EN

Utility Vehicle 2200D

Bobcat

Operation & Maintenance Manual

S/N 235211001 & Above



EQUIPPED WITH
BOBCAT INTERLOCK
CONTROL SYSTEM (BICS™)

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CONTROLS AND INDICATORS (HOMOLOGATED DIESEL VEHICLE)

Electric Bed Lift

The electric bed lift switch (1) is located on the instrument panel to the right of the key switch **[Figure 2]**. To lift the bed, pull up and hold the toggle switch in the upper position. Release switch to stop lifting operation. To close the bed, press down and hold switch in the lower position. The bed lift will make a loud clicking sound to signal the bed is in the rest position.

Headlamps and Taillamps

The headlamp/taillamp and side position lamp control switch (5) is located to the left of the steering column **[Figure 2]**. Press the switch to the right to turn all lamps on. Press the switch to the left to turn side position lamps on only. Return the switch to the middle position to turn the lamps off.

Brake Lamps

The brake lamps illuminate when the brake pedal is pressed. When the park brake is engaged, the brake lamps will turn off. **See following NOTE.**

NOTE: When the key switch is in the OFF position, the brake lamps are disabled.

Turn Signal

There are two turn signal indicator lights (3) on the instrument panel **[Figure 2]**. The upper symbol indicates the turn direction for the vehicle; the lower symbol indicates the turn direction for an attached trailer.

The turn signal control (1) is mounted on the steering column **[Figure 5]**. Move the handle up to indicate a right-hand turn. Move the handle down to indicate a left-hand turn. Return the handle to the center position after completing a turn.

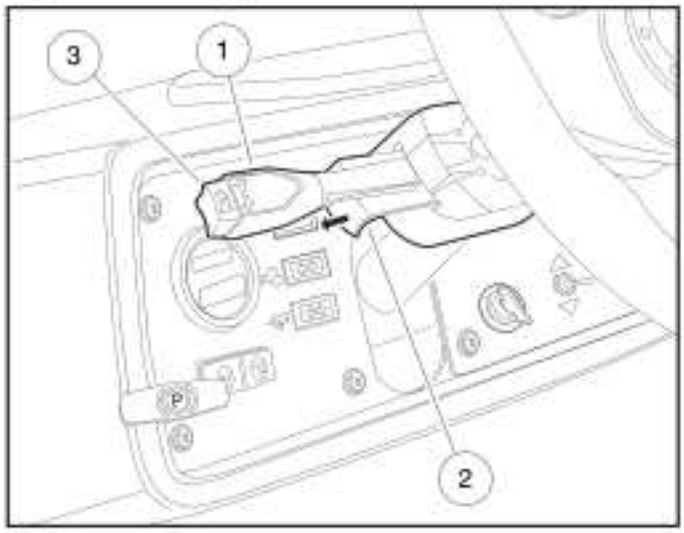
NOTE: If the turn signal lamp burns out, the indicator light on the instrument panel will flash at twice the normal speed.

If an attached trailer's turn signal lamp burns out, the indicator light will not flash.

Hazard Lamps

The hazard lamp switch (2) is located behind the turn signal handle **[Figure 5]**. To activate the hazard lamps, make sure that the turn signal handle is in the center (off) position, then pull the switch marked "HAZARD" until it is locked in place. To deactivate the hazard lamps, move the turn signal handle in either direction and return it to the center position.

Figure 5 Turn Signal and Horn Controls



Horn

The horn button (3) is located on the end of the turn signal handle **[Figure 5]**. Press the button in to sound the horn.

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Engine Oil and Filter Change

Engine oil and oil filter should be changed after the first 50 hours of operation. After that, they should be changed every 100 hours of operation or annually, whichever comes first.

Engine Oil Draining

1. Turn the key switch to the OFF position and remove the key. Place the Forward/Reverse handle in the NEUTRAL position. Chock the front wheels.
2. Disconnect the battery cables, negative (–) cable first. **See WARNING "To avoid unintentionally starting..." on page 3.**
3. Remove the oil filler cap to allow the oil to drain properly.
4. Position a pan designed for oil changes under the drain plug **(Figure 17)**.
5. From the underside of the vehicle, use a socket- or box-end (do not use an open-end) wrench to remove the drain plug (1). Turn the plug counterclockwise and drain the engine oil into the pan. **See following WARNING.**

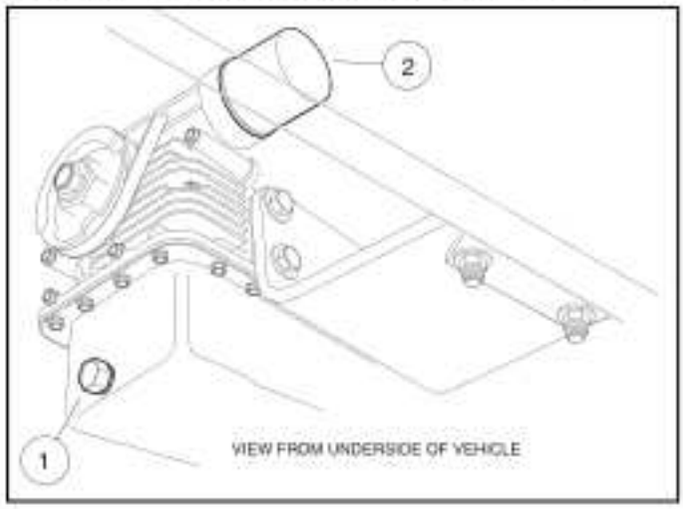
⚠ WARNING

- **Do not attempt to change engine oil when the engine is hot or even warm. Hot engine oil can cause skin burns.**
- **Wear safety glasses or approved eye protection when servicing the vehicle. Wear rubber gloves when handling oil drain plug, oil filter, and oil drain pan.**

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6. Clean the oil drain plug threads with solvent to remove oil and oil residue. Make sure that the compression washer remains on the drain plug. Inspect the compression washer and replace if necessary.
7. Use a socket- or box-end (do not use an open-end) wrench to replace the oil drain plug. Turn the plug clockwise and tighten to 42 Nm.

Figure 17 Engine Oil Drain Plug and Oil Filter



Engine Oil Filter Change

1. Drain the engine oil. See Engine Oil Draining on page 29.
2. Place the oil drain pan under the engine oil filter (2) **[Figure 17]**.
3. Remove the engine oil filter. Turn it counterclockwise and drain the residual oil in the filter port and filter into the oil drain pan. **See following NOTE.**

NOTE: An oil drip guard can be used to prevent excess oil from dripping onto the engine base plate. Use an empty quart (liter) container and cut the bottom off at an angle, then slide the open area of the container up and under the oil filter before removal. Position the port of the plastic container so oil will be directed into the oil pan [Figure 18]. A drip guard can be made by folding a piece of cardboard, thin metal, or plastic under the oil filter, forming a channel to direct the filter port oil into the drain pan.

Dispose of used oil according to the environmental laws and regulations for your area.

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DIESEL VEHICLE SPECIFICATIONS (CONT'D)

Machine Rating

Ground pressure with all terrain tyres	1,38–1,52 bar
Maximum bed load	476 kg

Weights

Operating weight	835 kg
Shipping weight	745 kg

Controls

Engine speed	Foot pedal
Starting	Key-type starter switch and shutdown. Glow plugs, automatically activated.
Cargo box	Electrical switch on dashboard
Service brake	Four-wheel hydraulic disc brake system controlled by foot pedal.
Parking brake	Dual rear mechanical disc brake operated by either foot pedal (to engage) or release handle (to disengage)
Vehicle steering	Self adjusting rack and pinion, tilt adjustable steering wheel
Travel speed	Foot pedal. Forward/reverse travel direction is selected by a transmission lever on the dashboard.

Engine

Make/Model	Kubota D722
Fuel	Diesel
Cooling	Liquid
Power (EEC 97/68/EC)	14,9 kW
Maximum governed speed	3800 RPM
Maximum torque at 2600 RPM (EEC 97/68/EC)	46,2 Nm
Number of cylinders	3
Displacement	0,7 l
Bore	67 mm
Stroke	68 mm
Lubrication	Pressure system
Crankcase ventilation	Closed breathing
Air filter	Dry replaceable cartridge with separate safety element
Ignition	Diesel-compression
Starting aid	Glow plugs

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