



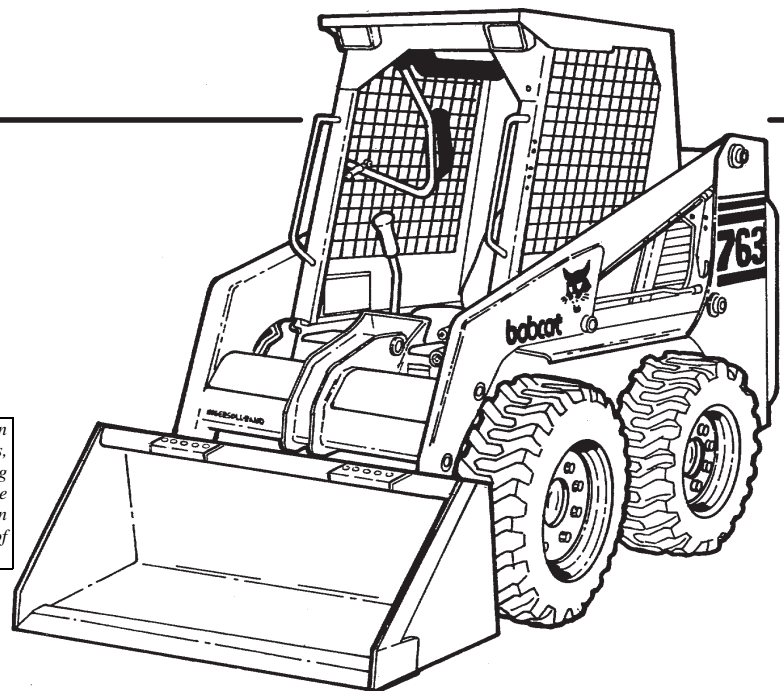
**Bobcat®**

# Operation & Maintenance Manual

S/N 512212001 thru 512235899  
S/N 512440000 thru 512441999  
S/N 512612000 thru 512613599

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

*Doosan purchased Bobcat Company from Ingersoll-Rand Company in 2007. Any reference to Ingersoll-Rand Company or use of trademarks, service marks, logos, or other proprietary identifying marks belonging to Ingersoll-Rand Company in this manual is historical or nominative in nature, and is not meant to suggest a current affiliation between Ingersoll-Rand Company and Bobcat Company or the products of either.*



**IR Bobcat®**  
Printed in U.S.A.

CLICK HERE TO **DOWNLOAD** THE COMPLETE MANUAL

- Thank you very much for reading the preview of the manual.
- You can download the complete manual from: [www.heydownloads.com](http://www.heydownloads.com) by clicking the link below



- Please note: If there is no response to CLICKING the link, please download this PDF first and then click on it.

CLICK HERE TO **DOWNLOAD** THE COMPLETE MANUAL

# OPTIONS AND ACCESSORIES

Model 763 Bobcat loaders are equipped with the following standard items:

Bob-Tach  
 Spark Arrestor Muffler  
 Lift Arm Support Device  
 Operator Cab (with ROPS & FOPS Approval)  
 Bobcat Interlock Control System (BICS™)  
 Seat Belt  
 Seat Bar  
 Parking Brake  
 Gauges/Warning Lights  
 Glow Plug Preheat System  
 Tires, 10–16.5, 8PR Bobcat Heavy Duty

Below is a list of some equipment available as a Factory Installed Option or as a Field Installed Accessory from your Bobcat Loader dealer. See your Bobcat dealer for other available accessories and attachments.

## Tires

10–16.5, 8PR Bobcat Heavy Duty (Machine Width – 60 inches) . . . . .	Opt. & FA
31 x 15.5–15, 8PR Ultra Grip Tread . . . . .	Opt. & FA
7.50 x 15 Air Boss Segmented Tires . . . . .	FA
10 x 16.5 Air Boss Segmented Tires . . . . .	FA
6.50–16 Solid Tires . . . . .	Opt. & FA
10 x 31 Solid Tires . . . . .	FA

## Operator Cab

Sound Cab (Reduces Noise at Operator's Ear) . . . . .	Opt.
Deluxe Cab . . . . .	Opt. & FA
Operating Lights (Front & Rear) . . . . .	Opt. & FA
Horn . . . . .	FA
Back-up Alarm . . . . .	Opt. & FA
Top Window . . . . .	FA
Rear Window . . . . .	FA
Cab Enclosure and Heater . . . . .	Opt. & FA
Vinyl Cab Enclosure . . . . .	FA
Hand Control Conversion . . . . .	Opt. & FA
Cover Kit (Pedals Area) . . . . .	FA
Cover Kit (Hydraulic Reservoir Area) . . . . .	FA
Fire Extinguisher . . . . .	FA
Flasher Lights . . . . .	FA
Strobe or Rotating Beacon Light . . . . .	FA
3" Seat Belt . . . . .	FA
Special Applications Kit* . . . . .	FA
Suspension Seat . . . . .	Opt. & FA
Rear Window Wiper . . . . .	FA
Large Operator Seat Bar Kit . . . . .	FA

## Instrumentation

Bobcat Operation Sensing System (BOSS®) . . . . .	Opt.
Keyless Start System . . . . .	FA

## Hydraulics

Front Auxiliary Hydraulics . . . . .	Opt. & FA
Rear Auxiliary Hydraulics . . . . .	Opt. & FA
Hydraulic Bucket Positioning (Includes On/Off Selection) . . . . .	Opt. & FA
High Flow Hydraulics . . . . .	Opt.

## Other

Catalytic Exhaust Purifier . . . . .	Opt. & FA
Engine Block Heater . . . . .	FA
Single Point Lift or Four Point Lift . . . . .	FA
Locking Fuel Cap . . . . .	FA
Radiator Screen Kit . . . . .	FA
Rear Door Bumpers . . . . .	FA
Tailgate Lock . . . . .	FA
Tool Box . . . . .	FA
Counterweight Kit . . . . .	Opt. & FA

Opt. = Factory Installed Option  
 FA = Field Accessory  
 N/A = Not Available

\* Includes 1/2 inch Lexan Front Door; 1/4 inch Lexan Top & Rear Windows

**Specifications subject to  
 change without notice**

## OPERATING INSTRUCTIONS

ATTACHMENTS & BUCKETS	27
Installing The Bucket Or Attachment	28
Removing The Bucket Or Attachment	29
BOBCAT INTERLOCK CONTROL SYSTEM (BICS™)	8
Auxiliary Hydraulic System	9
Lift Arm By-Pass Control	9
Seat Sensor Override (If Equipped)	9
Traction Lock Override	9
DAILY INSPECTION	21
ENGINE SPEED CONTROL	10
GETTING READY FOR OPERATION	21
HYDRAULIC CONTROLS	15
Advanced Hand Controls (If Equipped)	16
Attachment Functions Control (If Equipped)	20
Auxiliary Hydraulics (If Equipped)	17
Auxiliary Hydraulics Switch	18
Continuous Operation	18
Disengage	18
Momentary Operation	18
Bucket Position Valve Operation (If Equipped)	15, 16
Foot Pedals	15
Lift Arm Float Position	15
Lift Arm Operation	15
Tilt Operation	15
Front Auxiliary Hydraulics Continuous Operation	18
Front Auxiliary Hydraulics Operation	18
Hand Controls	16
Lift Arm Float Position	16
Lift Arm Operation	16
Tilt Operation	16
High Flow Hydraulics Operation (If Equipped)	19
Continuous Operation, Momentary Operation, Disengage	19
Rear Auxiliary Hydraulics Operation	18
Relieving Hydraulic Pressure	20
Front Quick Couplers	20
Rear Quick Couplers	20
Secondary Front Auxiliary Hydraulics	19
Quick Couplers (Flush Face)	17
INSTRUMENT PANEL	3
BOSS® Option Display Panel	7
Side Console	5, 6
With BOSS® Option (Early Models)	4
With BOSS® Option (Later Models)	6
Without BOSS® Option (Early Models)	3
Without BOSS® Option (Later Models)	5
Side Console – Without BOSS® Option	5
LIFTING THE LOADER	38
Four Point Lift	38
Single Point Lift	38
OPERATING PROCEDURE	30

## OPERATING INSTRUCTIONS

Continued On Next Page

## STEERING LEVERS

# ! WARNING

### AVOID INJURY OR DEATH

When operating the machine:

- Keep the seat belt fastened snugly.
- The seat bar must be lowered.
- Keep your feet on the pedal controls or footrests.

W-2261-0397

The steering levers (Item 1) [A] are on the left and right side in front of the seat.

For safe control of the loader always move the levers slowly and smoothly. Only a small movement is necessary to move the loader.

The steering levers control forward and reverse travel and turning of the loader [B].

**Forward Travel** – Push both levers forward.

**Reverse Travel** – Pull both levers backward.

**Normal Turning** – Move one lever farther forward than the other.

**Fast Turning** – Push one lever forward and pull the other lever backward.

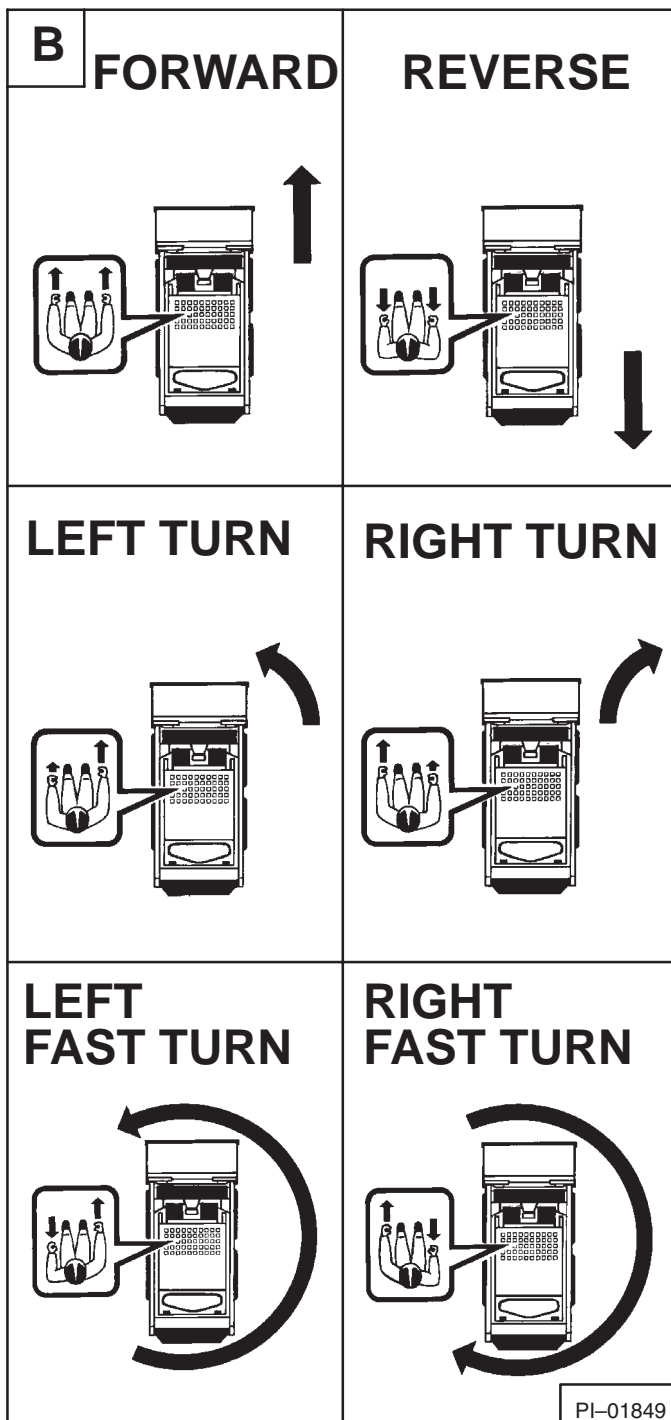
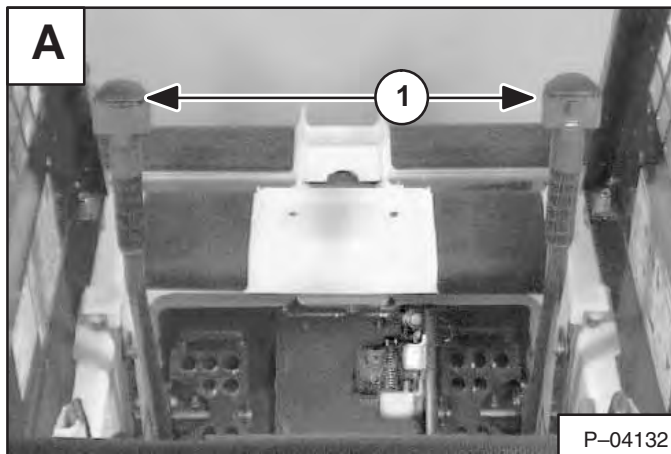
For slow travel speed, push the steering levers forward only a small amount.

To increase travel speed, push both levers farther forward.

For maximum pushing force, push the levers forward only a small amount with the engine at full RPM.

### STOPPING THE BOBCAT LOADER

Move the steering levers to the NEUTRAL POSITION. The hydrostatic transmission will act as a *service brake* to stop the loader.





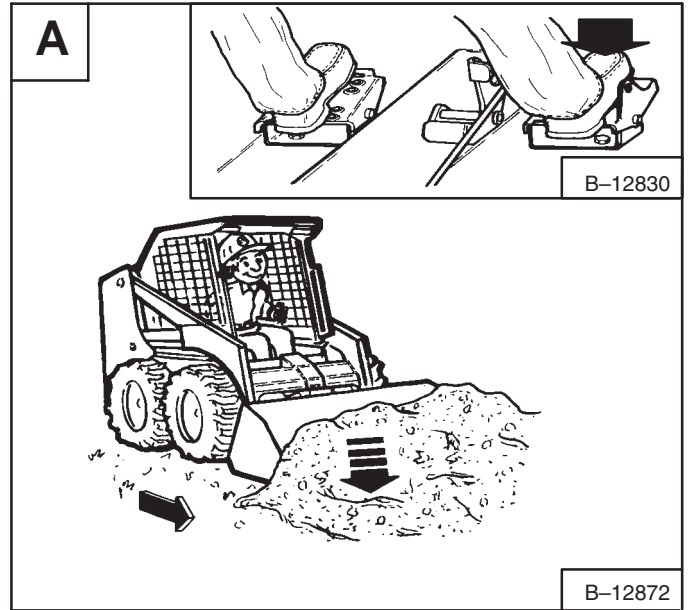
## OPERATING PROCEDURES (FOOT PEDALS)

### Filling the Bucket

Push down on the top of the lift pedal until the lift arms are all the way down.

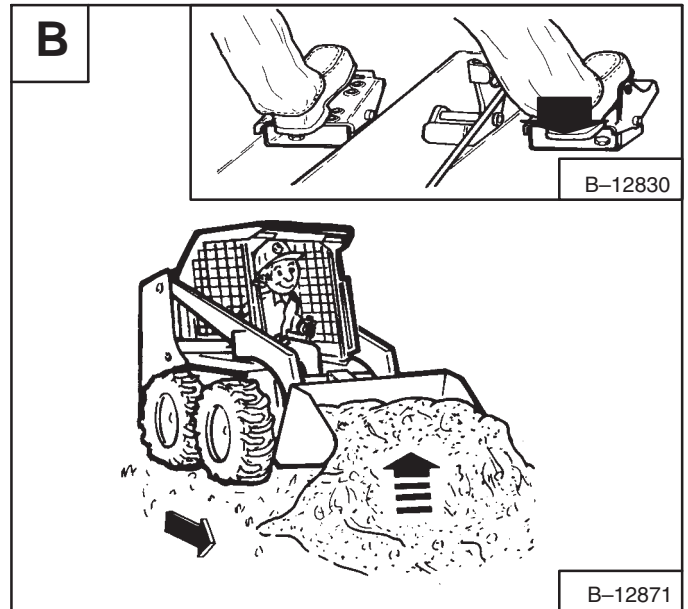
Push the top of the tilt pedal to put the cutting edge of the bucket on the ground [A].

Drive slowly forward into the material.



Push the bottom of the tilt pedal to raise the front of the bucket [B].

Drive backward away from the material.



## **!** WARNING

**Load, unload and turn on flat level ground. Do not exceed rated operating capacity shown on sign (decal) in cab. Failure to obey warnings can cause the machine to tip or roll over and cause injury or death.**

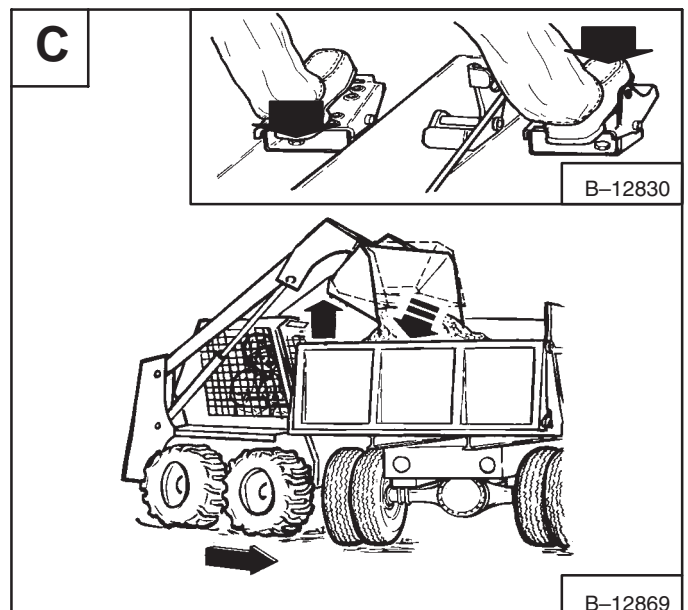
W-2056-1187

### Emptying the Bucket

Push down on the bottom of the left pedal to raise the lift arms. Push the top of the tilt pedal while raising the lift arms to level the bucket or attachment and help prevent material from falling off the back of the bucket or attachment.

Drive forward slowly until the bucket is over the top of the truck box or bin.

Push the top of the tilt pedal until the bucket is empty [C]. If all the material is near the side of the truck or bin, push it to the other side with the bucket.



## **!** WARNING

**Never dump over an obstruction, such as a post, that can enter the operator cab. The machine could tip forward and cause injury or death.**

W-2057-0694

CLICK HERE TO **DOWNLOAD** THE COMPLETE MANUAL

- Thank you very much for reading the preview of the manual.
- You can download the complete manual from: [www.heydownloads.com](http://www.heydownloads.com) by clicking the link below



- Please note: If there is no response to CLICKING the link, please download this PDF first and then click on it.

CLICK HERE TO **DOWNLOAD** THE COMPLETE MANUAL

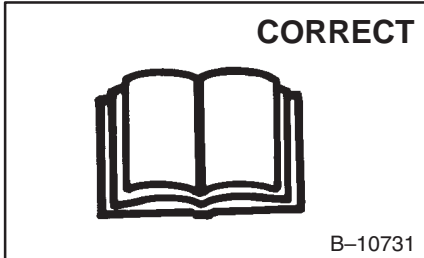
# MAINTENANCE SAFETY

## ! WARNING

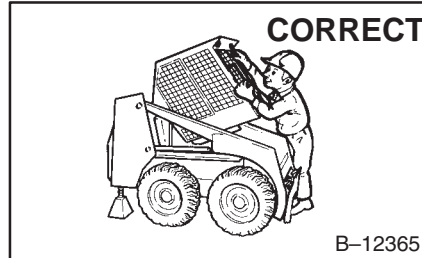
Instructions are necessary before operating or servicing machine. Read and understand the Operation & Maintenance Manual, Handbook and signs (decals) on machine. Follow warnings and instructions in the manuals when making repairs, adjustments, repairs or servicing. Check for correct function after adjustments,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

W-2003-0199

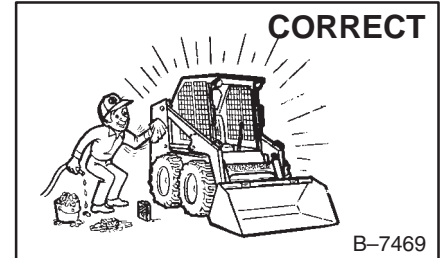
**! Safety Alert Symbol:** This symbol with a warning statement, means: "Warning, be alert! Your safety is involved!" Carefully read the message that follows.



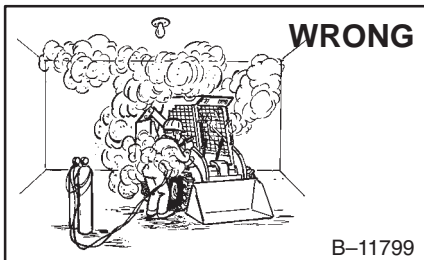
**! Never service the Bobcat® Skid Steer Loader without instructions.**



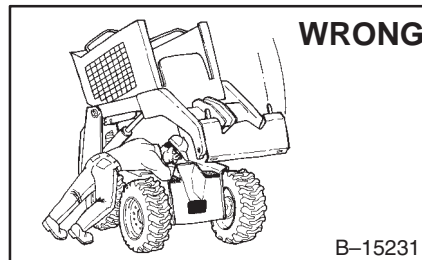
**! Use the correct procedure to lift or lower operator cab.**



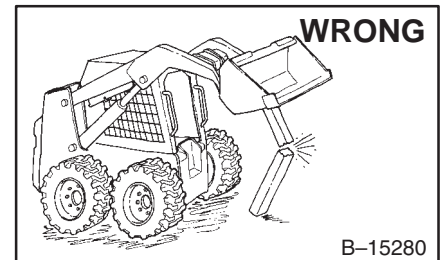
**! Cleaning and maintenance are required daily.**



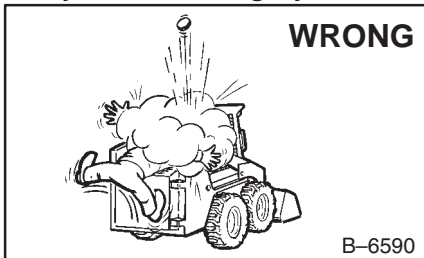
**! Have good ventilation when welding or grinding painted parts.**  
**! Wear dust mask when grinding painted parts. Toxic dust and gas can be produced.**  
**! Avoid exhaust fume leaks which can kill without warning. Exhaust system must be tightly sealed.**



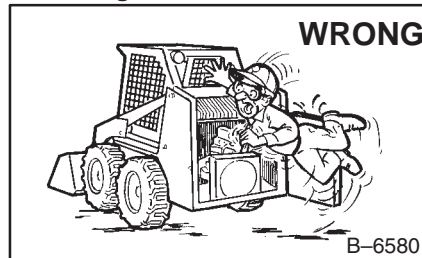
**! Disconnecting or loosening any hydraulic tubeline, hose, fitting, component or a part failure can cause lift arms to drop. Do not go under lift arms when raised unless supported by an approved lift arm support device. Replace if damaged.**



**! Never work on loader with lift arms up unless lift arms are held by an approved lift arm support device. Replace if damaged.**  
**! Never modify equipment or add attachments not approved by Bobcat Company.**



**! Stop, cool and clean engine of flammable materials before checking fluids.**  
**! Never service or adjust loader 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.**



**! Keep body, jewelry and clothing away from moving parts, electrical contacts, 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 rear door closed except for service. Close and latch door before operating the loader.**



**! 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.** The Service Safety Training Course is available from your Bobcat dealer.

MSW01-0600

## SEAT BAR RESTRAINT SYSTEM (ADVANCED HAND CONTROLS)

The seat bar restraint system has a pivoting seat bar (Item 1) [A] with arm rests.

The operator controls the use of the seat bar. The seat bar in the down position helps to keep the operator in the seat.

When the seat bar is down, the lift, tilt, and traction drive functions can be operated.

When the seat bar is up, the lift, tilt, and traction drive functions are deactivated.

### Inspecting The Seat Bar

Sit in the operator's seat. Turn the key ON and lower the seat bar. Both lights on the left handle should be ON.

Move each hand control back and forth. You should hear the *zip, zip* sound of the lift and tilt actuators moving the control valve spools (under the seat).

Raise the seat bar fully. Both lights on the left handle should be OFF.

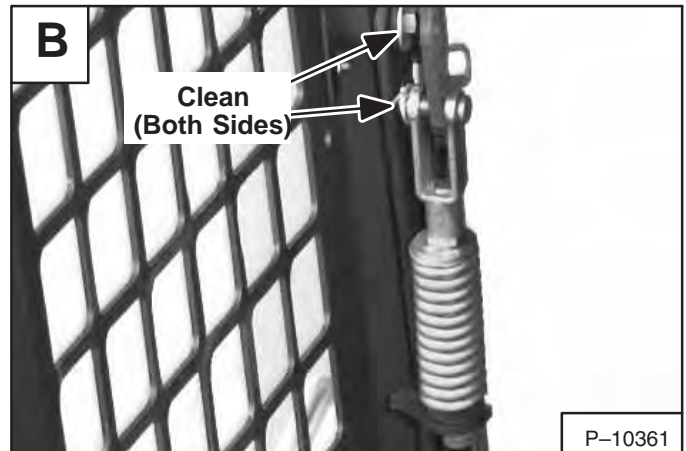
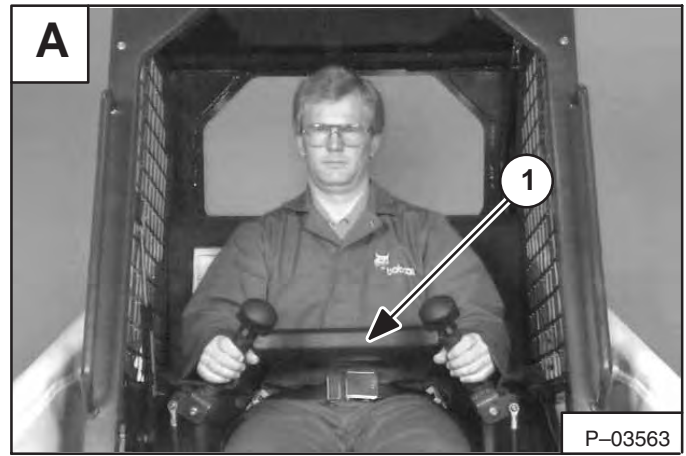
Move each hand control back and forth. There must be no sound of the lift or tilt actuators. If either actuator makes a sound while the seat bar is raised, contact your dealer for service.

### Maintaining The Seat Bar

See the *SERVICE SCHEDULE* Page 43 for correct service interval.

Clean any debris or dirt from the moving parts [B].

If the seat bar system does not function correctly replace parts that are worn or damaged. Use only genuine Bobcat replacement parts.



## WARNING

Before you leave the operator's seat:

- Lower the lift arms, put the attachment flat on the ground.
- Stop the engine.
- Engage the parking brake.
- Raise seat bar.
- (*Advanced Hand Controls*) Move the hand controls to the NEUTRAL POSITION to make sure that both lift and tilt functions are deactivated.

The seat bar system must deactivate the lift and tilt control functions when the seat bar is up. Service the system if hand controls do not deactivate.

W-2321-0698

## ENGINE COOLING SYSTEM

Check the cooling system every day to prevent over-heating, loss of performance or engine damage.

### **WARNING**

Wear safety glasses to prevent eye injury when any of the following conditions exist:

- When fluids are under pressure.
- Flying debris or loose material is present.
- Engine is running.
- Tools are being used.

W-2019-1285

### Cleaning The Cooling System

Open the rear door and raise the rear grill.

Use air pressure or water pressure to clean the top of the oil cooler [A].

Raise the oil cooler and clean the top of the radiator [B].

Check cooling system for leaks.

Lower the rear grill and close the rear door.

### Checking The Coolant Level

Open the rear door.

Check the coolant level in the coolant recovery tank (Item 1) [C].

The coolant recovery tank must be 1/3 full.

Close the rear door before operating the loader.

### **IMPORTANT**

#### **AVOID ENGINE DAMAGE**

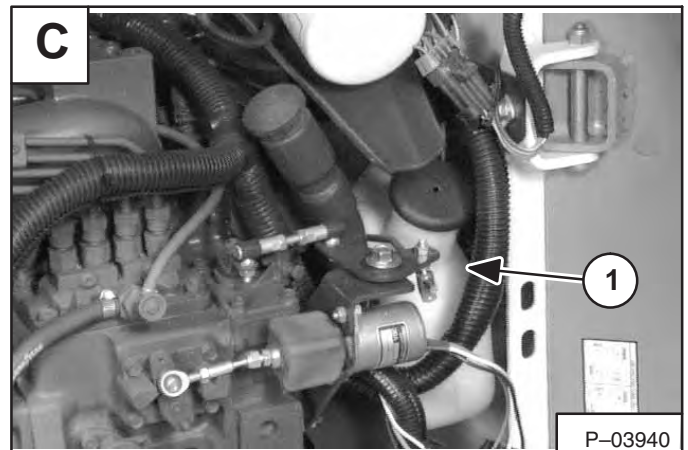
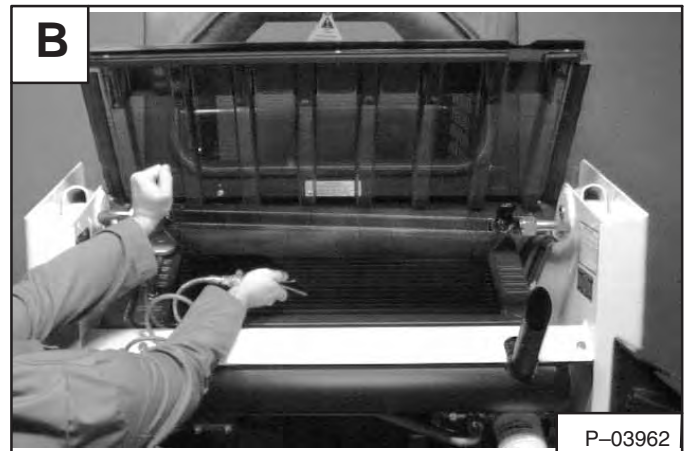
Always use the correct ratio of water to anti-freeze.

Too much antifreeze reduces cooling system efficiency and may cause serious premature engine damage.

Too little antifreeze reduces the additives which protect the internal engine components; reduces the boiling point and freeze protection of the system.

Always add a premixed solution. Adding full strength concentrated coolant can cause serious premature engine damage.

I-2124-0497



## SPARK ARRESTOR MUFFLER

See the *SERVICE SCHEDULE* Page 43 for service interval for cleaning the spark arrestor muffler.

Do not operate the loader with a defective exhaust system.

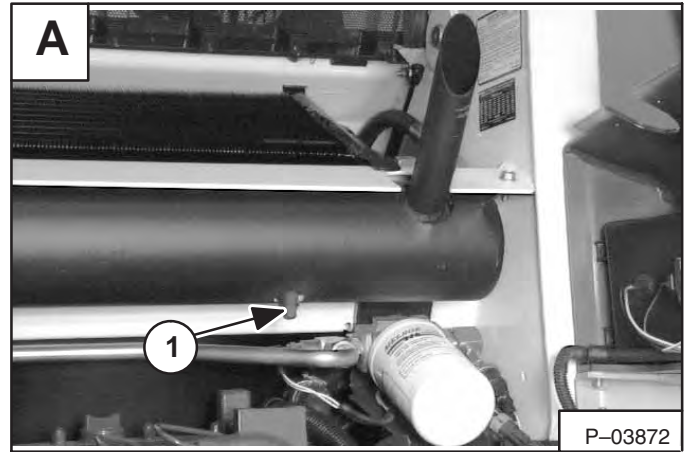
### IMPORTANT

This loader is factory equipped with a U.S.D.A. Forestry Service approved spark arrestor muffler. It is necessary to do maintenance on this spark arrestor muffler to keep it in working condition. The spark arrestor muffler must be serviced by dumping the spark chamber every 100 hours of operation.

If this machine is operated on flammable forest, brush or grass covered land, it must be equipped with a spark arrestor attached to the exhaust system and maintained in working order. Failure to do so will be in violation of California State Law, Section 4442 PRC.

Make reference to local laws and regulations for spark arrestor requirements.

I-2022-0595



### ! WARNING

When an engine is running in an enclosed area, fresh air must be added to avoid concentration of exhaust fumes. If the engine is stationary, vent the exhaust outside. Exhaust fumes contain odorless, invisible gases which can kill without warning.

W-2050-1285

Stop engine and allow the muffler to cool before cleaning the spark chamber. Wear safety glasses or goggles. Failure to obey can cause serious injury.

W-2011-1285

Never use machine in atmosphere with explosive dust or gases or where exhaust can contact flammable material. Failure to obey warnings can cause injury or death.

W-2068-1285

### ! WARNING

When the engine is running during service, the steering levers must be in neutral and the parking brake engaged. Failure to do so can cause injury or death.

W-2006-0284

Start the engine and run for about 10 seconds while a second person, wearing safety glasses, holds a piece of wood over the outlet of the muffler.

This will force contaminants out through the cleanout hole.

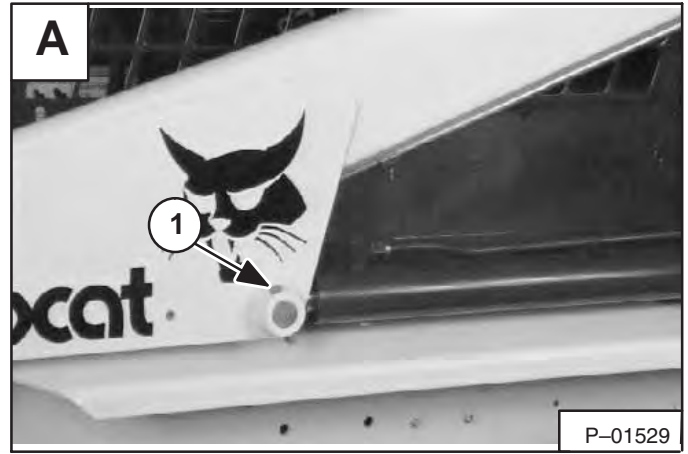
Stop the engine. Install and tighten the plug.

Lower the rear grill and close the rear door before operating the loader.

## PIVOT PINS

All lift arm and cylinder pivots have a large pin held in position with a retainer bolt and lock nut (Item 1) **[A]**.

Check that the lock nuts are tightened to 18–20 ft.-lbs. (24–27 Nm) torque.



## IMPORTANTE (SPANISH)

ESTA MAQUINA ESTA EQUIPADA POR LA FABRICA CON UN AMORTIGUADOR DE CHISPAS DEL SILENCIADOR, APROBADO POR EL SERVICIO DE SILVICULTURA DEL U.S.D.A. (DEPARTAMENTO DE AGRICULTURA DE LOS ESTADOS UNIDOS).

ES NECESARIO LIMPIAR ESTE AMORTIGUADOR DE CHISPAS DEL SILENCIADOR PARA MANTENERLO EN BUEN ESTADO. HAY QUE DARLE SERVICIO AL AMORTIGUADOR, VACIANDO LA CAMARA DE CHISPAS CADA 100 HORAS DE FUNCIONAMIENTO.

SI ESTA MAQUINA ESTA DESTINADA PARA TRABAJAR EN BOSQUES, MA TORRALES O EN PASTOS QUE PUEDAN INCENDIARSE, ENTONCES TIENE QUE ESTAR EQUIPADA CON UN AMORTIGUADOR DE CHISPAS EN EL SISTEMA DEL ESCAPE Y TIENE QUE MANTENERSE EN PERFECTAS CONDICIONES DE TRABAJO. ES NO HACER ESTO CONSTITUYE UNA INFRACCION DE LA LEY ESTATAL DE CALIFORNIA, SECCION 4442, PRC.

REFIERASE A LAS LEYES Y REGULACIONES LOCALES EN CUANTO A LOS REQUISITOS DEL AMORTIGUADOR DE CHISPAS.

## IMPORTANT (FRENCH)

CETTE CHARGEUSE EST EQUIPEE A LA SORTIE DE L'USINE D'UN SILENCIEUX PARE-ETINCELLES APPROUVE PAR LE SERVICE DES EAUX ET FORETS DES ETATS-UNIS.

IL EST INDISPENSABLE D'EFFECTUER UN ENTRETIEN REGULIER DE CE PARE-ETINCELLES AFIN DE LE GARDER EN BON ETAT DE MARCHE. L'ENTRETIEN CONSISTE A VIDER LA CHAMBRE A ETINCELLES TOUTES LES 100 HEURES DE MARCHE.

SI CET ENGIN EST UTILISE SUR UN TERRAIN COUVER D'ARBRES, DE BROUSSAILLES, OU D'HERBAGES INFLAMMABLES, IL FAUT INSTALLER LE PARE-ETINCELLES ET LE GARDER EN BON ETAT DE MARCHE.

CONSULTER LES REGLEMENTATIONS LOCALES APPLICABLES.

## IMPORTANT

THIS MACHINE IS FACTORY EQUIPPED WITH A U.S.D.A. FORESTRY SERVICE APPROVED SPARK ARRESTOR MUFFLER.

IT IS NECESSARY TO CLEAN THIS SPARK ARRESTOR MUFFLER TO KEEP IT IN WORKING CONDITION. THE SPARK ARRESTOR MUFFLER MUST BE SERVICED BY DUMPING THE SPARK CHAMBER EVERY 100 HOURS OF OPERATION.

IF THIS MACHINE IS OPERATED ON FLAMMABLE FOREST, BRUSH OR GRASS COVERED LAND, IT MUST BE EQUIPPED WITH A SPARK ARRESTOR ATTACHED TO THE EXHAUST SYSTEM AND MAINTAINED IN WORKING ORDER. FAILURE TO DO SO WILL BE IN VIOLATION OF CALIFORNIA STATE LAW, SECTION 4442, PRC.

REFER TO LOCAL LAWS AND REGULATIONS FOR SPARK ARRESTOR REQUIREMENTS.

SEE THE OPERATION AND MAINTENANCE MANUAL FOR MORE INSTRUCTIONS.

PARA MÁS INSTRUCCIONES, VEA EL MANUAL DE OPERACIÓN Y MANTENIMIENTO.

WEITERE ANWEISUNGEN FINDEN SIE IN DER BEDIENTUNGS- UND INSTANDHALTUNGSANLEITUNG.

VOIR LE MANUEL DE L'OPÉRATEUR ET D'ENTRETIEN POUR D'AUTRES RENSEIGNEMENTS.

6560573

CLICK HERE TO **DOWNLOAD** THE COMPLETE MANUAL

- Thank you very much for reading the preview of the manual.
- You can download the complete manual from: [www.heydownloads.com](http://www.heydownloads.com) by clicking the link below



- Please note: If there is no response to CLICKING the link, please download this PDF first and then click on it.

CLICK HERE TO **DOWNLOAD** THE COMPLETE MANUAL