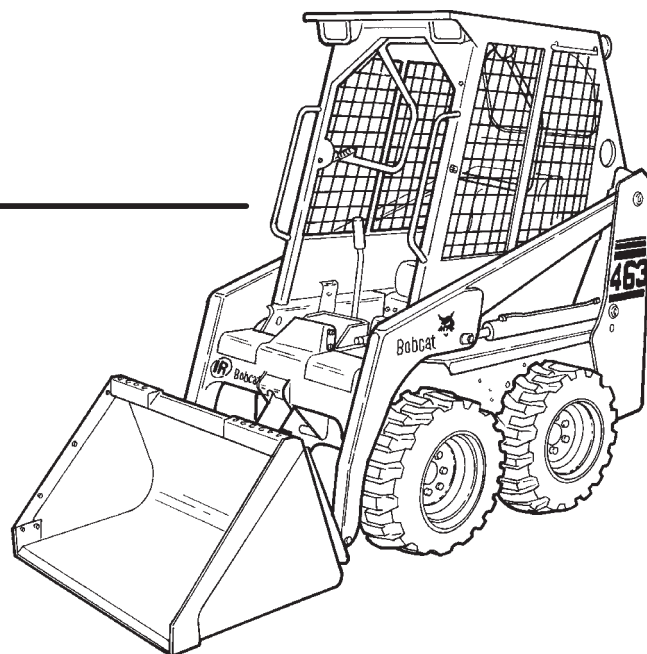




Bobcat®

Operation & Maintenance Manual

**S/N 520011001 & Above
S/N 519911001 & Above**



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**EQUIPPED WITH
BOBCAT INTERLOCK
CONTROL SYSTEM (BICS™)**

6901175 (6-02) Revised (5-12) (5)

IR Bobcat®
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FEATURES AND ACCESSORIES

Model 463 Bobcat loaders are equipped with the following standard items:

- Auxiliary Hydraulics, Front (Later Models)
- Bob-Tach
- Bobcat Interlock Control System (BICS™)
- Cushion Seat
- Gauges / Warning Lights
- Lift Arm Support Device
- Operating Lights (Later Models)
- Operator Cab (with ROPS & FOPS Approval)
- Parking Brake
- Rear Window (Later Models)
- Seat Belt
- Seat Bar
- Spark Arrestor Muffler

Below is a list of some equipment available from your Bobcat Loader dealer as Dealer and / or Factory Installed Accessories. See your Bobcat dealer for other available options, accessories and attachments.

Tires

4 PR Flotation Tires (Machine Width – 44 inches)	Opt. & FA
6 PR Bobcat Heavy Duty (Machine Width – 44 inches)	Opt. & FA
Turf Tires	Opt. & FA

Operator Cab

Back-up Alarm	Opt. & FA
Fire Extinguisher	FA
Horn	FA
Keyless Start System	FA
Operating Lights (Front & Rear) (Early Models)	Opt. & FA
Rear Window (Early Models)	FA
Seat Belt 3"	FA
Side Windows	FA
Sound Cab (Reduces noise at Operator's Ear)	Opt.
Special Applications Kit	FA
Strobe or Rotating Beacon Light	FA
Suspension Seat	FA
Top Window	FA
Vinyl Cab Enclosure	FA

Hydraulics

Front Auxiliary Hydraulics	Opt. & FA
Hydraulic Bucket Positioning	Opt. & FA

Other

Catalytic Exhaust Purifier	FA
Engine Heater	FA
Fuel Shut Off	FA
Locking Fuel Cap & Cover	FA
Low Coolant Sensor	FA
Rental Kit	FA
Single Point Lift	FA

Opt. = Factory Installed Option
FA = Field Accessory

***Specifications subject to
change without notice***

OPERATING INSTRUCTIONS

ATTACHMENTS & BUCKETS	18.
Installing The Bucket Or Attachment	19
Removing The Bucket Or Attachment	20
BOBCAT INTERLOCK CONTROL SYSTEM (BICS™)	4
Lift Arm By-Pass Control	4 . .
Traction Lock Override	5 . .
DAILY INSPECTION	12 . .
ENGINE SPEED CONTROL	5 . .
GETTING READY FOR OPERATION	13
HYDRAULIC CONTROLS	9 . .
Auxiliary Hydraulics	10 . .
Quick Couplers	10 . .
Auxiliary Hydraulics Continuous Operation	11
Bucket Position Valve Operation	9 . .
Foot Pedals	9 . .
Lift Arm Float Position	9 . .
Lift Arm Operation	9 . .
Tilt Operation	9 . .
Relieving Hydraulic Pressure	11 . .
INSTRUMENT PANEL	3 . .
LIFTING THE LOADER	26 . .
OPERATING PROCEDURE	21 . .
Backfilling	24 . .
Digging Into The Ground	23 . .
Emptying The Bucket	22 . .
Filling The Bucket	22 . .
Leveling The Ground (Using Lift Arms In Float Position)	24
PARKING BRAKE (Early Models)	6 . .
PARKING BRAKE (Later Models)	6 . .
PARKING THE BOBCAT LOADER	24
SEAT BAR RESTRAINT SYSTEM	8 . .
STARTING THE ENGINE	15 . .
Cold Temperature Starting	17 . .
Normal Starting	15 . .
Warming The Hydraulic/Hydrostatic System	17

Continued On Next Page

HYDRAULIC CONTROLS (Cont'd)

Auxiliary Hydraulics (If Equipped) (Cont'd)

! WARNING

AVOID BURNS

Hydraulic fluid, tubes, fittings and quick couplers can get hot when running machine and attachments. Be careful when connecting and disconnecting quick couplers.

W-2220-0396

The auxiliary control has a lockbolt (Item 1) [A] that must be removed to use the auxiliary hydraulics.

Raise the operator cab. (See *Raising The Operator Cab* Page 32.)

Remove the nut and bolt from the right hand steering lever [A].

The right steering lever is also the control lever for the front auxiliary hydraulics [B].

Move the right steering lever to the left or to the right to activate the auxiliary hydraulics to operate an attachment. (Example: To open or close grapple teeth) [C].

Move the lever in the opposite direction to reverse the action of the attachment.

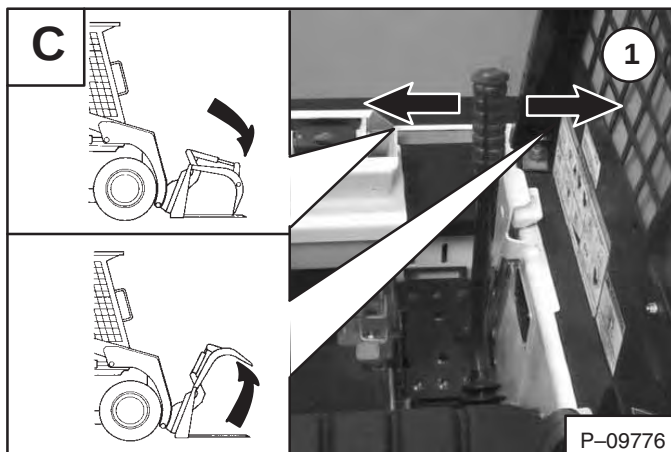
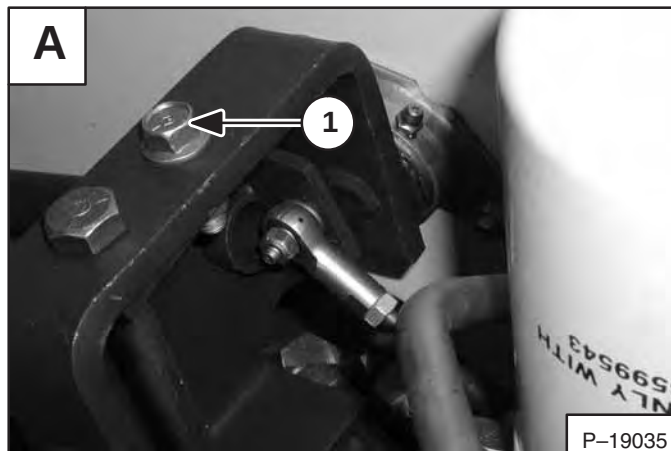
Auxiliary Hydraulic Continuous Operation

Move the steering lever all the way to the right (Item 1)[C] to put the control valve into the *continuous operation* position for a constant flow of hydraulic fluid under pressure to the quick couplers (Example: Backhoe operation).

Move the auxiliary control lever out of the continuous operation position before leaving the operator cab.

Relieving Hydraulic Pressure

With the engine stopped and attachment flat on the ground, move the right steering lever to the left and to the right several times [C].



OPERATING PROCEDURE

When operating on a public road or highway always follow local regulations. For example: Slow Moving Vehicle Sign or directional signals may be required.

Always warm up the engine and hydrostatic system before operating the loader.

IMPORTANT

Machines warmed up with moderate engine speed and light load have longer life.

I-2015-0284

Operate the loader with the engine at full speed for maximum horsepower. Move the steering levers only a small amount to operate the loader.

New operators must operate the loader in an open area without bystanders. Operate the controls until the loader can be handled at an efficient and safe rate for all conditions of the work area.

With a full bucket, go up or down the slope with the heavy end toward the top of the slope [A] & [B].

With empty bucket, go down or up the slope with the heavy end toward the top of the slope [C] & [D].

! WARNING

AVOID INJURY OR DEATH

- Keep the lift arms as low as possible.
- Do not travel or turn with the lift arms up.
- Turn on level ground.
- Go up and down slopes, not across them.
- Keep the heavy end of the machine uphill.
- Do not overload the machine.

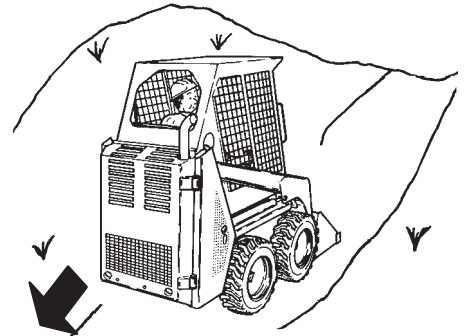
Failure to obey warnings can cause the machine to tip or roll over and cause injury or death.

W-2018-1187

Raise the bucket only high enough to avoid obstructions on rough ground.

A

WITH BUCKET FULL

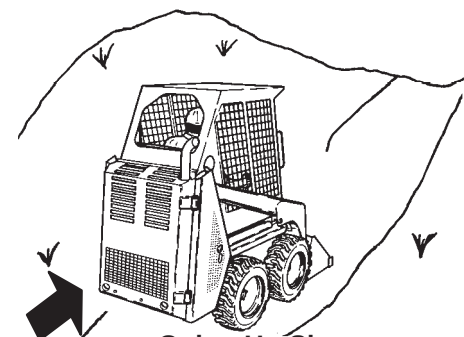


Going Down Slope

B-14306

B

WITH BUCKET FULL

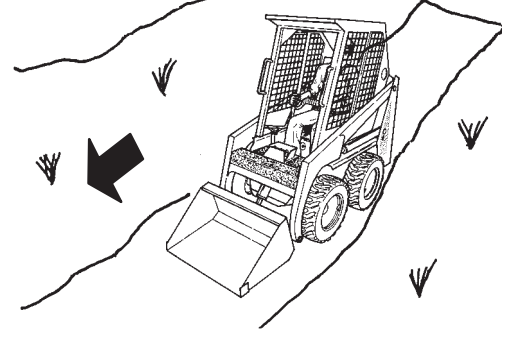


Going Up Slope

B-09043

C

WITH BUCKET EMPTY

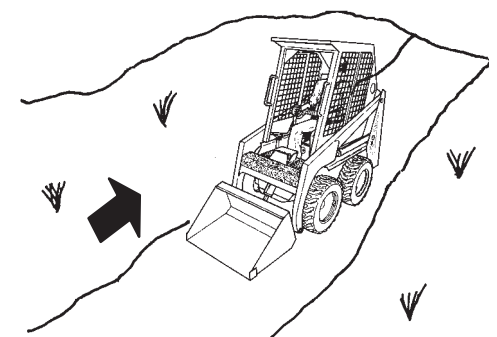


Going Down Slope

B-09042

D

WITH BUCKET EMPTY



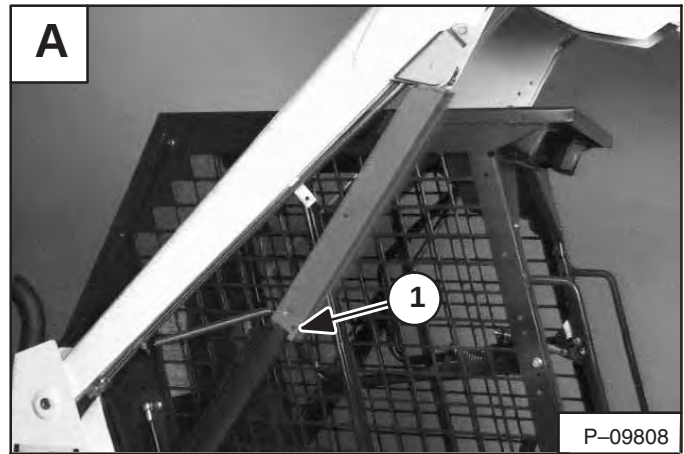
Going Up Slope

B-09042

LIFT ARM SUPPORT DEVICE (Cont'd)

Disengaging The Lift Arm Support Device

Remove the retaining pin (Item 1) [A] from the lift arm support device.



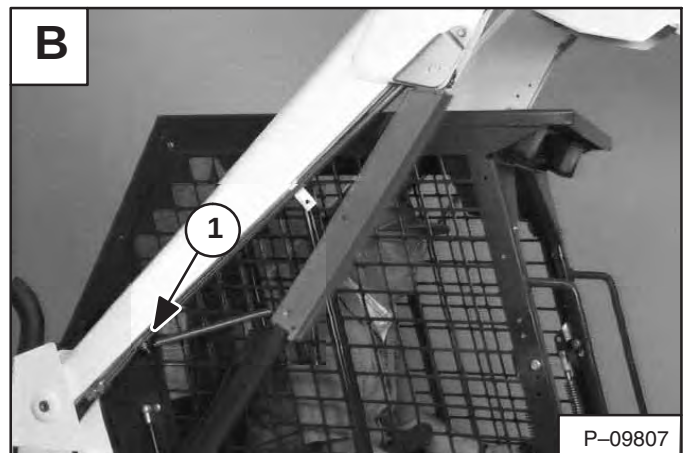
Connect the spring from the lift arm support device to the tubeline bracket (Item 1) [B] on the lift arms.

With the operator in the seat, seat belt fastened and seat bar lowered, start the engine, press the green *PRESS TO OPERATE* Button.

Raise the lift arms a small amount and the spring will lift the support device off the lift cylinder rod. Lower the lift arms. Stop the engine.

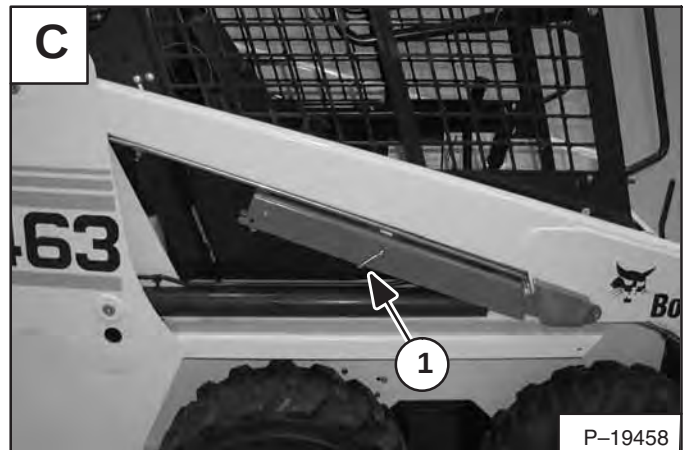
Raise the seat bar and move pedals until both pedals lock.

Disconnect the spring from the bracket.



Raise the support device into storage position and insert pin through lift arm support device and bracket (Item 1) [C].

Connect spring to pin [C].



FUEL SYSTEM (Cont'd)

Removing Air From The Fuel System

After replacing the fuel filter element or when the fuel tank has run out of fuel, the air must be removed from the fuel system before starting the engine.

Be sure the engine is cool.

Open the rear door.

Open the vent plug (Item 1) [A].

Operate the hand pump priming bulb (Item 2)[A] until fuel flows from the vent plug with no air bubbles.

Close the vent plug (Item 1) [A].

With the operator in the seat, seat belt fastened, seat bar lowered and parking brake engaged, start the engine.

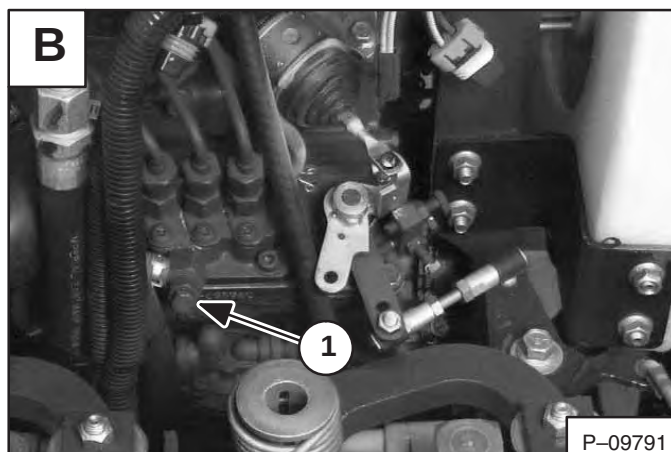
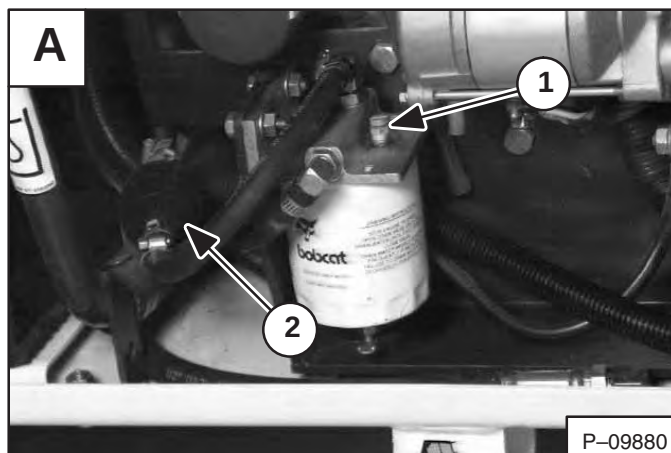
NOTE: If the engine fails to start, remove air from the fuel injection pump as follows.

Put jackstands under the rear of the frame and raise the operator cab. (See *Raising The Operator Cab* Page 32.)

Open the valve (Item 1) [B] on the injector pump and squeeze the hand pump (Item 2)[A] several times until fuel comes from the valve.

Close the valve (Item 1) [B].

Lower the operator cab. (See *Lowering The Operator Cab* Page 33.)



WARNING

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 which can result in injury or death.

W-2103-1285

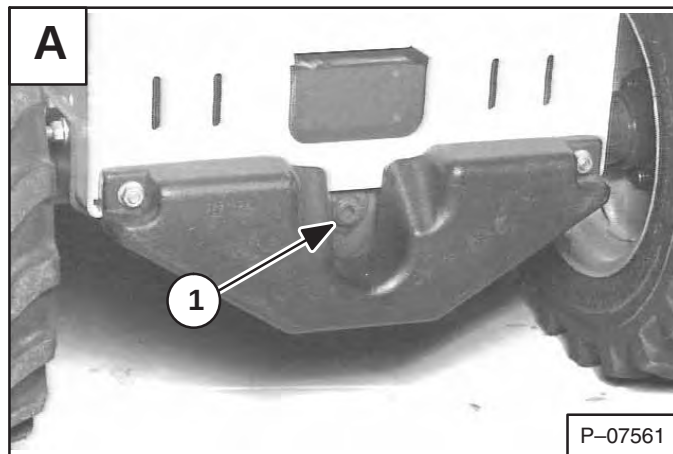
FINAL DRIVE TRANSMISSION (CHAINCASE)

The chaincase contains the final drive sprockets and the chains and is filled with the same type of fluid as is used in the hydraulic system. (See *SPECIFICATIONS* Page 71.)

Checking And Adding Oil

Put the loader on a level surface. Remove the plug at the front of the chaincase (Item 1) [A]. If the fluid can be reached with the tip of your finger through the hole, the level is correct.

Add fluid through the check plug hole until the fluid flows from the hole. Install and tighten the plug.

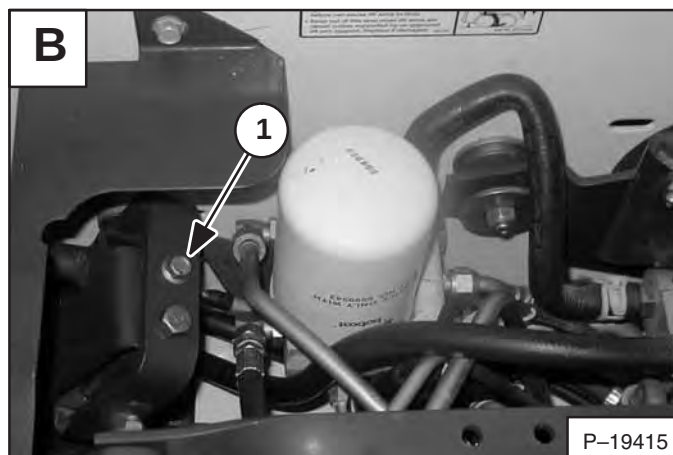


AUXILIARY CONTROL LOCKBOLT

The Auxiliary control has a lockbolt (Item 1) [B] that must be removed to use the optional auxiliary hydraulics.

Raise the operator cab. (See *Raising The Operator Cab* Page 32.)

Remove the nut and bolt (Item 1) [B] from the right hand steering lever.



MACHINE SIGN TRANSLATIONS

IMPORTANT (6560573)	63..
WARNING (6579511)	64..
SERVICE SCHEUDLE (6708212)	65.
WARNING (6579510)	67..
WARNING (6579528)	68..
DANGER (6702302)	68..
WARNING (6577754)	68..
DANGER (6702301)	68..
DANGER (6717343)	69..

**MACHINE SIGN
TRANSLATIONS**

MACHINE SIGNS (DECALS)

Machine signs (decals) are an esential part of the loader. (See Page xiv & xv.) This section provides French and Spanish translations of the machine signs that are in English.

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