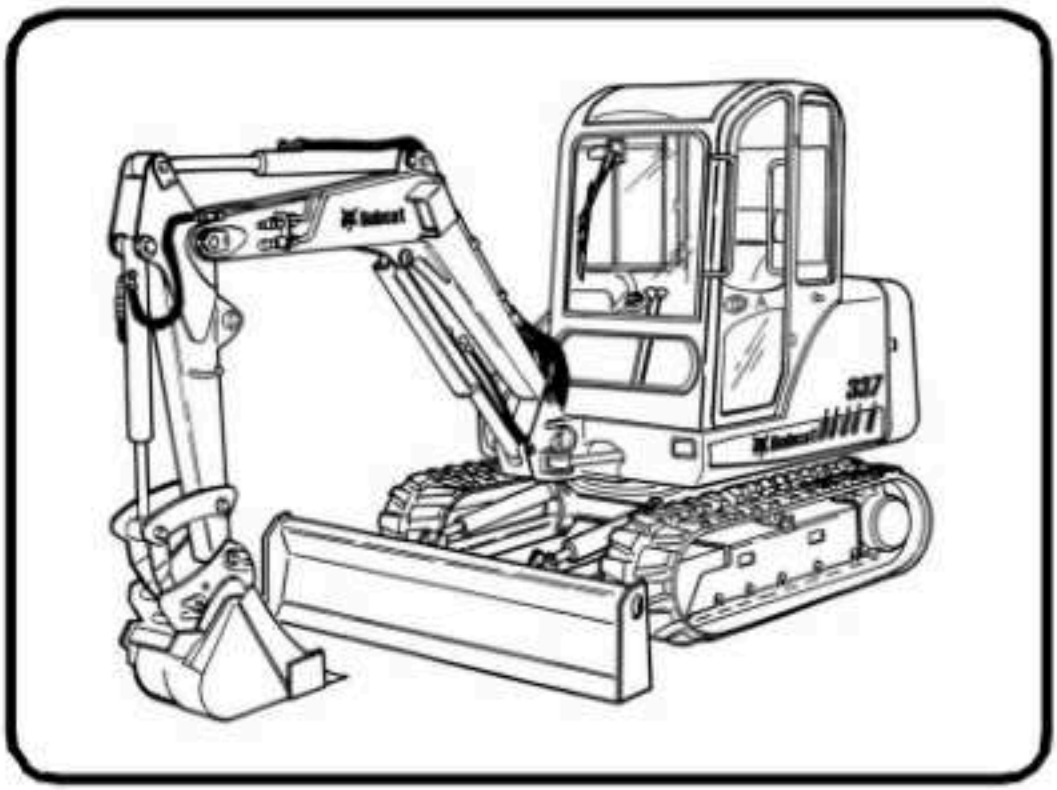
Bobcat

Operation & Maintenance Manual
337/341 Compact Excavator

337 - S/N AAC811001 & Above
337 - S/N A9W711001 & Above
341 - S/N A9W911001 & Above



6986745 (12-07) Revised (5-08) (1)

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REFERENCE INFORMATION

Write the correct information for YOUR excavator in the spaces below. Always use these numbers when referring to your Bobcat Excavator.

Bobcat Excavator Serial Number _____

Engine Serial Number _____

_____

_____

NOTES _____

_____

_____

_____

YOUR BOBCAT EXCAVATOR DEALER:

_____

ADDRESS:

_____

PHONE:

_____

Bobcat Company
P.O. Box 128
Gwinner, ND 58040-0128

Bobcat Company Europe
Drève Richelle 167
B-1410 WATERLOO
Belgium

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FOREWORD

This Operation & Maintenance Manual was written to give the owner/operator instructions on the safe operation and maintenance of the Bobcat Excavator. READ AND UNDERSTAND THIS OPERATION & MAINTENANCE MANUAL BEFORE OPERATING YOUR EXCAVATOR. If you have any questions, see your Bobcat dealer.

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BOBCAT COMPANY IS ISO 9001:2000 CERTIFIED

ISO 9001:2000 is an international standard that controls the processes and procedures which we use to design, develop, manufacture and distribute Bobcat products.

British Standards Institute (**BSI**) is the Certified Registrar Bobcat Company chose to assess the Company's compliance with the ISO 9001:2000 standard. The BSI registration certifies that the two Bobcat manufacturing plants and the Bobcat corporate offices (Gwinner, Bismarck & West Fargo) in North Dakota are in compliance with ISO 9001:2000. Only certified assessors, like BSI, can grant registrations.

ISO 9001:2000 means that as a company we say what we do and do what we say. In other words, we have established procedures and policies, and we provide evidence that the procedures and policies are followed.

CALIFORNIA
PROPOSITION 65 WARNING

Diesel engine exhaust and some of its constituents are known to the State of California to cause cancer, birth defects and other reproductive harm.

REGULAR MAINTENANCE ITEMS

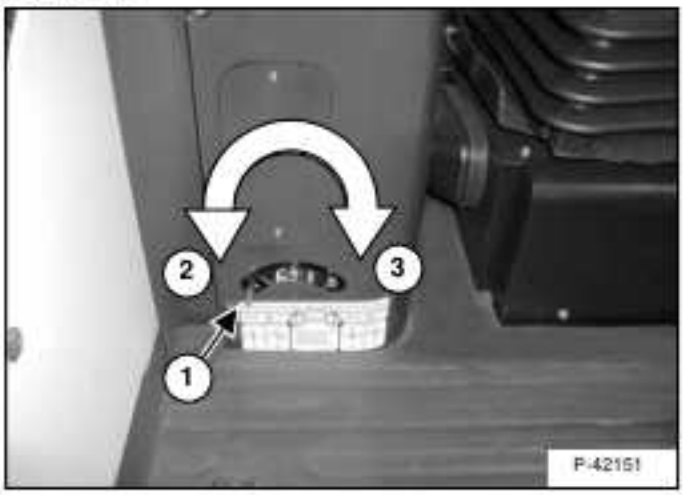
	ENGINE OIL FILTER (6 Pack) 6675517		BATTERY 6673865
	FUEL FILTER 6667362 FUEL FILTER, inline 6633977		FLUID, Hydraulic / Hydrostatic 6903117 - (2.5 Gal.) 6903118 - (5 Gal.) 6903119 - (55 Gal.)
	AIR FILTER, Outer 6666333		RADIATOR CAP 6682274
	AIR FILTER, Inner 6666334		PROPYLENE GLYCOL ANTI-FREEZE, Premixed [-34° F (-37°C)] 6724094
	PRIMARY HYDRAULIC FILTER 6668819 CASE DRAIN HYDRAULIC FILTER 6681012 FAN CASE DRAIN HYDRAULIC FILTER 6681012		PROPYLENE GLYCOL ANTI-FREEZE, Concentrate 6724354
MOTOR OIL 6903105 . . . . SAE 15W/40 CE/SG (12 qt.) 6903106 . . . . SAE 15W/40 CE/SG (1 Gal.) 6903113 . . . . . SAE 15W/40 CE/SG (2.5 Gal.) 6903107 . . . . SAE 10W/30 CE/SG (12 qt.) 6903108 . . . . SAE 10W/30 CE/SG (1 Gal.) 6903112 . . . . . SAE 10W/30 CE/SG (2.5 Gal.)		6903109 . . . . . SAE 30W CE/SG (12 qt.) 6903110 . . . . . SAE 30W CE/SG (1 Gal.) 6903111 . . . . . SAE 30W CE/SG (2.5 Gal.)	

NOTE: Always verify Part Numbers with your Bobcat dealer.

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STD / ISO Selector Valve

Figure OI-5



The joystick hydraulic function can be switched from Standard control pattern to ISO control pattern **[Figure OI-5]**.

Move the lever (Item 1) to the right (Item 2) to select STANDARD Control Pattern. Move to the left (Item 3) to select ISO Control Pattern **[Figure OI-5]**.

Upperstructure Slew Brake

There is not a mechanical upperstructure slew lock to engage or disengage. This Excavator is equipped with an automatically applied slew brake integrated into the slew motor.

When the upperstructure slew circuit is engaged, hydraulic pressure unlocks the slew motor.

When the upperstructure slew circuit is disengaged, spring pressure applies the internal slew motor brake.

Raising And Lowering The Console

Raise the console before exiting the cab.

Figure OI-6



Pull up on the release handle **[Figure OI-6]**. The lift spring will assist in raising the console.

Lower the console before operating the excavator.

Push down on the console **[Figure OI-6]** until the latch is engaged.

NOTE: When the console is raised, the hydraulic and traction system functions are locked and will not operate.

If the engine stops, the boom/bucket (attachments) can be lowered to the ground using hydraulic pressure in the accumulator.

The control console must be in the locked down position, and the key switch in the ON position.

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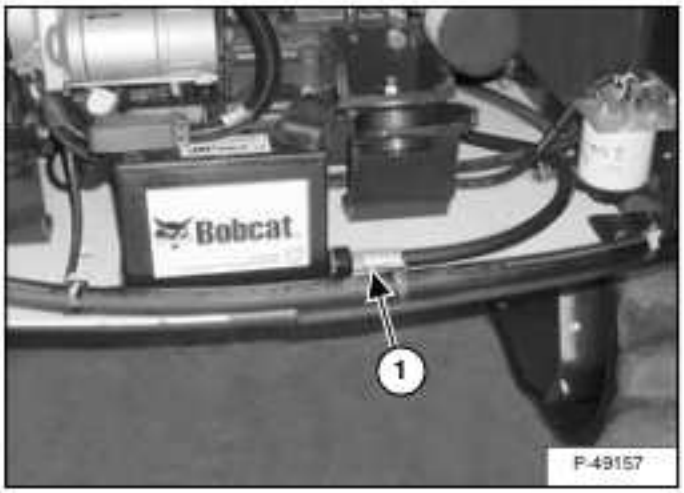
Removing And Replacing Oil And Filter

See the SERVICE SCHEDULE for the service interval for replacing the engine oil and filter. (See SERVICE SCHEDULE on Page PM-5.)

Run the engine until it is at operating temperature. Stop the engine.

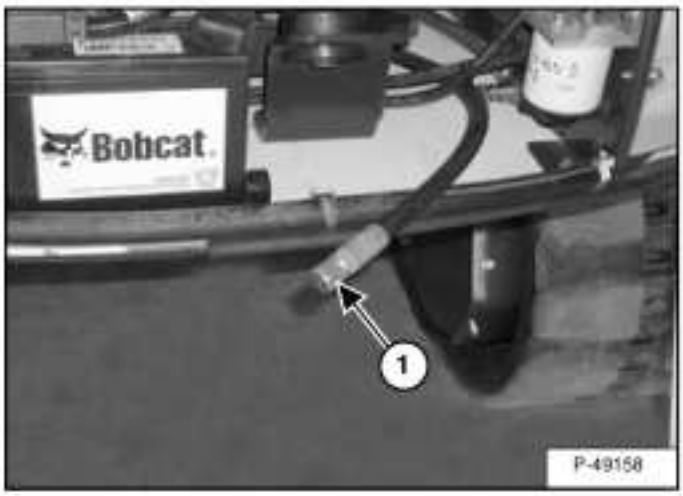
Open the tailgate.

Figure PM-161



Remove the drain hose (Item 1) **[Figure PM-161]** from the storage position.

Figure PM-162



Remove the cap (Item 1) **[Figure PM-162]** from the drain hose. Drain the oil into a container.

Recycle or dispose of used oil in an environmentally safe manner.

Figure PM-163

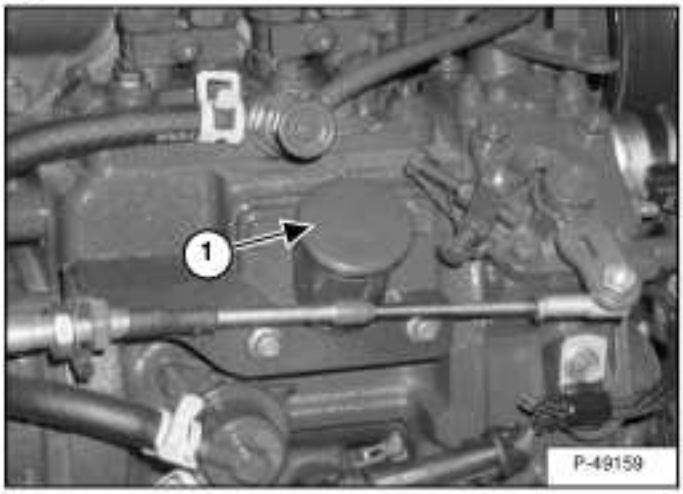


Remove the oil filter (Item 1) **[Figure PM-163]** and clean the filter housing surface.

Use a genuine Bobcat replacement filter. Put clean oil on the filter gasket. Install the filter and hand tighten.

Install and tighten the oil cap (Item 1) **[Figure PM-162]**.

Figure PM-164



Remove the fill cap (Item 1) **[Figure PM-164]**.

Put the correct amount of oil in the engine. (See Capacities on Page SPEC-10.)

Install the fill cap.

Start the engine and let it run for several minutes.

Stop the engine. Check for leaks at the oil filter. Check the oil level.

Add oil as needed if it is not at the top mark on the dipstick.

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Performance

	S/N AAC811001 & ABOVE	S/N A9W711001 & ABOVE	S/N A9W911001 & ABOVE
Operating weight w/ canopy, rubber tracks and 24 in. (609 mm) bucket	11086 lb. (5028 kg)	10963 lb. (4972 kg)	11545 lb. (5236 kg)
Operating weight w/ canopy, rubber tracks and 24 in. (609 mm) bucket and equipped with long arm option or kit	11668 lb. (5292 kg)	11545 lb. (5236 kg)	N/A
Steel tracks add 74 lb. (33 kg) Cab w/heater add 263 lb. (119 kg) Cab w/HVAC add 311 lb. (141 kg) W/Angle Blade add 263 lb. (120 kg)	Add the following weights to the above, if equipped with any of these options.		
Travel Speed	Low Range 1.80 mph (2,90 km/hr.) High Range 3.00 mph (4,83 km/hr.)		
Digging Force (per ISO 6015) Arm (Standard) Arm (Long Arm Option) Bucket	 6697 lbf. (29790 N) 5305 lbf. (23598 N) 9267 lbf. (41223 N)	 6697 lbf. (29790 N) 5305 lbf. (23598 N) 9267 lbf. (41223 N)	 5305 lbf. (23598 N) (N/A) 9267 lbf. (41223 N)
Boom Swing (Offset)	Left 75° Right 51°		

Controls

Steering	Two hand levers or foot pedals.
Hydraulics	Two hand operated levers (joysticks) control boom, bucket, arm and upperstructure slew
Auxiliary Hydraulics	Electric switch in right joystick
Auxiliary Pressure Release	Electric switch in right joystick
Engine	Hand Lever engine speed, key type start switch
Starting Aid	Glow Plugs - activated by key switch
Brakes Travel Service & Parking Swing Service Holding	 Hydraulic lock in motor circuit Automatically applied slew brake integrated in slew motor Automatically applied slew brake integrated in slew motor

Engine

Make/Model	Kubota V2403-M-DI-TE3B-BC-3
Fuel/Cooling	Diesel/Liquid (Antifreeze mixture)
Horsepower (SAE Net)	47.5 HP (35.4 Kw)
Torque	132.4 ft.-lb. (179,5 N•m)
Number Of Cylinders	4
Displacement	148.5 ci (2.43 L)
Bore / Stroke	3.43 x 4.03 in. (87,1 x 102,3 mm)
Lubrication	Pressure System with Filter
Crankcase Ventilation	Closed Breather
Air Cleaner	Dual dry replaceable paper cartridges
Ignition	Diesel Compression
Low Idle	1220 RPM
High Idle	2470 RPM
Engine Coolant	Propylene Glycol / water mixture (53% PG / 47% water)

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Safe Operation Is The Operator's Responsibility

Safety Alert Symbol

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

WARNING

Operator must have instructions before running the machine. Untrained operators can cause injury or death.

W-2001-1285

IMPORTANT

This notice identifies procedures which must be followed to avoid damage to the machine.

I-2019-0284

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.

D-1002-1107

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.

W-2044-1107

The Bobcat excavator and attachment must be in good operating condition before use.

Check all of the items on the Bobcat Service Schedule Decal under the 8-10 hour column or as shown in the Operation & Maintenance Manual.

Safe Operation Needs A Qualified Operator

For an operator to be qualified, he or she must not use drugs or alcoholic drinks which impair alertness or coordination while working. An operator who is taking prescription drugs must get medical advice to determine if he or she can safely operate a machine.

A Qualified Operator Must Do The Following:

Understand the Written Instructions, Rules and Regulations

- The written instructions from Bobcat Company include the Delivery Report, Operation & Maintenance Manual, Operator's Handbook, Safety Manual and machine signs (decals).
- Check the rules and regulations at your location. The rules may include an employer's work safety requirements. Regulations may apply to local driving requirements or use of a Slow Moving Vehicle (SMV) emblem. Regulations may identify a hazard such as a utility line.

Have Training with Actual Operation

- Operator training must consist of a demonstration and verbal instruction. This training is given by your Bobcat dealer before the product is delivered.
- The new operator must start in an area without bystanders and use all the controls until he or she can operate the machine and attachment safely under all conditions of the work area. Always fasten seat belt before operating.
- Operator Training Courses are available from your Bobcat dealer in English and Spanish. They provide information for safe and efficient equipment operation. Safety videos are also available.
- Service Safety Training Courses are available from your Bobcat dealer. They provide information for safe and correct service procedures.

Know the Work Conditions

- Know the weight of the materials being handled. Avoid exceeding the Rated Lift Capacity of the machine. Material which is very dense will be heavier than the same volume of less dense material. Reduce the size of load if handling dense material.
- The operator must know any prohibited uses or work areas, for example, he or she needs to know about excessive slopes.
- Know the location of any underground lines. Call local utilities or the TOLL FREE phone number found in the *Before Operation* Section of this manual.
- Wear tight fitting clothing. Always wear safety glasses when doing maintenance or service. Safety glasses, respiratory equipment, hearing protection or Special Applications Kits are required for some work. See your Bobcat dealer about Bobcat Safety Equipment for your model.

SI EXC-0208

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