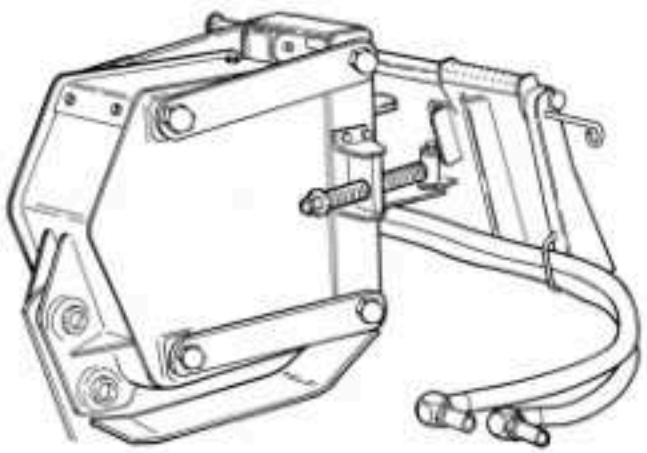
Vibratory Plow VP12

Bobcat®

Operation & Maintenance Manual

S/N 988600101 & Above



An Ingersoll Rand business

Printed in U.S.A.

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REFERENCE INFORMATION

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

Vibratory Plow Serial Number _____

NOTES _____

YOUR BOBCAT® DEALER:

_____

ADDRESS:

_____

PHONE:

_____

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

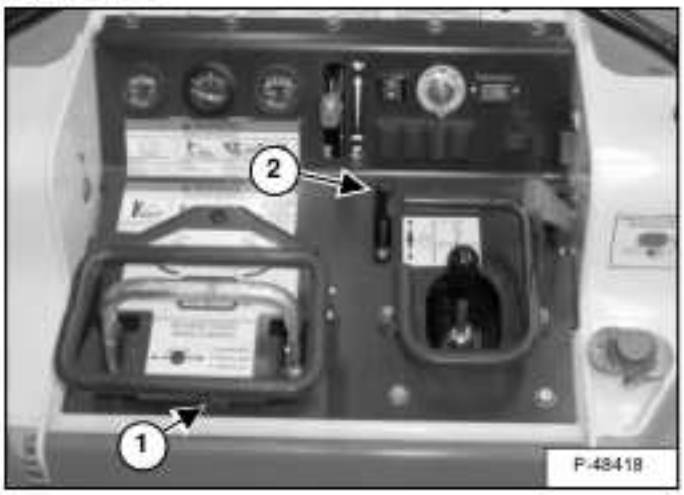
Bobcat Company Europe
J. Huysmanslaan 59
B-1651 LOT
Belgium

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OPERATING THE VIBRATORY PLOW (CONT'D)

MT52 Mini Loaders Only:

Figure OI-30

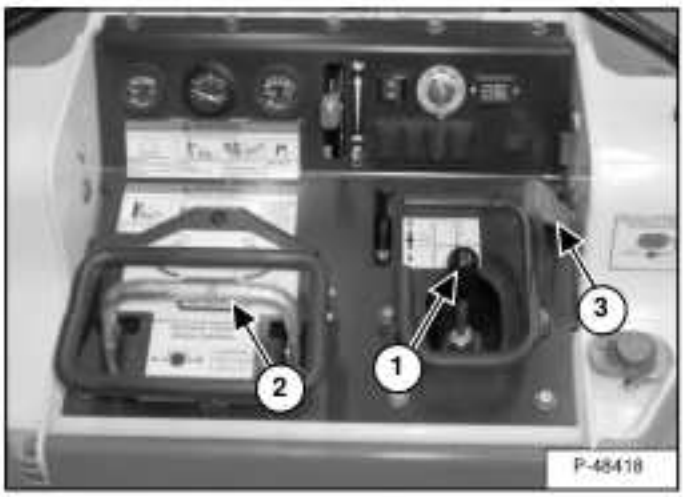


The Reverse Travel Speed Control (Item 1) can be used to set your reverse travel speed. Loosen the knob (Item 1) **[Figure OI-30]** and slide the knob to the left until the desired speed is obtained. Retighten the knob to the selected speed.

Move the auxiliary control lever (Item 2) **[Figure OI-30]** all the way forward to engage the vibrator.

Move the auxiliary control lever (Item 2) **[Figure OI-30]** to the neutral position to stop the vibrator.

Figure OI-31



Lever (Item 1) **[Figure OI-31]** controls both arm lift and tilt functions.

To lower the Vibratory Plow, move the lever (Item 1) **[Figure OI-31]** forward.

To raise the Vibratory Plow, move the lever (Item 1) **[Figure OI-31]** back.

To tilt the Vibratory Plow forward, move the lever (Item 2) **[Figure OI-31]** to the right.

To tilt the Vibratory Plow back, move the lever (Item 2) **[Figure OI-31]** to the left.

Lever (Item 2) **[Figure OI-31]** controls both forward/rearward mini loader movement and mini loader steering.

To move the Vibratory Plow rearward, pull the travel/steering lever (Item 2) **[Figure OI-31]** back.

To stop the Vibratory Plow movement, let go of the travel/steering lever (Item 2) **[Figure OI-31]**. The lever will go to the neutral position and the mini loader travel will stop.

NOTE: Always plow in the rearward direction.

Always engage the parking brake lever (Item 3) **[Figure OI-31]** when the mini loader is not in use.

See the MT52 Operation & Maintenance Manual for detailed description of the MT52 mini loader operation.

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⚠ WARNING

Instructions are necessary before operating or servicing machine, Read 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. Failure to follow instructions can cause injury or death.

W-2003-0199

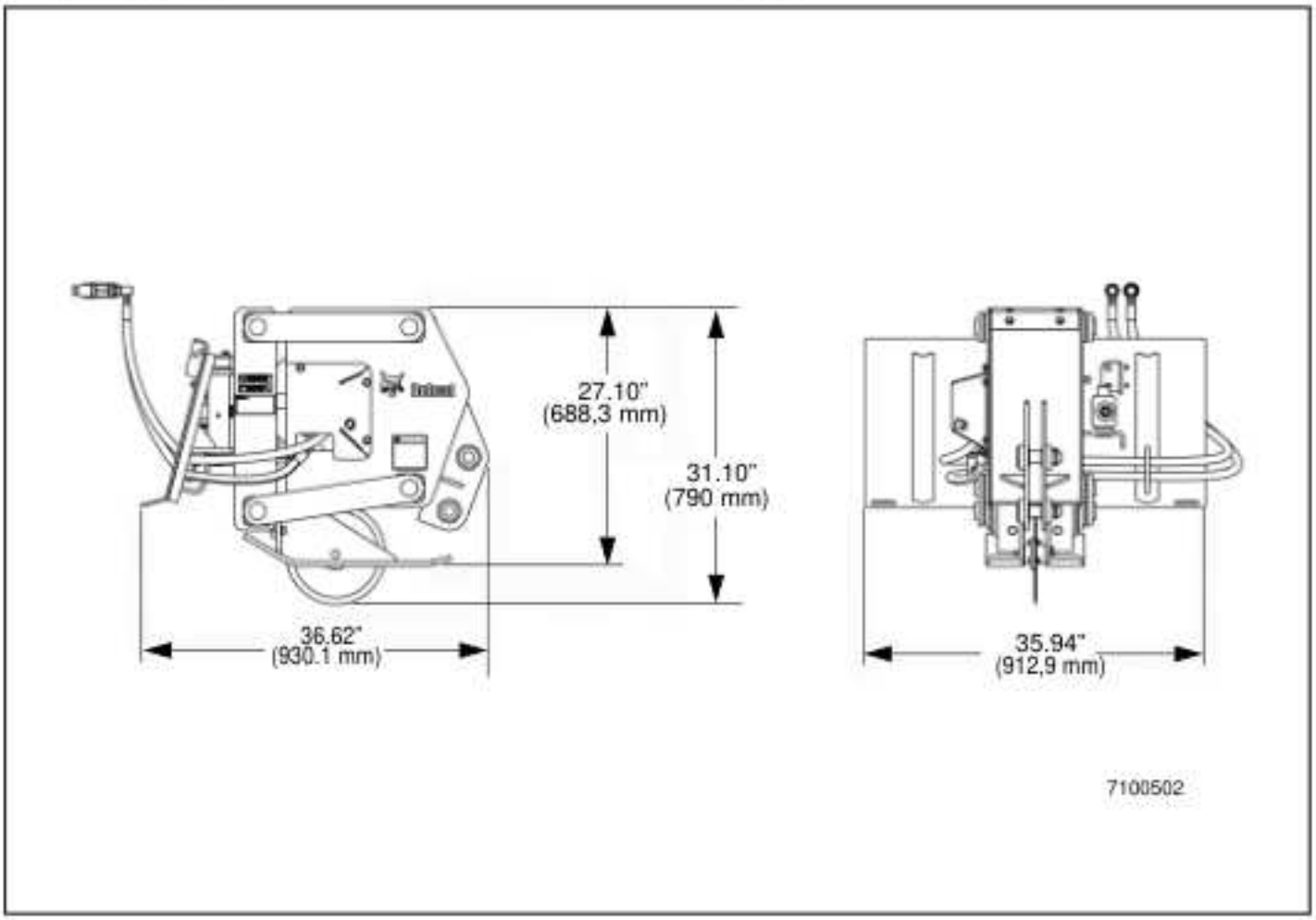
If the Vibratory Plow is not working correctly, check the hydraulic system of the Bobcat Mini Loader thoroughly before making any repairs on the Vibratory Plow. Vibratory Plow problems can be affected by a hydraulic system that is not operating to specifications or such problems as a plugged fuel filter or hydraulic filter in the Mini Loader. Connect a flow meter to the Mini Loader to check the hydraulic pump output, relief valve setting and tubelines to check flow and pressure. (See the Mini Loader Service manual for the correct procedure to connect the flow meter.).

PROBLEM	CAUSE	CORRECTION
Vibratory Plow cut is inadequate.	Blade cutting edge worn.	Sharpen blade.
	Coulter missing or worn.	Install coulter or sharpen edge.
Noisy vibratory motor (with load)	Vibration; loose bolts.	Check bolt torque.
Noisy vibratory motor (with no load).	Humming; worn bearings	Replace bearings.
External oil leaks.	Damaged motor seals.	Replace seals as needed.
Motor does not vibrate at normal speed.	Not enough hydraulic flow.	Check pump flow and rotation speed.
	Internal leaks.	Check motor.
Vibratory Plow lifts up while plowing.	Plowing to fast.	Slow plowing speed.
	Bent blade.	Replace blade.
	Blade cutting edge worn.	Sharpen blade.
	Blade angle wrong.	Try tilting the Vibratory Plow forward slightly to increase the blade angle.
	Using lift arm float.	Disengage float function. Lower the lift arms to position plow flat to the ground.

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SPECIFICATIONS

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



VIBRATORY PLOW	
Weight	520 lbs. (235 Kg)
Hydraulic Flow	10 - 14 GPM (37,9 - 53 Lpm)
Operating Pressure	3000 psi (207 Bar)

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SAFETY INSTRUCTIONS

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 machine 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.

Know the Work Conditions

- Know the weight of the materials being handled. Avoid exceeding the machine load capacities. 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 *USE SAFETY RULES* Section of this manual.
- Wear tight fitting clothing. Always wear safety glasses when doing maintenance or service. Safety glasses, hearing protection, Special Applications Kits or a Front Window Guard are required for some work. See your Bobcat dealer about Bobcat Safety equipment for your machine.

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