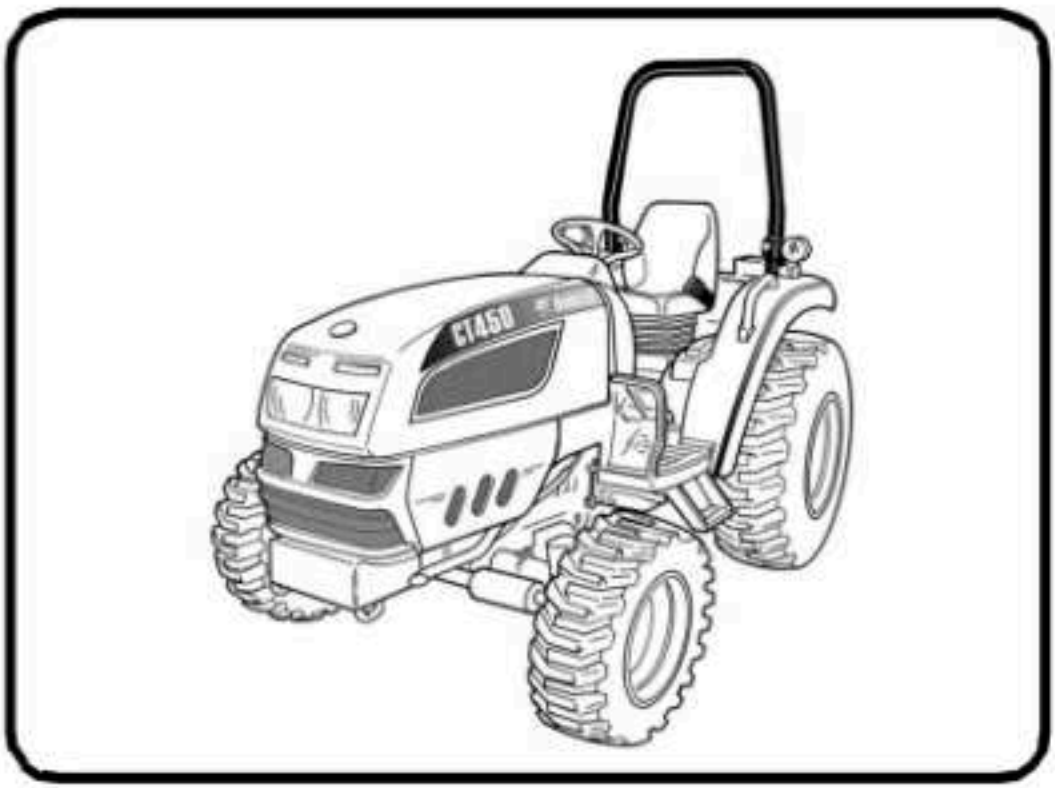
Bobcat®

Operation & Maintenance Manual
CT450 Compact Tractor
Hydrostatic Transmission (HST) & Mechanical Transmission (SST)

(HST) S/N ABHM11001 & Above
(SST) S/N AKBP11001 & Above



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REFERENCE INFORMATION

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

Compact Tractor Serial Number _____

Engine Serial Number _____

Loader Serial Number (If Equipped) _____

NOTES:

_____

_____

_____

YOUR BOBCAT DEALER:

_____

ADDRESS:

_____

PHONE:

_____

Bobcat Company
P.O. Box 128
Gwinner, ND 58040-0128
UNITED STATES OF AMERICA

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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 compact tractor. READ AND UNDERSTAND THIS OPERATION & MAINTENANCE MANUAL BEFORE OPERATING YOUR BOBCAT COMPACT TRACTOR. If you have any questions, see your Bobcat dealer. This manual may illustrate options and accessories not installed on your compact tractor.

BOBCAT COMPANY IS IS0 9001 CERTIFIED 7

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- Compact Tractor Serial Number 8
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COMPACT TRACTOR IDENTIFICATION (WITH OPTIONAL LOADER AND REAR BALLAST) 11

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COMPACT TRACTOR IDENTIFICATION (WITH OPTIONAL CAB) 13

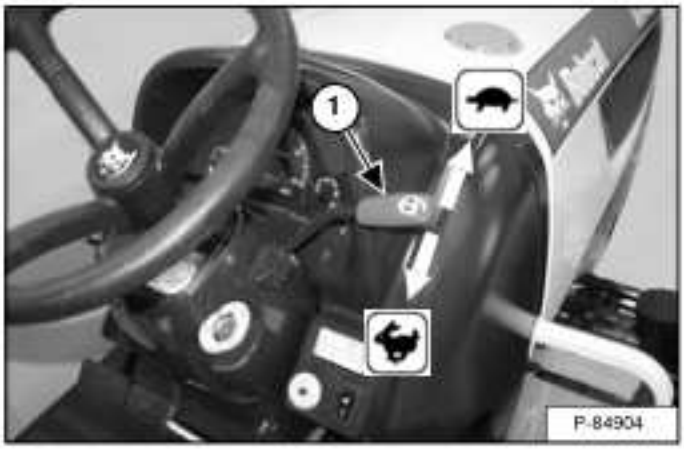
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ENGINE SPEED CONTROL LEVER

Operation (HST)

Figure 33

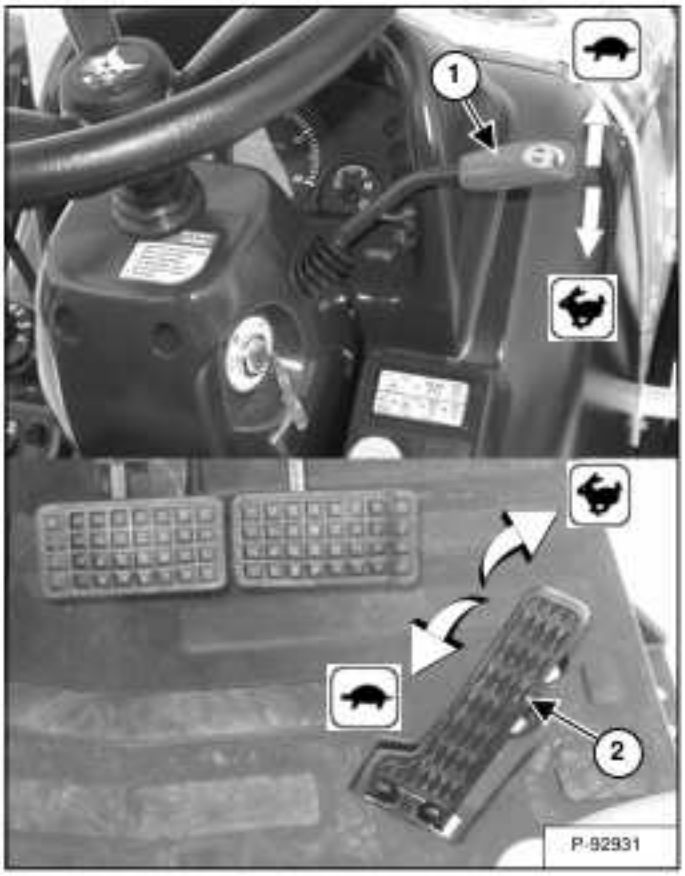


The engine speed control lever (Item 1) **[Figure 33]** is located at the right of the steering column.

Move the engine speed control lever (Item 1) **[Figure 33]** backward to increase engine speed. Move the lever forward to decrease engine speed.

Operation (SST)

Figure 34



The engine speed control lever (Item 1) **[Figure 34]** is located at the right of the steering column.

The engine speed control pedal (Item 2) **[Figure 34]** is located at the right floor plate.

The engine speed control lever is used when a constant engine speed is desired. Move the engine speed control lever (Item 1) backward to increase engine speed. Move the lever forward to decrease engine speed. (Move the engine speed control lever to low engine speed before using the engine speed control pedal.)

NOTE: If the engine speed control lever has not been moved to low engine speed, when using the engine speed control pedal, releasing the pedal will only decrease to the position set by the engine speed control lever.

Press the engine speed control pedal (Item 2) to increase engine speed, release the pedal to decrease engine speed.

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MAINTENANCE SAFETY

⚠ WARNING

Instructions are necessary before operating or servicing machine. Read and understand the Operation & Maintenance Manual, Operator's Handbook and signs (decals) on machine. Follow warnings and instructions in the manuals when making repairs, adjustments or servicing. Check for correct function after adjustments, repairs or service. Untrained operators and failure to follow instructions can cause injury or death.

W-2003-0807

⚠ Safety Alert Symbol: This symbol with a warning statement, means: "Warning, be alert! Your safety is involved!" Carefully read the message that follows.

CORRECT



P-90216

⚠ Never service the machine without instructions.

CORRECT



B-23NEW

⚠ Before exiting machine, engage parking brake. Chock wheels before servicing

CORRECT



B-23552

⚠ Cleaning and maintenance are required daily.

WRONG



B-23556

⚠ Have good ventilation when welding or grinding painted parts.
⚠ Wear dust mask when grinding painted parts. Toxic dust and gas can be produced.
⚠ Avoid exhaust fume leaks which can kill without warning. Exhaust system must be tightly sealed.

WRONG



B-23525

⚠ Disconnecting or loosening any hydraulic tubeline, hose, fitting, component or a part failure can cause loader arms to drop.
⚠ Lower loader arms, attachments, and implements (if equipped) before servicing.
⚠ DO NOT service the compact tractor or implement with the PTO system engaged.

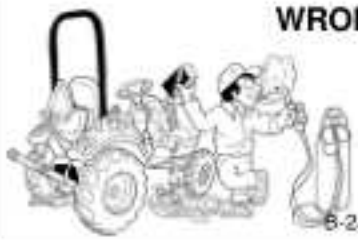
WRONG



B-23590

⚠ Never start the machine if not properly seated in the operator's seat.
⚠ Never work on the machine with loader arms raised.
⚠ Never modify equipment or add attachments not approved by Bobcat Company.

WRONG



B-23551

⚠ Stop, cool and clean engine of flammable materials before checking fluids.
⚠ Never service or adjust machine with the engine running unless instructed to do so in the manual.
⚠ Avoid contact with leaking hydraulic fluid or diesel fuel under pressure. It can penetrate the skin or eyes.
⚠ Never fill fuel tank with engine running, while smoking or when near open flame.

WRONG



B-23564

⚠ Keep body, jewelry and clothing away from moving parts, electrical contact, hot parts and exhaust.
⚠ Wear eye protection to guard from battery acid, compressed springs, fluids under pressure and flying debris when engines are running or tools are used. Use eye protection approved for type of welding.
⚠ Keep engine cover and side access panels closed except for service.

WRONG



B-6589

⚠ Lead-acid batteries produce flammable and explosive gases.
⚠ Keep arcs, sparks, flames and lighted tobacco away from batteries.
⚠ Batteries contain acid which burns eyes or skin on contact. Wear protective clothing. If acid contacts body, flush well with water. For eye contact, flush well and get immediate medical attention.

Maintenance procedures which are given in the Operation & Maintenance Manual can be performed by the owner/operator without any specific technical training. Maintenance procedures which are **not** in the Operation & Maintenance Manual must be performed **ONLY BY QUALIFIED BOBCAT SERVICE PERSONNEL. Always use genuine Bobcat replacement parts.**

MSW32-0409

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Three-Point Hitch Specifications

Examples of the lift capacity of the three-point hitch with front ballast are listed in the chart below.

The following items will **reduce** the Three-Point Hitch lift capacity:

- Implements are used which move the load center rearward.
- If the weight of the front ballast is reduced.

Towing Weight

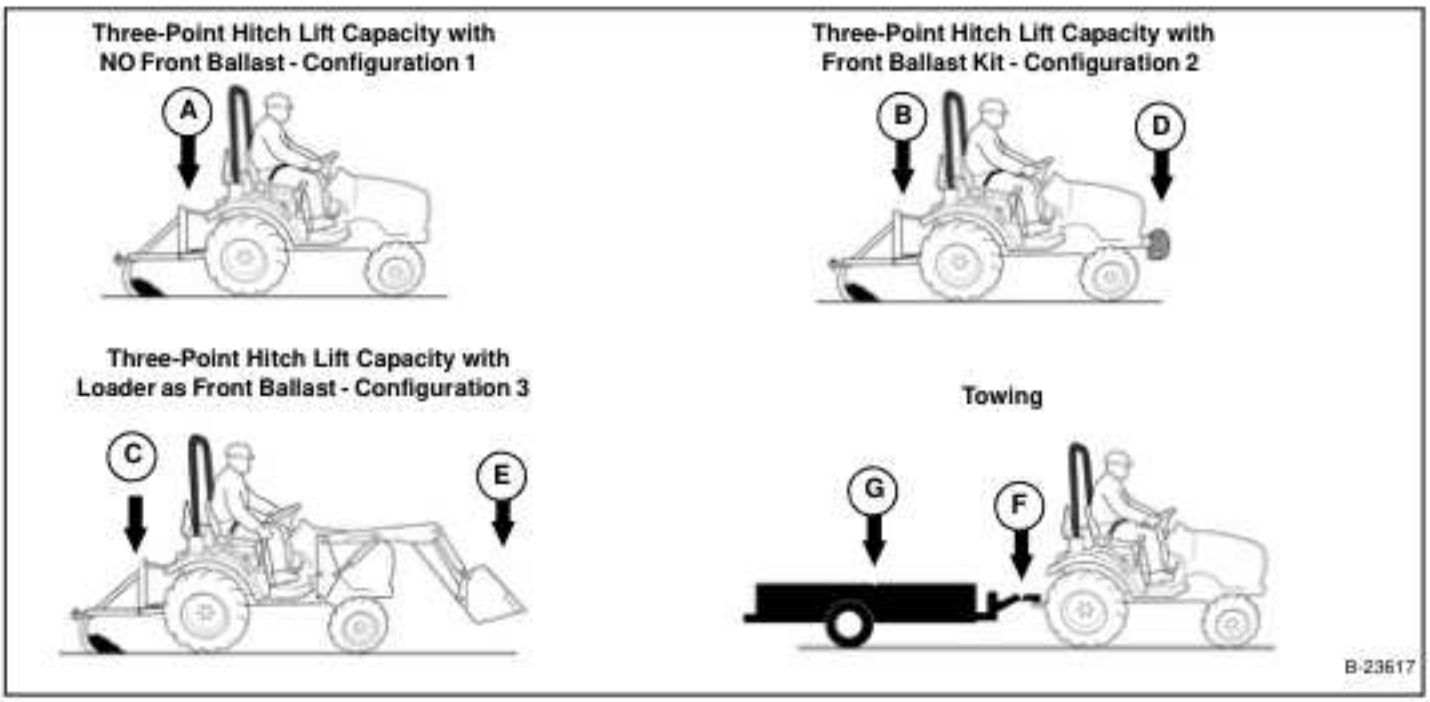
The maximum tow weight including the weight of the trailer is listed in chart below.

Maximum Drawbar Tongue Weight

The maximum vertical load that can be applied to the drawbar hitch is listed in chart below.

Ballast (Front)

The front mounted loader with attachment can be used as a front ballast. A front ballast kit can be installed on the front of the compact tractor (see chart below).



A	Three-Point Hitch Lift Capacity (with NO front ballast)	Measured at 24 in. (610 mm) behind the lift points	1012 lb. (459 kg)
B	Three-Point Hitch Lift Capacity (with Front Ballast Kit **D** installed)	Measured at 24 in. (610 mm) behind the lift points	1430 lb. (648 kg)
C	Three-Point Hitch Lift Capacity (With Front Ballast Weight **E** installed - 9TL loader and bucket)	Measured at 24 in. (610 mm) behind the lift points	1870 lb. (848 kg)
D	Front Ballast Kit Weight		300 lb. (136 kg)
E	Front Ballast Weight	9TL loader and bucket installed	
F	Maximum Drawbar Tongue Weight		1433 lb. (650 kg)
G	Tow Weight (Including weight of trailer)		7716 lb. (3500 kg)

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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 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.

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