



Bobcat®

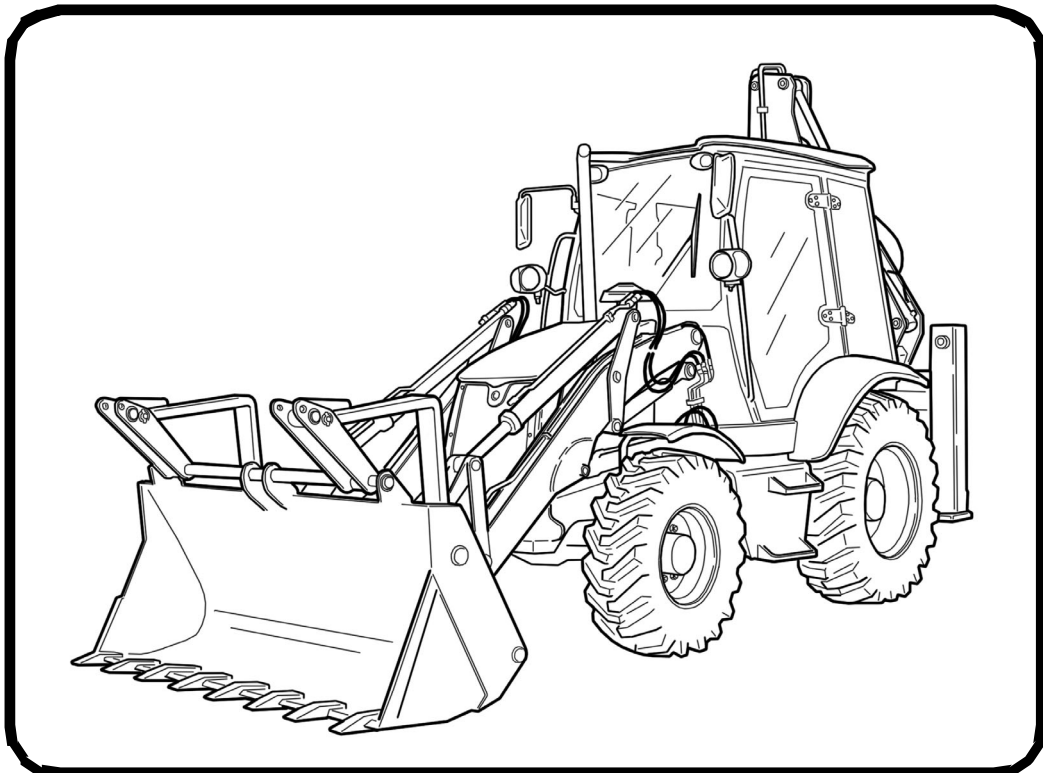
EN

Operation & Maintenance Manual B730, B750, B780 Backhoe Loader

(B730) S/N B45111001 & Above

(B750) S/N B45211001 & Above

(B780) S/N B45311001 & Above



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Fluids, Lubricants And Fuel

The lubricants and fuels described below are those used in the factory and apply to operating conditions in European temperate climate areas. Please consult Bobcat for requirements under other weather conditions.

Prior to refill or draining any equipment of your Bobcat product, read and understand the according lubrication pages described later in this manual.

(*) Source Locally / refer to Supplier Documentation

(**) Packaging Available:

A = 5 L Can

D = 1000 L Tank

B = 25 L Container

E = 400 gr Tube

C = 209 L Drum

ENGINE SYSTEMS					
Machine Components	Fluids And Lubricants	T° Range	Packaging**	Part Number	Volume
Engine	- Bobcat Engine Power SAE 10W30 API CG4 / CH4, ACEA E3 / E5	-20°C / +40°C	A, B, C, D	6987789	8,4 litre
	- Bobcat Engine Power SAE 15W40 API CG4 / CH4, ACEA E3 / E5	-25°C / +30°C	A, B, C, D	6987790	2.2 US gal
Cooling Circuit	- Bobcat EG Coolant Concentrated	-36°C	A, B, C, D	6987803	25 litre
	- Bobcat EG Coolant Premixed	-36°C	A, B, C, D	6987804	6.6 US gal
Fuel Tank	- High-quality diesel fuel that meets EN590 or ASTM D975 with a sulfur content of less than 0.2%	-	-	*	140 litre 37 US gal

HYDRAULIC / HYDROSTATIC									
Machine Components	Fluids And Lubricants Types	T° Range	Packaging**						Volume
				Bobcat	Petronas	PETROL OFISI	SHELL	MOBIL	
Hydraulic Oil Tank	- ISO Viscosity Grade 32	Below 0°C	*	NA	Grade 32 Hyd 46	HD32	TELLUS 32	DTE24	Tank
	- ISO Viscosity Grade 46	0°C / +30°C	*	NA	Grade 46 Hyd 46	HD46	TELLUS 46	DTE25	75 litre
	- ISO Viscosity Grade 68	Above +30°C	*	NA	Grade 68 Hyd 46	HD68	TELLUS 68	DTE26	19.8 US gal
									Hyd System 130 litre 34.3 US gal

TRANSMISSION AND AXLES				
Machine Components	Brand	Specifications	Part Number	Volume
Transmission	- PETROL OFISI - MOBIL - PETRONAS	ATF-DEXTRON II-D ATF-DEXTRON III *** API CD/CE/CF-4/CF/CG-4/CH-4/ CI-4/SF/SG/SH/SJ/SL OR ACEA, CATEGORIES A,B,E VISCOSITY GRADES:SAE 20W-20/30/10W- 30/10W-40/15W-30/ 15W-40/20W-40 BASE OIL API GROUP 1/2/3	- MAXITRAK TMS OIL 500* - MOBIL FLUID 426* - PETRONAS AMBRA MULTI-G 10W30	19,0 litre 5.0 US gal
Front Axle & Reduction Gear	- PETROL OFISI - MOBIL - PETRONAS	API GL4	- MAXIGEAR EP-X 85W-90LS* - MOBIL FLUID 426* - PETRONAS AMBRA W90 LS (B730 / B750) - PETRONAS AMBRA MULTI-G 10W30 (B780)	Models B730 and B750 = 8,0 litre 2.1 US gal Model B780 = 11,5 litre 3 US gal
Rear Axle & Reduction Gear	- PETROL OFISI - MOBIL - PETRONAS	API GL4	- MAXITRAK TMS OIL 500* - MOBIL FLUID 426* - PETRONAS AMBRA MULTI-G 10W30	16 liter 4.2 US gal

*** For Models B730 and B750 Transmission Oil ONLY

BRAKE (FOR B730 S/N B45111001 - B45111554, B750 S/N B45211001 - B451211079, AND B780 S/N B45311001 - B451311061)				
Machine Components	Brand	Specifications	Part Number	Volume
Brake Circuitry	- PETROL OFISI - PETROL OFISI - MOBIL - PETRONAS	API SL / CF ACEA A3/B3/B4	- MAXIMA 10W-40* - ATF II* - ATF 222* - PETRONAS TUTELA GI/A	0,4 litre 0.11 US gal

MECHANICAL SYSTEMS				
Machine Components	Fluids And Lubricants	Dropping Point	Packaging**	Part Number
All Mechanical Systems	- Bobcat Multi-Purpose Grease	From 260°C	E	6987888
	- Bobcat Supreme HD Grease	From 280°C	E	6987889
	- Bobcat Extreme HP Grease	From 260°C	E	6987890

INDEX (CONT'D)

Bobcat Backhoe Loader Specification - B750 (Cont'd)

Loader

Shovel capacity	1,1 m ³ (1.4 y ³)
Breakout force - lift	56,1 kN (12612 lbf)
Breakout force shovel maximum	81,6 kN (18344 lbf)
Bucket width	2280 mm (89.76 in)
Lift height to hinge pin	3670 mm (144.49 in)
Tipping Capacity (ISO 14397-1)	7212 kg (15900 lb)
ROC - GP Bucket (ISO 14397-2)	3606 kg (7950 lb)
ROC - MP Bucket (ISO 14397-2)	2951 kg (6506 lb)
Lift Capacity to Maximum Height - MP Bucket (ISO 14397-2)	3178 kg (7006 lb)

Backhoe

Maximum bucket breakout	59,1 kN (13277 lbf)
Arm breakout force	
Retracted	31,8 kN (7140 lbf)
Extended (with optional extendable arm)	22,40 kN (5036 lbf)
Bucket capacity	0,2 m ³ (0.26 y ³)
Bucket width	600 mm (23.62 in)

Cab / Canopy

Cab	ROPS (ISO 3471) and FOPS (ISO 3449 Level II) type tinted safety glass giving total visibility, full opening rear-side windows, front and rear windshield wipers, fully adjustable front/rear and up/down seat, Fresh air heater/blower, full heat control
Canopy	ROPS (ISO 3471) and FOPS (ISO 3449 Level II), fully adjustable front/rear and up/down seat.

Steering

Steering type	2 wheel steer hydrostatic
Power steering	Hydrostatic
Turning circle - outer front tyre clearance	12,170 mm (39.9 ft)
Turning circle - outer bucket clearance	14,600 mm (47.9 ft)

Capacities

	MAXIMUM CAPACITY	SERVICE CAPACITY
Engine oil (with filters)	8.4 l (8.9 qt)	8.0 l (8.5 qt)
Cooling system	25,0 l (6.6 U.S. gal)	25,0 l (6.6 U.S. gal)
Fuel tank	140,0 l (37 U.S. gal)	140,0 l (37 U.S. gal)
Hydraulic tank	75,0 l (19.8 U.S. gal)	90,0 l (23.8 U.S. gal)
Hydraulic system	130,0 l (34.3 U.S. gal)	130,0 l (34.3 U.S. gal)
Transmission	19,0 l (5.0 U.S. gal)	14,0 - 16 l (3.7 - 4.2 U.S. gal)
Axle oil		
Front	8,0 l (8.5 qt)	5,5 l (5.8 qt)
Rear	16,0 l (4.2 U.S. gal)	9,0 l (2.4 U.S. gal)
Brake oil (B750 S/N B45211001 - B451211079)	0,4 l (0.42 qt)	0,4 l (0.42 qt)

Weights

Operating Weight	8000 kg (17637 lb)
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SAFETY INSTRUCTION

The information given in this manual provides safe operation and maintenance of the machine and should be fully understood in order to prevent serious injury or death while working with the machine. Don't forget that your safety and the people around you depends on you. Therefore to develop your skill for the correct operation, inspection, lubrication and maintenance:

- You should read this manual carefully and familiarise yourself with the position of controls and of the operations that their movement causes. If you do not understand, you should consult your Bobcat dealer.
- You should understand the warnings and operating procedures used in this manual and on the machine.
- You should understand the capabilities and limitations of the machine.

In this manual safety signs are classified according to the relative seriousness of the hazard situation by the use of the signal word. Two signal words are used: DANGER and WARNING. The signal word alerts you to the existence and relative seriousness of a hazard and it is essential that you understand these signal words fully.



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.



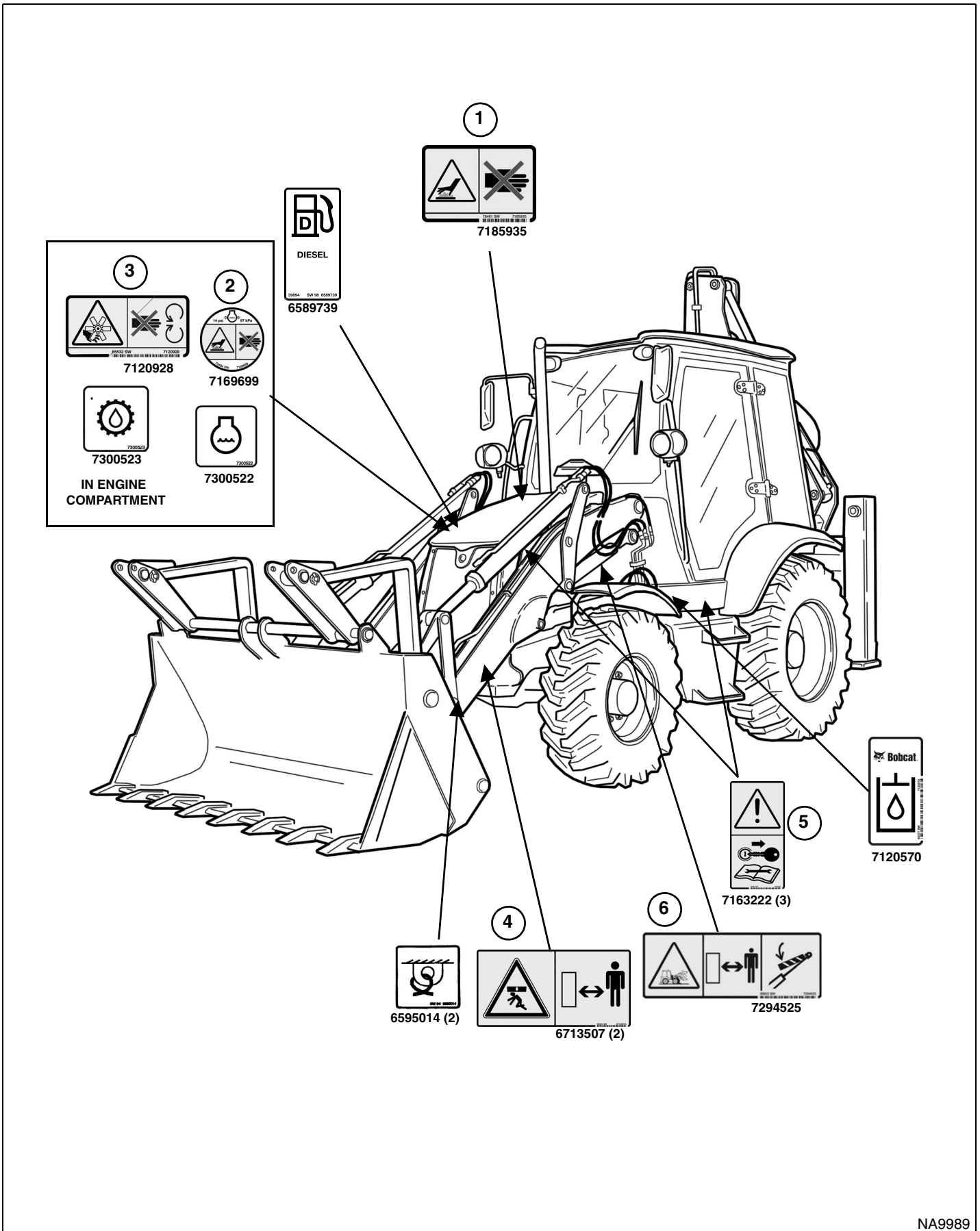
WARNING: The signal word WARNING on the machine and in the manuals indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.

In addition to these instructions you must follow the safety regulations applicable to your work environment and job site and any federal, state and local safety requirements.

Keep this Operation & Maintenance Manual in good condition and store it in the storage compartment located on the back of the operator's seat.

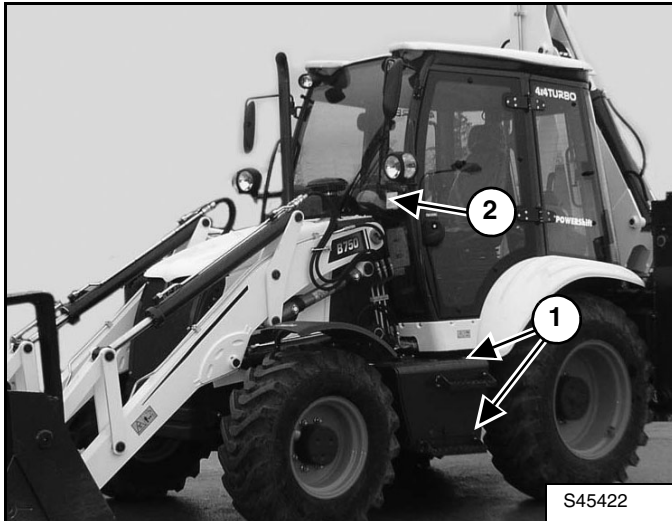
MACHINE SIGNS (DECALS)

Follow the instructions on all the Machine Signs (Decals) that are on the backhoe loader. Replace any damaged machine signs and be sure they are in the correct locations. Machine signs are available from your Bobcat backhoe loader dealer.



CONTROLS AND INSTRUMENTATION

Steps And Handles



Use only the steps (1) and the grab handles (2) while climbing on and off the backhoe loader.



WARNING: Never jump off the backhoe loader. While climbing on or off the backhoe loader, use both hands for support and face the machine. And never use the steering and levers for support.



WARNING: Always keep the steps and the handles free of dirt, snow and ice.

Cab Doors



To open the doors use handle (1) from the outside and handle (2) from the inside.



Partial opening of the door is possible for ventilation of the cab.

NOTE: Left door is used for climbing on or off the backhoe loader and the right door is used for emergency.



WARNING: Before travelling and operating, close the doors correctly.

CONTROLS AND INSTRUMENTATION (CONT'D)

Front Control Panel (Cont'd)

FRONT DRIVE AXLE ENGAGEMENT SWITCH

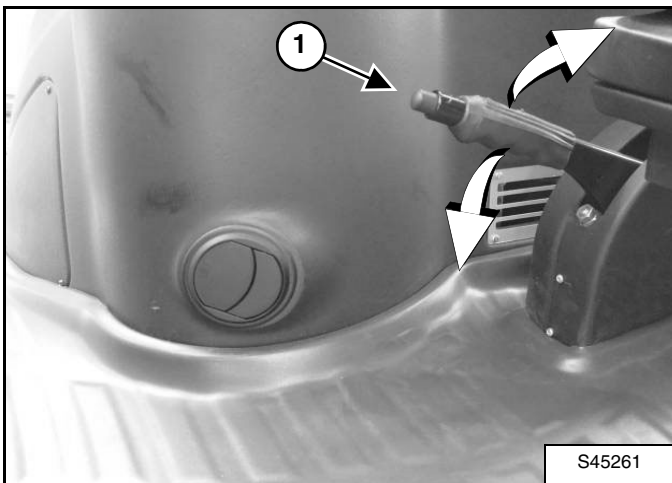


Before pressing the switch, only the rear axle is engaged. After pressing the switch, the front drive axle is engaged, too. And the lamp on the control panel lights up.



WARNING: Do not use the third or fourth gear and do not work on hard ground when the front drive axle is engaged.

PARKING BRAKE LEVER



It is placed at the left of the operator's seat. It is used for parking the machine safely. By pulling the lever upwards, it is engaged and the lamp on the front control panel lights up. Press the button (1) on the end of the lever and push the lever down to disengage.



WARNING: Engage the parking brake lever before working with the backhoe attachment controls.

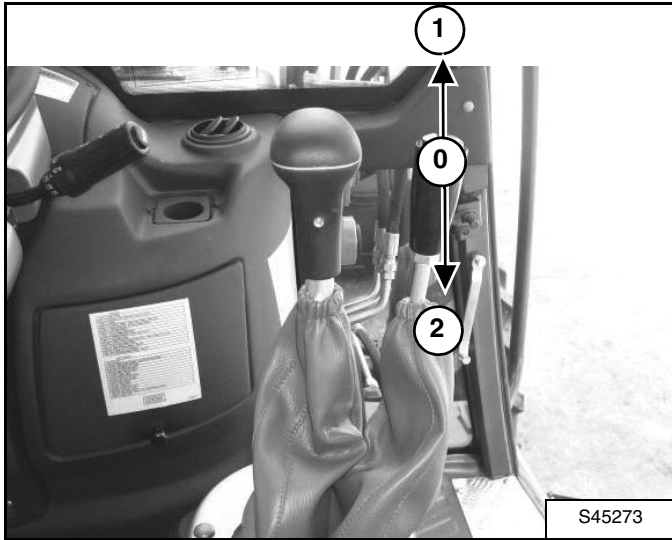


WARNING: Make sure that the lever is engaged before stopping or starting the engine.

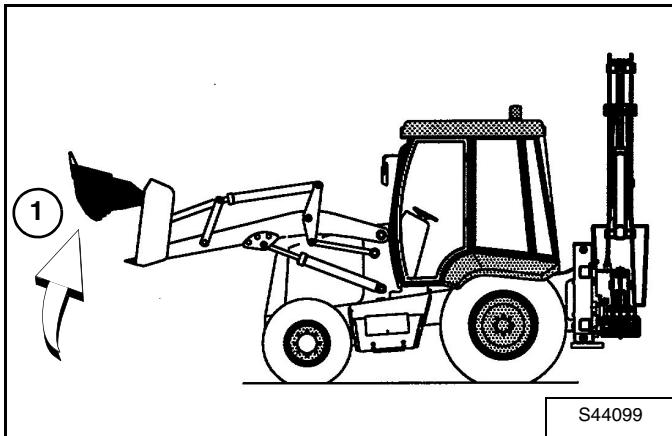
CONTROLS AND INSTRUMENTATION (CONT'D)

Loader Attachment Controls (For Model B730) (Cont'd)

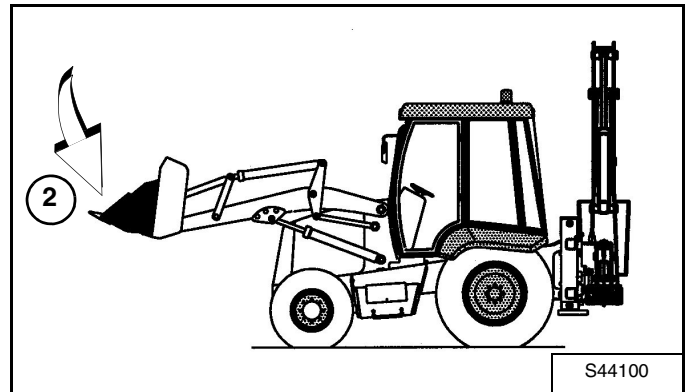
Combination Bucket Lever



Position (0): When the lever is released, it automatically returns to NEUTRAL position and the movement of combination bucket stops.



Position (1): When the lever is pushed forward, the combination bucket is opened.



Position (2): When the lever is moved back, the combination bucket is closed.

CONTROLS AND INSTRUMENTATION (CONT'D)

Backhoe Attachment Controls (For Model B780)


The backhoe control levers (joysticks) are locked when the start key is in the OFF position. When the start key is turned to the ON position, the levers are unlocked and are fully functional. Lower the backhoe fully (or lock into the transport position) before turning the key to the OFF position.


The backhoe equipment (boom, arm, bucket, and boom swing) is operated by using the left and right control levers (joysticks).


The left and right joystick handles have a button on the front side of the handle.

Press the left handle button (1) to sound the horn.

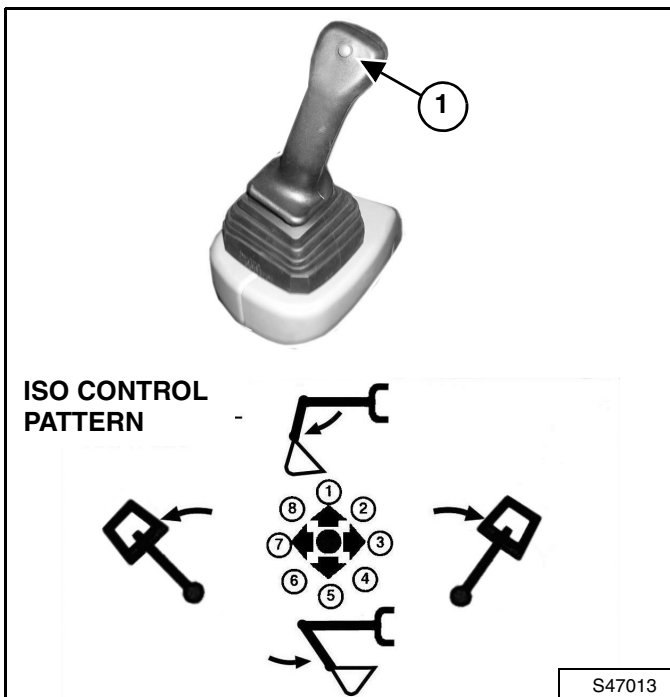
Press the right handle button (2) to activate the pump unload function which allows more precise movements of the hydraulic functions. Release the button (2) to resume full hydraulic flow.

 **WARNING:** Bring all operating levers in NEUTRAL position and engaged the parking brake before working with the backhoe attachment controls.

 **WARNING:** Adjust the operator's seat in backhoe attachment position. Be certain that all controls can be reached comfortably.

 **WARNING:** Before operating the backhoe attachment controls, lower the stabilisers to the ground.

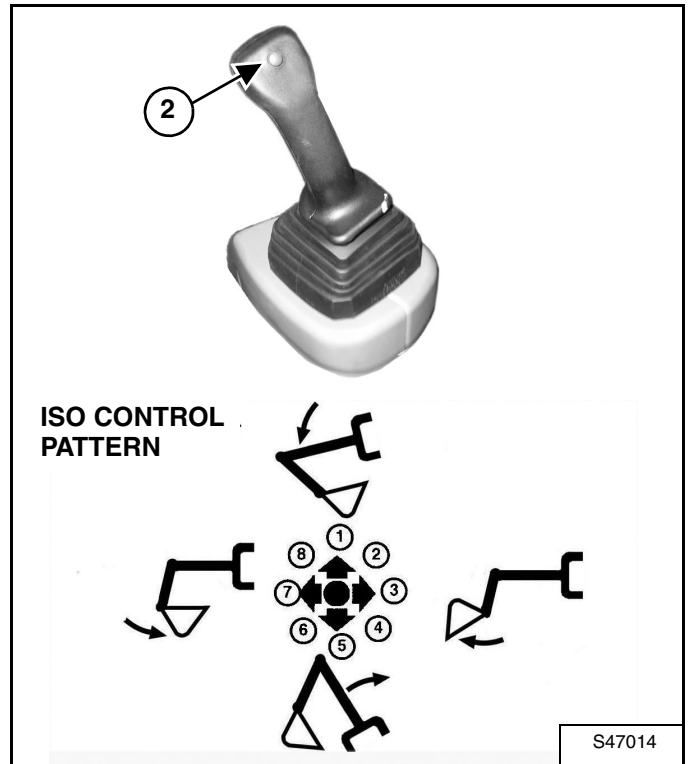
Left Control Lever (Joystick)



The left lever (joystick) is used to operate the arm and boom swing.

1. Arm out.
2. Arm out and swing right.
3. Slew right.
4. Arm in and swing right.
5. Arm in.
6. Arm in and swing left.
7. Slew left.
8. Arm out and swing left.

Right Control Lever (Joystick)



The right lever (joystick) is used to operate the boom and bucket.

1. Boom lower.
2. Boom lower and bucket dump.
3. Bucket dump.
4. Boom raise and bucket dump.
5. Boom raise.
6. Boom raise and bucket curl.
7. Bucket curl.
8. Boom lower and bucket curl.



- WARNING:** Before leaving the machine:
1. Park the loader on firm level ground.
 2. Lower the work equipment to the ground.
 3. Engage the parking brake.
 4. Place all controls in neutral.
 5. Stop the engine and remove the key.

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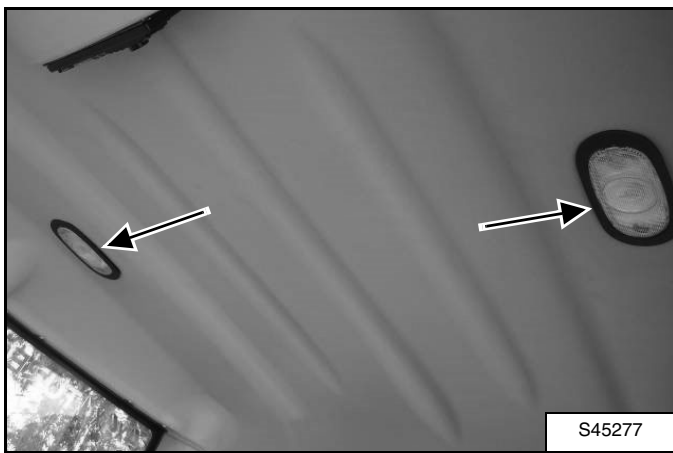
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ACCESSORIES

Sun Visor



Cab Interior Light



This light is used to illuminate inside of the cab.

Beacon Lamp



Rear View Mirrors



Adjust mirrors before driving the machine.

Battery Master Switch



Insert battery switch to connect the circuit. Remove battery switch before carrying out any maintenance work or after each working day.

OPERATING PROCEDURES (CONT'D)

Installing And Removing The Backhoe Attachment

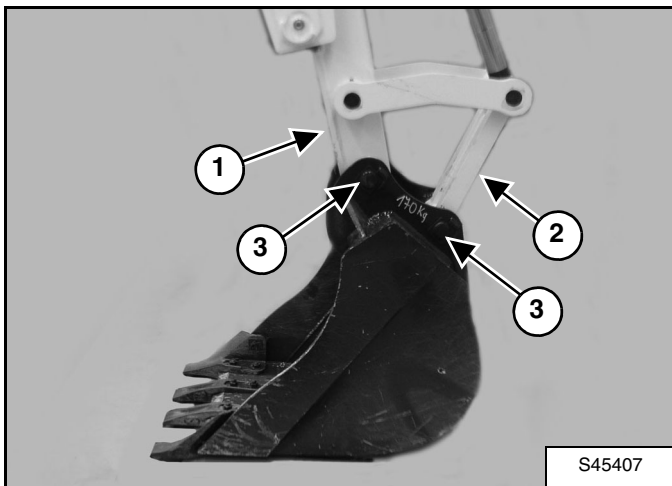
Installation



AVOID INJURY OR DEATH

Stop the machine on a firm flat surface. When removing or installing attachments (such as a bucket), always have a second person in the operator's seat, give clear signals and work carefully.

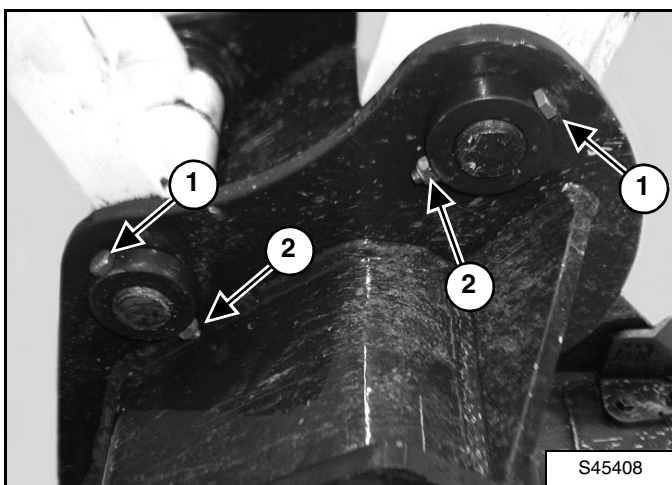
W-2140-0189



Install the arm into the bucket and align the mounting hole.

Install the pin (3).

Install the link (2) in the bucket and align the mounting hole. Install the pin (3)



Install the two retainer bolts (1) and nuts (2) and tighten.

Removal

Park the backhoe loader on a flat surface and lower the bucket fully.

Remove the two nuts (2) and two bolts (1).

Remove the pins (3).



AVOID INJURY OR DEATH

Never use attachments or buckets which are not approved by Bobcat Company. Buckets and attachments for safe loads of specified densities are approved for each model. Unapproved attachments can cause injury or death.

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LUBRICATION

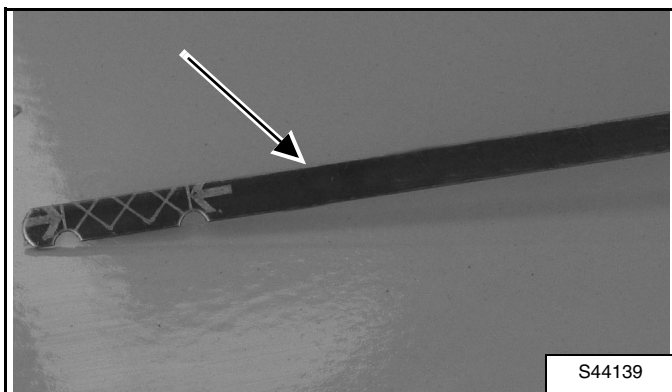
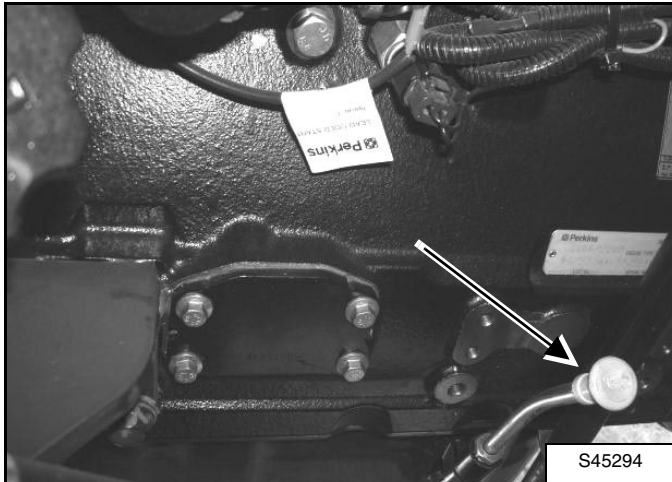
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LUBRICATION (CONT'D)

Diesel Engine

See Lubrication Chart and Capacities for service times and quantities. (See Fluids, Lubricants And Fuel on Page 9.) For model B730 (See Capacities on Page 15.), for model B750 (See Capacities on Page 19.) and for model B780 (See Capacities on Page 23.).

Checking The Engine Oil Level



Park the machine on firm, level ground to check the engine oil level.

Lift the loader attachment, install the approved lift arm support device and engage the parking brake.

Turn the engine off and wait a few minutes for the oil to collect in the oil pan. Open the engine bonnet.

The oil should not exceed the upper mark on the dipstick. If the oil level is below the mark, remove the filler cap and add oil up to mark on the dipstick.

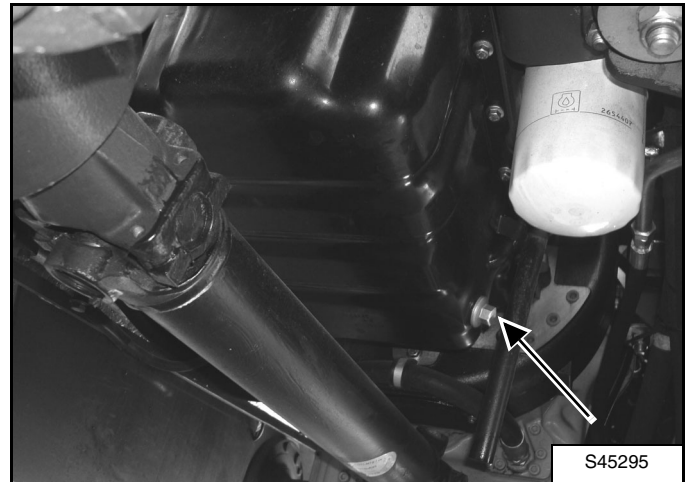


WARNING: The engine oil is very hot at or near operating temperature. Avoid contact with hot oil and components containing oil, since it could cause severe burns.

Draining The Engine Oil

Maintenance Tools: combination wrench 16 mm

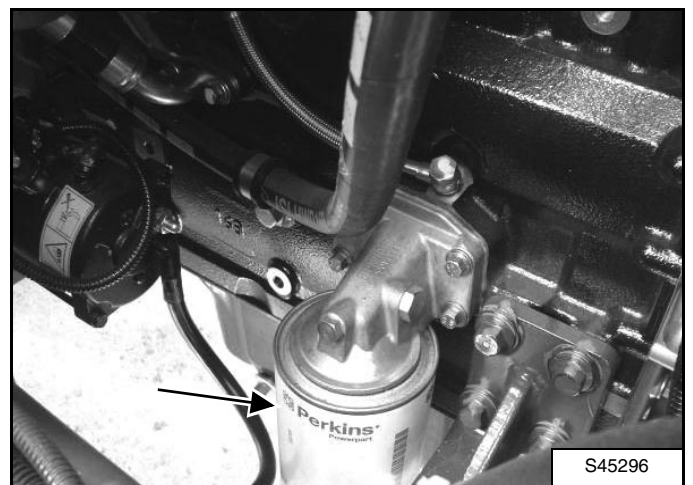
To change the oil, bring the engine to operating temperature.



Place an appropriate container under the drain plug, remove the drain plug and drain the used oil into the container.

Replace The Oil Filter Element

Maintenance Tools: filter wrench



Remove the filter element by using the filter wrench. Clean the sealing surface on the filter mount. Grease the new filter sealing surface and place the new filter in the filter housing.



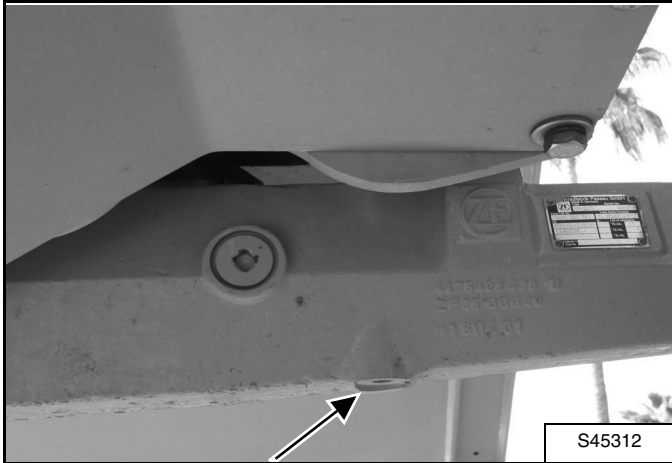
WARNING: Don't use the filter wrench to place the new filter.

Lightly lubricate the seal with oil and tighten the filter element using both hands.

LUBRICATION (CONT'D)

To Drain Oil

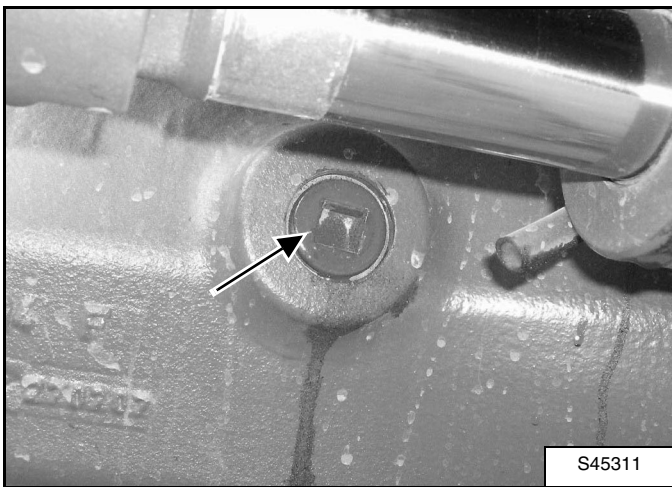
Maintenance Tools: 12,5 mm (1/2 in) square drive wrench.



Place an appropriate container under the drain plug and clean the surface area around the drain plug. Remove the drain plug and drain the used oil into the container. Install the drain plug.

To Add Oil

Maintenance Tools: 12,5 mm (1/2 in) square drive wrench.



Clean the surface area around the fill plug. Remove the fill plug.

Add oil until the oil is level with the orifice. Install the plug.

Reduction Gears

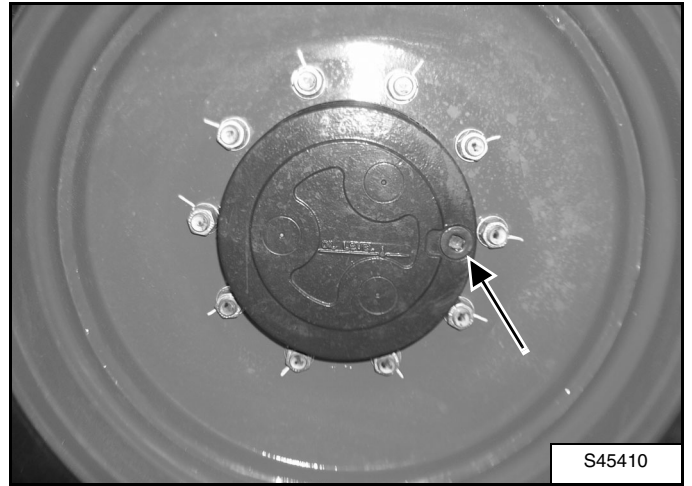
See Lubrication Chart for oil quality and oil quantities.

When checking the oil level or adding oil,

- Park the machine on level ground.
- Lower the attachments flat on the ground.
- Place all controls in neutral.
- Engage the parking brake.
- Turn the engine off and exit the machine

To Check Reduction Gear Oil Level

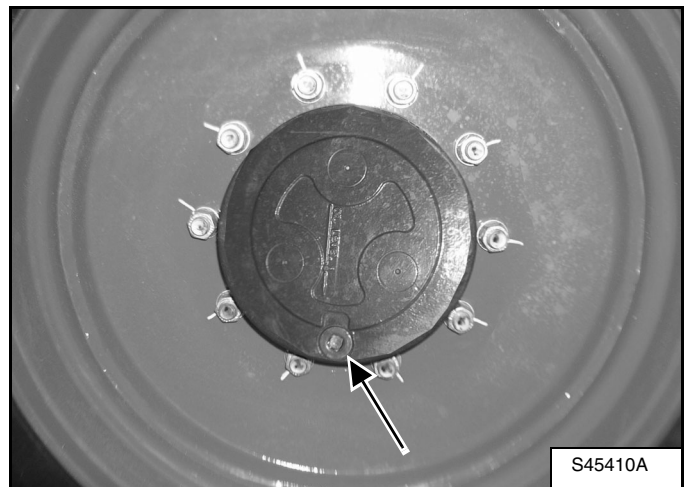
Maintenance Tools: extension bar 12,5 square drive



- Park the machine that the level mark on the wheel is parallel to the ground. Remove the plug and check that the oil is level with the orifice. If necessary, fill up. Install the plug.


To Drain Reduction Gear Oil

Maintenance Tools: 12,5 mm (1/2 in) square drive wrench.



Park the machine that the level mark on the wheel is the lowest position. Place an appropriate container under the plug, remove the plug and drain the used oil into the container. Install the plug.

MAINTENANCE SAFETY




WARNING

Instructions are necessary before operating or servicing machine. Read and understand the Operation & Maintenance Manual 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.


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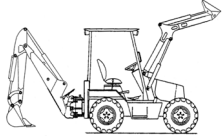
 **Safety Alert Symbol:** This symbol with a warning statement, means: "Warning, be alert! Your safety is involved!" Carefully read the message that follows.



CORRECT


B-10731a


 Never service the Bobcat Backhoe Loader without instructions.




CORRECT

B-16768


 Always use an approved lift arm support device when servicing the backhoe loader with the lift arms raised. Replace the lift arm support device if damaged or missing.


 Disconnecting or loosening any hydraulic tubeline, hose, fitting component, or part failure can cause lift arms or backhoe boom to drop.




CORRECT

B-16738


 Cleaning and maintenance are required daily.


 NEVER modify equipment or add attachments not approved by Bobcat.




WRONG

B-16730


 Have good ventilation when welding or grinding painted parts.


 Wear dust mask when grinding painted parts. Toxic dust and gas can be produced.




WRONG

B-16746


 Vent exhaust to outside when engine must be run for service.


 Exhaust system must be tightly sealed. Exhaust Fumes can kill without warning.




WRONG

B-16719


 Never work on backhoe loader with lift arms raised unless supported by an approved lift arm support device.


 Never perform any maintenance unless the backhoe is locked in transport position or the backhoe is lowered to the ground.





WRONG


B-16571

 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-16731

 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 closed except for service. Close and latch engine cover before operating the backhoe loader.




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**.

MSW46-EN-0116

MAINTENANCE AND ADJUSTMENTS (CONT'D)

Engine Valve Clearance

Maintenance Instruction

Checking of the engine valve clearance.....every 2000 hours.

See your Bobcat dealer for service.

ROPS / FOPS Cab

Maintenance Instruction

Checking of ROPS / FOPS..... every 250 hours.

The cab of the machine is equipped with protective structure in conformance with ROPS (ISO 3741) and FOPS (ISO 3449 Level II):

Check if there is any rust or holes in the cab or cab components. Make sure the cab mounting bolts are tight.

Check the tightness of operator's seat and seat belt mounting bolts. Tighten if necessary.



DANGER: Do not modify or remove the ROPS/ FOPS cab in any manner. Unauthorized modification, such as welding, drilling, cutting and adding attachments, as well as any damage resulting from collisions or the machine rolling over could weaken the structure and reduce the protection.



Operating the machine without ROPS/FOPS cab can cause serious injury or death when the machine rolls over. Replace the ROPS/FOPS cab if subjected to roll over or damage. Do not attempt to repair it.

Replacing A Backhoe And Loader Bucket Tooth

Maintenance Instruction

Checking of torque..... every 8 hours or everyday.

The bolt of bucket teeth.....205 N•m (150 ft-lb)

Maintenance Tools: combination wrench 22 mm, socket wrench 22 mm, ratchet handle 12.5 square drive, torque wrench.



Check the bucket teeth regularly for wear. Greater force is needed to dig if bucket teeth are worn. Never work with a missing bucket tooth.

Remove the mounting bolts, remove the tooth. Replace a new tooth and install mounting bolts. Tighten the bolts for the correct torque 205 N•m.

Transmission

Maintenance Instruction

Checking of torque..... every 250 hours

Check the tightness of the transmission mounting bolts for the correct torque value.

MAINTENANCE AND ADJUSTMENTS (CONT'D)

Machine Cleaning

Maintenance Instruction

Checking and cleaning of the machine.....every 1500 hours.



WARNING: Before cleaning the machine with water or steam (high pressure cleaning) or other cleaning fluids, make sure that all openings, which, for safety and/ or functioning reasons should not be exposed to water / steam/ cleaners, are covered and / or masked off. Especially sensitive are electrical motors, control boxes and plug connectors.



WARNING: Remove all coverings and masking material after completing the cleaning procedure. Then check all fuel lines, engine oil lines and hydraulic oil lines for leaks, loose connections, chafing and / or damage. Fix any problems immediately.

If you use a high pressure cleaner with steam or hot water to clean the machine, observe following recommendations:

- the distance between the nozzle and the surface to be cleaned must be no lower than 50 cm (20 inches)
- the water temperature should not exceed 60°C (140°F)
- limit the water pressure to 80 bar maximum (1160 psi)
- if you employ cleaning fluid, only use neutral cleaning agents such as customary car shampoos diluted to 2 or 3 percent maximum

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