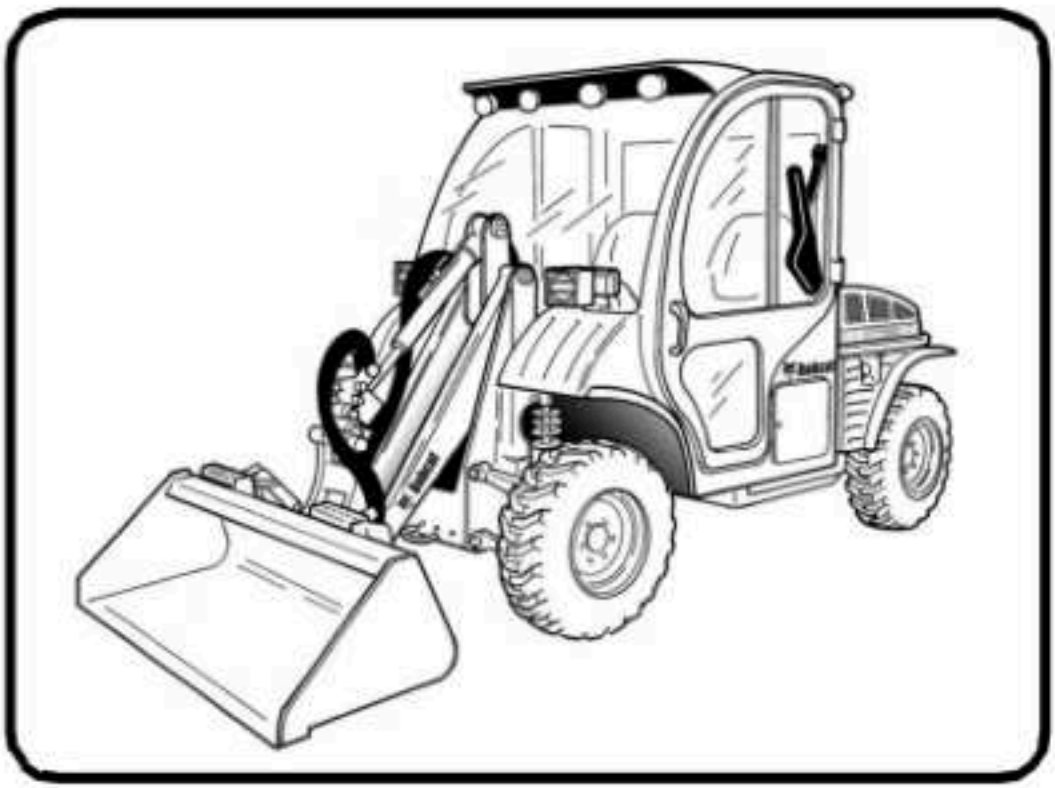
Bobcat®

Operation & Maintenance Manual
Toolcat™ 5610 Utility Work Machine

S/N APFB11001 & Above



EQUIPPED WITH TOOLCAT INTERLOCK CONTROL SYSTEM (TICS™)

6990053 (12-10) Revised (3-11) (1)

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

DELIVERY REPORT 8

UTILITY WORK MACHINE IDENTIFICATION 9

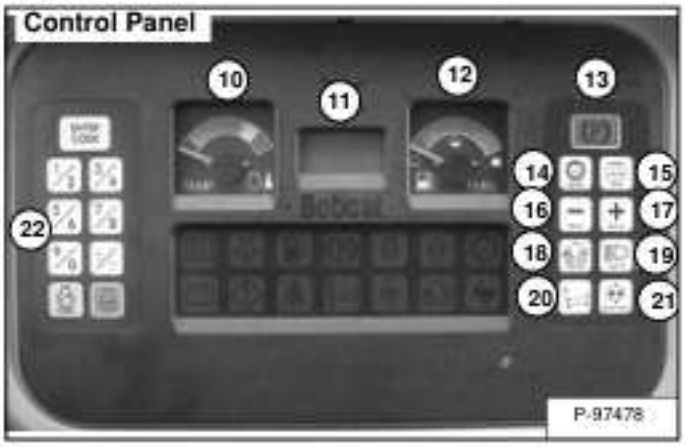
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- Options And Accessories 10
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- Attachments 11
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OPERATOR CONTROLS AND INSTRUMENT PANELS (CONT'D)

Control Panel

Figure 7



REF	DESCRIPTION	FUNCTION / OPERATION
10	Engine Temperature Gauge	Shows engine coolant temperature.
11	Display Screen (Liquid Crystal Display)	Speedometer/Hourmeter/Job/ engine rpm / PTO rpm and Diagnostic Service Codes.
12	Fuel Gauge	Shows amount of fuel in the tank.
13	Parking Brake	Press to engage; press again to disengage. (Parking Brake Icon, Item 26.**[Figure 8]** will be ON.)
14	WORK	Press button to engage Work Mode. (Work Icon Item 29, **[Figure 8]**, will be ON.) Press again to disengage.
15	SPEED / HOURS / RPM / PTO RPM	Press button to toggle display screen between Speed (mph or km/h), Hours, Job Clock, Engine rpm and PTO rpm.
	Speed	Shows machine speed in mph. While on speed display screen, press and hold to change units of measure (English / Metric).
	Hours	Shows the total operating hours of the machine.
	Job	Sets the display to record accumulated hours for a particular job. While on job display screen, press and hold until the display screen returns to zero. This process will clear the accumulated hours and begin recording job clock time again. (This does not affect the hourmeter which continues to record the total operating hours of the machine.)
15	SPEED / HOURS / RPM (Cont'd)	
	RPM	Shows the engine rpm.
	PTO RPM	Shows PTO shaft rpm. PTO shaft rpm will display when PTO is engaged. (Button 15 can be pressed to toggle other functions on or off after the PTO rpm is displayed.)
	Additional Menu Functions	Used to enter control panel setup mode. (See CONTROL PANEL SETUP on Page 154.)
16	DECEL	Press to DECREASE vehicle speed while cruise control is engaged.
17	ACCEL	Press to INCREASE vehicle speed while cruise control is engaged.
18	CRUISE	While traveling at the desired speed, press the button to continue traveling at that speed. (Cruise Control Icon, Item 35, **[Figure 8]**, will be ON.) Press brake or press button again to disengage.
19	LIGHTS / CODES	Press & release to turn lights ON; press & release again to turn OFF.
	Service Codes	Used to reveal service codes in display screen. (See Viewing Service Codes on Page 151.)
20	Lift And Tilt Transport Lock	Press to lock out lift and tilt functions when traveling on a road.
21	AUX-HYD (Std.)	Press to select Auxiliary Hydraulics. (Auxiliary Icon, Item 28, **[Figure 8]**, will be ON.) (Must be selected for High Flow to operate.) Press a second time to deselect Auxiliary Hydraulics. **NOTE:** Auxiliary Hydraulics must be activated before Front Auxiliary Hydraulics or PTO can be engaged. (See Front Auxiliary Hydraulics Operation on Page 39.)(See Engaging PTO on Page 49.)
22	Keypad for Keyless Start (Option)	(See Keyless on Page 54.)

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ENGINE LUBRICATION SYSTEM (CONT'D)

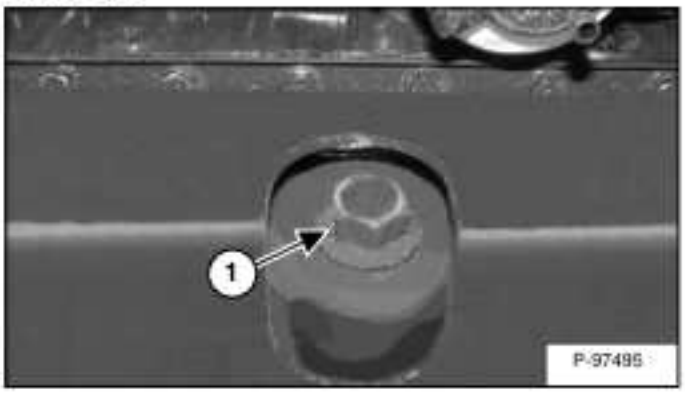
Removing And Replacing Oil And Filter

Follow the service interval for replacing the engine oil and filter (See SERVICE SCHEDULE on Page 97.)

Run the engine until it is at operating temperature.

Stop the engine.

Figure 164



The engine oil drain is located under the machine below the right side access cover.

IMPORTANT

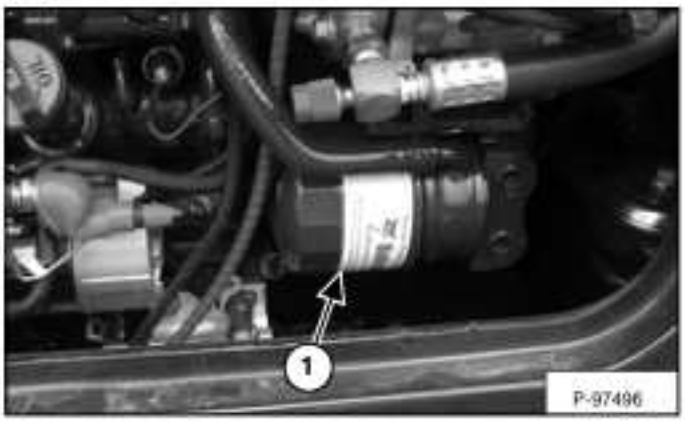
Fluid such as engine oil, hydraulic fluid, coolants, grease, etc. must be disposed of in an environmentally safe manner. Some regulations require that certain spills and leaks on the ground must be cleaned in a specific manner. See local, state and federal regulations for the correct disposal.

I-2067-0499

Remove the drain plug (Item 1) **[Figure 164]**. Drain the oil into a container and recycle or dispose of used oil in an environmentally safe manner.

Reinstall the drain plug.

Figure 165

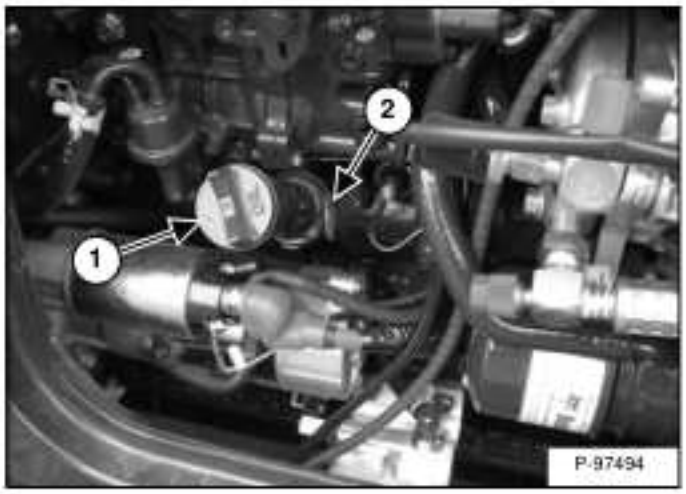


Remove the oil filter (Item 1) **[Figure 165]** and clean the filter housing surface.

Use genuine Bobcat filter only.

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

Figure 166



Remove the fill cap (Item 1) **[Figure 166]**.

Put the correct quantity of oil in the engine (See Capacities on Page 180.)

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 166]** and check the oil level. (See Checking And Adding Engine Oil on Page 117.)

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

Close the right access cover. (See RIGHT COVER on Page 108.)

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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 610mm (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 (300 lb)
Operating Weight	2647kg (5835 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
Utility Work Machine 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.

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