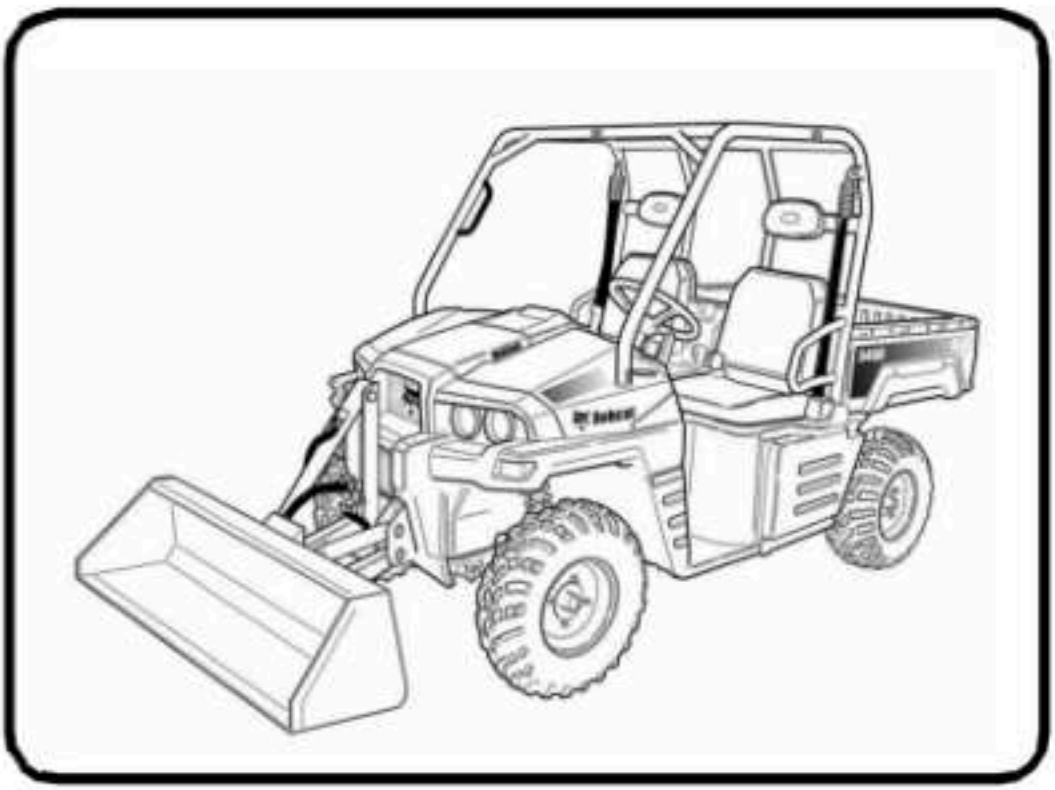
Bobcat®

Operation & Maintenance Manual
3450 Utility Vehicle

S/N AJNY11001 & Above



6989609 (2-11) Revised (4-11) (2)

Printed in U.S.A.

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REFERENCE INFORMATION

Write the correct information for YOUR Bobcat utility vehicle in the spaces below. Always use these numbers when referring to your Bobcat utility vehicle.

Utility Vehicle Serial Number _____

Engine Serial Number _____

_____

NOTES:

_____

_____

_____

YOUR BOBCAT DEALER:

_____

ADDRESS:

_____

PHONE:

_____

Bobcat Company
P.O. Box 128
Gwinner, ND 58040-0128
UNITED STATES OF AMERICA

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B-1410 Waterloo
BELGIUM

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FOREWORD

This Operation & Maintenance Manual was written to give the owner / operator instructions on the safe operation and maintenance of the Bobcat utility vehicle. READ AND UNDERSTAND THIS OPERATION & MAINTENANCE MANUAL BEFORE OPERATING YOUR BOBCAT UTILITY VEHICLE. If you have any questions, see your Bobcat dealer. This manual may illustrate options and accessories not installed on your Bobcat utility vehicle.

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BOBCAT COMPANY IS IS0 9001 CERTIFIED

ISO 9001 is an international standard that specifies requirements for a quality management system that controls the processes and procedures which we use to design, develop, manufacture and distribute Bobcat products.

British Standards Institute (**BSI**) is the Certified Registrar Bobcat Company chose to assess the Company's compliance with the ISO 9001 at Bobcat's manufacturing facilities in Gwinner and Bismarck, North Dakota (U.S.A.), Pontchateau (France), Dobris (Czech Republic) and the Bobcat corporate offices (Gwinner, Bismarck & West Fargo) in North Dakota. Only certified assessors, like BSI, can grant registrations.

ISO 9001 means that as a company we say what we do and do what we say. In other words, we have established procedures and policies, and we provide evidence that the procedures and policies are followed.

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.

REGULAR MAINTENANCE ITEMS

	ENGINE OIL FILTER 7018465		BATTERY 6670251
	FUEL FILTER 6988961		FRONT DIFFERENTIAL FLUID 2878408 - (1 qt)
	AIR FILTER 7016038		PREMIUM GEAR LUBRICANT 6903121 - (1 qt)
	AIR PRE-FILTER 7016382		ETHYLENE GLYCOL ANTI-FREEZE (1 U.S. gal) 6988096 - Premixed [-34°F (-37°C)] 6988097 - Concentrate
	CVT FILTER 7016384		BRAKE FLUID 6988958 - DOT 4 Brake Fluid - (12 oz)
	DRIVE BELT 7018602		SYNTHETIC GEARCASE FLUID 2878409 - (1 qt)
ENGINE OIL 6903105 . . . . SAE 15W/40 CE/SG (12 qt) 6903106 . . . . SAE 15W/40 CE/SG (1 U.S. gal) 6903113 . . . . SAE 15W/40 CE/SG (2.5 U.S. gal) 6903107 . . . . SAE 10W/30 CE/SG (12 qt) 6903108 . . . . SAE 10W/30 CE/SG (1 U.S. gal) 6903112 . . . . SAE 10W/30 CE/SG (2.5 U.S. gal)			FLUID, HYDRAULIC 6904026 - (1 U.S. gal)
			ALTERNATOR BELT 7020608
		GREASE 6903122	Multi Purpose #2 (14 oz Tube)

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Operating On Public Roads

Operating this vehicle on public streets, roads or highways could result in a collision with another vehicle.

Never operate this vehicle on any public street, road or highway, including dirt and gravel roads. In some areas it is unlawful to operate this vehicle on public streets, roads and highways.

Turning Improperly

Turning improperly could cause loss of traction, loss of control, accident or overturn. Never turn abruptly or at sharp angles. Never turn at high speeds. Practice turning at slow speeds before attempting a turn at faster speeds. Keep the attachment arm low and slow down when turning.

Jumps And Stunts

Attempting wheelies, jumps and other stunts increases the risk of an accident or overturn. Never attempt wheelies, jumps, or other stunts. Avoid exhibition driving.

Operating In Unfamiliar Terrain

Failure to use extra caution when operating on unfamiliar terrain could result in an accident or overturn. Unfamiliar terrain may contain hidden rocks, bumps, or holes that could cause loss of control or overturn.

Travel slowly and use extra caution when operating on unfamiliar terrain. Always be alert to changing terrain conditions.

Improper Tire Maintenance

Operating this vehicle with improper tires or with improper or unenven tire pressure could cause loss of control or accident.

Always use the size and type of tires specified for your vehicle.

Always maintain proper tire pressure as described in this manual and on the safety signs (decals).

Operating On Frozen Bodies Of Water

Severe injury or death can result if the vehicle and / or the operator fall through the ice. Never operate on a frozen body of water.

Unauthorized Use Of The Vehicle

Leaving the key in the vehicle can lead to unauthorized use of the utility vehicle, which could result in an accident or overturn. Always remove the key when the vehicle is not in use.

Driving On Slippery Surfaces

⚠ WARNING

AVOID SERIOUS INJURY OR DEATH

Skidding or sliding can cause loss of control or overturn (if tires regain traction unexpectedly). When operating on slippery surfaces such as ice or loose gravel, reduce speed and use extra care to reduce the chance of skidding or sliding out of control. Do not operate on excessively slippery surfaces.

W-2822-0510

Whenever riding on slippery surfaces such as wet trails or loose gravel, during freezing weather, follow these precautions:

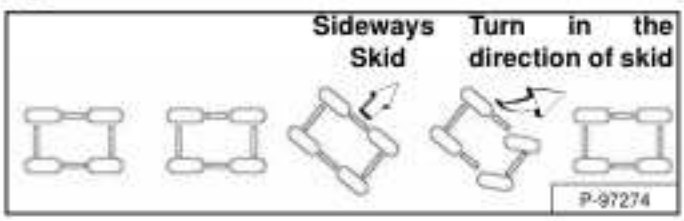
1. Do not operate on excessively rough, slippery area.
2. Slow down before entering slippery areas.
3. Maintain a high level of alertness, reading the trail and avoiding quick, sharp turns, which can cause skids.
4. Engage Four Wheel Drive (4x4) before wheels begin to loose traction.

IMPORTANT

Severe damage to the drive train may occur if the Four Wheel Drive (4x4) is engaged while the wheels are spinning. Always allow the wheels to stop spinning before engaging Four Wheel Drive (4x4).

I-2293-0510

Figure 64



5. Correct a skid by turning the steering wheel in the direction of the skid. *Never apply the brakes during a skid.*

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Removing And Replacing Oil And Filter

Follow the service interval for replacing the engine oil and filter (See SERVICE SCHEDULE on Page 78.)

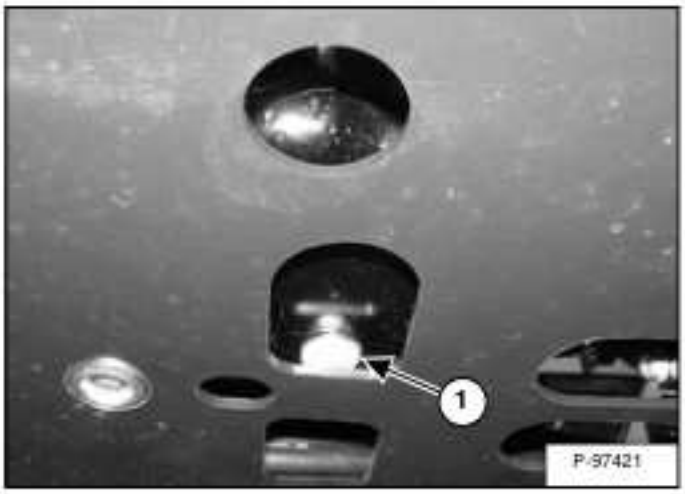
Run the engine until it is at operating temperature.

Position the utility vehicle on a flat and level surface. Stop the engine and engage the park brake.

Remove the seat. (See SEAT on Page 92.)

Clean the engine oil pan around the drain plug and clean the engine around the oil filter.

Figure 129

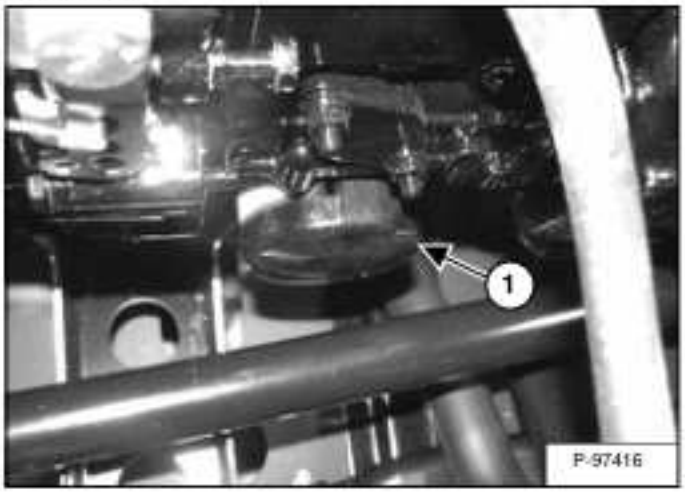


The engine oil drain plug is located on the bottom of the oil pan (Item 1) **[Figure 129]**. Access the drain plug through the hole in the belly pan.

Remove the drain plug (Item 1) **[Figure 129]**. Drain the oil into a container and recycle or dispose of used oil in an environmentally safe manner.

Reinstall the drain plug and tighten to 34 N•m (25 ft-lb).

Figure 130



Remove the oil filter (Item 1) **[Figure 130]** and clean the filter housing surface.

Use a genuine Bobcat filter only.

Put clean oil on the new filter gasket, install the filter and and hand tighten until the gasket contacts the surface, then an additional 1/2 - 3/4 turn.

⚠ WARNING

AVOID INJURY OR DEATH

Always clean up spilled fuel or oil. Keep heat, flames, sparks or lighted tobacco away from fuel and oil. Failure to use care around combustibles can cause explosion or fire.

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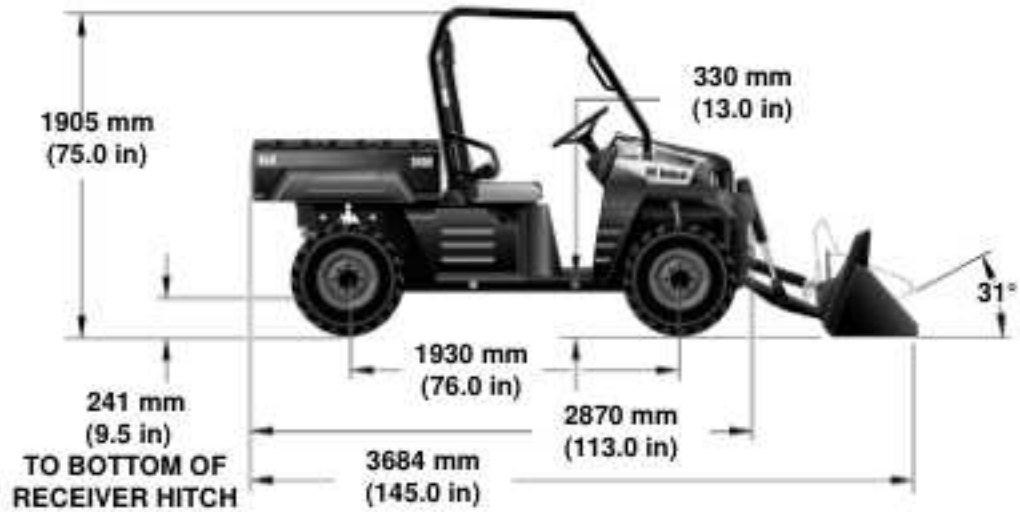
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UTILITY VEHICLE SPECIFICATIONS

(3450) Dimensions

- Dimensions are given for utility vehicle equipped with standard tires. All dimensions are shown in millimeters. Respective imperial dimensions are given in inches enclosed by parentheses.
- Where applicable, specification conform to SAE, ANSI or ISO standards and are subject to change without notice.







Turning Radius - Turf Mode = 2515 mm (99 in)
Turning Radius - Two Wheel Drive Mode = 2832 mm (111.5 in)
Turning Radius - Four Wheel Drive (4x4) = 2946 mm (116 in)

Box Inside Dimensions:
1371 x 927 x 292 mm
(54.0 x 36.5 x 11.5 in)

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Safe Operation Is The Operator's Responsibility

Safety Alert Symbol

This symbol with a warning statement means: "Warning, be alert! Your safety is involved!" Carefully read the message that follows.

WARNING

Operator must have instructions before operating the utility vehicle. Untrained operators can cause injury or death.

W-2855-0510

IMPORTANT

This notice identifies procedures which must be followed to avoid damage to the utility vehicle.

I-2317-0510

DANGER

The signal word DANGER on the utility vehicle and in the manuals indicates a hazardous situation which, if not avoided, will result in death or serious injury.

D-1022-0510

WARNING

The signal word WARNING on the utility vehicle and in the manuals indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.

W-2856-0510

The Bobcat utility vehicle, attachments and accessories must be in good operating condition before use.

Check all of the items on the Daily Inspection as shown in the Operation & Maintenance Manual.

Safe Operation Needs A Qualified Operator

For an operator to be qualified, he or she must not use drugs or alcoholic drinks which impair alertness or coordination while working. An operator who is taking prescription drugs must get medical advice to determine if he or she can safely operate the utility vehicle, attachments and accessories.

A Qualified Operator Must Do The Following:

Understand the Written Instructions, Rules and Regulations

- The written instructions from Bobcat Company include the Delivery Report, Operation & Maintenance Manual, Operator's Handbook and utility vehicle signs (decals).
- Check the rules and regulations at your location. The rules may include an employer's work safety requirements. Regulations may apply to local driving requirements.

Have Training with Actual Operation

- Operator training must consist of a demonstration and verbal instruction. This training is given by your Bobcat dealer before the product is delivered.
- The new operator must start in an area without bystanders and use all the controls until he or she can operate the vehicle, attachments and accessories safely under all conditions of the work area. Always fasten seat belt before operating.
- The utility vehicle Safety Video is available from your Bobcat dealer in english and spanish. It provides information for safe vehicle operation.

Know the Work Conditions

- Know the weight of the materials being handled. Never exceed the vehicle Load Capacities. Material which is very dense will be heavier than the same volume of less dense material. Reduce the size of the load if handling dense material.
- The operator must know any prohibited uses or work areas, for example, he or she needs to know about excessive slopes.
- Know the location of any underground lines. Call local utilities or the TOLL FREE phone number found in the *Before Operation* Section of this manual.
- Wear tight fitting clothing. Always wear safety glasses when doing maintenance or service. Safety glasses, respiratory equipment and hearing protection are required for some work.

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