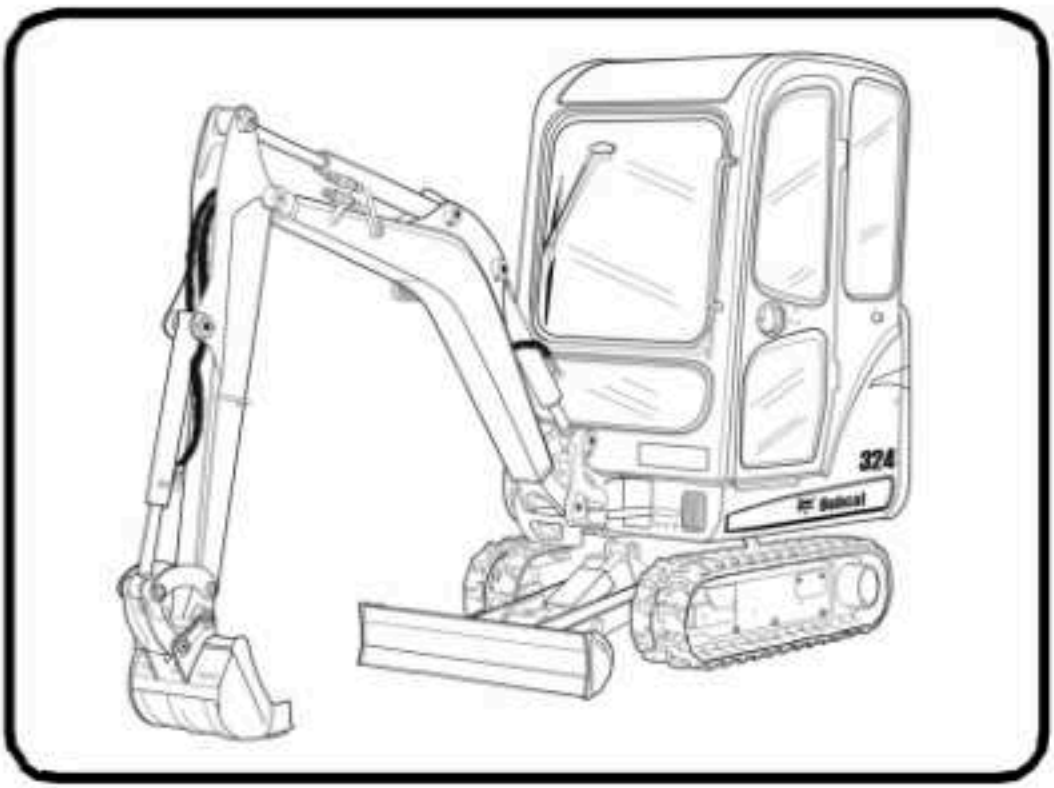
Bobcat

Operation & Maintenance Manual
324 Compact Excavator

S/N AKY511001 & Above



6989592 (1-10)

Printed in U.S.A.

© Bobcat Company 2010

MidWestTech | Bobcat 324 Compact Excavator Operation & Maintenance Manual | Publica... Order the manual at mid-west-tech.com >

CONTENTS

CONTENTS 3
FOREWORD 5
SAFETY & TRAINING RESOURCES 13
OPERATING INSTRUCTIONS 23
PREVENTIVE MAINTENANCE 69
MACHINE SIGN TRANSLATIONS 111
SPECIFICATIONS 127
WARRANTY 135
ALPHABETICAL INDEX 139

REFERENCE INFORMATION

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

Excavator Serial Number _____

Engine Serial Number _____

NOTES:

_____

_____

_____

_____

YOUR BOBCAT DEALER:

_____

ADDRESS:

_____

PHONE:

_____

Bobcat Company
P.O. Box 128
Gwinner, ND 58040-0128
UNITED STATES OF AMERICA

Doosan Benelux SA
Drève Richelle 167
B-1410 Waterloo
BELGIUM

MidWestTech | Bobcat 324 Compact Excavator Operation & Maintenance Manual | Publica... Order the manual at mid-west-tech.com >

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 BOBCAT EXCAVATOR. If you have any questions, see your Bobcat dealer. This manual may illustrate options and accessories not installed on your excavator.

BOBCAT COMPANY IS IS0 9001 CERTIFIED 7

REGULAR MAINTENANCE ITEMS 7

SERIAL NUMBER LOCATIONS 8
- Excavator Serial Number 8
- Engine Serial Number 8

DELIVERY REPORT 8

EXCAVATOR IDENTIFICATION 9

FEATURES, ACCESSORIES AND ATTACHMENTS 10
- Standard Items 10
- Options And Accessories 10
- Attachments 10
- Buckets Available 10
- Falling Object Guards (FOGS) 11
- Special Applications Kit 11
- Special Applications Kit Inspection And Maintenance 11

MidWestTech | Bobcat 324 Compact Excavator Operation & Maintenance Manual | Publica... Order the manual at mid-west-tech.com >

Control Console

Figure 66



Lower the control console **[Figure 66]**.

NOTE: There is a control lock sensor in the console(s) which deactivates the hydraulic control levers (joysticks) and the traction drive system when the control console(s) are raised. The console(s) must be in the locked down position for the hydraulic control levers (joysticks) and traction system to operate.

NOTE: If the control lock sensor does not deactivate the control levers and traction system when console(s) are raised, see your Bobcat dealer for service.

MidWestTech | Bobcat 324 Compact Excavator Operation & Maintenance Manual | Publica... Order the manual at mid-west-tech.com >

ENGINE LUBRICATION SYSTEM (CONT'D)

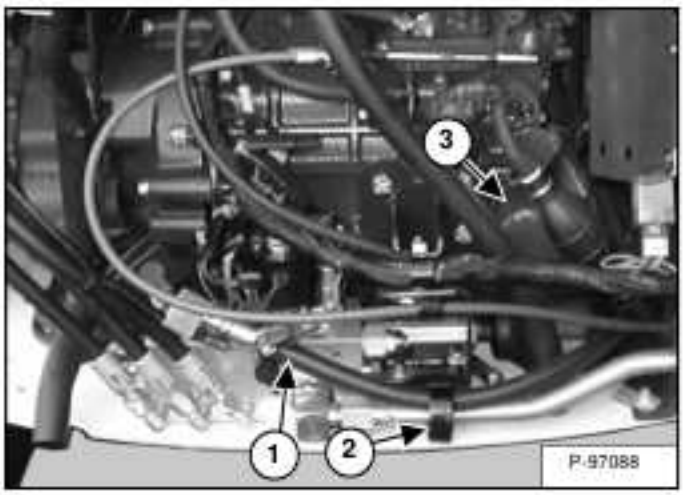
Removing And Replacing Oil And Filter

See the SERVICE SCHEDULE for the service interval for replacing the engine oil and filter. (See SERVICE SCHEDULE on Page 73.)

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

Open the tailgate. (See TAILGATE on Page 78.)

Figure 135



Remove the engine oil drain hose (Item 1) from the retainer clamp (Item 2). Remove the plug from the end of the drain hose (Item 1) **[Figure 135]**. Drain the oil into a container and recycle or dispose of used oil in an environmentally safe manner.

Remove the oil filter (Item 3) **[Figure 135]** and clean the filter housing surface.

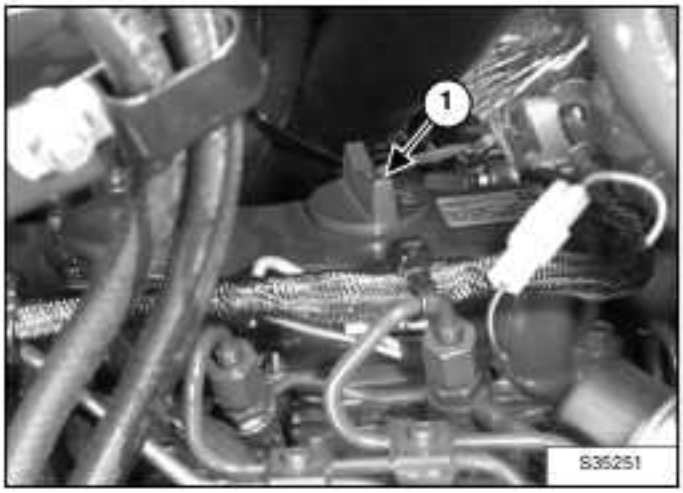
Use a genuine Bobcat filter.

Put clean oil on the filter gasket.

Install the filter and tighten by hand.

Install and tighten the oil drain plug. Reposition the drain hose (Item 1) through the retainer clamp (Item 2) **[Figure 135]**.

Figure 136



Remove the fill cap (Item 1) **[Figure 136]**.

Put oil in the engine. (See Engine Oil Chart on Page 85.)

Install the fill cap (Item 1) **[Figure 136]**.

Start the engine and let it run for several minutes.

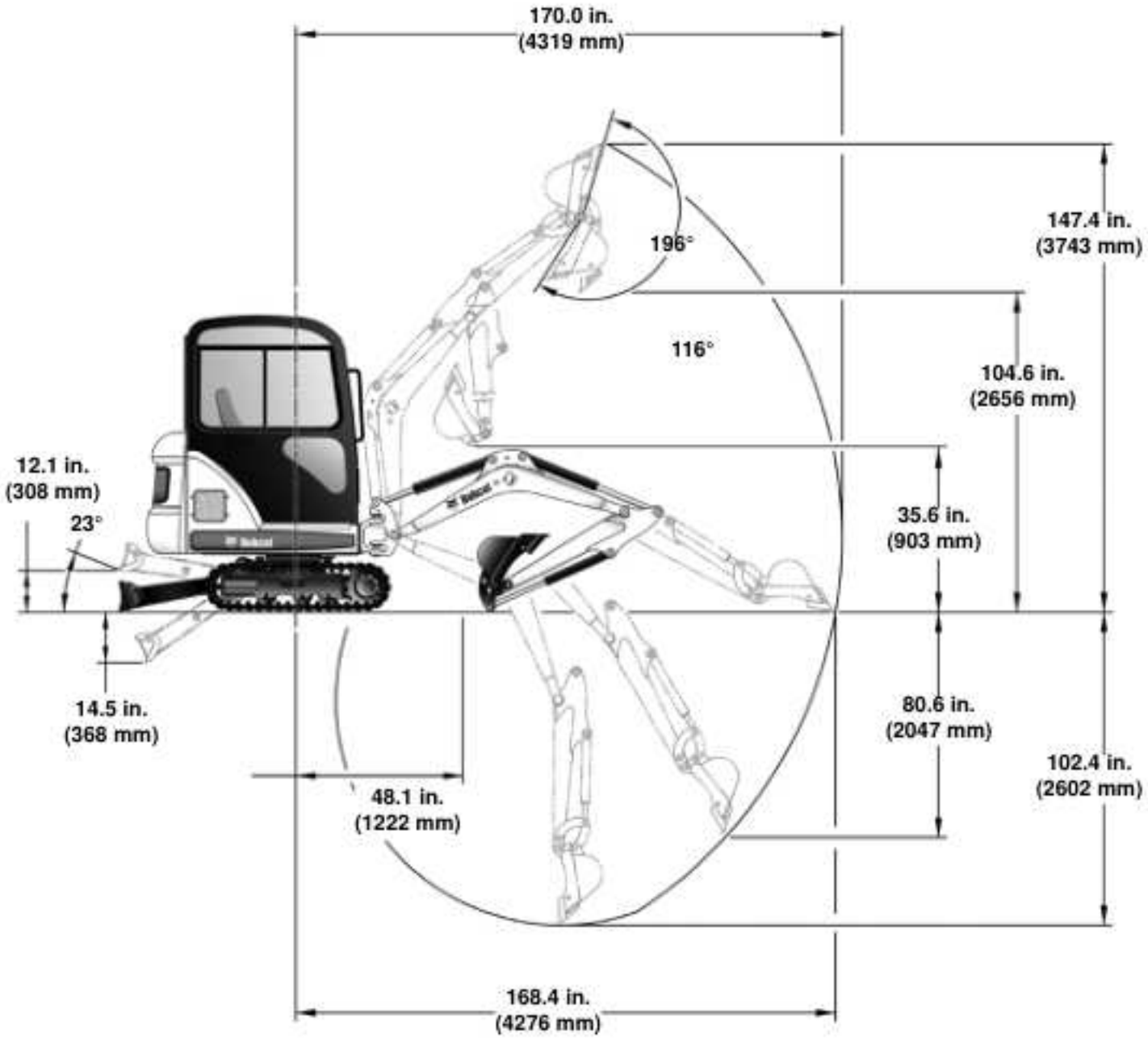
Stop the engine. Check for leaks at the oil filter. Check the oil level.

Add oil as needed if it is not at the top mark on the dipstick (Item 3) **[Figure 135]**.

MidWestTech | Bobcat 324 Compact Excavator Operation & Maintenance Manual | Publica... Order the manual at mid-west-tech.com >

324 Excavator Machine Dimensions - Standard Arm

- All dimensions are shown in inches. Respective metric dimensions are given in millimeters enclosed by parentheses.
- Where applicable, specification conform to SAE or ISO standards and are subject to change without notice.



NA5019

MidWestTech | Bobcat 324 Compact Excavator Operation & Maintenance Manual | Publica... Order the manual at mid-west-tech.com >

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

MidWestTech | Bobcat 324 Compact Excavator Operation & Maintenance Manual | Publica... Order the manual at mid-west-tech.com >