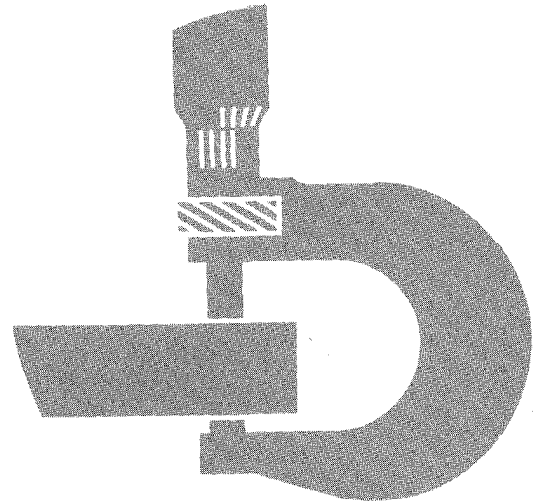


750B and 850B Crawler Bulldozer Repair



TECHNICAL MANUAL

For complete service information also see:

750B and 850B Crawler Bulldozers	
Operation and Test	TM1332
6076 Engine ..	CTM6
6068 Engine ..	CTM8
6414 Engine ..	CTM4
6166 Engine ..	CTM1
Engine Accessories	CTM11
Undercarriage Appraisal Manual	SP326

**John Deere Dubuque Works
TM1476 (11MAY94)**

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ENGLISH

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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.



DX,FLAME -19-04JUN90

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TS227

PREVENT BATTERY EXPLOSIONS

Keep sparks, lighted matches, and open flame away from the top of battery. Battery gas can explode.

Never check battery charge by placing a metal object across the posts. Use a volt-meter or hydrometer.

Do not charge a frozen battery; it may explode. Warm battery to 16°C (60°F).



DX,SPARKS -19-03MAR93

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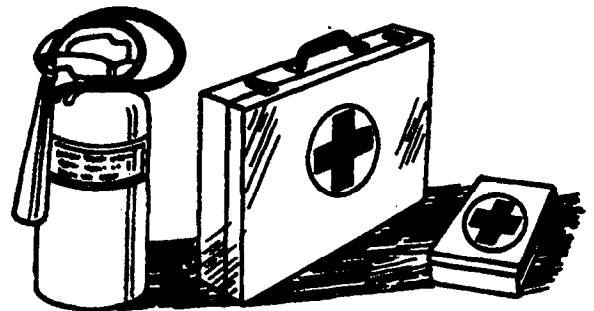
TS204

PREPARE FOR EMERGENCIES

Be prepared if a fire starts.

Keep a first aid kit and fire extinguisher handy.

Keep emergency numbers for doctors, ambulance service, hospital, and fire department near your telephone.



DX,FIRE2 -19-03MAR93

-UN-23AUG88

TS291

DISPOSE OF WASTE PROPERLY

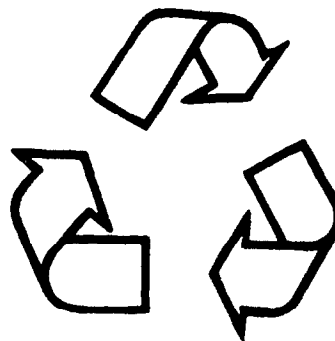
Improperly disposing of waste can threaten the environment and ecology. Potentially harmful waste used with John Deere equipment include such items as oil, fuel, coolant, brake fluid, filters, and batteries.

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.



DX, DRAIN -19-03MAR93

LIVE WITH SAFETY

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



DX, LIVE -19-25SEP92

750B GENERAL SPECIFICATIONS

Engine: John Deere 6068T

Type	4-stroke cycle, turbocharged diesel
Bore and stroke	4.19 X 5 in. (106.4 x 127 mm)
Number of cylinders	6
Displacement	414 cu in. (6.785 L)
Lubrication	Pressure system with full flow filters
Cooling	Pressurized with thermostat and controlled bypass
Fan	Blower
Air Cleaner	Dry
Electrical system	24 volt with a 40 amp alternator
Batteries (2) 12 volt	Reserve capacity: 160 minutes
Power at 2100 engine rpm:	
Net	SAE 89 kW (120 hp)
Gross	SAE 95 kW (128 hp)

Transmission:

Splitter drive: Pressure-lubricated helical gears drive both transmissions, main hydraulic pump, winch drive shaft and auxiliary pump drive.

Speeds:

Infinite from 0-10.5 km/h (0-6.5 mph) forward and reverse

Steering:

Hydrostatic steering eliminates the need for steering clutches and steering brakes.

Parking Brakes:

Wet-disk brakes are automatically applied when engine is stopped, or manually applied with center foot pedal during normal operation.

Hydraulic System (Open Center):

Pressure	13 790 kPa (137.9 bar) (2000 psi)
Filter	10 micron filter in return line with bypass

Tracks:

Track shoes each side	40
Ground contact area	20 903 cm ² (3240 sq in.)
Wide track	39 484 cm ² (6120 sq in.)
Ground pressure:	
6505	66.6 kPa (0.7 bar) (9.66 psi)
6520	62.4 kPa (0.6 bar) (9.05 psi)
6525	61.7 kPa (0.6 bar) (8.95 psi)
Narrow gauge	62.2 kPa (0.6 bar) (9.02 psi)
Wide track	35.2 kPa (0.4 bar) (5.10 psi)
General purpose	(53.2 kPa (0.5 bar) (7.71 psi)
Track gauge	1.88 m (74 in.)
Narrow gauge	1.63 m (64 in.)
Minimum ground clearance	356 mm (14 in.)

NOTE: Specifications and design subject to change without notice. Wherever applicable, specifications are in accordance with ICED and SAE standards. Except where otherwise noted, these specifications are based on a unit equipped with 457 mm (18 in.) grousers [864 mm (34 in.) for wide track and low ground pressure], roll-over protective canopy, full fuel tank, 79 kg (175 lb) operator, and standard equipment.

TX,SECI,FF,319 -19-05AUG93

750B DRAIN AND REFILL CAPACITIES

	English	Metric
Cooling system	7 gal	26.5 L
Fuel tank	73 gal	276 L
Engine crankcase, including filter	20 qt	19 L
Splitter drive	1.5 gal	5.7 L
Inner final drive (each side)	8.5 gal	32.2 L
Inner final drive (narrow gauge) (each side)	5.4 gal	20.3 L
Outer final drive (each side)	3.5 gal	13.2 L
Hydraulic reservoir	27.5 gal	104 L
Transmission reservoir	23 gal	87 L

TX,SECI,FF,301 -19-05AUG93

850B GENERAL SPECIFICATIONS

Engine: John Deere 6466A

Type	Turbocharged and aftercooled diesel
Bore and stroke	4.56 X 4.75 in. (116 x 121 mm)
Displacement	466 cu in. (7.636 L)
Lubrication	Pressure system with full flow filters
Cooling	Pressurized with thermostat and controlled bypass
Fan	Blower
Air Cleaner	Dry
Electrical system	24 volt with a 40 amp alternator
Batteries (2) 12 volt	Reserve capacity: 180 minutes
Power at 1800 engine rpm:	
Net	SAE 123 kW (165 hp)
Gross	SAE 131 kW (175 hp)

Transmission:

Splitter drive: Pressure-lubricated helical gears drive both transmissions, main hydraulic pump, winch drive shaft and auxiliary pump drive. Speeds: Infinite from 0-6.5 mph (0-10.5 km/h) forward and reverse.

Steering:

Hydrostatic steering eliminates the need for steering clutches and steering brakes.

Parking Brakes:

Wet-disk brakes are automatically applied when engine is stopped, or manually applied with center foot pedal during normal operation.

Hydraulic System (Open Center):

Pressure	2250 psi (15 514 kPa) (155 bar)
Filter	10 micron filter in return line with bypass
Pump flow at 2100 rpm	144 L/min (38 gpm)

Tracks:

Track shoes each side	37
Low ground pressure	43
Long track	40
Ground contact area	29 419 cm ² (4560 sq in.)
Low ground pressure	58 352 cm ² (9044 sq in.)
Long track	33 135 cm ² (5 136 sq in.)
Ground pressure:	
6540	57.3 kPa (0.6 bar) (8.3 psi)
6545	56.7 kPa (0.6 bar) (8.2 psi)
Low ground pressure	3.38 kPa (0.3 bar) (4.9 psi)
General purpose	59.1 kPa (0.6 bar) (8.58 psi)
Long track (6540)	53.3 kPa (0.5 bar) (7.7 psi)
Long track (6545)	52.8 kPa (0.5 bar) (7.65 psi)
Track gauge	1.88 m (74 in.)
Low ground pressure	2.24 m (88 in.)
Minimum ground clearance	417 mm (16.4 in.)
Low ground pressure with swamp shoe	490 mm (19.3 in.)

Operating Weight w/ROPS:

850B Standard	17 198 kg (37915 lb)
850B LGP	20 124 kg (44 365 lb)

Drawbar pull at 0.4 km/h (0.25 mph) 29 484 kg (289 kN) (65 000 lb)

NOTE: Specifications and design subject to change without notice. Wherever applicable, specifications are in accordance with ICED and SAE standards. Except where otherwise noted, these specifications are based on a unit equipped with 20 in. (508 mm) grousers [965 mm (38 in.) low ground pressure], roll-over protective canopy, full fuel tank, 79 kg (175 lb) operator, and standard equipment.

TX,SECI,FF,321 -19-01APR94

850B DRAIN AND REFILL CAPACITIES

	English	Metric
Cooling system	9 gal	34 L
Fuel tank	82 gal	310 L
Engine crankcase, including filter	25 qt	24 L
Splitter drive	1.5 gal	5.7 L
Inner final drive (each side)	5.5 gal	20 L
Inner final drive (LGP) (each side)	10 gal	38 L
Outer final drive (each side)	3.5 gal	13.25 L
Track frame pivot (each side)	1 pt	0.47 L
Hydraulic reservoir	27.5 gal	104 L
Transmission reservoir	29 gal	110 L

TX,SECI,FF,302 -19-05AUG93

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