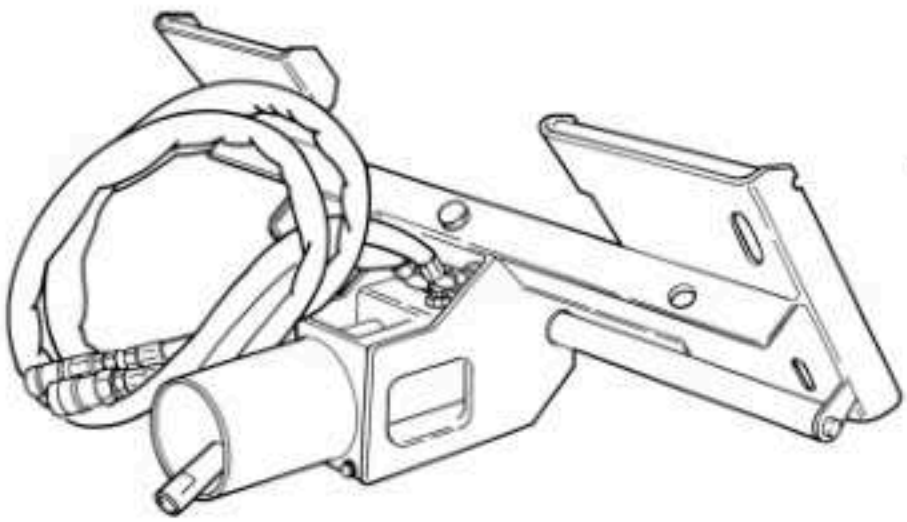
MINI
BORING
DRIVE

Bobcat®

Operation & Maintenance Manual

S/N 006000101 & Above



An IR Ingersoll-Rand business

6903826 (12-04)

Printed in U.S.A.

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REFERENCE INFORMATION

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

_____

_____

_____

_____

_____

NOTES:

_____

_____

YOUR BOBCAT DEALER:

_____

ADDRESS:

_____

PHONE:

_____

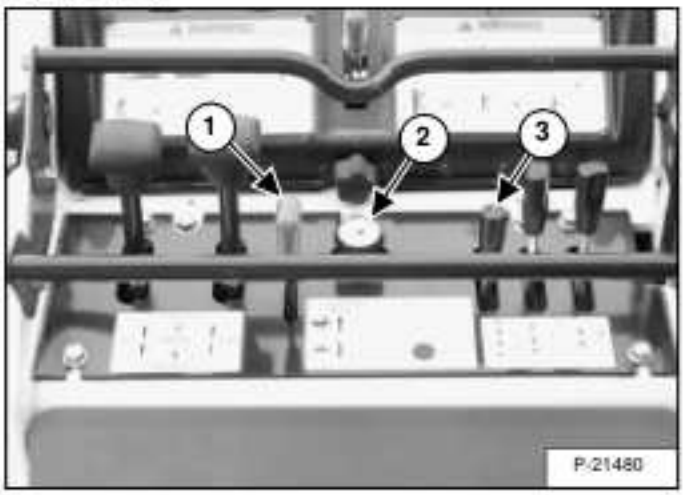
Bobcat Company
P.O. Box 128
Gwinner, ND 58040-0128

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

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MT50 Mini Loader Controls

Figure OI-31



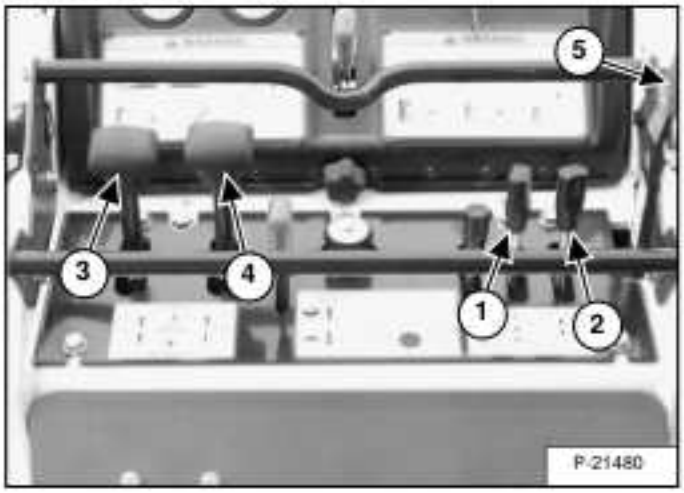
Move the operation mode selector lever (Item 1) **[Figure OI-31]** fully back to the speed control position.

Turn the speed control knob (Item 2) **[Figure OI-31]** clockwise for increased auxiliary hydraulic flow. (See MT50 Operation And Maintenance Manual and machine signs (decals) for additional information.)

Move the auxiliary control lever (Item 3) **[Figure OI-31]** all the way forward for bit rotation.

Move the auxiliary control lever (Item 3) **[Figure OI-31]** to the neutral position to stop bit rotation.

Figure OI-32



To lower the boring attachment, push the lever (Item 1) **[Figure OI-32]** forward.

To raise the boring attachment, pull the lever (Item 1) **[Figure OI-32]** back.

To tilt the boring attachment forward, push the lever (Item 2) **[Figure OI-32]** forward.

To tilt the boring attachment back, pull the lever (Item 2) **[Figure OI-32]** back.

To move the boring attachment rearward, pull the two travel/steering levers (Item 1 & 2) **[Figure OI-32]** back.

To stop the boring attachment movement, let go of the two travel/steering levers (Item 3 & 4) **[Figure OI-32]**. The levers will go to the neutral position and the loader travel will stop.

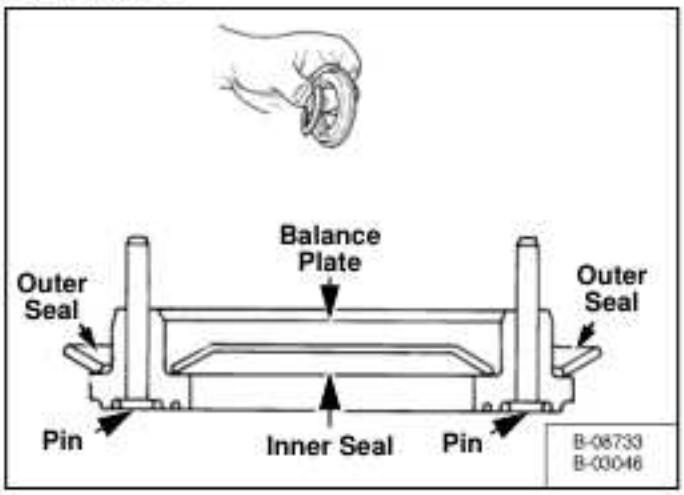
Always engage the parking brake lever (Item 5) **[Figure OI-32]** when the mini loader is not in use.

See the MT50 Operation & Maintenance Manual for detailed description of the MT50 mini loader operation.

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Disassembly And Assembly (Cont'd)

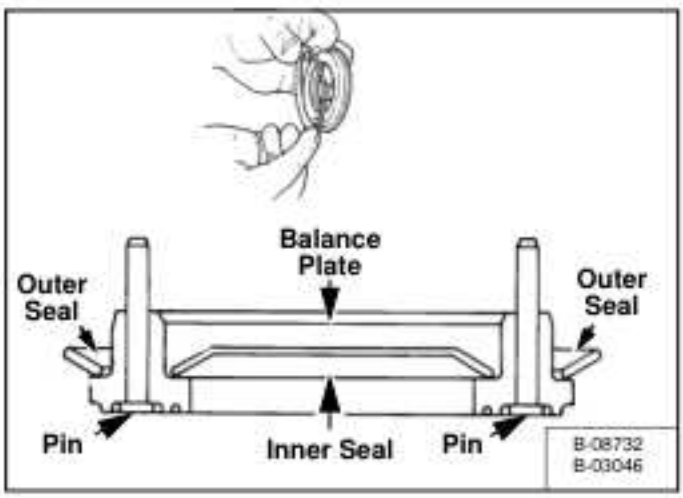
Figure PM-10



Remove the inner seal from the balance plate **[Figure PM-10]**.

Installation: Put grease on the inner seal and install as shown **[Figure PM-10]**.

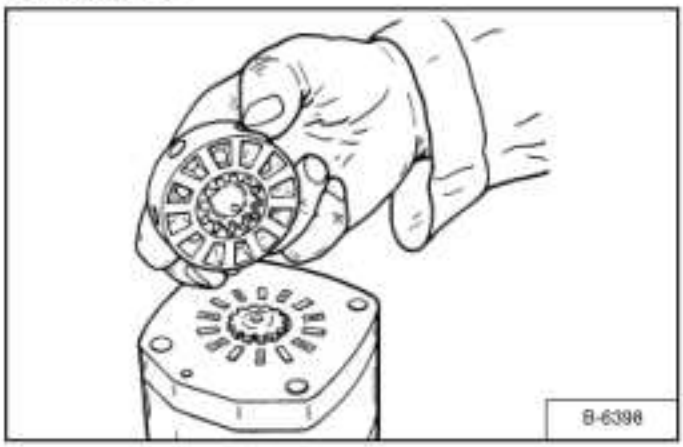
Figure PM-11



Remove the outer seal from the balance plate **[Figure PM-11]**.

Installation: Put grease on the out seal and install as shown **[Figure PM-11]**.

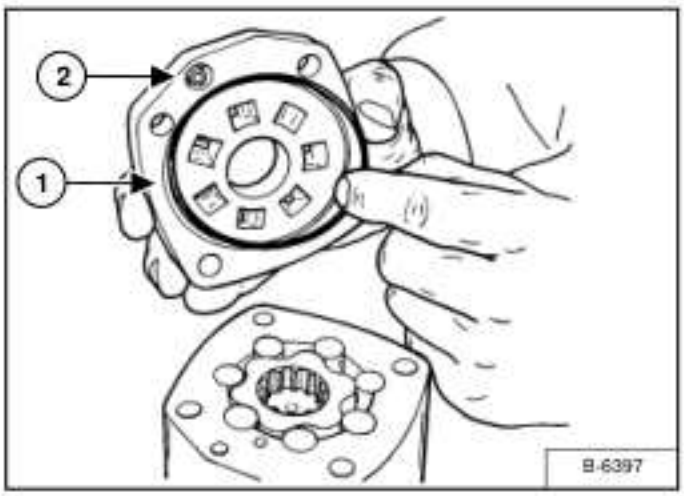
Figure PM-12



Remove the valve **[Figure PM-12]**.

NOTE: (See Contents Page 20-01.) for timing the motor when installing the valve, valve drive and geroler.

Figure PM-13



Remove the valve plate **[Figure PM-13]**.

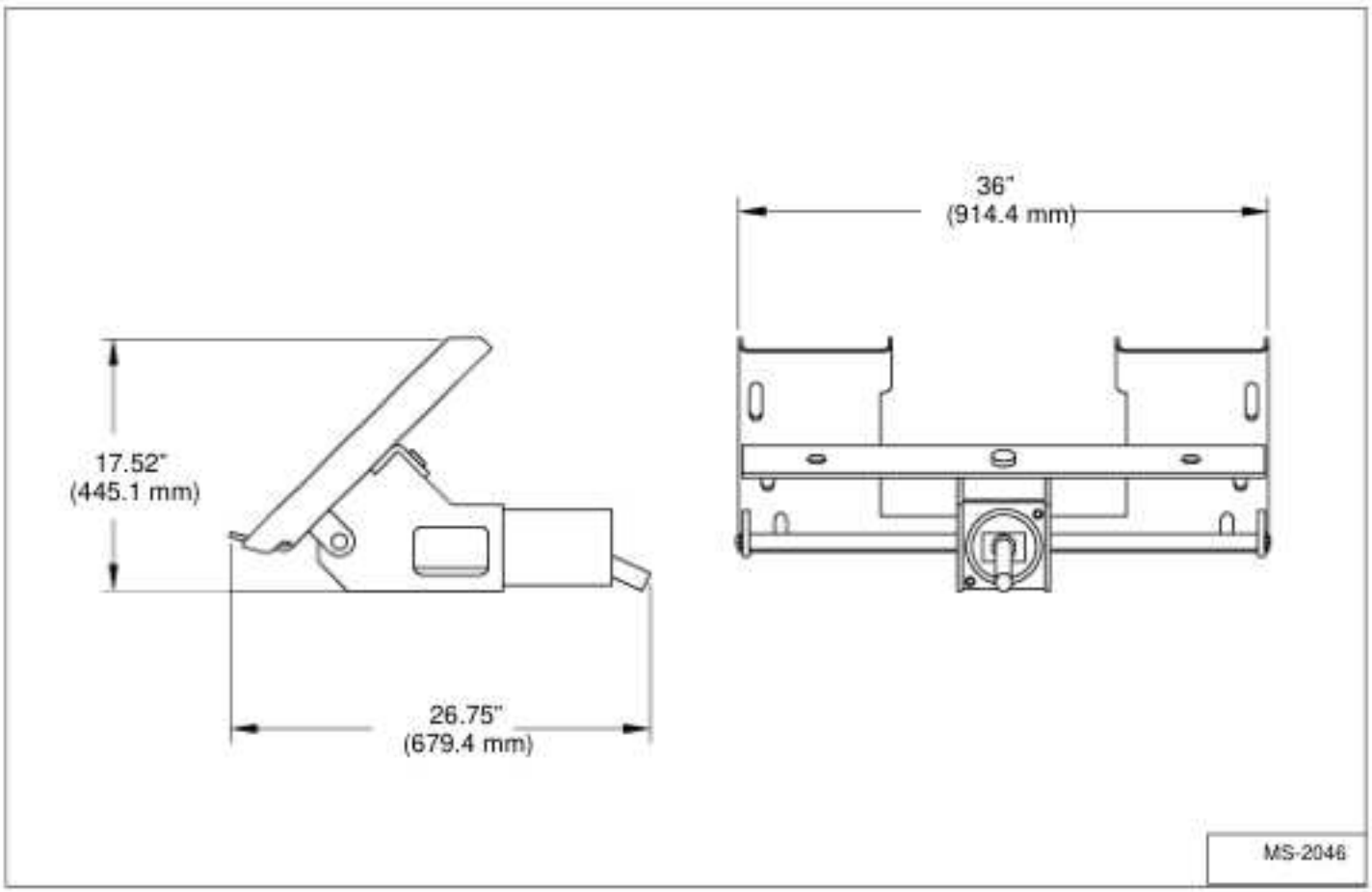
Remove the large O-ring (Item 1) and small O-ring (Item 2) **[Figure PM-13]**.

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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

.



MINI BORING DRIVE	
Weight	120 lbs. (54 Kg)
Boring Diameter Range	1.25" - 3.50" (3 cm - 9 cm)
Rotation Speed	100 RPM @ 9 gpm (341 lpm)
Torque	430 ft.-lbs. 583 Nm @ 2000 PSI (138 Bar)
Maximum Pressure	3000 PSI (207 Bar)

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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 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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