Utility Vehicle 2300

Bobcat®

Operation & Maintenance Manual

S/N A59W11001 & ABOVE (DIESEL)



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KEY SWITCH

The key switch (3) is mounted on the instrument panel to the right of the steering column **(Figure 4)**. It has four positions: PREHEAT, OFF, ON, and START.

Use the PREHEAT feature if the temperature falls below 23 °F (–5 °C). Do not hold the key in the PREHEAT position longer than 20 seconds. To preheat glow plugs in cold weather, turn the key to the PREHEAT position, and hold it there for 10-15 seconds. Then turn the key to the START position, and hold it there until the engine starts. If the engine does not start after 10-15 seconds, turn the key to the OFF position and repeat the procedure. Once the engine starts, release the key and it will return to the ON position. The engine will idle in neutral. The engine will continue to idle until the key is turned to the OFF position. **See previous WARNING, CAUTION and NOTE.**

Turn the key to PREHEAT position if the temperature falls below 23 °F (–5 °C). Do not hold the key in the PREHEAT position longer than 20 seconds.

⚠ WARNING

- **Moving parts! Keep clear of the engine compartment while the engine is running.**

CAUTION

- **Do not shift the Forward/Reverse handle while the accelerator pedal is pressed. Shift the handle only when the vehicle is at a complete stop and the engine is at idle. Failure to heed this caution could result in damage to the transmission.**

NOTE: *The key can be removed only when the key switch is in the OFF position.*

FORWARD/REVERSE CONTROL

The Forward/Reverse handle (1) is located on the right-hand side of the instrument panel. The handle has three distinct positions: FORWARD (A), NEUTRAL (B), and REVERSE (C) **(Figure 4)**. Push the handle up to operate the vehicle in the forward direction, or pull the handle down to operate the vehicle in reverse. The engine can be started only when the handle is in the NEUTRAL (middle) position. The engine must be at idle before shifting the Forward/Reverse handle. **See WARNING and CAUTION on page 14.**

Bobcat vehicles operate at a reduced speed in reverse. If equipped with a reverse buzzer, the reverse buzzer will sound as a warning when the Forward/Reverse handle is in the REVERSE position.

ACCELERATOR PEDAL

The accelerator pedal (4) is the pedal on the right **(Figure 4)**.

With the engine running and the Forward/Reverse handle in the FORWARD or REVERSE position, vehicle speed will increase as the accelerator pedal is pressed. When the accelerator pedal is released, it will return to the original position and the engine will idle. **See WARNING and CAUTION on page 14.**

BRAKE PEDAL

The brake pedal (5) is located to the immediate left of the accelerator pedal **(Figure 4)**. To slow or stop the vehicle, press the brake pedal.

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Maximum Gross Vehicle Weight

The maximum gross vehicle weight is the combination of the vehicle weight and the maximum vehicle capacity. The stated maximum gross vehicle weight must not be exceeded to maintain safe vehicle operation.

Maximum payload capacity must be reduced accordingly when any option or accessory is installed on the vehicle. **See following NOTE.**

NOTE: *A standard vehicle with a cab accessory that weighs 235 lb. (107 kg) must reduce its maximum payload capacity by 235 lb. (107 kg).*

Attachment Arm Rated Capacity*

The attachment arm rated capacity is the maximum operating load. This capacity includes the weight of the attachment arm and weight of the attachment's contents.

If other attachments such as Pallet Forks are used, the attachment arm capacity is reduced as the load center is moved forward.

* Attachment Arm Rated Capacity is determined by using the standard bucket and material of normal density, such as dirt or dry gravel. If other attachments such as Pallet Forks are used, the attachment arm capacity is reduced as the load center is moved forward. If very dense material is loaded, the volume must be reduced

Refer to **Figure 44** for the specifications listed below.

	BOBCAT 2300 DIESEL VEHICLE
A: Maximum occupant capacity	400 lb. (181 kg)
B + C + E: Maximum payload capacity	800 lb. (363 kg)
D: Trailer tongue weight	150 lb. force (667 N)
E: Attachment Arm Rated Capacity	500 lb. (227 kg)
A + B + C + E: Maximum vehicle capacity	1200 lb. (544 kg)
A + B + C + E + Vehicle Weight: Maximum gross vehicle weight limit	3200 lb. (1451 kg)

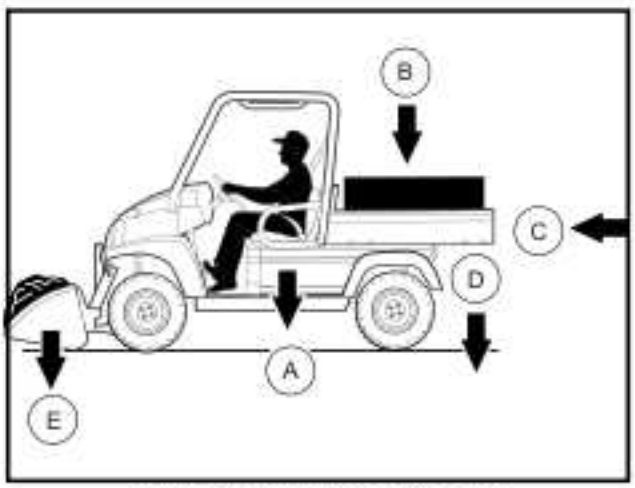


Figure 44 Vehicle Load Capacity

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PERIODIC LUBRICATION SCHEDULE

PERIODIC LUBRICATION SCHEDULE

REGULAR INTERVAL	SERVICE	LUBRICATION POINTS	RECOMMENDED LUBRICANT
Diesel vehicle: First change 50 hours – additional change for both every 100 hours of operation or annually, whichever comes first.	Change engine oil and oil filter	1	**Diesel vehicles:** 3 qt. (2.8 L) with filter **See Oil Viscosity on page 53.**
Monthly by owner or trained technician	Driveshaft	2	Chassis Lube (EP NLGI Grade 2)
Semiannually by owner or trained technician (or every 50 hours of operation, whichever comes first)	Rear suspension (2 fittings)	3	Chassis Lube (EP NLGI Grade 2)
	Attachment Arm and Interface (8 fittings)	4	Chassis Lube (EP NLGI Grade 2)
First change 50 hours – additional change every 100 hours of operation or annually, whichever comes first	Change front differential lubricant	5	5 oz. (150 mL) Bobcat Trans/Differential Fluid (P/N 6687120)
First change 50 hours – additional change every 300 hours of operation or annually, whichever comes first	Change rear differential lubricant	6	20 oz. (600 mL) Bobcat Trans/ Differential Fluid (PN 6687120)
	Change transmission lubricant	7	20 oz. (600 mL) Bobcat Trans/ Differential Fluid (P/N 6687120)

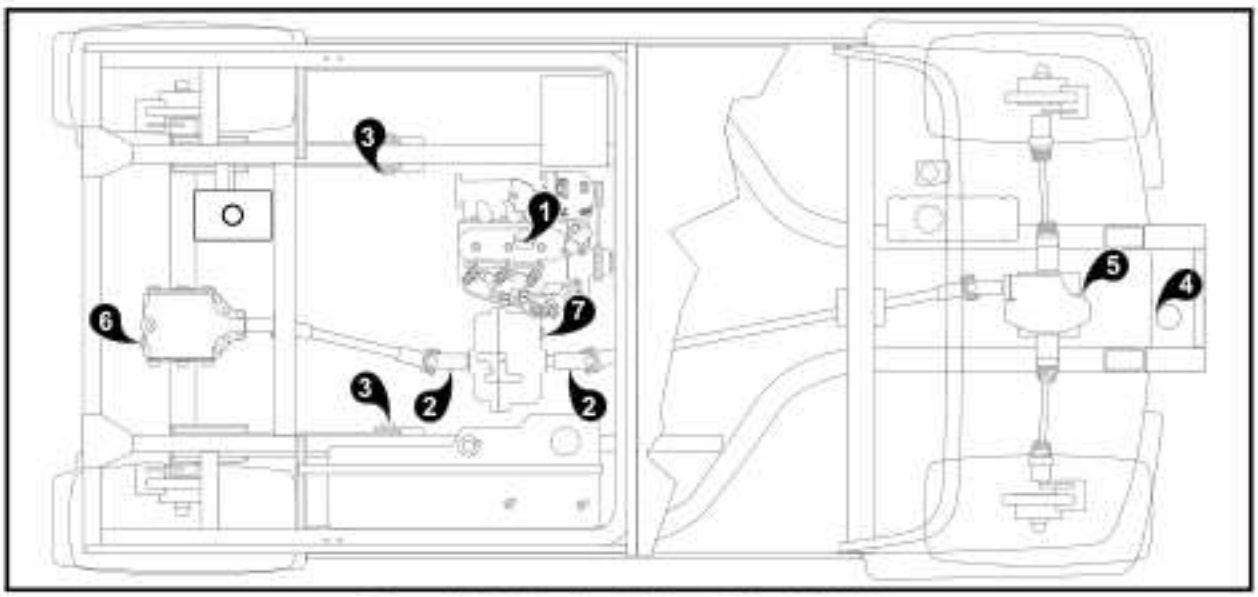
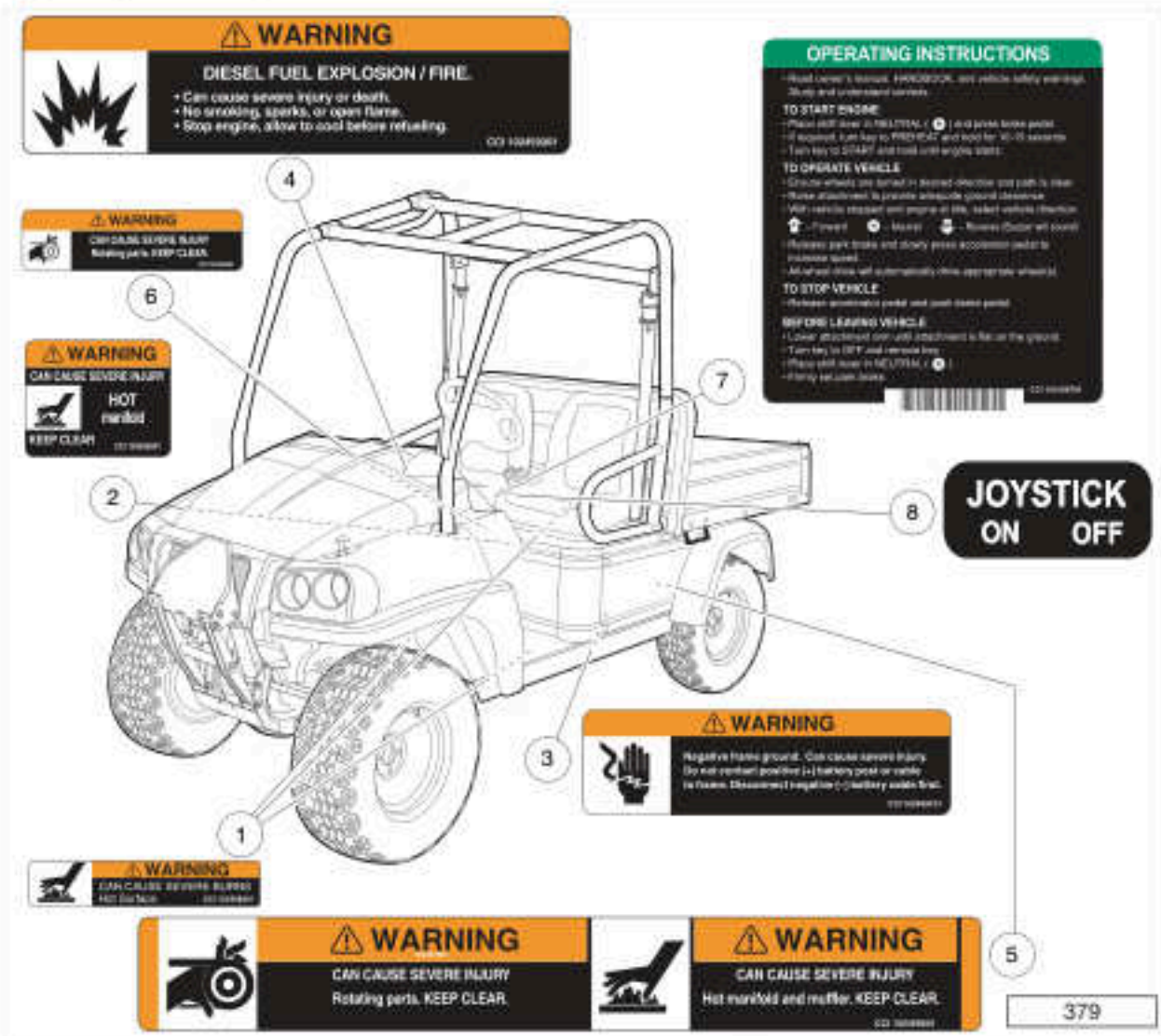


Figure 45 Lubrication Points – Diesel Vehicles

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2300 DIESEL VEHICLE



1	102458901	Decal, Hot Surface Warning (on coolant pipes and underside of seats) (on bed seal)	11		
2	102459001	Decal, Hot Manifold Warning (on engine, near manifold)	12		
3	102459101	Decal, Ground Warning (on vehicle frame, near battery)	13		
4	102459201	Decal, Diesel Fuel Warning (on frame, near fuel tank)	14		
5	102459501	Decal, Rotating/Hot Parts Warning (on frame near battery)	15		
6	102460201	Decal, Rotating Parts Warning (on vehicle body, under seat)	16		
7	103188701	Decal, Operating Instructions (on instrument panel)	17		
8	103319901	Decal, Joystick On/Off Switch (on hydraulic control box, above switch)	18		
9			19		
10			20		

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