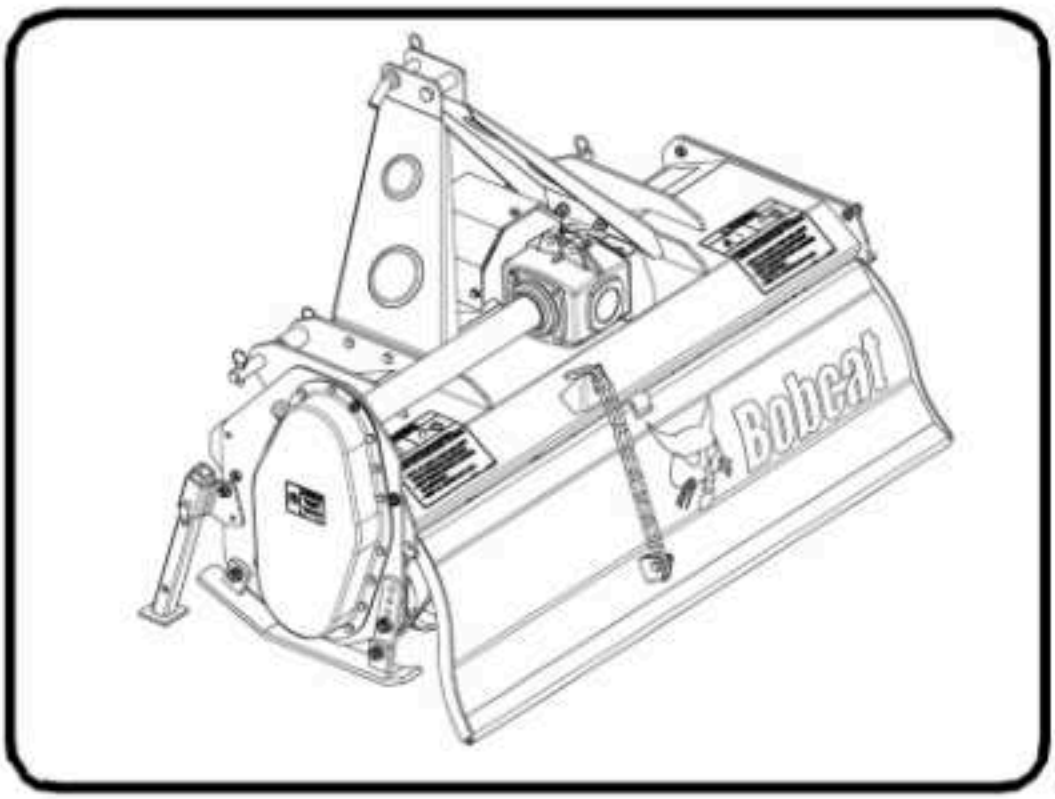
Bobcat®

Operation & Maintenance Manual
Three-Point Tiller

3TIL48 (48 Inch) S/N ADL700101 & Above
3TIL60 (60 Inch) S/N ADKY00101 & Above
3TIL74 (74 Inch) S/N ADL400101 & Above



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REFERENCE INFORMATION

Write the correct information for YOUR three-point tiller in the spaces below. Always use these numbers when referring to your three-point tiller.

Three-Point Tiller Serial Number _____

NOTES:

_____

_____

_____

YOUR BOBCAT® DEALER:

ADDRESS:

_____

PHONE:

_____

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

Bobcat Company Europe
Dréve 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 three-point tiller. READ AND UNDERSTAND THIS OPERATION & MAINTENANCE MANUAL BEFORE OPERATING YOUR three-point tiller. If you have any questions, see your Bobcat dealer.

BOBCAT COMPANY IS ISO 9001:2000 CERTIFIED V

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Implement Serial Number VI

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Operation With The Compact Tractor (Cont'd)

Operating The Three-Point Implement

⚠ WARNING

FLYING OBJECTS AND ROTATING PARTS CAN CAUSE INJURY OR DEATH

- **Stay at least 10 ft (3 m) away from operating equipment.**
- **Stop engine before cleaning or servicing.**
- **Keep all guards in place.**

W-2708-0408

⚠ WARNING

AVOID INJURY OR DEATH

- **Use ROPS and fasten the seat belt.**
- **Install the correct front ballast.**
- **Never modify equipment or use unapproved implements.**
- **Operate the compact tractor from the operator's seat only.**
- **Keep bystanders away. Never carry riders.**

W-2667-0907

Adjust the skids and leveling board as needed for the desired depth and finish. (See Machine / Implement Setup on Page OI-33.)

Enter the compact tractor. (See Entering And Exiting The Compact Tractor on Page OI-35.) Press the brake pedals and fully press the clutch pedal. Put all controls in neutral. Start the engine.

Lower the three-point tiller, keeping the tines three to four inches from ground. (See the compact tractor's Operation & Maintenance Manual for detailed information on operating the compact tractor.)

NOTE: Damage to implement and tractor may be caused if PTO is engaged while the tiller is resting on the ground.

Engaging PTO

Move the engine speed lever back to the low idle position. Press the brake pedals and press down fully on the clutch pedal (if applicable).

Engage the rear-PTO system (see the Compact Tractor Operation and Maintenance Manual).

Slowly release the clutch pedal (if applicable).

The rear-PTO driveline will start to rotate and the three-point tiller rotor will begin to turn.

Move the engine speed lever to increase engine speed to the correct RPM as indicated on the tachometer. This will cause the rear-PTO shaft to rotate at 540 RPM. Do Not exceed a rear-PTO speed of 540 RPM.

1. Slowly lower the three-point placing the tiller on the ground, allowing it to work up the soil until it's resting on the skids.
2. Start driving the tractor forward towards the other end of the area to be tilled. Watch for and avoid obstructions and obstacles that may cause damage to the tiller and tractor.
3. When at the other end of the work area, stop the tractor, raise the tiller a few inches to clear the ground. Use caution when raising the three-point implement when the PTO is engaged, if the tiller is raised too high the PTO shaft may bind causing damage.

NOTE: Caution is to be used when raising the three-point implement when PTO is engaged.

4. Turn the tractor, line up next to the first pass, overlapping a few inches.
5. Follow steps 1 through 4 until the area is tilled.

NOTE: If the ground is extremely compacted, it may be necessary to make several passes to get to the desired depth.

The compact tractor speed is determined by the type and condition of the soil.

⚠ WARNING

ROTATING SHAFT CAN CAUSE INJURY OR DEATH

- **Keep all shields and guards in place.**
- **Overspeeding implement PTO can cause serious injury or death. Do NOT exceed rear PTO speed of 540 RPM.**

W-2633-0707

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LUBRICATING THE IMPLEMENT

Lubrication Locations

⚠ WARNING

AVOID INJURY OR DEATH

The parking brake must be engaged before leaving the operator's seat. Rollaway can occur because the transmission may not prevent machine movement. Lock the brake pedals together before activating the parking brake.

W-2658-0807

⚠ WARNING

AVOID INJURY OR DEATH

- **Disengage the PTO (rear and mid), engage the parking brake, stop the engine and make sure all rotating components are completely stopped before connecting, disconnecting, adjusting or cleaning any PTO driven equipment.**
- **Always keep PTO shields and all guards in place when using PTO driven equipment.**
- **Disengage PTO (rear and mid) for road travel.**
- **Keep hands, feet and clothing away.**

W-2568-0907

⚠ WARNING

AVOID INJURY OR DEATH

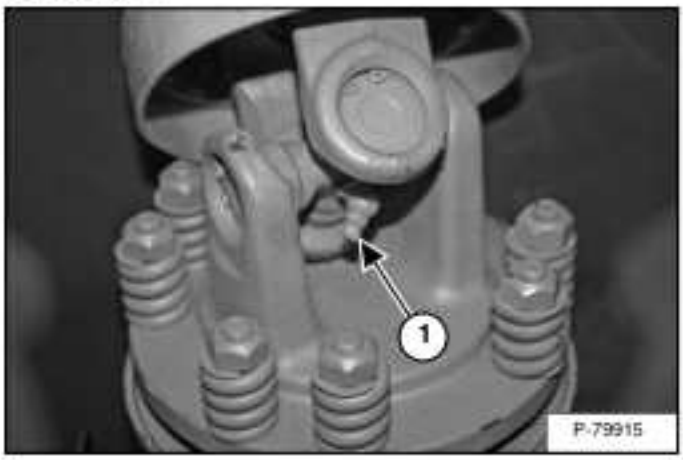
Wear safety glasses to prevent eye injury when any of the following conditions exist:

- **When fluids are under pressure.**
- **Flying debris or loose material is present.**
- **Engine is running.**
- **Tools are being used.**

W-2019-0907

Always use a good quality lithium base multi-purpose grease when lubricating the three-point tiller.

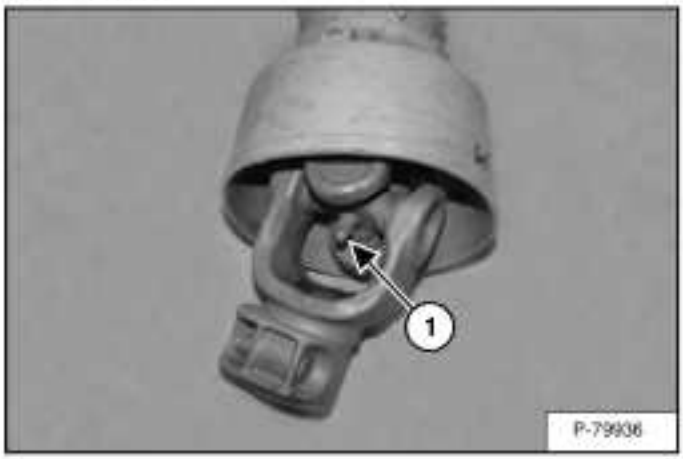
Figure PM-7



The grease fitting (Item 1) **[Figure PM-7]** is located on the gearbox side of the PTO shaft on the knuckle, wipe any excess grease or dirt off before greasing.

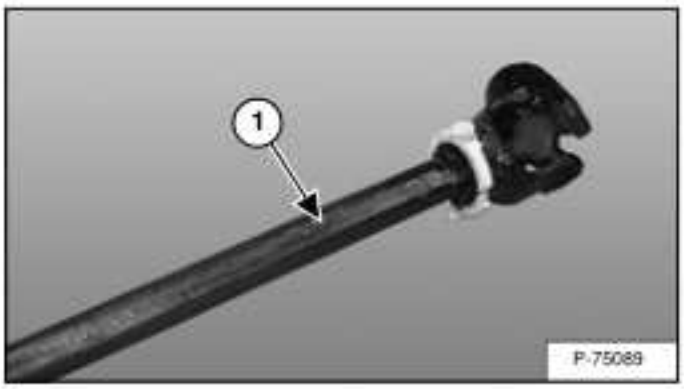
NOTE: The PTO Shield was removed for clarity.

Figure PM-8



The grease fitting (Item 1) **[Figure PM-8]** is located on the compact tractor side of the PTO shaft on the knuckle, wipe any excess grease or dirt off before greasing.

Figure PM-9



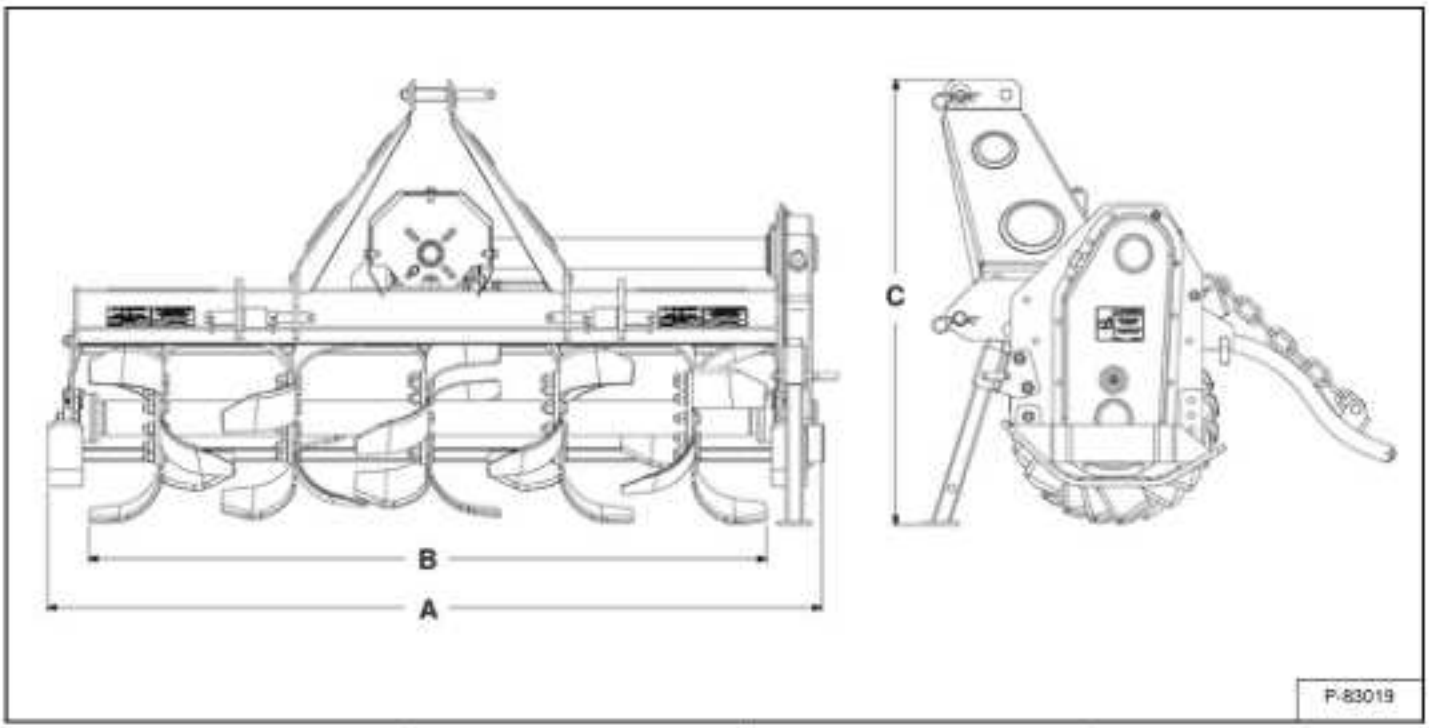
Apply grease to the PTO driveline shaft (Item 1) **[Figure PM-9]**.

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THREE-POINT TILLER SPECIFICATIONS

Dimensions

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



DESCRIPTION	48 IN. TILLER	60 IN. TILLER	74 IN. TILLER
Overall Width (A)	52.6 in. (1336 mm)	63.5 in. (1613 mm)	79.0 in. (2007 mm)
Overall Cutting Width (B)	47.8 in. (1214 mm)	59.1 in. (1501 mm)	74.0 in. (1880 mm)
Overall Height (C)	30.0 in. (762 mm)	32.0 in. (813 mm)	33.1 in. (841 mm)

Performance

DESCRIPTION	48 IN. TILLER	60 IN. TILLER	74 IN. TILLER
Operating Weight	344 lb. (156 kg)	450 lb. (204 kg)	653 lb. (296 kg)
Working Depth (Max.)	7.0 in. (178 mm)	7.0 in. (178 mm)	7.0 in. (178 mm)
Drive Type	Chain	Gear	Gear
Hitch Category	0 and 1	1	1 and 2
Flanges/Blades Per	5/6	7/6	9/6
Total Blades	30	42	54
Tractor PTO Speed	540	540	540
Rotor RPM	253	246	242
Tractor PTO HP	15 - 20	15 - 35	30 - 50
Skid Shoes	Adjustable / Replaceable	Adjustable / Replaceable	Adjustable / Replaceable

Capacities

DESCRIPTION	48 IN. TILLER	60 IN. TILLER	74 IN. TILLER
Gearbox	0.13 Gal. (0.5 L)	0.20 Gal. (0.75 L)	.26 Gal. (1.0 L)
Side Transmission	0.26 Gal. (1.0 L)	0.40 Gal. (1.5 L)	0.40 Gal. (1.5 L)

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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

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 machine and implement 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 and the implement.

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 implement safely under all conditions of the work area. Fasten seat belt securely when Roll-Over Protective Structure (ROPS) is up and locked. DO NOT wear the seat belt if ROPS is down.

Know the Work Conditions

- Know the weight of the materials being handled. Avoid exceeding the machine and implement 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 *Call Before You Dig* Section of this manual.
- Wear tight fitting clothing. Always wear safety glasses when doing maintenance or service. Safety glasses, respiratory equipment, 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.

SI IMP-0208

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