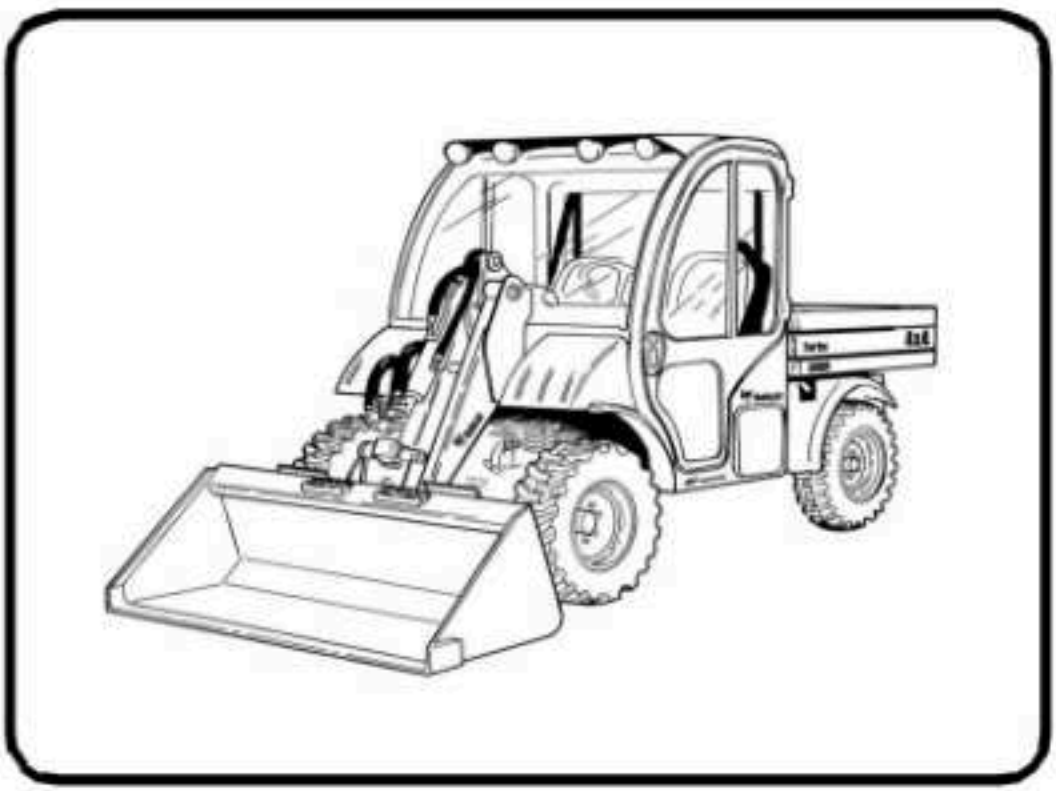
Bobcat®

Operation & Maintenance Manual
Toolcat™ 5600 Utility Work Machine

S/N A00211001 & Above
S/N A00311001 & Above



EQUIPPED WITH TOOLCAT INTERLOCK CONTROL SYSTEM (TICS)

6904207 (9-05) Revised (6-08) (1)

Printed in U.S.A.

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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.

REFERENCE INFORMATION

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

Work Machine Serial Number _____

Engine Serial Number _____

_____

_____

NOTES:

_____

_____

YOUR BOBCAT DEALER:

_____

ADDRESS:

_____

PHONE:

_____

Bobcat Company
P.O. Box 128
Gwinner, ND 58040-0128

Bobcat Company Europe
Dréve 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 Toolcat utility work machine. READ AND UNDERSTAND THIS OPERATION & MAINTENANCE MANUAL BEFORE OPERATING YOUR MACHINE. If you have any questions, see your Bobcat dealer.

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BOBCAT COMANY IS IS0 9001:2000 CERTIFIED

ISO 9001:2000 is an international standard 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 9001:2000 standard. The BSI registration certifies that Bobcat's manufacturing facilities in Gwinner and Bismarck, North Dakota (North America), Pontchateau (France), Dobris (Czech Republic) and the Bobcat corporate offices (Gwinner, Bismarck & West Fargo) in North Dakota are in compliance with ISO 9001:2000. Only certified assessors, like BSI, can grant registrations.

ISO 9001:2000 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 (6 Pack) 6675517		BATTERY 6674687
	FUEL FILTER 6667352		FLUID, Hydraulic/Hydrostatic 6903117 - (2.5 Gal.) 6903118 - (5 Gal.) 6903119 - (55 Gal.)
	AIR FILTER, Outer 6666333		COOLANT PRESSURE CAP 6733429
	AIR FILTER, Inner 6666334		PROPYLENE GLYCOL ANTI-FREEZE, 6724094 Premixed [-34 F (-37C)] 6724354 Concentrate
	HYDRAULIC/HYDROSTATIC FILTER 6668819		AXLE LUBRICANT (2.5 Gal. Container) 100032-06A

MOTOR OIL

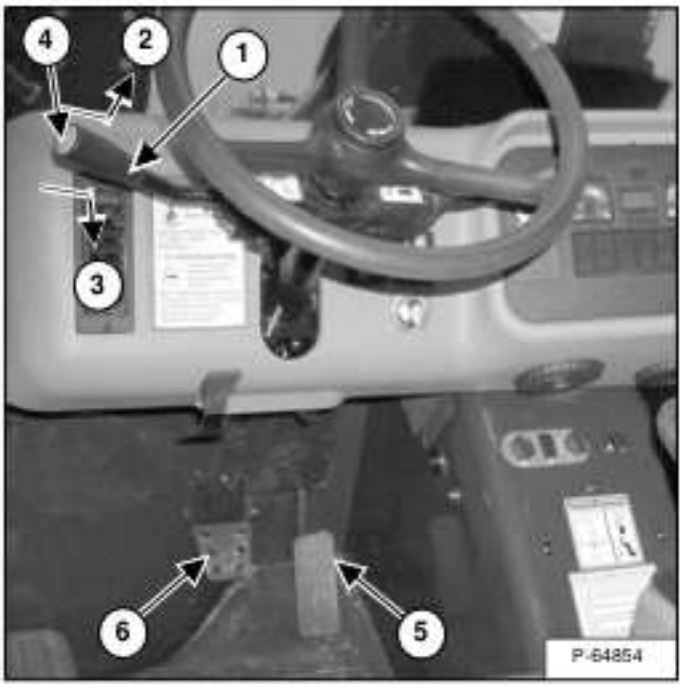
6903105	SAE 15W/40 CE/SG (12 qt.)	6903109	SAE 30W CE/SG (12 qt.)
6903106	SAE 15W/40 CE/SG (1 Gal.)	6903110	SAE 30W CE/SG (1 Gal.)
6903113	SAE 15W/40 CE/SG (2.5 Gal.)	6903111	SAE 30W CE/SG (2.5 Gal.)
6903107	SAE 10W/30 CE/SG (12 qt.)		
6903108	SAE 10W/30 CE/SG (1 Gal.)		
6903112	SAE 10W/30 CE/SG (2.5 Gal.)		

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TRAVEL DIRECTION CONTROL LEVER

Operation

Figure OI-13



The Travel Direction Control Lever (Item 1) **[Figure OI-13]** has three positions; Forward - PARK - Reverse (**FPR**).

Pull lever toward steering wheel and move the lever up (Item 2) **[Figure OI-13]** for forward travel.

Pull lever toward steering wheel and move the lever down (Item 3) **[Figure OI-13]** 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 OI-13]** at the end of lever to engage high range. (High Speed Icon, Item 34, **[Figure OI-4]**, 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 OI-13]** 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

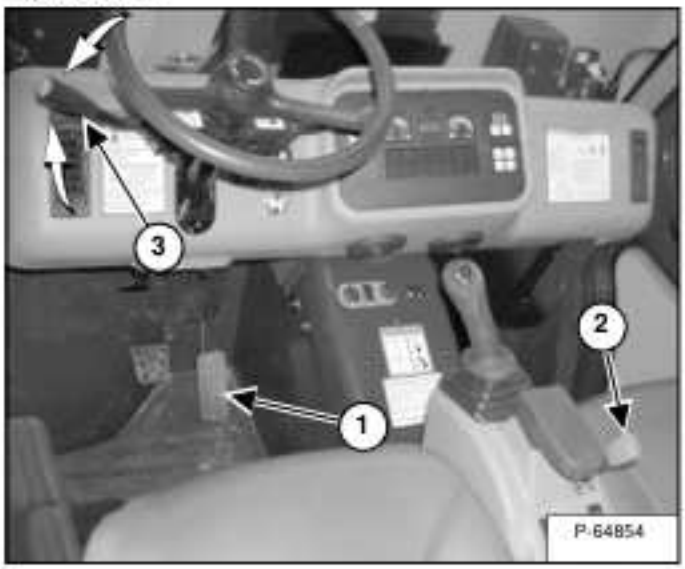
Operation

Press the Brake Pedal (Item 6) **[Figure OI-13]** 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.

STOPPING THE UTILITY WORK MACHINE

Procedure

Figure OI-14



Gradually release pressure on the Drive Pedal (Item 1) **[Figure OI-14]** until the machine comes to a complete stop.

Move Engine Speed Control (Item 2) **[Figure OI-14]** backward to decrease engine RPM.

Move the Travel Direction Control Lever (Item 3) **[Figure OI-14]** to PARK position.

Lower the lift arm and put the attachment flat on the ground. Put all controls in neutral.

Turn the key OFF and remove the key to prevent use by unauthorized personnel. (*Keyless Start:* Press the STOP button.)

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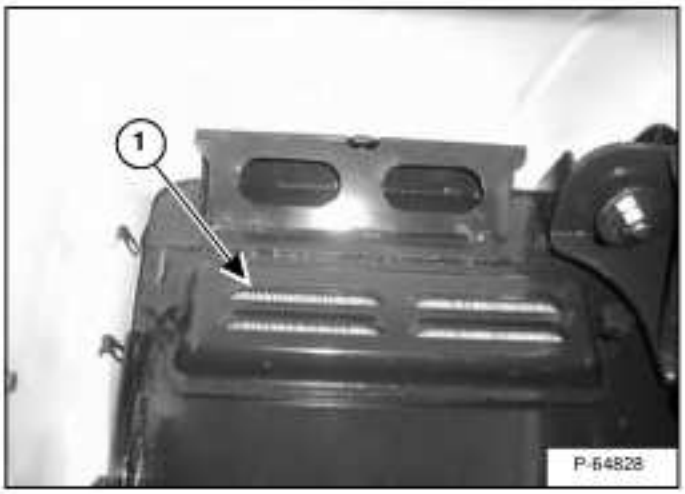
CAB AIR FILTER

Cleaning And Maintenance

The heating system requires regular inspection and maintenance. For intervals (See SERVICE SCHEDULE on Page PM-7.)

Fresh Air Filter

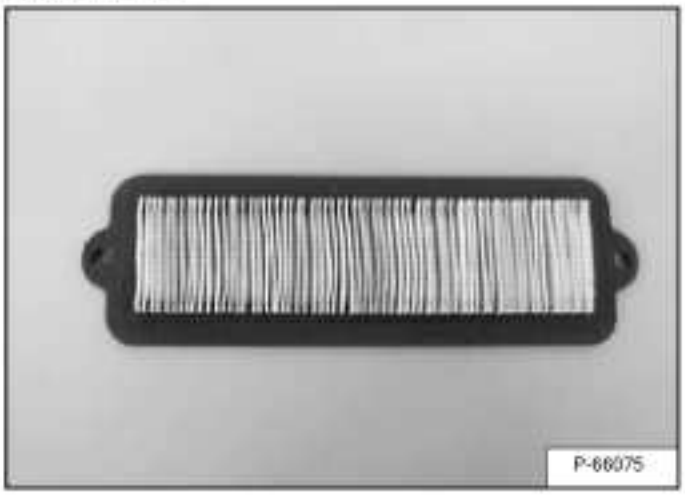
Figure PM-14



The fresh air filter is located under the right front fender **[Figure PM-14]**.

Remove the two thumb bolts and remove the filter housing (Item 1) **[Figure PM-14]**.

Figure PM-15

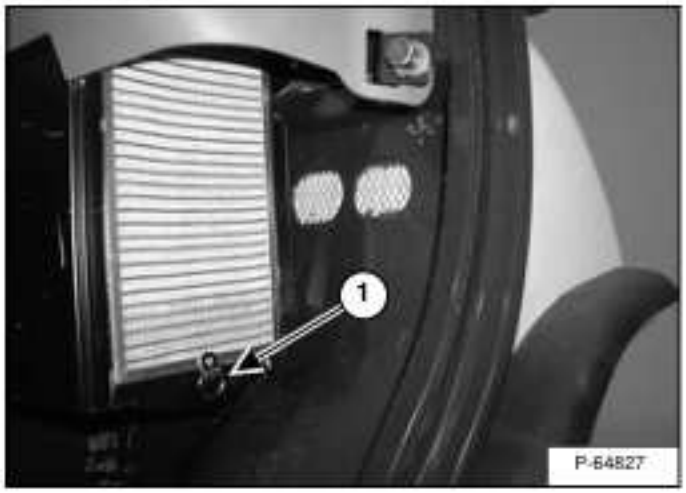


Remove the filter and shake it or use low air pressure to remove dirt **[Figure PM-15]**. The filter can be cleaned several times in this manner then it must be replaced.

Reinstall the filter and housing.

Recirculating Air Filter

Figure PM-16



The recirculating filter is located on the right end of the heater / air conditioning housing.

Use the ring (Item 1) **[Figure PM-16]** to pull the filter out.

Shake the filter or use low air pressure to remove dirt. The filter can be cleaned several times in this manner, then it must be replaced. If air flow from the fan is reduced, the filter may need replacement.

Reinstall the filter.

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TOOLCAT 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	 1500 lb. (680 kg) 2000 lb. (907 kg) 2200 lb. (997 kg)* 500 lb. (227 kg) 4200 lb. (1905 kg)** * 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)	3000 lb. (1362 kg)
Operating Weight Standard Turbo	 5290 lb. (2400 kg) 5410 lb. (2454 kg)
Travel Speed Low Range (Forward & Reverse) High Range (Forward Only)	 0 - 10 mph (0 - 16,1 km/hr.) 0 - 18 mph (0 - 28,9 km/hr.)

Controls

Vehicle Steering	Steering Wheel
Loader Hydraulics - Lift and Tilt - Front and Rear Auxiliary	 Joystick Switches 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

	Non-Turbo	Turbo
Make/Model	Kubota V2203-M-DI	Kubota V2003-M-DI-T
Fuel/Cooling	Diesel / Liquid	
Horsepower, Maximum	46 HP (34 kW)	56 HP (41,8 kW)
High Idle RPM	2830-2850 RPM	
Low Idle RPM	1000-1200 RPM	
Number of Cylinders	4	
Displacement	134.0 cu. in. (2,2 L)	122.0 cu. in. (2,0 L)
Bore/Stroke	3.425 / 3.638 in. (87,0 mm / 92,4 mm)	3.268 / 3.638 in. (83,0 mm / 92,4 mm)
Lubrication	Pressure System with Filter	
Crankcase Ventilation	Closed Breathing	Open Breathing
Air Cleaner	Dry replaceable paper cartridge with safety element	
Ignition	Diesel-Compression	
Engine Coolant	Propylene Glycol / Water Mixture	
Starting Aid	Glow Plugs	

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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 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

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