 6000 Hours

❒ Drain and refill engine cooling system

VD76477,00004D1 –19–29DEC08–2/2

Required Parts

Model: ❒ 750J and 850J		Customer:
PIN/Serial Number:	Delivery Date:	Hour Meter Reading:
REQUIRED PARTS		
Insure machine performance and availability; use only genuine John Deere parts. Verify part numbers are current and that any associated parts are also on hand, i.e., filter O-rings.		

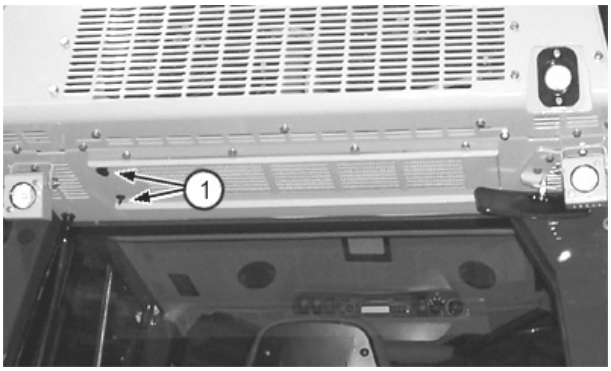
Continued on next page

JH91824,0000249 –19–30DEC08–1/3

Cleaning Fresh Cab Air Filter—If Equipped

1. Loosen wing nuts (1) to remove access cover.
2. Remove filter holder from compartment. Remove filter element.
3. Tap filter on flat surface with dirty side down to loosen and remove large portions of dirt.
4. Install filter. Tighten wing nuts.

1—Wing Nuts (2 used)



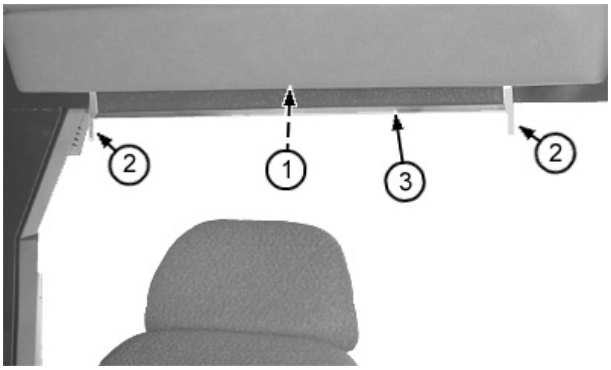
T206854A –UN–24JAN05

T120688B –UN–23MAR99

CED,OUO1032,1138 –19–04DEC06–1/1

Cleaning Cab Air Recirculation Filter—If Equipped

1. Rotate latch (1) in center of filter housing.
2. Pull filter tabs (2) to remove filter (3).
3. Use compressed air under 210 kPa (2.1 bar) (30 psi). Direct air opposite to normal air flow.
4. Wash filter in warm, soapy water, rinse and dry.
5. If filter will not come clean, replace as necessary.
6. Fasten latch.

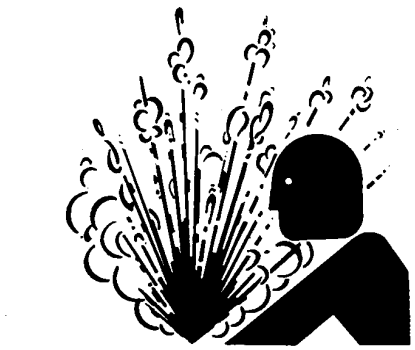


T200657A –UN–04JUN04

1—Latch
2—Filter Tabs (2 used)
3—Filter

HG31779,0000028 –19–04DEC06–1/1

Check Radiator Coolant Level



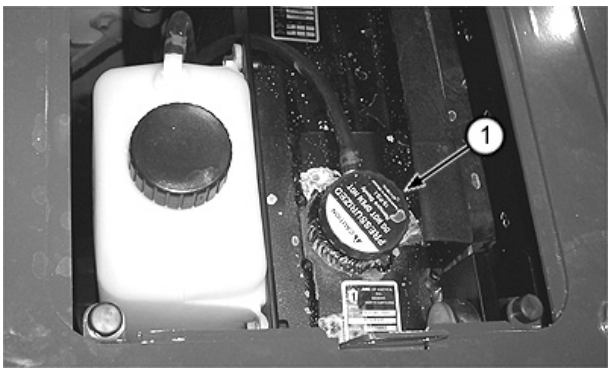
TS281 –UN–23AUG88

CAUTION: Explosive release of fluids from pressurized cooling system can cause serious burns.

Remove filler cap only when engine is cold or when cool enough to touch with bare hands. Slowly loosen cap to first stop to relieve pressure before removing completely.

1. Remove radiator cap (1) and check coolant level. Coolant must be level with bottom of filler neck.
2. Add coolant if necessary.

1—Radiator Cap



T206636A –UN–05JAN05

TX,75,BG1011 –19–18JAN05–1/1

Check Track Frame Pivot Shaft Oil

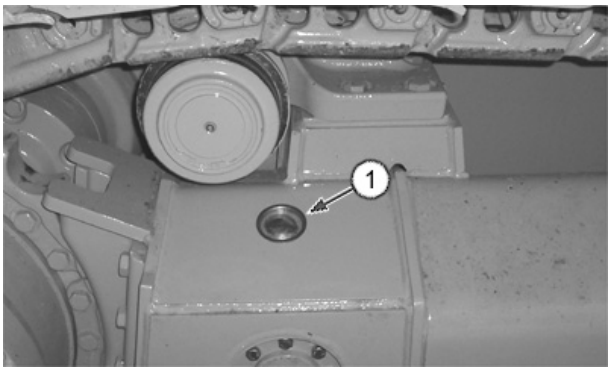
1. Remove cap (1).
2. Remove plug (2).
3. Check oil level and fill completely. See Inner and Outer Final Drive Oil. (Section 3-1.)

Specification

HY-GARD™—Capacity ..... 1.7 L
1.75 qt

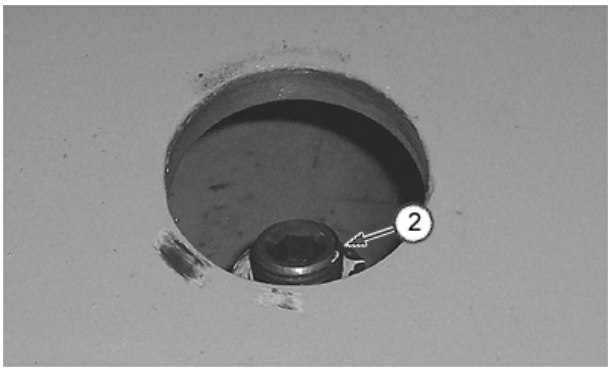
4. Replace cap.
5. Replace plug.

1—Cap
2—Plug



T206712A –UN–07JAN05

Two Points



T206713A –UN–06JAN05

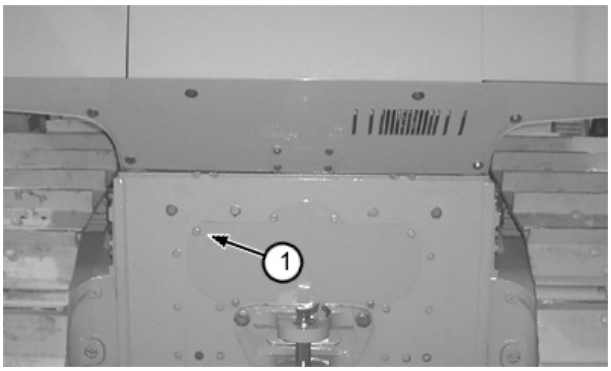
HY-GARD is a trademark of Deere & Company

AM40430,0000020 –19–22FEB07–1/1

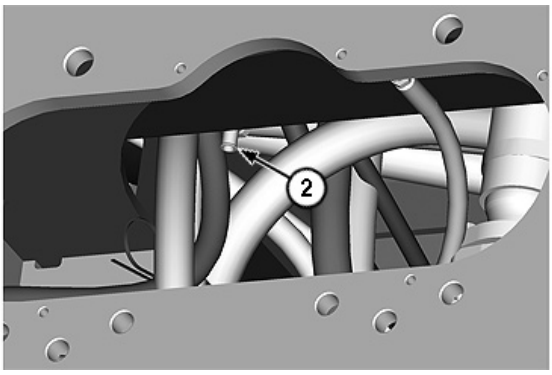
Fuel Drain and Shutoff Valve

1. Remove bolts (1) to remove cover at rear of machine.
2. Attach hose to environmental drain valve (2).
3. Open drain valve. Drain fuel into appropriate container. Dispose of waste properly. See Safety-General Precautions. (Section 1-2.)
4. Close drain valve.
5. Disconnect hose from drain valve.

1—Bolts (6 used)
2—Environmental Drain Valve



T207206A –UN–24JAN05



TX1051602A –UN–14NOV08

Environmental Drain Valve

MD04263,000001D –19–17NOV08–1/1

Discharge Pilot Control System Hydraulic Pressure

CAUTION: Prevent injury from unexpected machine movement. Turn engine off. Keep bystanders clear of machine.

Before servicing or performing maintenance on the machine, discharge hydraulic oil pressure from the pilot control system as follows:

1. Ensure that area around blade is clear.
2. Turn off engine.
3. Turn key switch to ON position.
4. Without starting engine and hydraulic enable switch in unlocked position, cycle hydraulic control lever in all directions.

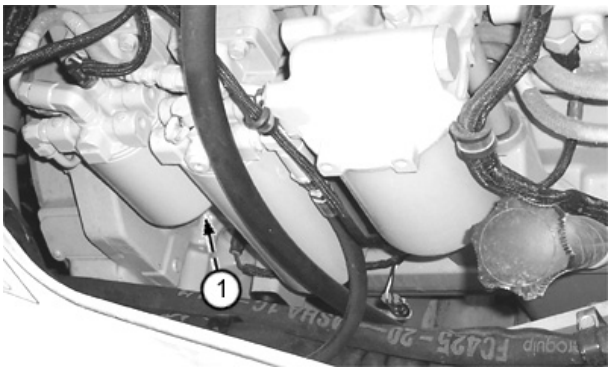
HG31779,00001BD –19–12JUN07–1/1

Drain Fuel Filter Sediment—850J

Drain water and sediment as necessary.

1. Loosen drain screw (1). Drain liquid for several seconds.
2. Tighten drain screw.
3. Bleed fuel system. See Change Fuel Filter in Maintenance—Every 500 Hours chapter for bleeding instructions.

1—Drain Screw



T207189B —UN—26JAN05

AM40430,000004A –19–17FEB05–1/1

Checking Idlers and Rollers for Oil Leakage

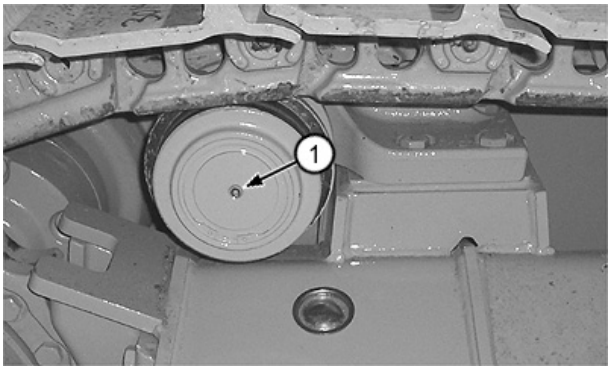
Check carrier rollers, front idlers and track rollers for leaks. If any leaks are found, see your authorized dealer.

AM40430,0000019 –19–19SEP08–1/1

Checking Carrier Roller Oil Level

1. Remove plug from carrier roller. Oil must flow from hole.
2. Add oil as necessary. See Track Rollers, Front Idler, Carrier Roller and Track Frame Outer Pivot Oil. (Section 3-1.)
3. Install plug.

1—Plug



AM40430,000001A –19–19SEP08–1/1

Miscellaneous—Operational Checkout

Operational Checkout

Use this procedure to make a quick check of machine operation by doing a walk around inspection and performing specific checks from operator's seat.

Complete visual checks (oil levels, oil condition, external leaks, loose hardware, linkage, wiring, etc.) before performing checkout.

Most checks will require machine systems to be at normal operating temperatures and a level area with adequate space to operate machine. Some checks may require varied surfaces.

No special tools are necessary to perform the checkout.

If no problem is found, go to next check. If problem is indicated, an additional check or repair procedure will be suggested.

DZ80269,000020A –19–11AUG06–1/1

❶ Engine Off Checks

–––1/1

Radiator Cap, Coolant Level, Coolant Condition Checks	**CAUTION: Explosive release of fluids from pressurized cooling system can cause serious burns. DO NOT remove radiator cap unless engine is cool. Then turn cap slowly to the stop. Release all pressure before you remove cap.** Open radiator cap. *FEEL: The radiator cap must have a stop position and must be pushed down to turn when removing.* *LOOK: Does radiator cap have a good seal and gasket? The seal must move freely and the spring must not be corroded.* Inspect coolant level and coolant condition. *LOOK: Is coolant clean and not oily, foamy, or rusty?*	**YES:** Check complete. **NO:** If vacuum release valve is plugged or spring corroded, replace radiator cap. **NO:** If coolant is rusty, oily, or foamy, drain, flush and replace coolant. **NO:** If radiator is low and coolant tank has coolant in it, check for leak on recovery hose.

–––1/1

Transmission Control Lever Check	**CAUTION: Prevent possible injury from machine movement. Make sure there is adequate room and be aware of bystanders.** Engine speed at 1500 rpm. Transmission speed to 2.0. Make several shifts from neutral to forward, neutral to reverse and then forward to reverse. **Specification** Engine—Speed ..... 1500 rpm *LOOK: Does machine shift smoothly?* *LOOK: Does machine operate in forward and reverse?* *NOTE: Transmission control lever shift rate can be set to operator preference. Low has a slower reaction time and high has a quicker reaction time.*	**YES:** Check complete. **NO:** See your authorized dealer. – – –1/1
Decelerator/Brake Pedal and Park Brake Check	Start engine. **CAUTION: Prevent possible injury from unexpected machine braking. Pushing on decel/brake pedal will stop machine abruptly.** Park lock lever down. Operate machine slowly in forward. Fully depress decel/brake pedal and then release. *LOOK: Machine must stop when pedal is depressed and must move when pedal is released.* Depress decel/brake pedal until spring resistance is felt. Adjust engine speed to fast idle. Transmission speed to 3.0. Transmission control lever in forward position. Release decel/brake pedal. *LOOK: Does machine accelerate smoothly to maximum speed?* *NOTE: Decel/brake response time can be set to operator preference.*	**YES:** Check complete. **NO:** Inspect park brake valve and calibrate machine. – – –1/1

Symptom	Problem	Solution
Abnormal Engine Noise	Low or incorrect engine oil	Add correct oil.
	Start aid solenoid stuck	Remove start aid can from bracket and restart engine.
	Engine oil diluted with fuel	Inspect engine oil. Inspect fuel pump spindle, seal, and housing.
	Turbocharger	Remove air intake hose and check compressor wheel clearance between housing and wheel. Spin compressor wheel; check for worn bearings. Repair turbocharger.
	Excessive valve clearance	Adjust valve clearance. See Maintenance—Every 1000 Hours chapter.
	Bent push rods	Replace. See your authorized dealer.
	Worn rocker arm shafts	Replace. See your authorized dealer.
	Loose connecting rod caps	Inspect and tighten connecting rod cap screws. See your authorized dealer.
	Loose main bearing caps	Inspect and tighten main bearing cap screws. See your authorized dealer.
	Worn main bearing	Replace bearings. See your authorized dealer.
	Worn connecting rod bearings	Replace bearings. See your authorized dealer.
	Incorrect camshaft timing	Check camshaft timing. See your authorized dealer.
	Scored piston	Replace. See your authorized dealer.
	Worn piston pin bushings and pins	Replace pins and bushings. See your authorized dealer.

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Symptom	Problem	Solution
Hydraulic Oil Filter Restriction Indicator Light Stays On All the Time	Restricted hydraulic oil filter	Replace filter.
	Hydraulic oil filter restriction switch	See your authorized dealer.
Hydraulic Fan Oil Filter Restriction Indicator Light Stays On All the Time	Wiring harness or connection at bulk head connector	See your authorized dealer.
	Filter	Remove, inspect and replace.
	Pin in filter housing	Make sure pin is not stuck against switch.
Monitor Does Not Work	Monitor fuse	Replace fuse.
	Wiring harness	See your authorized dealer.
Voltage Indicator Indicates Low Charge	Regulator	See your authorized dealer.
	Wiring harness or connectors	See your authorized dealer.
Transmission Oil Temperature Gauge Always Indicates HOT	Gauge	See your authorized dealer.
	Sender	See your authorized dealer.
	Wiring harness	See your authorized dealer.
Engine Oil Pressure Gauge Always Indicates HIGH	Wire harness or bad connection at bulkhead connector	See your authorized dealer.
	Indicator	See your authorized dealer.
	Sender	See your authorized dealer.
	Wiring harness	See your authorized dealer.
	High oil viscosity	Drain and add correct oil.

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Symptom	Problem	Solution
	Actuator Spool Sticking or Actuator Solenoid Malfunctioning	See your authorized dealer.
	Pump Load Sense Not Set Correctly or Load Sense Spool Sticking	See your authorized dealer.
	Control Valve Load Sense Relief Valve Sticking	See your authorized dealer.
All Blade Functions Are Slow or Sluggish	Valve Calibration or Valve Offset and Gain Not Set Correctly (Auto Mode Only)	Perform valve calibration procedure or adjust valve offset and gain procedures per grade control supplier's instructions. If problem cannot be resolved, see your authorized dealer.
	Pump Load Sense Not Set Correctly or Load Sense Spool Sticking	See your authorized dealer.
	Control Valve Load Sense Relief Valve Sticking	See your authorized dealer.
	Hydraulic Malfunction	See Hydraulic System diagnostics in this section.
Blade Response Is Too Fast	Valve Calibration or Valve Offset and Gain Not Set Correctly (Auto Mode Only)	Perform valve calibration procedure or adjust valve offset and gain procedures per grade control supplier's instructions. If problem cannot be resolved, see your authorized dealer.
	Pump Load Sense Not Set Correctly or Load Sense Spool Sticking	See your authorized dealer.
	Control Valve Load Sense Relief Valve Sticking	See your authorized dealer.
Blade Moves Quickly (Jumps) to One Side, Then Slowly Comes Back on Grade	Valve Calibration or Valve Offset and Gain Not Set Correctly (Auto Mode Only)	Perform valve calibration procedure or adjust valve offset and gain procedures per grade control supplier's instructions. If problem cannot be resolved, see your authorized dealer.

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750J Crawler Dozer Specifications

Item	Measurement	Specification
John Deere PowerTECH® 6068H 6-Cylinder Diesel Engine		
Engine	Type	Turbocharged
Fuel Consumption, Typical	Consumption	14.4—20.8 L/h 3.8—5.5 gph
Rated Power at 2100 rpm	Power	108 kW SAE net horsepower 145 hp
Piston	Displacement	6.8 L 414 $in.^3$
Maximum Net Torque at 1400 rpm	Torque Rise	700 N•m 420 lb-ft
Batteries	Voltage	12-volt
Alternator—ROPS	Amperage	55 amp
Alternator—Cab with Air Conditioning	Amperage	80 amp
Transmission	Speed	0—10 km/h 0—6.3 mph
Hydraulic System	Pressure	25 000 kPa 3625 psi
	Flow Rate	132.4 L/min @ unloaded high idle 35 gpm
Undercarriage		
Track Shoes (Each Side)	Quantity	40
Ground Contact Area (with 22 in. Shoes)	Area	28 955 cm^2 4488 sq. in

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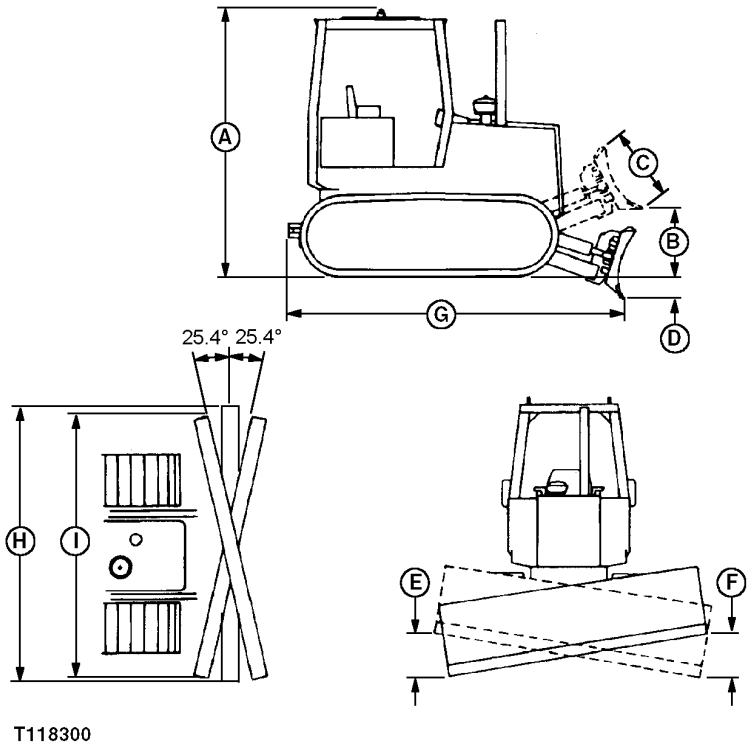
750J Pushbeam Crawler Dozer Dimensions



T118300

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NOTE: Specifications and design subject to change without notice. Whenever applicable, specifications are in accordance with ISO 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.

Item	Measurement	Specification
A—Overall Height—ROPS or Cab	Height	3095 mm 122 in.
B—Blade	Height	1240 mm 48.8 in.
C—Blade Lift	Height	1050 mm 41.3 in.
D—Digging	Depth	575 mm 22.6 in.
E—Blade Tilt	Distance	722 mm 28.4 in

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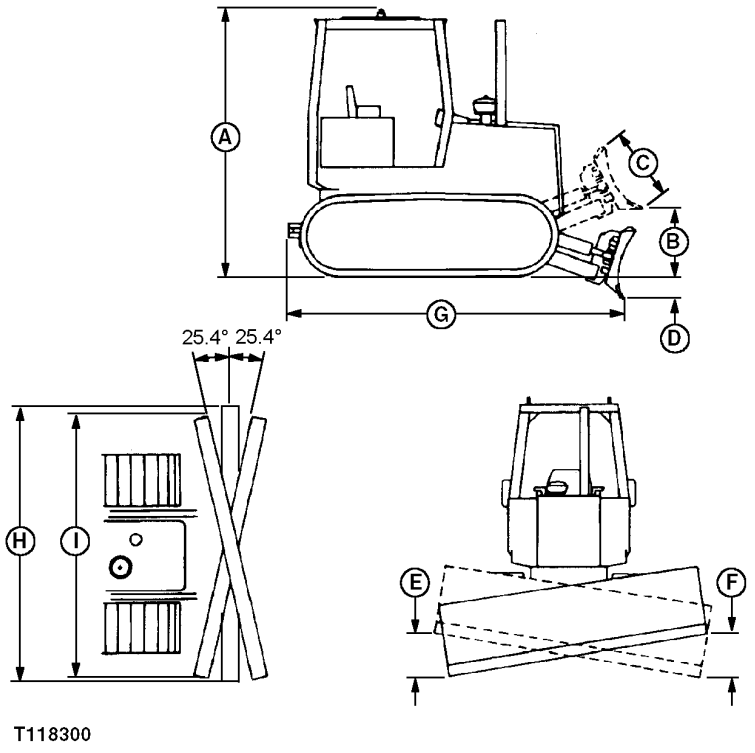
850J-LT Crawler Dozer Dimensions



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NOTE: Specifications and design subject to change without notice. Whenever applicable, specifications are in accordance with ISO 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.

Item	Measurement	Specification
A—Overall Height—ROPS or Cab	Height	3180 mm 125 in.
B—Blade	Height	1230 mm 48.4 in.
C—Blade Lift	Height	1071 mm 42.2 in.
D—Digging	Depth	703 mm 27.7 in.
E—Blade Tilt	Distance	498 mm 19.6 in

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850J-LGP Crawler Dozer Specifications

Item	Measurement	Specification
John Deere PowerTECH® 6081H 6-Cylinder Diesel Engine		
Engine	Type	Turbocharged
Fuel Consumption, Typical	Consumption	14.4—20.8 L/h 3.8—5.5 gph
Rated Power at 1800 rpm	Power	151 kW SAE net horsepower 200 hp
Piston	Displacement	8.1 L 496 $in.^3$
Maximum Net Torque at 1000 rpm	Torque Rise	880 N•m 650 lb-ft
Batteries	Voltage	12-volt
Alternator—ROPS	Amperage	55 amp
Alternator—Cab with Air Conditioning	Amperage	80 amp
Transmission	Speed	0—10 km/h 0—6.3 mph
Hydraulic System	Pressure	25 000 kPa 3625 psi
	Flow Rate	163 L/min @ unloaded high idle 43 gpm
Undercarriage		
Track Shoes (Each Side)	Quantity	45
Ground Contact Area (with 36 in. Shoes)	Area	59 787 cm^2 9310 sq. in

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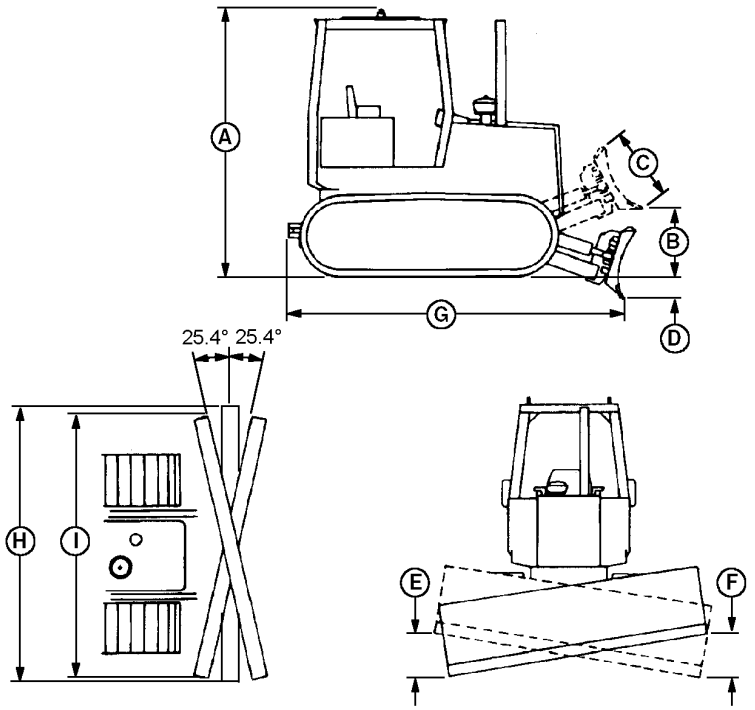
850J-LGP Pushbeam Crawler Dozer Dimensions



T118300 –UN–11NOV98

NOTE: Specifications and design subject to change without notice. Whenever applicable, specifications are in accordance with ISO 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.

Item	Measurement	Specification
A—Overall Height—ROPS or Cab	Height	3180 mm 125 in.
B—Blade	Height	1320 mm 52 in.
C—Blade Lift	Height	1150 mm 45.3 in.
D—Digging	Depth	600 mm 23.6 in.
E—Blade Tilt	Distance	854 mm 33.6 in

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