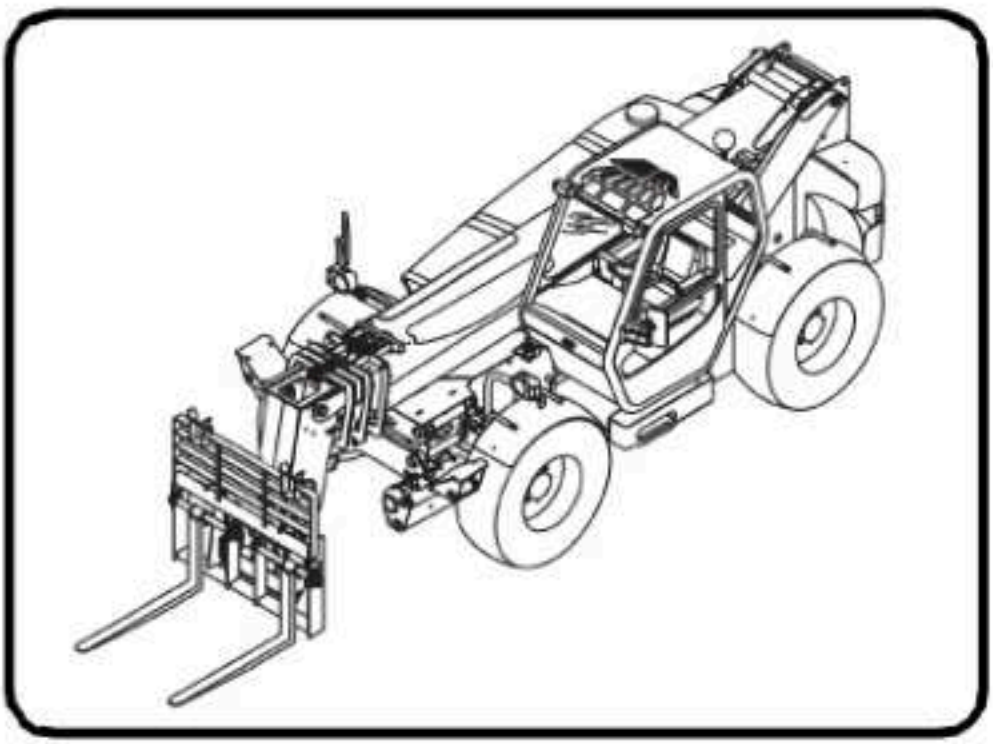
EN

Bobcat®

Operation & Maintenance Manual
T40170 Telescopic Handler

S/N A8GB13000 & Above



6989682-EN (02-10)

Printed in Belgium
Original Instructions

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REFERENCE INFORMATION

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

Telescopic Handler Serial Number _____

Engine Serial Number _____

NOTES:

_____

_____

_____

_____

YOUR BOBCAT DEALER:

_____

ADDRESS:

_____

PHONE:

_____

CE

Doosan Benelux SA
Drève 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 & maintenance of the Bobcat telescopic handler. READ AND UNDERSTAND THIS OPERATION & MAINTENANCE MANUAL BEFORE OPERATING YOUR BOBCAT TELESCOPIC HANDLER. If you have any questions, see your Bobcat dealer. This manual may illustrate options and accessories not installed on your telescopic handler.

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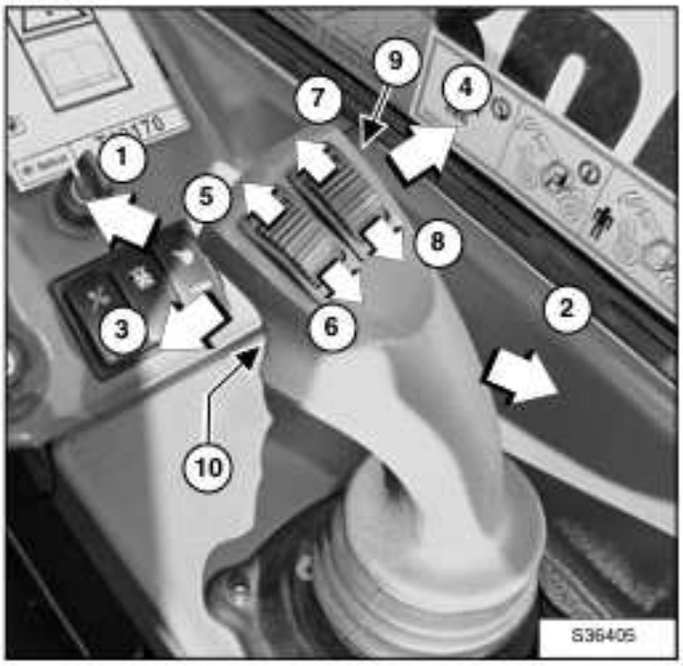
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HYDRAULIC CONTROLS

Hydraulic Control Lever (Joystick)

Figure 39



The Joystick controls the movement of the boom and attachment **[Figure 39]**.

1. Lower Boom
2. Raise Boom
3. Tilt Attachment Backward
4. Tilt Attachment Forward
5. Extend Telescopic Boom
6. Retract Telescopic Boom
7. Controls the function of the Front Auxiliary Hydraulics (Example: Close grapple teeth).
8. Controls the function of the Front Auxiliary Hydraulics (Example: Open grapple teeth).

The above Joystick functions (Items 1 thru 8) are proportional; The farther you move the control, the faster the hydraulic functions operate. Joystick functions (Item 7 and 8) are also used to operate the locking device for attachments. (See ATTACHMENTS on Page 66.)

9. Secondary Auxiliary Hydraulics (if equipped) - For momentary operation of the Secondary Auxiliary Hydraulics, press and hold button then turn thumbwheel (Items 7 and 8) to control an attachment function such as change the angle of the angle broom.

10. Detent Enable Button - This button must be pressed first before using the auxiliary switch button. This button prevents the auxiliary hydraulics from activating when starting the engine.

⚠ WARNING

AVOID INJURY OR DEATH

Diesel fuel or hydraulic fluid under pressure can penetrate skin or eyes, causing serious injury or death. Fluid leaks under pressure may not be visible. Use a piece of cardboard or wood to find leaks. Do not use your bare hand. Wear safety goggles. If fluid enters skin or eyes, get immediate medical attention from a physician familiar with this injury.

W-2072-0807

⚠ WARNING

AVOID BURNS

Hydraulic fluid, tubes, fittings and quick couplers can get hot when running machine and attachments. Be careful when connecting and disconnecting quick couplers.

W-2220-0396

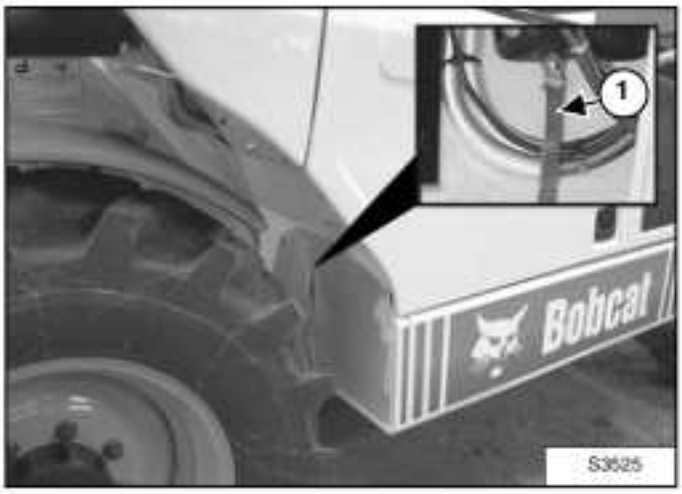
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Removing And Replacing Oil And Filter

See the SERVICE SCHEDULE for the service interval for replacing the engine oil and filter. (See SERVICE SCHEDULE on Page 87.)

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

Figure 99



Remove the access panel at the rear of the engine compartment. Route the hose (Item 1) **[Figure 99]** out through the access hole. Remove the cap.

Drain the oil into a container and recycle or dispose of used oil in an environmentally safe manner.

Install cap and put the drain hose into the engine compartment, install the access cover.

⚠ WARNING

AVOID INJURY OR DEATH

Always clean up spilled fuel or oil. Keep heat, flames, sparks or lighted tobacco away from fuel and oil. Failure to use care around combustibles can cause explosion or fire.

W-2103-0506

Figure 100



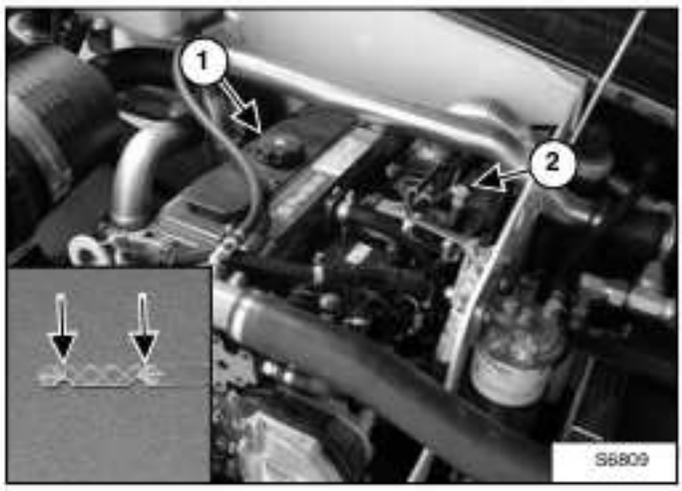
Open the engine cover. (See ENGINE COVER on Page 90.).

Remove the oil filter (Item 1) **[Figure 100]**.

Clean the filter housing surface.

Put clean oil on the new oil filter gasket. Install the filter and hand tighten.

Figure 101



Remove the filler cap (Item 1) **[Figure 101]**.

Put oil in the engine. For capacity, see "Fluid Capacities" on page 132. For type, "Lubricants, Fuel and Fluids" on page 9

Install fill cap, start the engine and let it run for several minutes.

Stop the engine, and check for leaks at the oil filter.

Remove the dipstick (Item 2) **[Figure 101]** and check the oil level. Add oil as needed if it is not at the top mark on the dipstick.

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(T40170) TELESCOPIC HANDLER SPECIFICATIONS (CONT'D)

Performance Specifications

Crowding force	11240 lbf. (5000 daN)
Drawbar pull	10791 lbf. (4800 daN)
Ground pressure on tyres	87 PSI (600 kPa)
Ground pressure on stabilisers	145 PSI (1000 kPa)
Rated capacity	8818 lb. (4000 kg)
Capacity (at max. height on stabilisers)	5512 lb. (2500 kg)
Capacity (at max. height on tyres)	2756 lb. (1250 kg)
Capacity (at max. reach on stabilisers)	1234.5 lb. (560 kg)
Capacity (at max. reach on tyres)	o lb. (0 kg)
Push force	10791 lbf. (4800 daN)
Tipping load	-
Lifting height - on stabilisers	686 in. (17430 mm)
Lifting height - on tyres	676 in. (17180 mm)
Max. reach on stabilisers	538 in. (13670 mm)
Max. reach on tyres	540 in. (13730 mm)
Banking corrector	4° / 4°
Sideshift (max.)	55 in. (1400 mm)

* Static and dynamic tests have been carried out and passed according to EN1459.

Weights

Weight (unladen)	24185 lb. (10970 kg)
Front axle weight unladen	10406 lb. (4720 kg)
Rear axle weight unladen	1378 lb. (625 kg)
Total weight with pallet frame and forks	22686 lb. (10290 kg)
Front axle weight with pallet frame and forks	11740 lb. (5325 kg)
Rear axle weight with pallet frame and forks	13151 lb. (5965 kg)
Total weight with pallet frame, forks and 7716 lb. (3500 kg) load	33709 lb. (15290 kg)
Front axle weight with pallet frame, forks and 7716 lb. (3500 kg) load	29531 lb. (13395 kg)
Rear axle weight with pallet frame, forks and 7716 lb. (3500 kg) load	4178 lb. (1895 kg)

Engine

Make / Model	PERKINS / 1104D-44TA Turbo
Fuel	Diesel
Cooling	Liquid
Rated power (DIN 6271) at 2200 RPM	100 HP (74.5 kW)
Rated speed	2200 RPM
Maximum torque at 1400 RPM	302.4 ft.-lbf. (410 Nm)
Number of cylinders	4
Displacement	1.16 Gal. (4.4 l)
Bore	4.1 in. (105 mm)
Stroke	5 in. (127 mm)
Ignition	Diesel-compression

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No-Text Safety Signs (Cont'd)

3. Falling Off Attachment (79523.7)

The safety sign is located on the boom head.



⚠ WARNING

Do not use the forks as lift for personnel or work platform.
Do not transport passengers.
Danger of serious injury or death from falling.

---

4. Lowering Attachment or Load (79524.5)

The safety sign is located on the boom head.



⚠ WARNING

Danger of serious injury or death from dropping or lowering an attachment or load.
Keep bystanders away.

---

5. Welding (92941.4)

The safety sign is located on both sides of the back of the machine.



⚠ WARNING

Read instructions before welding.

(See Welding And Grinding on Page 20.)

6. Electrocution (79526.0)

The safety sign is located at the back of the engine compartment.



⚠ WARNING

Danger of electrocution or explosion of the battery.

(See Electrical on Page 19.)

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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 operating the machine. Untrained operators can cause injury or death.

W-2001-0502

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 telescopic handler 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 co-ordination 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 and machine signs (decals).
- Check the rules and regulations at your location. The rules may include an employer's work safety requirements. For driving on public roads, the machine must be equipped as stipulated by the local regulations authorising operation on public roads in your specific country. 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 or structures 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 Rated Load Capacity of the machine (as indicated on the Load Capacity Charts). 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.
- Wear tight fitting clothing. Always wear safety glasses when doing maintenance or service. Safety glasses, respiratory equipment, hearing protection or Front Window Guard are required for some work See your Bobcat dealer about Bobcat Safety Equipment.

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