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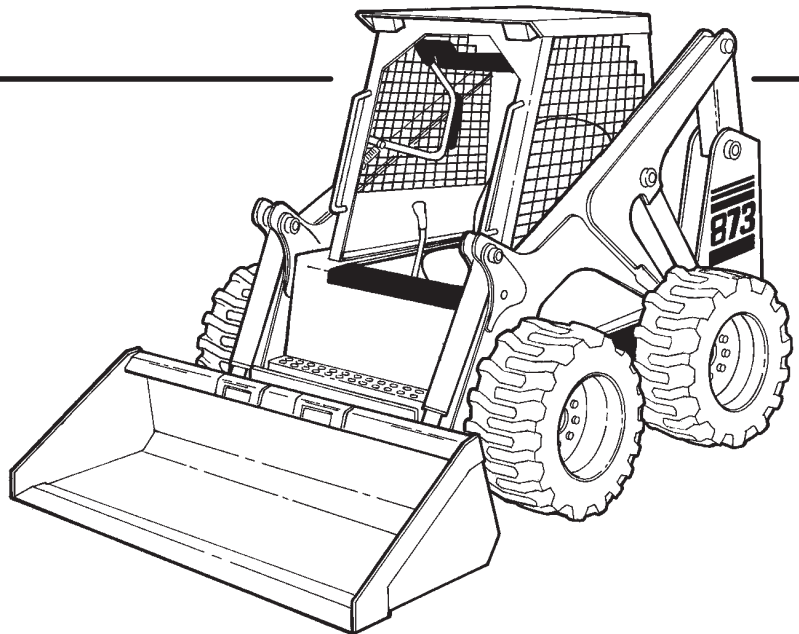


Bobcat®

Operation & Maintenance Manual

S/N 514123810 thru 514139999

S/N 514222300 thru 514239999



EQUIPPED WITH
BOBCAT INTERLOCK
CONTROL SYSTEM (BICS™)

6900791 (7-99) Revised (9-00)

IR Bobcat®
Printed in U.S.A.

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OPTIONS AND ACCESSORIES

Model 873 Bobcat loaders are equipped with the following Standard items:

- Bob-Tach
- Spark Arrestor Exhaust System (Turbo Charger)
- 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, 12–16.5, 10PR 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

31 x 15.5–15, 8PR Ultra Grip Tread	Opt. & FA
8.25 x 15 Air Boss Segmented Tires	FA
12 x 16.5 Air Boss Segmented 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. FA
Keyless Start System	FA

Hydraulics

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

Other

Catalytic Exhaust Purifier	Opt. & FA
Engine Heater (Oil Pan)	FA
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

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OPERATING INSTRUCTIONS

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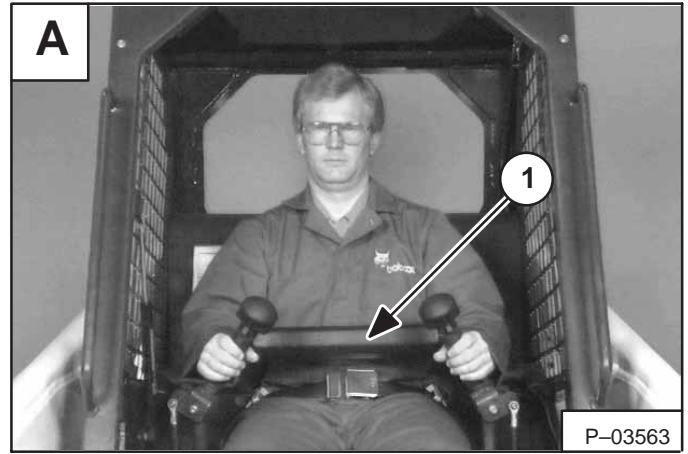
SEAT BAR RESTRAINT SYSTEM (MECHANICAL HAND CONTROLS)

The seat bar restraint system has a pivoting seat bar (Item 1) [A] with arm rests and has spring loaded interlocks for the lift and tilt control functions.

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

The interlocks require the operator to lower the seat bar in order to operate the hand controls.

When the seat bar is up, the lift and tilt control functions are locked when returned to the NEUTRAL POSITION.



! **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 foot rests.

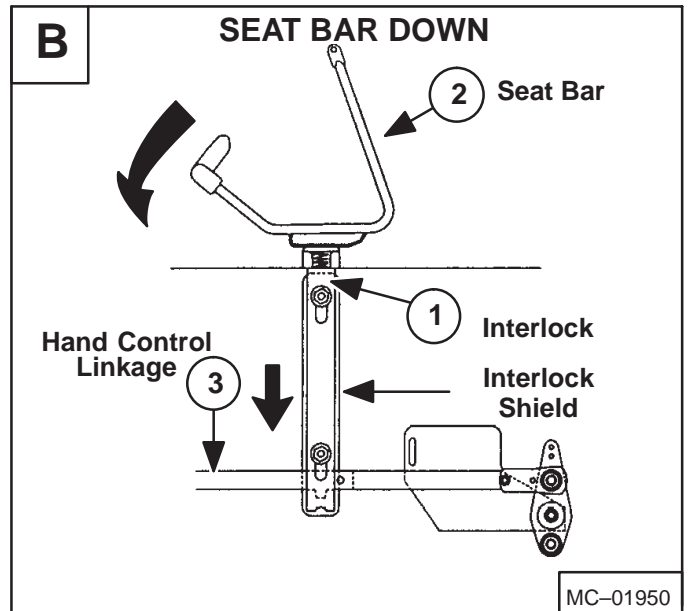
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Before you leave the operator's seat:

- Lower the lift arms, put the attachment flat on the ground.
- Stop the engine.
- Engage the parking brake.
- Raise seat bar, move hand controls until both lock.

The seat bar system must lock the lift and tilt control in neutral when the seat bar is up. Service the system if hand controls do not lock correctly.

W-2153-0594



The spring loaded interlocks (Item 1) [B] control the locking and unlocking functions of the hand controls.

The interlocks (Item 1) [B] require the operator to lower the seat bar (Item 2) [B] which allows the operator to move the hand controls to control the lift and tilt functions.

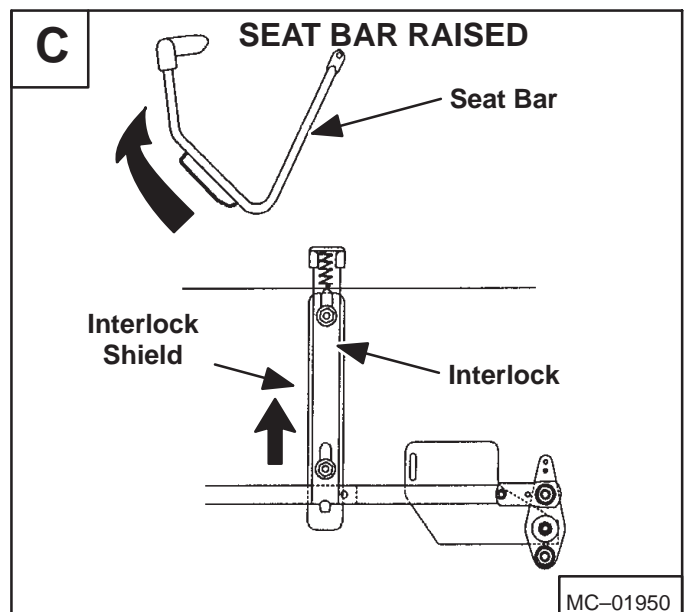
When the seat bar is lowered, it pushes the interlock (Item 1) [B] down on both sides, releasing the hand control linkages (Item 3) [B] from the interlocks.

The hand controls will pivot in both directions when the interlock is down.

When the seat bar is raised, spring forces raise the interlocks [C].

The hand controls will not function when the interlock is up.

Refer to *SEAT BAR RESTRAINT SYSTEM Inspecting and Maintaining The Seat Bar* Page 46.



STARTING THE ENGINE (Cont'd)

Normal Starting (With BOSS®)

Put the foot pedals (or hand controls) and steering levers in NEUTRAL POSITION (center) (Item 1) [A].

Be sure the parking brake is engaged.

Set the engine speed control to 1/2 SPEED position (Item 2) [A].

Turn the key switch to the ON POSITION, one beep will sound and the display symbols will be ON [B].

Turn the key switch to the START POSITION. (See **Cold Temperature Starting**. Release the key when the engine starts.

Advanced Hand Controls Only: Make sure both hand controls are in neutral before starting the engine. **Do not move** the Advanced Hand Control levers from the neutral position when turning the key ON.

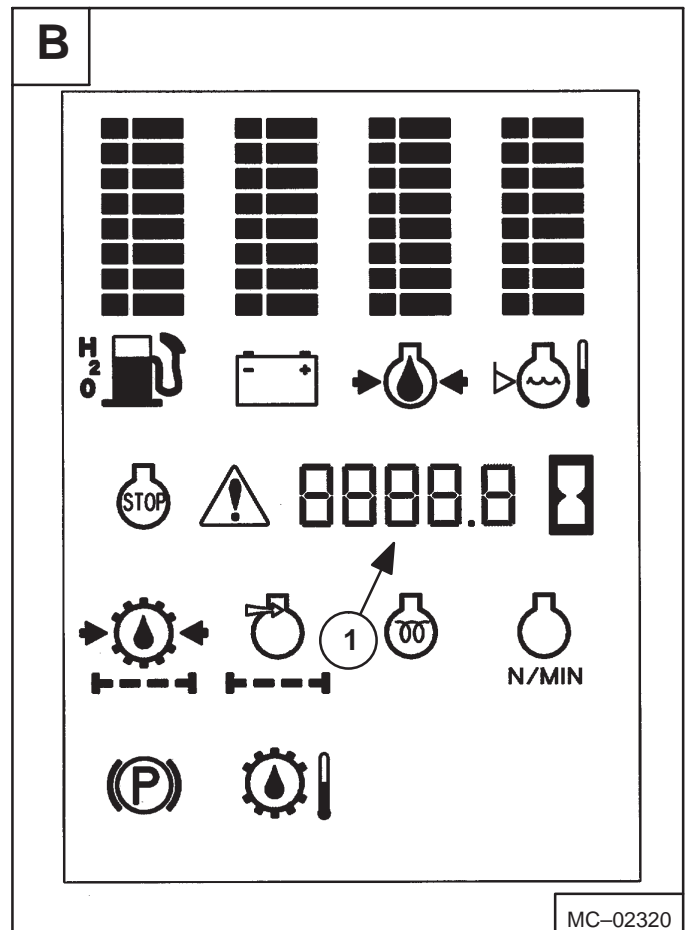
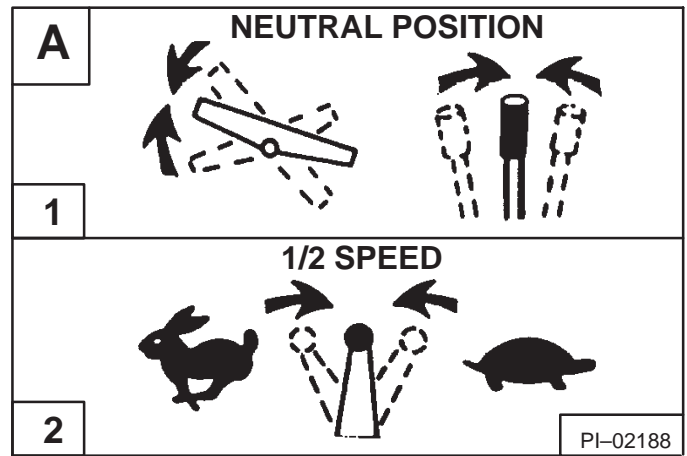
If either hand control is moved:

- a. – The neutral position for the hydraulic valve spool and hand control **may not be** correctly calibrated. This can result in movement of the lift or tilt hydraulic cylinders when the hand control lever is returned to the neutral position after start– up.

OR

- b. – The hydraulics will not operate (corresponding diagnostic lights on the left handle will blink).

If either condition occurs, turn the key OFF. Put the controls in neutral position and re–start the engine.



IMPORTANT

Do not engage the starter for longer than 15 seconds at a time. Longer use can damage the starter by overheating. Cool the starter for one minute between uses.

I-2034-0284

When the key switch is turned ON, watch the alpha numeric display for Service Codes (Item 1) [B]. These codes are from the previous work shift when a WARNING may have occurred. (See *SYSTEMS ANALYSIS* Page 73.)

The codes may be viewed again by turning the key switch OFF and then ON again without starting the engine.

After the engine has been started, the BOSS controller will clear all codes from memory. The codes will not appear again unless the problem recurs. The alphanumeric display will again show the operating hours.

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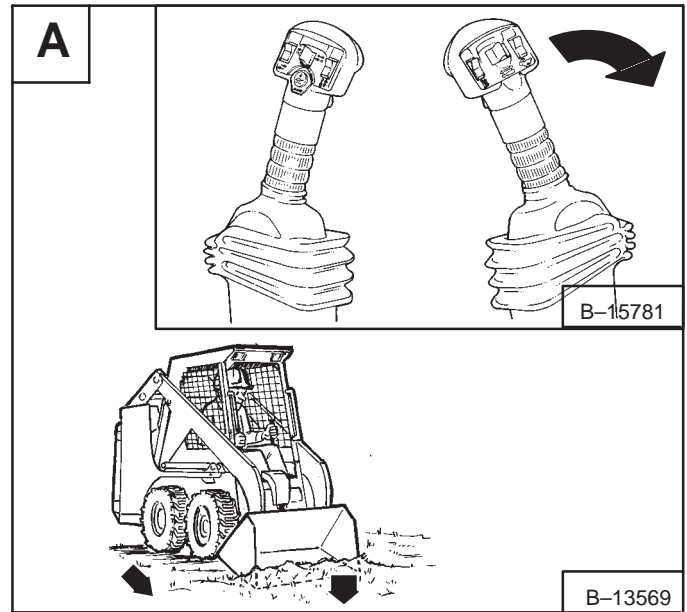
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OPERATING PROCEDURE (HAND CONTROLS) (Cont'd)

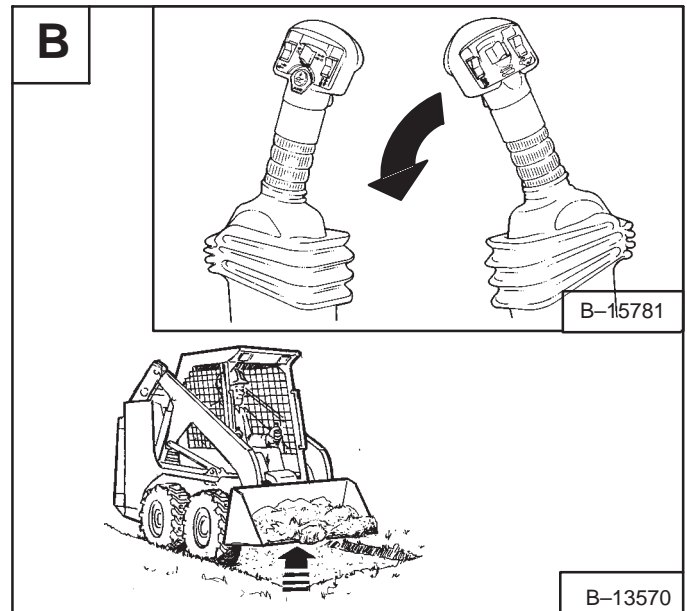
Digging Into The Ground

Put the lift arms all the way down. Move the right hand lever away from the operator until the cutting edge of the bucket is on the ground. Drive forward slowly and continue to tilt the bucket down until it enters the ground [A].

Move the right hand lever toward the operator a small amount to increase traction and keep an even digging depth. Continue to drive forward until the bucket is full. When the ground is hard, raise and lower the cutting edge of the bucket with the hand lever while driving forward slowly.



Move the right hand lever toward the operator to tilt the bucket backwards as far as it will go when the bucket is full [B].



Leveling The Ground (Using Lift Arms In Float Position)

Move the left hand lever all the way down and in until the hand lever is in the locked position to put the lift arms in a float position [C].

Later AHC Models With Float Button

- Press and hold the Float Button (Item 1) [C] before moving the lever.
- Press again to disengage.

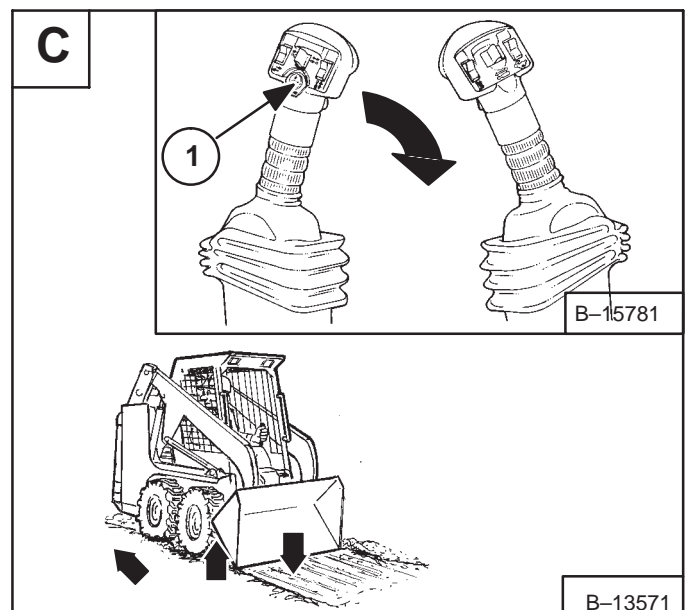
Move the right hand lever to change the position of the cutting edge on the bucket. With the bucket tilted farther forward, there is more force on the cutting edge and more loose material can be moved.

IMPORTANT

Never drive forward when the hydraulic control for lift arms is in float position.

I-2005-1285

Drive backward to level loose material. Move the left hand lever upward to unlock from the float position.



OPERATOR CAB



The Bobcat loader has an operator cab (ROPS and FOPS) as standard equipment to protect the operator from rollover and falling objects [A]. Check with your dealer if the operator cab has been damaged.

ROPS/FOPS – Roll Over Protective Structure per SAE J1040 and ISO 3471, and Falling Object Protective Structure per SAE J1043 and ISO 3449, Level I. Level II is available.

Level I – Protection from falling bricks, small concrete blocks and hand tools encountered in operations such as highway maintenance, landscaping, and other construction site services.

Level II – Protection from falling trees, rocks; for machines involved in site clearing, overhead demolition or forestry.



IMPORTANT

Use care when raising or lowering the operator cab to prevent damaging the shaft of the lift arm by-pass control.

I-2070-0596

⚠ WARNING

Never modify operator cab by welding, grinding, drilling holes or adding attachments unless instructed to do so by Bobcat Company. Changes to the cab can cause loss of operator protection from rollover and falling objects, and result in injury or death.

W-2069-1285

⚠ WARNING

Before the cab or the lift arms are raised for service, jackstands must be put under the rear corners of the frame. Failure to use jackstands can allow the machine to tip backward causing injury or death.

W-2014-0895

REAR GRILL

Open the rear door.

Lift the panel over the top of the muffler and put it on top of the rear grill **[A]**.



Lift and pull the rear grill and remove it from the loader **[B]**.



ELECTRICAL SYSTEM (Cont'd)

Removing And Installing The Battery

WARNING

Batteries contain acid which burns eyes and skin on contact. Wear goggles, protective clothing and rubber gloves to keep acid off body.

In case of acid contact, wash immediately with water. In case of eye contact get prompt medical attention and wash eye with clean, cool water for at least 15 minutes.

If electrolyte is taken internally drink large quantities of water or milk. DO NOT induce vomiting. Get prompt medical attention.

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Open the rear door.

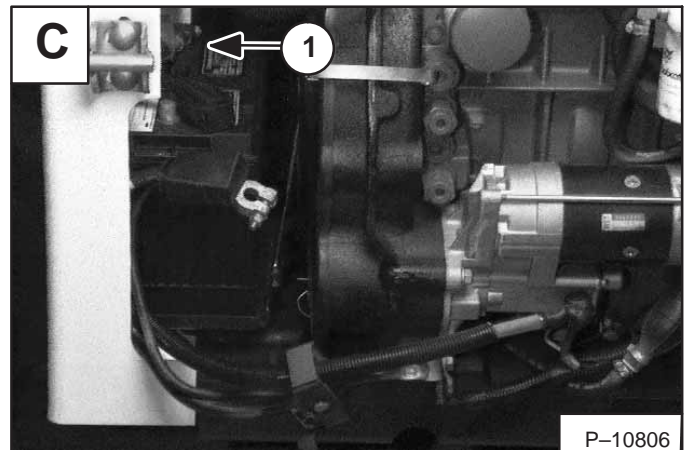
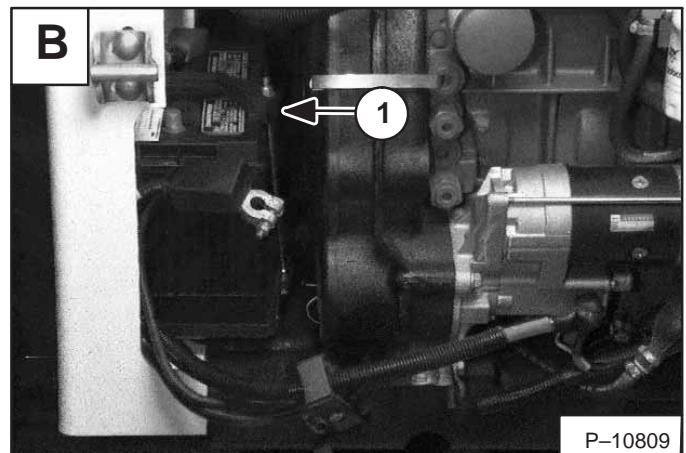
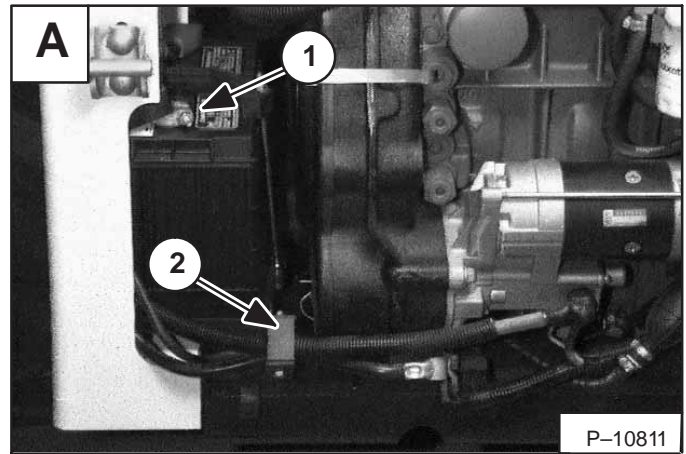
Disconnect the negative (-) cable (Item 1) [A] from the battery.

Disconnect the main frame ground bolt and cable clamp (Item 2) [A]

Remove the battery hold down clamp (Item 1) [B].

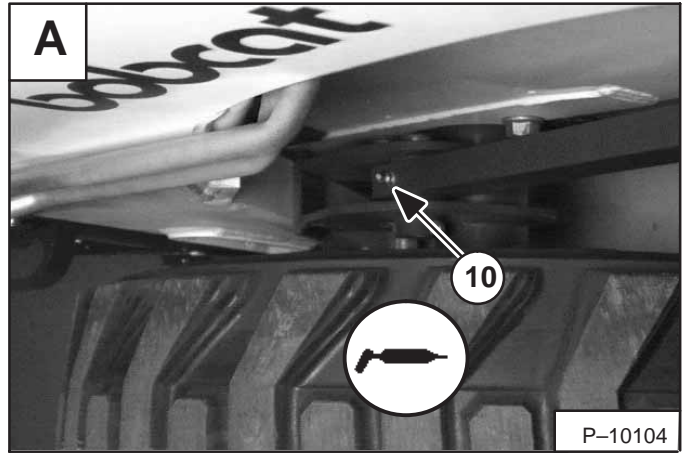
Disconnect the positive (+) cable (Item 1) [C] from the battery.

Remove the battery from the loader.

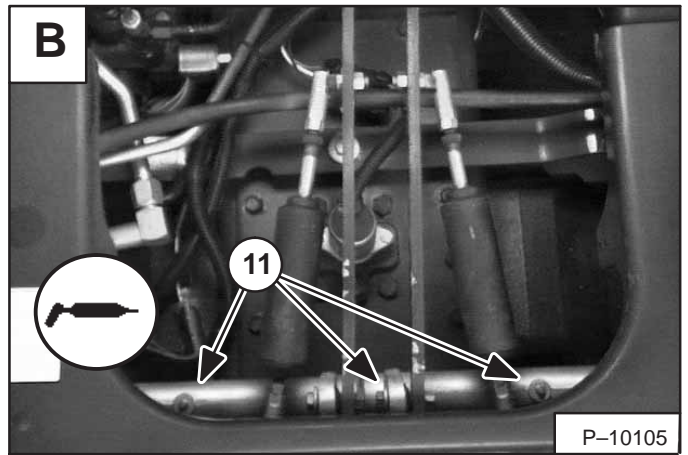


LUBRICATING THE BOBCAT LOADER (Cont'd)

10. Control Link (Both Sides) [A]



11. 250 Hours: Steering Lever Shaft (3) [B].



IMPORTANTE (SPANISH)

873

ESTE MODELO DE CARGADOR VIENNE EQUIPADO DE FÁBRICA CON UN SISTEMA DE ESCAPE CON DISPOSITIVO PARACHISPAS APROBADO POR EL SERVICIO FORESTAL DEL MINISTERIO DE AGRICULTURA DE LOS ESTADOS UNIDOS.

EL TURBOALIMENTADOR DEBE ESTAR FUNCIONANDO PARA MANTENER OPERANDO EL SISTEMA DE ESCAPE CON DISPOSITIVO PARACHISPAS.

SI SE OPERA ESTA MÁQUINA EN BOSQUES INFLAMABLES, MATORRALES O TERRENOS CUBIERTOS DE PASTOS, ÉSTA DEBE ESTAR EQUIPADA CON UN DISPOSITIVO PARACHISPAS CONECTADO AL SISTEMA DE ESCAPE Y DEBE MANTENERSE EN BUENAS CONDICIONES DE FUNCIONAMIENTO. EL NO HAVERLO CONSTITUYE UNA VIOLACIÓN A LA LEY DEL ESTADO DE CALIFORNIA, SECCIÓN 4442. PRC.

CONSULTE LAS LEYES Y REGULACIONES LOCALES SOBRE REQUISITOS RELACIONADOS CON LOS DISPOSITIVOS PARACHISPAS.

PARA MAS INSTRUCCIONES, CONSULTE EL MANUAL DE OPERACIÓN Y MANTENIMIENTO.

IMPORTANT (FRENCH)

873

LE SYSTÈME D'ÉCHAPPEMENT DE CETTE CHARGEUSE EST ÉQUIPÉ D'UN PARA-ÉTINCELLES INSTALLÉ EN USINE ET APPROUVÉ PAR LE SERVICE DES FORÊTS DU DÉPARTEMENT DE L'AGRICULTURE DES ÉTATS-UNIS (U.S.D.A. FORESTRY SERVICE).

LE TURBOCOMPRESSEUR DOIT ÊTRE EN BON ÉTAT DE MARCHE POUR QUE LE SYSTÈME D'ÉCHAPPEMENT À PARE-ÉTINCELLE FONCTIONNE.

SI CETTE MACHINE EST UTILISÉE SUR UN TERRAIN COUVERT D'ARBRES, DE BROUSSAILLES, OU D'HERBAGES INFLAMMABLES, SON SYSTÈME D'ÉCHAPPEMENT DOIT ÊTRE ÉQUIPÉ D'UN PARE-ÉTINCELLE ET MAINTENU EN BON ÉTAT DE FONCTIONNEMENT. CETTE EXIGENCE EST IMPOSÉE PAR LA LOI DE L'ÉTAT DE LA CALIFORNIE, SECTION 4442. PRC.

CONSULTER LA RÉGLEMENTATION LOCALE RELATIVE AUX PARE-ÉTINCELLES. CONSULTER LE MANUEL DE L'OPÉRATEUR ET D'ENTRETIEN POUR DE PLUS AMPLES RENSEIGNEMENTS.

IMPORTANT

873

THIS MODEL LOADER IS FACTORY EQUIPPED WITH A U.S.D.A. FORESTRY SERVICE APPROVED SPARK ARRESTOR EXHAUST SYSTEM.

THE TURBOCHARGER MUST OPERATE TO KEEP THE SPARK ARRESTOR EXHAUST SYSTEM IN WORKING CONDITION.

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.

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