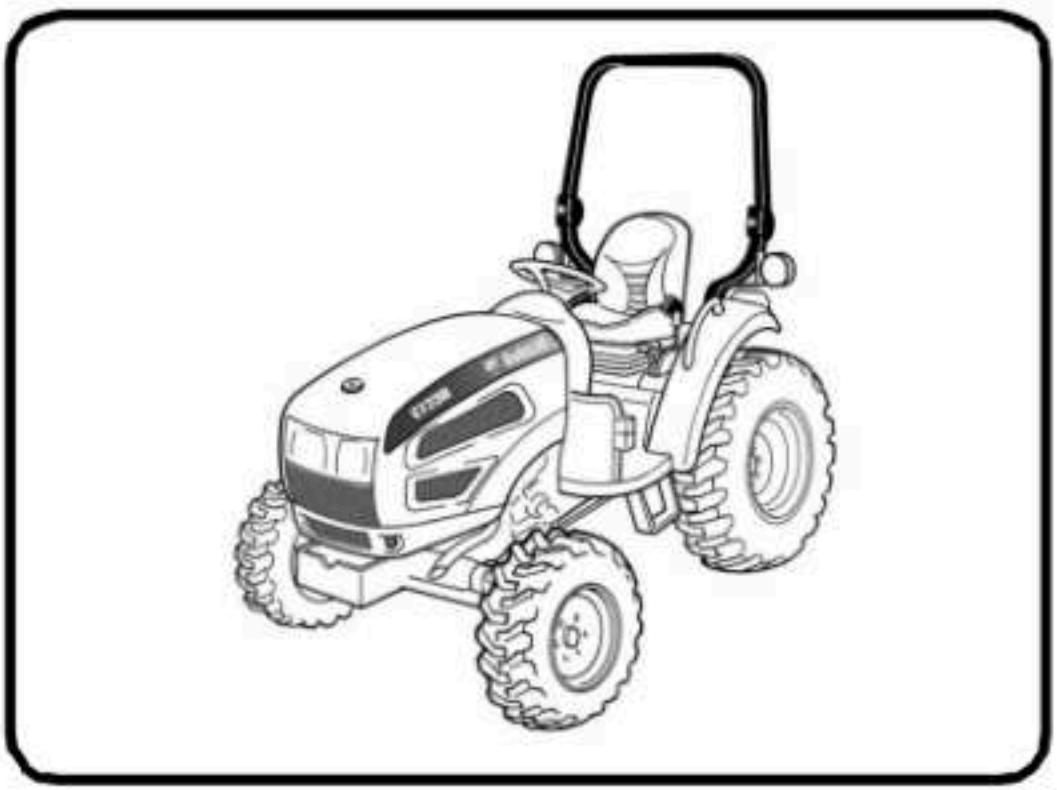
Bobcat

Operation & Maintenance Manual
CT230 Compact Tractor

S/N A59C11001 & Above



6986531 (11-08) Revised (5-09) (2)

Printed in U.S.A.

© Bobcat Company 2009

MidWestTech | Bobcat CT230 Compact Tractor Operation & Maintenance Manual | Publica... Order the manual at mid-west-tech.com >

CONTENTS

FOREWORD III

SAFETY & TRAINING RESOURCES XIII

OPERATING INSTRUCTIONS OI-1

LOADER SYSTEM LS-1

PREVENTIVE MAINTENANCE PM-1

MACHINE SIGN TRANSLATIONS MST-1

SPECIFICATIONS SPEC-1

WARRANTY WARRANTY-1

ALPHABETICAL INDEX INDEX-1

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.

Compact Tractor Serial Number _____

Engine Serial Number _____

_____

_____

NOTES:

_____

_____

YOUR BOBCAT DEALER:

_____

ADDRESS:

_____

PHONE:

_____

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

MidWestTech | Bobcat CT230 Compact Tractor Operation & Maintenance Manual | Publica... 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 Compact Tractor. READ AND UNDERSTAND THIS OPERATION & MAINTENANCE MANUAL BEFORE OPERATING YOUR MACHINE. If you have any questions, see your Bobcat dealer.

BOBCAT COMPANY IS ISO 9001:2000 CERTIFIED V

COMPACT TRACTOR IDENTIFICATION VIII

COMPACT TRACTOR IDENTIFICATION (WITH OPTIONAL LOADER AND REAR BALLAST) IX

COMPACT TRACTOR IDENTIFICATION (WITH OPTIONAL THREE-POINT IMPLEMENT AND FRONT BALLAST) X

DELIVERY REPORT VII

FEATURES, ACCESSORIES AND ATTACHMENTS XI
- Implements - Mid-Mount XI
- Implements - Three-Point Hitch XI
- Loader (Optional) XI
- Options And Field Accessories XI
- Standard Items XI

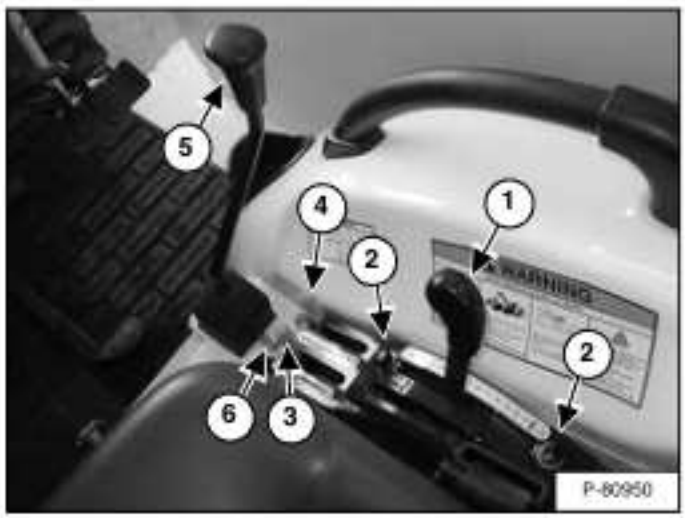
REGULAR MAINTENANCE ITEMS V

SERIAL NUMBER LOCATIONS VI
- Compact Tractor Serial Number VI
- Engine Serial Number VI
- Loader Serial Number (Optional) VI

MidWestTech | Bobcat CT230 Compact Tractor Operation & Maintenance Manual | Publica... Order the manual at mid-west-tech.com >

Right Console

Figure OI-4



REF	DESCRIPTION	FUNCTION / OPERATION
1	Three-Point Hitch Position Lever	Move lever forward to lower the Three-Point Hitch lower links, move lever back to raise the Three-Point Hitch lower links. (See THREE-POINT HITCH on Page OI-26.)
2	Three-Point Hitch Position Lever Stops	Rotate depth stop knobs counter-clockwise to loosen, set minimum / maximum desired depth position. Turn clockwise and tighten the knob to the selected position. (See THREE-POINT HITCH on Page OI-26.)
3	Rear Auxiliary Hydraulic Lever (Rear Remote)	Move lever forward to pressurize the *A* coupler. Move lever back to pressurize the *B* coupler.(See REAR AUXILIARY HYDRAULICS (IF EQUIPPED) on Page OI-23.)
4	Rear Auxiliary Hydraulic Lever (Rear Remote)	Move lever forward to pressurize the *C* coupler. Move lever back to pressurize the *D* coupler.(See REAR AUXILIARY HYDRAULICS (IF EQUIPPED) on Page OI-23.)
5	Joystick Control Lever (If Equipped)	Joystick controls the lift and tilt functions of the loader. (See LOADER CONTROLS (IF EQUIPPED) on Page OI-21.)
6	Joystick Lock Lever	Locks the joystick control lever. (See LOADER CONTROLS (IF EQUIPPED) on Page OI-21.)

Left Console

Figure OI-5



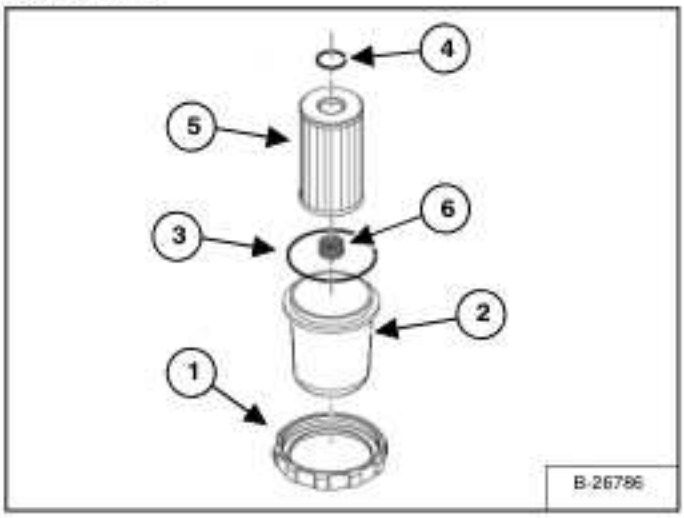
REF	DESCRIPTION	FUNCTION / OPERATION
1	Speed Range Lever (L-N-M-N-H)	Press the brake pedals and fully press the clutch pedal, then move the lever forward for Low (L) speed range, Neutral (N) position, Medium (M) speed, Neutral (N) position, and back for High (H) speed range. (See SPEED RANGE LEVER on Page OI-15.)
2	Rear-PTO Lever (540 RPM)	Press the brake pedals and fully press the clutch pedal, then move the lever forward to engage the rear-PTO. Move lever back to disengage.(See POWER TAKE-OFF (PTO) on Page OI-28.)
3	Mid-PTO Lever (If Equipped) (2000 RPM)	Press the brake pedals and fully press the clutch pedal, then move the lever forward to engage the mid-PTO. Move lever back to disengage. (See POWER TAKE-OFF (PTO) on Page OI-28.)

MidWestTech | Bobcat CT230 Compact Tractor Operation & Maintenance Manual | Publica... Order the manual at mid-west-tech.com >

Fuel Filter

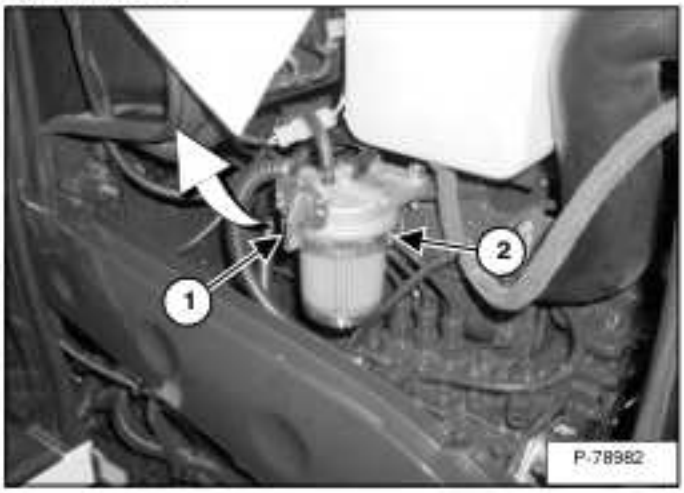
Remove water from or replace the fuel filter at the correct interval. (See SERVICE SCHEDULE on Page PM-7.)

Figure PM-37



The fuel filter assembly consists of the following: Locking Collar (Item1), Bowl (Item 2), O-Ring (Item 3), O-Ring (Item 4), Filter (Item 5), and Spring (Item 6) **[Figure PM-37]**.

Figure PM-38



Removing Water:

The fuel filter is located under the engine cover on the right side of the engine **[Figure PM-38]**.

Clean the area around the filter housing.

Move the fuel shut off lever to the OFF position (Item 1) **[Figure PM-38]**.

Place a drain pan under the fuel filter.

Remove the locking collar (Item 2) **[Figure PM-38]** at the filter element and remove the fuel bowl and filter.

Remove the filter and drain the fuel, water and any sediment into the drain pan. Dispose of the used fuel in an environmentally safe manor.

Reinstall the filter and bowl. Turn the lever to the ON position **[Figure PM-39]**.

Replacing Filter:

Clean the area around the filter housing.

Move the fuel shut off lever to the OFF position (Item 1) **[Figure PM-38]**.

Place a drain pan under the fuel filter.

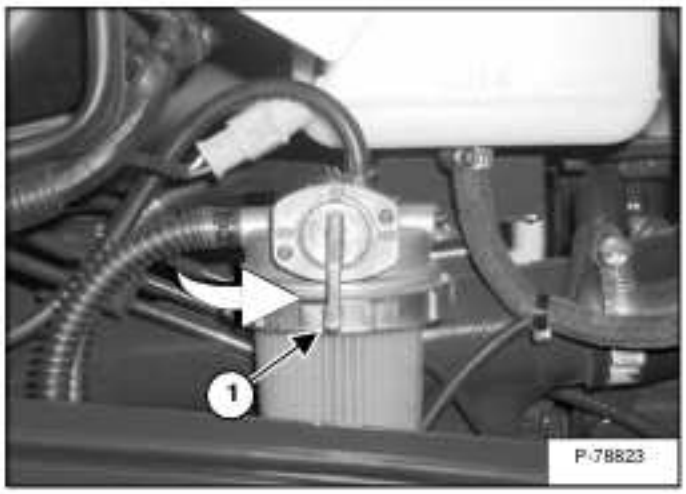
Remove the locking collar (Item 2) **[Figure PM-38]** at the filter element and remove the fuel bowl and filter.

Remove the filter and drain the fuel, water and any sediment into the drain pan. Dispose of the used fuel and filter in an environmentally safe manor.

Put clean oil on the O-Rings.

Install the new fuel filter, bowl and locking collar.

Figure PM-39



Return the shutoff lever to the ON position (Item 1) **[Figure PM-39]**.

Remove air from the fuel system. (See Removing Air From The Fuel System on Page PM-27.)

MidWestTech | Bobcat CT230 Compact Tractor Operation & Maintenance Manual | Publica... Order the manual at mid-west-tech.com >

COMPACT TRACTOR CAPACITIES

Compact Tractor Loader Lift Capacity

The compact tractor lift capacity with the loader and standard bucket, correct rear ballast, and tires with the correct load rating is listed in the chart below.

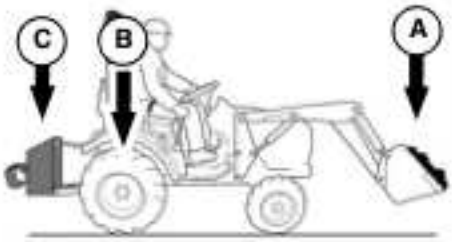
The following items will **reduce** the loader lift capacity:

- Use of larger buckets or attachments which moved the load center forward.
- The loader is equipped with the optional Bob-Tach mounting system.
- If the weight of the rear ballast is reduced.
- Tires with a lower load rating are used.

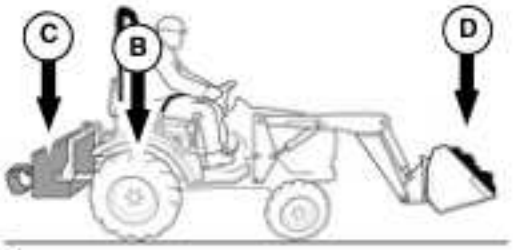
Ballast (Rear)

The correct rear ballast must be installed on the compact tractor for maximum loader lift capacity. There are two options for installing the correct rear ballast. Option 1 is to install a three-point hitch ballast box (see chart below). Option 2 is to install a three-point hitch ballast box **and** fill the rear tires with liquid ballast. Both compact tractor rear tires must be filled to 75% full with calcium chloride mixture of 5 lb. / Gal. of water (or 0,6 kg / liter of water).

Loader Lift Capacity With Pin-On Bucket - Configuration 1



Loader Lift Capacity With Optional Bob-Tach Mounting System - Configuration 2



Loader Lift Capacity With Optional Bob-Tach Mounting System and Pallet Forks - Configuration 3



A - Loader Lift Capacity at full height with Bucket (Model 7TL loader and Liquid Ballast **B** and / or Rear Ballast **C** installed) =
Measured at bucket pivot = 1605 lb. (728 kg)
Measured at 19.68 in. (500 mm) in front of pivot = 1225 lb. (556 kg)
Bucket weight - 60 in. (1524 mm) = 205 lb. (93 kg)

B - Liquid Ballast Weight =
Both rear tires filled to 75% full with calcium chloride mixture of 5 lb. / gal. of water (0.6 kg / liter of water).

C - Rear Ballast Weight =
Option 1 (without Liquid Ballast **B** installed) = 880 lb. (399 kg).
Option 2 (with Liquid Ballast **B** installed) = 646 lb. (293 kg).

D - Loader Lift Capacity at full height with Optional Bob-Tach Mounting System (Model 7TL loader and Liquid Ballast **B** and / or Rear Ballast **C** installed) =

Measured at bucket pivot = 1480 lb. (671 kg)
Measured at 19.68 in. (500 mm) in front of pivot = 1090 lb. (494 kg)
Bucket weight - 60in. (1524 mm) = 205 lb. (93 kg)

E - Loader Lift Capacity at full height with Optional Bob-Tach Mounting System and Pallet Forks (Model 7TL loader and Liquid Ballast **B** and / or Rear Ballast **C** installed) =
Measured at 24 in. (610mm) in front of pallet fork frame = 740 lb. (336 kg)
Pallet Fork Frame and 42 in. (1067 mm) forks - weight = 364 lb. (165 kg)

MidWestTech | Bobcat CT230 Compact Tractor Operation & Maintenance Manual | Publica... 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 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 the attachment / implement.

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, Safety Manual 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. Fasten seat belt securely when Roll-Over Protective Structure (ROPS) is up and locked. DO NOT wear the seat belt if ROPS is down.

Know the Work Conditions

- Know the weight of the materials being handled. Avoid exceeding the machine and attachment / implement load capacities. Material which is very dense will be heavier than the same volume of less dense material. Reduce the size of 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, hearing protection, or respiratory equipment are required for some work. See your Bobcat dealer about Bobcat Safety equipment for your machine.

SI CT-1008

MidWestTech | Bobcat CT230 Compact Tractor Operation & Maintenance Manual | Publica... Order the manual at mid-west-tech.com >