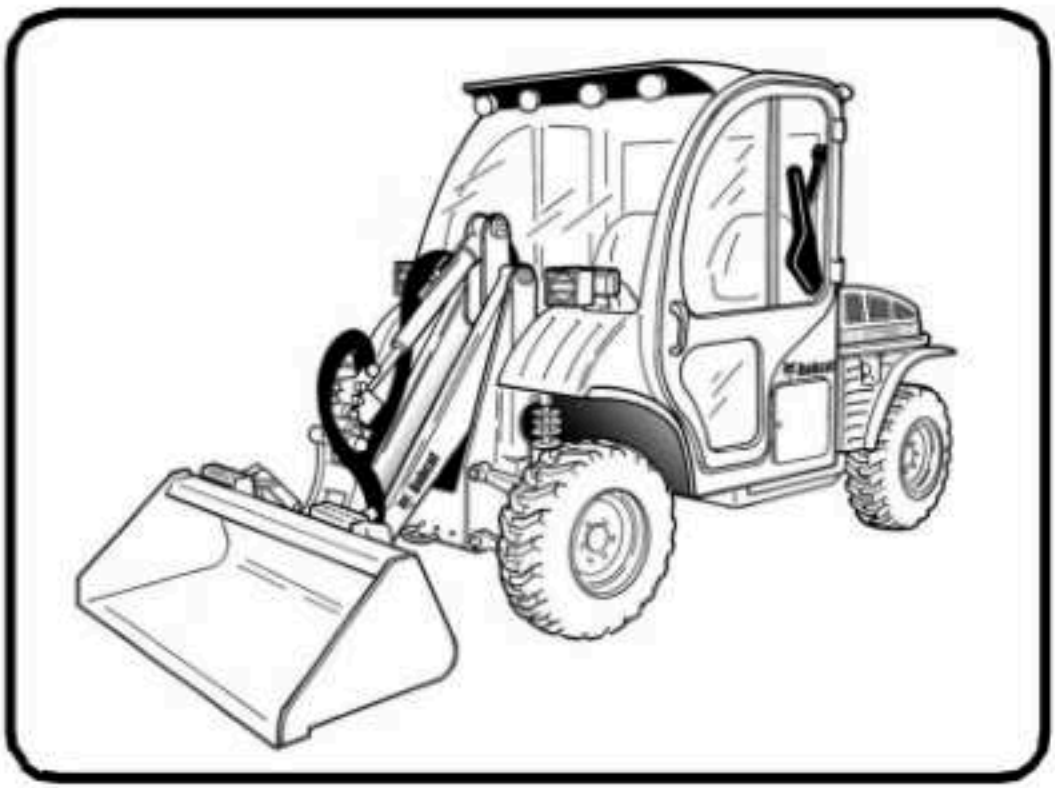
Bobcat®

Operation & Maintenance Manual
Toolcat™ 5610 Utility Work Machine

S/N A7Y711001 & Above



EQUIPPED WITH TOOLCAT INTERLOCK CONTROL SYSTEM (TICS™)

6986803 (2-10) Revised (3-11) (2)

Printed in U.S.A.

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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

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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 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 machines.

BOBCAT COMPANY IS IS0 9001 CERTIFIED 7

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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.

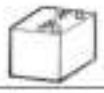
British Standards Institute (**BSI**) is the Certified Registrar Bobcat Company chose to assess the Company's compliance with the ISO 9001 at Bobcat's manufacturing facilities in Gwinner and Bismarck, North Dakota (U.S.A.), Pontchateau (France), Dobris (Czech Republic) and the Bobcat corporate offices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

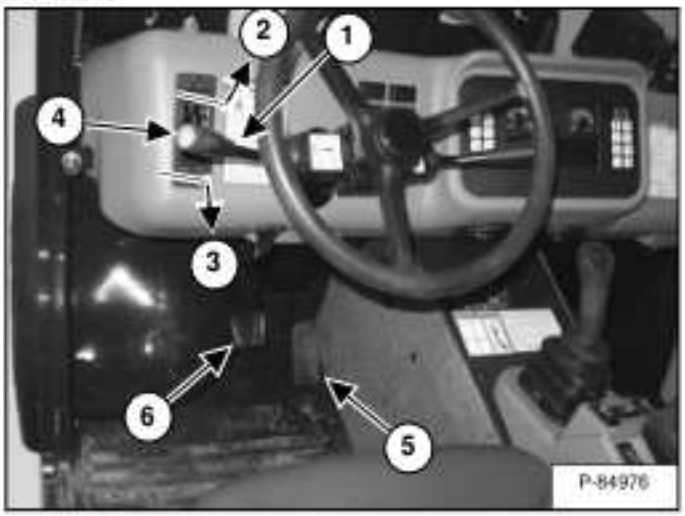
 ENGINE OIL FILTER 6675517	 BATTERY 6673865
  HYDRAULIC / HYDROSTATIC FILTER 6668819 CASE DRAIN FILTER 6516722	 FLUID, HYDRAULIC / HYDROSTATIC 6903117 - (2.5 U.S. gal) 6903118 - (5 U.S. gal) 6903119 - (55 U.S. gal)
 AIR FILTER, OUTER 6983021	 HYDRAULIC BREATHER CAP 6674690
 AIR FILTER, INNER 6983022	 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)

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TRAVEL DIRECTION CONTROL LEVER

Operation

Figure 16



The Travel Direction Control Lever (Item 1) **[Figure 16]** has three positions; Forward - PARK - Reverse (**FPR**).

Pull lever toward steering wheel and move the lever up (Item 2) **[Figure 16]** for forward travel.

Pull lever toward steering wheel and move the lever down (Item 3) **[Figure 16]** 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 16]** 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 16]** 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 16]** 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.

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LUBRICATING THE UTILITY WORK MACHINE

Lubrication Locations

Lubricate as specified for the best performance of the machine (See SERVICE SCHEDULE on Page 97.)

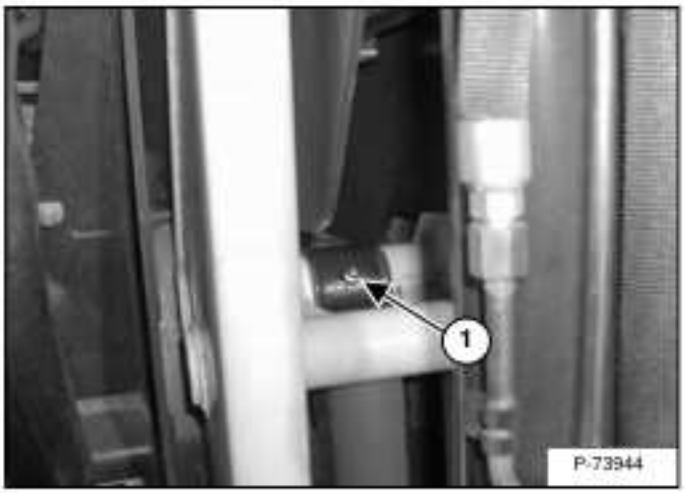
Record the operating hours each time you lubricate the machine.

Always use a good quality lithium based multi-purpose grease. Apply lubricant until extra grease shows.

Stop the engine.

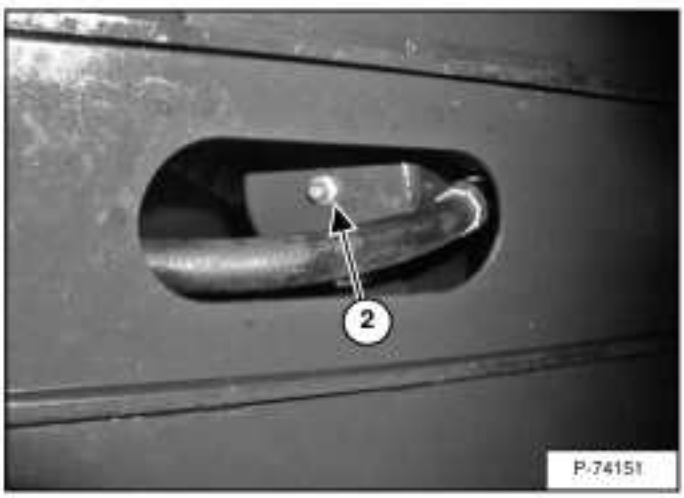
Lubricate the following:

Figure 219



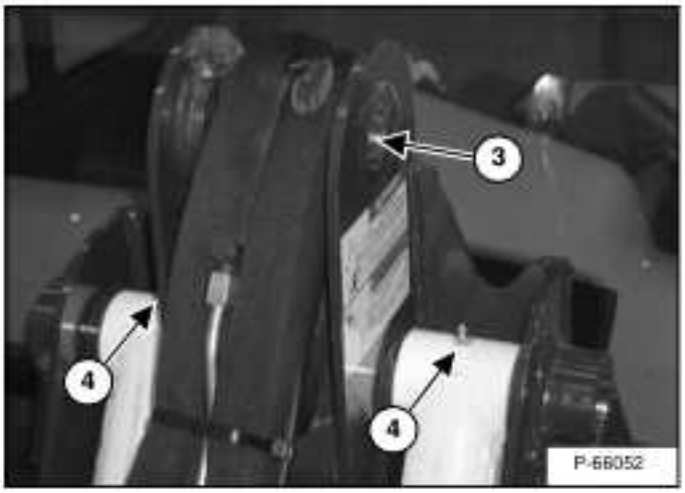
1. Rod End Lift Cylinder (1) **[Figure 219]** (between arm uprights).

Figure 220



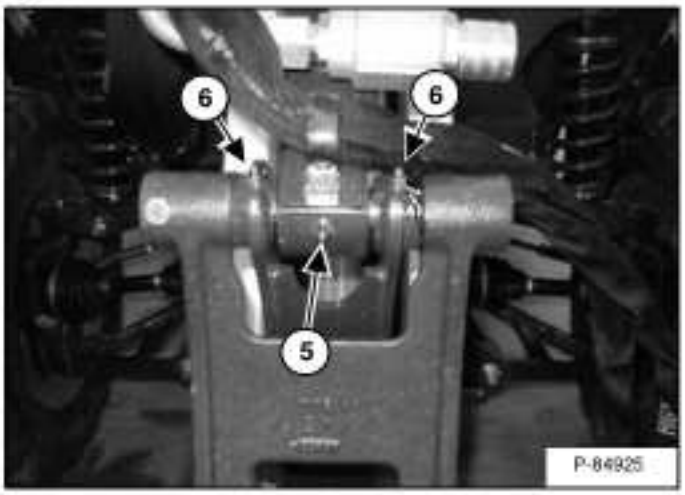
2. Base End Lift Cylinder (1) **[Figure 220]** (under machine).

Figure 221



3. Base End Tilt Cylinder Pivot Pin (1) **[Figure 221]**.
4. Lift Arm Pivot (2) **[Figure 221]**.

Figure 222



5. Rod End Tilt Cylinder (1) **[Figure 222]**.
6. Upper Guide Link Pivot (2) **[Figure 222]**.

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Performance

Load Rated Operating Capacity (ROC)	*Without Three-Point Hitch* - 590 kg (1300 lb) *With Three-Point Hitch* - 680 kg (1500 lb) Bucket weight - 1575 mm (62 in) - 117 kg (257 lb)
Three-Point Hitch Lift Capacity - at 610 mm (24 in) behind lift point	*With Empty Bucket* -805 kg (1775 lb) *Without Attachment* -658 kg (1450 lb)
Drawbar Tongue Weight (Max) Tow Weight (Max)	227 kg (500 lb) 1814 kg (4000 lb)
Tipping Load (SAE Rating)	*Without Three-Point Hitch* - 1179 kg (2600 lb) *With Three-Point Hitch* - 1361 kg (3000 lb)
Operating Weight	2558 kg (5640 lb) [Operating Weight includes the following: machine equipped with cab, HVAC, Road / Work Lights, 29 x 10.5 - 15 trac tires, PTO, Three-Point Hitch, Power Bob-Tach, Rear Remote Hydraulics, High Flow Auxiliary Hydraulics, Full Fluids, 1575 mm (62 in) Bucket and a 75 kg (165 lb) Operator]

Controls

Vehicle Steering	Steering Wheel
Loader Hydraulics - Lift and Tilt - Front Auxiliary - Rear Remote Auxiliary (Option)	 Joystick Switch on Joystick Switches on Center Console
Three-Point Hitch	Switches on Center Console
PTO	Switch on Center Console
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.

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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 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 / implement 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 / implement 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 TC3PT-0608

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