



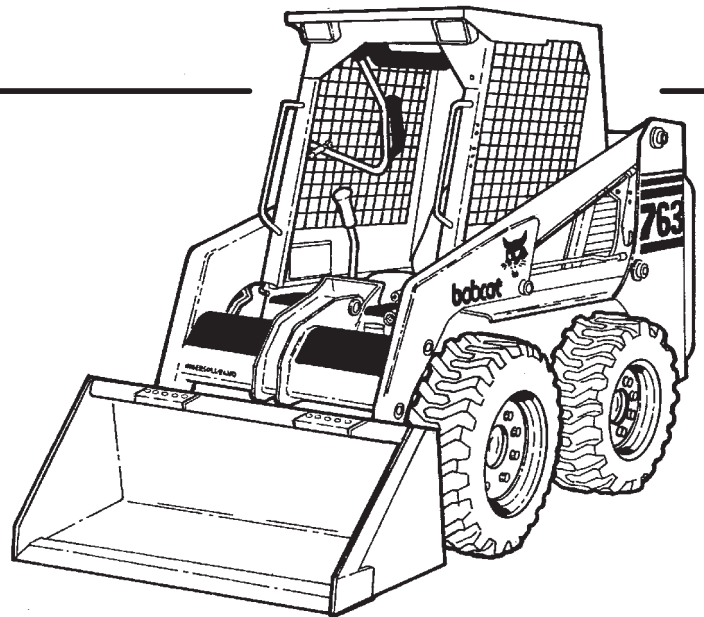
Bobcat®

Operation & Maintenance Manual

S/N 512235900 thru 512249999

S/N 512442000 thru 512449999

S/N 512613600 thru 512619999



EQUIPPED WITH
BOBCAT INTERLOCK
CONTROL SYSTEM (BICS™)

6900788 (7-99) Revised (9-00)



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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**

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OPERATING INSTRUCTIONS

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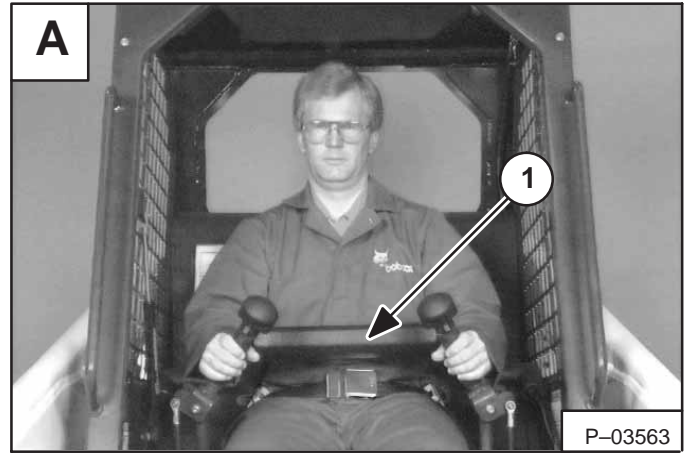
SEAT BAR RESTRAINT SYSTEM (MECHANICAL HAND CONTROLS)

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.



P-03563

! 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 footrests.

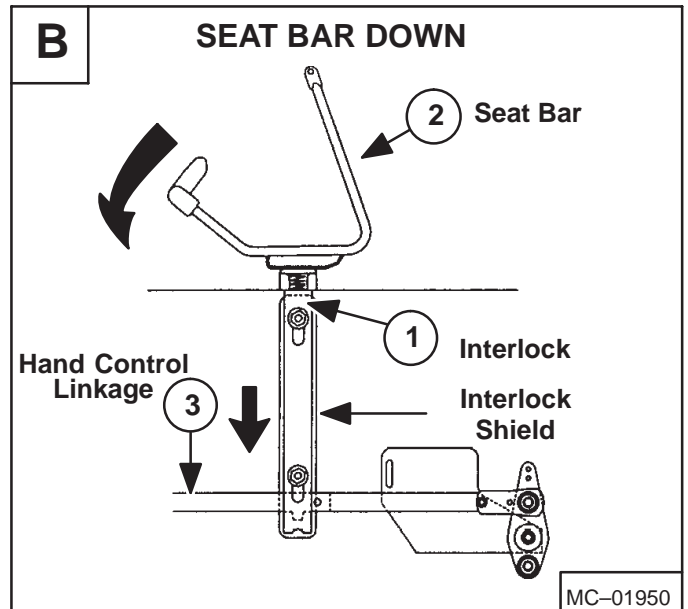
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The spring loaded interlocks (Item 1) [B] control the locking and unlocking functions of the hand controls.

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.



MC-01950

! WARNING

Before you leave the operator's seat:

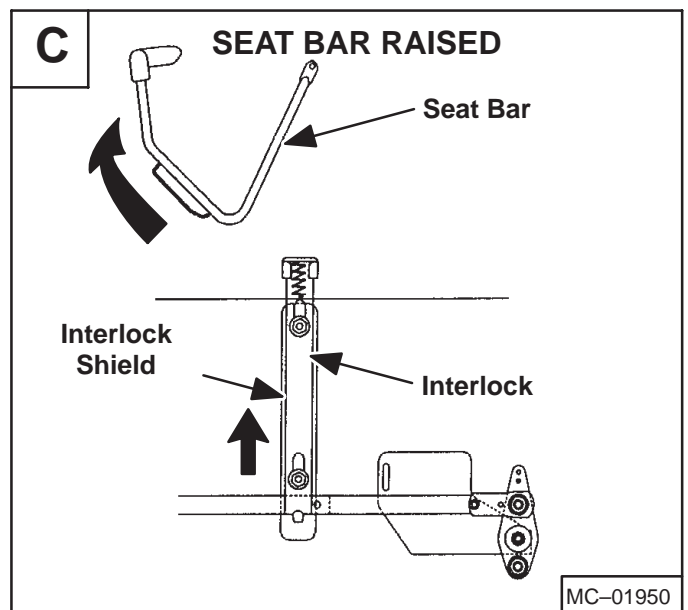
- Lower the lift arms, put the attachment flat on the ground.
- Stop the engine.
- Engage the parking brake.
- Raise seat bar.
- *(Mechanical Hand Controls)* Move the hand controls until both lock. The seat bar system must lock the lift and tilt controls in neutral when the seat bar is up. Service the system if hand controls do not lock correctly.

W-2322-0698

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 48.



MC-01950

STARTING THE ENGINE (Cont'd)

Normal Starting (Without BOSS®)

Foot Pedals: Adjust the seat position for comfortable operation of the foot pedals and steering levers.

Hand Controls: Adjust the seat position for comfortable operation of the steering levers with your feet on the footrests.

Fasten the seat belt snugly and adjust it so the buckle is centered between your hips.

Lower the seat bar [A].

Put the hydraulic controls and steering levers in NEUTRAL POSITION (center) (Item 1) [B].

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

Turn the key switch to the ON POSITION (Item 3) [B]. The engine and transmission warning lights will be ON when the key switch is on and the engine is stopped (Item 3) [B].

Turn the key switch to START POSITION (Item 4) [B] and release it 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

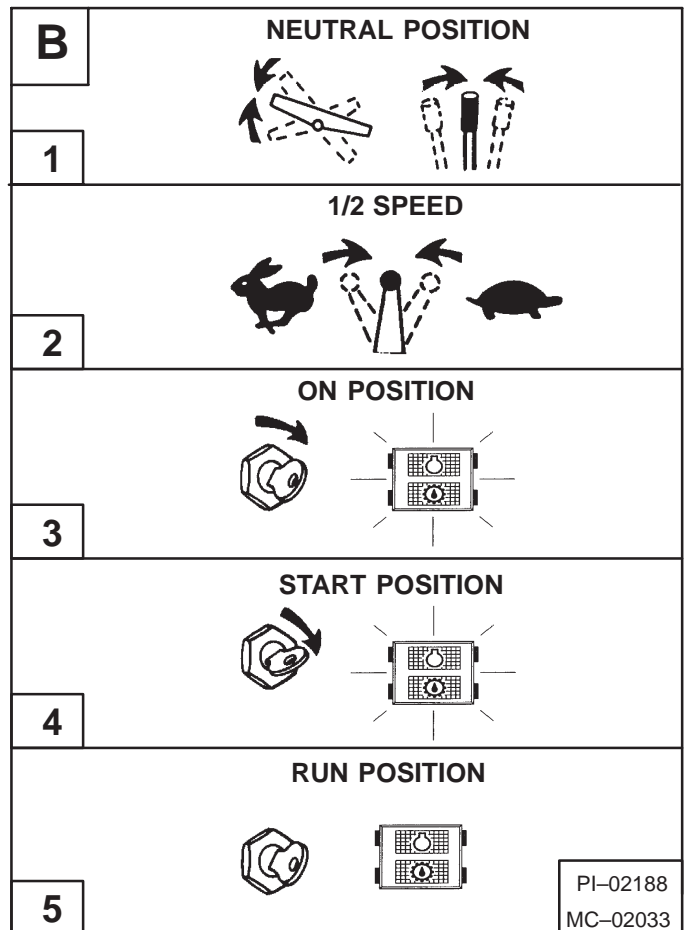
- b. – The hydraulics will not operate (corresponding diagnostic lights on the left handle will blink).

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

When you release the key, it will return to the RUN POSITION (Item 5) [B].

STOP THE ENGINE IF THE WARNING LIGHTS DO NOT GO OFF.

NOTE: Upon failed start, if the key switch is turned OFF, wait for at least three seconds before turning the key switch ON to reset the fuel timer module.



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

OPERATING PROCEDURES (FOOT PEDALS) (Cont'd)

Backfilling

Lower the lift arms and put the cutting edge of the bucket on the ground.

Drive forward to the edge of the hole to push the material into the hole [A].

Tilt the bucket forward as soon as it is past the edge of the hole [A].

If necessary, raise the lift arms to empty the bucket.

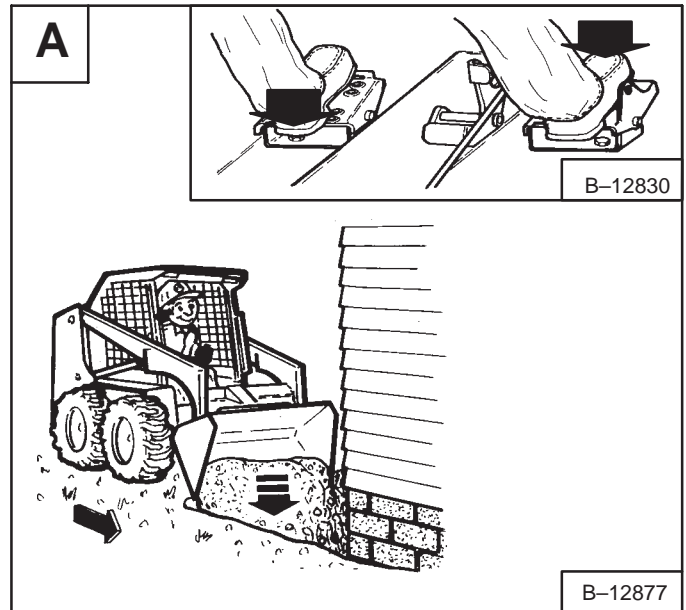
PARKING THE BOBCAT LOADER

Stop the Bobcat loader on level ground.

Lower the lift arms fully and put the attachment flat on the ground.

Pull the engine speed control lever all the way backward.

Turn the key switch to the OFF POSITION.



WARNING

AVOID INJURY OR DEATH

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 pedals until both lock.

W-2045-1086

Engage the parking brake.

Lift the seat bar and make sure the foot pedals are in the locked position.

Unbuckle the seat belt.

Remove the key from the switch to prevent operation of the loader by unauthorized personnel.

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SERVICE SCHEDULE

Maintenance work must be done at regular intervals. Failure to do so will result in excessive wear and early failures. The service schedule is a guide for correct maintenance of the Bobcat loader.



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 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

SERVICE SCHEDULE		HOURS					
ITEM	SERVICE REQUIRED	8-10	50	100	250	500	1000
Engine Oil	Check the oil level and add oil as needed.	■					
Engine Air Filter and Air System	Check condition indicator or display panel. Service only when required. Check for leaks and damaged components.						
Engine Cooling System	Clean debris from oil cooler, radiator and grill. Check coolant level in recovery tank (engine cold). Add coolant as needed.						
Tires	Check for damaged tires and correct air pressure.						
Seat Belt, Seat Bar, Foot Pedal or Hand Control Interlocks	Check the condition of seat belt. Check the seat bar, and foot pedal interlocks or hand control interlocks. Clean dirt and debris from moving parts.						
Safety Signs and Safety Tread	Check for damaged signs (decals) and safety tread. Replace any signs or safety treads that are damaged or worn.						
Indicators & Lights (Opt.)	Check for correct operation of all indicators & lights.						
Operator Cab	Check the fastening bolts, washers & nuts. Check the condition of cab.						
Lift Arms, Cyl., Bob-Tach Pivot Pins and Wedges	Lubricate with multi-purpose lithium based grease.						
Fuel Filter	Remove the trapped water.						
Bobcat Interlock Control System (BICS™)	Check BICS™ functions.						
Hydraulic Fluid, Hoses and Tubelines	Check fluid level and add as needed. Check for damage and leaks. Repair or replace as needed.		■				
Final Drive Trans.(Chaincase)	Check oil level.			■			
Foot Pedals, Hand Controls, and Steering Levers	Check for correct operation. Repair or adjust as needed.						
Wheel Nuts	<input type="checkbox"/> Check for loose wheel nuts and tighten to 105–115 ft.-lbs. (142–156 Nm) torque.		■				
Parking Brake	Check operation.						
Spark Arrestor Muffler	Clean the spark chamber.			■			
Battery	Check cables, connections and electrolyte level. Add distilled water as needed				■		
Steering Shaft	Grease two fittings.					■	
Engine/Hydros. Drive Belt	* Check for wear or damage. Adjust as needed.						■
Fan Drive Gearbox	Check gear lube level. Add as needed.						
Alternator Belt	Check belt tension and adjust as needed.						
Engine Oil and Filter	† Replace oil and filter. Use CD or better grade oil and Bobcat filter.						
Fuel Filter	Replace the filter element.						
Hydraulic Reservoir Breather Cap	Replace the reservoir breather cap.						■
Hydraulic Reservoir	Replace the fluid.						
Final Drive Trans.(Chaincase)	Replace the fluid.						
Hydraulic/Hydrostatic Filter	● Replace the filter element.						
Case Drain Filters	Replace the filters.						
Bobcat Interlock Control System (BICS™)	Check lift arm bypass control						

- Check wheel nut torque every 8 hours for the first 24 hours.
- Replace filter element after the first 50 hours and when the transmission warning light comes ON.
- Or every 12 months.
- * Inspect the new belt after first 50 hours.
- † First oil and filter change must occur at 50 hours; 250 hours thereafter.

REAR DOOR

! WARNING

AVOID INJURY

Never service or adjust the machine when the engine is running unless instructed to do so in the manual.

W-2012-0290

Keep the rear door closed when operating the machine. Failure to do so could seriously injure a bystander.

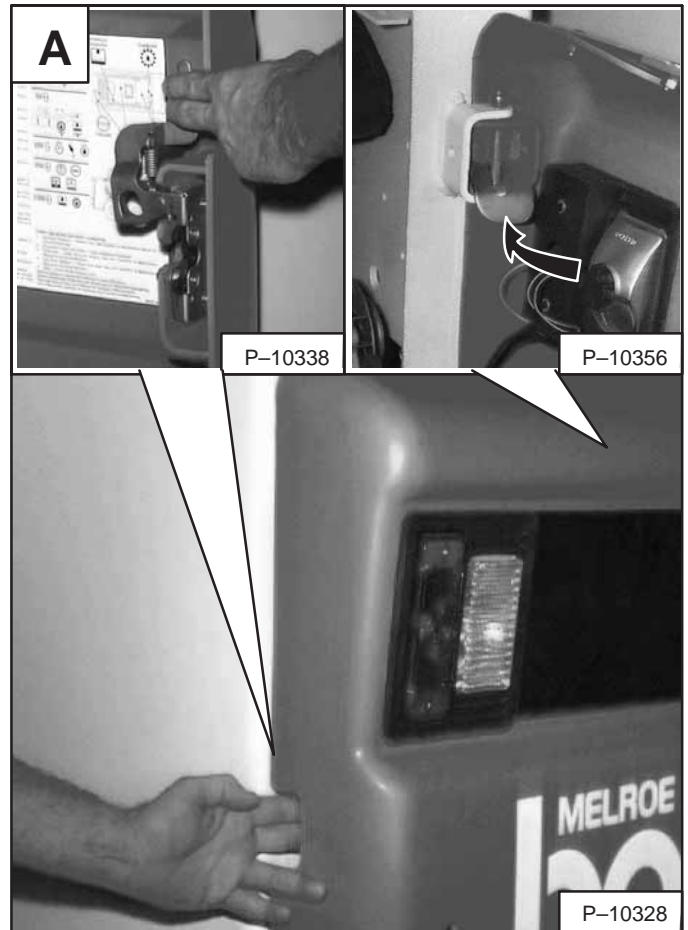
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Put your fingers into the slot in the rear door and pull on the latch handle **[A]**.

Pull the rear door open.

Push the door stop up into the top hinge before closing the rear door **[A]**.

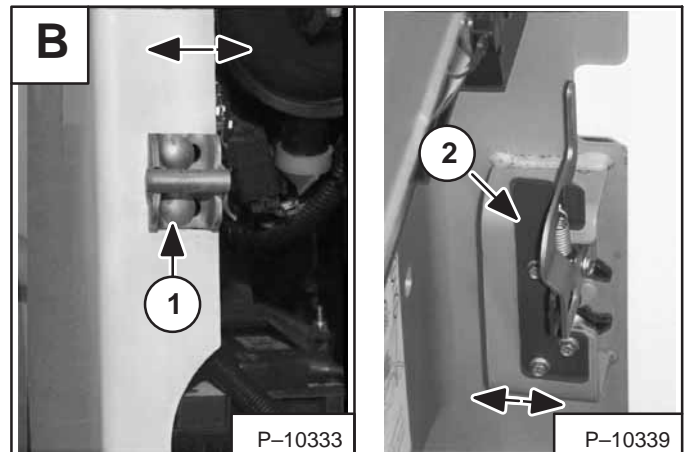
Close the rear door before operating the loader.



Latch Adjustment

The door latch catch (Item 1) **[B]** can be adjusted side to side for alignment with the door latch mechanism.

The door latch mechanism (Item 2) **[B]** can be adjusted backward or forward for alignment with the door catch.

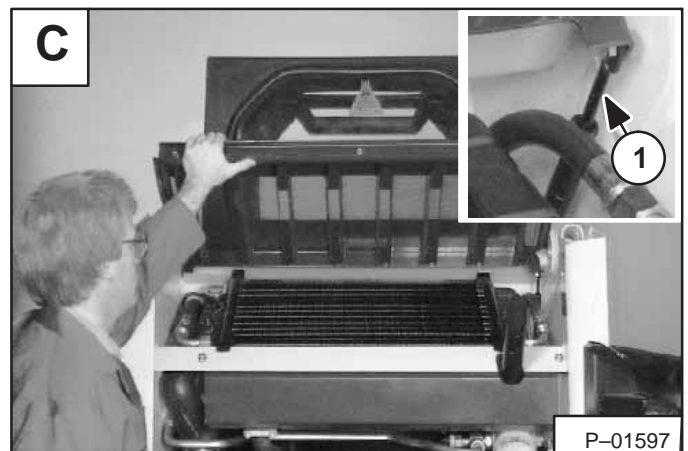


REAR GRILL

Open the rear door.

Raise the rear grill **[C]**.

The rear grill is held open by the cylinder (Item 1) **[C]** on the right side of the rear grill.



ELECTRICAL SYSTEM

Description

The loader has a 12 volt, negative ground alternator charging system. The electrical system is protected by fuses located in the engine compartment. The fuses will protect the electrical system when there is an electrical overload. The reason for the overload must be found before starting the engine again.

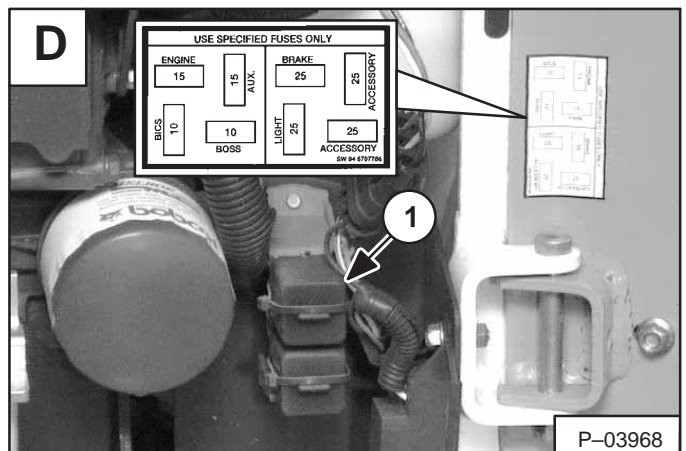
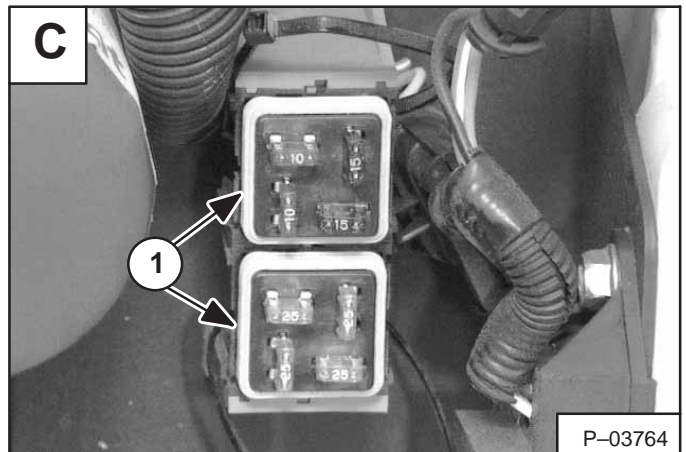
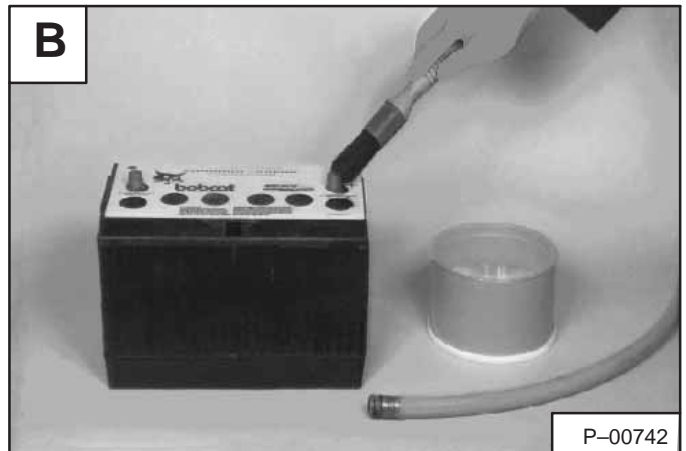
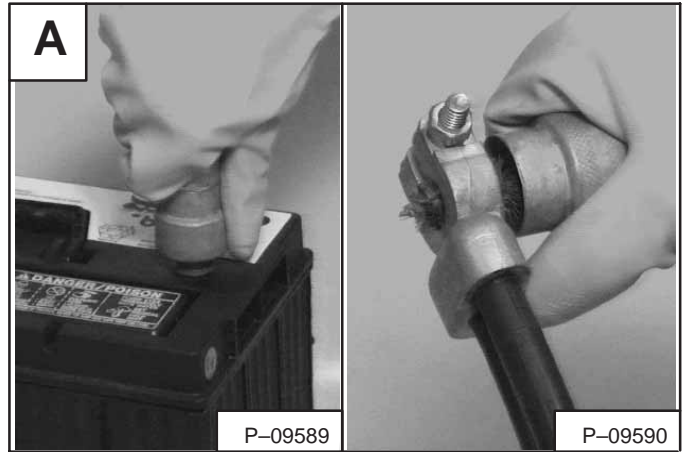
Cleaning Battery Terminals

The battery cables must be clean and connections tight. Clean the terminals and cable ends as shown in figure [A].

Remove acid or corrosion from the battery and cables with a sodium bicarbonate (baking soda) and water solution as shown in figure [B].

Check the electrolyte level in the battery. Add distilled water as needed.

Put Battery Saver P/N 6664458 or grease on the battery terminals and cable ends to prevent corrosion.



! 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.

W-2065-1296

Fuse Location – (With And Without BOSS® Option)

The electrical system is protected by eight fuses (Item 1) [C] located in the fuse block (Item 1) [D].

Remove the fuse block cover to check or replace the fuses.

Fuses protect the electrical system from an overload.

The fuse block is located in the engine compartment near the engine oil filter [D].

The decal inside the rear door shows the fuse sizes used in loader circuits [D].

FAN GEARBOX

See the *SERVICE SCHEDULE* Page 41 for the correct service interval.

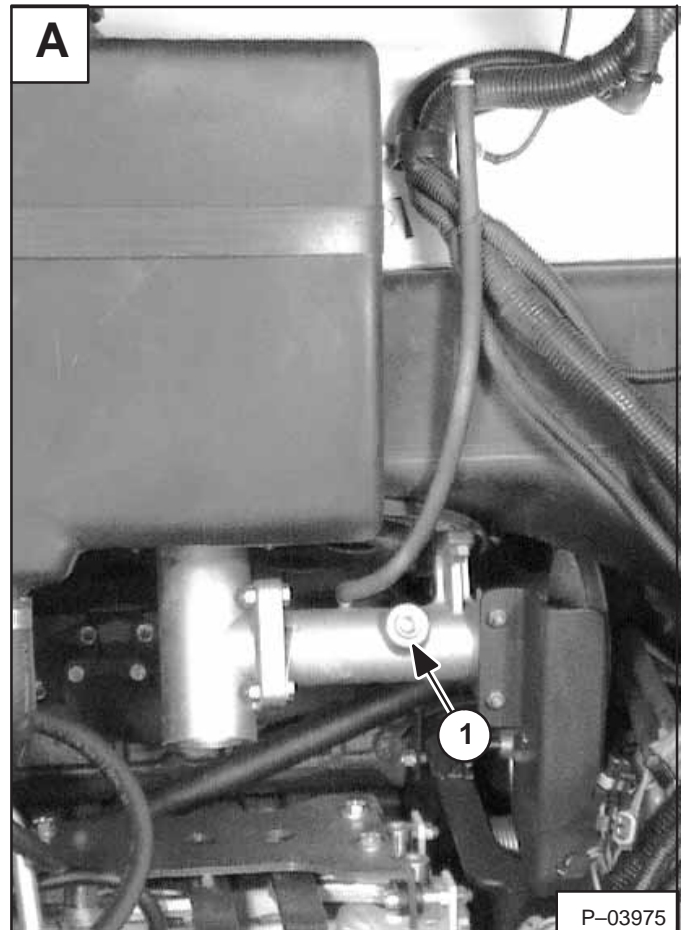
Checking And Maintaining

Raise the operator cab. (See *Raising The Operator Cab* Page 44.)




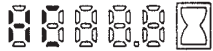
Remove the plug (Item 1) **[A]** to check the lubricant level.

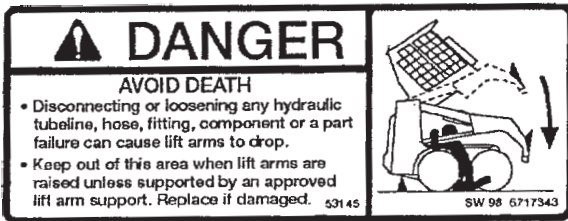
If the level is low, add SAE 90W gear lube through the check plug hole until the lubricant flows from the hole. Install and tighten the plug.

Lower the operator cab. (See *Lowering The Operator Cab* Page 45.)



SERVICE CODES

SUBJECT	DISPLAY READS	CONDITION
Hydrostatic Charge Filter Conditions 	HF1-2	WARNING, High Restriction (1st Filter)
	HF1-6	Sensor No Signal
Return Filter Condition (853, 863, 873 Only) 	HF2-2	WARNING, High Restriction
	HF2-6	Sensor No Signal
Hydrostatic Fluid 	HP 1	SHUTDOWN, Pressure
	HP 2	WARNING, Pressure
	HP 3	Wiring Not Connected
	HP 4	Wiring Shorted
	HP 5	High Sensor Voltage
	HP 7	Sensor Out Of Range
	Hydrostatic Fluid Temperature 	HC 1
HC 2		WARNING, Temperature
HC 3		Wiring Not Connected
HC 4		Wiring Shorted
HC 5		High Sensor Voltage
HC 7		Sensor Out Of Range



PELIGRO (SPANISH)

EVITE LA MUERTE

- La desconexión o el aflojamiento de cualquier tubería, manguera, conector, componente hidráulico o la falla de una parte puede ocasionar la caída de los brazos de elevación.
- Manténgase alejado del área cuando los brazos de elevación se encuentren elevados, a menos que estén sostenidos por medio de un dispositivo de soporte para brazos de elevación aprobado. Cámbielo si está dañado.

DANGER (FRENCH)

ÉVITEZ LA MORT!

- La déconnexion ou le desserrage de toute canalisation, de tout tuyau, de tout raccord et de tout composant de circuit hydraulique, ainsi qu'une défaillance de pièce connexe peuvent provoquer la chute des bras de levage.
- Tenez-vous à l'écart de cette région lorsque les bras de levage sont en position levée, à moins qu'ils ne soient soutenus par un dispositif de support de bras de levage de type approuvé. Remplacez si endommagé.



ADVERTENCIA (SPANISH)

El movimiento inesperado del cargador, brazo de levantamiento o implementos causado por el contacto de la cabina con las palancas de dirección puede causar lesiones graves o muerte.

ANTES DE LEVANTAR O BAJAR LA CABINA:

- Apague el motor

AVERTISSEMENT (FRENCH)

Tout déplacement intempestif de la chargeuse, du bras de levage ou de l'accessoire causé par le contact de la cabine avec les leviers de direction peut causer des blessures graves, voire mortelles.

AVANT DE SOULEVER OU D'ABAISSE LA CABINE :

- Couper le moteur

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