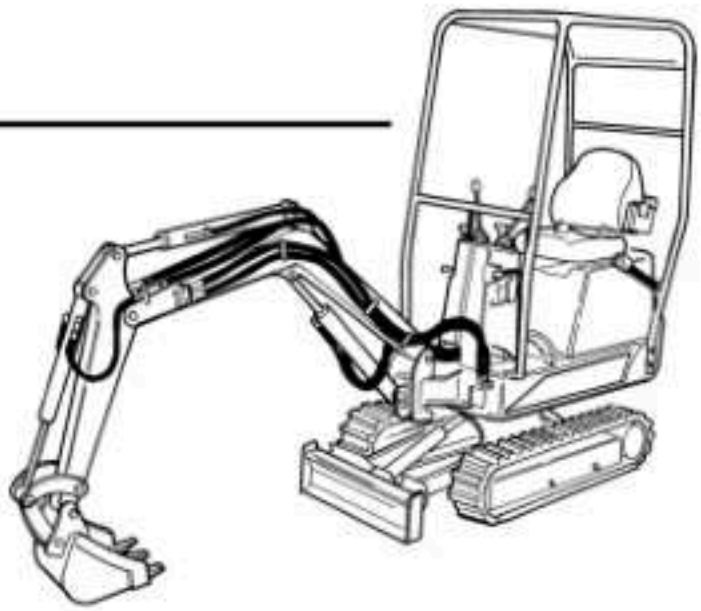
316

Bobcat®

Operation & Maintenance Manual

S/N 522811001 & Above
S/N 522911001 & Above



An IR Ingersoll-Rand business

6902283 (1-05) Revised (12-05) (4)

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CONTENTS

FOREWORD III

SAFETY XI

OPERATING INSTRUCTIONS OI-1

PREVENTIVE MAINTENANCE PM-1

MACHINE SIGN TRANSLATIONS MST-1

SPECIFICATIONS SPEC-1

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.

REFERENCE INFORMATION

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

Excavator Serial Number _____

Engine Serial Number _____

_____

_____

NOTES:

_____

_____

_____

_____

YOUR BOBCAT DEALER:

_____

ADDRESS:

_____

PHONE:

_____

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

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J. Huysmanslaan 59
B-1651 LOT
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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 excavator. READ AND UNDERSTAND THIS OPERATION & MAINTENANCE MANUAL BEFORE OPERATING YOUR Bobcat Excavator. If you have any questions, see your Bobcat dealer.

BOBCAT COMPANY IS ISO 9001 CERTIFIED V

DELIVERY REPORT. VII

ENGINE SERIAL NUMBER VII

EXCAVATOR SERIAL NUMBER. VII

FEATURES AND ACCESSORIES IX
Standard Items. IX

MACHINE IDENTIFICATION VIII

MOTOR OIL V

REGULAR MAINTENANCE ITEMS V

SERIAL NUMBER LOCATIONS VII

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CONTROL LOCKOUT LEVERS

Operation

Figure OI-4



Lower the control lockout lever (Item 1) **[Figure OI-4]** before operating the machine.

When the control lockout is raised, the hydraulic control functions are locked and cannot be operated.

OPERATOR CANOPY

TOPS Approved

Figure OI-5



The excavator has an operator canopy (TOPS) (Tip Over Protective Structure) (meets ISO 12117) as standard equipment **[Figure OI-5]**.

The canopy provides operator protection if the excavator tips over. The seat belt must be worn for TOPS protection.

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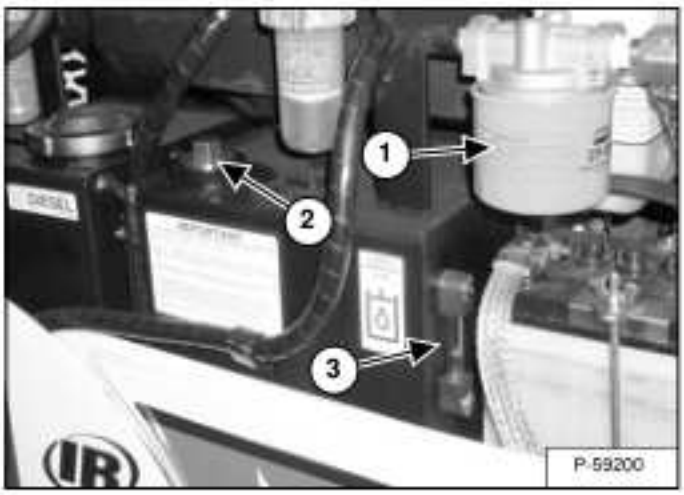
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Replacing The Hydraulic Filter

For the correct service interval (See SERVICE SCHEDULE on Page PM- 5.)

Raise the engine cover.

Figure PM-21



Remove the filter element (Item 1) **[Figure PM-21]**.

Clean the filter housing where the filter gasket makes contact.

Put clean hydraulic fluid on the gasket. Install the new filter element and hand tighten only.

Start the engine and run the excavator through the hydraulic functions. Stop the engine. Check the fluid level at the sight gauge and add fluid as needed. Check the filter area for leaks.

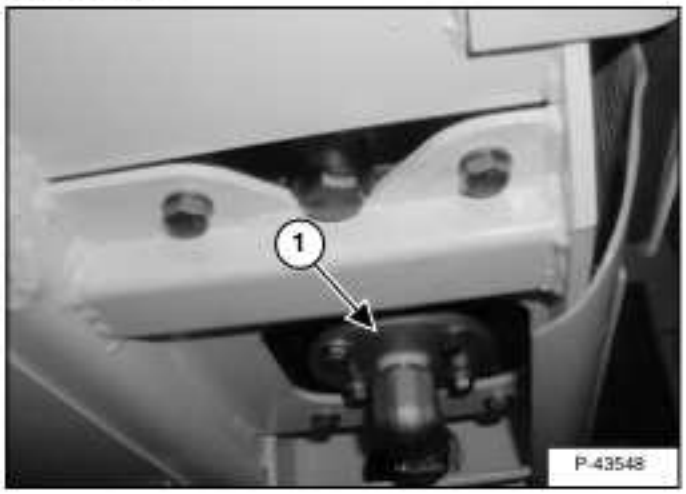
Replacing Hydraulic Fluid

For the correct service interval (See SERVICE SCHEDULE on Page PM- 5.)

Retract the arm and bucket cylinders. Lower the bucket to the ground. Stop the engine.

Remove and replace the hydraulic filter.

Figure PM-22



Remove the fill cap (Item 2) **[Figure PM-21]** then remove the drain / filter cover (Item 1) **[Figure PM-22]** from the bottom of the reservoir.

Drain the fluid into a container. Recycle or dispose of the used fluid in an environmentally safe manner.

Clean the filter.

Install the drain / filter cover (Item 1) **[Figure PM-22]**.

Add fluid to reservoir (Item 2) **[Figure PM-21]** until it is at the center of the sight gauge (Item 3) **[Figure PM-21]**. For type and capacity (See FUEL, COOLANT AND LUBRICANTS on Page SPEC-6.)

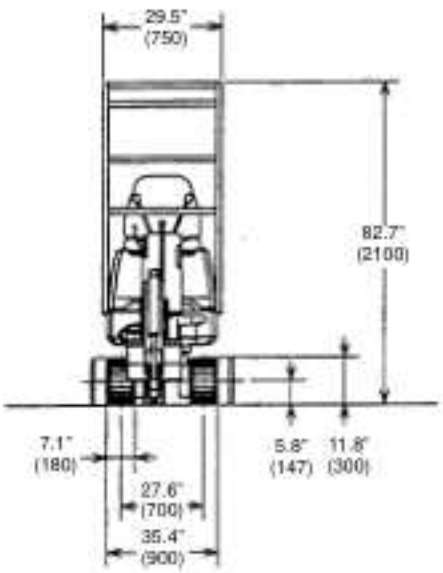
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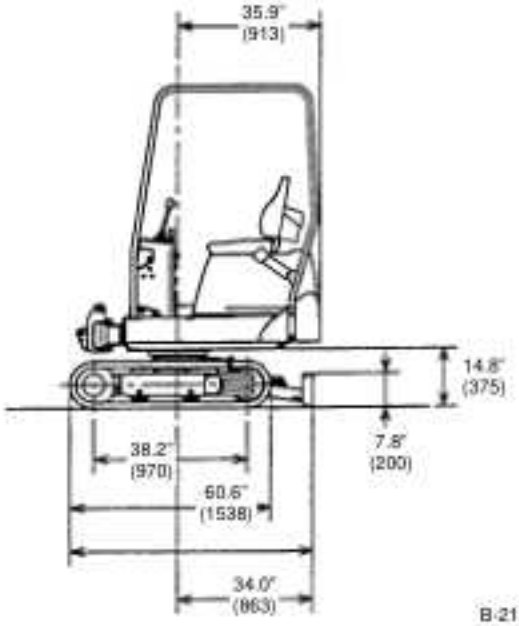
EXCAVATOR SPECIFICATIONS (316)

Machine Dimensions

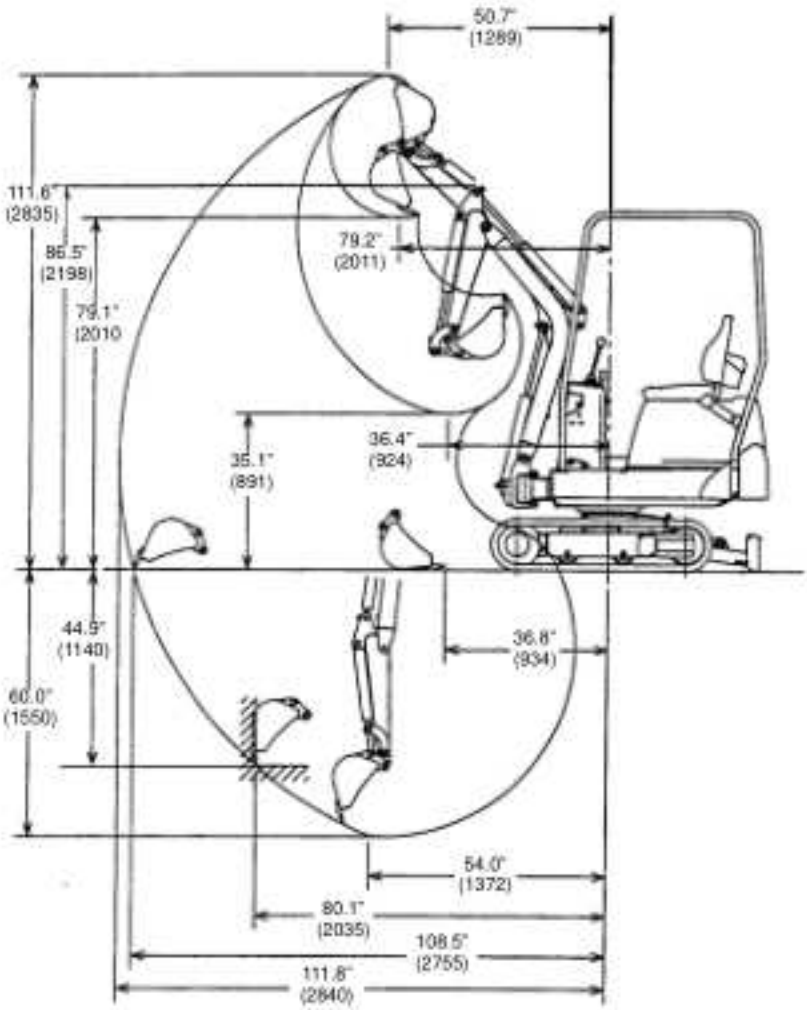
- All dimensions are shown in inches. Respective metric dimensions are given in millimeters enclosed by parentheses.
- Where applicable, specification conform to SAE or ISO standards and are subject to change without notice.



B-21829



B-21830



B-21828

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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

WARNING

Warnings on the machine and in the manuals are for your safety. Failure to obey warnings can cause injury or death.

W-2044-1285

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, hearing protection or Special Applications Kits are required for some work. See your Bobcat dealer about Bobcat Safety Equipment for your model.

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