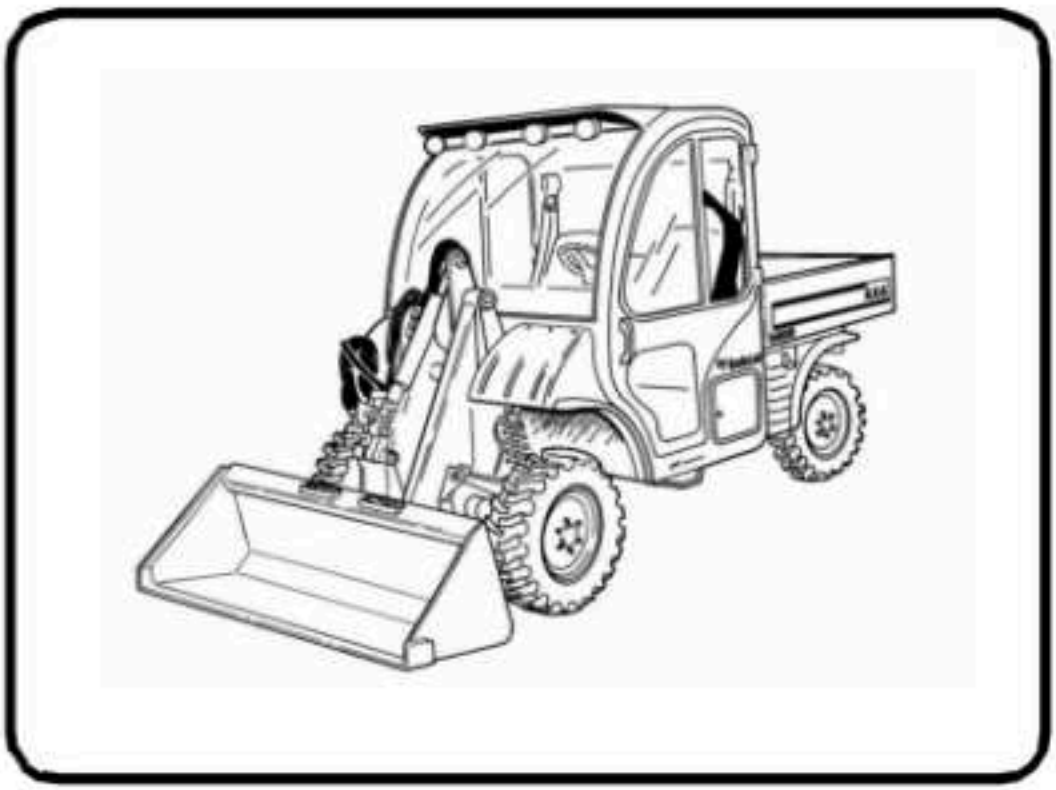
Bobcat®

Operation & Maintenance Manual
Toolcat™ 5600 Utility Work Machine

S/N A0W111001 & Above



EQUIPPED WITH TOOLCAT INTERLOCK CONTROL SYSTEM (TICS™)

6904791 (2-10) Revised (1-11) (6)

Printed in U.S.A.

© Bobcat Company 2011

MidWestTech | Bobcat Toolcat 5600 Utility Work Machine Operation & Maintenance Manual... Order the manual at mid-west-tech.com >

CONTENTS

CONTENTS 3
FOREWORD 5
SAFETY & TRAINING RESOURCES 11
OPERATING INSTRUCTIONS 21
PREVENTIVE MAINTENANCE 63
SYSTEM SETUP & ANALYSIS 119
MACHINE SIGN TRANSLATIONS 127
SPECIFICATIONS 141
WARRANTY 149
ALPHABETICAL INDEX 153

REFERENCE INFORMATION

Write the correct information for YOUR Bobcat Utility Work Machine in the spaces below. Always use these numbers when referring to your Bobcat Utility Work Machine.

Work Machine 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

Doosan Benelux SA
Drève Richelle 167
B-1410 Waterloo
BELGIUM

MidWestTech | Bobcat Toolcat 5600 Utility Work Machine Operation & Maintenance Manual... Order the manual at mid-west-tech.com >

FOREWORD

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

BOBCAT COMPANY IS IS0 9001 CERTIFIED 7

REGULAR MAINTENANCE ITEMS 7

SERIAL NUMBER LOCATIONS 8
- Utility Work Machine Serial Number 8
- Engine Serial Number 8

DELIVERY REPORT 8

UTILITY WORK MACHINE IDENTIFICATION 9

FEATURES, ACCESSORIES AND ATTACHMENTS 10
- Standard Items 10
- Options And Accessories 10
- Buckets Available 10
- Attachments 10

MidWestTech | Bobcat Toolcat 5600 Utility Work Machine Operation & Maintenance Manual... Order the manual at mid-west-tech.com >

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

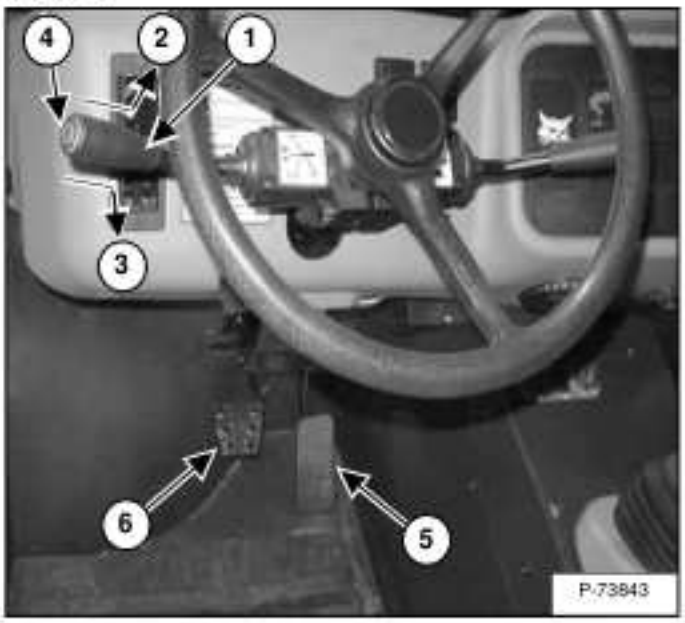
 ENGINE OIL FILTER 6675517	 BATTERY 6673865
  HYDRAULIC / HYDROSTATIC FILTER 6668819 CASE DRAIN FILTER 6516722	 FLUID, HYDRAULIC / HYDROSTATIC 6903117 - (2.5 U.S.gal) 6903118 - (5 U.S.gal) 6903119 - (55 U.S.gal)
 AIR FILTER, OUTER 6983021	 HYDRAULIC BREATHER CAP 6674690
 AIR FILTER, INNER 6983022	 PROPYLENE GLYCOL ANTI-FREEZE (1 U.S.gal) 6724094 - Premixed [-37°C (-34°F)] 6724354 - Concentrate
 FUEL FILTER 6667352	 TRANSAXLE LUBRICANT 6687120 - (2.5 U.S.gal)
MOTOR 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)	6903109 . . . . . SAE 30W CE/SG (12 qt) 6903110 . . . . . SAE 30W CE/SG (1 U.S.gal) 6903111 . . . . . SAE 30W CE/SG (2.5 U.S.gal)

MidWestTech | Bobcat Toolcat 5600 Utility Work Machine Operation & Maintenance Manual... Order the manual at mid-west-tech.com >

TRAVEL DIRECTION CONTROL LEVER

Operation

Figure 17



The Travel Direction Control Lever (Item 1) **[Figure 17]** has three positions; Forward - PARK - Reverse (**FPR**).

Pull lever toward steering wheel and move the lever up (Item 2) **[Figure 17]** for forward travel.

Pull lever toward steering wheel and move the lever down (Item 3) **[Figure 17]** for reverse travel.

Put the lever in PARK whenever you stop the machine. The PARK position automatically engages the parking brake.

NOTE: The Travel Direction Control Lever must be in PARK to start the engine.

Two-Speed Control

Press the button (Item 4) **[Figure 17]** at the end of lever to engage high range. (High Speed icon, Item 36, **[Figure 8]**, will be ON.) Press again to disengage.

DRIVE PEDAL

Operation

Use the Travel Direction Control Lever to select Forward or Reverse travel then press the Drive Pedal (Item 5) **[Figure 17]** to move the machine. To increase the speed of the machine, continue to press the Drive Pedal. Release the Drive Pedal to stop the machine.

BRAKE PEDAL

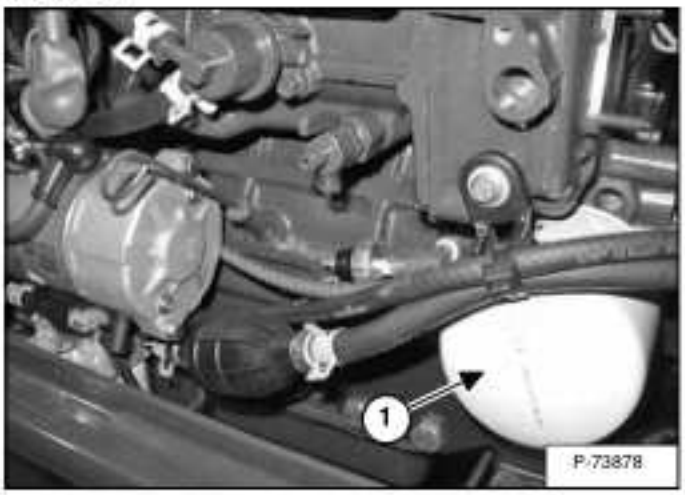
Operation

Press the Brake Pedal (Item 6) **[Figure 17]** to stop the machine. The Brake Pedal will decelerate the machine faster than releasing the Drive Pedal only. Continue to press and hold the Brake Pedal to temporarily hold the machine in position until the Travel Direction Control Lever is returned to the PARK position or drive operation is resumed.

MidWestTech | Bobcat Toolcat 5600 Utility Work Machine Operation & Maintenance Manual... Order the manual at mid-west-tech.com >

Removing And Replacing Oil And Filter (Cont'd)

Figure 120

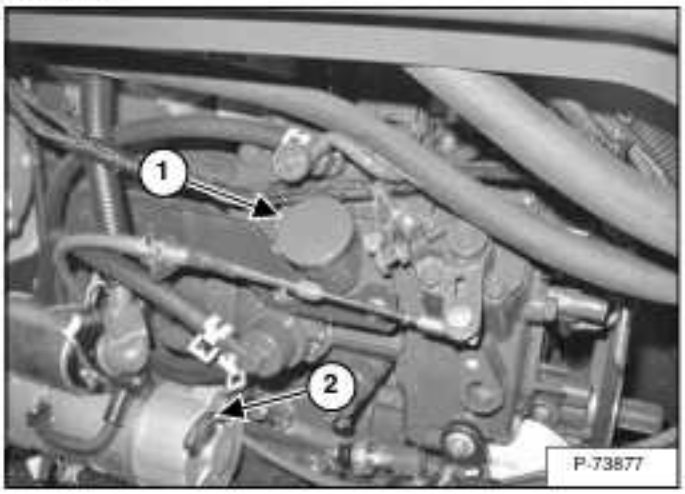


Remove the oil filter (Item 1) **[Figure 120]** and clean the filter housing surface.

Use genuine Bobcat filter only.

Put clean oil on the new filter gasket, install the filter and hand tighten.

Figure 121



Remove the fill cap (Item 1) **[Figure 121]**.

Put the correct quantity of oil in the engine. (See Capacities on Page 147.)

Start the engine and let it run for several minutes. Stop the engine and check for leaks at the filter.

Remove the dipstick (Item 2) **[Figure 121]** and check the oil level. (See Checking And Adding Engine Oil on Page 86.)

Add oil as needed if it is not at the top mark on the dipstick.

Install the dipstick.

⚠ 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.

W-2103-0508

MidWestTech | Bobcat Toolcat 5600 Utility Work Machine Operation & Maintenance Manual... Order the manual at mid-west-tech.com >

(5600) UTILITY WORK MACHINE SPECIFICATIONS (CONT'D)

Performance

Load Capacity - Loader Rated Operating Capacity - Cargo Box Load (Maximum) - Machine Rated Capacity - Trailer Hitch Tongue Weight (Max) - Total Rated Capacity	680 kg (1500 lb) 907 kg (2000 lb) 997 kg (2200 lb)* 227 kg (500 lb) 1905 kg (4200 lb)** * Combined weight of load on lift arm, cargo box load, operator and passenger. ** Combined weight of the load on lift arm. cargo box load, operator, passenger and tow weight (If equipped with receiver hitch)	
Tipping Load (SAE Rating)	1361 kg (3000 lb)	
Operating Weight	2490 kg (5490 lb)	
Travel Speed - Work Mode (Forward & Reverse) - Low Range (Forward & Reverse) - High Range (Forward Only)	With 27 Inch Tires 0 - 13,7 km/h (0 - 8.5 mph) 0 - 13,7 km/h (0 - 8.5 mph) 0 - 27,4 km/h (0 - 17 mph)	With 29 Inch Tires 0 - 14,5 km/h (0 - 9 mph) 0 - 14,5 km/h (0 - 9 mph) 0 - 29 km/h (0 - 18 mph)

Controls

Vehicle Steering	Steering Wheel
Loader Hydraulics - Lift and Tilt - Front Auxiliary	 Joystick Switch on Joystick
Engine	Hand lever engine speed control; key-type starter switch (or optional keyless start).
Starting Aid	Glow Plugs automatically activated as needed.
Service Brake	Hydrostatic transmission system controlled by foot pedal.
Parking Brake (Std.)	Spring Applied Pressure Release (SAPR) activated by the park position of the travel direction control lever or automatically when engine is stopped.

Engine

Make / Model	Kubota V2003-M-DI-T
Fuel / Cooling	Diesel / Liquid
Horsepower (SAE Net)	41,8 kW (56 hp) @ 2800 rpm
Low Idle rpm	1025 - 1225 rpm
High Idle rpm	2875 - 2975 rpm
Number of Cylinders	4
Displacement	2,0 L (122.0 in^3)
Bore / Stroke	83,0 mm / 92,4 mm (3.268 in / 3.638 in)
Lubrication	Gear Pump Pressure System with Filter
Crankcase Ventilation	Open Breathing
Air Cleaner	Replaceable dry paper cartridge with separate safety element
Ignition	Compression
Engine Coolant	Propylene Glycol / Water Mixture
Starting Aid	Glow Plugs

MidWestTech | Bobcat Toolcat 5600 Utility Work Machine Operation & Maintenance Manual... Order the manual at mid-west-tech.com >

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 running the machine. Untrained operators can cause injury or death.

W-2001-1285

IMPORTANT

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

I-2019-0284

DANGER

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

D-1002-1107

WARNING

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

W-2044-1107

The Bobcat utility work machine and attachment must be in good operating condition before use.

Check all of the items on the Bobcat Service Schedule Decal under the 8-10 hour column or 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 a machine and attachment.

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 machine 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 or use of a Slow Moving Vehicle (SMV) emblem. Regulations may identify a hazard such as a utility line.

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 machine and attachment safely under all conditions of the work area. Always fasten seat belt before operating.
- Operator Training Courses are available from your Bobcat dealer in English and Spanish. They provide information for safe and efficient equipment operation. Safety videos are also available.

Know the Work Conditions

- Know the weight of the materials being handled. Avoid exceeding the Rated Machine Load Capacities of the machine. 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, hearing protection or Special Applications Kits are required for some work. See your Bobcat dealer about Bobcat Safety Equipment for your model.

SI TC-0208

MidWestTech | Bobcat Toolcat 5600 Utility Work Machine Operation & Maintenance Manual... Order the manual at mid-west-tech.com >